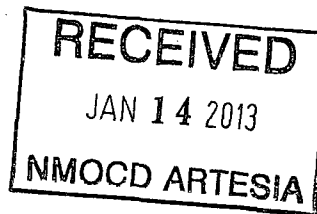


OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
LAYLA 35 MD FEE COM 1H
EDDY

STATE OF NEW MEXICO
DEVIATION REPORT

392	2.56
634	1.68
1,011	2.63
1,362	1.53
1,680	0.09
2,031	2.76
2,255	3.66
3,104	1.34
3,549	1.28
3,962	1.16
4,439	0.74
4,885	0.58
5,332	0.52



30-015-40210

STATE OF TEXAS

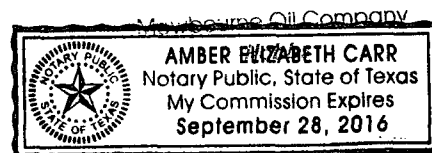
COUNTY OF MIDLAND

BY:

The foregoing instrument was acknowledged before me on
Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

Notary Public for Midland County, Texas
My Commission Expires:

Received
11/21/12, by
NOV 28 2012





Company: Mewbourne Oil Company
Lease/Well: Layla 35 MD Fee Com/No. 001H

Rig Name: Patterson
State/County: New Mexico/Eddy
Latitude: 32.25, Longitude: -104.07
GRID North is 0.14 Degrees East of True North
VS-Azi: 0.00 Degrees



RKB= : 23'

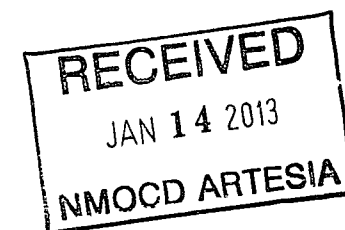
DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: survey.ut
Minimum Curvature Method
Report Date/Time: 11/26/2012 / 09:17

Vaughn Energy Services
Midland, Texas

432-563-5444

Surveyor: Logan Henry
Layla 35 MD Fee Com No. 001H



Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.45	4.87	100.00	0.39	0.03	0.39	0.39	4.87	0.45
200.00	0.94	339.49	199.99	1.55	-0.22	1.55	1.57	351.91	0.57
300.00	1.27	291.18	299.97	2.72	-1.54	2.72	3.13	330.45	0.95
400.00	1.74	260.41	399.94	2.87	-4.07	2.87	4.98	305.17	0.92
500.00	1.68	255.01	499.90	2.24	-6.98	2.24	7.33	287.75	0.17
600.00	1.77	235.28	599.85	0.97	-9.68	0.97	9.73	275.75	0.60
700.00	2.05	234.20	699.80	-0.95	-12.40	-0.95	12.44	265.60	0.28
800.00	1.46	220.43	799.75	-2.97	-14.68	-2.97	14.97	258.55	0.72
900.00	1.52	214.98	899.72	-5.03	-16.26	-5.03	17.02	252.82	0.15
1000.00	1.41	213.75	999.68	-7.13	-17.70	-7.13	19.09	248.06	0.12
1100.00	1.35	207.79	1099.65	-9.19	-18.93	-9.19	21.05	244.10	0.15
1200.00	1.50	207.52	1199.62	-11.40	-20.09	-11.40	23.10	240.43	0.16
1300.00	1.76	221.29	1299.58	-13.72	-21.71	-13.72	25.68	237.71	0.47
1400.00	1.34	225.01	1399.55	-15.70	-23.56	-15.70	28.31	236.31	0.43
1500.00	1.16	237.53	1499.52	-17.08	-25.24	-17.08	30.47	235.92	0.33
1600.00	0.72	270.99	1599.51	-17.61	-26.72	-17.61	32.00	236.62	0.68
1700.00	0.17	309.11	1699.51	-17.50	-27.46	-17.50	32.57	237.49	0.59
1800.00	1.15	83.40	1799.50	-17.29	-26.59	-17.29	31.71	236.96	1.27

