

District I  
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District III  
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District IV  
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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

EMNRD-ARTESIA  
REC'D: 4/20/2020

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☒ AMENDED REPORT

As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

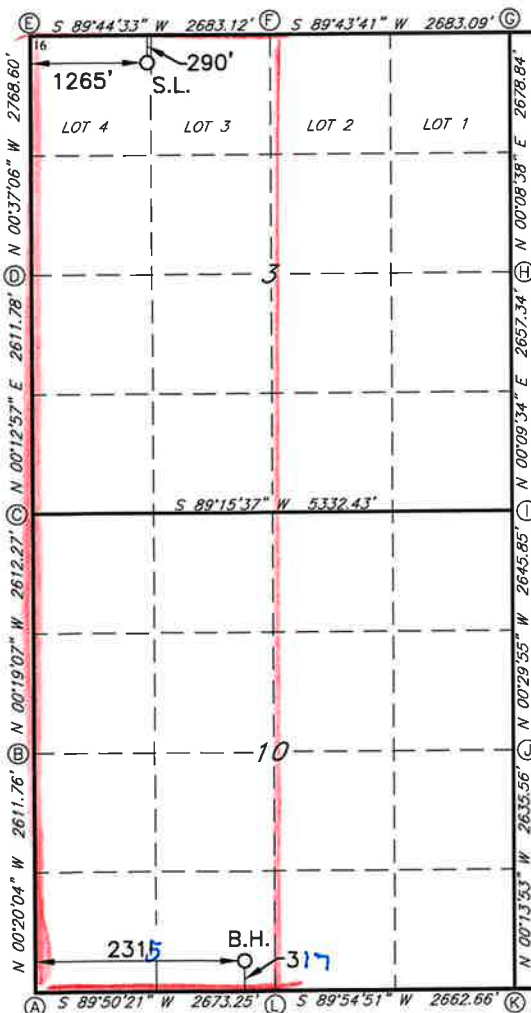
|                                     |  |                                                    |  |                                                   |                             |
|-------------------------------------|--|----------------------------------------------------|--|---------------------------------------------------|-----------------------------|
| 1 API Number<br><b>30-015-46214</b> |  | 2 Pool Code<br><b>98220</b>                        |  | 3 Pool Name<br><b>Purple Sage; Wolfcamp (Gas)</b> |                             |
| 4 Property Code<br><b>326028</b>    |  | 5 Property Name<br><b>YUMA 3/10 WOCN STATE COM</b> |  |                                                   | 6 Well Number<br><b>2H</b>  |
| 7 OGRID NO.<br><b>14744</b>         |  | 8 Operator Name<br><b>MEWBOURNE OIL COMPANY</b>    |  |                                                   | 9 Elevation<br><b>3001'</b> |

| 10 Surface Location |          |            |            |         |               |                  |               |                |             |
|---------------------|----------|------------|------------|---------|---------------|------------------|---------------|----------------|-------------|
| UL or lot no.       | Section  | Township   | Range      | Lot Idn | Feet from the | North/South line | Feet From the | East/West line | County      |
| <b>4</b>            | <b>3</b> | <b>25S</b> | <b>28E</b> |         | <b>290</b>    | <b>NORTH</b>     | <b>1265</b>   | <b>WEST</b>    | <b>EDDY</b> |

| 11 Bottom Hole Location If Different From Surface |           |            |            |         |               |                  |               |                |             |
|---------------------------------------------------|-----------|------------|------------|---------|---------------|------------------|---------------|----------------|-------------|
| UL or lot no.                                     | Section   | Township   | Range      | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
| <b>N</b>                                          | <b>10</b> | <b>25S</b> | <b>28E</b> |         | <b>317</b>    | <b>SOUTH</b>     | <b>2315</b>   | <b>WEST</b>    | <b>EDDY</b> |

|                                     |                    |                       |              |
|-------------------------------------|--------------------|-----------------------|--------------|
| 12 Dedicated Acres<br><b>640.64</b> | 13 Joint or Infill | 14 Consolidation Code | 15 Order No. |
|-------------------------------------|--------------------|-----------------------|--------------|

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



**GEODETIC DATA**  
NAD 83 GRID - NM EAST

**SURFACE LOCATION**  
N: 424113.6 - E: 619812.2  
LAT: 32.1657121° N  
LONG: 104.0797225° W

**BOTTOM HOLE**  
N: 414132.5 - E: 620901.7  
LAT: 32.1382680° N  
LONG: 104.0762787° W

**CORNER DATA**  
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1940"  
N: 413796.1 - E: 618594.1

B: FOUND BRASS CAP "1940"  
N: 416407.2 - E: 618578.9

C: FOUND BRASS CAP "1940"  
N: 419018.9 - E: 618564.4

D: FOUND BRASS CAP "1940"  
N: 421630.1 - E: 618574.2

E: FOUND BRASS CAP "1940"  
N: 424397.9 - E: 618544.3

F: FOUND BRASS CAP "1940"  
N: 424409.9 - E: 621226.8

G: FOUND BRASS CAP "1940"  
N: 424422.7 - E: 623909.3

H: FOUND BRASS CAP "1940"  
N: 421744.4 - E: 623902.6

I: FOUND BRASS CAP "1940"  
N: 419087.7 - E: 623895.2

J: FOUND BRASS CAP "1940"  
N: 416442.5 - E: 623918.2

K: FOUND BRASS CAP "1940"  
N: 413807.6 - E: 623928.9

L: FOUND BRASS CAP "1940"  
N: 413803.6 - E: 621266.8

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Jackie Lathan* Date: **04/13/20**  
Printed Name: **Jackie Lathan**

E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

**07-08-2019**

Date of Survey

Signature and Seal of Professional Surveyor

**19680**

Certificate Number



RRC-Job No: LS19070748

Intent ☐ As Drilled ☒

|                       |  |                                         |  |                                            |  |                    |
|-----------------------|--|-----------------------------------------|--|--------------------------------------------|--|--------------------|
| API #<br>30-015-46214 |  | Operator Name:<br>Mewbourne Oil Company |  | Property Name:<br>Yuma 3/10 W0CN State Com |  | Well Number<br>#2H |
|-----------------------|--|-----------------------------------------|--|--------------------------------------------|--|--------------------|

