

NM OIL CONSERVATION

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15-4143.0

Mewbourne Oil Company .

Eddy County, New Mexico

Section 15/22/27-26S-27E Owl Draw 22 AP Fed #1H

Owl Draw 22 AP Fed Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

11 July, 2014

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Owl Draw 22 AP Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3148 + 20 @ 3168.0usft (Patterson#187)
Site:	Section 15/22/27-26S-27E Owl Draw 22 AP Fed #1H	MD Reference:	3148 + 20 @ 3168.0usft (Patterson#187)
Well:	Owl Draw 22 AP Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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	Section 15/22/27-26S-27E Owl Draw 22 AP Fed #1H		
Site Position:		Northing:	376,587.46 usft
From:	Map	Easting:	550,341.64 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 6.898 N
		Longitude:	104° 10' 15.154 W
		Grid Convergence:	0.09 °

Well	Owl Draw 22 AP Fed Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 376,587.46 usft
	+E/-W	0.0 usft	Easting: 550,341.64 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 2' 6.898 N
		Longitude:	104° 10' 15.154 W
		Ground Level:	3,148.0 usft

Wellbore:	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/4/2014	7.48	59.84	48,142

Design	Original Hole		
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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	179.60

Survey Program		Date 7/11/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
6,999.0	17,650.0	Stryker MWD Survey (Original Hole)	MWD	MWD v3:standard declination

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)
6,925.0	1.80	157.60	6,922.9	-46.7	30.1	46.9	0.00	0.00	0.00
6,999.0	7.50	180.90	6,996.6	-52.6	30.5	52.8	7.96	7.70	31.49
7,031.0	11.80	182.30	7,028.2	-58.0	30.3	58.2	13.46	13.44	4.38
7,062.0	15.30	183.50	7,058.3	-65.2	29.9	65.4	11.33	11.29	3.87
7,093.0	17.70	184.50	7,088.0	-74.0	29.3	74.2	7.80	7.74	3.23
7,124.0	18.80	184.50	7,117.5	-83.7	28.5	83.9	3.55	3.55	0.00
7,156.0	20.60	185.60	7,147.6	-94.4	27.6	94.6	5.74	5.63	3.44
7,187.0	24.70	185.90	7,176.2	-106.3	26.4	106.5	13.23	13.23	0.97
7,218.0	28.20	185.90	7,203.9	-120.0	25.0	120.2	11.29	11.29	0.00
7,250.0	30.90	185.60	7,231.8	-135.7	23.4	135.9	8.45	8.44	-0.94

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Well:	Owl Draw 22 AP Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker EDM

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)
7,281.0	34.80	183.70	7,257.8	-152.5	22.0	152.6	13.01	12.58	-6.13
7,313.0	38.50	183.40	7,283.5	-171.6	20.9	171.7	11.58	11.56	-0.94
7,344.0	40.40	182.90	7,307.4	-191.2	19.8	191.4	6.21	6.13	-1.61
7,376.0	43.00	182.20	7,331.3	-212.5	18.8	212.6	8.25	8.13	-2.19
7,408.0	48.00	181.80	7,353.7	-235.3	18.0	235.4	15.65	15.63	-1.25
7,440.0	52.70	182.60	7,374.1	-259.9	17.1	260.0	14.81	14.69	2.50
7,471.0	54.30	183.50	7,392.6	-284.8	15.8	284.9	5.66	5.16	2.90
7,503.0	56.20	183.20	7,410.8	-311.0	14.2	311.1	5.99	5.94	-0.94
7,535.0	58.50	182.40	7,428.1	-337.9	12.9	338.0	7.49	7.19	-2.50
7,567.0	60.50	181.90	7,444.3	-365.5	11.9	365.6	6.39	6.25	-1.56
7,599.0	62.00	181.70	7,459.7	-393.5	11.0	393.6	4.72	4.69	-0.63
7,630.0	64.00	181.50	7,473.8	-421.1	10.2	421.2	6.48	6.45	-0.65
7,662.0	66.00	180.50	7,487.3	-450.1	9.7	450.2	6.86	6.25	-3.13
7,694.0	68.00	179.90	7,499.8	-479.6	9.6	479.6	6.48	6.25	-1.88
7,725.0	70.80	179.40	7,510.7	-508.6	9.8	508.7	9.16	9.03	-1.61
7,757.0	72.40	179.80	7,520.8	-539.0	10.0	539.0	5.14	5.00	1.25
7,789.0	74.30	180.40	7,530.0	-569.6	10.0	569.7	6.20	5.94	1.88
<u>7,821.0</u>	78.70	182.00	7,537.5	-600.7	9.3	600.8	14.58	13.75	5.00
7,853.0	83.90	183.40	7,542.3	-632.3	7.8	632.3	16.82	16.25	4.38
7,884.0	86.50	184.20	7,544.9	-663.1	5.8	663.2	8.77	8.39	2.58
7,916.0	87.70	184.60	7,546.5	-695.0	3.3	695.0	3.95	3.75	1.25
7,947.0	89.20	182.70	7,547.4	-725.9	1.3	725.9	7.81	4.84	-6.13
7,975.0	90.20	180.70	7,547.5	-753.9	0.5	753.9	7.99	3.57	-7.14
8,070.0	89.10	179.50	7,548.1	-848.9	0.3	848.9	1.71	-1.16	-1.26
8,165.0	88.20	179.30	7,550.3	-943.9	1.3	943.8	0.97	-0.95	-0.21
8,260.0	89.30	180.10	7,552.4	-1,038.8	1.8	1,038.8	1.43	1.16	0.84
8,356.0	88.10	179.00	7,554.6	-1,134.8	2.6	1,134.8	1.70	-1.25	-1.15
8,451.0	87.30	179.20	7,558.4	-1,229.7	4.1	1,229.7	0.87	-0.84	0.21
8,546.0	88.20	179.20	7,562.1	-1,324.6	5.4	1,324.6	0.95	0.95	0.00
8,641.0	86.60	179.20	7,566.4	-1,419.5	6.7	1,419.5	1.68	-1.68	0.00
8,736.0	87.20	178.50	7,571.6	-1,514.4	8.6	1,514.4	0.97	0.63	-0.74
8,832.0	87.60	178.90	7,575.9	-1,610.2	10.8	1,610.3	0.59	0.42	0.42
8,927.0	87.60	181.30	7,579.9	-1,705.1	10.6	1,705.2	2.52	0.00	2.53
9,022.0	89.30	182.00	7,582.5	-1,800.1	7.9	1,800.1	1.94	1.79	0.74
9,117.0	90.20	181.10	7,582.9	-1,895.0	5.3	1,895.0	1.34	0.95	-0.95
9,212.0	90.50	180.60	7,582.3	-1,990.0	3.9	1,990.0	0.61	0.32	-0.53
9,306.0	91.30	180.30	7,580.8	-2,084.0	3.2	2,084.0	0.91	0.85	-0.32
9,401.0	89.70	181.10	7,580.0	-2,179.0	2.0	2,179.0	1.88	-1.68	0.84
9,495.0	88.40	181.10	7,581.6	-2,273.0	0.2	2,272.9	1.38	-1.38	0.00
9,590.0	88.90	181.50	7,583.8	-2,367.9	-1.9	2,367.8	0.67	0.53	0.42
9,684.0	90.20	181.20	7,584.5	-2,461.9	-4.1	2,461.8	1.42	1.38	-0.32
9,779.0	89.40	181.20	7,584.9	-2,556.9	-6.1	2,556.7	0.84	-0.84	0.00

