

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
LAYLA 35 OB FEE COM 001H
EDDY

041-0109

STATE OF NEW MEXICO
DEVIATION REPORT

30-015-40968

257	1.26
556	0.82
964	3.12
1,067	4.57
1,156	3.90
1,251	2.67
1,377	2.83
1,503	1.86
1,629	1.84
1,755	0.57
2,164	2.67
2,573	2.50
2,732	3.63
2,953	2.41
3,363	2.90
3,773	2.34
4,182	0.54
4,592	1.26
5,003	0.89
5,476	0.69
5,980	0.28
6,390	1.66
6,801	2.86
7,054	3.68
7,387	4.81



STATE OF TEXAS

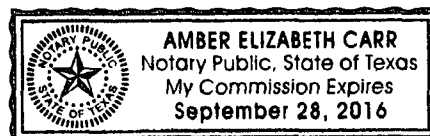
BY: Steve Moore

COUNTY OF MIDLAND

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

5/6/13, by

Amber Elizabeth Carr
Notary Public for Midland County, Texas
My Commission Expires:





Job Number: SVMO-130232
 Company: Mewbourne Oil & Gas
 Lease/Well: Layla 35 OB Fee Com 001H
 Location: Eddy County, NM
 Rig Name: Patterson #41
 RKB: 16'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.47°
 Grid: East To Grid North
 File name: F:\SURVEY\2013SU-1\MEWBOU-1\MO\LAYLA3-1\001H.SVY
 Date/Time: 17-Apr-13 / 15:46
 Curve Name: Surface - 7700' M.D. (Rate Gyro)

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead



Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.74	272.35	100.00	.03	-.65	.03	.65	272.35	.74
200.00	1.39	291.27	199.98	.49	-2.42	.49	2.47	281.51	.73
300.00	1.79	295.72	299.94	1.61	-4.96	1.61	5.21	288.00	.42
400.00	2.15	294.78	399.88	3.07	-8.07	3.07	8.63	290.86	.36
500.00	2.96	290.89	499.78	4.78	-12.18	4.78	13.09	291.43	.83
600.00	3.28	289.81	599.63	6.67	-17.29	6.67	18.53	291.10	.33
700.00	3.41	292.79	699.46	8.79	-22.72	8.79	24.36	291.16	.22
800.00	3.27	299.44	799.29	11.35	-27.95	11.35	30.16	292.10	.41
900.00	3.66	304.36	899.11	14.55	-33.06	14.55	36.12	293.75	.49

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1000.00	3.84	303.83	998.90	18.22	-38.48	18.22	42.58	295.33	.18
1100.00	3.80	300.33	1098.67	21.75	-44.12	21.75	49.19	296.24	.24
1200.00	3.17	297.36	1198.49	24.70	-49.44	24.70	55.26	296.54	.66
1300.00	2.64	299.34	1298.36	27.10	-53.90	27.10	60.33	296.69	.54
1400.00	2.09	305.81	1398.27	29.29	-57.39	29.29	64.43	297.04	.61
1500.00	1.96	309.02	1498.21	31.44	-60.20	31.44	67.91	297.57	.17
1600.00	1.69	306.19	1598.16	33.38	-62.71	33.38	71.05	298.03	.28
1700.00	1.42	305.49	1698.12	34.97	-64.91	34.97	73.74	298.31	.27
1800.00	.49	14.31	1798.11	36.11	-65.82	36.11	75.07	298.75	1.32
1900.00	1.58	104.01	1898.10	36.19	-64.37	36.19	73.85	299.34	1.65
2000.00	2.39	104.87	1998.04	35.32	-61.02	35.32	70.50	300.06	.81
2100.00	2.60	111.72	2097.94	33.94	-56.90	33.94	66.25	300.82	.36
2200.00	3.86	113.66	2197.78	31.75	-51.71	31.75	60.68	301.55	1.26
2300.00	4.99	112.00	2297.48	28.77	-44.59	28.77	53.07	302.83	1.14
2400.00	5.99	108.15	2397.02	25.52	-35.60	25.52	43.80	305.63	1.07
2500.00	5.68	106.24	2496.50	22.51	-25.89	22.51	34.31	311.00	.37
2600.00	4.44	109.27	2596.11	19.85	-17.49	19.85	26.45	318.62	1.27
2700.00	3.76	112.25	2695.86	17.33	-10.80	17.33	20.42	328.07	.71
2800.00	3.67	114.19	2795.65	14.78	-4.84	14.78	15.55	341.85	.15
2900.00	3.65	110.38	2895.44	12.36	1.06	12.36	12.40	4.90	.24
3000.00	3.32	106.04	2995.26	10.45	6.83	10.45	12.48	33.16	.42
3100.00	3.16	104.96	3095.10	8.94	12.27	8.94	15.18	53.94	.17
3200.00	2.99	105.23	3194.95	7.54	17.45	7.54	19.01	66.63	.17
3300.00	2.51	110.66	3294.84	6.08	22.02	6.08	22.84	74.56	.55
3400.00	2.61	111.91	3394.74	4.46	26.18	4.46	26.56	80.33	.11
3500.00	1.96	112.35	3494.66	2.96	29.87	2.96	30.02	84.34	.65
3600.00	1.80	113.03	3594.60	1.70	32.90	1.70	32.94	87.05	.16
3700.00	1.81	120.37	3694.56	.28	35.71	.28	35.71	89.55	.23
3800.00	1.53	111.46	3794.51	-1.00	38.31	-1.00	38.33	91.50	.38

