



15-42829

Mewbourne Oil Company .

Eddy County, New Mexico

Section 22/27-26S-27E Owl Draw 22 27B2BO

Owl Draw 22 27 B2BO Fed Com #2H

Original Hole

Design: Original Hole

Standard Survey Report

13 March, 2015





Stryker Directional Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 22/27-26S-27E Owl Draw 22 27B2BO
Well: Owl Draw 22 27 B2BO Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Owl Draw 22 27 B2BO Fed Com #2H
TVD Reference: 3149 + 20 @ 3169.0usft (Patterson #243)
MD Reference: 3149 + 20 @ 3169.0usft (Patterson #243)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 22/27-26S-27E Owl Draw 22 27B2BO

Site Position: **Map** **Northing:** 376,063.37 usft **Latitude:** 32° 2' 1.726 N
From: **Easting:** 549,359.17 usft **Longitude:** 104° 10' 26.577 W
Position Uncertainty: 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.08 °

Well Owl Draw 22 27 B2BO Fed Com #2H

Well Position **+N/-S** 0.0 usft **Northing:** 376,063.37 usft **Latitude:** 32° 2' 1.726 N
+E/-W 0.0 usft **Easting:** 549,359.17 usft **Longitude:** 104° 10' 26.577 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 0.0 usft **Ground Level:** 3,149.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/10/2015	7.47	59.82	48,002

Design Original Hole

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	181.85

Survey Program Date 3/13/2015

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	6,890.0	VES Gyro Survey (Original Hole)	GyroFlex	
6,968.0	17,181.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.69	162.92	100.0	-0.6	0.2	0.6	0.69	0.69	0.00
200.0	0.74	162.83	200.0	-1.8	0.5	1.7	0.05	0.05	-0.09
300.0	0.91	166.80	300.0	-3.2	0.9	3.1	0.18	0.17	3.97
400.0	1.01	180.22	400.0	-4.8	1.1	4.8	0.25	0.10	13.42
500.0	0.17	142.42	500.0	-5.8	1.2	5.8	0.88	-0.84	-37.80
600.0	0.07	261.88	600.0	-5.9	1.2	5.9	0.21	-0.10	119.46
700.0	0.04	223.90	700.0	-6.0	1.1	5.9	0.05	-0.03	-37.98
800.0	0.05	238.76	800.0	-6.0	1.1	6.0	0.02	0.01	14.86
900.0	0.05	241.48	900.0	-6.1	1.0	6.0	0.00	0.00	2.72



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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	0.03	22.54	1,000.0	-6.1	1.0	6.0	0.08	-0.02	141.06
1,100.0	0.06	295.82	1,100.0	-6.0	0.9	6.0	0.07	0.03	-86.72
1,200.0	0.07	280.51	1,200.0	-6.0	0.8	5.9	0.02	0.01	-15.31
1,300.0	0.07	32.33	1,300.0	-5.9	0.8	5.9	0.12	0.00	111.82
1,400.0	0.04	328.27	1,400.0	-5.8	0.8	5.8	0.06	-0.03	-64.06
1,500.0	0.04	167.51	1,500.0	-5.8	0.8	5.8	0.08	0.00	-160.76
1,600.0	0.08	339.93	1,600.0	-5.8	0.8	5.8	0.12	0.04	172.42
1,700.0	0.37	289.37	1,700.0	-5.6	0.4	5.6	0.33	0.29	-50.56
1,800.0	0.40	123.52	1,800.0	-5.7	0.4	5.7	0.76	0.03	-165.85
1,900.0	0.73	102.58	1,900.0	-6.1	1.3	6.0	0.38	0.33	-20.94
2,000.0	0.47	208.49	1,999.9	-6.6	1.8	6.5	0.97	-0.26	105.91
2,100.0	0.45	161.99	2,099.9	-7.3	1.7	7.2	0.36	-0.02	-46.50
2,200.0	0.30	10.04	2,199.9	-7.4	1.9	7.3	0.73	-0.15	-151.95
2,300.0	0.13	162.70	2,299.9	-7.3	1.9	7.2	0.42	-0.17	152.66
2,400.0	0.28	41.25	2,399.9	-7.2	2.1	7.1	0.37	0.15	-121.45
2,500.0	0.57	220.96	2,499.9	-7.4	2.0	7.3	0.85	0.29	179.71
2,600.0	0.81	155.93	2,599.9	-8.4	1.9	8.3	0.77	0.24	-65.03
2,700.0	0.57	80.37	2,699.9	-9.0	2.7	8.9	0.87	-0.24	-75.56
2,800.0	0.55	204.81	2,799.9	-9.3	3.0	9.2	0.99	-0.02	124.44
2,900.0	0.64	164.72	2,899.9	-10.3	3.0	10.2	0.42	0.09	-40.09
3,000.0	0.07	100.55	2,999.9	-10.8	3.2	10.7	0.61	-0.57	-64.17
3,100.0	0.68	102.54	3,099.9	-11.0	3.8	10.8	0.61	0.61	1.99
3,200.0	0.91	131.24	3,199.9	-11.6	5.0	11.5	0.45	0.23	28.70
3,300.0	0.83	168.29	3,299.9	-12.9	5.7	12.7	0.56	-0.08	37.05
3,400.0	1.24	190.75	3,399.9	-14.6	5.7	14.4	0.57	0.41	22.46
3,500.0	1.01	240.20	3,499.9	-16.1	4.7	16.0	0.96	-0.23	49.45
3,600.0	0.89	287.63	3,599.9	-16.3	3.2	16.2	0.77	-0.12	47.43
3,700.0	1.33	284.70	3,699.8	-15.8	1.3	15.7	0.44	0.44	-2.93
3,800.0	0.75	269.47	3,799.8	-15.5	-0.4	15.5	0.64	-0.58	-15.23
3,900.0	1.02	262.72	3,899.8	-15.6	-2.0	15.7	0.29	0.27	-6.75
4,000.0	0.45	246.30	3,999.8	-15.9	-3.2	16.0	0.60	-0.57	-16.42
4,100.0	0.91	234.39	4,099.8	-16.5	-4.2	16.6	0.48	0.46	-11.91
4,200.0	1.20	195.47	4,199.8	-18.0	-5.2	18.1	0.75	0.29	-38.92
4,300.0	1.10	113.15	4,299.8	-19.4	-4.6	19.5	1.52	-0.10	-82.32
4,400.0	1.03	94.07	4,399.7	-19.8	-2.8	19.9	0.36	-0.07	-19.08
4,500.0	1.33	99.74	4,499.7	-20.1	-0.7	20.1	0.32	0.30	5.67
4,600.0	1.10	54.12	4,599.7	-19.7	1.2	19.7	0.97	-0.23	-45.62
4,700.0	1.10	2.11	4,699.7	-18.2	2.0	18.1	0.96	0.00	-52.01
4,800.0	0.93	347.60	4,799.7	-16.4	1.9	16.4	0.31	-0.17	-14.51
4,900.0	0.87	293.70	4,899.7	-15.3	1.0	15.3	0.82	-0.06	-53.90
5,000.0	1.06	258.61	4,999.6	-15.2	-0.6	15.2	0.61	0.19	-35.09
5,100.0	0.96	201.41	5,099.6	-16.2	-1.8	16.2	0.97	-0.10	-57.20
5,200.0	1.04	152.82	5,199.6	-17.8	-1.7	17.8	0.83	0.08	-48.59