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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
9,873.0	89.80	181.10	7,585.5	-2,650.8	-8.0	2,650.7	0.44	0.43	-0.11
9,968.0	88.10	181.60	7,587.3	-2,745.8	-10.2	2,745.6	1.87	-1.79	0.53
10,062.0	88.10	181.20	7,590.4	-2,839.7	-12.5	2,839.5	0.43	0.00	-0.43
10,157.0	90.00	181.70	7,591.9	-2,934.7	-14.9	2,934.5	2.07	2.00	0.53
10,253.0	90.70	181.00	7,591.4	-3,030.6	-17.2	3,030.4	1.03	0.73	-0.73
10,347.0	91.50	180.40	7,589.6	-3,124.6	-18.4	3,124.4	1.06	0.85	-0.64
10,442.0	89.50	180.30	7,588.7	-3,219.6	-18.9	3,219.4	2.11	-2.11	-0.11
10,537.0	90.90	181.10	7,588.4	-3,314.6	-20.1	3,314.4	1.70	1.47	0.84
10,632.0	90.50	179.10	7,587.2	-3,409.6	-20.3	3,409.3	2.15	-0.42	-2.11
10,727.0	89.10	178.10	7,587.6	-3,504.5	-17.9	3,504.3	1.81	-1.47	-1.05
10,822.0	89.20	177.00	7,589.0	-3,599.4	-13.9	3,599.3	1.16	0.11	-1.16
10,917.0	89.60	176.50	7,590.0	-3,694.3	-8.5	3,694.1	0.67	0.42	-0.53
11,012.0	91.30	175.30	7,589.2	-3,789.0	-1.7	3,788.9	2.19	1.79	-1.26
11,107.0	90.90	177.20	7,587.4	-3,883.8	4.5	3,883.7	2.04	-0.42	2.00
11,202.0	89.50	178.30	7,587.1	-3,978.7	8.2	3,978.7	1.87	-1.47	1.16
11,297.0	89.10	179.20	7,588.2	-4,073.7	10.3	4,073.7	1.04	-0.42	0.95
11,391.0	85.80	178.80	7,592.4	-4,167.6	11.9	4,167.6	3.54	-3.51	-0.43
11,486.0	86.50	179.30	7,598.8	-4,262.3	13.5	4,262.3	0.90	0.74	0.53
11,581.0	88.20	179.80	7,603.2	-4,357.2	14.3	4,357.2	1.87	1.79	0.53
11,675.0	91.10	179.80	7,603.8	-4,451.2	14.6	4,451.2	3.09	3.09	0.00
11,769.0	92.10	179.80	7,601.1	-4,545.2	14.9	4,545.2	1.06	1.06	0.00
11,864.0	89.50	179.60	7,599.8	-4,640.2	15.4	4,640.2	2.74	-2.74	-0.21
11,959.0	89.80	179.50	7,600.4	-4,735.2	16.2	4,735.2	0.33	0.32	-0.11
12,053.0	90.10	178.00	7,600.5	-4,829.1	18.2	4,829.1	1.63	0.32	-1.60
12,148.0	90.00	178.50	7,600.4	-4,924.1	21.1	4,924.1	0.54	-0.11	0.53
12,243.0	90.60	178.40	7,599.9	-5,019.1	23.7	5,019.1	0.64	0.63	-0.11
12,338.0	91.00	178.90	7,598.6	-5,114.0	25.9	5,114.1	0.67	0.42	0.53
12,432.0	91.10	178.10	7,596.8	-5,208.0	28.4	5,208.0	0.86	0.11	-0.85
12,527.0	88.90	178.30	7,596.8	-5,302.9	31.4	5,303.0	2.33	-2.32	0.21
12,622.0	88.70	179.20	7,598.8	-5,397.9	33.4	5,398.0	0.97	-0.21	0.95
12,717.0	89.70	180.20	7,600.2	-5,492.9	33.9	5,493.0	1.49	1.05	1.05
12,811.0	90.50	181.00	7,600.0	-5,586.9	32.9	5,586.9	1.20	0.85	0.85
12,906.0	91.20	180.80	7,598.6	-5,681.8	31.5	5,681.9	0.77	0.74	-0.21
13,000.0	90.80	180.40	7,596.9	-5,775.8	30.5	5,775.9	0.60	-0.43	-0.43
13,095.0	90.50	180.80	7,595.9	-5,870.8	29.5	5,870.9	0.53	-0.32	0.42
13,189.0	90.20	181.40	7,595.3	-5,964.8	27.7	5,964.8	0.71	-0.32	0.64
13,284.0	89.90	181.30	7,595.2	-6,059.8	25.4	6,059.8	0.33	-0.32	-0.11
13,379.0	89.30	181.20	7,595.9	-6,154.7	23.4	6,154.7	0.64	-0.63	-0.11
13,473.0	88.70	181.40	7,597.5	-6,248.7	21.2	6,248.7	0.67	-0.64	0.21
13,568.0	89.80	181.20	7,598.8	-6,343.7	19.1	6,343.6	1.18	1.16	-0.21
13,631.0	89.00	180.90	7,599.4	-6,406.6	17.9	6,406.6	1.36	-1.27	-0.48
13,726.0	89.00	180.50	7,601.1	-6,501.6	16.8	6,501.6	0.42	0.00	-0.42
13,821.0	89.40	179.50	7,602.4	-6,596.6	16.8	6,596.6	1.13	0.42	-1.05