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
3900.00	1.47	113.71	3894.48	-2.01	40.73	-2.01	40.78	92.82	.08
4000.00	1.11	122.21	3994.45	-3.04	42.72	-3.04	42.83	94.07	.41
4100.00	.98	127.98	4094.44	-4.08	44.22	-4.08	44.40	95.28	.17
4200.00	1.10	132.23	4194.42	-5.25	45.60	-5.25	45.90	96.57	.14
4300.00	.96	123.52	4294.40	-6.36	47.01	-6.36	47.44	97.71	.21
4400.00	.80	128.80	4394.39	-7.26	48.25	-7.26	48.80	98.56	.18
4500.00	.90	141.41	4494.38	-8.31	49.29	-8.31	49.98	99.57	.21
4600.00	.84	124.19	4594.37	-9.34	50.38	-9.34	51.24	100.50	.27
4700.00	.82	140.23	4694.36	-10.30	51.45	-10.30	52.47	101.32	.23
4800.00	.95	143.45	4794.35	-11.52	52.40	-11.52	53.65	102.40	.14
4900.00	.89	165.13	4894.34	-12.93	53.09	-12.93	54.64	103.69	.35
5000.00	.72	181.48	4994.33	-14.31	53.27	-14.31	55.16	105.04	.28
5100.00	.85	209.75	5094.32	-15.58	52.89	-15.58	55.14	106.42	.40
5200.00	.96	210.06	5194.30	-16.95	52.10	-16.95	54.79	108.02	.11
5300.00	.87	205.83	5294.29	-18.36	51.35	-18.36	54.54	109.68	.11
5400.00	.90	210.66	5394.28	-19.72	50.62	-19.72	54.33	111.29	.08
5500.00	.74	215.00	5494.27	-20.93	49.85	-20.93	54.06	112.77	.17
5600.00	.96	200.24	5594.26	-22.24	49.19	-22.24	53.98	114.33	.31
5700.00	.82	193.37	5694.25	-23.72	48.73	-23.72	54.20	115.96	.18
5800.00	.99	188.32	5794.23	-25.27	48.44	-25.27	54.64	117.55	.19
5900.00	.98	175.23	5894.22	-26.98	48.39	-26.98	55.40	119.14	.22
6000.00	1.02	176.15	5994.20	-28.72	48.52	-28.72	56.38	120.62	.04
6100.00	1.39	174.60	6094.18	-30.82	48.69	-30.82	57.63	122.33	.37
6200.00	1.24	168.94	6194.15	-33.09	49.02	-33.09	59.14	124.02	.20
6300.00	1.35	167.09	6294.13	-35.30	49.49	-35.30	60.78	125.50	.12
6400.00	1.71	182.78	6394.09	-37.93	49.68	-37.93	62.51	127.37	.55
6500.00	1.53	184.60	6494.05	-40.76	49.50	-40.76	64.12	129.47	.19
6600.00	1.45	178.67	6594.02	-43.35	49.42	-43.35	65.74	131.26	.17
6700.00	1.70	194.56	6693.98	-46.05	49.08	-46.05	67.30	133.18	.50

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
6800.00	2.22	197.16	6793.92	-49.34	48.13	-49.34	68.93	135.71	.53
6900.00	2.51	206.96	6893.84	-53.14	46.57	-53.14	70.66	138.77	.50
7000.00	3.95	220.48	6993.68	-57.71	43.34	-57.71	72.17	143.09	1.62
7100.00	4.08	220.39	7093.43	-63.04	38.80	-63.04	74.02	148.39	.13
7200.00	4.30	218.32	7193.17	-68.69	34.17	-68.69	76.72	153.55	.27
7300.00	4.28	212.72	7292.89	-74.77	29.83	-74.77	80.50	158.25	.42
7400.00	3.93	213.71	7392.63	-80.76	25.91	-80.76	84.82	162.21	.36
7500.00	3.50	216.99	7492.42	-86.05	22.17	-86.05	88.86	165.55	.48
7600.00	2.58	217.47	7592.28	-90.28	18.96	-90.28	92.25	168.14	.92
Last Survey Depth Recorded									
7700.00	2.55	224.21	7692.18	-93.66	16.04	-93.66	95.02	170.28	.30

Mewbourne Oil Co

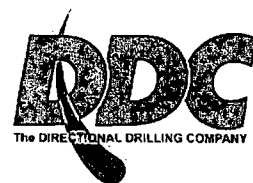
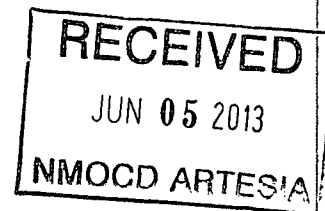
**Eddy County, New Mexico
Sec 35, T23S, R28E
Layla 35 OB Fee Com #1H**

Wellbore #1

Design: Wellbore #1

DDC Survey Report

10 May, 2013



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Layla 35 OB Fee Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3041.0usft (Patterson #41)
Site:	Sec 35, T23S, R28E	MD Reference:	WELL @ 3041.0usft (Patterson #41)
Well:	Layla 35 OB 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		
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
From:	Map	Easting:	585,924.08 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 15' 16.415 N
		Longitude:	104° 3' 19.382 W
		Grid Convergence:	0.15 °

Well	Layla 35 OB Fee Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 456,438.18 usft
	+E/-W	0.0 usft	Easting: 585,924.08 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 15' 16.415 N
		Longitude:	104° 3' 19.382 W
		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	4/2/2013	7.59	60.09	48,405

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	0.57

Survey Program		Date	5/10/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	7,700.0	GYRO (Wellbore #1)	Good_gyro	Good Gyro	
7,795.0	13,020.0	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	0.74	272.35	100.0	0.0	-0.6	0.0	0.74	0.74	0.00
200.0	1.39	291.27	200.0	0.5	-2.4	0.5	0.73	0.65	18.92
300.0	1.79	295.72	299.9	1.6	-5.0	1.6	0.42	0.40	4.45
400.0	2.15	294.78	399.9	3.1	-8.1	3.0	0.36	0.36	-0.94
500.0	2.96	290.89	499.8	4.8	-12.2	4.7	0.83	0.81	-3.89
600.0	3.28	289.81	599.6	6.7	-17.3	6.5	0.33	0.32	-1.08
700.0	3.41	292.79	699.5	8.8	-22.7	8.6	0.22	0.13	2.98
800.0	3.27	299.44	799.3	11.3	-27.9	11.1	0.41	-0.14	6.65
900.0	3.66	304.36	899.1	14.6	-33.1	14.2	0.49	0.39	4.92

