



15-42830

## **Mewbourne Oil Company .**

**Eddy County, New Mexico**

**Section 19/30-23S-27E Jester 19/30 W0AH Fed Com #**

**Jester 19/30 W0AH Fed Com #1H**

**Original Hole**

**Design: Original Hole**

## **Standard Survey Report**

**26 June, 2015**

Provide signature page for Survey





# Stryker Directional Survey Report



Company: Mewbourne Oil Company  
Project: Eddy County, New Mexico  
Site: Section 19/30-23S-27E Jester 19/30 W0AH Fed Com #  
Well: Jester 19/30 W0AH Fed Com #1H  
Wellbore: Original Hole  
Design: Original Hole

Local Co-ordinate Reference: Well Jester 19/30 W0AH Fed Com #1H  
TVD Reference: 3192 + 25 @ 3217.0usft (Patterson 243)  
MD Reference: 3192 + 25 @ 3217.0usft (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)  
Geo Datum: NAD 1927 (NADCON CONUS)  
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site: Section 19/30-23S-27E Jester 19/30 W0AH Fed Com #

Site Position: Northing: 471,761.30 usft Latitude: 32° 17' 48.983 N  
From: Map Easting: 534,253.50 usft Longitude: 104° 13' 20.919 W  
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.06 °

Well: Jester 19/30 W0AH Fed Com #1H

Well Position +N/-S 0.0 usft Northing: 471,761.30 usft Latitude: 32° 17' 48.983 N  
+E/-W 0.0 usft Easting: 534,253.50 usft Longitude: 104° 13' 20.919 W  
Position Uncertainty 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,192.0 usft

Wellbore: Original Hole

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
|           | IGRF2015   | 5/22/2015   | 7.48            | 60.05         | 48,125              |

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          | 0.00          |

Survey Program Date: 6/26/2015

| From (usft) | To (usft) | Survey (Wellbore)                       | Tool Name | Description                               |
|-------------|-----------|-----------------------------------------|-----------|-------------------------------------------|
| 100.0       | 8,300.0   | VES Gyro Survey (Original Hole)         | NSG-CT_WL | Continuous north-seeking gyro on wireline |
| 8,381.0     | 16,070.0  | MWD Survey Curve & Lateral (Original Ho | 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                 | 0.97            | 209.39      | 100.0                 | -0.7         | -0.4         | -0.7                    | 0.97                    | 0.97                   | 0.00                  |
| 200.0                 | 0.99            | 205.15      | 200.0                 | -2.3         | -1.2         | -2.3                    | 0.08                    | 0.02                   | -4.24                 |
| 300.0                 | 0.80            | 214.56      | 300.0                 | -3.6         | -2.0         | -3.6                    | 0.24                    | -0.19                  | 9.41                  |
| 400.0                 | 0.66            | 275.09      | 400.0                 | -4.1         | -2.9         | -4.1                    | 0.75                    | -0.14                  | 60.53                 |
| 500.0                 | 0.82            | 283.57      | 500.0                 | -3.9         | -4.2         | -3.9                    | 0.19                    | 0.16                   | 8.48                  |
| 600.0                 | 0.63            | 277.17      | 599.9                 | -3.7         | -5.4         | -3.7                    | 0.21                    | -0.19                  | -6.40                 |
| 700.0                 | 0.81            | 200.23      | 699.9                 | -4.3         | -6.2         | -4.3                    | 0.91                    | 0.18                   | -76.94                |
| 800.0                 | 0.23            | 189.47      | 799.9                 | -5.1         | -6.5         | -5.1                    | 0.59                    | -0.58                  | -10.76                |