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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker EDM

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)
13,916.0	90.20	178.70	7,602.7	-6,691.6	18.3	6,691.6	1.19	0.84	-0.84
14,010.0	91.30	178.50	7,601.5	-6,785.6	20.5	6,785.5	1.19	1.17	-0.21
14,105.0	88.50	180.00	7,601.7	-6,880.5	21.8	6,880.5	3.34	-2.95	1.58
14,199.0	89.00	179.40	7,603.7	-6,974.5	22.3	6,974.5	0.83	0.53	-0.64
14,294.0	90.00	179.60	7,604.5	-7,069.5	23.1	7,069.5	1.07	1.05	0.21
14,388.0	91.00	179.10	7,603.7	-7,163.5	24.2	7,163.5	1.19	1.06	-0.53
14,482.0	91.70	179.10	7,601.5	-7,257.5	25.7	7,257.5	0.74	0.74	0.00
14,577.0	88.40	178.80	7,601.4	-7,352.4	27.4	7,352.4	3.49	-3.47	-0.32
14,671.0	88.50	179.50	7,604.0	-7,446.4	28.8	7,446.4	0.75	0.11	0.74
14,766.0	88.10	179.00	7,606.8	-7,541.3	30.0	7,541.4	0.67	-0.42	-0.53
14,861.0	89.30	178.80	7,608.9	-7,636.3	31.9	7,636.3	1.28	1.26	-0.21
14,955.0	89.60	178.40	7,609.8	-7,730.3	34.2	7,730.3	0.53	0.32	-0.43
15,050.0	90.00	178.40	7,610.2	-7,825.2	36.8	7,825.3	0.42	0.42	0.00
15,145.0	90.00	177.60	7,610.2	-7,920.2	40.1	7,920.2	0.84	0.00	-0.84
15,239.0	90.00	176.70	7,610.2	-8,014.0	44.8	8,014.2	0.96	0.00	-0.96
15,334.0	91.00	178.40	7,609.3	-8,108.9	48.9	8,109.1	2.08	1.05	1.79
15,428.0	91.80	178.80	7,607.1	-8,202.9	51.2	8,203.0	0.95	0.85	0.43
15,522.0	90.10	178.60	7,605.5	-8,296.8	53.3	8,297.0	1.82	-1.81	-0.21
15,617.0	88.90	179.10	7,606.3	-8,391.8	55.2	8,392.0	1.37	-1.26	0.53
15,711.0	89.90	178.60	7,607.3	-8,485.8	57.1	8,486.0	1.19	1.06	-0.53
15,806.0	89.10	180.00	7,608.1	-8,580.8	58.2	8,581.0	1.70	-0.84	1.47
15,901.0	89.90	180.20	7,609.0	-8,675.8	58.1	8,676.0	0.87	0.84	0.21
15,995.0	90.60	179.70	7,608.6	-8,769.8	58.2	8,770.0	0.92	0.74	-0.53
16,090.0	89.30	178.40	7,608.6	-8,864.8	59.7	8,865.0	1.94	-1.37	-1.37
16,184.0	89.30	179.10	7,609.8	-8,958.7	61.8	8,958.9	0.74	0.00	0.74
16,279.0	90.00	178.80	7,610.4	-9,053.7	63.5	9,053.9	0.80	0.74	-0.32
16,373.0	90.70	178.30	7,609.8	-9,147.7	65.9	9,147.9	0.92	0.74	-0.53
16,468.0	89.40	179.00	7,609.7	-9,242.6	68.1	9,242.9	1.55	-1.37	0.74
16,563.0	90.70	178.40	7,609.6	-9,337.6	70.3	9,337.9	1.51	1.37	-0.63
16,657.0	94.50	177.90	7,605.4	-9,431.5	73.3	9,431.7	4.08	4.04	-0.53
16,752.0	92.70	178.80	7,599.4	-9,526.2	76.1	9,526.5	2.12	-1.89	0.95
16,847.0	90.40	178.40	7,596.8	-9,621.2	78.4	9,621.5	2.46	-2.42	-0.42
16,941.0	90.70	178.40	7,595.9	-9,715.1	81.0	9,715.4	0.32	0.32	0.00
17,035.0	89.40	178.80	7,595.8	-9,809.1	83.3	9,809.4	1.45	-1.38	0.43
17,130.0	89.80	179.00	7,596.5	-9,904.1	85.1	9,904.4	0.47	0.42	0.21
17,225.0	88.50	179.00	7,597.9	-9,999.0	86.8	9,999.4	1.37	-1.37	0.00
17,318.0	89.00	178.80	7,599.9	-10,092.0	88.6	10,092.4	0.58	0.54	-0.22
17,413.0	89.60	179.30	7,601.1	-10,187.0	90.1	10,187.4	0.82	0.63	0.53
17,507.0	90.70	179.00	7,600.9	-10,281.0	91.5	10,281.4	1.21	1.17	-0.32
17,596.0	90.80	179.30	7,599.7	-10,369.9	92.8	10,370.3	0.36	0.11	0.34
17,650.0	90.80	179.30	7,598.9	-10,423.9	93.5	10,424.3	0.00	0.00	0.00
17650' TD									

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Owl Draw 22 AP Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3148 + 20 @ 3168.0usft (Patterson#187)
Site:	Section 15/22/27-26S-27E Owl Draw 22 AP Fed #1H	MD Reference:	3148 + 20 @ 3168.0usft (Patterson#187)
Well:	Owl Draw 22 AP Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,650.0	7,598.9	-10,423.9	93.5	17650' TD