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Layla 35 OB Fee Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3041.0usft (Patterson #41)
Site:	Sec 35, T23S, R28E	MD Reference:	WELL @ 3041.0usft (Patterson #41)
Well:	Layla 35 OB 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)
1,000.0	3.84	303.83	998.9	18.2	-38.5	17.8	0.18	0.18	-0.53
1,100.0	3.80	300.33	1,098.7	21.8	-44.1	21.3	0.24	-0.04	-3.50
1,200.0	3.17	297.36	1,198.5	24.7	-49.4	24.2	0.66	-0.63	-2.97
1,300.0	2.64	299.34	1,298.4	27.1	-53.9	26.6	0.54	-0.53	1.98
1,400.0	2.09	305.81	1,398.3	29.3	-57.4	28.7	0.61	-0.55	6.47
1,500.0	1.96	309.02	1,498.2	31.4	-60.2	30.8	0.17	-0.13	3.21
1,600.0	1.69	306.19	1,598.2	33.4	-62.7	32.8	0.28	-0.27	-2.83
1,700.0	1.42	305.49	1,698.1	35.0	-64.9	34.3	0.27	-0.27	-0.70
1,800.0	0.49	14.31	1,798.1	36.1	-65.8	35.5	1.32	-0.93	68.82
1,900.0	1.58	104.01	1,898.1	36.2	-64.4	35.5	1.65	1.09	89.70
2,000.0	2.39	104.87	1,998.0	35.3	-61.0	34.7	0.81	0.81	0.86
2,100.0	2.60	111.72	2,097.9	33.9	-56.9	33.4	0.36	0.21	6.85
2,200.0	3.86	113.66	2,197.8	31.8	-51.7	31.2	1.26	1.26	1.94
2,300.0	4.99	112.00	2,297.5	28.8	-44.6	28.3	1.14	1.13	-1.66
2,400.0	5.99	108.15	2,397.0	25.5	-35.6	25.2	1.07	1.00	-3.85
2,500.0	5.68	106.24	2,496.5	22.5	-25.9	22.3	0.37	-0.31	-1.91
2,600.0	4.44	109.27	2,596.1	19.8	-17.5	19.7	1.27	-1.24	3.03
2,700.0	3.76	112.25	2,695.9	17.3	-10.8	17.2	0.71	-0.68	2.98
2,800.0	3.67	114.19	2,795.6	14.8	-4.8	14.7	0.15	-0.09	1.94
2,900.0	3.65	110.38	2,895.4	12.4	1.1	12.4	0.24	-0.02	-3.81
3,000.0	3.32	106.04	2,995.3	10.4	6.8	10.5	0.42	-0.33	-4.34
3,100.0	3.16	104.96	3,095.1	8.9	12.3	9.1	0.17	-0.16	-1.08
3,200.0	2.99	105.23	3,195.0	7.5	17.5	7.7	0.17	-0.17	0.27
3,300.0	2.51	110.66	3,294.8	6.1	22.0	6.3	0.55	-0.48	5.43
3,400.0	2.61	111.91	3,394.7	4.5	26.2	4.7	0.11	0.10	1.25
3,500.0	1.96	112.35	3,494.7	3.0	29.9	3.3	0.65	-0.65	0.44
3,600.0	1.80	113.03	3,594.6	1.7	32.9	2.0	0.16	-0.16	0.68
3,700.0	1.81	120.37	3,694.6	0.3	35.7	0.6	0.23	0.01	7.34
3,800.0	1.53	111.46	3,794.5	-1.0	38.3	-0.6	0.38	-0.28	-8.91
3,900.0	1.47	113.71	3,894.5	-2.0	40.7	-1.6	0.08	-0.06	2.25
4,000.0	1.11	122.21	3,994.5	-3.0	42.7	-2.6	0.41	-0.36	8.50
4,100.0	0.98	127.98	4,094.4	-4.1	44.2	-3.6	0.17	-0.13	5.77
4,200.0	1.10	132.23	4,194.4	-5.3	45.6	-4.8	0.14	0.12	4.25
4,300.0	0.96	123.52	4,294.4	-6.4	47.0	-5.9	0.21	-0.14	-8.71
4,400.0	0.80	128.80	4,394.4	-7.3	48.3	-6.8	0.18	-0.16	5.28
4,500.0	0.90	141.41	4,494.4	-8.3	49.3	-7.8	0.21	0.10	12.61
4,600.0	0.84	124.19	4,594.4	-9.3	50.4	-8.8	0.27	-0.06	-17.22
4,700.0	0.82	140.23	4,694.4	-10.3	51.4	-9.8	0.23	-0.02	16.04
4,800.0	0.95	143.45	4,794.3	-11.5	52.4	-11.0	0.14	0.13	3.22
4,900.0	0.89	165.13	4,894.3	-12.9	53.1	-12.4	0.35	-0.06	21.68
5,000.0	0.72	181.48	4,994.3	-14.3	53.3	-13.8	0.28	-0.17	16.35
5,100.0	0.85	209.75	5,094.3	-15.6	52.9	-15.1	0.40	0.13	28.27
5,200.0	0.96	210.06	5,194.3	-17.0	52.1	-16.4	0.11	0.11	0.31