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	3.14	94.34	1899.43	-17.38	-22.86	-17.38	28.72	232.75	2.02
2000.00	3.20	98.14	1999.27	-17.99	-17.37	-17.99	25.00	224.00	0.22
2100.00	3.41	111.79	2099.11	-19.49	-11.84	-19.49	22.80	211.28	0.81
2200.00	3.30	111.50	2198.94	-21.65	-6.40	-21.65	22.57	196.46	0.12
2300.00	3.77	116.95	2298.75	-24.19	-0.79	-24.19	24.20	181.87	0.58
2400.00	3.97	118.52	2398.52	-27.33	5.18	-27.33	27.82	169.27	0.23
2500.00	2.66	112.94	2498.35	-29.89	10.36	-29.89	31.63	160.88	1.35
2600.00	2.45	124.09	2598.25	-31.99	14.27	-31.99	35.03	155.96	0.54
2700.00	2.33	121.45	2698.16	-34.25	17.78	-34.25	38.59	152.57	0.16
2800.00	2.07	124.56	2798.09	-36.34	21.00	-36.34	41.97	149.98	0.29
2900.00	1.96	123.59	2898.03	-38.31	23.91	-38.31	45.16	148.03	0.12
3000.00	1.31	119.91	2997.99	-39.82	26.33	-39.82	47.74	146.53	0.65
3100.00	1.86	136.39	3097.95	-41.57	28.44	-41.57	50.36	145.62	0.70
3200.00	1.79	141.89	3197.90	-43.97	30.52	-43.97	53.52	145.24	0.19
3300.00	1.71	148.02	3297.85	-46.46	32.27	-46.46	56.57	145.22	0.20
3400.00	1.41	162.51	3397.81	-48.90	33.43	-48.90	59.24	145.64	0.49
3500.00	0.83	166.13	3497.79	-50.78	33.98	-50.78	61.10	146.21	0.59
3600.00	0.74	159.61	3597.78	-52.09	34.37	-52.09	62.41	146.58	0.13
3700.00	1.21	157.63	3697.77	-53.67	35.00	-53.67	64.08	146.89	0.47
3800.00	1.23	150.89	3797.75	-55.59	35.93	-55.59	66.19	147.13	0.14
3900.00	0.79	139.33	3897.73	-57.05	36.90	-57.05	67.94	147.11	0.49
4000.00	0.74	145.48	3997.72	-58.10	37.71	-58.10	69.27	147.01	0.10
4100.00	0.77	146.31	4097.71	-59.19	38.45	-59.19	70.58	146.99	0.04
4200.00	0.41	151.07	4197.71	-60.06	38.99	-60.06	71.61	147.01	0.37
4300.00	0.80	153.05	4297.70	-61.00	39.48	-61.00	72.66	147.09	0.39
4400.00	0.61	150.95	4397.70	-62.08	40.06	-62.08	73.88	147.17	0.19
4500.00	0.53	181.03	4497.69	-63.01	40.30	-63.01	74.80	147.39	0.30
4600.00	0.89	187.44	4597.68	-64.25	40.19	-64.25	75.78	147.97	0.37
4700.00	1.17	167.61	4697.67	-66.01	40.31	-66.01	77.35	148.59	0.45
4800.00	0.81	203.59	4797.65	-67.65	40.25	-67.65	78.72	149.25	0.70
4900.00	0.81	205.18	4897.64	-68.94	39.67	-68.94	79.53	150.08	0.02
5000.00	1.17	211.88	4997.63	-70.44	38.83	-70.44	80.43	151.13	0.37
5100.00	1.05	205.46	5097.61	-72.13	37.90	-72.13	81.48	152.28	0.17
5200.00	0.56	209.24	5197.60	-73.38	37.27	-73.38	82.30	153.08	0.49
5300.00	0.86	238.10	5297.59	-74.21	36.39	-74.21	82.65	153.88	0.46
5400.00	1.24	236.55	5397.57	-75.20	34.85	-75.20	82.88	155.14	0.38
5480.00	1.06	227.79	5477.56	-76.18	33.58	-76.18	83.25	156.21	0.31

Mewbourne Oil Co

Eddy County, New Mexico

Sec 35 23W-28E

Layla 35 MD Fee Com #1H

Wellbore #1

Survey: MWD

DDC Survey Report

30 November, 2012



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Layla 35 MD Fee Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL3021'+20'KB @ 3041.0usft (Patterson UTI Rig)
Site:	Sec 35 23W-28E	MD Reference:	GL3021'+20'KB @ 3041.0usft (Patterson UTI Rig)
Well:	Layla 35 MD Fee 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	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec 35 23W-28E		
Site Position:		Northing:	461,407.18 usft
From:	Map	Easting:	584,793.84 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 5.618 N
		Longitude:	104° 3' 32.396 W
		Grid Convergence:	0.15 °

Well	Layla 35 MD Fee Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	456,634.34 usft	Latitude:	32° 15' 18.431 N
	+E/-W	0.0 usft	Easting:	582,967.23 usft	Longitude:	104° 3' 53.810 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,021.0 usft

Wellbore	Wellbore #1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/8/2012	7.64	60.10	48,443

