

OPERATOR MEWBOURNE OIL COMPANY  
WELL/LEASE FNR FED COM 17/20 B2JO 1H  
COUNTY EDDY

RIG 243

STATE OF NEW MEXICO  
DEVIATION REPORT

30-015-43239

237

0.75

NM OIL CONSERVATION

ARTESIA DISTRICT

NOV 05 2015

RECEIVED

STATE OF TEXAS

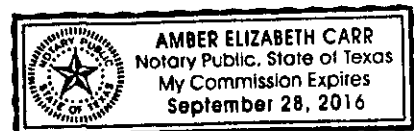
COUNTY OF MIDLAND

BY: *Dora Garcia*

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

10/8/15, by

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





COMPANY: Mewbourne Oil Company  
 WELL: Forty Niner Ridge Fed Com 17/20 B2JO #1H  
 COUNTY: Eddy County, New Mexico  
 DATUM: NAD 1927 (NADCON CONUS)  
 RIG: Patterson Patterson



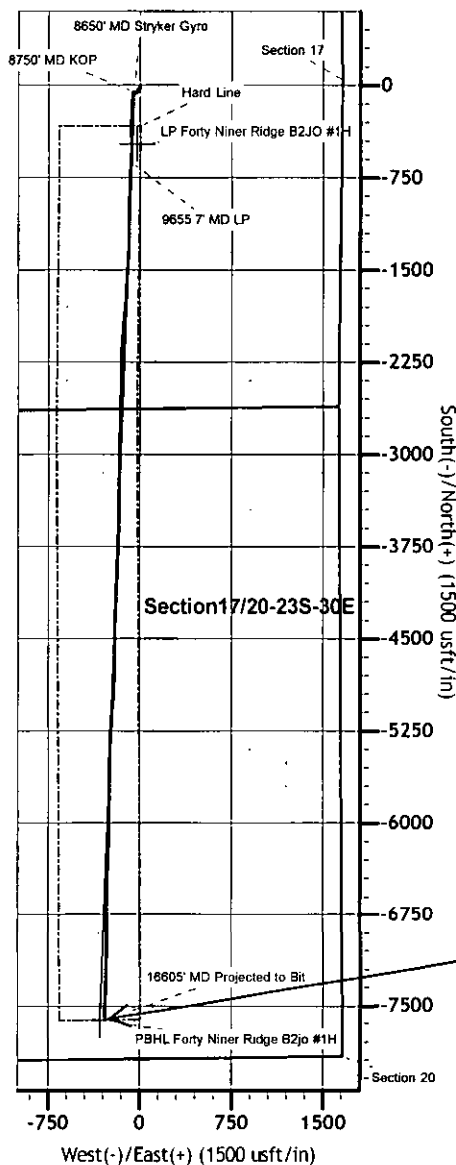
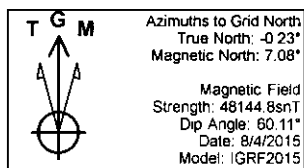
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.08°

OFFICE: 936.582.7296

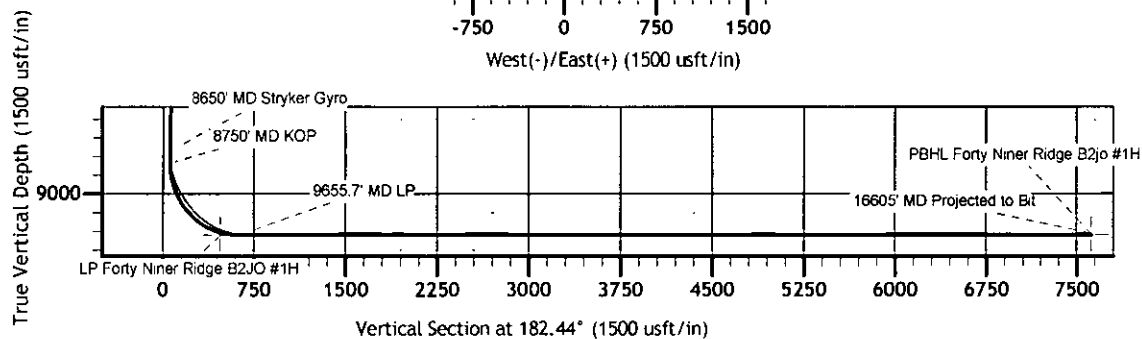
|                                      |       |           |           |                  |                   |
|--------------------------------------|-------|-----------|-----------|------------------|-------------------|
| GEODETTIC ZONE: New Mexico East 3001 |       |           |           |                  |                   |
| 3217 +20 @ 3237.0usft (Patterson)    |       |           |           |                  |                   |
| GROUND ELEVATION: 3217.0             |       |           |           |                  |                   |
| +N/-S                                | +E/-W | Northing  | Easting   | Latitude         | Longitude         |
| 0.0                                  | 0.0   | 474916.20 | 633972.50 | 32° 18' 17.699 N | 103° 53' 58.982 W |

| PLAN SECTIONS |         |       |        |        |         |        |       |        |        |                                 |  |
|---------------|---------|-------|--------|--------|---------|--------|-------|--------|--------|---------------------------------|--|
| Sec           | MD      | Inc   | Azi    | TVD    | +N/-S   | +E/-W  | Dleg  | TFace  | VSect  | Target                          |  |
| 1             | 8650.0  | 0.78  | 47.74  | 8648.5 | -56.8   | -54.6  | 0.00  | 0.00   | 58.9   |                                 |  |
| 2             | 8750.0  | 0.78  | 47.74  | 8748.4 | -55.7   | -53.6  | 0.00  | 0.00   | 57.9   |                                 |  |
| 3             | 9655.7  | 90.00 | 182.09 | 9327.0 | -628.6  | -68.9  | 10.00 | 134.35 | 631.0  |                                 |  |
| 4             | 18645.0 | 90.00 | 182.09 | 9327.0 | -7613.3 | -324.0 | 0.00  | 0.00   | 7620.2 | PBHL Forty Niner Ridge B2jo #1H |  |

SHL 2630' FSL; 1655' FEL  
 Section 17-23S-30E  
 PBHL 330' FSL; 1980' FEL  
 Section 20-23S-30E



335.66' FSL; 1,939.47' FEL





NM OIL CONSERVATION  
ARTESIA DISTRICT  
NOV 05 2015

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# **Mewbourne Oil Company .**