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Layla 35 OB Fee Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3041.0usft (Patterson #41)
Site:	Sec 35, T23S, R28E	MD Reference:	WELL @ 3041.0usft (Patterson #41)
Well:	Layla 35 OB 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)
5,300.0	0.87	205.83	5,294.3	-18.4	51.4	-17.9	0.11	-0.09	-4.23
5,400.0	0.90	210.66	5,394.3	-19.7	50.6	-19.2	0.08	0.03	4.83
5,500.0	0.74	215.00	5,494.3	-20.9	49.8	-20.4	0.17	-0.16	4.34
5,600.0	0.96	200.24	5,594.3	-22.2	49.2	-21.8	0.31	0.22	-14.76
5,700.0	0.82	193.37	5,694.2	-23.7	48.7	-23.2	0.18	-0.14	-6.87
5,800.0	0.99	188.32	5,794.2	-25.3	48.4	-24.8	0.19	0.17	-5.05
5,900.0	0.98	175.23	5,894.2	-27.0	48.4	-26.5	0.22	-0.01	-13.09
6,000.0	1.02	176.15	5,994.2	-28.7	48.5	-28.2	0.04	0.04	0.92
6,100.0	1.39	174.60	6,094.2	-30.8	48.7	-30.3	0.37	0.37	-1.55
6,200.0	1.24	168.94	6,194.2	-33.1	49.0	-32.6	0.20	-0.15	-5.66
6,300.0	1.35	167.09	6,294.1	-35.3	49.5	-34.8	0.12	0.11	-1.85
6,400.0	1.71	182.78	6,394.1	-37.9	49.7	-37.4	0.55	0.36	15.69
6,500.0	1.53	184.60	6,494.1	-40.8	49.5	-40.3	0.19	-0.18	1.82
6,600.0	1.45	178.67	6,594.0	-43.4	49.4	-42.9	0.17	-0.08	-5.93
6,700.0	1.70	194.56	6,694.0	-46.1	49.1	-45.6	0.50	0.25	15.89
6,800.0	2.22	197.16	6,793.9	-49.3	48.1	-48.9	0.53	0.52	2.60
6,900.0	2.51	206.96	6,893.8	-53.1	46.6	-52.7	0.50	0.29	9.80
7,000.0	3.95	220.48	6,993.7	-57.7	43.3	-57.3	1.62	1.44	13.52
7,100.0	4.08	220.39	7,093.4	-63.0	38.8	-62.7	0.13	0.13	-0.09
7,200.0	4.30	218.32	7,193.2	-68.7	34.2	-68.3	0.27	0.22	-2.07
7,300.0	4.28	212.72	7,292.9	-74.8	29.8	-74.5	0.42	-0.02	-5.60
7,400.0	3.93	213.71	7,392.6	-80.8	25.9	-80.5	0.36	-0.35	0.99
7,500.0	3.50	216.99	7,492.4	-86.1	22.2	-85.8	0.48	-0.43	3.28
7,600.0	2.58	217.47	7,592.3	-90.3	19.0	-90.1	0.92	-0.92	0.48
TIE IN @ 7700' MD / 7692' TVD									
7,700.0	2.55	224.21	7,692.2	-93.7	16.0	-93.5	0.30	-0.03	6.74
7,795.0	4.80	330.60	7,787.1	-91.7	12.6	-91.6	6.35	2.37	111.99
7,827.0	9.30	344.00	7,818.8	-88.1	11.2	-87.9	14.88	14.06	41.88
7,858.0	13.60	348.80	7,849.2	-82.1	9.8	-82.0	14.20	13.87	15.48
7,890.0	17.60	349.70	7,880.0	-73.6	8.2	-73.5	12.52	12.50	2.81
7,921.0	20.10	352.10	7,909.3	-63.7	6.7	-63.7	8.44	8.06	7.74
7,953.0	22.80	353.80	7,939.1	-52.1	5.3	-52.1	8.66	8.44	5.31
7,985.0	24.50	354.60	7,968.4	-39.3	4.0	-39.3	5.41	5.31	2.50
8,016.0	25.80	355.60	7,996.5	-26.2	2.8	-26.2	4.41	4.19	3.23
8,046.0	28.20	356.90	8,023.2	-12.6	2.0	-12.6	8.24	8.00	4.33
8,077.0	31.00	357.60	8,050.2	2.7	1.2	2.7	9.10	9.03	2.26
8,109.0	33.40	358.10	8,077.2	19.7	0.6	19.7	7.55	7.50	1.56
8,141.0	35.30	359.00	8,103.7	37.8	0.1	37.8	6.15	5.94	2.81
8,172.0	37.00	359.10	8,128.7	56.0	-0.2	56.0	5.49	5.48	0.32
8,203.0	39.70	358.60	8,153.0	75.3	-0.6	75.3	8.77	8.71	-1.61
8,235.0	43.40	357.70	8,176.9	96.5	-1.3	96.5	11.71	11.56	-2.81
8,266.0	46.30	358.00	8,198.9	118.3	-2.1	118.3	9.38	9.35	0.97
8,298.0	49.60	357.90	8,220.3	142.1	-2.9	142.0	10.32	10.31	-0.31