# Stryker Directional Survey Report



**Company:** Mewbourne Oil Company

**Project:** Eddy County, New Mexico

**Site:** Section 19/30-23S-27E Jester 19/30 W0AH Fed  
Com #

**Well:** Jester 19/30 W0AH Fed Com #1H

**Wellbore:** Original Hole

**Design:** Original Hole

**Local Co-ordinate Reference:** Well Jester 19/30 W0AH Fed Com #1H

**TVD Reference:** 3192 + 25 @ 3217.0usft (Patterson 243)

**MD Reference:** 3192 + 25 @ 3217.0usft (Patterson 243)

**North Reference:** Grid

**Survey Calculation Method:** Minimum Curvature

**Database:** Stryker\_EDM

## Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 900.0                       | 0.94               | 276.99         | 899.9                       | -5.2            | -7.4            | -5.2                          | 0.96                          | 0.71                         | 87.52                       |
| 1,000.0                     | 0.57               | 358.25         | 999.9                       | -4.6            | -8.2            | -4.6                          | 1.02                          | -0.37                        | 81.26                       |
| 1,100.0                     | 1.53               | 97.59          | 1,099.9                     | -4.3            | -6.9            | -4.3                          | 1.72                          | 0.96                         | 99.34                       |
| 1,200.0                     | 0.67               | 45.58          | 1,199.9                     | -4.1            | -5.1            | -4.1                          | 1.24                          | -0.86                        | -52.01                      |
| 1,300.0                     | 0.36               | 45.92          | 1,299.9                     | -3.5            | -4.5            | -3.5                          | 0.31                          | -0.31                        | 0.34                        |
| 1,400.0                     | 0.86               | 71.83          | 1,399.9                     | -3.0            | -3.6            | -3.0                          | 0.56                          | 0.50                         | 25.91                       |
| 1,500.0                     | 0.24               | 133.04         | 1,499.9                     | -2.9            | -2.7            | -2.9                          | 0.77                          | -0.62                        | 61.21                       |
| 1,600.0                     | 1.12               | 154.19         | 1,599.9                     | -3.9            | -2.1            | -3.9                          | 0.90                          | 0.88                         | 21.15                       |
| 1,700.0                     | 1.14               | 127.67         | 1,699.9                     | -5.4            | -0.9            | -5.4                          | 0.52                          | 0.02                         | -26.52                      |
| 1,800.0                     | 0.46               | 127.54         | 1,799.8                     | -6.3            | 0.2             | -6.3                          | 0.68                          | -0.68                        | -0.13                       |
| 1,900.0                     | 0.82               | 215.62         | 1,899.8                     | -7.1            | 0.1             | -7.1                          | 0.93                          | 0.36                         | 88.08                       |
| 2,000.0                     | 0.46               | 190.86         | 1,999.8                     | -8.1            | -0.4            | -8.1                          | 0.45                          | -0.36                        | -24.76                      |
| 2,100.0                     | 0.45               | 192.17         | 2,099.8                     | -8.9            | -0.5            | -8.9                          | 0.01                          | -0.01                        | 1.31                        |
| 2,200.0                     | 0.49               | 186.02         | 2,199.8                     | -9.7            | -0.7            | -9.7                          | 0.06                          | 0.04                         | -6.15                       |
| 2,300.0                     | 0.52               | 187.80         | 2,299.8                     | -10.5           | -0.8            | -10.5                         | 0.03                          | 0.03                         | 1.78                        |
| 2,400.0                     | 0.53               | 201.93         | 2,399.8                     | -11.4           | -1.0            | -11.4                         | 0.13                          | 0.01                         | 14.13                       |
| 2,500.0                     | 0.52               | 192.07         | 2,499.8                     | -12.3           | -1.3            | -12.3                         | 0.09                          | -0.01                        | -9.86                       |
| 2,600.0                     | 0.52               | 193.30         | 2,599.8                     | -13.2           | -1.5            | -13.2                         | 0.01                          | 0.00                         | 1.23                        |
| 2,700.0                     | 0.40               | 208.52         | 2,699.8                     | -13.9           | -1.7            | -13.9                         | 0.17                          | -0.12                        | 15.22                       |
| 2,800.0                     | 0.25               | 254.16         | 2,799.8                     | -14.3           | -2.1            | -14.3                         | 0.29                          | -0.15                        | 45.64                       |
| 2,900.0                     | 0.28               | 271.71         | 2,899.8                     | -14.3           | -2.6            | -14.3                         | 0.09                          | 0.03                         | 17.55                       |
| 3,000.0                     | 0.24               | 253.31         | 2,999.8                     | -14.4           | -3.0            | -14.4                         | 0.09                          | -0.04                        | -18.40                      |
| 3,100.0                     | 0.17               | 292.77         | 3,099.8                     | -14.4           | -3.4            | -14.4                         | 0.15                          | -0.07                        | 39.46                       |
| 3,200.0                     | 0.27               | 294.05         | 3,199.8                     | -14.2           | -3.7            | -14.2                         | 0.10                          | 0.10                         | 1.28                        |
| 3,300.0                     | 0.27               | 277.25         | 3,299.8                     | -14.1           | -4.2            | -14.1                         | 0.08                          | 0.00                         | -16.80                      |
| 3,400.0                     | 0.25               | 275.03         | 3,399.8                     | -14.1           | -4.6            | -14.1                         | 0.02                          | -0.02                        | -2.22                       |
| 3,500.0                     | 0.18               | 266.69         | 3,499.8                     | -14.1           | -5.0            | -14.1                         | 0.08                          | -0.07                        | -8.34                       |
| 3,600.0                     | 0.16               | 243.87         | 3,599.8                     | -14.1           | -5.3            | -14.1                         | 0.07                          | -0.02                        | -22.82                      |
| 3,700.0                     | 0.20               | 247.17         | 3,699.8                     | -14.3           | -5.6            | -14.3                         | 0.04                          | 0.04                         | 3.30                        |
| 3,800.0                     | 0.31               | 221.57         | 3,799.8                     | -14.5           | -5.9            | -14.5                         | 0.16                          | 0.11                         | -25.60                      |
| 3,900.0                     | 0.30               | 231.40         | 3,899.8                     | -14.9           | -6.3            | -14.9                         | 0.05                          | -0.01                        | 9.83                        |
| 4,000.0                     | 0.46               | 267.51         | 3,999.8                     | -15.1           | -6.9            | -15.1                         | 0.28                          | 0.16                         | 36.11                       |
| 4,100.0                     | 0.43               | 268.48         | 4,099.8                     | -15.1           | -7.7            | -15.1                         | 0.03                          | -0.03                        | 0.97                        |
| 4,200.0                     | 0.45               | 274.87         | 4,199.8                     | -15.1           | -8.4            | -15.1                         | 0.05                          | 0.02                         | 6.39                        |
| 4,300.0                     | 0.50               | 264.57         | 4,299.8                     | -15.1           | -9.3            | -15.1                         | 0.10                          | 0.05                         | -10.30                      |
| 4,400.0                     | 0.80               | 239.20         | 4,399.8                     | -15.5           | -10.3           | -15.5                         | 0.41                          | 0.30                         | -25.37                      |
| 4,500.0                     | 0.86               | 232.53         | 4,499.8                     | -16.3           | -11.5           | -16.3                         | 0.11                          | 0.06                         | -6.67                       |
| 4,600.0                     | 0.89               | 232.81         | 4,599.8                     | -17.2           | -12.7           | -17.2                         | 0.03                          | 0.03                         | 0.28                        |
| 4,700.0                     | 0.78               | 225.65         | 4,699.7                     | -18.2           | -13.8           | -18.2                         | 0.15                          | -0.11                        | -7.16                       |
| 4,800.0                     | 0.62               | 224.46         | 4,799.7                     | -19.0           | -14.7           | -19.0                         | 0.16                          | -0.16                        | -1.19                       |
| 4,900.0                     | 0.61               | 224.83         | 4,899.7                     | -19.8           | -15.4           | -19.8                         | 0.01                          | -0.01                        | 0.37                        |
| 5,000.0                     | 0.53               | 208.49         | 4,999.7                     | -20.6           | -16.0           | -20.6                         | 0.18                          | -0.08                        | -16.34                      |