Eddy County, New Mexico

Section 17/20-23S-30E Forty Niner Ridge Fed Com B2J

Forty Niner Ridge Fed Com 17/20 B2JO #1H

Original Hole

Design: Original Hole

## **Standard Survey Report**

11 September, 2015





# Stryker Directional Survey Report



|                  |                                                    |                                     |                                               |
|------------------|----------------------------------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Forty Niner Ridge Fed Com 17/20 B2JO #1H |
| <b>Project:</b>  | Eddy County, New Mexico                            | <b>TVD Reference:</b>               | 3217 +20 @ 3237.0usft (Patterson)             |
| <b>Site:</b>     | Section17/20-23S-30E Forty Niner Ridge Fed Com B2J | <b>MD Reference:</b>                | 3217 +20 @ 3237.0usft (Patterson)             |
| <b>Well:</b>     | Forty Niner Ridge Fed Com 17/20 B2JO #1H           | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | Stryker_EDM                                   |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Eddy County, New Mexico              |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

|                              |                                                    |                               |                                     |
|------------------------------|----------------------------------------------------|-------------------------------|-------------------------------------|
| <b>Site</b>                  | Section17/20-23S-30E Forty Niner Ridge Fed Com B2J |                               |                                     |
| <b>Site Position:</b>        | <b>Northing:</b>                                   | 474,916.20 usft               | <b>Latitude:</b> 32° 18' 17.699 N   |
| <b>From:</b> Map             | <b>Easting:</b>                                    | 633,972.50 usft               | <b>Longitude:</b> 103° 53' 58.982 W |
| <b>Position Uncertainty:</b> | 0.0 usft                                           | <b>Slot Radius:</b> 13-3/16 " | <b>Grid Convergence:</b> 0.23 °     |

|                             |                                          |                            |                                   |
|-----------------------------|------------------------------------------|----------------------------|-----------------------------------|
| <b>Well</b>                 | Forty Niner Ridge Fed Com 17/20 B2JO #1H |                            |                                   |
| <b>Well Position</b>        | <b>+N/-S</b>                             | 0.0 usft                   | <b>Northing:</b> 474,916.20 usft  |
|                             | <b>+E/-W</b>                             | 0.0 usft                   | <b>Easting:</b> 633,972.50 usft   |
| <b>Position Uncertainty</b> | 0.0 usft                                 | <b>Wellhead Elevation:</b> | 20.0 usft                         |
|                             |                                          |                            | <b>Ground Level:</b> 3,217.0 usft |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Original Hole     |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 8/4/2015           | 7.31                   | 60.11                | 48,145                     |

|                          |                                |                     |                     |                          |
|--------------------------|--------------------------------|---------------------|---------------------|--------------------------|
| <b>Design</b>            | Original Hole                  |                     |                     |                          |
| <b>Audit Notes:</b>      |                                |                     |                     |                          |
| <b>Version:</b>          | 1.0                            | <b>Phase:</b>       | ACTUAL              | <b>Tie On Depth:</b> 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Direction (°)</b>     |
|                          | 0.0                            | 0.0                 | 0.0                 | 182.44                   |

|                       |                  |                                        |                  |                                |
|-----------------------|------------------|----------------------------------------|------------------|--------------------------------|
| <b>Survey Program</b> | Date 9/11/2015   |                                        |                  |                                |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b>               | <b>Tool Name</b> | <b>Description</b>             |
| 100.0                 | 8,650.0          | Stryker Gyro Survey #1 (Original Hole) | SRG-GYRO-MS      | surface readout gyro multishot |
| 8,763.0               | 16,605.0         | Survey #3 (Original Hole)              | MWD              | MWD v3:standard declination    |

|                              |                        |                    |                              |                     |                     |                                |                                |                               |                              |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|
| <b>Survey</b>                |                        |                    |                              |                     |                     |                                |                                |                               |                              |
| <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Vertical Section (usft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> |
| 0.0                          | 0.00                   | 0.00               | 0.0                          | 0.0                 | 0.0                 | 0.0                            | 0.00                           | 0.00                          | 0.00                         |
| 100.0                        | 0.51                   | 180.34             | 100.0                        | -0.4                | 0.0                 | 0.4                            | 0.51                           | 0.51                          | 0.00                         |
| 200.0                        | 0.81                   | 179.22             | 200.0                        | -1.6                | 0.0                 | 1.6                            | 0.30                           | 0.30                          | -1.12                        |
| 300.0                        | 0.88                   | 173.81             | 300.0                        | -3.1                | 0.1                 | 3.1                            | 0.11                           | 0.07                          | -5.41                        |
| 400.0                        | 0.82                   | 172.94             | 400.0                        | -4.5                | 0.3                 | 4.5                            | 0.06                           | -0.06                         | -0.87                        |
| 500.0                        | 0.96                   | 182.07             | 500.0                        | -6.1                | 0.3                 | 6.1                            | 0.20                           | 0.14                          | 9.13                         |
| 600.0                        | 1.09                   | 192.18             | 599.9                        | -7.9                | 0.1                 | 7.8                            | 0.22                           | 0.13                          | 10.11                        |
| 700.0                        | 1.14                   | 178.70             | 699.9                        | -9.8                | -0.1                | 9.8                            | 0.27                           | 0.05                          | -13.48                       |