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	0.45

Survey Program	Date	11/30/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	5,480.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
5,597.0	10,636.0	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)
TIE IN @ 5480' MD / 5478' TVD										
	5,480.0	1.06	227.79	5,477.6	-76.2	33.6	-75.9	0.00	0.00	0.00
	5,597.0	0.70	245.00	5,594.5	-77.2	32.1	-77.0	0.38	-0.31	14.71
	5,628.0	1.40	343.20	5,625.5	-76.9	31.9	-76.7	5.33	2.26	316.77
	5,660.0	5.20	355.00	5,657.5	-75.1	31.6	-74.9	12.00	11.88	36.88
	5,691.0	9.10	357.00	5,688.2	-71.3	31.4	-71.0	12.60	12.58	6.45
	5,723.0	12.40	356.10	5,719.7	-65.3	31.0	-65.1	10.33	10.31	-2.81
	5,755.0	15.40	354.50	5,750.7	-57.6	30.4	-57.4	9.45	9.38	-5.00

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Layla 35 MD Fee Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL3021'+20'KB @ 3041.0usft (Patterson UTI Rig)
Site:	Sec 35 23W-28E	MD Reference:	GL3021'+20'KB @ 3041.0usft (Patterson UTI Rig)
Well:	Layla 35 MD Fee 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)
5,787.0	18.10	353.60	5,781.4	-48.5	29.4	-48.2	8.48	8.44	-2.81
5,819.0	21.10	353.40	5,811.5	-37.8	28.2	-37.6	9.38	9.38	-0.63
5,850.0	24.20	354.70	5,840.1	-25.9	27.0	-25.7	10.13	10.00	4.19
5,882.0	27.10	358.00	5,869.0	-12.1	26.1	-11.9	10.10	9.06	10.31
CROSSED HARD LINE @ 5898' MD / 5883' TVD									
5,898.2	28.23	0.49	5,883.3	-4.6	26.0	-4.4	9.97	6.98	15.35
5,913.0	29.30	2.60	5,896.3	2.5	26.2	2.7	9.97	7.23	14.28
5,945.0	31.70	2.40	5,923.9	18.7	26.9	19.0	7.51	7.50	-0.63
5,976.0	33.30	2.10	5,950.0	35.4	27.6	35.6	5.19	5.16	-0.97
6,007.0	35.70	1.50	5,975.5	52.9	28.1	53.2	7.82	7.74	-1.94
6,039.0	39.70	1.50	6,000.9	72.5	28.6	72.7	12.50	12.50	0.00
6,071.0	43.60	1.70	6,024.8	93.7	29.2	94.0	12.19	12.19	0.63
6,103.0	46.30	0.50	6,047.4	116.3	29.6	116.6	8.84	8.44	-3.75
6,135.0	50.10	359.90	6,068.7	140.2	29.7	140.4	11.96	11.88	-1.88
6,167.0	53.90	359.20	6,088.4	165.4	29.5	165.6	12.00	11.88	-2.19
6,199.0	56.90	358.90	6,106.6	191.7	29.1	192.0	9.41	9.38	-0.94
6,230.0	59.40	359.20	6,123.0	218.1	28.6	218.3	8.11	8.06	0.97
6,262.0	62.80	0.10	6,138.4	246.1	28.5	246.3	10.91	10.63	2.81
6,292.0	66.20	359.90	6,151.3	273.2	28.5	273.4	11.35	11.33	-0.67
6,324.0	68.90	358.90	6,163.6	302.7	28.2	302.9	8.92	8.44	-3.13
6,356.0	71.90	358.50	6,174.3	332.9	27.5	333.1	9.45	9.38	-1.25
6,388.0	74.60	358.50	6,183.5	363.5	26.7	363.7	8.44	8.44	0.00
6,420.0	76.70	358.90	6,191.4	394.5	26.0	394.7	6.67	6.56	1.25
6,452.0	79.10	359.40	6,198.1	425.8	25.5	425.9	7.65	7.50	1.56
6,484.0	82.80	0.60	6,203.2	457.4	25.5	457.5	12.14	11.56	3.75
6,511.0	86.80	1.00	6,205.6	484.2	25.9	484.4	14.89	14.81	1.48
6,583.0	88.60	1.00	6,208.5	556.2	27.1	556.4	2.50	2.50	0.00
6,615.0	88.50	1.70	6,209.3	588.1	27.9	588.3	2.21	-0.31	2.19
6,679.0	89.90	2.60	6,210.2	652.1	30.3	652.3	2.60	2.19	1.41
6,711.0	90.00	2.60	6,210.2	684.1	31.8	684.3	0.31	0.31	0.00
6,743.0	89.20	1.20	6,210.5	716.0	32.8	716.3	5.04	-2.50	-4.38
6,774.0	88.90	1.50	6,211.0	747.0	33.5	747.3	1.37	-0.97	0.97
6,806.0	89.00	1.30	6,211.6	779.0	34.3	779.3	0.70	0.31	-0.63
6,838.0	88.70	1.70	6,212.2	811.0	35.2	811.2	1.56	-0.94	1.25
6,870.0	87.70	0.60	6,213.2	843.0	35.8	843.2	4.64	-3.13	-3.44
6,901.0	85.90	359.60	6,214.9	873.9	35.9	874.2	6.64	-5.81	-3.23
6,933.0	85.80	359.60	6,217.3	905.8	35.6	906.1	0.31	-0.31	0.00
6,965.0	87.70	0.10	6,219.1	937.8	35.6	938.0	6.14	5.94	1.56
6,997.0	87.30	359.60	6,220.5	969.8	35.5	970.0	2.00	-1.25	-1.56
7,061.0	89.20	0.30	6,222.4	1,033.7	35.4	1,034.0	3.16	2.97	1.09
7,124.0	88.50	359.90	6,223.7	1,096.7	35.5	1,096.9	1.28	-1.11	-0.63
7,187.0	90.90	0.80	6,224.0	1,159.7	35.9	1,159.9	4.07	3.81	1.43