Kick Off Point (KOP)

|                        |              |                 |              |     |                           |               |              |               |                |
|------------------------|--------------|-----------------|--------------|-----|---------------------------|---------------|--------------|---------------|----------------|
| UL<br>C                | Section<br>3 | Township<br>25S | Range<br>28E | Lot | Feet<br>25                | From N/S<br>N | Feet<br>2298 | From E/W<br>W | County<br>Eddy |
| Latitude<br>32.1604344 |              |                 |              |     | Longitude<br>-104.0763928 |               |              |               | NAD<br>83      |

First Take Point (FTP)

|                        |              |                 |              |     |                           |               |              |               |                |
|------------------------|--------------|-----------------|--------------|-----|---------------------------|---------------|--------------|---------------|----------------|
| UL<br>C                | Section<br>3 | Township<br>25S | Range<br>28E | Lot | Feet<br>409               | From N/S<br>N | Feet<br>2307 | From E/W<br>W | County<br>Eddy |
| Latitude<br>32.1653906 |              |                 |              |     | Longitude<br>-104.0763494 |               |              |               | NAD<br>83      |

Last Take Point (LTP)

|                        |               |                 |              |     |                           |               |              |               |                |
|------------------------|---------------|-----------------|--------------|-----|---------------------------|---------------|--------------|---------------|----------------|
| UL<br>N                | Section<br>10 | Township<br>25S | Range<br>28E | Lot | Feet<br>374               | From N/S<br>S | Feet<br>2315 | From E/W<br>W | County<br>Eddy |
| Latitude<br>32.1384817 |               |                 |              |     | Longitude<br>-104.0762981 |               |              |               | NAD<br>83      |

Is this well the defining well for the Horizontal Spacing Unit?

No

Is this well an infill well?

Yes

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

|                       |  |                                    |  |                                            |  |                    |
|-----------------------|--|------------------------------------|--|--------------------------------------------|--|--------------------|
| API #<br>30-015-46214 |  | Operator Name:<br>Mewbourne Oil Co |  | Property Name:<br>Yuma 3/10 W1DM State Com |  | Well Number<br>#1H |
|-----------------------|--|------------------------------------|--|--------------------------------------------|--|--------------------|

KZ 06/29/2018



COMPANY: Mewbourne Oil Company  
WELL: Yuma 3/10 W0CN State Com #2H  
COUNTY: Eddy County, N.M. Nad (83)  
DATUM: North American Datum 1983  
RIG: Patterson 230



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.79°

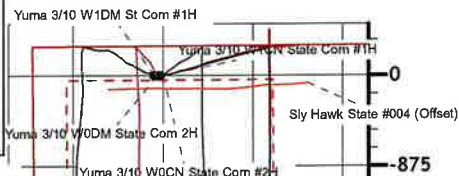
GEODETTIC ZONE: New Mexico Eastern Zone  
3001+28 @ 3029.0usft (Patterson 230)

GROUND ELEVATION: 3001.0

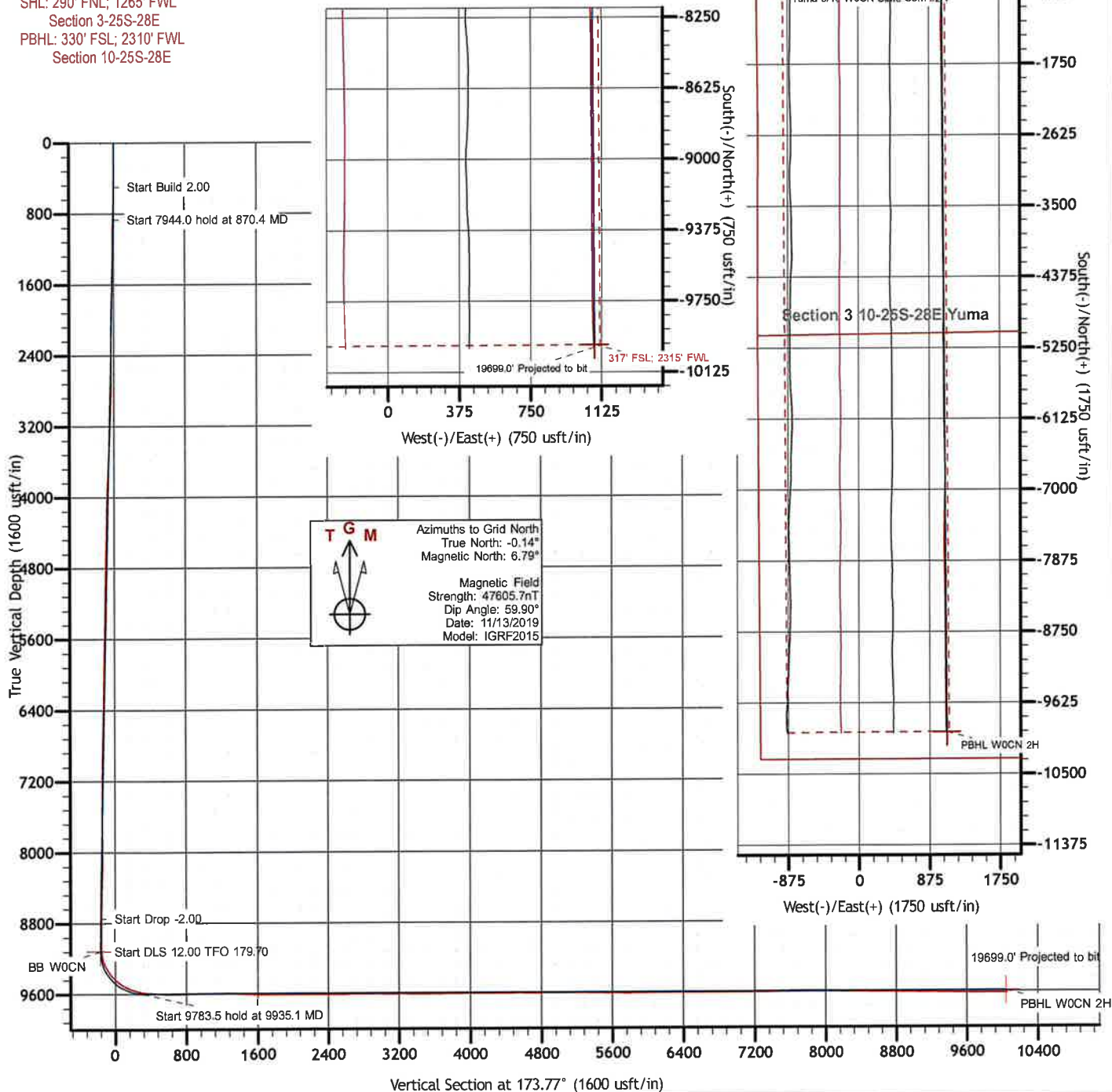
| +N/-S | +E/-W | Northing  | Easting   | Latitude        | Longitude        |
|-------|-------|-----------|-----------|-----------------|------------------|
| 0.0   | 0.0   | 424113.60 | 619812.20 | 32° 9' 56.564 N | 104° 4' 47.001 W |