# Stryker Directional Survey Report



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Wellbore: Original Hole  
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Local Co-ordinate Reference: Well Jester 19/30 W0AH Fed Com #1H  
TVD Reference: 3192 + 25 @ 3217.0usft (Patterson 243)  
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North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
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## Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N-S<br>(usft) | +E-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|----------------|----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 5,100.0                     | 0.56               | 182.58         | 5,099.7                     | -21.5          | -16.3          | -21.5                         | 0.25                          | 0.03                         | -25.91                      |
| 5,200.0                     | 0.54               | 181.88         | 5,199.7                     | -22.4          | -16.3          | -22.4                         | 0.02                          | -0.02                        | -0.70                       |
| 5,300.0                     | 0.61               | 181.52         | 5,299.7                     | -23.4          | -16.3          | -23.4                         | 0.07                          | 0.07                         | -0.36                       |
| 5,400.0                     | 0.58               | 176.90         | 5,399.7                     | -24.5          | -16.3          | -24.5                         | 0.06                          | -0.03                        | -4.62                       |
| 5,500.0                     | 0.70               | 171.39         | 5,499.7                     | -25.6          | -16.2          | -25.6                         | 0.13                          | 0.12                         | -5.51                       |
| 5,600.0                     | 1.11               | 152.38         | 5,599.7                     | -27.1          | -15.7          | -27.1                         | 0.50                          | 0.41                         | -19.01                      |
| 5,700.0                     | 1.29               | 176.30         | 5,699.7                     | -29.0          | -15.1          | -29.0                         | 0.53                          | 0.18                         | 23.92                       |
| 5,800.0                     | 1.32               | 180.89         | 5,799.6                     | -31.3          | -15.1          | -31.3                         | 0.11                          | 0.03                         | 4.59                        |
| 5,900.0                     | 1.02               | 208.35         | 5,899.6                     | -33.2          | -15.5          | -33.2                         | 0.63                          | -0.30                        | 27.46                       |
| 6,000.0                     | 1.01               | 206.36         | 5,999.6                     | -34.8          | -16.3          | -34.8                         | 0.04                          | -0.01                        | -1.99                       |
| 6,100.0                     | 1.55               | 215.42         | 6,099.6                     | -36.7          | -17.5          | -36.7                         | 0.58                          | 0.54                         | 9.06                        |
| 6,200.0                     | 1.92               | 208.14         | 6,199.5                     | -39.3          | -19.1          | -39.3                         | 0.43                          | 0.37                         | -7.28                       |
| 6,300.0                     | 2.00               | 208.29         | 6,299.5                     | -42.3          | -20.7          | -42.3                         | 0.08                          | 0.08                         | 0.15                        |
| 6,400.0                     | 1.95               | 207.83         | 6,399.4                     | -45.3          | -22.3          | -45.3                         | 0.05                          | -0.05                        | -0.46                       |
| 6,500.0                     | 1.82               | 218.61         | 6,499.4                     | -48.1          | -24.1          | -48.1                         | 0.36                          | -0.13                        | 10.78                       |
| 6,600.0                     | 1.71               | 220.47         | 6,599.3                     | -50.5          | -26.1          | -50.5                         | 0.12                          | -0.11                        | 1.86                        |
| 6,700.0                     | 1.58               | 230.46         | 6,699.3                     | -52.5          | -28.1          | -52.5                         | 0.31                          | -0.13                        | 9.99                        |
| 6,800.0                     | 0.74               | 222.93         | 6,799.3                     | -53.8          | -29.6          | -53.8                         | 0.85                          | -0.84                        | -7.53                       |
| 6,900.0                     | 0.56               | 217.35         | 6,899.2                     | -54.7          | -30.3          | -54.7                         | 0.19                          | -0.18                        | -5.58                       |
| 7,000.0                     | 0.54               | 230.45         | 6,999.2                     | -55.4          | -31.0          | -55.4                         | 0.13                          | -0.02                        | 13.10                       |
| 7,100.0                     | 0.44               | 242.42         | 7,099.2                     | -55.9          | -31.7          | -55.9                         | 0.14                          | -0.10                        | 11.97                       |
| 7,200.0                     | 0.47               | 229.60         | 7,199.2                     | -56.3          | -32.4          | -56.3                         | 0.11                          | 0.03                         | -12.82                      |
| 7,300.0                     | 0.41               | 236.13         | 7,299.2                     | -56.8          | -33.0          | -56.8                         | 0.08                          | -0.06                        | 6.53                        |
| 7,400.0                     | 0.44               | 297.76         | 7,399.2                     | -56.8          | -33.6          | -56.8                         | 0.44                          | 0.03                         | 61.63                       |
| 7,500.0                     | 0.55               | 321.96         | 7,499.2                     | -56.2          | -34.2          | -56.2                         | 0.23                          | 0.11                         | 24.20                       |
| 7,600.0                     | 0.78               | 54.26          | 7,599.2                     | -55.5          | -34.0          | -55.5                         | 0.97                          | 0.23                         | 92.30                       |
| 7,700.0                     | 1.41               | 96.42          | 7,699.2                     | -55.2          | -32.2          | -55.2                         | 0.98                          | 0.63                         | 42.16                       |
| 7,800.0                     | 1.11               | 73.28          | 7,799.2                     | -55.0          | -30.1          | -55.0                         | 0.58                          | -0.30                        | -23.14                      |
| 7,900.0                     | 1.08               | 108.73         | 7,899.2                     | -55.1          | -28.2          | -55.1                         | 0.67                          | -0.03                        | 35.45                       |
| 8,000.0                     | 1.21               | 111.65         | 7,999.1                     | -55.8          | -26.4          | -55.8                         | 0.14                          | 0.13                         | 2.92                        |
| 8,100.0                     | 1.97               | 118.74         | 8,099.1                     | -57.0          | -23.9          | -57.0                         | 0.78                          | 0.76                         | 7.09                        |
| 8,200.0                     | 2.89               | 126.93         | 8,199.0                     | -59.3          | -20.3          | -59.3                         | 0.98                          | 0.92                         | 8.19                        |
| 8,300.0                     | 2.08               | 134.81         | 8,298.9                     | -62.1          | -17.0          | -62.1                         | 0.88                          | -0.81                        | 7.88                        |
| 8300' MD Ves Gyro Survey    |                    |                |                             |                |                |                               |                               |                              |                             |
| 8,381.0                     | 2.08               | 134.81         | 8,379.9                     | -64.2          | -15.0          | -64.2                         | 0.00                          | 0.00                         | 0.00                        |
| 8,412.0                     | 4.40               | 165.30         | 8,410.8                     | -65.7          | -14.3          | -65.7                         | 9.07                          | 7.48                         | 98.35                       |
| 8,444.0                     | 7.60               | 159.20         | 8,442.6                     | -68.9          | -13.2          | -68.9                         | 10.18                         | 10.00                        | -19.06                      |
| 8,476.0                     | 10.40              | 165.20         | 8,474.2                     | -73.7          | -11.7          | -73.7                         | 9.22                          | 8.75                         | 18.75                       |
| 8,507.0                     | 12.70              | 174.10         | 8,504.6                     | -79.8          | -10.6          | -79.8                         | 9.37                          | 7.42                         | 28.71                       |
| 8,539.0                     | 15.70              | 177.30         | 8,535.6                     | -87.6          | -10.1          | -87.6                         | 9.69                          | 9.38                         | 10.00                       |
| 8,571.0                     | 18.90              | 175.90         | 8,566.2                     | -97.1          | -9.5           | -97.1                         | 10.08                         | 10.00                        | -4.38                       |
| 8,603.0                     | 21.90              | 175.80         | 8,596.2                     | -108.2         | -8.7           | -108.2                        | 9.38                          | 9.38                         | -0.31                       |
| 8,634.0                     | 24.40              | 179.40         | 8,624.7                     | -120.4         | -8.2           | -120.4                        | 9.26                          | 8.06                         | 11.61                       |