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Layla 35 MD Fee Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL3021'+20'KB @ 3041.0usft (Patterson UTI Rig)
Site:	Sec 35 23W-28E	MD Reference:	GL3021'+20'KB @ 3041.0usft (Patterson UTI Rig)
Well:	Layla 35 MD Fee 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)
7,251.0	90.20	0.50	6,223.4	1,223.7	36.6	1,223.9	1.19	-1.09	-0.47
7,315.0	88.70	0.50	6,224.0	1,287.7	37.2	1,287.9	2.34	-2.34	0.00
7,377.0	88.10	359.40	6,225.8	1,349.7	37.1	1,349.9	2.02	-0.97	-1.77
7,441.0	88.50	359.60	6,227.7	1,413.6	36.6	1,413.9	0.70	0.63	0.31
7,504.0	89.70	0.60	6,228.6	1,476.6	36.7	1,476.9	2.48	1.90	1.59
7,568.0	89.50	0.60	6,229.1	1,540.6	37.4	1,540.9	0.31	-0.31	0.00
7,631.0	88.90	0.50	6,230.0	1,603.6	38.0	1,603.9	0.97	-0.95	-0.16
7,695.0	88.70	359.80	6,231.3	1,667.6	38.1	1,667.8	1.14	-0.31	-1.09
7,759.0	90.00	359.90	6,232.0	1,731.6	38.0	1,731.8	2.04	2.03	0.16
7,823.0	90.70	0.80	6,231.6	1,795.6	38.4	1,795.8	1.78	1.09	1.41
7,886.0	91.50	0.50	6,230.4	1,858.6	39.1	1,858.8	1.36	1.27	-0.48
7,949.0	91.00	1.00	6,229.1	1,921.5	39.9	1,921.8	1.12	-0.79	0.79
8,012.0	91.20	1.50	6,227.9	1,984.5	41.3	1,984.8	0.85	0.32	0.79
8,075.0	90.70	2.60	6,226.8	2,047.5	43.5	2,047.7	1.92	-0.79	1.75
8,139.0	90.20	2.10	6,226.3	2,111.4	46.1	2,111.7	1.10	-0.78	-0.78
8,203.0	88.20	1.70	6,227.2	2,175.4	48.3	2,175.7	3.19	-3.13	-0.63
8,266.0	88.40	1.00	6,229.1	2,238.3	49.8	2,238.6	1.16	0.32	-1.11
8,329.0	88.80	1.90	6,230.6	2,301.3	51.3	2,301.6	1.56	0.63	1.43
8,392.0	89.30	2.20	6,231.7	2,364.2	53.6	2,364.6	0.93	0.79	0.48
8,456.0	87.70	1.90	6,233.3	2,428.2	55.9	2,428.5	2.54	-2.50	-0.47
8,520.0	89.30	2.90	6,235.0	2,492.1	58.6	2,492.5	2.95	2.50	1.56
8,583.0	89.60	3.60	6,235.6	2,555.0	62.1	2,555.4	1.21	0.48	1.11
8,647.0	88.40	1.20	6,236.7	2,618.9	64.8	2,619.3	4.19	-1.88	-3.75
8,711.0	88.30	0.30	6,238.6	2,682.9	65.7	2,683.3	1.41	-0.16	-1.41
8,774.0	90.40	2.10	6,239.3	2,745.8	67.0	2,746.3	4.39	3.33	2.86
8,838.0	90.70	2.10	6,238.7	2,809.8	69.3	2,810.3	0.47	0.47	0.00
8,901.0	91.90	2.90	6,237.2	2,872.7	72.1	2,873.2	2.29	1.90	1.27
8,965.0	90.20	1.30	6,236.1	2,936.7	74.4	2,937.2	3.65	-2.66	-2.50
9,029.0	90.00	2.20	6,236.0	3,000.6	76.4	3,001.1	1.44	-0.31	1.41
9,092.0	89.70	0.50	6,236.1	3,063.6	77.8	3,064.1	2.74	-0.48	-2.70
9,156.0	88.10	357.80	6,237.3	3,127.6	76.9	3,128.1	4.90	-2.50	-4.22
9,220.0	86.70	356.60	6,240.2	3,191.4	73.8	3,191.9	2.88	-2.19	-1.88
9,283.0	88.30	356.40	6,243.0	3,254.3	69.9	3,254.7	2.56	2.54	-0.32
9,315.0	87.30	356.60	6,244.2	3,286.2	68.0	3,286.6	3.19	-3.13	0.63
9,347.0	87.00	356.30	6,245.8	3,318.1	66.0	3,318.5	1.33	-0.94	-0.94
9,379.0	89.70	356.80	6,246.7	3,350.0	64.1	3,350.4	8.58	8.44	1.56
9,410.0	92.30	358.90	6,246.2	3,381.0	62.9	3,381.4	10.78	8.39	6.77
9,442.0	92.10	359.10	6,245.0	3,412.9	62.4	3,413.3	0.88	-0.63	0.63
9,474.0	91.80	358.70	6,243.9	3,444.9	61.7	3,445.3	1.56	-0.94	-1.25
9,506.0	90.90	358.70	6,243.1	3,476.9	61.0	3,477.3	2.81	-2.81	0.00
9,538.0	90.70	358.70	6,242.7	3,508.9	60.3	3,509.3	0.63	-0.63	0.00
9,601.0	90.70	358.40	6,241.9	3,571.9	58.7	3,572.2	0.48	0.00	-0.48