# Stryker Directional Survey Report



|                  |                                                    |                                     |                                               |
|------------------|----------------------------------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Forty Niner Ridge Fed Com 17/20 B2JO #1H |
| <b>Project:</b>  | Eddy County, New Mexico                            | <b>TVD Reference:</b>               | 3217 +20 @ 3237.0usft (Patterson)             |
| <b>Site:</b>     | Section17/20-23S-30E Forty Niner Ridge Fed Com B2J | <b>MD Reference:</b>                | 3217 +20 @ 3237.0usft (Patterson)             |
| <b>Well:</b>     | Forty Niner Ridge Fed Com 17/20 B2JO #1H           | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | 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) |  |
| 800.0                 | 1.61            | 157.77      | 799.9                 | -12.1        | 0.5          | 12.0                    | 0.68                    | 0.47                   | -20.93                |  |
| 900.0                 | 1.60            | 200.55      | 899.9                 | -14.7        | 0.5          | 14.6                    | 1.17                    | -0.01                  | 42.78                 |  |
| 1,000.0               | 1.57            | 202.03      | 999.8                 | -17.3        | -0.5         | 17.3                    | 0.05                    | -0.03                  | 1.48                  |  |
| 1,100.0               | 1.67            | 190.58      | 1,099.8               | -20.0        | -1.3         | 20.0                    | 0.34                    | 0.10                   | -11.45                |  |
| 1,200.0               | 1.21            | 200.17      | 1,199.7               | -22.4        | -1.9         | 22.4                    | 0.52                    | -0.46                  | 9.59                  |  |
| 1,300.0               | 1.28            | 196.67      | 1,299.7               | -24.4        | -2.6         | 24.5                    | 0.10                    | 0.07                   | -3.50                 |  |
| 1,400.0               | 1.42            | 185.57      | 1,399.7               | -26.7        | -3.0         | 26.9                    | 0.30                    | 0.14                   | -11.10                |  |
| 1,500.0               | 0.50            | 281.62      | 1,499.7               | -27.9        | -3.6         | 28.0                    | 1.55                    | -0.92                  | 96.05                 |  |
| 1,600.0               | 2.18            | 2.05        | 1,599.7               | -25.9        | -3.9         | 26.0                    | 2.15                    | 1.68                   | 80.43                 |  |
| 1,700.0               | 0.57            | 33.53       | 1,699.6               | -23.6        | -3.6         | 23.7                    | 1.72                    | -1.61                  | 31.48                 |  |
| 1,800.0               | 0.17            | 211.18      | 1,799.6               | -23.3        | -3.4         | 23.4                    | 0.74                    | -0.40                  | 177.65                |  |
| 1,900.0               | 0.75            | 224.59      | 1,899.6               | -23.9        | -3.9         | 24.0                    | 0.59                    | 0.58                   | 13.41                 |  |
| 2,000.0               | 0.89            | 244.22      | 1,999.6               | -24.7        | -5.1         | 24.9                    | 0.31                    | 0.14                   | 19.63                 |  |
| 2,100.0               | 1.41            | 241.19      | 2,099.6               | -25.6        | -6.9         | 25.9                    | 0.52                    | 0.52                   | -3.03                 |  |
| 2,200.0               | 1.46            | 238.88      | 2,199.6               | -26.9        | -9.0         | 27.2                    | 0.08                    | 0.05                   | -2.31                 |  |
| 2,300.0               | 1.31            | 200.77      | 2,299.5               | -28.6        | -10.5        | 29.0                    | 0.92                    | -0.15                  | -38.11                |  |
| 2,400.0               | 1.34            | 232.41      | 2,399.5               | -30.4        | -11.9        | 30.9                    | 0.72                    | 0.03                   | 31.64                 |  |
| 2,500.0               | 1.23            | 258.59      | 2,499.5               | -31.3        | -13.8        | 31.9                    | 0.59                    | -0.11                  | 26.18                 |  |
| 2,600.0               | 1.47            | 265.69      | 2,599.5               | -31.6        | -16.2        | 32.3                    | 0.29                    | 0.24                   | 7.10                  |  |
| 2,700.0               | 1.42            | 247.23      | 2,699.4               | -32.2        | -18.6        | 33.0                    | 0.47                    | -0.05                  | -18.46                |  |
| 2,800.0               | 1.58            | 255.14      | 2,799.4               | -33.0        | -21.1        | 33.9                    | 0.26                    | 0.16                   | 7.91                  |  |
| 2,900.0               | 1.40            | 216.90      | 2,899.4               | -34.4        | -23.1        | 35.3                    | 0.99                    | -0.18                  | -38.24                |  |
| 3,000.0               | 1.69            | 155.20      | 2,999.3               | -36.7        | -23.3        | 37.6                    | 1.60                    | 0.29                   | -61.70                |  |
| 3,100.0               | 1.57            | 184.15      | 3,099.3               | -39.4        | -22.7        | 40.3                    | 0.82                    | -0.12                  | 28.95                 |  |
| 3,200.0               | 1.37            | 123.46      | 3,199.3               | -41.4        | -21.8        | 42.3                    | 1.50                    | -0.20                  | -60.69                |  |
| 3,300.0               | 1.45            | 129.96      | 3,299.2               | -42.9        | -19.9        | 43.7                    | 0.18                    | 0.08                   | 6.50                  |  |
| 3,400.0               | 0.45            | 168.55      | 3,399.2               | -44.1        | -18.8        | 44.8                    | 1.13                    | -1.00                  | 38.59                 |  |
| 3,500.0               | 0.63            | 96.94       | 3,499.2               | -44.5        | -18.2        | 45.3                    | 0.65                    | 0.18                   | -71.61                |  |
| 3,600.0               | 0.69            | 146.31      | 3,599.2               | -45.1        | -17.3        | 45.8                    | 0.55                    | 0.06                   | 49.37                 |  |
| 3,700.0               | 0.11            | 192.97      | 3,699.2               | -45.7        | -17.0        | 46.4                    | 0.62                    | -0.58                  | 46.66                 |  |
| 3,800.0               | 0.20            | 164.96      | 3,799.2               | -46.0        | -17.0        | 46.6                    | 0.12                    | 0.09                   | -28.01                |  |
| 3,900.0               | 0.22            | 178.27      | 3,899.2               | -46.3        | -16.9        | 47.0                    | 0.05                    | 0.02                   | 13.31                 |  |
| 4,000.0               | 0.27            | 157.91      | 3,999.2               | -46.7        | -16.8        | 47.4                    | 0.10                    | 0.05                   | -20.36                |  |
| 4,100.0               | 0.40            | 147.14      | 4,099.2               | -47.2        | -16.6        | 47.9                    | 0.14                    | 0.13                   | -10.77                |  |
| 4,200.0               | 0.72            | 166.28      | 4,199.2               | -48.1        | -16.2        | 48.8                    | 0.37                    | 0.32                   | 19.14                 |  |
| 4,300.0               | 0.47            | 182.75      | 4,299.2               | -49.2        | -16.1        | 49.8                    | 0.30                    | -0.25                  | 16.47                 |  |
| 4,400.0               | 0.55            | 187.64      | 4,399.2               | -50.0        | -16.2        | 50.7                    | 0.09                    | 0.08                   | 4.89                  |  |
| 4,500.0               | 0.32            | 118.90      | 4,499.2               | -50.7        | -16.0        | 51.3                    | 0.53                    | -0.23                  | -68.74                |  |
| 4,600.0               | 0.40            | 240.31      | 4,599.2               | -51.0        | -16.1        | 51.6                    | 0.63                    | 0.08                   | 121.41                |  |
| 4,700.0               | 0.61            | 258.00      | 4,699.2               | -51.2        | -16.9        | 51.9                    | 0.26                    | 0.21                   | 17.69                 |  |
| 4,800.0               | 0.56            | 262.40      | 4,799.2               | -51.4        | -17.9        | 52.1                    | 0.07                    | -0.05                  | 4.40                  |  |
| 4,900.0               | 0.61            | 288.12      | 4,899.2               | -51.3        | -18.9        | 52.1                    | 0.26                    | 0.05                   | 25.72                 |  |