August 11, 2014

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Jackie Lathan

Re: Mewbourne Oil Company
Owl Draw 22 27 B2AP Federal Com #001H
Hay Hollow; Bone Spring
Eddy County, New Mexico
API# 30-015-41430

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Craig Estes	Original Hole	6,999 ft. to 17,596 ft.	06-24-14 to 07-11-14	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number


Todd Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Owl Draw 22 27 B2AP Federal Com #1H\M141137

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



August 11, 2014

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of June 24, 2014 thru July 11, 2014, conduct or supervise the taking of a SEDS MWD Survey from a depth of 6,999 feet to 17,596 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Owl Draw 22 27 B2AP Federal Com #001H well, API # **30-015-41430** in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

Todd Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



Job Number: M141137

Company: Mewbourne Oil Company

Lease/Well: Owl Draw 22 27 B2AP Fed Com # 1 HGrid: 7.40°

Location: Eddy County

Rig Name: Patterson Rig # 187

RKB: N/A

G.L. or M.S.L.: N/A

State/Country: New Mexico / USA

Declination: 7.40° Corrected To Grid

File name: C:\WINSERVE\DOCS\M141137.SVY

Date/Time: 31-Jul-14 / 10:58

Curve Name: SES MWD SURVEY RAN ON 6-24-14

Stryker Energy Directional Services, LLC.

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 179.60
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 Distance FT	Direction Deg	Dogleg Severity Deg/100
Tie-In Data Provided by MS Gyro Survey									
6925.00	1.83	157.58	6922.85	-46.70	30.09	46.91	55.55	147.21	.00
6999.00	7.50	180.90	6996.58	-52.63	30.47	52.84	60.81	149.93	7.92
7031.00	11.80	182.30	7028.12	-57.99	30.30	58.20	65.43	152.41	13.46
7062.00	15.30	183.50	7058.25	-65.24	29.92	65.45	71.77	155.36	11.33
7093.00	17.70	184.50	7087.97	-74.02	29.30	74.22	79.61	158.40	7.80
7124.00	18.80	184.50	7117.41	-83.70	28.54	83.90	88.43	161.17	3.55
7156.00	20.60	185.60	7147.54	-94.44	27.59	94.63	98.39	163.72	5.74
7187.00	24.70	185.90	7176.14	-106.32	26.39	106.50	109.54	166.06	13.23
7218.00	28.20	185.90	7203.89	-120.05	24.97	120.22	122.62	168.25	11.29
7250.00	30.90	185.60	7231.73	-135.75	23.39	135.91	137.75	170.22	8.45
7281.00	34.80	183.70	7257.77	-152.51	22.04	152.66	154.09	171.78	13.01
7313.00	38.50	183.40	7283.44	-171.57	20.86	171.71	172.83	173.07	11.58
7344.00	40.40	182.90	7307.37	-191.24	19.78	191.37	192.26	174.09	6.21
7376.00	43.00	182.20	7331.26	-212.50	18.84	212.63	213.33	174.93	8.25
7408.00	48.00	181.80	7353.68	-235.30	18.05	235.42	235.99	175.61	15.65
7440.00	52.70	182.60	7374.10	-259.92	17.09	260.03	260.48	176.24	14.81
7471.00	54.30	183.50	7392.54	-284.80	15.77	284.90	285.23	176.83	5.66
7503.00	56.20	183.20	7410.78	-311.05	14.23	311.14	311.37	177.38	5.99
7535.00	58.50	182.40	7428.04	-337.95	12.92	338.04	338.20	177.81	7.49
7567.00	60.50	181.90	7444.28	-365.51	11.88	365.58	365.70	178.14	6.39
7599.00	62.00	181.70	7459.67	-393.55	11.00	393.61	393.70	178.40	4.72
7630.00	64.00	181.50	7473.74	-421.16	10.23	421.22	421.28	178.61	6.48
7662.00	66.00	180.50	7487.27	-450.15	9.73	450.21	450.26	178.76	6.86
7694.00	68.00	179.90	7499.77	-479.61	9.63	479.66	479.70	178.85	6.48