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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	1.18	108.17	5,299.6	-18.9	-0.3	18.9	0.85	0.14	-44.65
5,400.0	0.23	92.74	5,399.6	-19.2	0.9	19.2	0.96	-0.95	-15.43
5,500.0	0.07	154.86	5,499.6	-19.3	1.1	19.2	0.21	-0.16	62.12
5,600.0	0.48	178.44	5,599.6	-19.8	1.1	19.7	0.42	0.41	23.58
5,700.0	2.00	191.45	5,699.6	-21.9	0.8	21.9	1.54	1.52	13.01
5,800.0	1.76	207.98	5,799.5	-25.0	-0.3	25.0	0.59	-0.24	16.53
5,900.0	0.83	194.49	5,899.5	-27.0	-1.2	27.0	0.97	-0.93	-13.49
6,000.0	0.82	243.73	5,999.5	-28.0	-2.0	28.1	0.69	-0.01	49.24
6,100.0	1.32	245.18	6,099.5	-28.8	-3.7	28.9	0.50	0.50	1.45
6,200.0	1.03	233.85	6,199.4	-29.9	-5.5	30.0	0.37	-0.29	-11.33
6,300.0	1.17	233.23	6,299.4	-31.0	-7.0	31.2	0.14	0.14	-0.62
6,400.0	1.19	265.97	6,399.4	-31.7	-8.9	31.9	0.67	0.02	32.74
6,500.0	1.94	261.22	6,499.4	-32.0	-11.6	32.4	0.76	0.75	-4.75
6,600.0	2.81	270.21	6,599.3	-32.3	-15.7	32.7	0.94	0.87	8.99
6,700.0	2.35	254.47	6,699.2	-32.8	-20.1	33.4	0.84	-0.46	-15.74
6,800.0	2.44	261.31	6,799.1	-33.7	-24.2	34.4	0.30	0.09	6.84
6,890.0	2.26	265.19	6,889.0	-34.1	-27.9	35.0	0.27	-0.20	4.31
6890' MD VES Gyro Survey Tie-In									
6,968.0	3.60	248.40	6,966.9	-35.1	-31.7	36.1	2.02	1.72	-21.53
7,000.0	8.70	233.80	6,998.7	-36.9	-34.6	38.0	16.54	15.94	-45.63
7,032.0	12.50	220.90	7,030.2	-41.0	-38.8	42.2	13.93	11.88	-40.31
7,064.0	15.80	220.30	7,061.2	-46.9	-43.9	48.3	10.32	10.31	-1.88
7,095.0	18.80	219.50	7,090.8	-54.0	-49.8	55.6	9.71	9.68	-2.58
7,127.0	21.80	213.60	7,120.8	-62.9	-56.3	64.7	11.34	9.38	-18.44
7,158.0	25.10	209.80	7,149.2	-73.4	-62.8	75.4	11.70	10.65	-12.26
7,189.0	28.70	205.70	7,176.9	-85.9	-69.3	88.0	13.06	11.61	-13.23
7,221.0	31.30	203.70	7,204.6	-100.4	-76.0	102.8	8.70	8.13	-6.25
7,253.0	31.70	201.50	7,231.9	-115.8	-82.4	118.4	3.80	1.25	-6.88
7,284.0	31.30	199.80	7,258.3	-131.0	-88.1	133.8	3.14	-1.29	-5.48
7,315.0	30.50	200.60	7,284.9	-145.9	-93.6	148.9	2.90	-2.58	2.58
7,347.0	28.70	200.30	7,312.7	-160.7	-99.1	163.8	5.64	-5.63	-0.94
7,379.0	28.40	200.90	7,340.8	-175.0	-104.5	178.3	1.30	-0.94	1.88
7,410.0	31.20	198.70	7,367.7	-189.5	-109.7	193.0	9.70	9.03	-7.10
7,442.0	34.10	196.10	7,394.7	-206.0	-114.9	209.6	10.07	9.06	-8.13
7,473.0	37.10	194.40	7,419.9	-223.4	-119.6	227.2	10.19	9.68	-5.48
7,504.0	40.20	193.30	7,444.1	-242.2	-124.2	246.1	10.24	10.00	-3.55
7,536.0	43.60	191.80	7,467.9	-263.1	-128.9	267.1	11.08	10.63	-4.69
7,567.0	47.10	190.90	7,489.7	-284.7	-133.2	288.9	11.48	11.29	-2.90
7,598.0	50.20	189.20	7,510.2	-307.6	-137.2	311.9	10.81	10.00	-5.48
7,630.0	53.10	188.20	7,530.0	-332.4	-141.0	336.8	9.39	9.06	-3.13
7,662.0	56.90	186.90	7,548.4	-358.4	-144.5	362.9	12.33	11.88	-4.06
7,693.0	61.30	185.90	7,564.3	-384.8	-147.4	389.4	14.46	14.19	-3.23
7,725.0	65.70	184.20	7,578.6	-413.3	-149.9	418.0	14.55	13.75	-5.31