# Stryker Directional Survey Report



|                  |                                                    |                                     |                                               |
|------------------|----------------------------------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Forty Niner Ridge Fed Com 17/20 B2JO #1H |
| <b>Project:</b>  | Eddy County, New Mexico                            | <b>TVD Reference:</b>               | 3217 +20 @ 3237.0usft (Patterson)             |
| <b>Site:</b>     | Section17/20-23S-30E Forty Niner Ridge Fed Com B2J | <b>MD Reference:</b>                | 3217 +20 @ 3237.0usft (Patterson)             |
| <b>Well:</b>     | Forty Niner Ridge Fed Com 17/20 B2JO #1H           | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | 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) |
| 5,000.0                      | 0.55            | 297.47      | 4,999.2               | -50.9        | -19.8        | 51.7                    | 0.11                    | -0.06                  | 9.35                  |
| 5,100.0                      | 0.51            | 221.57      | 5,099.2               | -51.0        | -20.5        | 51.9                    | 0.65                    | -0.04                  | -75.90                |
| 5,200.0                      | 0.38            | 312.87      | 5,199.2               | -51.2        | -21.1        | 52.0                    | 0.64                    | -0.13                  | 91.30                 |
| 5,300.0                      | 0.53            | 211.60      | 5,299.2               | -51.3        | -21.5        | 52.2                    | 0.71                    | 0.15                   | -101.27               |
| 5,400.0                      | 0.50            | 321.83      | 5,399.2               | -51.4        | -22.1        | 52.3                    | 0.85                    | -0.03                  | 110.23                |
| 5,500.0                      | 0.44            | 316.18      | 5,499.2               | -50.8        | -22.6        | 51.7                    | 0.08                    | -0.06                  | -5.65                 |
| 5,600.0                      | 0.29            | 267.44      | 5,599.2               | -50.5        | -23.1        | 51.4                    | 0.33                    | -0.15                  | -48.74                |
| 5,700.0                      | 0.25            | 342.12      | 5,699.2               | -50.3        | -23.4        | 51.2                    | 0.33                    | -0.04                  | 74.68                 |
| 5,800.0                      | 0.06            | 318.11      | 5,799.2               | -50.0        | -23.5        | 51.0                    | 0.20                    | -0.19                  | -24.01                |
| 5,900.0                      | 0.57            | 123.36      | 5,899.2               | -50.3        | -23.2        | 51.2                    | 0.63                    | 0.51                   | 165.25                |
| 6,000.0                      | 0.39            | 350.64      | 5,999.1               | -50.2        | -22.8        | 51.1                    | 0.88                    | -0.18                  | -132.72               |
| 6,100.0                      | 0.92            | 177.74      | 6,099.1               | -50.7        | -22.8        | 51.6                    | 1.31                    | 0.53                   | -172.90               |
| 6,200.0                      | 1.56            | 242.87      | 6,199.1               | -52.1        | -24.0        | 53.1                    | 1.44                    | 0.64                   | 65.13                 |
| 6,300.0                      | 1.94            | 239.05      | 6,299.1               | -53.6        | -26.7        | 54.7                    | 0.40                    | 0.38                   | -3.82                 |
| 6,400.0                      | 1.41            | 243.29      | 6,399.0               | -55.0        | -29.2        | 56.2                    | 0.54                    | -0.53                  | 4.24                  |
| 6,500.0                      | 0.74            | 195.71      | 6,499.0               | -56.2        | -30.5        | 57.4                    | 1.06                    | -0.67                  | -47.58                |
| 6,600.0                      | 1.18            | 254.61      | 6,599.0               | -57.1        | -31.7        | 58.4                    | 1.02                    | 0.44                   | 58.90                 |
| 6,700.0                      | 1.20            | 253.47      | 6,699.0               | -57.7        | -33.7        | 59.0                    | 0.03                    | 0.02                   | -1.14                 |
| 6,800.0                      | 0.93            | 254.71      | 6,799.0               | -58.2        | -35.4        | 59.6                    | 0.27                    | -0.27                  | 1.24                  |
| 6,900.0                      | 1.02            | 257.63      | 6,899.0               | -58.6        | -37.1        | 60.1                    | 0.10                    | 0.09                   | 2.92                  |
| 7,000.0                      | 0.59            | 241.22      | 6,998.9               | -59.0        | -38.4        | 60.6                    | 0.48                    | -0.43                  | -16.41                |
| 7,100.0                      | 0.70            | 264.81      | 7,098.9               | -59.3        | -39.5        | 60.9                    | 0.28                    | 0.11                   | 23.59                 |
| 7,200.0                      | 0.73            | 231.75      | 7,198.9               | -59.8        | -40.6        | 61.4                    | 0.41                    | 0.03                   | -33.06                |
| 7,300.0                      | 0.58            | 211.18      | 7,298.9               | -60.6        | -41.3        | 62.3                    | 0.28                    | -0.15                  | -20.57                |
| 7,400.0                      | 0.53            | 219.23      | 7,398.9               | -61.4        | -41.9        | 63.1                    | 0.09                    | -0.05                  | 8.05                  |
| 7,500.0                      | 0.85            | 161.23      | 7,498.9               | -62.4        | -41.9        | 64.2                    | 0.73                    | 0.32                   | -58.00                |
| 7,600.0                      | 1.03            | 115.45      | 7,598.9               | -63.5        | -40.9        | 65.2                    | 0.75                    | 0.18                   | -45.78                |
| 7,700.0                      | 0.84            | 105.13      | 7,698.9               | -64.1        | -39.4        | 65.7                    | 0.25                    | -0.19                  | -10.32                |
| 7,800.0                      | 0.35            | 37.56       | 7,798.9               | -64.1        | -38.5        | 65.6                    | 0.78                    | -0.49                  | -67.57                |
| 7,900.0                      | 1.13            | 275.37      | 7,898.9               | -63.7        | -39.3        | 65.3                    | 1.35                    | 0.78                   | -122.19               |
| 8,000.0                      | 2.70            | 269.42      | 7,998.8               | -63.7        | -42.6        | 65.4                    | 1.58                    | 1.57                   | -5.95                 |
| 8,100.0                      | 2.82            | 274.25      | 8,098.7               | -63.5        | -47.4        | 65.5                    | 0.26                    | 0.12                   | 4.83                  |
| 8,200.0                      | 2.49            | 290.63      | 8,198.6               | -62.6        | -51.9        | 64.7                    | 0.82                    | -0.33                  | 16.38                 |
| 8,300.0                      | 2.17            | 297.25      | 8,298.5               | -60.9        | -55.6        | 63.2                    | 0.42                    | -0.32                  | 6.62                  |
| 8,400.0                      | 0.75            | 26.31       | 8,398.5               | -59.5        | -57.0        | 61.8                    | 2.28                    | -1.42                  | 89.06                 |
| 8,500.0                      | 0.96            | 41.43       | 8,498.5               | -58.3        | -56.2        | 60.6                    | 0.31                    | 0.21                   | 15.12                 |
| 8,600.0                      | 0.82            | 44.76       | 8,598.5               | -57.1        | -55.1        | 59.4                    | 0.15                    | -0.14                  | 3.33                  |
| 8,650.0                      | 0.78            | 47.74       | 8,648.5               | -56.6        | -54.6        | 58.9                    | 0.12                    | -0.08                  | 5.96                  |
| <b>8650' MD Stryker Gyro</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,763.0                      | 2.90            | 194.30      | 8,761.4               | -58.9        | -54.8        | 61.2                    | 3.17                    | 1.88                   | 129.70                |
| 8,794.0                      | 8.90            | 190.30      | 8,792.2               | -62.0        | -55.4        | 64.3                    | 19.39                   | 19.35                  | -12.90                |
| 8,825.0                      | 15.10           | 188.30      | 8,822.5               | -68.4        | -56.4        | 70.7                    | 20.04                   | 20.00                  | -6.45                 |