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	
7725.00	70.80	179.40	7510.68	-508.62	9.81	508.68	508.71	178.90	9.16
7757.00	72.40	179.80	7520.78	-538.98	10.02	539.04	539.07	178.94	5.14
7789.00	74.30	180.40	7529.95	-569.64	9.96	569.69	569.73	179.00	6.20
7821.00	78.70	182.00	7537.41	-600.74	9.31	600.79	600.81	179.11	14.58
7853.00	83.90	183.40	7542.25	-632.32	7.82	632.36	632.37	179.29	16.82
7884.00	86.50	184.20	7544.85	-663.14	5.77	663.17	663.17	179.50	8.77
7916.00	87.70	184.60	7546.47	-695.01	3.32	695.01	695.02	179.73	3.95
7947.00	89.20	182.70	7547.30	-725.93	1.34	725.92	725.93	179.89	7.81
7975.00	90.20	180.70	7547.45	-753.92	.51	753.90	753.92	179.96	7.99
8070.00	89.10	179.50	7548.03	-848.91	.35	848.89	848.91	179.98	1.71
8165.00	88.20	179.30	7550.27	-943.88	1.34	943.87	943.88	179.92	.97
8260.00	89.30	180.10	7552.34	-1038.85	1.84	1038.84	1038.85	179.90	1.43
8356.00	88.10	179.00	7554.52	-1134.82	2.59	1134.81	1134.83	179.87	1.70
8451.00	87.30	179.20	7558.33	-1229.73	4.08	1229.73	1229.74	179.81	.87
8546.00	88.20	179.20	7562.06	-1324.65	5.41	1324.66	1324.66	179.77	.95
8641.00	86.60	179.20	7566.37	-1419.54	6.73	1419.55	1419.56	179.73	1.68
8736.00	87.20	178.50	7571.51	-1514.38	8.64	1514.40	1514.41	179.67	.97
8832.00	87.60	178.90	7575.86	-1610.26	10.81	1610.29	1610.29	179.62	.59
8927.00	87.60	181.30	7579.84	-1705.17	10.65	1705.20	1705.20	179.64	2.52
9022.00	89.30	182.00	7582.41	-1800.09	7.91	1800.10	1800.11	179.75	1.94
9117.00	90.20	181.10	7582.83	-1895.05	5.34	1895.04	1895.06	179.84	1.34
9212.00	90.50	180.60	7582.25	-1990.04	3.93	1990.02	1990.04	179.89	.61
9306.00	91.30	180.30	7580.77	-2084.02	3.20	2083.99	2084.02	179.91	.91
9401.00	89.70	181.10	7579.94	-2179.01	2.04	2178.97	2179.01	179.95	1.88
9495.00	88.40	181.10	7581.50	-2272.98	.23	2272.92	2272.98	179.99	1.38
9590.00	88.90	181.50	7583.74	-2367.92	-1.92	2367.85	2367.93	180.05	.67
9684.00	90.20	181.20	7584.48	-2461.89	-4.14	2461.80	2461.90	180.10	1.42
9779.00	89.40	181.20	7584.81	-2556.87	-6.13	2556.77	2556.88	180.14	.84
9873.00	89.80	181.10	7585.46	-2650.85	-8.01	2650.73	2650.86	180.17	.44
9968.00	88.10	181.60	7587.20	-2745.80	-10.25	2745.66	2745.82	180.21	1.87
10062.00	88.10	181.20	7590.32	-2839.72	-12.55	2839.57	2839.75	180.25	.43
10157.00	90.00	181.70	7591.90	-2934.68	-14.95	2934.50	2934.71	180.29	2.07
10253.00	90.70	181.00	7591.31	-3030.65	-17.21	3030.45	3030.69	180.33	1.03
10347.00	91.50	180.40	7589.51	-3124.62	-18.36	3124.42	3124.67	180.34	1.06
10442.00	89.50	180.30	7588.68	-3219.61	-18.94	3219.40	3219.67	180.34	2.11
10537.00	90.90	181.10	7588.34	-3314.60	-20.10	3314.38	3314.66	180.35	1.70
10632.00	90.50	179.10	7587.18	-3409.59	-20.27	3409.36	3409.65	180.34	2.15
10727.00	89.10	178.10	7587.52	-3504.55	-17.95	3504.34	3504.60	180.29	1.81
10822.00	89.20	177.00	7588.92	-3599.46	-13.89	3599.27	3599.48	180.22	1.16
10917.00	89.60	176.50	7589.92	-3694.30	-8.50	3694.15	3694.31	180.13	.67
11012.00	91.30	175.30	7589.17	-3789.05	-1.71	3788.94	3789.05	180.03	2.19
11107.00	90.90	177.20	7587.35	-3883.82	4.50	3883.76	3883.82	179.93	2.04
11202.00	89.50	178.30	7587.02	-3978.74	8.23	3978.70	3978.75	179.88	1.87
11297.00	89.10	179.20	7588.18	-4073.71	10.30	4073.68	4073.73	179.86	1.04
11391.00	85.80	178.80	7592.36	-4167.59	11.94	4167.57	4167.61	179.84	3.54

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	
11486.00	86.50	179.30	7598.74	-4262.36	13.51	4262.35	4262.38	179.82	.90
11581.00	88.20	179.80	7603.13	-4357.25	14.26	4357.25	4357.28	179.81	1.87
11675.00	91.10	179.80	7603.71	-4451.24	14.59	4451.24	4451.27	179.81	3.09
11769.00	92.10	179.80	7601.08	-4545.20	14.92	4545.20	4545.23	179.81	1.06
11864.00	89.50	179.60	7599.75	-4640.19	15.41	4640.18	4640.21	179.81	2.74
11959.00	89.80	179.50	7600.33	-4735.18	16.16	4735.18	4735.21	179.80	.33
12053.00	90.10	178.00	7600.42	-4829.16	18.21	4829.16	4829.19	179.78	1.63
12148.00	90.00	178.50	7600.33	-4924.11	21.11	4924.14	4924.16	179.75	.54
12243.00	90.60	178.40	7599.84	-5019.07	23.68	5019.12	5019.13	179.73	.64
12338.00	91.00	178.90	7598.51	-5114.04	25.92	5114.09	5114.10	179.71	.67
12432.00	91.10	178.10	7596.79	-5207.99	28.38	5208.06	5208.07	179.69	.86
12527.00	88.90	178.30	7596.79	-5302.94	31.36	5303.03	5303.03	179.66	2.33
12622.00	88.70	179.20	7598.78	-5397.89	33.43	5397.99	5398.00	179.65	.97
12717.00	89.70	180.20	7600.10	-5492.88	33.93	5492.98	5492.98	179.65	1.49
12811.00	90.50	181.00	7599.94	-5586.87	32.95	5586.97	5586.97	179.66	1.20
12906.00	91.20	180.80	7598.53	-5681.85	31.46	5681.93	5681.94	179.68	.77
13000.00	90.80	180.40	7596.89	-5775.83	30.47	5775.90	5775.91	179.70	.60
13095.00	90.50	180.80	7595.81	-5870.82	29.48	5870.88	5870.89	179.71	.53
13189.00	90.20	181.40	7595.24	-5964.80	27.67	5964.85	5964.86	179.73	.71
13284.00	89.90	181.30	7595.15	-6059.77	25.43	6059.80	6059.83	179.76	.33
13379.00	89.30	181.20	7595.82	-6154.75	23.36	6154.76	6154.79	179.78	.64
13473.00	88.70	181.40	7597.46	-6248.71	21.23	6248.70	6248.74	179.81	.67
13568.00	89.80	181.20	7598.70	-6343.67	19.07	6343.65	6343.70	179.83	1.18
13631.00	89.00	180.90	7599.36	-6406.66	17.92	6406.63	6406.68	179.84	1.36
13726.00	89.00	180.50	7601.02	-6501.64	16.76	6501.60	6501.66	179.85	.42
13821.00	89.40	179.50	7602.35	-6596.63	16.76	6596.58	6596.65	179.85	1.13
13916.00	90.20	178.70	7602.68	-6691.61	18.25	6691.58	6691.64	179.84	1.19
14010.00	91.30	178.50	7601.45	-6785.57	20.55	6785.55	6785.61	179.83	1.19
14105.00	88.50	180.00	7601.61	-6880.55	21.79	6880.54	6880.59	179.82	3.34
14199.00	89.00	179.40	7603.66	-6974.53	22.28	6974.52	6974.57	179.82	.83
14294.00	90.00	179.60	7604.49	-7069.52	23.11	7069.51	7069.56	179.81	1.07
14388.00	91.00	179.10	7603.67	-7163.51	24.18	7163.50	7163.55	179.81	1.19
14482.00	91.70	179.10	7601.46	-7257.47	25.65	7257.47	7257.52	179.80	.74
14577.00	88.40	178.80	7601.37	-7352.44	27.40	7352.46	7352.49	179.79	3.49
14671.00	88.50	179.50	7603.92	-7446.40	28.79	7446.42	7446.45	179.78	.75
14766.00	88.10	179.00	7606.74	-7541.35	30.03	7541.37	7541.41	179.77	.67
14861.00	89.30	178.80	7608.89	-7636.30	31.86	7636.34	7636.37	179.76	1.28
14955.00	89.60	178.40	7609.79	-7730.27	34.15	7730.32	7730.35	179.75	.53
15050.00	90.00	178.40	7610.12	-7825.23	36.80	7825.30	7825.32	179.73	.42
15145.00	90.00	177.60	7610.12	-7920.17	40.12	7920.26	7920.28	179.71	.84
15239.00	90.00	176.70	7610.12	-8014.06	44.79	8014.17	8014.18	179.68	.96
15334.00	91.00	178.40	7609.30	-8108.96	48.85	8109.11	8109.11	179.65	2.08
15428.00	91.80	178.80	7607.00	-8202.90	51.15	8203.06	8203.06	179.64	.95
15522.00	90.10	178.60	7605.44	-8296.86	53.28	8297.03	8297.04	179.63	1.82
15617.00	88.90	179.10	7606.27	-8391.84	55.19	8392.02	8392.02	179.62	1.37