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7,756.0	71.50	183.40	7,589.9	-442.1	-151.9	446.8	18.86	18.71	-2.58
7,788.0	77.80	183.60	7,598.3	-472.9	-153.7	477.6	19.70	19.69	0.63
7,819.0	83.40	183.20	7,603.4	-503.4	-155.6	508.2	18.11	18.06	-1.29
7,849.0	88.70	183.10	7,605.5	-533.3	-157.2	538.1	17.67	17.67	-0.33
7,912.0	91.30	182.20	7,605.5	-596.2	-160.1	601.1	4.37	4.13	-1.43
8,005.0	92.40	181.90	7,602.5	-689.1	-163.4	694.0	1.23	1.18	-0.32
8,099.0	91.00	180.30	7,599.7	-783.1	-165.2	788.0	2.26	-1.49	-1.70
8,193.0	90.30	180.00	7,598.6	-877.1	-165.5	881.9	0.81	-0.74	-0.32
8,287.0	89.60	179.40	7,598.7	-971.1	-165.0	975.9	0.98	-0.74	-0.64
8,381.0	90.50	179.50	7,598.6	-1,065.0	-164.1	1,069.8	0.96	0.96	0.11
8,475.0	89.60	179.10	7,598.5	-1,159.0	-162.9	1,163.7	1.05	-0.96	-0.43
8,570.0	90.50	178.80	7,598.4	-1,254.0	-161.2	1,258.6	1.00	0.95	-0.32
8,665.0	89.80	178.10	7,598.2	-1,349.0	-158.6	1,353.4	1.04	-0.74	-0.74
8,759.0	89.80	178.90	7,598.5	-1,443.0	-156.2	1,447.2	0.85	0.00	0.85
8,854.0	90.90	179.00	7,597.9	-1,537.9	-154.4	1,542.1	1.16	1.16	0.11
8,948.0	88.50	178.50	7,598.4	-1,631.9	-152.4	1,636.0	2.61	-2.55	-0.53
9,043.0	88.80	178.70	7,600.7	-1,726.8	-150.1	1,730.8	0.38	0.32	0.21
9,137.0	89.20	178.30	7,602.3	-1,820.8	-147.6	1,824.6	0.60	0.43	-0.43
9,231.0	90.20	178.60	7,602.8	-1,914.8	-145.1	1,918.4	1.11	1.06	0.32
9,326.0	91.10	178.90	7,601.7	-2,009.7	-143.0	2,013.3	1.00	0.95	0.32
9,420.0	91.00	180.50	7,600.0	-2,103.7	-142.5	2,107.2	1.71	-0.11	1.70
9,515.0	92.10	180.80	7,597.4	-2,198.7	-143.6	2,202.2	1.20	1.16	0.32
9,608.0	90.70	180.60	7,595.2	-2,291.6	-144.7	2,295.1	1.52	-1.51	-0.22
9,703.0	89.30	180.90	7,595.2	-2,386.6	-145.9	2,390.1	1.51	-1.47	0.32
9,797.0	89.80	179.90	7,595.9	-2,480.6	-146.6	2,484.1	1.19	0.53	-1.06
9,892.0	89.80	178.70	7,596.2	-2,575.6	-145.4	2,579.0	1.26	0.00	-1.26
9,986.0	90.20	180.10	7,596.2	-2,669.6	-144.5	2,672.9	1.55	0.43	1.49
10,080.0	90.80	179.30	7,595.4	-2,763.6	-144.0	2,766.8	1.06	0.64	-0.85
10,175.0	90.60	180.40	7,594.3	-2,858.6	-143.7	2,861.7	1.18	-0.21	1.16
10,269.0	89.80	181.90	7,593.9	-2,952.6	-145.6	2,955.7	1.81	-0.85	1.60
10,364.0	90.30	181.50	7,593.8	-3,047.5	-148.4	3,050.7	0.67	0.53	-0.42
10,459.0	90.70	180.90	7,593.0	-3,142.5	-150.4	3,145.7	0.76	0.42	-0.63
10,554.0	88.80	182.60	7,593.4	-3,237.4	-153.3	3,240.7	2.68	-2.00	1.79
10,649.0	88.70	182.40	7,595.5	-3,332.3	-157.5	3,335.7	0.24	-0.11	-0.21
10,743.0	89.80	182.40	7,596.7	-3,426.2	-161.4	3,429.7	1.17	1.17	0.00
10,837.0	90.20	181.90	7,596.7	-3,520.2	-164.9	3,523.7	0.68	0.43	-0.53
10,932.0	90.40	181.00	7,596.2	-3,615.1	-167.3	3,618.7	0.97	0.21	-0.95
11,027.0	90.30	181.10	7,595.7	-3,710.1	-169.1	3,713.6	0.15	-0.11	0.11
11,121.0	89.80	182.40	7,595.6	-3,804.1	-171.9	3,807.6	1.48	-0.53	1.38
11,217.0	90.30	183.60	7,595.5	-3,899.9	-177.0	3,903.6	1.35	0.52	1.25
11,312.0	90.10	183.90	7,595.2	-3,994.7	-183.2	3,998.6	0.38	-0.21	0.32
11,407.0	91.40	182.00	7,593.9	-4,089.6	-188.1	4,093.5	2.42	1.37	-2.00
11,501.0	92.10	182.20	7,591.0	-4,183.5	-191.5	4,187.5	0.77	0.74	0.21
11,595.0	93.00	181.90	7,586.9	-4,277.3	-194.9	4,281.4	1.01	0.96	-0.32



Stryker Directional Survey Report



Company: Mewbourne Oil Company .
Project: Eddy County, New Mexico
Site: Section 22/27-26S-27E Owl Draw 22 27B2BO
Well: Owl Draw 22 27 B2BO Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Owl Draw 22 27 B2BO Fed Com #2H
TVD Reference: 3149 + 20 @ 3169.0usft (Patterson #243)
MD Reference: 3149 + 20 @ 3169.0usft (Patterson #243)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
11,689.0	91.40	181.90	7,583.3	-4,371.2	-198.0	4,375.3	1.70	-1.70	0.00
11,784.0	89.80	181.70	7,582.3	-4,466.2	-201.0	4,470.3	1.70	-1.68	-0.21
11,879.0	89.10	181.60	7,583.2	-4,561.1	-203.7	4,565.3	0.74	-0.74	-0.11
11,973.0	89.50	181.10	7,584.3	-4,655.1	-205.9	4,659.3	0.68	0.43	-0.53
12,068.0	90.50	181.10	7,584.3	-4,750.1	-207.7	4,754.3	1.05	1.05	0.00
12,162.0	88.40	180.80	7,585.2	-4,844.0	-209.3	4,848.3	2.26	-2.23	-0.32
12,256.0	89.20	181.40	7,587.2	-4,938.0	-211.1	4,942.2	1.06	0.85	0.64
12,350.0	90.10	181.50	7,587.8	-5,032.0	-213.5	5,036.2	0.96	0.96	0.11
12,445.0	90.80	182.00	7,587.0	-5,126.9	-216.4	5,131.2	0.91	0.74	0.53
12,540.0	91.20	181.60	7,585.4	-5,221.9	-219.4	5,226.2	0.60	0.42	-0.42
12,632.0	89.80	182.20	7,584.6	-5,313.8	-222.4	5,318.2	1.66	-1.52	0.65
12,728.0	90.70	182.80	7,584.1	-5,409.7	-226.6	5,414.2	1.13	0.94	0.63
12,822.0	90.10	182.40	7,583.5	-5,503.6	-230.9	5,508.2	0.77	-0.64	-0.43
12,917.0	89.00	182.20	7,584.2	-5,598.5	-234.7	5,603.2	1.18	-1.16	-0.21
13,012.0	89.00	182.60	7,585.9	-5,693.4	-238.6	5,698.2	0.42	0.00	0.42
13,107.0	89.80	180.40	7,586.9	-5,788.4	-241.1	5,793.1	2.46	0.84	-2.32
13,202.0	92.70	180.80	7,584.8	-5,883.3	-242.1	5,888.1	3.08	3.05	0.42
13,296.0	93.60	180.00	7,579.6	-5,977.2	-242.8	5,981.9	1.28	0.96	-0.85
13,391.0	92.00	181.70	7,575.0	-6,072.1	-244.2	6,076.8	2.46	-1.68	1.79
13,485.0	88.60	182.30	7,574.5	-6,166.0	-247.5	6,170.8	3.67	-3.62	0.64
13,581.0	89.00	182.90	7,576.5	-6,261.9	-251.8	6,266.7	0.75	0.42	0.63
13,675.0	89.80	182.80	7,577.5	-6,355.7	-256.5	6,360.7	0.86	0.85	-0.11
13,770.0	90.70	183.30	7,577.1	-6,450.6	-261.6	6,455.7	1.08	0.95	0.53
13,864.0	88.80	181.50	7,577.5	-6,544.5	-265.5	6,549.7	2.78	-2.02	-1.91
13,959.0	89.30	181.10	7,579.1	-6,639.5	-267.6	6,644.7	0.67	0.53	-0.42
14,054.0	89.90	180.80	7,579.7	-6,734.5	-269.2	6,739.6	0.71	0.63	-0.32
14,149.0	91.20	181.20	7,578.8	-6,829.4	-270.9	6,834.6	1.43	1.37	0.42
14,242.0	88.60	180.90	7,579.0	-6,922.4	-272.6	6,927.6	2.81	-2.80	-0.32
14,337.0	89.50	180.30	7,580.6	-7,017.4	-273.6	7,022.6	1.14	0.95	-0.63
14,431.0	91.10	180.40	7,580.1	-7,111.4	-274.2	7,116.5	1.71	1.70	0.11
14,526.0	90.70	180.70	7,578.6	-7,206.4	-275.1	7,211.5	0.53	-0.42	0.32
14,621.0	92.10	181.40	7,576.3	-7,301.3	-276.8	7,306.5	1.65	1.47	0.74
14,715.0	91.80	181.60	7,573.1	-7,395.2	-279.3	7,400.4	0.38	-0.32	0.21
14,809.0	89.00	181.10	7,572.4	-7,489.2	-281.5	7,494.4	3.03	-2.98	-0.53
14,904.0	90.00	181.10	7,573.2	-7,584.2	-283.3	7,589.4	1.05	1.05	0.00
14,998.0	91.10	180.80	7,572.3	-7,678.2	-284.9	7,683.4	1.21	1.17	-0.32
15,093.0	89.30	180.50	7,572.0	-7,773.2	-285.9	7,778.3	1.92	-1.89	-0.32
15,188.0	89.80	180.30	7,572.7	-7,868.1	-286.6	7,873.3	0.57	0.53	-0.21
15,283.0	90.90	180.70	7,572.2	-7,963.1	-287.4	7,968.3	1.23	1.16	0.42
15,377.0	88.70	179.80	7,572.5	-8,057.1	-287.8	8,062.2	2.53	-2.34	-0.96
15,472.0	90.00	180.30	7,573.6	-8,152.1	-287.9	8,157.2	1.47	1.37	0.53
15,567.0	91.30	179.90	7,572.5	-8,247.1	-288.1	8,252.1	1.43	1.37	-0.42
15,662.0	88.80	180.30	7,572.4	-8,342.1	-288.3	8,347.1	2.67	-2.63	0.42