PLAN SECTIONS

| Sec | MD      | Inc   | Azi    | TVD    | +N/-S  | +E/-W  | Dleg  | TFace  | Vsect   | Target       |
|-----|---------|-------|--------|--------|--------|--------|-------|--------|---------|--------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0    | 0.0    | 0.0    | 0.00  | 0.00   | 0.0     |              |
| 2   | 500.0   | 0.00  | 0.00   | 500.0  | 0.0    | 0.0    | 0.00  | 0.00   | 0.0     |              |
| 3   | 870.4   | 7.41  | 74.86  | 869.4  | 6.2    | 23.1   | 2.00  | 74.86  | -3.7    |              |
| 4   | 8814.4  | 7.41  | 74.86  | 8747.1 | 273.8  | 1011.9 | 0.00  | 0.00   | -162.3  |              |
| 5   | 9184.9  | 0.00  | 0.00   | 9116.5 | 280.0  | 1035.0 | 2.00  | 180.00 | -166.0  | BB W0CN      |
| 6   | 9935.1  | 90.03 | 179.70 | 9594.0 | -197.7 | 1037.5 | 12.00 | 179.70 | 309.1   | PBHL W0CN 2H |
| 7   | 19718.7 | 90.03 | 179.70 | 9589.0 | -998.1 | 1089.5 | 0.00  | 0.00   | 10040.4 |              |



SHL: 290' FNL; 1265' FWL  
Section 3-25S-28E  
PBHL: 330' FSL; 2310' FWL  
Section 10-25S-28E





## **Mewbourne Oil Company**

**Eddy County, N.M. Nad (83)**

**Section 3 10-25S-28E Yuma**

**Yuma 3/10 W0CN State Com #2H**

**Original Hole**

**Design: As Drilled**

## **Standard Survey Report**

**13 January, 2020**





# Stryker Energy Directional Services

## Survey Report



|                  |                               |                                     |                                      |
|------------------|-------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company         | <b>Local Co-ordinate Reference:</b> | Well Yuma 3/10 W0CN State Corn #2H   |
| <b>Project:</b>  | Eddy County, N.M. Nad (83)    | <b>TVD Reference:</b>               | 3001+28 @ 3029.0usft (Patterson 230) |
| <b>Site:</b>     | Section 3 10-25S-28E Yuma     | <b>MD Reference:</b>                | 3001+28 @ 3029.0usft (Patterson 230) |
| <b>Well:</b>     | Yuma 3/10 W0CN State Corn #2H | <b>North Reference:</b>             | Grid                                 |
| <b>Wellbore:</b> | Original Hole                 | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | As Drilled                    | <b>Database:</b>                    | EDM5000                              |

|                    |                            |                      |                |
|--------------------|----------------------------|----------------------|----------------|
| <b>Project</b>     | Eddy County, N.M. Nad (83) |                      |                |
| <b>Map System:</b> | US State Plane 1983        | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983  |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone    |                      |                |

|                              |                           |                     |                 |                                    |
|------------------------------|---------------------------|---------------------|-----------------|------------------------------------|
| <b>Site</b>                  | Section 3 10-25S-28E Yuma |                     |                 |                                    |
| <b>Site Position:</b>        |                           | <b>Northing:</b>    | 424,113.30 usft | <b>Latitude:</b> 32° 9' 56.562 N   |
| <b>From:</b>                 | Map                       | <b>Easting:</b>     | 619,752.30 usft | <b>Longitude:</b> 104° 4' 47.698 W |
| <b>Position Uncertainty:</b> | 0.0 usft                  | <b>Slot Radius:</b> | 13-3/16 "       | <b>Grid Convergence:</b> 0.13 °    |

|                             |                               |          |                            |                  |
|-----------------------------|-------------------------------|----------|----------------------------|------------------|
| <b>Well</b>                 | Yuma 3/10 W0CN State Corn #2H |          |                            |                  |
| <b>Well Position</b>        | <b>+N/-S</b>                  | 0.0 usft | <b>Northing:</b>           | 424,113.60 usft  |
|                             | <b>+E/-W</b>                  | 0.0 usft | <b>Easting:</b>            | 619,812.20 usft  |
| <b>Position Uncertainty</b> | 0.0 usft                      |          | <b>Wellhead Elevation:</b> | 28.0 usft        |
|                             |                               |          | <b>Latitude:</b>           | 32° 9' 56.564 N  |
|                             |                               |          | <b>Longitude:</b>          | 104° 4' 47.001 W |
|                             |                               |          | <b>Ground Level:</b>       | 3,001.0 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          | 11/13/19           | 6.92                   | 59.90                | 47,605.68678548            |

|                          |                                |                     |                     |                          |
|--------------------------|--------------------------------|---------------------|---------------------|--------------------------|
| <b>Design</b>            | As Drilled                     |                     |                     |                          |
| <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                 | 173.81                   |

|                       |                  |                                 |                  |                             |
|-----------------------|------------------|---------------------------------|------------------|-----------------------------|
| <b>Survey Program</b> | Date 01/11/20    |                                 |                  |                             |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b>        | <b>Tool Name</b> | <b>Description</b>          |
| 585.0                 | 19,699.0         | Stryker Surveys (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> |
| <b>Tie in</b> | 421.0                        | 0.70                   | 112.30             | 421.0                        | -0.3                | 0.4                 | 0.3                            | 0.00                           | 0.00                          | 0.00                         |
|               | 585.0                        | 4.70                   | 70.70              | 584.8                        | 1.5                 | 7.7                 | -0.7                           | 2.56                           | 2.44                          | -25.37                       |
|               | 679.0                        | 5.90                   | 71.40              | 678.4                        | 4.4                 | 15.9                | -2.6                           | 1.28                           | 1.28                          | 0.74                         |
|               | 773.0                        | 9.10                   | 68.70              | 771.6                        | 8.6                 | 27.4                | -5.6                           | 3.42                           | 3.40                          | -2.87                        |
|               | 944.0                        | 7.80                   | 80.60              | 940.7                        | 15.4                | 51.4                | -9.8                           | 1.27                           | -0.76                         | 6.96                         |
|               | 1,132.0                      | 7.10                   | 80.70              | 1,127.1                      | 19.4                | 75.5                | -11.1                          | 0.37                           | -0.37                         | 0.05                         |
|               | 1,321.0                      | 7.10                   | 76.80              | 1,314.7                      | 23.9                | 98.4                | -13.2                          | 0.26                           | 0.00                          | -2.06                        |
|               | 1,509.0                      | 7.80                   | 71.20              | 1,501.1                      | 30.7                | 121.8               | -17.4                          | 0.54                           | 0.37                          | -2.98                        |
|               | 1,698.0                      | 7.10                   | 70.80              | 1,688.5                      | 38.7                | 145.0               | -22.8                          | 0.37                           | -0.37                         | -0.21                        |
|               | 1,887.0                      | 8.00                   | 72.40              | 1,875.9                      | 46.5                | 168.5               | -28.0                          | 0.49                           | 0.48                          | 0.85                         |