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	
15711.00	89.90	178.60	7607.25	-8485.81	57.08	8486.01	8486.01	179.61	1.19
15806.00	89.10	180.00	7608.08	-8580.80	58.24	8581.00	8581.00	179.61	1.70
15901.00	89.90	180.20	7608.91	-8675.80	58.07	8675.99	8675.99	179.62	.87
15995.00	90.60	179.70	7608.50	-8769.79	58.15	8769.99	8769.99	179.62	.92
16090.00	89.30	178.40	7608.58	-8864.78	59.73	8864.98	8864.98	179.61	1.94
16184.00	89.30	179.10	7609.73	-8958.75	61.78	8958.96	8958.96	179.60	.74
16279.00	90.00	178.80	7610.31	-9053.73	63.52	9053.95	9053.95	179.60	.80
16373.00	90.70	178.30	7609.74	-9147.70	65.90	9147.93	9147.93	179.59	.92
16468.00	89.40	179.00	7609.66	-9242.67	68.14	9242.92	9242.92	179.58	1.55
16563.00	90.70	178.40	7609.57	-9337.64	70.29	9337.90	9337.90	179.57	1.51
16657.00	94.50	177.90	7605.31	-9431.48	73.32	9431.76	9431.76	179.55	4.08
16752.00	92.70	178.80	7599.35	-9526.24	76.05	9526.54	9526.55	179.54	2.12
16847.00	90.40	178.40	7596.78	-9621.17	78.37	9621.49	9621.49	179.53	2.46
16941.00	90.70	178.40	7595.87	-9715.13	80.99	9715.46	9715.47	179.52	.32
17035.00	89.40	178.80	7595.79	-9809.10	83.29	9809.45	9809.46	179.51	1.45
17130.00	89.90	178.30	7596.37	-9904.07	85.70	9904.43	9904.44	179.50	.74
17225.00	88.50	179.00	7597.70	-9999.03	87.93	9999.40	9999.42	179.50	1.65
17318.00	89.00	178.80	7599.73	-10091.99	89.72	10092.37	10092.39	179.49	.58
17413.00	89.60	179.30	7600.89	-10186.97	91.29	10187.36	10187.38	179.49	.82
17507.00	90.70	179.00	7600.64	-10280.96	92.69	10281.36	10281.38	179.48	1.21
17596.00	90.80	179.30	7599.48	-10369.94	94.01	10370.35	10370.37	179.48	.36
Projection to Total Depth									
17650.00	90.80	179.30	7598.72	-10423.93	94.67	10424.34	10424.36	179.48	.00



Job Number: SYMO-140858
 Company: Mewbourne Oil & Gas
 Lease/Well: Owl Draw 22-27 B2AP Fed Com 1H
 Location: Eddy County, NM
 Rig Name: Patterson #187
 RKB: 27'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.42°
 Grid: East To Grid North
 File name: S:\2014SU~1\MEWBOU~1\MO\OWLDRA~1\1H.SVY
 Date/Time: 25-Jun-14 / 16:14
 Curve Name: Surface - 6925' M.D. (Rate Gyro)

MS SURVEY

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

We hereby certify that our survey data from
 Surface MD to 6925' MD is, to the best of
 our knowledge a true and accurate account of the
 well bore.
 Travis Pack 6/25/14
 MS Energy Services Date

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	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.32	179.32	100.00	-.28	.00	-.28	.28	179.32	.32
200.00	.65	230.63	200.00	-.92	-.43	-.92	1.01	205.19	.51
300.00	1.01	221.08	299.99	-1.94	-1.45	-1.94	2.42	216.73	.38
400.00	1.05	230.28	399.97	-3.19	-2.73	-3.19	4.20	220.57	.17
500.00	1.11	245.60	499.95	-4.18	-4.32	-4.18	6.01	225.96	.29
600.00	.79	254.04	599.94	-4.77	-5.87	-4.77	7.56	230.89	.35
700.00	1.10	254.84	699.92	-5.21	-7.45	-5.21	9.09	235.06	.31
800.00	1.23	268.14	799.90	-5.49	-9.45	-5.49	10.93	239.84	.30
900.00	1.51	266.07	899.88	-5.62	-11.84	-5.62	13.11	244.61	.28