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Layla 35 MD Fee Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL3021'+20'KB @ 3041.0usft (Patterson UTI Rig)
Site:	Sec 35 23W-28E	MD Reference:	GL3021'+20'KB @ 3041.0usft (Patterson UTI Rig)
Well:	Layla 35 MD Fee 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)
9,664.0	90.50	358.00	6,241.3	3,634.8	56.7	3,635.2	0.71	-0.32	-0.63
9,728.0	88.60	356.40	6,241.8	3,698.8	53.6	3,699.1	3.88	-2.97	-2.50
9,792.0	89.00	356.60	6,243.1	3,762.6	49.7	3,762.9	0.70	0.63	0.31
9,856.0	89.00	356.60	6,244.2	3,826.5	45.9	3,826.7	0.00	0.00	0.00
9,918.0	89.20	355.20	6,245.2	3,888.3	41.5	3,888.5	2.28	0.32	-2.26
9,982.0	88.60	355.20	6,246.4	3,952.1	36.1	3,952.3	0.94	-0.94	0.00
10,045.0	90.00	355.90	6,247.2	4,014.9	31.2	4,015.0	2.48	2.22	1.11
10,109.0	91.50	357.10	6,246.3	4,078.8	27.3	4,078.9	3.00	2.34	1.88
10,172.0	91.90	358.70	6,244.5	4,141.7	25.0	4,141.8	2.62	0.63	2.54
10,236.0	93.00	359.60	6,241.7	4,205.6	24.1	4,205.7	2.22	1.72	1.41
10,300.0	91.90	2.40	6,239.0	4,269.6	25.2	4,269.6	4.70	-1.72	4.38
10,363.0	91.70	3.10	6,237.0	4,332.4	28.2	4,332.5	1.16	-0.32	1.11
10,427.0	87.40	3.50	6,237.5	4,396.3	31.9	4,396.4	6.75	-6.72	0.63
10,489.0	86.90	3.80	6,240.6	4,458.1	35.8	4,458.3	0.94	-0.81	0.48
10,552.0	87.10	3.80	6,243.9	4,520.9	40.0	4,521.1	0.32	0.32	0.00
10,584.0	88.20	4.20	6,245.2	4,552.8	42.2	4,553.0	3.66	3.44	1.25
TD @ 10636' MD / 6247' TVD									
10,636.0	88.20	4.20	6,246.9	4,604.6	46.0	4,604.8	0.00	0.00	0.00

Survey Annotations

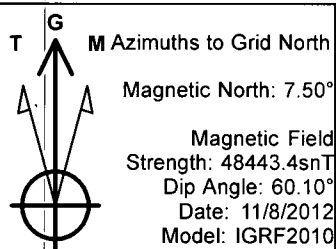
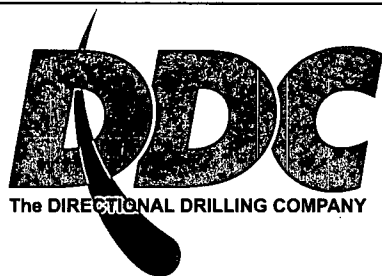
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,480.0	5,477.6	-76.2	33.6	TIE IN @ 5480' MD / 5478' TVD
5,898.2	5,883.3	-4.6	26.0	CROSSED HARD LINE @ 5898' MD / 5883' TVD
10,636.0	6,246.9	4,604.6	46.0	TD @ 10636' MD / 6247' TVD

Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
Layla 35 MD Fee Com #1H
Eddy County, New Mexico
Rig: Patterson UTI Rig
Created By: Dina Chance
Date: 11/30/2012

Layla 35 MD Fee Com #1H
Eddy County, New Mexico
Q120205 & WT-12848
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 MD Fee Com #1H

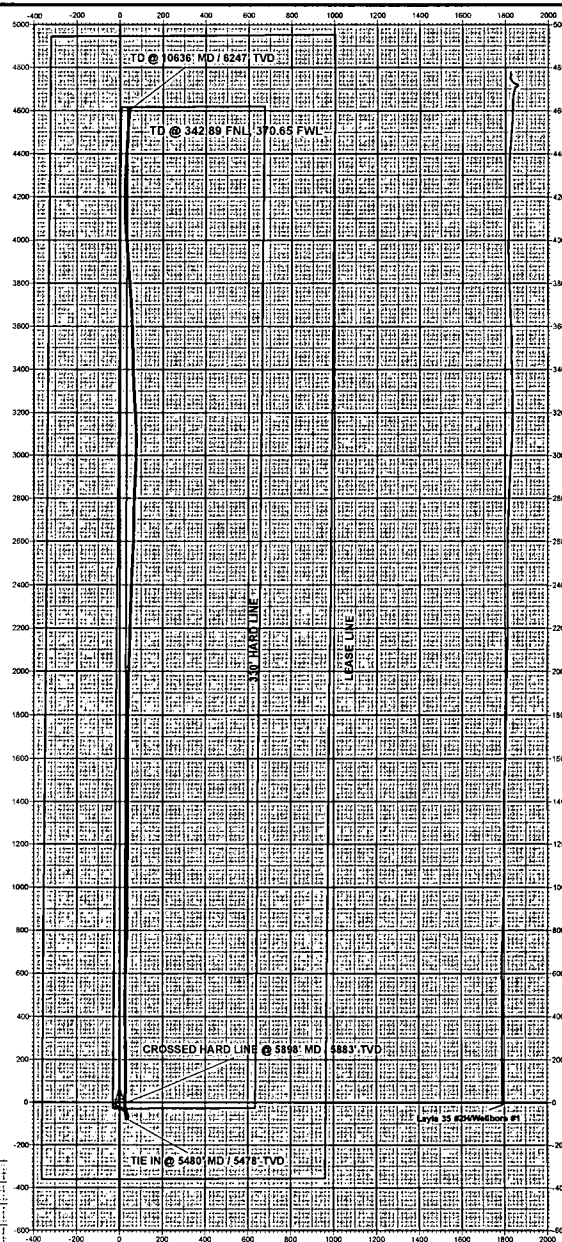
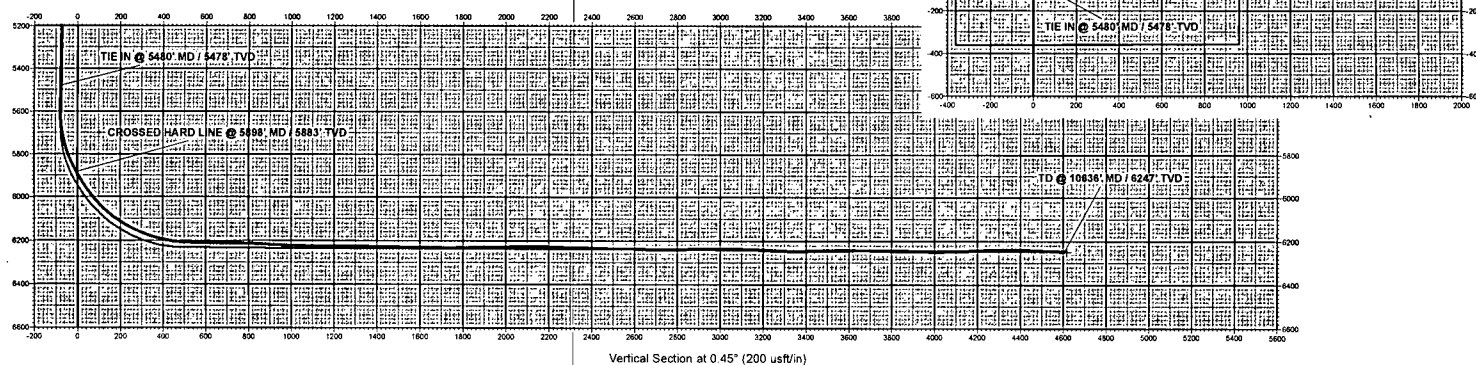
Ground Level:		3021.0	
North	East	Latitude	Longitude
456634.34	582967.23	32° 15' 18.431 N	104° 3' 53.810 W