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Layla 35 OB Fee Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3041.0usft (Patterson #41)
Site:	Sec 35, T23S, R28E	MD Reference:	WELL @ 3041.0usft (Patterson #41)
Well:	Layla 35 OB 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)
8,330.0	52.30	358.10	8,240.5	166.9	-3.8	166.9	8.45	8.44	0.63
CROSSED HARD LINE @ 8347' MD / 8251' TVD									
8,347.0	54.16	358.83	8,250.7	180.5	-4.2	180.5	11.48	10.96	4.27
8,361.0	55.70	359.40	8,258.7	192.0	-4.3	191.9	11.48	10.98	4.09
8,392.0	57.90	0.20	8,275.7	217.9	-4.4	217.9	7.42	7.10	2.58
8,424.0	60.50	359.90	8,292.1	245.4	-4.4	245.3	8.16	8.13	-0.94
8,456.0	63.30	359.70	8,307.2	273.6	-4.5	273.6	8.77	8.75	-0.63
8,487.0	65.70	359.80	8,320.5	301.6	-4.6	301.5	7.75	7.74	0.32
8,519.0	68.50	0.20	8,332.9	331.1	-4.6	331.0	8.83	8.75	1.25
8,551.0	72.30	0.10	8,343.7	361.2	-4.5	361.1	11.88	11.88	-0.31
8,582.0	76.00	0.00	8,352.1	391.0	-4.5	391.0	11.94	11.94	-0.32
8,614.0	79.40	0.10	8,359.0	422.3	-4.5	422.2	10.63	10.63	0.31
8,645.0	83.00	0.10	8,363.7	452.9	-4.4	452.8	11.61	11.61	0.00
8,654.0	84.20	0.20	8,364.7	461.9	-4.4	461.8	13.38	13.33	1.11
8,731.0	90.30	1.20	8,368.4	538.7	-3.5	538.7	8.03	7.92	1.30
8,762.0	91.00	1.60	8,368.0	569.7	-2.7	569.7	2.60	2.26	1.29
8,825.0	91.30	2.00	8,366.8	632.7	-0.7	632.6	0.79	0.48	0.63
8,889.0	90.70	2.00	8,365.7	696.6	1.5	696.6	0.94	-0.94	0.00
8,952.0	90.90	1.40	8,364.8	759.6	3.4	759.6	1.00	0.32	-0.95
9,015.0	91.40	2.30	8,363.5	822.5	5.4	822.6	1.63	0.79	1.43
9,079.0	89.80	1.40	8,362.9	886.5	7.5	886.5	2.87	-2.50	-1.41
9,142.0	89.80	0.90	8,363.1	949.5	8.7	949.5	0.79	0.00	-0.79
9,205.0	90.20	1.40	8,363.1	1,012.5	10.0	1,012.5	1.02	0.63	0.79
9,268.0	89.80	1.20	8,363.1	1,075.5	11.4	1,075.5	0.71	-0.63	-0.32
9,331.0	90.50	1.20	8,362.9	1,138.4	12.8	1,138.5	1.11	1.11	0.00
9,394.0	90.00	0.50	8,362.6	1,201.4	13.7	1,201.5	1.37	-0.79	-1.11
9,458.0	90.20	0.40	8,362.5	1,265.4	14.2	1,265.5	0.35	0.31	-0.16
9,521.0	90.60	359.80	8,362.1	1,328.4	14.3	1,328.5	1.14	0.63	-0.95
9,584.0	91.30	359.60	8,361.0	1,391.4	14.0	1,391.5	1.16	1.11	-0.32
9,647.0	91.40	359.20	8,359.6	1,454.4	13.3	1,454.5	0.65	0.16	-0.63
9,711.0	89.90	359.60	8,358.8	1,518.4	12.6	1,518.4	2.43	-2.34	0.63
9,774.0	89.30	359.40	8,359.3	1,581.4	12.1	1,581.4	1.00	-0.95	-0.32
9,838.0	89.40	359.10	8,360.0	1,645.4	11.3	1,645.4	0.49	0.16	-0.47
9,901.0	89.80	359.20	8,360.4	1,708.4	10.3	1,708.4	0.65	0.63	0.16
9,964.0	90.00	359.40	8,360.5	1,771.4	9.5	1,771.4	0.45	0.32	0.32
10,028.0	89.80	359.70	8,360.7	1,835.4	9.0	1,835.4	0.56	-0.31	0.47
10,091.0	89.40	359.20	8,361.1	1,898.4	8.4	1,898.3	1.02	-0.63	-0.79
10,154.0	90.90	0.20	8,360.9	1,961.4	8.1	1,961.3	2.86	2.38	1.59
10,217.0	91.30	0.30	8,359.7	2,024.3	8.4	2,024.3	0.65	0.63	0.16
10,281.0	91.00	359.80	8,358.4	2,088.3	8.4	2,088.3	0.91	-0.47	-0.78
10,343.0	91.30	0.60	8,357.2	2,150.3	8.7	2,150.3	1.38	0.48	1.29
10,406.0	91.80	0.90	8,355.5	2,213.3	9.5	2,213.3	0.93	0.79	0.48
10,470.0	89.40	1.60	8,354.8	2,277.3	10.9	2,277.3	3.91	-3.75	1.09
10,533.0	89.40	1.70	8,355.5	2,340.2	12.7	2,340.2	0.16	0.00	0.16

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Layla 35.OB Fee Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3041.0usft (Patterson #41)
Site:	Sec 35, T23S, R28E	MD Reference:	WELL @ 3041.0usft (Patterson #41)
Well:	Layla 35 OB 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)	
10,596.0	90.10	1.80	8,355.8	2,403.2	14.6	2,403.2	1.12	1.11	0.16	
10,660.0	89.90	1.10	8,355.8	2,467.2	16.2	2,467.2	1.14	-0.31	-1.09	
10,723.0	90.50	1.00	8,355.5	2,530.2	17.4	2,530.2	0.97	0.95	-0.16	
10,786.0	90.30	0.90	8,355.1	2,593.2	18.4	2,593.2	0.35	-0.32	-0.16	
10,849.0	90.90	0.90	8,354.4	2,656.1	19.4	2,656.2	0.95	0.95	0.00	
10,913.0	91.10	0.90	8,353.3	2,720.1	20.4	2,720.2	0.31	0.31	0.00	
10,976.0	92.20	1.50	8,351.5	2,783.1	21.7	2,783.2	1.99	1.75	0.95	
11,039.0	91.30	1.50	8,349.6	2,846.0	23.4	2,846.1	1.43	-1.43	0.00	
11,102.0	89.50	1.30	8,349.1	2,909.0	24.9	2,909.1	2.87	-2.86	-0.32	
11,165.0	89.50	0.90	8,349.7	2,972.0	26.1	2,972.1	0.63	0.00	-0.63	
11,228.0	89.50	1.00	8,350.2	3,035.0	27.2	3,035.1	0.16	0.00	0.16	
11,292.0	89.90	0.70	8,350.6	3,099.0	28.1	3,099.1	0.78	0.63	-0.47	
11,355.0	90.60	0.50	8,350.3	3,162.0	28.8	3,162.1	1.16	1.11	-0.32	
11,419.0	90.80	1.10	8,349.5	3,226.0	29.7	3,226.1	0.99	0.31	0.94	
11,482.0	89.80	2.30	8,349.2	3,288.9	31.6	3,289.1	2.48	-1.59	1.90	
11,545.0	89.30	1.20	8,349.7	3,351.9	33.5	3,352.1	1.92	-0.79	-1.75	
11,608.0	89.00	359.40	8,350.6	3,414.9	33.8	3,415.1	2.90	-0.48	-2.86	
11,672.0	88.90	358.90	8,351.8	3,478.9	32.9	3,479.0	0.80	-0.16	-0.78	
11,735.0	89.40	358.10	8,352.7	3,541.8	31.2	3,542.0	1.50	0.79	-1.27	
11,798.0	90.40	359.00	8,352.8	3,604.8	29.6	3,604.9	2.14	1.59	1.43	
11,862.0	91.10	358.00	8,352.0	3,668.8	27.9	3,668.9	1.91	1.09	-1.56	
11,925.0	91.70	357.70	8,350.5	3,731.7	25.6	3,731.8	1.06	0.95	-0.48	
11,988.0	89.40	359.50	8,349.9	3,794.7	24.0	3,794.8	4.64	-3.65	2.86	
12,052.0	89.50	359.20	8,350.5	3,858.7	23.3	3,858.7	0.49	0.16	-0.47	
12,115.0	89.10	1.00	8,351.2	3,921.7	23.4	3,921.7	2.93	-0.63	2.86	
12,178.0	90.10	0.90	8,351.7	3,984.7	24.5	3,984.7	1.60	1.59	-0.16	
12,241.0	91.00	1.30	8,351.1	4,047.7	25.7	4,047.7	1.56	1.43	0.63	
12,305.0	89.00	1.00	8,351.1	4,111.6	27.0	4,111.7	3.16	-3.13	-0.47	
12,368.0	87.30	0.90	8,353.1	4,174.6	28.0	4,174.7	2.70	-2.70	-0.16	
12,431.0	88.30	1.90	8,355.5	4,237.5	29.5	4,237.6	2.24	1.59	1.59	
12,494.0	88.80	1.50	8,357.1	4,300.5	31.4	4,300.6	1.02	0.79	-0.63	
12,557.0	90.20	1.90	8,357.7	4,363.5	33.3	4,363.6	2.31	2.22	0.63	
12,621.0	91.00	2.00	8,357.0	4,427.4	35.5	4,427.5	1.26	1.25	0.16	
12,683.0	91.20	1.40	8,355.8	4,489.4	37.3	4,489.5	1.02	0.32	-0.97	
12,746.0	92.00	1.40	8,354.0	4,552.3	38.8	4,552.5	1.27	1.27	0.00	
12,810.0	91.50	2.30	8,352.1	4,616.3	40.9	4,616.4	1.61	-0.78	1.41	
12,873.0	90.20	1.90	8,351.2	4,679.2	43.2	4,679.4	2.16	-2.06	-0.63	
12,936.0	90.50	1.50	8,350.8	4,742.2	45.1	4,742.4	0.79	0.48	-0.63	
12,970.0	90.70	1.50	8,350.4	4,776.2	46.0	4,776.4	0.59	0.59	0.00	
TD @ 13020' MD / 8350' TVD										
13,020.0	90.70	1.50	8,349.8	4,826.2	47.3	4,826.4	0.00	0.00	0.00	