Stryker Directional Survey Report



Company: Mewbourne Oil Company .
Project: Eddy County, New Mexico
Site: Section 22/27-26S-27E Owl Draw 22 27B2BO
Well: Owl Draw 22 27 B2BO Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Owl Draw 22 27 B2BO Fed Com #2H
TVD Reference: 3149 + 20 @ 3169.0usft (Patterson #243)
MD Reference: 3149 + 20 @ 3169.0usft (Patterson #243)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
15,756.0	89.40	180.30	7,573.9	-8,436.1	-288.7	8,441.0	0.64	0.64	0.00
15,851.0	90.30	180.60	7,574.1	-8,531.1	-289.5	8,536.0	1.00	0.95	0.32
15,946.0	91.10	180.30	7,573.0	-8,626.1	-290.2	8,631.0	0.90	0.84	-0.32
16,041.0	92.00	180.50	7,570.4	-8,721.0	-290.9	8,725.9	0.97	0.95	0.21
16,136.0	90.50	180.50	7,568.3	-8,816.0	-291.7	8,820.8	1.58	-1.58	0.00
16,231.0	90.20	179.60	7,567.8	-8,911.0	-291.8	8,915.8	1.00	-0.32	-0.95
16,325.0	89.40	179.60	7,568.1	-9,005.0	-291.2	9,009.7	0.85	-0.85	0.00
16,420.0	90.40	179.60	7,568.2	-9,100.0	-290.5	9,104.6	1.05	1.05	0.00
16,515.0	90.00	180.90	7,567.9	-9,195.0	-290.9	9,199.6	1.43	-0.42	1.37
16,609.0	88.90	181.20	7,568.8	-9,289.0	-292.6	9,293.6	1.21	-1.17	0.32
16,704.0	89.90	181.00	7,569.8	-9,384.0	-294.5	9,388.6	1.07	1.05	-0.21
16,798.0	90.00	181.50	7,569.9	-9,477.9	-296.5	9,482.6	0.54	0.11	0.53
16,893.0	91.40	182.20	7,568.7	-9,572.9	-299.6	9,577.6	1.65	1.47	0.74
16,988.0	90.00	182.20	7,567.6	-9,667.8	-303.2	9,672.5	1.47	-1.47	0.00
17,082.0	90.90	182.50	7,566.8	-9,761.7	-307.1	9,766.5	1.01	0.96	0.32
17,181.0	92.20	182.70	7,564.2	-9,860.6	-311.6	9,865.5	1.33	1.31	0.20

17181' MD Projected to Bit - PBHL Owl Draw 22 27 B2BO Fed Com #2H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
6,890.0	6,889.0	-34.1	-27.9	6890' MD VES Gyro Survey Tie-In
17,181.0	7,564.2	-9,860.6	-311.6	17181' MD Projected to Bit



March 3, 2015

Mewbourne Oil Company
Rt. 3 Box 116-8
Woodward, Ok 73801

Attn: Brian Reed

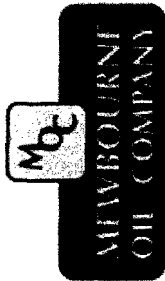
Re: **Owl Draw 22-27 B2BO Fed Com 2H**

Please find enclosed a copy of the survey from 0' to 6890' ran on the above referenced well.

If I can be of any further service please do not hesitate to call me at 800-606-4976.

Sincerely,

Jennifer Byerly
Operations



Company: MEWBOURNE OIL

Lease/Well: OWL DRAW 22-27 B2BO FED COM/2H

VES SURVEY

Rig Name: PATTERSON 243

State/County: NEW MEXICO/EDDY

Latitude: 32.03, Longitude: -104.17

GRID North is 0.08 Degrees East of True North

VS-Azi: 0.00 Degrees

Depth Reference : RKB: 25.6 FEET

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut

Minimum Curvature Method

Report Date/Time: 3/3/2015 / 09:28

VES Survey International
West Texas

(432) 563-5444

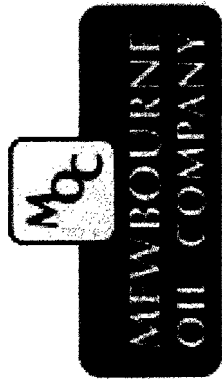
Surveyor: Jordan Shelleby

Owl Draw 22-27 B2BO Fed Com 2H / API 30-015-42829

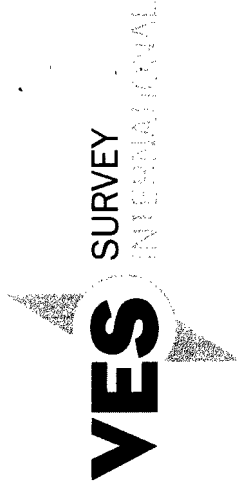
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.69	162.92	100.00	-0.57	0.18	-0.57	0.60	162.92	0.69
200.00	0.74	162.83	199.99	-1.76	0.54	-1.76	1.85	162.89	0.05
300.00	0.91	166.80	299.98	-3.15	0.91	-3.15	3.28	163.82	0.18
400.00	1.01	167.28	399.97	-4.78	1.29	-4.78	4.95	164.91	0.11
500.00	0.17	118.60	499.96	-5.71	1.61	-5.71	5.93	164.24	0.91
600.00	0.07	261.88	599.96	-5.79	1.68	-5.79	6.03	163.82	0.23
700.00	0.04	223.90	699.96	-5.82	1.60	-5.82	6.04	164.67	0.04
800.00	0.05	238.76	799.96	-5.87	1.53	-5.87	6.07	165.36	0.02
900.00	0.05	259.46	899.96	-5.90	1.45	-5.90	6.08	166.18	0.02
1000.00	0.03	29.35	999.96	-5.88	1.42	-5.88	6.05	166.42	0.08
1100.00	0.06	293.56	1099.96	-5.84	1.38	-5.84	6.00	166.65	0.07
1200.00	0.07	264.74	1199.96	-5.82	1.27	-5.82	5.96	167.67	0.03
1300.00	0.07	32.33	1299.96	-5.77	1.24	-5.77	5.91	167.84	0.13
1400.00	0.04	316.58	1399.96	-5.70	1.25	-5.70	5.83	167.58	0.07
1500.00	0.04	169.49	1499.96	-5.71	1.24	-5.71	5.84	167.76	0.08
1600.00	0.08	333.86	1599.96	-5.68	1.21	-5.68	5.81	167.95	0.13
1700.00	0.37	275.65	1699.96	-5.58	0.86	-5.58	5.65	171.26	0.33
1800.00	0.40	124.41	1799.96	-5.75	0.82	-5.75	5.81	171.85	0.75