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	North	East	Latitude	Longitude
Layla 35 MD Fee Com #1H	5245.0	4616.9	35.9	461251.26	583003.10	32° 15' 4.120 N	104° 3' 53.258 W

ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation
5480.0	1.06	227.79	5477.6	-76.2	35.6	-76.9	141.9	TIE IN @ 5480' MD / 5478' TVD
5898.2	28.23	0.49	5893.3	-4.6	26.0	-4.4	217.0	CROSSED HARD LINE @ 5898' MD / 5893' TVD
10636.0	88.20	4.30	6246.9	4604.6	46.0	4604.6	4629.3	TD @ 10636' MD / 6247' TVD



Operating Company Mewbourne
 Well Name & Number Layla 35 MD Fee COM #1H
 Sales Ticket Number 5125201
 Date 11/28/2012

Company Rep George Berryman
 Field
 BOT Service Rep John Davis
 District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	6,563.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,244.03	12,410	10,680
Bott Liner										

TVD	6,245.20	KOP	5,608.00	Open Hole	6.125	Casing Vol. (bbl)	242.8
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Carry Fluid Weight (ppg)	8.4	Propant Content (ppa)		Max Drill Out Size	0
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	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
Liner Top	1	JR Setting Sleeve_RH Profile	6345.97							

20		JR Sleeve_S3 Hyd Set Packer	6345.97	8.64	5.813	3.875				
		4-1/2-13.5 LTC Nipple	6354.61	8.10	5.000	3.920				
		8 Joints of 4-1/2-13.5 LTC Casing	6362.71	355.39	5.000	3.920				
	20	3.625 EX Frac Sleeve	6718.10	3.90	5.750		3.525	2286	310	243
		3 Joint of 4-1/2-13.5 LTC Casing	6722.00	135.63	5.000	3.920				
19		Baker Open Hole Packer	6857.63	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	6861.52	135.69	5.000	3.920				
	19	3.500 EX Frac Sleeve	6997.21	3.90	5.750		3.400	2286	289	243
		2 Joint of 4-1/2-13.5 LTC Casing	7001.11	90.68	5.000	3.920				
		Baker Open Hole Packer	7091.79	3.89	5.820	3.875		2154		
18		2 Joints of 4-1/2-13.5 LTC Casing	7095.68	90.58	5.000	3.920				
	18	3.375 EX Frac Sleeve	7186.26	3.90	5.750		3.275	2286	268	243
		2 Joint of 4-1/2-13.5 LTC Casing	7190.16	90.63	5.000	3.920				
		Baker Open Hole Packer	7280.79	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	7284.68	90.33	5.000	3.920				
17	17	3.250 EX Frac Sleeve	7375.01	3.90	5.750		3.150	2286	248	243
		2 Joint of 4-1/2-13.5 LTC Casing	7378.91	90.65	5.000	3.920				
		Baker Open Hole Packer	7469.56	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	7473.45	90.63	5.000	3.920				
	16	3.125 EX Frac Sleeve	7564.08	3.90	5.750		3.025	2286	228	243
16		2 Joints of 4-1/2-13.5 LTC Casing	7567.98	90.75	5.000	3.920				
		Baker Open Hole Packer	7658.73	3.89	5.820	3.875		2154		

Operating Company Mewbourne
 Well Name & Number Layla 35 MD Fee COM #1H
 Sales Ticket Number 5125201
 Date 11/28/2012

Company Rep George Berryman
 Field
 BOT Service Rep John Davis
 District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	6,563.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,244.03	12,410	10,680
Bott Liner										