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Com #  
Well: Jester 19/30 W0AH Fed Com #1H  
Wellbore: Original Hole  
Design: Original Hole

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TVD Reference: 3192 + 25 @ 3217.0usft (Patterson 243)  
MD Reference: 3192 + 25 @ 3217.0usft (Patterson 243)  
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Survey Calculation Method: Minimum Curvature  
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## Survey

| Measured<br>Depth<br>(usft)      | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Buid<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|----------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|-----------------------------|-----------------------------|
| 8,666.0                          | 27.70              | 181.40         | 8,653.4                     | -134.4          | -8.3            | -134.4                        | 10.67                         | 10.31                       | 6.25                        |
| 8,697.0                          | 30.60              | 181.10         | 8,680.5                     | -149.5          | -8.6            | -149.5                        | 9.37                          | 9.35                        | -0.97                       |
| 8,729.0                          | 32.80              | 183.10         | 8,707.7                     | -166.3          | -9.3            | -166.3                        | 7.62                          | 6.88                        | 6.25                        |
| 8,761.0                          | 34.60              | 184.40         | 8,734.3                     | -184.0          | -10.4           | -184.0                        | 6.06                          | 5.63                        | 4.06                        |
| 8,792.0                          | 36.90              | 182.10         | 8,759.5                     | -202.1          | -11.4           | -202.1                        | 8.59                          | 7.42                        | -7.42                       |
| 8,824.0                          | 40.20              | 181.00         | 8,784.5                     | -222.1          | -12.0           | -222.1                        | 10.53                         | 10.31                       | -3.44                       |
| 8,856.0                          | 43.70              | 179.70         | 8,808.3                     | -243.4          | -12.1           | -243.4                        | 11.27                         | 10.94                       | -4.06                       |
| 8,887.0                          | 47.30              | 179.20         | 8,830.0                     | -265.5          | -11.9           | -265.5                        | 11.67                         | 11.61                       | -1.61                       |
| 8,919.0                          | 50.80              | 177.60         | 8,851.0                     | -289.7          | -11.2           | -289.7                        | 11.57                         | 10.94                       | -5.00                       |
| 8,950.0                          | 54.80              | 177.80         | 8,869.7                     | -314.4          | -10.2           | -314.4                        | 12.91                         | 12.90                       | 0.65                        |
| 8,982.0                          | 58.10              | 178.00         | 8,887.4                     | -341.0          | -9.2            | -341.0                        | 10.33                         | 10.31                       | 0.63                        |
| 9,014.0                          | 61.30              | 179.00         | 8,903.6                     | -368.6          | -8.5            | -368.6                        | 10.36                         | 10.00                       | 3.13                        |
| 9,045.0                          | 64.70              | 178.90         | 8,917.6                     | -396.2          | -8.0            | -396.2                        | 10.97                         | 10.97                       | -0.32                       |
| 9,077.0                          | 68.10              | 177.80         | 8,930.5                     | -425.6          | -7.2            | -425.6                        | 11.08                         | 10.63                       | -3.44                       |
| 9,109.0                          | 71.30              | 178.60         | 8,941.6                     | -455.5          | -6.2            | -455.5                        | 10.27                         | 10.00                       | 2.50                        |
| 9,140.0                          | 75.10              | 178.90         | 8,950.5                     | -485.2          | -5.6            | -485.2                        | 12.29                         | 12.26                       | 0.97                        |
| LP Jester 19 30 W0AH Fed Com #1H |                    |                |                             |                 |                 |                               |                               |                             |                             |
| 9,172.0                          | 78.40              | 178.90         | 8,957.8                     | -516.3          | -5.0            | -516.3                        | 10.31                         | 10.31                       | 0.00                        |
| 9,204.0                          | 81.80              | 178.30         | 8,963.3                     | -547.9          | -4.2            | -547.9                        | 10.78                         | 10.63                       | -1.88                       |
| 9,235.0                          | 83.80              | 177.70         | 8,967.2                     | -578.6          | -3.1            | -578.6                        | 6.73                          | 6.45                        | -1.94                       |
| 9,267.0                          | 87.50              | 177.80         | 8,969.7                     | -610.5          | -1.9            | -610.5                        | 11.57                         | 11.66                       | 0.31                        |
| 9,332.0                          | 93.50              | 176.80         | 8,969.1                     | -675.4          | -1.2            | -675.4                        | 9.36                          | 9.23                        | -1.54                       |
| 9,428.0                          | 94.00              | 180.30         | 8,962.8                     | -771.1          | 3.6             | -771.1                        | 3.68                          | 0.52                        | 3.65                        |
| 9,523.0                          | 92.00              | 185.00         | 8,957.8                     | -865.9          | -0.8            | -865.9                        | 5.37                          | -2.11                       | 4.95                        |
| 9,618.0                          | 87.10              | 187.00         | 8,958.6                     | -960.3          | -10.7           | -960.3                        | 5.57                          | -5.16                       | 2.11                        |
| 9,713.0                          | 84.70              | 185.00         | 8,965.4                     | -1,054.5        | -20.6           | -1,054.5                      | 3.28                          | -2.53                       | -2.11                       |
| 9,776.0                          | 84.00              | 183.70         | 8,971.6                     | -1,117.0        | -25.4           | -1,117.0                      | 2.33                          | -1.11                       | -2.06                       |
| 9,808.0                          | 83.20              | 180.90         | 8,975.1                     | -1,148.8        | -26.6           | -1,148.8                      | 9.05                          | -2.50                       | -8.75                       |
| 9,840.0                          | 82.80              | 177.90         | 8,979.0                     | -1,180.6        | -26.3           | -1,180.6                      | 9.39                          | -1.25                       | -9.38                       |
| 9,871.0                          | 85.20              | 176.30         | 8,982.3                     | -1,211.3        | -24.8           | -1,211.3                      | 9.29                          | 7.74                        | -5.16                       |
| 9,903.0                          | 88.60              | 175.60         | 8,984.0                     | -1,243.2        | -22.5           | -1,243.2                      | 10.85                         | 10.63                       | -2.19                       |
| 9,935.0                          | 91.00              | 174.60         | 8,984.1                     | -1,275.1        | -19.8           | -1,275.1                      | 8.12                          | 7.50                        | -3.13                       |
| 9,998.0                          | 92.10              | 175.80         | 8,982.4                     | -1,337.8        | -14.5           | -1,337.8                      | 2.58                          | 1.75                        | 1.90                        |
| 10,093.0                         | 90.70              | 175.80         | 8,980.1                     | -1,432.6        | -7.5            | -1,432.6                      | 1.47                          | -1.47                       | 0.00                        |
| 10,187.0                         | 88.00              | 172.80         | 8,981.2                     | -1,526.1        | 1.8             | -1,526.1                      | 4.29                          | -2.87                       | -3.19                       |
| 10,219.0                         | 88.30              | 172.90         | 8,982.2                     | -1,557.8        | 5.8             | -1,557.8                      | 0.99                          | 0.94                        | 0.31                        |
| 10,251.0                         | 90.20              | 172.70         | 8,982.6                     | -1,589.6        | 9.8             | -1,589.6                      | 5.97                          | 5.94                        | -0.63                       |
| 10,283.0                         | 94.10              | 173.40         | 8,981.4                     | -1,621.3        | 13.7            | -1,621.3                      | 12.38                         | 12.19                       | 2.19                        |
| 10,314.0                         | 95.10              | 173.90         | 8,978.9                     | -1,652.0        | 17.1            | -1,652.0                      | 3.60                          | 3.23                        | 1.61                        |
| 10,346.0                         | 95.10              | 174.00         | 8,976.1                     | -1,683.7        | 20.4            | -1,683.7                      | 0.31                          | 0.00                        | 0.31                        |
| 10,377.0                         | 94.70              | 173.90         | 8,973.4                     | -1,714.4        | 23.7            | -1,714.4                      | 1.33                          | -1.29                       | -0.32                       |
| 10,409.0                         | 94.60              | 175.20         | 8,970.8                     | -1,746.2        | 26.7            | -1,746.2                      | 4.06                          | -0.31                       | 4.06                        |
| 10,440.0                         | 94.70              | 175.90         | 8,968.3                     | -1,777.0        | 29.1            | -1,777.0                      | 2.27                          | 0.32                        | 2.26                        |