# Stryker Energy Directional Services

## Survey Report



|           |                              |                              |                                      |
|-----------|------------------------------|------------------------------|--------------------------------------|
| Company:  | Mewbourne Oil Company        | Local Co-ordinate Reference: | Well Yuma 3/10 W0CN State Com #2H    |
| Project:  | Eddy County, N.M. Nad (83)   | TVD Reference:               | 3001+28 @ 3029.0usft (Patterson 230) |
| Site:     | Section 3 10-25S-28E Yuma    | MD Reference:                | 3001+28 @ 3029.0usft (Patterson 230) |
| Well:     | Yuma 3/10 W0CN State Com #2H | North Reference:             | Grid                                 |
| Wellbore: | Original Hole                | Survey Calculation Method:   | Minimum Curvature                    |
| Design:   | As Drilled                   | Database:                    | EDM5000                              |

| 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) |  |
| 2,076.0               | 7.10            | 80.80       | 2,063.2               | 52.3         | 192.6        | -31.2                   | 0.75                    | -0.48                  | 4.44                  |  |
| 2,264.0               | 7.40            | 84.30       | 2,249.7               | 55.4         | 216.1        | -31.7                   | 0.28                    | 0.16                   | 1.86                  |  |
| 2,424.0               | 7.60            | 86.20       | 2,408.4               | 57.1         | 236.9        | -31.2                   | 0.20                    | 0.13                   | 1.19                  |  |
| 2,497.0               | 7.20            | 86.90       | 2,480.8               | 57.7         | 246.3        | -30.8                   | 0.56                    | -0.55                  | 0.96                  |  |
| 2,686.0               | 7.70            | 79.30       | 2,668.2               | 60.7         | 270.6        | -31.1                   | 0.58                    | 0.26                   | -4.02                 |  |
| 2,875.0               | 6.80            | 71.30       | 2,855.7               | 66.6         | 293.6        | -34.5                   | 0.71                    | -0.48                  | -4.23                 |  |
| 3,064.0               | 6.70            | 69.70       | 3,043.3               | 74.0         | 314.5        | -39.7                   | 0.11                    | -0.05                  | -0.85                 |  |
| 3,253.0               | 6.40            | 64.50       | 3,231.1               | 82.4         | 334.4        | -45.8                   | 0.35                    | -0.16                  | -2.75                 |  |
| 3,442.0               | 6.80            | 63.50       | 3,418.9               | 91.9         | 353.9        | -53.2                   | 0.22                    | 0.21                   | -0.53                 |  |
| 3,631.0               | 7.60            | 63.60       | 3,606.4               | 102.5        | 375.1        | -61.4                   | 0.42                    | 0.42                   | 0.05                  |  |
| 3,820.0               | 9.10            | 63.90       | 3,793.4               | 114.6        | 399.7        | -70.8                   | 0.79                    | 0.79                   | 0.16                  |  |
| 3,925.0               | 8.80            | 64.80       | 3,897.1               | 121.7        | 414.5        | -76.2                   | 0.32                    | -0.29                  | 0.86                  |  |
| 3,957.0               | 7.50            | 67.10       | 3,928.8               | 123.5        | 418.6        | -77.6                   | 4.19                    | -4.06                  | 7.19                  |  |
| 3,988.0               | 5.90            | 70.50       | 3,959.5               | 124.8        | 422.0        | -78.6                   | 5.32                    | -5.16                  | 10.97                 |  |
| 4,020.0               | 5.50            | 71.10       | 3,991.4               | 125.9        | 425.0        | -79.3                   | 1.26                    | -1.25                  | 1.88                  |  |
| 4,051.0               | 5.50            | 71.10       | 4,022.2               | 126.8        | 427.8        | -80.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 4,145.0               | 7.70            | 75.50       | 4,115.6               | 129.9        | 438.1        | -81.9                   | 2.40                    | 2.34                   | 4.68                  |  |
| 4,334.0               | 7.70            | 75.50       | 4,302.9               | 136.2        | 462.7        | -85.5                   | 0.00                    | 0.00                   | 0.00                  |  |
| 4,522.0               | 8.10            | 76.10       | 4,489.1               | 142.6        | 487.7        | -89.1                   | 0.22                    | 0.21                   | 0.32                  |  |
| 4,710.0               | 6.50            | 77.10       | 4,675.6               | 148.1        | 510.9        | -92.1                   | 0.85                    | -0.85                  | 0.53                  |  |
| 4,899.0               | 7.00            | 74.00       | 4,863.3               | 153.7        | 532.4        | -95.3                   | 0.33                    | 0.26                   | -1.64                 |  |
| 5,086.0               | 6.80            | 75.30       | 5,048.9               | 159.6        | 554.1        | -98.9                   | 0.14                    | -0.11                  | 0.70                  |  |
| 5,275.0               | 7.80            | 75.10       | 5,236.4               | 165.8        | 577.3        | -102.5                  | 0.53                    | 0.53                   | -0.11                 |  |
| 5,463.0               | 8.00            | 77.00       | 5,422.6               | 172.0        | 602.4        | -106.0                  | 0.17                    | 0.11                   | 1.01                  |  |
| 5,651.0               | 7.90            | 77.00       | 5,608.8               | 177.8        | 627.7        | -109.1                  | 0.05                    | -0.05                  | 0.00                  |  |
| 5,840.0               | 7.30            | 79.40       | 5,796.1               | 183.0        | 652.2        | -111.5                  | 0.36                    | -0.32                  | 1.27                  |  |
| 6,029.0               | 8.00            | 72.20       | 5,983.5               | 189.2        | 676.5        | -115.1                  | 0.63                    | 0.37                   | -3.81                 |  |
| 6,218.0               | 6.90            | 74.20       | 6,170.9               | 196.3        | 700.0        | -119.7                  | 0.60                    | -0.58                  | 1.06                  |  |
| 6,406.0               | 5.80            | 76.60       | 6,357.7               | 201.6        | 720.1        | -122.7                  | 0.60                    | -0.59                  | 1.28                  |  |
| 6,595.0               | 7.80            | 68.70       | 6,545.4               | 208.5        | 741.3        | -127.3                  | 1.17                    | 1.06                   | -4.18                 |  |
| 6,783.0               | 6.40            | 70.90       | 6,731.9               | 216.5        | 763.1        | -132.9                  | 0.76                    | -0.74                  | 1.17                  |  |
| 6,971.0               | 7.60            | 77.10       | 6,918.5               | 222.7        | 785.1        | -136.7                  | 0.75                    | 0.64                   | 3.30                  |  |
| 7,160.0               | 7.20            | 80.30       | 7,106.0               | 227.5        | 809.0        | -138.9                  | 0.30                    | -0.21                  | 1.69                  |  |
| 7,349.0               | 6.20            | 81.30       | 7,293.7               | 231.0        | 830.7        | -140.1                  | 0.53                    | -0.53                  | 0.53                  |  |
| 7,538.0               | 7.50            | 81.00       | 7,481.3               | 234.5        | 853.0        | -141.1                  | 0.69                    | 0.69                   | -0.16                 |  |
| 7,726.0               | 7.10            | 83.60       | 7,667.8               | 237.7        | 876.7        | -141.8                  | 0.28                    | -0.21                  | 1.38                  |  |
| 7,915.0               | 7.30            | 88.70       | 7,855.3               | 239.3        | 900.3        | -140.8                  | 0.35                    | 0.11                   | 2.70                  |  |
| 8,104.0               | 6.30            | 79.50       | 8,043.0               | 241.5        | 922.5        | -140.6                  | 0.78                    | -0.53                  | -4.87                 |  |
| 8,292.0               | 6.10            | 75.00       | 8,229.9               | 245.9        | 942.3        | -142.9                  | 0.28                    | -0.11                  | -2.39                 |  |
| 8,480.0               | 7.40            | 70.70       | 8,416.6               | 252.5        | 963.4        | -147.1                  | 0.74                    | 0.69                   | -2.29                 |  |
| 8,668.0               | 8.80            | 80.90       | 8,602.7               | 258.8        | 989.0        | -150.6                  | 1.06                    | 0.74                   | 5.43                  |  |
| 8,857.0               | 6.30            | 80.70       | 8,790.0               | 262.8        | 1,013.5      | -151.9                  | 1.32                    | -1.32                  | -0.11                 |  |
| 9,045.0               | 2.40            | 79.90       | 8,977.5               | 265.1        | 1,027.6      | -152.7                  | 2.07                    | -2.07                  | -0.43                 |  |
| 9,132.0               | 0.40            | 52.90       | 9,064.4               | 265.6        | 1,029.6      | -153.0                  | 2.36                    | -2.30                  | -31.03                |  |