# Stryker Directional Survey Report



|                  |                                                    |                                     |                                               |
|------------------|----------------------------------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Forty Niner Ridge Fed Com 17/20 B2JO #1H |
| <b>Project:</b>  | Eddy County, New Mexico                            | <b>TVD Reference:</b>               | 3217 +20 @ 3237.0usft (Patterson)             |
| <b>Site:</b>     | Section17/20-23S-30E Forty Niner Ridge Fed Com B2J | <b>MD Reference:</b>                | 3217 +20 @ 3237.0usft (Patterson)             |
| <b>Well:</b>     | Forty Niner Ridge Fed Com 17/20 B2JO #1H           | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | 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) |  |
| 8,857.0                       | 19.40           | 187.60      | 8,853.1               | -77.8        | -57.7        | 80.2                    | 13.45                   | 13.44                  | -2.19                 |  |
| 8,888.0                       | 23.80           | 186.90      | 8,881.9               | -89.1        | -59.1        | 91.5                    | 14.22                   | 14.19                  | -2.26                 |  |
| 8,919.0                       | 26.60           | 187.30      | 8,910.0               | -102.2       | -60.8        | 104.7                   | 9.05                    | 9.03                   | 1.29                  |  |
| 8,951.0                       | 27.90           | 186.90      | 8,938.4               | -116.7       | -62.6        | 119.3                   | 4.10                    | 4.06                   | -1.25                 |  |
| 8,982.0                       | 28.10           | 186.00      | 8,965.8               | -131.2       | -64.2        | 133.8                   | 1.51                    | 0.65                   | -2.90                 |  |
| 9,014.0                       | 28.40           | 183.30      | 8,994.0               | -146.3       | -65.4        | 148.9                   | 4.10                    | 0.94                   | -8.44                 |  |
| 9,045.0                       | 29.90           | 182.80      | 9,021.0               | -161.4       | -66.2        | 164.0                   | 4.90                    | 4.84                   | -1.61                 |  |
| 9,077.0                       | 32.40           | 182.60      | 9,048.4               | -177.9       | -67.0        | 180.6                   | 7.82                    | 7.81                   | -0.63                 |  |
| 9,108.0                       | 37.10           | 181.90      | 9,073.9               | -195.5       | -67.7        | 198.2                   | 15.22                   | 15.16                  | -2.26                 |  |
| 9,140.0                       | 41.50           | 181.70      | 9,098.7               | -215.8       | -68.3        | 218.5                   | 13.76                   | 13.75                  | -0.63                 |  |
| 9,171.0                       | 45.10           | 181.30      | 9,121.2               | -237.0       | -68.9        | 239.8                   | 11.65                   | 11.61                  | -1.29                 |  |
| 9,203.0                       | 47.60           | 181.70      | 9,143.3               | -260.2       | -69.5        | 262.9                   | 7.86                    | 7.81                   | 1.25                  |  |
| 9,234.0                       | 49.00           | 182.60      | 9,163.9               | -283.3       | -70.4        | 286.1                   | 5.01                    | 4.52                   | 2.90                  |  |
| 9,266.0                       | 51.00           | 182.90      | 9,184.5               | -307.8       | -71.5        | 310.6                   | 6.29                    | 6.25                   | 0.94                  |  |
| 9,298.0                       | 53.80           | 183.10      | 9,204.0               | -333.1       | -72.9        | 335.9                   | 8.76                    | 8.75                   | 0.63                  |  |
| 9,329.0                       | 55.60           | 182.60      | 9,221.9               | -358.4       | -74.1        | 361.2                   | 5.95                    | 5.81                   | -1.61                 |  |
| 9,361.0                       | 58.10           | 180.50      | 9,239.4               | -385.2       | -74.8        | 388.0                   | 5.55                    | 7.81                   | -6.56                 |  |
| 9,392.0                       | 62.10           | 178.60      | 9,254.9               | -412.0       | -74.6        | 414.8                   | 13.95                   | 12.90                  | -6.13                 |  |
| 9,424.0                       | 65.70           | 177.00      | 9,268.9               | -440.7       | -73.5        | 443.5                   | 12.11                   | 11.25                  | -5.00                 |  |
| 9,455.0                       | 69.00           | 177.50      | 9,280.9               | -469.3       | -72.1        | 472.0                   | 10.75                   | 10.65                  | 1.61                  |  |
| 9,478.8                       | 70.49           | 179.07      | 9,289.1               | -491.6       | -71.5        | 494.2                   | 8.78                    | 6.24                   | 6.58                  |  |
| LP Forty Niner Ridge B2JO #1H |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,487.0                       | 71.00           | 179.60      | 9,291.8               | -499.4       | -71.4        | 502.0                   | 8.78                    | 6.28                   | 6.50                  |  |
| 9,518.0                       | 71.60           | 179.10      | 9,301.8               | -528.7       | -71.1        | 531.3                   | 2.47                    | 1.94                   | -1.61                 |  |
| 9,549.0                       | 74.00           | 182.50      | 9,310.9               | -558.3       | -71.5        | 560.9                   | 13.03                   | 7.74                   | 10.97                 |  |
| 9,581.0                       | 78.50           | 184.40      | 9,318.5               | -589.3       | -73.3        | 591.9                   | 15.20                   | 14.06                  | 5.94                  |  |
| 9,613.0                       | 83.10           | 182.70      | 9,323.7               | -620.9       | -75.3        | 623.5                   | 15.30                   | 14.38                  | -5.31                 |  |
| 9,640.0                       | 87.10           | 181.50      | 9,326.0               | -647.7       | -76.3        | 650.4                   | 15.46                   | 14.81                  | -4.44                 |  |
| 9,672.0                       | 89.20           | 182.60      | 9,327.0               | -679.7       | -77.4        | 682.4                   | 7.41                    | 6.56                   | 3.44                  |  |
| 9,703.0                       | 89.30           | 182.20      | 9,327.4               | -710.7       | -78.7        | 713.4                   | 1.33                    | 0.32                   | -1.29                 |  |
| 9,734.0                       | 91.00           | 182.50      | 9,327.3               | -741.6       | -80.0        | 744.4                   | 5.57                    | 5.48                   | 0.97                  |  |
| 9,795.0                       | 92.60           | 182.90      | 9,325.4               | -802.5       | -82.9        | 805.3                   | 2.70                    | 2.62                   | 0.66                  |  |
| 9,888.0                       | 90.50           | 181.20      | 9,322.9               | -895.4       | -86.2        | 898.3                   | 2.90                    | -2.26                  | -1.83                 |  |
| 9,982.0                       | 91.20           | 181.10      | 9,321.5               | -989.4       | -88.1        | 992.3                   | 0.75                    | 0.74                   | -0.11                 |  |
| 10,076.0                      | 91.80           | 180.70      | 9,319.0               | -1,083.4     | -89.6        | 1,086.2                 | 0.77                    | 0.64                   | -0.43                 |  |
| 10,171.0                      | 89.30           | 180.80      | 9,318.1               | -1,178.3     | -90.8        | 1,181.1                 | 2.63                    | -2.63                  | 0.11                  |  |
| 10,265.0                      | 90.20           | 179.90      | 9,318.5               | -1,272.3     | -91.4        | 1,275.1                 | 1.35                    | 0.96                   | -0.96                 |  |
| 10,360.0                      | 90.90           | 183.70      | 9,317.6               | -1,367.3     | -94.4        | 1,370.1                 | 4.07                    | 0.74                   | 4.00                  |  |
| 10,454.0                      | 92.20           | 183.50      | 9,315.1               | -1,461.1     | -100.3       | 1,464.0                 | 1.40                    | 1.38                   | -0.21                 |  |
| 10,548.0                      | 89.20           | 182.80      | 9,313.9               | -1,554.9     | -105.4       | 1,558.0                 | 3.28                    | -3.19                  | -0.74                 |  |
| 10,642.0                      | 90.30           | 181.70      | 9,314.3               | -1,648.8     | -109.1       | 1,652.0                 | 1.65                    | 1.17                   | -1.17                 |  |
| 10,737.0                      | 89.00           | 184.90      | 9,314.9               | -1,743.6     | -114.6       | 1,746.9                 | 3.64                    | -1.37                  | 3.37                  |  |