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Layla 35 OB Fee Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3041.0usft (Patterson #41)
Site:	Sec 35, T23S, R28E	MD Reference:	WELL @ 3041.0usft (Patterson #41)
Well:	Layla 35 OB Fee Com #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)	
7,700.0	7,692.2	-93.7	16.0	TIE IN @ 7700' MD / 7692' TVD
8,347.0	8,250.7	180.5	-4.2	CROSSED HARD LINE @ 8347' MD / 8251' TVD
13,020.0	8,349.8	4,826.2	47.3	TD @ 13020' MD / 8350' TVD

Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
Layla 35 OB Fee Com #1H
Eddy County, New Mexico
Rig: Patterson #41
Created By: Dina Chance
Date: 5/10/2013

Layla 35 OB Fee Com #1H
Eddy County, New Mexico
Q130037 & WT-13277
Design #2

Mewbourne Oil Company



Azimuths to Grid North

Magnetic North: 7.44°

Magnetic Field

Strength: 48404.7snT

Dip Angle: 60.09°

Date: 4/2/2013

Model: IGRF2010

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 OB Fee Com #1H

Ground Level: 3021.0
Northing: 456438.18 Easting: 585924.08
Latitude: 32° 15' 16.416 N Longitude: 104° 3' 19.382 W

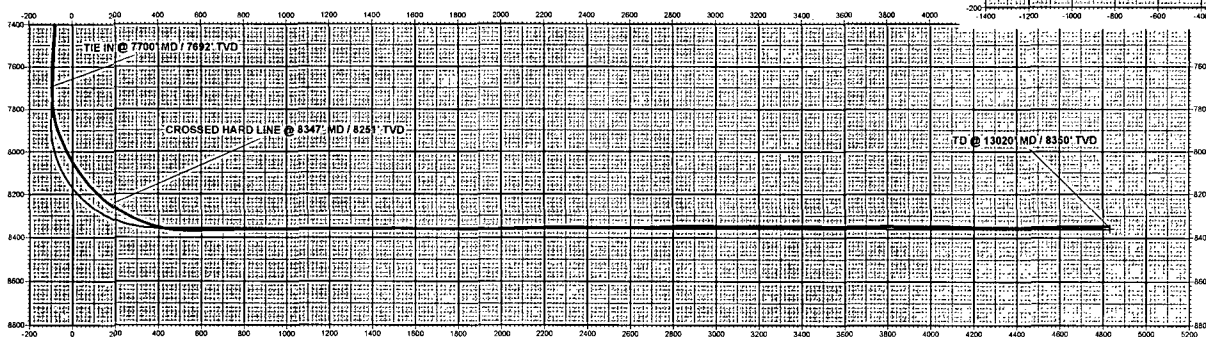
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL Layla 35 OB Fee Com #1H Design #1	8361.0	4851.2	48.1	461269.40	585972.14	32° 16' 4.225 N	104° 3' 16.877 W