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	1.41	265.33	999.84	-5.81	-14.38	-5.81	15.51	248.00	.10
1100.00	1.38	271.13	1099.81	-5.89	-16.81	-5.89	17.81	250.70	.14
1200.00	1.54	273.51	1199.78	-5.78	-19.36	-5.78	20.20	253.37	.17
1300.00	1.63	269.42	1299.74	-5.71	-22.12	-5.71	22.85	255.52	.14
1400.00	1.85	266.77	1399.70	-5.82	-25.15	-5.82	25.82	256.98	.23
1500.00	.41	49.21	1499.68	-5.67	-26.49	-5.67	27.10	257.91	2.19
1600.00	1.09	70.64	1599.67	-5.13	-25.33	-5.13	25.84	258.56	.72
1700.00	2.10	73.02	1699.63	-4.28	-22.68	-4.28	23.08	259.32	1.01
1800.00	3.26	78.78	1799.52	-3.19	-18.14	-3.19	18.41	260.03	1.19
1900.00	3.99	86.79	1899.32	-2.44	-11.87	-2.44	12.12	258.39	.89
2000.00	4.03	87.70	1999.08	-2.10	-4.89	-2.10	5.32	246.72	.08
2100.00	3.02	89.84	2098.89	-1.95	1.26	-1.95	2.32	147.24	1.02
2200.00	2.33	84.31	2198.78	-1.75	5.91	-1.75	6.17	106.44	.74
2300.00	2.35	86.96	2298.69	-1.44	9.98	-1.44	10.09	98.18	.11
2400.00	2.10	84.57	2398.62	-1.15	13.86	-1.15	13.90	94.76	.27
2500.00	1.72	85.66	2498.56	-.87	17.18	-.87	17.20	92.89	.38
2600.00	1.85	75.86	2598.51	-.36	20.24	-.36	20.24	91.01	.33
2700.00	1.56	87.46	2698.47	.10	23.16	.10	23.16	89.76	.45
2800.00	.92	94.68	2798.45	.09	25.32	.09	25.32	89.79	.66
2900.00	.75	106.77	2898.43	-.16	26.75	-.16	26.75	90.35	.24
3000.00	.33	127.42	2998.43	-.53	27.61	-.53	27.61	91.09	.46
3100.00	.37	115.85	3098.43	-.84	28.12	-.84	28.14	91.72	.08
3200.00	.39	91.37	3198.43	-.99	28.76	-.99	28.77	91.98	.16
3300.00	.37	56.70	3298.42	-.82	29.37	-.82	29.38	91.60	.23
3400.00	.33	102.01	3398.42	-.71	29.92	-.71	29.93	91.35	.27
3500.00	.33	51.93	3498.42	-.59	30.43	-.59	30.43	91.11	.28
3600.00	.27	245.02	3598.42	-.51	30.44	-.51	30.44	90.96	.60
3700.00	.15	108.06	3698.42	-.65	30.35	-.65	30.36	91.23	.39
3800.00	.15	196.14	3798.42	-.82	30.44	-.82	30.45	91.54	.21

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	.77	186.17	3898.42	-1.61	30.33	-1.61	30.37	93.04	.62
4000.00	.46	169.34	3998.41	-2.67	30.33	-2.67	30.45	95.04	.36
4100.00	.50	211.00	4098.41	-3.44	30.18	-3.44	30.38	96.50	.34
4200.00	.92	208.54	4198.40	-4.52	29.57	-4.52	29.92	98.69	.42
4300.00	.69	200.60	4298.39	-5.79	28.98	-5.79	29.55	101.30	.26
4400.00	.77	192.29	4398.38	-7.01	28.62	-7.01	29.47	103.76	.13
4500.00	.61	204.60	4498.37	-8.15	28.26	-8.15	29.41	106.09	.22
4600.00	.43	217.75	4598.37	-8.93	27.81	-8.93	29.20	107.81	.21
4700.00	.41	216.56	4698.37	-9.51	27.36	-9.51	28.97	109.17	.02
4800.00	.74	219.95	4798.36	-10.30	26.74	-10.30	28.65	111.06	.33
4900.00	.51	240.77	4898.36	-11.01	25.93	-11.01	28.17	113.00	.32
5000.00	.53	225.95	4998.35	-11.55	25.21	-11.55	27.73	114.61	.14
5100.00	.68	220.08	5098.35	-12.32	24.50	-12.32	27.42	116.71	.16
5200.00	.33	206.45	5198.34	-13.04	23.99	-13.04	27.30	118.52	.37
5300.00	.59	221.54	5298.34	-13.68	23.52	-13.68	27.21	120.18	.28
5400.00	.74	177.25	5398.33	-14.71	23.21	-14.71	27.48	122.37	.52
5500.00	.60	189.91	5498.33	-15.87	23.15	-15.87	28.07	124.43	.20
5600.00	.74	169.44	5598.32	-17.02	23.18	-17.02	28.75	126.29	.28
5700.00	.65	164.13	5698.31	-18.20	23.45	-18.20	29.68	127.82	.11
5800.00	.27	197.70	5798.31	-18.97	23.53	-18.97	30.23	128.87	.45
5900.00	.50	169.90	5898.31	-19.63	23.54	-19.63	30.65	129.82	.29
6000.00	.61	172.49	5998.30	-20.58	23.68	-20.58	31.38	130.99	.11
6100.00	.64	189.45	6098.30	-21.66	23.66	-21.66	32.08	132.47	.19
6200.00	1.12	186.30	6198.28	-23.18	23.46	-23.18	32.98	134.66	.48
6300.00	1.58	172.36	6298.26	-25.52	23.54	-25.52	34.72	137.31	.56
6400.00	2.16	173.27	6398.20	-28.76	23.94	-28.76	37.42	140.22	.58
6500.00	1.82	164.57	6498.14	-32.16	24.59	-32.16	40.48	142.60	.45
6600.00	2.15	156.47	6598.08	-35.41	25.76	-35.41	43.79	143.97	.43
6700.00	2.35	159.07	6698.01	-39.05	27.24	-39.05	47.61	145.10	.22