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	0.73	102.58	1899.95	-6.08	1.73	-6.08	6.32	164.11	0.39
2000.00	0.47	208.49	1999.95	-6.58	2.16	-6.58	6.92	161.85	0.97
2100.00	0.45	157.88	2099.95	-7.30	2.11	-7.30	7.60	163.88	0.39
2200.00	0.30	2.08	2199.95	-7.41	2.27	-7.41	7.75	162.97	0.74
2300.00	0.13	163.21	2299.95	-7.25	2.31	-7.25	7.61	162.32	0.43
2400.00	0.28	46.18	2399.94	-7.19	2.52	-7.19	7.62	160.67	0.36
2500.00	0.57	220.96	2499.94	-7.39	2.38	-7.39	7.77	162.17	0.85
2600.00	0.81	149.77	2599.94	-8.38	2.41	-8.38	8.72	163.95	0.82
2700.00	0.57	80.37	2699.93	-8.90	3.26	-8.90	9.48	159.90	0.81
2800.00	0.55	204.81	2799.93	-9.25	3.55	-9.25	9.91	159.01	0.99
2900.00	0.64	162.72	2899.92	-10.22	3.52	-10.22	10.81	161.02	0.44
3000.00	0.07	100.55	2999.92	-10.77	3.74	-10.77	11.40	160.85	0.62
3100.00	0.68	102.54	3099.92	-10.91	4.37	-10.91	11.75	158.16	0.61
3200.00	0.91	131.24	3199.91	-11.56	5.55	-11.56	12.83	154.36	0.46
3300.00	0.83	168.29	3299.90	-12.80	6.30	-12.80	14.27	153.80	0.56
3400.00	1.24	190.75	3399.88	-14.57	6.24	-14.57	15.85	156.80	0.57
3500.00	1.01	240.20	3499.87	-16.07	5.28	-16.07	16.91	161.83	0.96
3600.00	0.89	287.63	3599.85	-16.27	3.77	-16.27	16.70	166.95	0.77
3700.00	1.33	284.70	3699.84	-15.74	1.91	-15.74	15.86	173.09	0.45
3800.00	0.75	269.47	3799.82	-15.45	0.12	-15.45	15.45	179.54	0.64
3900.00	1.02	262.72	3899.81	-15.57	-1.41	-15.57	15.64	185.19	0.28
4000.00	0.45	246.30	3999.80	-15.84	-2.65	-15.84	16.06	189.50	0.60
4100.00	0.91	234.39	4099.79	-16.46	-3.65	-16.46	16.86	192.51	0.48
4200.00	1.20	195.47	4199.78	-17.93	-4.58	-17.93	18.50	194.32	0.75
4300.00	1.10	113.15	4299.76	-19.32	-3.97	-19.32	19.72	191.62	1.52
4400.00	1.03	94.07	4399.74	-19.76	-2.19	-19.76	19.88	186.33	0.36
4500.00	1.33	99.74	4499.72	-20.02	-0.15	-20.02	20.02	180.42	0.32
4600.00	1.10	54.12	4599.70	-19.65	1.78	-19.65	19.73	174.83	0.97
4700.00	1.10	2.11	4699.69	-18.13	2.59	-18.13	18.31	171.86	0.97
4800.00	0.93	347.60	4799.67	-16.38	2.46	-16.38	16.56	171.47	0.31
4900.00	0.87	293.70	4899.66	-15.28	1.59	-15.28	15.37	174.06	0.81
5000.00	1.06	258.61	4999.65	-15.16	-0.01	-15.16	15.16	180.04	0.61
5100.00	0.96	201.41	5099.63	-16.12	-1.22	-16.12	16.17	184.33	0.97
5200.00	1.04	152.37	5199.62	-17.70	-1.11	-17.70	17.73	183.58	0.83
5300.00	1.18	108.17	5299.60	-18.82	0.29	-18.82	18.82	179.11	0.84
5400.00	0.23	92.74	5399.59	-19.15	1.47	-19.15	19.21	175.61	0.96
5500.00	0.07	154.86	5499.59	-19.21	1.70	-19.21	19.29	174.95	0.21
5600.00	0.48	186.64	5599.59	-19.68	1.67	-19.68	19.75	175.14	0.42
5700.00	2.00	189.39	5699.57	-21.82	1.34	-21.82	21.86	176.48	1.52

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
5800.00	1.76	217.65	5799.51	-24.75	0.12	-24.75	24.75	179.72	0.94
5900.00	0.83	194.49	5899.49	-26.67	-1.00	-26.67	26.68	182.14	1.04
6000.00	0.82	243.73	5999.48	-27.69	-1.82	-27.69	27.75	183.77	0.69
6100.00	1.32	252.82	6099.46	-28.34	-3.56	-28.34	28.57	187.16	0.52
6200.00	1.03	233.85	6199.44	-29.21	-5.38	-29.21	29.70	190.44	0.48
6300.00	1.17	233.23	6299.42	-30.35	-6.92	-30.35	31.13	192.85	0.14
6400.00	1.19	265.97	6399.40	-31.03	-8.78	-31.03	32.25	195.79	0.67
6500.00	1.94	261.22	6499.36	-31.36	-11.49	-31.36	33.40	200.12	0.76
6600.00	2.81	270.21	6599.28	-31.61	-15.61	-31.61	35.26	206.28	0.95
6700.00	2.35	254.47	6699.18	-32.15	-20.03	-32.15	37.88	211.93	0.84
6800.00	2.44	261.31	6799.09	-33.02	-24.11	-33.02	40.89	216.13	0.30
6890.00	2.26	265.19	6889.02	-33.46	-27.78	-33.46	43.49	219.70	0.26



VES Survey International
West Texas
(432) 563-5444
Surveyor: Jordan Shelleby
Owl Draw 22-27 B2BO Fed Com 2H / API 30-015-42829



0

Depth=0.0, Inc=0.0, AzG=0.0

Depth=5000.0, Inc=1.1, AzG=258.6

-S/+N
-20

Depth=5800.0, Inc=1.8, AzG=217.7

Depth=6890.0, Inc=2.3, AzG=265.2

-20

-W/+E

0

V.E.S. Survey Date: 2/22/2015



March 27, 2015

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

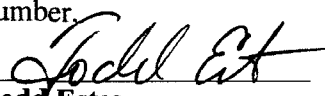
Attn: Jackie Lathan

**Re: Mewbourne Oil Company
Owl Draw 22 27 B2BO Federal Com #002H
Hay Hollow; Bone Spring
Eddy County, New Mexico
API# 30-015-42829**

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>
Keith Broussard	Original Hole	6,968ft. to 17,082ft.	02-23-15 to 03-13-15	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 B2BO Federal Com #1H\M151027

**STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163**



March 27, 2015

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 February 23, 2015 thru March 13, 2015, conduct or supervise the taking of a SEDS MWD Survey from a depth of 6,968 feet to a depth of 17,082 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 B2BO Federal Com #002H well, API # **30-015-42829** 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

Stryker Directional

Owl Draw 22-27 B2BO Fed Com #2H

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 22/27-26S-27E Owl Draw 22/27B2BO
Well: Owl Draw 22 27 B2BO Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Owl Draw 22 27 B2BO Fed Com #2H
TVD Reference: 3149 + 20 @ 3169 0usft (Patterson #243)
MD Reference: 3149 + 20 @ 3169 0usft (Patterson #243)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

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 Section 22/27-26S-27E Owl Draw 22 27B2BO

Site Position:
From: Map
Position Uncertainty: 0.0 usft
Northing: 376,063.37 usft
Easting: 549,359.17 usft
Slot Radius: 13-3/16 "
Latitude: 32° 2' 1.726 N
Longitude: 104° 10' 26.577 W
Grid Convergence: 0.08 °

Well Owl Draw 22 27 B2BO Fed Com #2H

Well Position +N/-S 0.0 usft
+ E/-W 0.0 usft
Position Uncertainty 0.0 usft
Northing: 376,063.37 usft
Easting: 549,359.17 usft
Wellhead Elevation: 0.0 usft
Latitude: 32° 2' 1.726 N
Longitude: 104° 10' 26.577 W
Ground Level: 3,149.0 usft

Wellbore Original Hole

Magnetics **Model Name** IGRF2015 **Sample Date** 2/10/2015 **Declination** (°) 7.47 **Dip Angle** (°) 59.82 **Field Strength** (nT) 48,002

Design Original Hole

Audit Notes:
Version: 1.0

Vertical Section:
Phase: ACTUAL
Depth From (TVD) (usft) 0.0
+N/-S (usft) 0.0
+E/-W (usft) 0.0
Tie On Depth:
Direction (°) 181.85

Stryker Directional

Owl Draw 22-27 B2BO Fed Com #2H

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Owl Draw 22 27 B2BO Fed Com #2H
Project:	Eddy County, New Mexico	TVD Reference:	3149 + 20 @ 3169.0usft (Patterson #243)
Site:	Section 22/27-26S-27E Owl Draw 22 27B2BO	MD Reference:	3149 + 20 @ 3169.0usft (Patterson #243)
Well:	Owl Draw 22 27 B2BO Fed Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey Program		Date	3/13/2015									
From (usft)	To (usft)	Survey (Wellbore)		Tool Name		Description						
100.0	6,890.0	VES Gyro Survey (Original Hole)		GyroFlex		MWD v3:standard declination						
6,968.0	17,181.0	MWD Survey (Original Hole)		MWD								
Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)			
6,890.0	2.26	265.19	6,889.0	-34.1	-27.9	35.0	44.0	219.25	0.00			
6,968.0	3.60	248.40	6,966.9	-35.1	-31.7	36.1	47.3	222.03	2.02			
7,000.0	8.70	233.80	6,998.7	-36.9	-34.6	38.0	50.6	223.10	16.54			
7,032.0	12.50	220.90	7,030.2	-41.0	-38.8	42.2	56.4	223.42	13.93			
7,064.0	15.80	220.30	7,061.2	-46.9	-43.9	48.3	64.2	223.07	10.32			
7,095.0	18.80	219.50	7,090.8	-54.0	-49.8	55.6	73.4	222.67	9.71			
7,127.0	21.80	213.80	7,120.8	-62.9	-56.3	64.7	84.5	221.84	11.34			
7,158.0	25.10	209.80	7,149.2	-73.4	-62.8	75.4	96.6	220.54	11.70			
7,189.0	28.70	205.70	7,176.9	-85.9	-69.3	88.0	110.3	218.91	13.06			
7,221.0	31.30	203.70	7,204.6	-100.4	-76.0	102.8	125.9	217.12	8.70			
7,253.0	31.70	201.50	7,231.9	-115.8	-82.4	118.4	142.1	215.43	3.80			
7,284.0	31.30	199.80	7,258.3	-131.0	-88.1	133.8	157.9	213.93	3.14			
7,315.0	30.50	200.60	7,284.9	-145.9	-93.6	148.9	173.4	212.68	2.90			
7,347.0	28.70	200.30	7,312.7	-160.7	-99.1	163.8	188.8	211.66	5.64			
7,379.0	28.40	200.90	7,340.8	-175.0	-104.5	178.3	203.9	210.84	1.30			
7,410.0	31.20	198.70	7,367.7	-189.5	-108.7	193.0	219.0	210.06	9.70			
7,442.0	34.10	196.10	7,394.7	-206.0	-114.9	209.6	235.9	209.14	10.07			
7,473.0	37.10	194.40	7,419.9	-223.4	-119.6	227.2	253.4	208.16	10.19			
7,504.0	40.20	193.30	7,444.1	-242.2	-124.2	246.1	272.2	207.15	10.24			
7,536.0	43.60	191.80	7,467.9	-263.1	-128.9	267.1	292.9	206.10	11.08			
7,567.0	47.10	190.90	7,489.7	-284.7	-133.2	288.9	314.3	205.07	11.48			

Stryker Directional

Owl Draw 22-27 B2BO Fed Com #2H

Company:

Mevbourne Oil Company

Project:

Eddy County, New Mexico

Site:

Section 22/27-26S-27E Owl Draw 22 27B2BO

Well:

Owl Draw 22 27 B2BO Fed Com #2H

Wellbore:

Original Hole

Design:

Original Hole

Local Co-ordinate Reference:

Well Owl Draw 22 27 B2BO Fed Com #2H

TVD Reference:

3149 + 20 @ 3169.0usft (Patterson #243)

MD Reference:

3149 + 20 @ 3169.0usft (Patterson #243)

North Reference:

Grid

Survey Calculation Method:

Minimum Curvature

Database:

Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
7,598.0	50.20	189.20	7,510.2	-307.6	-137.2	311.9	336.8	204.04	10.81
7,630.0	53.10	188.20	7,530.0	-332.4	-141.0	336.8	361.1	202.99	9.39
7,662.0	56.90	186.90	7,548.4	-358.4	-144.5	362.9	386.4	201.96	12.33
7,693.0	61.30	185.90	7,564.3	-384.8	-147.4	389.4	412.1	200.96	14.46
7,725.0	65.70	184.20	7,578.6	-413.3	-149.9	418.0	439.7	199.94	14.55
7,756.0	71.50	183.40	7,589.9	-442.1	-151.9	448.8	467.5	198.96	18.86
7,788.0	77.80	183.60	7,598.3	-472.9	-153.7	477.6	497.3	198.01	19.70
7,819.0	83.40	183.20	7,603.4	-503.4	-155.6	508.2	526.9	197.17	18.11
7,849.0	88.70	183.10	7,605.5	-533.3	-157.2	538.1	556.0	196.42	17.67
7,912.0	91.30	182.20	7,605.5	-596.2	-160.1	601.1	617.4	195.03	4.37
8,005.0	92.40	181.90	7,602.5	-689.1	-163.4	694.0	706.2	193.34	1.23
8,099.0	91.00	180.30	7,599.7	-783.1	-165.2	788.0	800.3	191.92	2.26
8,193.0	90.30	180.00	7,598.6	-877.1	-165.5	881.9	892.5	190.68	0.81
8,287.0	89.60	179.40	7,598.7	-971.1	-165.0	975.9	985.0	189.64	0.98
8,381.0	90.50	179.50	7,598.6	-1,065.0	-164.1	1,069.8	1,077.6	188.76	0.96
8,475.0	89.60	179.10	7,598.5	-1,159.0	-162.9	1,163.7	1,170.4	188.00	1.05
8,570.0	90.50	178.80	7,598.4	-1,254.0	-161.2	1,258.6	1,264.3	187.32	1.00
8,665.0	89.80	178.10	7,598.2	-1,349.0	-158.6	1,353.4	1,358.3	186.71	1.04
8,759.0	89.80	178.90	7,598.5	-1,443.0	-156.2	1,447.2	1,451.4	186.18	0.85
8,854.0	90.90	179.00	7,597.9	-1,537.9	-154.4	1,542.1	1,545.7	185.73	1.16
8,948.0	88.50	178.50	7,598.4	-1,631.9	-152.4	1,636.0	1,639.0	185.33	2.61
9,043.0	88.80	178.70	7,600.7	-1,726.8	-150.1	1,730.8	1,733.4	184.97	0.38
9,137.0	89.20	178.30	7,602.3	-1,820.8	-147.6	1,824.6	1,826.8	184.63	0.60
9,231.0	90.20	178.60	7,602.8	-1,914.8	-145.1	1,918.4	1,920.2	184.33	1.11
9,326.0	91.10	178.90	7,601.7	-2,009.7	-143.0	2,013.3	2,014.8	184.07	1.00
9,420.0	91.00	180.50	7,600.0	-2,103.7	-142.5	2,107.2	2,108.5	183.87	1.71
9,515.0	92.10	180.80	7,597.4	-2,198.7	-143.6	2,202.2	2,203.4	183.74	1.20

Stryker Directional

Owl Draw 22-27 B2BO Fed Com #2H

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 22/27-26S-27E Owl Draw 22 27B2BO
Well: Owl Draw 22 27 B2BO Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Owl Draw 22 27 B2BO Fed Com #2H
TVD Reference: 3149 + 20 @ 3169.0usft (Patterson #243)
MD Reference: 3149 + 20 @ 3169.0usft (Patterson #243)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLog (°/100usft)
9,608.0	90.70	180.60	7,595.2	-2,291.6	-144.7	2,295.1	2,296.2	183.61	1.52
9,703.0	89.30	180.90	7,595.2	-2,386.6	-145.9	2,390.1	2,391.1	183.50	1.51
9,797.0	89.80	179.90	7,595.9	-2,480.6	-146.6	2,484.1	2,484.9	183.38	1.19
9,892.0	89.80	178.70	7,596.2	-2,575.6	-145.4	2,579.0	2,579.7	183.23	1.26
9,986.0	90.20	180.10	7,596.2	-2,669.6	-144.5	2,672.9	2,673.5	183.10	1.55
10,080.0	90.80	179.30	7,595.4	-2,763.6	-144.0	2,766.8	2,767.3	182.98	1.06
10,175.0	90.60	180.40	7,594.3	-2,858.6	-143.7	2,861.7	2,862.2	182.88	1.18
10,269.0	89.80	181.90	7,593.9	-2,952.6	-145.6	2,955.7	2,956.1	182.82	1.81
10,364.0	90.30	181.50	7,593.8	-3,047.5	-148.4	3,050.7	3,051.1	182.79	0.67
10,459.0	90.70	180.90	7,593.0	-3,142.5	-150.4	3,145.7	3,146.1	182.74	0.76
10,554.0	88.80	182.60	7,593.4	-3,237.4	-153.3	3,240.7	3,241.1	182.71	2.68
10,649.0	88.70	182.40	7,595.5	-3,332.3	-157.5	3,335.7	3,336.0	182.71	0.24
10,743.0	89.80	182.40	7,596.7	-3,426.2	-161.4	3,429.7	3,430.0	182.70	1.17
10,837.0	90.20	181.90	7,596.7	-3,520.2	-164.9	3,523.7	3,524.0	182.68	0.68
10,932.0	90.40	181.00	7,596.2	-3,615.1	-167.3	3,618.7	3,619.0	182.65	0.97
11,027.0	90.30	181.10	7,595.7	-3,710.1	-169.1	3,713.6	3,714.0	182.61	0.15
11,121.0	89.80	182.40	7,595.6	-3,804.1	-171.9	3,807.6	3,808.0	182.59	1.48
11,217.0	90.30	183.60	7,595.5	-3,899.9	-177.0	3,903.6	3,904.0	182.60	1.35
11,312.0	90.10	183.90	7,595.2	-3,994.7	-183.2	3,998.6	3,998.9	182.63	0.38
11,407.0	91.40	182.00	7,593.9	-4,089.6	-188.1	4,093.5	4,093.9	182.63	2.42
11,501.0	92.10	182.20	7,591.0	-4,183.5	-191.5	4,187.5	4,187.9	182.62	0.77
11,595.0	93.00	181.90	7,586.9	-4,277.3	-194.9	4,281.4	4,281.8	182.61	1.01
11,689.0	91.40	181.90	7,583.3	-4,371.2	-198.0	4,375.3	4,375.7	182.59	1.70
11,784.0	89.80	181.70	7,582.3	-4,466.2	-201.0	4,470.3	4,470.7	182.58	1.70
11,879.0	89.10	181.60	7,583.2	-4,561.1	-203.7	4,565.3	4,565.7	182.56	0.74
11,973.0	89.50	181.10	7,584.3	-4,655.1	-205.9	4,659.3	4,659.6	182.53	0.68
12,068.0	90.50	181.10	7,584.3	-4,750.1	-207.7	4,754.3	4,754.6	182.50	1.05