# Stryker Directional Survey Report



|                  |                                                    |                                     |                                               |
|------------------|----------------------------------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Forty Niner Ridge Fed Com 17/20 B2JO #1H |
| <b>Project:</b>  | Eddy County, New Mexico                            | <b>TVD Reference:</b>               | 3217 +20 @ 3237.0usft (Patterson)             |
| <b>Site:</b>     | Section17/20-23S-30E Forty Niner Ridge Fed Com B2J | <b>MD Reference:</b>                | 3217 +20 @ 3237.0usft (Patterson)             |
| <b>Well:</b>     | Forty Niner Ridge Fed Com 17/20 B2JO #1H           | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | 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) |  |
| 10,831.0              | 89.90           | 185.10      | 9,315.8               | -1,837.3     | -122.8       | 1,840.8                 | 0.98                    | 0.96                   | 0.21                  |  |
| 10,925.0              | 90.90           | 185.20      | 9,315.2               | -1,930.9     | -131.2       | 1,934.7                 | 1.07                    | 1.06                   | 0.11                  |  |
| 11,020.0              | 87.90           | 184.30      | 9,316.2               | -2,025.6     | -139.1       | 2,029.6                 | 3.30                    | -3.16                  | -0.95                 |  |
| 11,114.0              | 88.10           | 184.30      | 9,319.4               | -2,119.2     | -146.1       | 2,123.5                 | 0.21                    | 0.21                   | 0.00                  |  |
| 11,209.0              | 88.20           | 181.30      | 9,322.5               | -2,214.1     | -150.8       | 2,218.5                 | 3.16                    | 0.11                   | -3.16                 |  |
| 11,304.0              | 92.20           | 180.50      | 9,322.2               | -2,309.0     | -152.2       | 2,313.4                 | 4.29                    | 4.21                   | -0.84                 |  |
| 11,399.0              | 93.40           | 180.40      | 9,317.5               | -2,403.9     | -153.0       | 2,408.2                 | 1.27                    | 1.26                   | -0.11                 |  |
| 11,494.0              | 90.70           | 180.60      | 9,314.1               | -2,498.8     | -153.8       | 2,503.1                 | 2.85                    | -2.84                  | 0.21                  |  |
| 11,588.0              | 91.50           | 180.30      | 9,312.3               | -2,592.8     | -154.6       | 2,597.0                 | 0.91                    | 0.85                   | -0.32                 |  |
| 11,683.0              | 89.50           | 182.40      | 9,311.5               | -2,687.8     | -156.8       | 2,692.0                 | 3.05                    | -2.11                  | 2.21                  |  |
| 11,776.0              | 88.00           | 182.80      | 9,313.5               | -2,780.7     | -161.0       | 2,785.0                 | 1.67                    | -1.61                  | 0.43                  |  |
| 11,871.0              | 88.60           | 181.60      | 9,316.4               | -2,875.5     | -164.7       | 2,879.9                 | 1.41                    | 0.63                   | -1.26                 |  |
| 11,965.0              | 89.40           | 181.10      | 9,318.0               | -2,969.5     | -166.9       | 2,973.9                 | 1.00                    | 0.85                   | -0.53                 |  |
| 12,060.0              | 90.10           | 180.10      | 9,318.4               | -3,064.5     | -167.9       | 3,068.9                 | 1.28                    | 0.74                   | -1.05                 |  |
| 12,154.0              | 91.60           | 180.10      | 9,317.0               | -3,158.5     | -168.0       | 3,162.8                 | 1.60                    | 1.60                   | 0.00                  |  |
| 12,249.0              | 89.20           | 180.50      | 9,316.3               | -3,253.5     | -168.5       | 3,257.7                 | 2.56                    | -2.53                  | 0.42                  |  |
| 12,344.0              | 91.10           | 181.20      | 9,316.1               | -3,348.5     | -169.9       | 3,352.6                 | 2.13                    | 2.00                   | 0.74                  |  |
| 12,438.0              | 89.10           | 181.10      | 9,315.9               | -3,442.4     | -171.8       | 3,446.6                 | 2.13                    | -2.13                  | -0.11                 |  |
| 12,532.0              | 89.80           | 180.80      | 9,316.8               | -3,536.4     | -173.4       | 3,540.6                 | 0.81                    | 0.74                   | -0.32                 |  |