# Stryker Directional Survey Report



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 19/30-23S-27E Jester 19/30 W0AH Fed  
Com #  
**Well:** Jester 19/30 W0AH Fed Com #1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Jester 19/30 W0AH Fed Com #1H  
**TVD Reference:** 3192 + 25 @ 3217.0usft (Patterson 243)  
**MD Reference:** 3192 + 25 @ 3217.0usft (Patterson 243)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

## Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Buidl<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 10,472.0                    | 94.00              | 176.30         | 8,965.9                     | -1,808.8        | 31.3            | -1,808.8                      | 2.52                          | -2.19                        | 1.25                        |
| 10,504.0                    | 93.30              | 177.40         | 8,963.9                     | -1,840.7        | 33.0            | -1,840.7                      | 4.07                          | -2.19                        | 3.44                        |
| 10,567.0                    | 90.90              | 177.50         | 8,961.6                     | -1,903.6        | 35.8            | -1,903.6                      | 3.81                          | -3.81                        | 0.16                        |
| 10,662.0                    | 89.90              | 177.60         | 8,960.9                     | -1,998.5        | 39.9            | -1,998.5                      | 1.06                          | -1.05                        | 0.11                        |
| 10,757.0                    | 89.70              | 178.00         | 8,961.2                     | -2,093.4        | 43.5            | -2,093.4                      | 0.47                          | -0.21                        | 0.42                        |
| 10,852.0                    | 89.50              | 178.80         | 8,961.9                     | -2,188.4        | 46.2            | -2,188.4                      | 0.87                          | -0.21                        | 0.84                        |
| 10,947.0                    | 91.30              | 181.90         | 8,961.2                     | -2,283.4        | 45.6            | -2,283.4                      | 3.77                          | 1.89                         | 3.26                        |
| 11,042.0                    | 89.80              | 181.70         | 8,960.3                     | -2,378.3        | 42.6            | -2,378.3                      | 1.59                          | -1.58                        | -0.21                       |
| 11,137.0                    | 87.30              | 180.80         | 8,962.7                     | -2,473.2        | 40.6            | -2,473.2                      | 2.80                          | -2.63                        | -0.95                       |
| 11,231.0                    | 88.50              | 178.60         | 8,966.2                     | -2,567.2        | 41.1            | -2,567.2                      | 2.66                          | 1.28                         | -2.34                       |
| 11,326.0                    | 90.80              | 179.50         | 8,966.7                     | -2,662.1        | 42.6            | -2,662.1                      | 2.60                          | 2.42                         | 0.95                        |
| 11,421.0                    | 89.60              | 179.20         | 8,966.4                     | -2,757.1        | 43.7            | -2,757.1                      | 1.30                          | -1.26                        | -0.32                       |
| 11,516.0                    | 94.70              | 181.50         | 8,962.9                     | -2,852.0        | 43.1            | -2,852.0                      | 5.89                          | 5.37                         | 2.42                        |
| 11,611.0                    | 90.50              | 182.10         | 8,958.5                     | -2,946.9        | 40.1            | -2,946.9                      | 4.47                          | -4.42                        | 0.63                        |
| 11,706.0                    | 88.10              | 181.50         | 8,959.7                     | -3,041.8        | 37.2            | -3,041.8                      | 2.60                          | -2.53                        | -0.63                       |
| 11,801.0                    | 87.10              | 182.20         | 8,963.7                     | -3,136.7        | 34.1            | -3,136.7                      | 1.28                          | -1.05                        | 0.74                        |
| 11,896.0                    | 87.50              | 182.80         | 8,968.2                     | -3,231.5        | 30.0            | -3,231.5                      | 0.76                          | 0.42                         | 0.63                        |
| 11,991.0                    | 91.60              | 181.60         | 8,968.9                     | -3,326.4        | 26.3            | -3,326.4                      | 4.50                          | 4.32                         | -1.26                       |
| 12,086.0                    | 90.70              | 180.70         | 8,967.0                     | -3,421.3        | 24.4            | -3,421.3                      | 1.34                          | -0.95                        | -0.95                       |
| 12,181.0                    | 89.20              | 178.10         | 8,967.1                     | -3,516.3        | 25.4            | -3,516.3                      | 3.16                          | -1.58                        | -2.74                       |
| 12,276.0                    | 92.50              | 177.10         | 8,965.7                     | -3,611.2        | 29.4            | -3,611.2                      | 3.63                          | 3.47                         | -1.05                       |
| 12,371.0                    | 91.10              | 175.60         | 8,962.7                     | -3,706.0        | 35.4            | -3,706.0                      | 2.16                          | -1.47                        | -1.58                       |
| 12,465.0                    | 88.90              | 175.40         | 8,962.7                     | -3,799.7        | 42.8            | -3,799.7                      | 2.35                          | -2.34                        | -0.21                       |
| 12,560.0                    | 88.60              | 174.90         | 8,964.8                     | -3,894.3        | 50.8            | -3,894.3                      | 0.61                          | -0.32                        | -0.53                       |
| 12,655.0                    | 89.10              | 175.40         | 8,966.7                     | -3,988.9        | 58.9            | -3,988.9                      | 0.74                          | 0.53                         | 0.53                        |
| 12,719.0                    | 89.20              | 175.50         | 8,967.6                     | -4,052.7        | 63.9            | -4,052.7                      | 0.22                          | 0.16                         | 0.16                        |
| 12,750.0                    | 90.40              | 176.70         | 8,967.7                     | -4,083.7        | 66.0            | -4,083.7                      | 5.47                          | 3.87                         | 3.87                        |
| 12,782.0                    | 90.80              | 176.80         | 8,967.4                     | -4,115.6        | 67.9            | -4,115.6                      | 1.29                          | 1.25                         | 0.31                        |
| 12,845.0                    | 92.20              | 177.70         | 8,965.7                     | -4,178.5        | 70.9            | -4,178.5                      | 2.64                          | 2.22                         | 1.43                        |
| 12,940.0                    | 93.00              | 178.30         | 8,961.4                     | -4,273.4        | 74.2            | -4,273.4                      | 1.05                          | 0.84                         | 0.63                        |
| 13,035.0                    | 91.00              | 177.40         | 8,958.1                     | -4,368.2        | 77.8            | -4,368.2                      | 2.31                          | -2.11                        | -0.95                       |
| 13,130.0                    | 89.60              | 177.10         | 8,957.6                     | -4,463.1        | 82.3            | -4,463.1                      | 1.51                          | -1.47                        | -0.32                       |
| 13,225.0                    | 91.60              | 177.50         | 8,956.6                     | -4,558.0        | 86.8            | -4,558.0                      | 2.15                          | 2.11                         | 0.42                        |
| 13,321.0                    | 92.30              | 178.40         | 8,953.4                     | -4,653.9        | 90.2            | -4,653.9                      | 1.19                          | 0.73                         | 0.94                        |
| 13,415.0                    | 91.60              | 178.20         | 8,950.2                     | -4,747.8        | 93.0            | -4,747.8                      | 0.77                          | -0.74                        | -0.21                       |
| 13,510.0                    | 92.90              | 180.90         | 8,946.4                     | -4,842.7        | 93.8            | -4,842.7                      | 3.15                          | 1.37                         | 2.84                        |
| 13,605.0                    | 89.80              | 182.50         | 8,944.2                     | -4,937.6        | 90.9            | -4,937.6                      | 3.67                          | -3.26                        | 1.68                        |
| 13,700.0                    | 88.70              | 182.40         | 8,945.4                     | -5,032.5        | 86.9            | -5,032.5                      | 1.16                          | -1.16                        | -0.11                       |
| 13,795.0                    | 89.10              | 183.20         | 8,947.3                     | -5,127.4        | 82.2            | -5,127.4                      | 0.94                          | 0.42                         | 0.84                        |
| 13,891.0                    | 86.60              | 181.80         | 8,950.9                     | -5,223.2        | 78.0            | -5,223.2                      | 2.98                          | -2.60                        | -1.46                       |
| 13,985.0                    | 86.50              | 180.90         | 8,956.5                     | -5,317.0        | 75.8            | -5,317.0                      | 0.96                          | -0.11                        | -0.96                       |
| 14,080.0                    | 91.80              | 180.00         | 8,957.9                     | -5,412.0        | 75.1            | -5,412.0                      | 5.66                          | 5.58                         | -0.95                       |