# Stryker Energy Directional Services

## Survey Report



|           |                              |                              |                                      |
|-----------|------------------------------|------------------------------|--------------------------------------|
| Company:  | Mewbourne Oil Company        | Local Co-ordinate Reference: | Well Yuma 3/10 WOCN State Com #2H    |
| Project:  | Eddy County, N.M. Nad (83)   | TVD Reference:               | 3001+28 @ 3029.0usft (Patterson 230) |
| Site:     | Section 3 10-25S-28E Yuma    | MD Reference:                | 3001+28 @ 3029.0usft (Patterson 230) |
| Well:     | Yuma 3/10 WOCN State Com #2H | North Reference:             | Grid                                 |
| Wellbore: | Original Hole                | Survey Calculation Method:   | Minimum Curvature                    |
| Design:   | As Drilled                   | Database:                    | EDM5000                              |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 9,192.0               | 1.20            | 182.70      | 9,124.4               | 265.1        | 1,029.7      | -152.5                  | 2.48                    | 1.33                   | 216.33                |
| 9,285.0               | 15.90           | 175.80      | 9,216.1               | 251.4        | 1,030.6      | -138.7                  | 15.82                   | 15.81                  | -7.42                 |
| 9,380.0               | 28.40           | 176.50      | 9,304.0               | 215.7        | 1,033.0      | -103.0                  | 13.16                   | 13.16                  | 0.74                  |
| 9,474.0               | 38.00           | 175.40      | 9,382.5               | 164.4        | 1,036.7      | -51.6                   | 10.23                   | 10.21                  | -1.17                 |
| 9,568.0               | 48.80           | 177.60      | 9,450.7               | 100.1        | 1,040.5      | 12.8                    | 11.60                   | 11.49                  | 2.34                  |
| 9,663.0               | 59.40           | 178.70      | 9,506.4               | 23.3         | 1,042.9      | 89.4                    | 11.20                   | 11.16                  | 1.16                  |
| 9,756.0               | 70.10           | 179.80      | 9,546.0               | -60.7        | 1,044.0      | 173.0                   | 11.55                   | 11.51                  | 1.18                  |
| 9,774.0               | 71.60           | 180.10      | 9,551.9               | -77.7        | 1,044.0      | 189.9                   | 8.48                    | 8.33                   | 1.67                  |
| 9,861.0               | 78.80           | 179.80      | 9,574.1               | -161.8       | 1,044.1      | 273.5                   | 8.28                    | 8.28                   | -0.34                 |
| 9,908.0               | 80.60           | 180.40      | 9,582.5               | -208.0       | 1,044.0      | 319.4                   | 4.03                    | 3.83                   | 1.28                  |
| 9,955.0               | 84.40           | 180.70      | 9,588.6               | -254.6       | 1,043.5      | 365.7                   | 8.11                    | 8.09                   | 0.64                  |
| 10,144.0              | 87.90           | 179.10      | 9,601.3               | -443.2       | 1,043.9      | 553.2                   | 2.04                    | 1.85                   | -0.85                 |
| 10,239.0              | 90.60           | 180.00      | 9,602.5               | -538.1       | 1,044.6      | 647.7                   | 3.00                    | 2.84                   | 0.95                  |
| 10,333.0              | 90.50           | 180.00      | 9,601.6               | -632.1       | 1,044.6      | 741.1                   | 0.11                    | -0.11                  | 0.00                  |
| 10,427.0              | 92.40           | 181.30      | 9,599.3               | -726.1       | 1,043.5      | 834.4                   | 2.45                    | 2.02                   | 1.38                  |
| 10,521.0              | 92.40           | 181.30      | 9,595.3               | -820.0       | 1,041.4      | 927.5                   | 0.00                    | 0.00                   | 0.00                  |
| 10,616.0              | 89.50           | 181.40      | 9,593.8               | -914.9       | 1,039.2      | 1,021.7                 | 3.05                    | -3.05                  | 0.11                  |
| 10,711.0              | 90.50           | 183.50      | 9,593.8               | -1,009.8     | 1,035.1      | 1,115.6                 | 2.45                    | 1.05                   | 2.21                  |
| 10,805.0              | 91.00           | 182.80      | 9,592.5               | -1,103.7     | 1,030.0      | 1,208.3                 | 0.92                    | 0.53                   | -0.74                 |
| 10,900.0              | 89.30           | 183.40      | 9,592.3               | -1,198.5     | 1,024.8      | 1,302.1                 | 1.90                    | -1.79                  | 0.63                  |
| 10,994.0              | 84.30           | 176.90      | 9,597.5               | -1,292.3     | 1,024.6      | 1,395.3                 | 8.71                    | -5.32                  | -6.91                 |