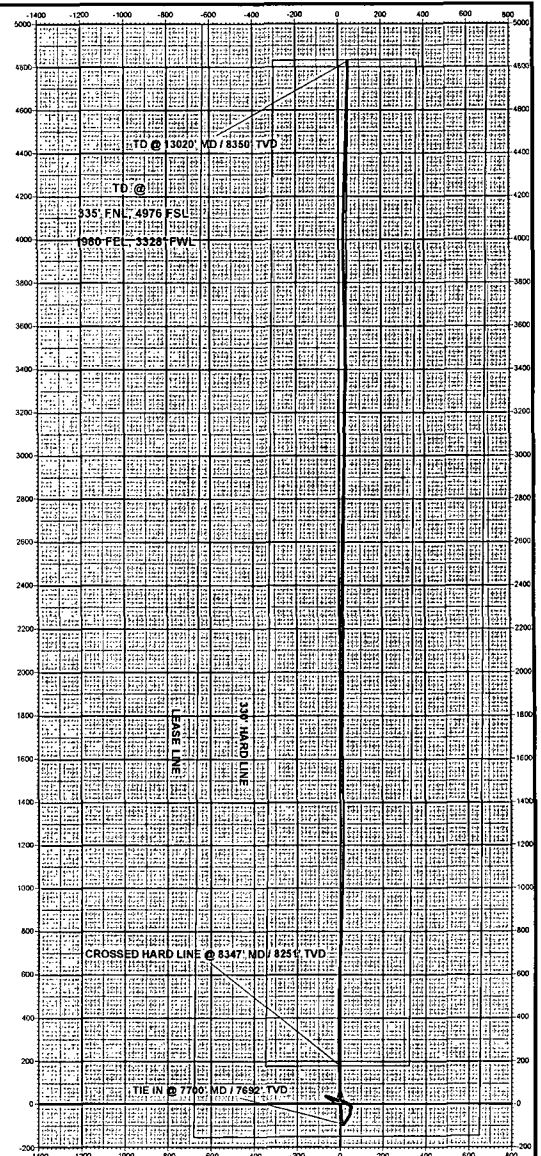
- plan hits target center

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
7700.0	2.55	224.21	7692.2	-93.7	16.0	-93.5	299.5	TIE IN @ 7700' MD / 7692' TVD
8347.0	64.16	358.83	8250.7	-180.5	-4.2	180.5	678.0	CROSSED HARD LINE @ 8347' MD / 8251' TVD
13020.0	90.70	1.50	8349.8	4826.2	47.3	4826.4	6225.5	TD @ 13020' MD / 8350' TVD



Vertical Section at 0.57" (200 usf/in)



Operating Company Mewbourne
 Well Name & Number 35 OB FEE Com #1H
 Sales Ticket Number 5467936
 Date 4/29/2013

Company Rep Dave Berryman
 Field Layla
 BOT Service Rep Joseph Haynes
 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	8,705.00	9,960	6,230	
Top Liner	4.500	13.50	110000	3.920	3.795	LT&C	0.01492	4,529.57	12,410	10,680	
Bott Liner											
TVD		8,350.00		KOP		7,700.00		Open Hole	6.125	Casing Vol. (bbl)	324.0
Carry Fluid Weight (ppg)			8.6		Propant Content (ppa)				Max Drill Out Size		3.625

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Displ. (BBL)
Liner Top	1	10292414	JR Setting Sleeve_RH Profile	8470.71	4.00	5.750	4.000			324

Zone Length										
20	H4090400008	JR Sleeve_S3 Hyd Set-Packer	8474.71	4.60	5.875	3.875		1670		
	H299710014	4-1/2-13.5 LTC Nipple	8479.31	5.64	4.500	4.000				
		8 Joints of 4-1/2"-13.5# LTC Casing	8484.95	306.83	4.500	4.000				
19	H810060026	3.625 EX Frac.Sleeve	8791.78	2.40	5.625		3.525	2286		328
		3 Joints of 4-1/2"-13.5# LTC Casing	8794.18	115.29	4.500	3.920				
	H409360008	Baker Open Hole Packer	8909.47	3.89	5.820	3.875		2154		
18		3 Joints of 4-1/2"-13.5# LTC Casing	8913.36	113.51	4.500	3.920				
	H810060025	3.500 EX Frac Sleeve	9026.87	2.40	5.625		3.400	2286		332
		3 Joints of 4-1/2"-13.5# LTC Casing	9029.27	114.02	4.500	3.920				
17	H409360008	Baker Open Hole Packer	9143.29	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2"-13.5# LTC Casing	9147.18	76.15	4.500	3.920				
	H810060024	3.375 EX Frac Sleeve	9223.33	2.40	5.625		3.275	2286		335
16		3 Joints of 4-1/2"-13.5# LTC Casing	9225.73	113.82	4.500	3.920				
	H409360008	Baker Open Hole Packer	9339.55	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2"-13.5# LTC Casing	9343.44	115.33	4.500	3.920				
15	H810060023	3.250 EX Frac Sleeve	9458.77	2.40	5.625		3.150	2286		339
		3 Joints of 4-1/2"-13.5# LTC Casing	9461.17	114.86	4.500	3.920				
	H409360008	Baker Open Hole Packer	9576.03	3.89	5.820	3.875		2154		
14		2 Joints of 4-1/2"-13.5# LTC Casing	9579.92	76.54	4.500	3.920				
	H810060022	3.125 EX Frac.Sleeve	9656.46	2.40	5.625		3.025	2286		342
		3 Joints of 4-1/2"-13.5# LTC Casing	9658.86	117.00	4.500	3.920				
13	H409360008	Baker Open Hole Packer	9775.86	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2"-13.5# LTC Casing	9779.75	113.54	4.500	3.920				

Operating Company Mewbourne
Well Name & Number 35 OB FEE Com #1H
Sales Ticket Number 5467936
Date 4/29/2013

Company Rep Dave Berryman
Field Layla
BOT Service Rep Joseph Haynes
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	8,705.00	9,960	6,230	
Top Liner	4.500	13.50	110000	3.920	3.795	LT&C	0.01492	4,529.57	12,410	10,680	
Bott Liner											
TVD		8,350.00		KOP		7,700.00		Open Hole	6.125	Casing Vol. (bbl)	324.0
Carry Fluid Weight (ppg)			8.6		Propant Content (ppa)				Max Drill Out Size		3.625