# Stryker Directional Survey Report



Company: Mewbourne Oil Company

Project: Eddy County, New Mexico

Site: Section 19/30-23S-27E Jester 19/30 W0AH Fed  
Com #

Well: Jester 19/30 W0AH Fed Com #1H

Wellbore: Original Hole

Design: Original Hole

Local Co-ordinate Reference: Well Jester 19/30 W0AH Fed Com #1H

TVD Reference: 3192 + 25 @ 3217.0usft (Patterson 243)

MD Reference: 3192 + 25 @ 3217.0usft (Patterson 243)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: Stryker\_EDM

## Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 14,176.0                    | 89.00              | 178.10         | 8,957.3                     | -5,507.9        | 76.7            | -5,507.9                      | 3.52                          | -2.92                        | -1.98                       |
| 14,270.0                    | 94.70              | 182.60         | 8,954.2                     | -5,601.8        | 76.1            | -5,601.8                      | 7.72                          | 6.06                         | 4.79                        |
| 14,365.0                    | 94.20              | 182.80         | 8,946.8                     | -5,696.4        | 71.7            | -5,696.4                      | 0.57                          | -0.53                        | 0.21                        |
| 14,461.0                    | 90.30              | 182.80         | 8,943.1                     | -5,792.2        | 67.0            | -5,792.2                      | 4.06                          | -4.06                        | 0.00                        |
| 14,555.0                    | 90.90              | 183.10         | 8,942.1                     | -5,886.1        | 62.1            | -5,886.1                      | 0.71                          | 0.64                         | 0.32                        |
| 14,650.0                    | 88.90              | 183.00         | 8,942.3                     | -5,981.0        | 57.1            | -5,981.0                      | 2.11                          | -2.11                        | -0.11                       |
| 14,745.0                    | 91.10              | 184.30         | 8,942.3                     | -6,075.8        | 51.0            | -6,075.8                      | 2.69                          | 2.32                         | 1.37                        |
| 14,841.0                    | 89.40              | 183.70         | 8,941.8                     | -6,171.5        | 44.3            | -6,171.5                      | 1.88                          | -1.77                        | -0.63                       |
| 14,935.0                    | 88.00              | 182.80         | 8,944.0                     | -6,265.3        | 39.0            | -6,265.3                      | 1.77                          | -1.49                        | -0.96                       |
| 15,030.0                    | 89.40              | 183.70         | 8,946.1                     | -6,360.2        | 33.6            | -6,360.2                      | 1.75                          | 1.47                         | 0.95                        |
| 15,125.0                    | 91.20              | 182.50         | 8,945.6                     | -6,455.0        | 28.5            | -6,455.0                      | 2.28                          | 1.89                         | -1.26                       |
| 15,220.0                    | 91.20              | 182.60         | 8,943.6                     | -6,549.9        | 24.3            | -6,549.9                      | 0.11                          | 0.00                         | 0.11                        |
| 15,315.0                    | 90.00              | 183.30         | 8,942.6                     | -6,644.8        | 19.4            | -6,644.8                      | 1.46                          | -1.26                        | 0.74                        |
| 15,410.0                    | 90.70              | 183.10         | 8,942.1                     | -6,739.6        | 14.1            | -6,739.6                      | 0.77                          | 0.74                         | -0.21                       |
| 15,505.0                    | 89.00              | 185.20         | 8,942.3                     | -6,834.4        | 7.2             | -6,834.4                      | 2.84                          | -1.79                        | 2.21                        |
| 15,600.0                    | 90.80              | 185.80         | 8,942.5                     | -6,928.9        | -1.9            | -6,928.9                      | 2.00                          | 1.89                         | 0.63                        |
| 15,694.0                    | 92.70              | 187.40         | 8,939.6                     | -7,022.2        | -12.7           | -7,022.2                      | 2.64                          | 2.02                         | 1.70                        |
| 15,789.0                    | 89.50              | 185.00         | 8,937.8                     | -7,116.6        | -23.0           | -7,116.6                      | 4.21                          | -3.37                        | -2.53                       |
| 15,885.0                    | 88.00              | 184.00         | 8,939.9                     | -7,212.3        | -30.5           | -7,212.3                      | 1.88                          | -1.56                        | -1.04                       |
| 15,979.0                    | 91.20              | 185.60         | 8,940.5                     | -7,306.0        | -38.4           | -7,306.0                      | 3.81                          | 3.40                         | 1.70                        |
| 16,021.0                    | 89.30              | 185.00         | 8,940.4                     | -7,347.8        | -42.2           | -7,347.8                      | 4.74                          | -4.52                        | -1.43                       |
| 16,070.0                    | 89.30              | 185.00         | 8,941.0                     | -7,396.6        | -46.5           | -7,396.6                      | 0.00                          | 0.00                         | 0.00                        |