| 11,032.0              | 84.40           | 176.80      | 9,601.3               | -1,330.1     | 1,026.6      | 1,433.1                 | 0.37                    | 0.26                   | -0.26                 |
| 11,057.0              | 84.70           | 176.90      | 9,603.6               | -1,354.9     | 1,028.0      | 1,457.9                 | 1.26                    | 1.20                   | 0.40                  |
| 11,088.0              | 87.30           | 178.50      | 9,605.8               | -1,385.8     | 1,029.2      | 1,488.8                 | 9.84                    | 8.39                   | 5.16                  |
| 11,120.0              | 90.00           | 179.30      | 9,606.6               | -1,417.8     | 1,029.9      | 1,520.6                 | 8.80                    | 8.44                   | 2.50                  |
| 11,183.0              | 90.50           | 179.40      | 9,606.3               | -1,480.8     | 1,030.6      | 1,583.3                 | 0.81                    | 0.79                   | 0.16                  |
| 11,277.0              | 87.00           | 178.80      | 9,608.3               | -1,574.8     | 1,032.0      | 1,676.9                 | 3.78                    | -3.72                  | -0.64                 |
| 11,324.0              | 88.20           | 179.30      | 9,610.3               | -1,621.7     | 1,032.8      | 1,723.6                 | 2.77                    | 2.55                   | 1.06                  |
| 11,371.0              | 93.10           | 179.90      | 9,609.8               | -1,668.7     | 1,033.2      | 1,770.4                 | 10.50                   | 10.43                  | 1.28                  |
| 11,417.0              | 90.00           | 179.00      | 9,608.5               | -1,714.7     | 1,033.6      | 1,816.1                 | 7.02                    | -6.74                  | -1.96                 |
| 11,483.0              | 90.10           | 179.70      | 9,608.5               | -1,780.7     | 1,034.3      | 1,881.8                 | 1.07                    | 0.15                   | 1.06                  |
| 11,578.0              | 90.20           | 179.00      | 9,608.2               | -1,875.6     | 1,035.4      | 1,976.4                 | 0.74                    | 0.11                   | -0.74                 |
| 11,672.0              | 90.20           | 178.60      | 9,607.9               | -1,969.6     | 1,037.4      | 2,070.0                 | 0.43                    | 0.00                   | -0.43                 |
| 11,767.0              | 90.50           | 179.60      | 9,607.3               | -2,064.6     | 1,038.9      | 2,164.6                 | 1.10                    | 0.32                   | 1.05                  |
| 11,861.0              | 90.20           | 178.80      | 9,606.7               | -2,158.6     | 1,040.2      | 2,258.2                 | 0.91                    | -0.32                  | -0.85                 |
| 11,956.0              | 89.80           | 179.80      | 9,606.7               | -2,253.6     | 1,041.4      | 2,352.8                 | 1.13                    | -0.42                  | 1.05                  |
| 12,050.0              | 90.20           | 179.00      | 9,606.7               | -2,347.6     | 1,042.3      | 2,446.3                 | 0.95                    | 0.43                   | -0.85                 |
| 12,145.0              | 90.20           | 179.10      | 9,606.4               | -2,442.6     | 1,043.9      | 2,540.9                 | 0.11                    | 0.00                   | 0.11                  |
| 12,239.0              | 90.80           | 180.20      | 9,605.6               | -2,536.6     | 1,044.5      | 2,634.4                 | 1.33                    | 0.64                   | 1.17                  |
| 12,333.0              | 90.20           | 179.70      | 9,604.8               | -2,630.6     | 1,044.6      | 2,727.9                 | 0.83                    | -0.64                  | -0.53                 |
| 12,428.0              | 88.80           | 179.10      | 9,605.6               | -2,725.5     | 1,045.6      | 2,822.4                 | 1.60                    | -1.47                  | -0.63                 |
| 12,522.0              | 90.30           | 179.40      | 9,606.3               | -2,819.5     | 1,046.8      | 2,916.0                 | 1.63                    | 1.60                   | 0.32                  |
| 12,617.0              | 89.70           | 180.00      | 9,606.3               | -2,914.5     | 1,047.3      | 3,010.5                 | 0.89                    | -0.63                  | 0.63                  |



# Stryker Energy Directional Services

## Survey Report



|           |                              |                              |                                      |
|-----------|------------------------------|------------------------------|--------------------------------------|
| Company:  | Mewbourne Oil Company        | Local Co-ordinate Reference: | Well Yuma 3/10 W0CN State Com #2H    |
| Project:  | Eddy County, N.M. Nad (83)   | TVD Reference:               | 3001+28 @ 3029.0usft (Patterson 230) |
| Site:     | Section 3 10-25S-28E Yuma    | MD Reference:                | 3001+28 @ 3029.0usft (Patterson 230) |
| Well:     | Yuma 3/10 W0CN State Com #2H | North Reference:             | Grid                                 |
| Wellbore: | Original Hole                | Survey Calculation Method:   | Minimum Curvature                    |
| Design:   | As Drilled                   | Database:                    | EDM5000                              |