| 12,626.0              | 91.00           | 180.80      | 9,316.2               | -3,630.4     | -174.7       | 3,634.5                 | 1.28                    | 1.28                   | 0.00                  |  |
| 12,721.0              | 89.80           | 181.80      | 9,315.5               | -3,725.4     | -176.9       | 3,729.5                 | 1.64                    | -1.26                  | 1.05                  |  |
| 12,785.0              | 87.70           | 182.80      | 9,316.9               | -3,789.3     | -179.4       | 3,793.5                 | 3.63                    | -3.28                  | 1.56                  |  |
| 12,815.0              | 87.60           | 182.60      | 9,318.1               | -3,819.2     | -180.8       | 3,823.5                 | 0.74                    | -0.33                  | -0.67                 |  |
| 12,910.0              | 88.90           | 182.70      | 9,321.0               | -3,914.1     | -185.2       | 3,918.4                 | 1.37                    | 1.37                   | 0.11                  |  |
| 13,005.0              | 89.60           | 182.70      | 9,322.3               | -4,009.0     | -189.7       | 4,013.4                 | 0.74                    | 0.74                   | 0.00                  |  |
| 13,099.0              | 89.80           | 182.20      | 9,322.8               | -4,102.9     | -193.7       | 4,107.4                 | 0.57                    | 0.21                   | -0.53                 |  |
| 13,194.0              | 89.80           | 181.90      | 9,323.1               | -4,197.8     | -197.1       | 4,202.4                 | 0.32                    | 0.00                   | -0.32                 |  |
| 13,289.0              | 90.50           | 181.80      | 9,322.9               | -4,292.8     | -200.2       | 4,297.4                 | 0.74                    | 0.74                   | -0.11                 |  |
| 13,384.0              | 90.50           | 181.00      | 9,322.0               | -4,387.7     | -202.5       | 4,392.4                 | 0.84                    | 0.00                   | -0.84                 |  |
| 13,478.0              | 91.00           | 181.20      | 9,320.8               | -4,481.7     | -204.3       | 4,486.4                 | 0.57                    | 0.53                   | 0.21                  |  |
| 13,573.0              | 91.60           | 180.50      | 9,318.6               | -4,576.7     | -205.7       | 4,581.3                 | 0.97                    | 0.63                   | -0.74                 |  |
| 13,667.0              | 91.80           | 179.60      | 9,315.9               | -4,670.6     | -205.8       | 4,675.2                 | 0.98                    | 0.21                   | -0.96                 |  |
| 13,762.0              | 91.90           | 181.40      | 9,312.8               | -4,765.6     | -206.6       | 4,770.1                 | 1.90                    | 0.11                   | 1.89                  |  |
| 13,857.0              | 90.00           | 182.40      | 9,311.2               | -4,860.5     | -209.8       | 4,865.0                 | 2.26                    | -2.00                  | 1.05                  |  |
| 13,952.0              | 87.90           | 183.90      | 9,313.0               | -4,955.3     | -215.0       | 4,960.0                 | 2.72                    | -2.21                  | 1.58                  |  |
| 14,046.0              | 88.00           | 184.40      | 9,316.3               | -5,049.0     | -221.8       | 5,053.9                 | 0.54                    | 0.11                   | 0.53                  |  |
| 14,140.0              | 88.30           | 183.80      | 9,319.4               | -5,142.7     | -228.5       | 5,147.8                 | 0.71                    | 0.32                   | -0.64                 |  |
| 14,235.0              | 88.50           | 182.90      | 9,322.0               | -5,237.5     | -234.1       | 5,242.8                 | 0.97                    | 0.21                   | -0.95                 |  |
| 14,329.0              | 89.50           | 182.30      | 9,323.6               | -5,331.4     | -238.3       | 5,336.7                 | 1.24                    | 1.06                   | -0.64                 |  |
| 14,360.0              | 90.00           | 182.30      | 9,323.8               | -5,362.4     | -239.6       | 5,367.7                 | 1.61                    | 1.61                   | 0.00                  |  |
| 14,423.0              | 90.50           | 182.50      | 9,323.5               | -5,425.4     | -242.2       | 5,430.7                 | 0.85                    | 0.79                   | 0.32                  |  |
| 14,518.0              | 90.90           | 181.60      | 9,322.3               | -5,520.3     | -245.6       | 5,525.7                 | 1.04                    | 0.42                   | -0.95                 |  |