16070' MD Projected to Bit - PBHL Jester 19 30 W0AH Fed Com #1H

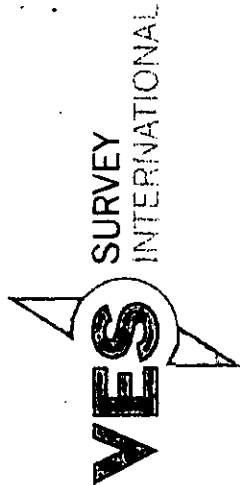
## Design Annotations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                    |
|-----------------------------|-----------------------------|-------------------|-----------------|----------------------------|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                            |
| 8,300.0                     | 8,298.9                     | -62.1             | -17.0           | 8300' MD Ves Gyro Survey   |
| 16,070.0                    | 8,941.0                     | -7,396.6          | -46.5           | 16070' MD Projected to Bit |

Company: Mewbourne Oil & Gas  
Lease/Well: Jester 19 30 Woah Federal Com/1H

Rig Name: Patterson 243  
State/County: New Mexico/Eddy  
VS-Azi: 0.00 Degrees

Latitude: 32.29694, Longitude: -104.22248  
Grid Convergence Applied = -0.06 degs (NAD 27)  
Grid North = True North -0.06 degs



Depth Reference : RKB= 25.6

DRILLOG HA GYRO SURVEY CALCULATIONS  
Filename: jester19-30woahfedcom1h-de\_01.ut  
Minimum Curvature Method  
Report Date/Time: 6/18/2015 / 09:11

VES Survey International  
Ft. Worth, Texas  
817-741-3610

Surveyor: Gregg Wilson  
Jester 19 30 Woah Federal Com 1H / API 30-015-42830

| Measured<br>Depth<br>FT | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | TVD<br>FT | +N/-S<br>FT | +E/-W<br>FT | Vertical<br>Section<br>FT | Closure<br>Distance<br>FT | Closure<br>Direction<br>Deg | Dogleg<br>Severity<br>Deg/100 |
|-------------------------|----------------------|---------------------------|-----------|-------------|-------------|---------------------------|---------------------------|-----------------------------|-------------------------------|
| 0.00                    | 0.00                 | 0.00                      | 0.00      | 0.00        | 0.00        | 0.00                      | 0.00                      | 0.00                        | ****                          |
| 100.00                  | 0.97                 | 209.39                    | 100.00    | -0.74       | -0.42       | -0.74                     | 0.85                      | 209.39                      | 0.97                          |
| 200.00                  | 0.99                 | 205.15                    | 199.98    | -2.26       | -1.20       | -2.26                     | 2.56                      | 207.95                      | 0.08                          |
| 300.00                  | 0.80                 | 214.56                    | 299.97    | -3.62       | -1.96       | -3.62                     | 4.12                      | 208.48                      | 0.24                          |
| 400.00                  | 0.66                 | 275.09                    | 399.96    | -4.14       | -2.93       | -4.14                     | 5.07                      | 215.27                      | 0.74                          |
| 500.00                  | 0.82                 | 283.57                    | 499.95    | -3.92       | -4.20       | -3.92                     | 5.74                      | 226.94                      | 0.20                          |
| 600.00                  | 0.63                 | 277.17                    | 599.95    | -3.68       | -5.44       | -3.68                     | 6.57                      | 235.89                      | 0.21                          |
| 700.00                  | 0.81                 | 200.23                    | 699.94    | -4.28       | -6.23       | -4.28                     | 7.56                      | 235.52                      | 0.91                          |
| 800.00                  | 0.23                 | 189.47                    | 799.93    | -5.14       | -6.51       | -5.14                     | 8.30                      | 231.68                      | 0.58                          |
| 900.00                  | 0.94                 | 276.99                    | 899.93    | -5.25       | -7.36       | -5.25                     | 9.04                      | 234.52                      | 0.96                          |
| 1000.00                 | 0.57                 | 358.25                    | 999.92    | -4.64       | -8.19       | -4.64                     | 9.42                      | 240.45                      | 1.03                          |
| 1100.00                 | 1.53                 | 97.59                     | 1099.91   | -4.32       | -6.89       | -4.32                     | 8.13                      | 237.90                      | 1.72                          |
| 1200.00                 | 0.67                 | 45.58                     | 1199.89   | -4.09       | -6.15       | -4.09                     | 6.57                      | 231.57                      | 1.23                          |
| 1300.00                 | 0.36                 | 45.92                     | 1299.89   | -3.46       | -4.50       | -3.46                     | 5.68                      | 232.50                      | 0.31                          |
| 1400.00                 | 0.86                 | 71.83                     | 1399.88   | -3.00       | -3.56       | -3.00                     | 4.66                      | 229.89                      | 0.56                          |
| 1500.00                 | 0.24                 | 133.04                    | 1499.88   | -2.91       | -2.70       | -2.91                     | 3.97                      | 222.78                      | 0.77                          |
| 1600.00                 | 1.12                 | 154.19                    | 1599.87   | -3.94       | -2.11       | -3.94                     | 4.47                      | 208.23                      | 0.90                          |