### 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 12,711.0              | 90.10           | 180.00      | 9,606.5               | -3,008.5     | 1,047.3      | 3,103.9                 | 0.43                    | 0.43                   | 0.00                  |
| 12,806.0              | 90.80           | 179.50      | 9,605.8               | -3,103.5     | 1,047.7      | 3,198.4                 | 0.91                    | 0.74                   | -0.53                 |
| 12,900.0              | 89.30           | 180.30      | 9,605.7               | -3,197.5     | 1,047.9      | 3,291.9                 | 1.81                    | -1.60                  | 0.85                  |
| 12,995.0              | 88.60           | 180.60      | 9,607.4               | -3,292.5     | 1,047.1      | 3,386.2                 | 0.80                    | -0.74                  | 0.32                  |
| 13,089.0              | 91.20           | 180.30      | 9,607.6               | -3,386.5     | 1,046.4      | 3,479.6                 | 2.78                    | 2.77                   | -0.32                 |
| 13,183.0              | 90.60           | 179.80      | 9,606.1               | -3,480.5     | 1,046.3      | 3,573.0                 | 0.83                    | -0.64                  | -0.53                 |
| 13,277.0              | 89.60           | 178.30      | 9,605.9               | -3,574.5     | 1,047.9      | 3,666.6                 | 1.92                    | -1.06                  | -1.60                 |
| 13,371.0              | 90.70           | 179.30      | 9,605.7               | -3,668.4     | 1,049.8      | 3,760.3                 | 1.58                    | 1.17                   | 1.06                  |
| 13,466.0              | 91.30           | 179.80      | 9,604.0               | -3,763.4     | 1,050.6      | 3,854.8                 | 0.82                    | 0.63                   | 0.53                  |
| 13,560.0              | 90.80           | 179.50      | 9,602.3               | -3,857.4     | 1,051.2      | 3,948.3                 | 0.62                    | -0.53                  | -0.32                 |
| 13,654.0              | 90.10           | 179.10      | 9,601.6               | -3,951.4     | 1,052.3      | 4,041.8                 | 0.86                    | -0.74                  | -0.43                 |
| 13,748.0              | 90.00           | 179.20      | 9,601.5               | -4,045.4     | 1,053.7      | 4,135.4                 | 0.15                    | -0.11                  | 0.11                  |
| 13,842.0              | 90.00           | 179.80      | 9,601.5               | -4,139.4     | 1,054.5      | 4,229.0                 | 0.64                    | 0.00                   | 0.64                  |
| 13,936.0              | 90.00           | 179.10      | 9,601.5               | -4,233.4     | 1,055.4      | 4,322.5                 | 0.74                    | 0.00                   | -0.74                 |
| 14,030.0              | 90.30           | 178.90      | 9,601.2               | -4,327.4     | 1,057.1      | 4,416.1                 | 0.38                    | 0.32                   | -0.21                 |
| 14,123.0              | 90.50           | 179.10      | 9,600.6               | -4,420.3     | 1,058.7      | 4,508.7                 | 0.30                    | 0.22                   | 0.22                  |
| 14,217.0              | 89.10           | 179.20      | 9,600.9               | -4,514.3     | 1,060.1      | 4,602.3                 | 1.49                    | -1.49                  | 0.11                  |
| 14,311.0              | 89.60           | 181.80      | 9,602.0               | -4,608.3     | 1,059.3      | 4,695.7                 | 2.82                    | 0.53                   | 2.77                  |
| 14,405.0              | 91.40           | 182.10      | 9,601.2               | -4,702.2     | 1,056.1      | 4,788.7                 | 1.94                    | 1.91                   | 0.32                  |
| 14,499.0              | 90.00           | 180.50      | 9,600.0               | -4,796.2     | 1,053.9      | 4,881.9                 | 2.26                    | -1.49                  | -1.70                 |
| 14,594.0              | 90.60           | 180.20      | 9,599.5               | -4,891.2     | 1,053.3      | 4,976.3                 | 0.71                    | 0.63                   | -0.32                 |
| 14,688.0              | 88.90           | 179.10      | 9,599.9               | -4,985.2     | 1,053.9      | 5,069.8                 | 2.15                    | -1.81                  | -1.17                 |
| 14,782.0              | 90.30           | 179.90      | 9,600.6               | -5,079.2     | 1,054.7      | 5,163.3                 | 1.72                    | 1.49                   | 0.85                  |
| 14,877.0              | 91.90           | 179.80      | 9,598.8               | -5,174.2     | 1,055.0      | 5,257.8                 | 1.69                    | 1.68                   | -0.11                 |
| 14,971.0              | 88.40           | 179.30      | 9,598.5               | -5,268.2     | 1,055.7      | 5,351.3                 | 3.76                    | -3.72                  | -0.53                 |
| 15,066.0              | 88.40           | 179.60      | 9,601.2               | -5,363.1     | 1,056.6      | 5,445.8                 | 0.32                    | 0.00                   | 0.32                  |
| 15,160.0              | 88.50           | 179.50      | 9,603.7               | -5,457.1     | 1,057.4      | 5,539.3                 | 0.15                    | 0.11                   | -0.11                 |
| 15,254.0              | 88.70           | 179.50      | 9,606.0               | -5,551.0     | 1,058.2      | 5,632.8                 | 0.21                    | 0.21                   | 0.00                  |
| 15,348.0              | 89.90           | 180.30      | 9,607.2               | -5,645.0     | 1,058.4      | 5,726.3                 | 1.53                    | 1.28                   | 0.85                  |
| 15,442.0              | 90.80           | 180.10      | 9,606.6               | -5,739.0     | 1,058.0      | 5,819.7                 | 0.98                    | 0.96                   | -0.21                 |
| 15,536.0              | 90.80           | 178.70      | 9,605.3               | -5,833.0     | 1,059.0      | 5,913.2                 | 1.49                    | 0.00                   | -1.49                 |
| 15,630.0              | 90.80           | 178.80      | 9,604.0               | -5,927.0     | 1,061.1      | 6,006.9                 | 0.11                    | 0.00                   | 0.11                  |
| 15,724.0              | 90.80           | 179.60      | 9,602.6               | -6,021.0     | 1,062.4      | 6,100.4                 | 0.85                    | 0.00                   | 0.85                  |
| 15,818.0              | 90.50           | 179.50      | 9,601.6               | -6,115.0     | 1,063.1      | 6,193.9                 | 0.34                    | -0.32                  | -0.11                 |
| 15,912.0              | 88.80           | 179.10      | 9,602.2               | -6,208.9     | 1,064.3      | 6,287.5                 | 1.86                    | -1.81                  | -0.43                 |
| 16,006.0              | 91.20           | 178.70      | 9,602.2               | -6,302.9     | 1,066.1      | 6,381.1                 | 2.59                    | 2.55                   | -0.43                 |
| 16,101.0              | 90.50           | 179.00      | 9,600.7               | -6,397.9     | 1,068.0      | 6,475.8                 | 0.80                    | -0.74                  | 0.32                  |
| 16,195.0              | 90.60           | 178.90      | 9,599.8               | -6,491.9     | 1,069.7      | 6,569.4                 | 0.15                    | 0.11                   | -0.11                 |
| 16,290.0              | 90.60           | 179.20      | 9,598.8               | -6,586.8     | 1,071.3      | 6,664.0                 | 0.32                    | 0.00                   | 0.32                  |
| 16,384.0              | 88.80           | 179.10      | 9,599.3               | -6,680.8     | 1,072.7      | 6,757.6                 | 1.92                    | -1.91                  | -0.11                 |
| 16,479.0              | 89.90           | 179.10      | 9,600.4               | -6,775.8     | 1,074.2      | 6,852.1                 | 1.16                    | 1.16                   | 0.00                  |
| 16,573.0              | 89.60           | 181.30      | 9,600.8               | -6,869.8     | 1,073.8      | 6,945.6                 | 2.36                    | -0.32                  | 2.34                  |
| 16,667.0              | 88.30           | 181.60      | 9,602.5               | -6,963.8     | 1,071.5      | 7,038.7                 | 1.42                    | -1.38                  | 0.32                  |