Stryker Directional

Owl Draw 22-27 B2BO Fed Com #2H

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 22/27-26S-27E Owl Draw 22 27B2BO
Well: Owl Draw 22 27 B2BO Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Owl Draw 22 27 B2BO Fed Com #2H
TVD Reference: 3149 + 20 @ 3169.0usft (Patterson #243)
MD Reference: 3149 + 20 @ 3169.0usft (Patterson #243)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
12,162.0	88.40	180.80	7,585.2	-4,844.0	-209.3	4,848.3	4,848.6	182.47	2.26
12,266.0	89.20	181.40	7,587.2	-4,938.0	-211.1	4,942.2	4,942.5	182.45	1.06
12,350.0	90.10	181.50	7,587.8	-5,032.0	-213.5	5,036.2	5,036.5	182.43	0.96
12,445.0	90.80	182.00	7,587.0	-5,126.9	-216.4	5,131.2	5,131.5	182.42	0.91
12,540.0	91.20	181.60	7,585.4	-5,221.9	-219.4	5,226.2	5,226.5	182.41	0.60
12,632.0	89.80	182.20	7,584.6	-5,313.8	-222.4	5,318.2	5,318.4	182.40	1.66
12,728.0	90.70	182.80	7,584.1	-5,409.7	-226.6	5,414.2	5,414.4	182.40	1.13
12,822.0	90.10	182.40	7,583.5	-5,503.6	-230.9	5,508.2	5,508.4	182.40	0.77
12,917.0	89.00	182.20	7,584.2	-5,598.5	-234.7	5,603.2	5,603.4	182.40	1.18
13,012.0	89.00	182.60	7,585.9	-5,693.4	-238.6	5,698.2	5,698.4	182.40	0.42
13,107.0	89.80	180.40	7,586.9	-5,788.4	-241.1	5,793.1	5,793.4	182.39	2.46
13,202.0	92.70	180.80	7,584.8	-5,883.3	-242.1	5,888.1	5,888.3	182.36	3.08
13,296.0	93.60	180.00	7,579.6	-5,977.2	-242.8	5,981.9	5,982.1	182.33	1.28
13,391.0	92.00	181.70	7,575.0	-6,072.1	-244.2	6,076.8	6,077.0	182.30	2.46
13,485.0	88.60	182.30	7,574.5	-6,166.0	-247.5	6,170.8	6,171.0	182.30	3.67
13,581.0	89.00	182.90	7,576.5	-6,261.9	-251.8	6,266.7	6,266.9	182.30	0.75
13,675.0	89.80	182.80	7,577.5	-6,355.7	-256.5	6,360.7	6,360.9	182.31	0.86
13,770.0	90.70	183.30	7,577.1	-6,450.6	-261.6	6,455.7	6,455.9	182.32	1.08
13,864.0	88.80	181.50	7,577.5	-6,544.5	-265.5	6,549.7	6,549.9	182.32	2.78
13,958.0	89.30	181.10	7,579.1	-6,639.5	-267.6	6,644.7	6,644.9	182.31	0.67
14,054.0	89.90	180.80	7,579.7	-6,734.5	-269.2	6,739.6	6,739.8	182.29	0.71
14,149.0	91.20	181.20	7,578.8	-6,829.4	-270.9	6,834.6	6,834.8	182.27	1.43
14,242.0	88.60	180.90	7,579.0	-6,922.4	-272.6	6,927.6	6,927.8	182.25	2.81
14,337.0	89.50	180.30	7,580.6	-7,017.4	-273.6	7,022.6	7,022.7	182.23	1.14
14,431.0	91.10	180.40	7,580.1	-7,111.4	-274.2	7,116.5	7,116.7	182.21	1.71
14,526.0	90.70	180.70	7,578.6	-7,206.4	-275.1	7,211.5	7,211.6	182.19	0.63
14,621.0	92.10	181.40	7,576.3	-7,301.3	-276.8	7,306.5	7,306.6	182.17	1.65

Stryker Directional

Owl Draw 22-27 B2BO Fed Com #2H

Company: Newbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 22/27-26S-27E Owl Draw 22 27B2BO
Well: Owl Draw 22 27 B2BO Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Owl Draw 22 27 B2BO Fed Com #2H
TVD Reference: 3149 + 20 @ 3169.0usft (Patterson #243)
MD Reference: 3149 + 20 @ 3169.0usft (Patterson #243)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
14,715.0	91.80	181.60	7,573.1	-7,395.2	-279.3	7,400.4	7,400.5	182.16	0.38
14,809.0	89.00	181.10	7,572.4	-7,489.2	-281.5	7,494.4	7,494.5	182.15	3.03
14,904.0	90.00	181.10	7,573.2	-7,584.2	-283.3	7,589.4	7,589.5	182.14	1.05
14,998.0	91.10	180.80	7,572.3	-7,678.2	-284.9	7,683.4	7,683.4	182.12	1.21
15,093.0	89.30	180.50	7,572.0	-7,773.2	-285.9	7,778.3	7,778.4	182.11	1.92
15,188.0	89.80	180.30	7,572.7	-7,868.1	-286.6	7,873.3	7,873.4	182.09	0.57
15,283.0	90.90	180.70	7,572.2	-7,963.1	-287.4	7,968.3	7,968.3	182.07	1.23
15,377.0	88.70	179.80	7,572.5	-8,057.1	-287.8	8,062.2	8,062.3	182.05	2.53
15,472.0	90.00	180.30	7,573.6	-8,152.1	-287.9	8,157.2	8,157.2	182.02	1.47
15,567.0	91.30	179.90	7,572.5	-8,247.1	-288.1	8,252.1	8,252.1	182.00	1.43
15,662.0	88.80	180.30	7,572.4	-8,342.1	-288.3	8,347.1	8,347.1	181.98	2.67
15,756.0	89.40	180.30	7,573.9	-8,436.1	-288.7	8,441.0	8,441.0	181.96	0.64
15,851.0	90.30	180.60	7,574.1	-8,531.1	-289.5	8,536.0	8,536.0	181.94	1.00
15,946.0	91.10	180.30	7,573.0	-8,626.1	-290.2	8,631.0	8,631.0	181.93	0.90
16,041.0	92.00	180.50	7,570.4	-8,721.0	-290.9	8,725.9	8,725.9	181.91	0.97
16,136.0	90.50	180.50	7,568.3	-8,816.0	-291.7	8,820.8	8,820.8	181.90	1.58
16,231.0	90.20	179.60	7,567.8	-8,911.0	-291.8	8,915.8	8,915.8	181.88	1.00
16,325.0	89.40	179.60	7,568.1	-9,005.0	-291.2	9,009.7	9,009.7	181.85	0.85
16,420.0	90.40	179.60	7,568.2	-9,100.0	-290.5	9,104.6	9,104.6	181.83	1.05
16,515.0	90.00	180.90	7,567.9	-9,195.0	-290.9	9,199.6	9,199.6	181.81	1.43
16,609.0	88.90	181.20	7,568.8	-9,289.0	-292.6	9,293.6	9,293.6	181.80	1.21
16,704.0	89.90	181.00	7,569.8	-9,384.0	-294.5	9,388.6	9,388.6	181.80	1.07
16,798.0	90.00	181.50	7,569.9	-9,477.9	-296.5	9,482.6	9,482.6	181.79	0.54
16,893.0	91.40	182.20	7,568.7	-9,572.9	-299.6	9,577.6	9,577.6	181.79	1.65
16,988.0	90.00	182.20	7,567.6	-9,667.8	-303.2	9,672.5	9,672.5	181.80	1.47
17,082.0	90.90	182.50	7,566.8	-9,761.7	-307.1	9,766.5	9,766.5	181.80	1.01

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MD Reference: 3149 + 20 @ 3169.0usft (Patterson #243)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
17,181.0	92.20	182.70	7,564.2	-9,860.6	-311.6	9,865.5	9,865.5	181.81	1.33

17181' MD Projected to Bit

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
17,181.0	7,564.2	-9,860.6	-311.6	17181' MD Projected to Bit



COMPANY: Mewbourne Oil Company
 WELL: Owl Draw 22 27 B2BO Fed Com #2H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson #243



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction Add 7.38

OFFICE: 936.582.7296

GEODETIC ZONE: New Mexico East 3001										
3149 + 20 @ 3169.0usft (Patterson #243)										
GROUND ELEVATION: 3149.0										
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
	0.0	0.0	376063.37	549359.17	32° 2' 1.726 N	104° 10' 26.577 W				
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	6890.0	2.26	265.19	6889.0	-34.1	-27.9	0.00	0.00	35.0	
2	6966.0	2.26	265.19	6965.0	-34.4	-30.8	0.00	0.00	35.3	
3	7926.1	90.03	185.20	7574.0	-643.7	-110.0	9.34	-80.00	646.9	
4	8123.0	90.03	181.26	7573.9	-840.3	-121.1	2.00	-89.99	843.7	
5	17191.1	90.03	181.26	7569.0	-9906.1	-320.2	0.00	0.00	9911.3	PBHL Owl Draw 22 27 B2BO Fed Com #2H

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