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
15	H810060021	3.000 EX Frac Sleeve	9893.29	2.40	5.625		2.900	2286		345
		3 Joints of 4-1/2"-13.5# LTC Casing	9895.69	114.78	4.500	3.920				
	H409360008	Baker Open Hole Packer	10010.47	3.89	5.820	3.875		2154		
14		3 Joints of 4-1/2"-13.5# LTC Casing	10014.36	114.01	4.500	3.920				
	H810060020	2.875 EX Frac sleeve	10128.37	2.40	5.625		2.775	2286		349
		3 Joints of 4-1/2"-13.5# LTC Casing	10130.77	115.25	4.500	3.920				
13	H409360008	Baker Open Hole Packer	10246.02	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2"-13.5# LTC Casing	10249.91	75.44	4.500	3.920				
	H810060019	2.750 EX Frac Sleeve	10325.35	2.40	5.625	3.875	2.650	2286		352
12		3 Joints of 4-1/2"-13.5# LTC Casing	10327.75	114.31	4.500	3.920				
	H409360008	Baker Open Hole Packer	10442.06	3.89	5.820			2154		
		3 Joints of 4-1/2"-13.5# LTC Casing	10445.95	114.16	4.500	3.920				
11	H810060018	2.625 EX Frac Sleeve	10560.11	2.40	5.625	3.875	2.525	2286		355
		3 Joints of 4-1/2"-13.5# LTC Casing	10562.51	113.71	4.500	3.920				
	H809870065	Baker Open Hole Packer	10676.22	3.89	5.820			2154		
10		2 Joints of 4-1/2"-13.5# LTC Casing	10680.11	76.12	4.500	3.920				
	H810060017	2.500 EX Frac Sleeve	10756.23	2.40	5.625	3.875	2.400	2286		358
		3 Joints of 4-1/2"-13.5# LTC Casing	10758.63	114.86	4.500	3.920				
9	H809870065	Baker Open Hole Packer	10873.49	3.89	5.820			2154		
		3 Joints of 4-1/2"-13.5# LTC Casing	10877.38	113.26	4.500	3.920				
	H810060016	2.375 EX Frac Sleeve	10990.64	2.40	5.625	3.875	2.275	2286		362
		3 Joints of 4-1/2"-13.5# LTC Casing	10993.04	113.45	4.500	3.920				
	H809870065	Baker Open Hole Packer	11106.49	3.89	5.820			2154		
		3 Joints of 4-1/2"-13.5# LTC Casing	11110.38	114.11	4.500	3.920				
	H810060015	2.250 EX Frac Sleeve	11224.49	2.40	5.625	3.875	2.150	2286		365
		3 Joints of 4-1/2"-13.5# LTC Casing	11226.89	113.97	4.500	3.920				
	H809870065	Baker Open Hole Packer	11340.86	3.89	5.820			2154		

Operating Company Mewbourne
 Well Name & Number 35 OB FEE Com #1H
 Sales Ticket Number 5467936
 Date 4/29/2013

Company Rep Dave Berryman
 Field Layla
 BOT Service Rep Joseph Haynes
 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	8,705.00	9,960	6,230	
Top Liner	4.500	13.50	110000	3.920	3.795	LT&C	0.01492	4,529.57	12,410	10,680	
Bott Liner											
TVD		8,350.00		KOP		7,700.00		Open Hole	6.125	Casing Vol. (bbl)	324.0
Carry Fluid Weight (ppg)			8.6		Propant Content (ppa)				Max Drill Out Size		3.625

	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	11344.75	76.54	4.500	3.920				
	H810060014	2.125 EX Frac Sleeve	11421.29	2.40	5.625	3.875	2.025	2286		368
		3 Joints of 4-1/2"-13.5# LTC Casing	11423.69	114.93	4.500	3.920				
7	H809870065	Baker Open Hole Packer	11538.62	3.89	5.820			2154		
		3 Joints of 4-1/2"-13.5# LTC Casing	11542.51	114.46	4.500	3.920				
	H810060013	2.000 EX Frac Sleeve	11656.97	2.40	5.625	3.875	1.900	2286		372
6		3 Joints of 4-1/2"-13.5# LTC Casing	11659.37	114.76	4.500	3.920				
	H809870065	Baker Open Hole Packer	11774.13	3.89	5.820			2154		
		2 Joints of 4-1/2"-13.5# LTC Casing	11778.02	76.57	4.500	3.920				
5	H810060012	1.875 EX Frac Sleeve	11854.59	2.40	5.625	3.875	1.775	2286		374
		3 Joints of 4-1/2"-13.5# LTC Casing	11856.99	114.80	4.500	3.920				
	H809870065	Baker Open Hole Packer	11971.79	3.89	5.820			2154		
4		3 Joints of 4-1/2"-13.5# LTC Casing	11975.68	114.15	4.500	3.920				
	H810060011	1.750 EX Frac Sleeve	12089.83	2.40	5.625	3.875	1.650	2286		378
		3 Joints of 4-1/2"-13.5# LTC Casing	12092.23	113.58	4.500	3.920				
3	H809870065	Baker Open Hole Packer	12205.81	3.89	5.820			2154		
		3 Joints of 4-1/2"-13.5# LTC Casing	12209.70	113.67	4.500	3.920				
	H810060010	1.625 EX Frac Sleeve	12323.37	2.40	5.625	3.875	1.525	2286		381
2		3 Joints of 4-1/2"-13.5# LTC Casing	12325.77	113.88	4.500	3.920				
	H809870065	Baker Open Hole Packer	12439.65	3.89	5.820			2154		
		3 Joints of 4-1/2"-13.5# LTC Casing	12443.54	114.34	4.500	3.920				
1	H810060006	1.500 DB Frac Sleeve	12557.88	2.40	5.625	3.875	1.400	2286		385
		3 Joints of 4-1/2"-13.5# LTC Casing	12560.28	113.95	4.500	3.920				
	H809870065	Baker Open Hole Packer	12674.23	3.89	5.820			2154		
0		2 Joints of 4-1/2"-13.5# LTC Casing	12678.12	76.35	4.500	3.920				
	H810060005	1.375 DB Frac Sleeve	12754.47	2.40	5.625	3.875	1.275	2286		388
		3 Joints of 4-1/2"-13.5# LTC Casing	12756.87	114.12	4.500	3.920				

Company Rep	Dave Berryman
Field	Layla
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District Location	Odessa, Texas, USA



TVD	8,350.00	KOP	7,700.00	Open Hole	6.125	Casing Vol. (bbl)	324.0
Carry Fluid Weight (ppg)	8.6	Propant Content (ppa)				Max Drill Out Size	3.625

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