TVD	6,245.20	KOP	5,608.00	Open Hole	6.125	Casing Vol. (bbl)	242.8
Carry Fluid Weight (ppg)	8.4	Propant Content (ppa)				Max Drill Out Size	0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
15		2 Joints of 4-1/2-13.5 LTC Casing	7662.62	90.66	5.000	3.920				
	15	3.000 EX Frac sleeve	7753.28	3.90	5.750		2.900	2286	210	243
		2 Joint of 4-1/2-13.5 LTC Casing	7757.18	90.72	5.000	3.920				
		Baker Open Hole Packer	7847.90	3.89	5.820	3.875		2154		
14		2 Joints of 4-1/2-13.5 LTC Casing	7851.79	90.58	5.000	3.920				
	14	2.875 EX Frac Sleeve	7942.37	3.90	5.750		2.775	2286	192	243
		2 Joints of 4-1/2-13.5 LTC Casing	7946.27	90.60	5.000	3.920				
		Baker Open Hole Packer	8036.87	3.89	5.820	3.875		2154		
13		2 Joints of 4-1/2-13.5 LTC Casing	8040.76	90.32	5.000	3.920				
	13	2.750 EX Frac Sleeve	8131.08	3.90	5.750		2.650	2286	175	243
		2 Joint of 4-1/2-13.5 LTC Casing	8134.98	90.41	5.000	3.920				
		Baker Open Hole Packer	8225.39	3.89	5.820	3.875		2154		
12		2 Joints of 4-1/2-13.5 LTC Casing	8229.28	90.33	5.000	3.920				
	12	2.625 EX Frac Sleeve	8319.61	3.90	5.750		2.525	2286	159	243
		2 Joints of 4-1/2-13.5 LTC Casing	8323.51	90.63	5.000	3.920				
		Baker Open Hole Packer	8414.14	3.89	5.820	3.875		2154		
11		2 Joints of 4-1/2-13.5 LTC Casing	8418.03	90.62	5.000	3.920				
	11	2.500 EX Frac Sleeve	8508.65	3.90	5.750		2.400	2286	144	243
		2 Joint of 4-1/2-13.5 LTC Casing	8512.55	90.60	5.000	3.920				
		Baker Open Hole Packer	8603.15	3.89	5.820	3.875		2154		
10		3 Joints of 4-1/2-13.5 LTC Casing	8607.04	135.97	5.000	3.920				
	10	2.375 EX Frac Sleeve	8743.01	3.90	5.750		2.275	2286	129	243
		2 Joints of 4-1/2-13.5 LTC Casing	8746.91	90.66	5.000	3.920				
		Baker Open Hole Packer	8837.57	3.89	5.820	3.875		2154		
9		2 Joint of 4-1/2-13.5 LTC Casing	8841.46	90.60	5.000	3.920				
	9	2.250 EX Frac Sleeve	8932.06	3.90	5.750		2.150	2286	115	243

Operating Company Mewbourne
 Well Name & Number Layla 35 MD Fee COM #1H
 Sales Ticket Number 5125201
 Date 11/28/2012

Company Rep George Berryman
 Field
 BOT Service Rep John Davis
 District Location Odessa, Texas, USA

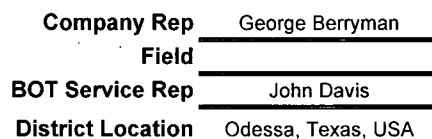


	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	6,563.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,244.03	12,410	10,680
Bott Liner										

TVD	6,245.20	KOP	5,608.00	Open Hole	6.125	Casing Vol. (bbl)	242.8
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Carry Fluid Weight (ppg)	8.4	Propan Content (ppa)		Max Drill Out Size	0
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	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
8		2 Joints of 4-1/2-13.5 LTC Casing	8935.96	90.64	5.000	3.920				
		Baker Open Hole Packer	9026.60	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	9030.49	90.57	5.000	3.920				
	8	2.125 EX Frac Sleeve	9121.06	3.90	5.750		2.025	2286	102	243
7		3 Joints of 4-1/2-13.5 LTC Casing	9124.96	135.65	5.000	3.920				
		Baker Open Hole Packer	9260.61	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	9264.50	90.67	5.000	3.920				
	7	2.000 EX Frac Sleeve	9355.17	3.90	5.750		1.900	2286	90	243
6		3 Joints of 4-1/2-13.5 LTC Casing	9359.07	135.96	5.000	3.920				
		Baker Open Hole Packer	9495.03	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	9498.92	89.73	5.000	3.920				
	6	1.875 EX Frac Sleeve	9588.65	3.90	5.750		1.775	2286	79	243
5		2 Joints of 4-1/2-13.5 LTC Casing	9592.55	90.32	5.000	3.920				
		Baker Open Hole Packer	9682.87	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9686.76	90.65	5.000	3.920				
	5	1.750 EX Frac Sleeve	9777.41	3.90	5.750		1.650	2286	68	243
4		2 Joint of 4-1/2-13.5 LTC Casing	9781.31	90.74	5.000	3.920				
		Baker Open Hole Packer	9872.05	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9875.94	90.36	5.000	3.920				
	4	1.625 EX Frac Sleeve	9966.30	3.90	5.750		1.525	2286	58	243
3		2 Joints of 4-1/2-13.5 LTC Casing	9970.20	89.96	5.000	3.920				
		Baker Open Hole Packer	10060.16	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	10064.05	90.68	5.000	3.920				
	3	1.500 DBL Ball Frac Sleeve	10154.73	3.90	5.750		1.400	2286	49	243
		3 Joint of 4-1/2-13.5 LTC Casing	10158.63	135.93	5.000	3.920				
		Baker Open Hole Packer	10294.56	3.89	5.820	3.875		2154		



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	6,563.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,244.03	12,410	10,680	
Bott Liner											
TVD		6,245.20		KOP		5,608.00		Open Hole	6.125	Casing Vol. (bbl)	242.8
Carry Fluid Weight (ppg)			8.4		Propant Content (ppa)				Max Drill Out Size		0

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