# Stryker Directional Survey Report



|                  |                                                    |                                     |                                               |
|------------------|----------------------------------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Forty Niner Ridge Fed Com 17/20 B2JO #1H |
| <b>Project:</b>  | Eddy County, New Mexico                            | <b>TVD Reference:</b>               | 3217 +20 @ 3237.0usft (Patterson)             |
| <b>Site:</b>     | Section17/20-23S-30E Forty Niner Ridge Fed Com B2J | <b>MD Reference:</b>                | 3217 +20 @ 3237.0usft (Patterson)             |
| <b>Well:</b>     | Forty Niner Ridge Fed Com 17/20 B2JO #1H           | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | 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) |  |
| 14,612.0                                                     | 91.70           | 179.90      | 9,320.2               | -5,614.2     | -246.8       | 5,619.7                 | 2.00                    | 0.85                   | -1.81                 |  |
| 14,707.0                                                     | 91.60           | 181.20      | 9,317.5               | -5,709.2     | -247.7       | 5,714.6                 | 1.37                    | -0.11                  | 1.37                  |  |
| 14,801.0                                                     | 90.40           | 181.10      | 9,315.8               | -5,803.2     | -249.6       | 5,808.5                 | 1.28                    | -1.28                  | -0.11                 |  |
| 14,895.0                                                     | 90.50           | 180.70      | 9,315.1               | -5,897.1     | -251.1       | 5,902.5                 | 0.44                    | 0.11                   | -0.43                 |  |
| 14,989.0                                                     | 90.80           | 180.00      | 9,314.0               | -5,991.1     | -251.7       | 5,996.4                 | 0.81                    | 0.32                   | -0.74                 |  |
| 15,083.0                                                     | 90.20           | 181.50      | 9,313.2               | -6,085.1     | -252.9       | 6,090.4                 | 1.72                    | -0.64                  | 1.60                  |  |
| 15,178.0                                                     | 90.50           | 181.60      | 9,312.6               | -6,180.1     | -255.5       | 6,185.4                 | 0.33                    | 0.32                   | 0.11                  |  |
| 15,273.0                                                     | 89.20           | 182.10      | 9,312.9               | -6,275.0     | -258.5       | 6,280.4                 | 1.47                    | -1.37                  | 0.53                  |  |
| 15,368.0                                                     | 89.70           | 181.70      | 9,313.8               | -6,370.0     | -261.7       | 6,375.3                 | 0.67                    | 0.53                   | -0.42                 |  |
| 15,463.0                                                     | 90.40           | 182.10      | 9,313.7               | -6,464.9     | -264.8       | 6,470.3                 | 0.85                    | 0.74                   | 0.42                  |  |
| 15,557.0                                                     | 89.40           | 182.20      | 9,313.9               | -6,558.9     | -268.4       | 6,564.3                 | 1.07                    | -1.06                  | 0.11                  |  |
| 15,652.0                                                     | 89.60           | 180.20      | 9,314.7               | -6,653.8     | -270.4       | 6,659.3                 | 2.12                    | 0.21                   | -2.11                 |  |
| 15,746.0                                                     | 89.90           | 179.00      | 9,315.1               | -6,747.8     | -269.7       | 6,753.2                 | 1.32                    | 0.32                   | -1.28                 |  |
| 15,840.0                                                     | 89.00           | 179.90      | 9,316.0               | -6,841.8     | -268.8       | 6,847.1                 | 1.35                    | -0.96                  | 0.96                  |  |
| 15,935.0                                                     | 89.50           | 179.70      | 9,317.3               | -6,936.8     | -268.5       | 6,941.9                 | 0.57                    | 0.53                   | -0.21                 |  |
| 16,029.0                                                     | 89.20           | 181.50      | 9,318.3               | -7,030.8     | -269.5       | 7,035.9                 | 1.94                    | -0.32                  | 1.91                  |  |
| 16,124.0                                                     | 89.80           | 181.40      | 9,319.2               | -7,125.8     | -271.9       | 7,130.9                 | 0.64                    | 0.63                   | -0.11                 |  |
| 16,218.0                                                     | 90.20           | 180.90      | 9,319.2               | -7,219.7     | -273.7       | 7,224.8                 | 0.68                    | 0.43                   | -0.53                 |  |
| 16,314.0                                                     | 90.20           | 181.50      | 9,318.8               | -7,315.7     | -275.8       | 7,320.8                 | 0.62                    | 0.00                   | 0.63                  |  |
| 16,408.0                                                     | 90.90           | 181.90      | 9,317.9               | -7,409.7     | -278.5       | 7,414.8                 | 0.86                    | 0.74                   | 0.43                  |  |
| 16,502.0                                                     | 91.20           | 181.50      | 9,316.2               | -7,503.6     | -281.3       | 7,508.8                 | 0.53                    | 0.32                   | -0.43                 |  |
| 16,558.0                                                     | 91.40           | 181.40      | 9,314.9               | -7,559.6     | -282.7       | 7,564.8                 | 0.40                    | 0.36                   | -0.18                 |  |
| 16,605.0                                                     | 91.40           | 181.40      | 9,313.8               | -7,606.6     | -283.9       | 7,611.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16605' MD Projected to Bit - PBHL Forty Niner Ridge B2jo #1H |                 |             |                       |              |              |                         |                         |                        |                       |  |

| Design Annotations    |                       |                   |              |                            |  |
|-----------------------|-----------------------|-------------------|--------------|----------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              |                            |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) | Comment                    |  |
| 8,650.0               | 8,648.5               | -56.6             | -54.6        | 8650' MD Stryker Gyro      |  |
| 16,605.0              | 9,313.8               | -7,606.6          | -283.9       | 16605' MD Projected to Bit |  |