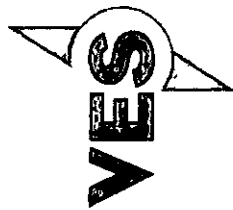


MEWBOURNE  
OIL COMPANY

VES Survey International  
Ft. Worth, Texas  
817-741-3610

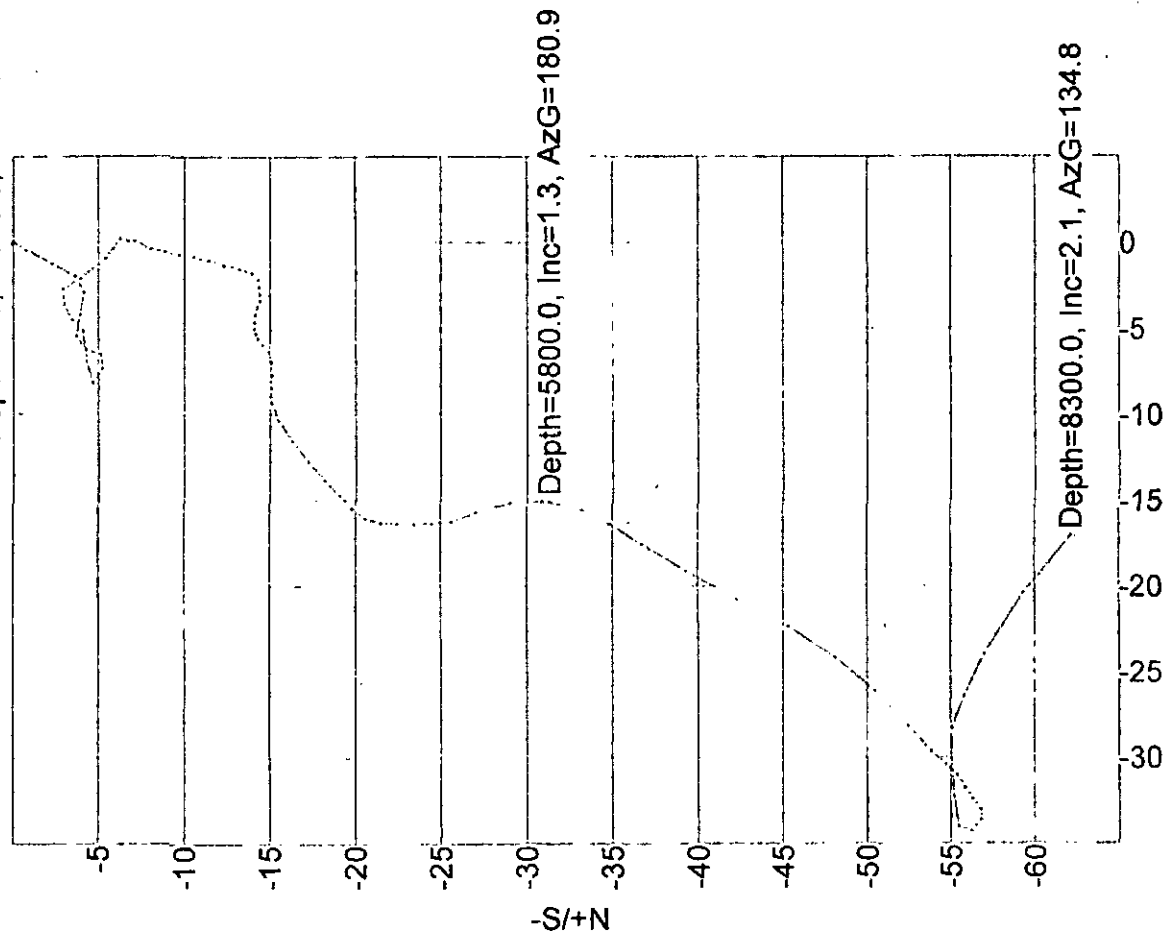
Surveyor: Gregg Wilson

Jester 19 30 Woah Federal Com 1H / API 30-015-42830



SURVEY  
INTERNATIONAL

Depth=0.0, Inc=0.0, AzG=0.0



-W/+E

VES Survey Date: 6/13/2015



COMPANY: Mewbourne Oil Company  
WELL: Jester 19/30 W0AH Fed Com #1H  
COUNTY: Eddy County, New Mexico  
DATUM: NAD 1927 (NADCON CONUS)



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.42°

OFFICE: 936.582.7296

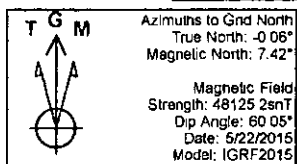
GEODETIC ZONE: New Mexico East 3001  
3192 + 25 @ 3217.0usft (Patterson 243)

GROUND ELEVATION: 3192.0

| +N/-S | +E/-W | Northing  | Easting   | Latitude         | Longitude         | Sic |
|-------|-------|-----------|-----------|------------------|-------------------|-----|
| 0.0   | 0.0   | 471761.30 | 534253.50 | 32° 17' 48.983 N | 104° 13' 20.919 W |     |

#### PLAN SECTIONS

| Sec | MD      | Inc   | Azi    | TVD    | +N/-S   | +E/-W | Diag | TFace | VSec   | Target                             |
|-----|---------|-------|--------|--------|---------|-------|------|-------|--------|------------------------------------|
| 1   | 8300.0  | 2.08  | 134.81 | 8296.9 | -62.1   | -17.0 | 0.00 | 0.00  | 62.0   |                                    |
| 2   | 8381.0  | 2.08  | 134.81 | 8379.9 | -64.2   | -15.0 | 0.00 | 0.00  | 64.1   |                                    |
| 3   | 9314.6  | 90.17 | 179.55 | 8967.2 | -688.8  | 4.8   | 9.50 | 44.76 | 688.8  |                                    |
| 4   | 16051.8 | 90.17 | 179.55 | 8947.0 | -7405.7 | 57.6  | 0.00 | 0.00  | 7405.9 | PBHL Jester 19 30 W0AH Fed Com #1H |



**SHL : Section19-23S-27E**  
**185' FNL; 710' FEL**  
**PBHL:Section30-23S-27E**  
**2310' FNL; 660' FEL**