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	2.04	160.83	6797.93	-42.64	28.56	-42.64	51.32	146.19	.32
6900.00	1.98	158.19	6897.87	-45.93	29.78	-45.93	54.74	147.04	.11
Last Survey Depth Recorded									
6925.00	1.83	157.58	6922.86	-46.70	30.09	-46.70	55.56	147.20	.61



COMPANY: Mewbourne Oil Company
 WELL: Owl Draw 22 AP Fed Com #1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson#187

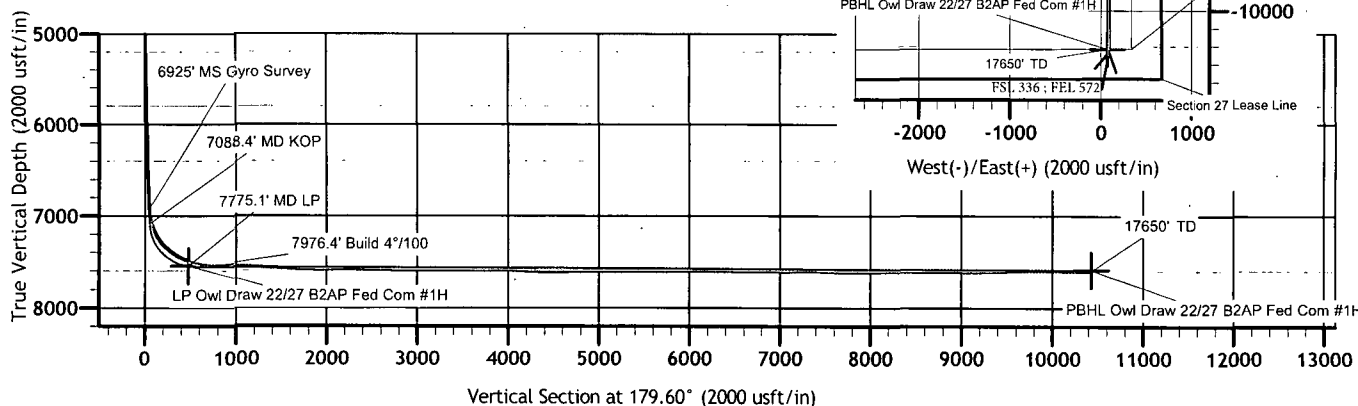
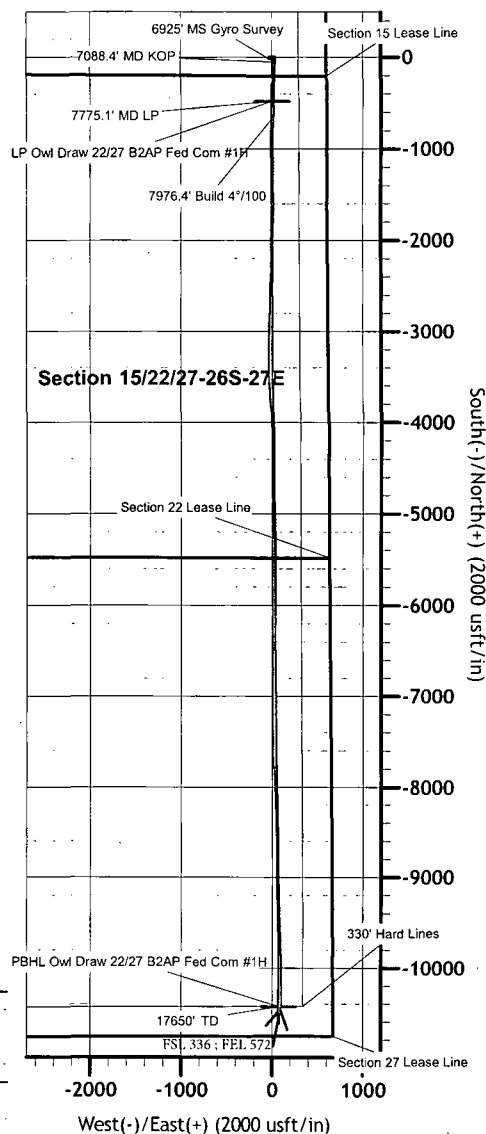
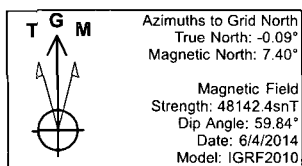


OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.40°

GEODETIC ZONE: New Mexico East 3001 3148 + 20 @ 3168.0usft (Patterson#187) GROUND ELEVATION: 3148.0										Slot
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude					
0.0	0.0	376587.46	550341.64	32° 2' 6.898 N	104° 10' 15.154 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSection	Target
1	6925.0	1.83	157.58	6922.9	-46.7	30.1	0.00	0.00	46.9	
2	7088.4	1.83	157.58	7086.2	-51.5	32.1	0.00	0.00	51.7	
3	7775.1	83.92	185.01	7548.0	-477.7	0.9	11.98	27.53	477.7	
4	7976.4	89.83	179.53	7559.0	-678.4	-7.0	4.00	-42.97	678.3	
5	17724.3	89.83	179.53	7588.0	-10425.9	72.8	0.00	0.00	10426.2	PBHL Owl Draw 22/27 B2AP Fed Com #1H

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
LP Owl Draw 22/27 B2AP Fed Com #1H	7548.0	-477.7	0.9	376109.77	550342.58	32° 2' 2.170 N	104° 10' 15.151 W	Point	
PBHL Owl Draw 22/27 B2AP Fed Com #1H	7588.0	-10425.9	72.8	366161.53	550414.40	32° 0' 23.715 N	104° 10' 14.491 W	Point	
- plan hits target center									



OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
Owl Draw 22/27 B2AP Fed Com 1H
EDDY

187-0017

STATE OF NEW MEXICO
DEVIATION REPORT

238

0.50

15-41430

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 13 2014

RECEIVED

BY: _____

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on
Daisy Carrillo on behalf of Patterson-UTi Drilling Company LLC.

8/13/14

, by

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