# Stryker Energy Directional Services

## Survey Report



|                  |                              |                                     |                                      |
|------------------|------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company        | <b>Local Co-ordinate Reference:</b> | Well Yuma 3/10 W0CN State Com #2H    |
| <b>Project:</b>  | Eddy County, N.M. Nad (83)   | <b>TVD Reference:</b>               | 3001+28 @ 3029.0usft (Patterson 230) |
| <b>Site:</b>     | Section 3 10-25S-28E Yuma    | <b>MD Reference:</b>                | 3001+28 @ 3029.0usft (Patterson 230) |
| <b>Well:</b>     | Yuma 3/10 W0CN State Com #2H | <b>North Reference:</b>             | Grid                                 |
| <b>Wellbore:</b> | Original Hole                | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | As Drilled                   | <b>Database:</b>                    | EDM5000                              |

### 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) |
|---------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 16,763.0                  | 90.50           | 181.80      | 9,603.6               | -7,059.7     | 1,068.6      | 7,133.8                 | 2.30                    | 2.29                   | 0.21                  |
| 16,855.0                  | 90.40           | 180.90      | 9,602.8               | -7,151.7     | 1,066.4      | 7,225.0                 | 0.98                    | -0.11                  | -0.98                 |
| 16,947.0                  | 90.80           | 181.40      | 9,601.9               | -7,243.6     | 1,064.6      | 7,316.2                 | 0.70                    | 0.43                   | 0.54                  |
| 17,040.0                  | 93.70           | 182.20      | 9,598.2               | -7,336.5     | 1,061.7      | 7,408.2                 | 3.23                    | 3.12                   | 0.86                  |
| 17,132.0                  | 92.70           | 181.40      | 9,593.1               | -7,428.3     | 1,058.8      | 7,499.2                 | 1.39                    | -1.09                  | -0.87                 |
| 17,224.0                  | 91.10           | 178.80      | 9,590.0               | -7,520.3     | 1,058.6      | 7,590.6                 | 3.32                    | -1.74                  | -2.83                 |
| 17,316.0                  | 90.10           | 179.40      | 9,589.1               | -7,612.3     | 1,060.1      | 7,682.2                 | 1.27                    | -1.09                  | 0.65                  |
| 17,409.0                  | 90.10           | 178.90      | 9,588.9               | -7,705.2     | 1,061.5      | 7,774.8                 | 0.54                    | 0.00                   | -0.54                 |
| 17,501.0                  | 90.50           | 179.10      | 9,588.4               | -7,797.2     | 1,063.1      | 7,866.4                 | 0.49                    | 0.43                   | 0.22                  |
| 17,593.0                  | 89.50           | 178.80      | 9,588.4               | -7,889.2     | 1,064.7      | 7,958.0                 | 1.13                    | -1.09                  | -0.33                 |
| 17,685.0                  | 89.20           | 179.10      | 9,589.5               | -7,981.2     | 1,066.4      | 8,049.7                 | 0.46                    | -0.33                  | 0.33                  |
| 17,778.0                  | 88.70           | 179.40      | 9,591.2               | -8,074.2     | 1,067.7      | 8,142.2                 | 0.63                    | -0.54                  | 0.32                  |
| 17,870.0                  | 88.60           | 179.10      | 9,593.3               | -8,166.1     | 1,068.9      | 8,233.8                 | 0.34                    | -0.11                  | -0.33                 |
| 17,962.0                  | 89.30           | 179.00      | 9,595.0               | -8,258.1     | 1,070.4      | 8,325.4                 | 0.77                    | 0.76                   | -0.11                 |
| 18,054.0                  | 87.50           | 179.20      | 9,597.6               | -8,350.0     | 1,071.8      | 8,416.9                 | 1.97                    | -1.96                  | 0.22                  |
| 18,147.0                  | 89.00           | 179.90      | 9,600.4               | -8,443.0     | 1,072.6      | 8,509.4                 | 1.78                    | 1.61                   | 0.75                  |
| 18,239.0                  | 88.20           | 179.90      | 9,602.7               | -8,535.0     | 1,072.7      | 8,600.9                 | 0.87                    | -0.87                  | 0.00                  |
| 18,331.0                  | 90.70           | 179.80      | 9,603.6               | -8,627.0     | 1,073.0      | 8,692.4                 | 2.72                    | 2.72                   | -0.11                 |
| 18,423.0                  | 90.80           | 179.80      | 9,602.4               | -8,719.0     | 1,073.3      | 8,783.9                 | 0.11                    | 0.11                   | 0.00                  |
| 18,516.0                  | 89.10           | 178.90      | 9,602.4               | -8,811.9     | 1,074.3      | 8,876.4                 | 2.07                    | -1.83                  | -0.97                 |
| 18,608.0                  | 88.60           | 179.50      | 9,604.3               | -8,903.9     | 1,075.6      | 8,968.0                 | 0.85                    | -0.54                  | 0.65                  |
| 18,700.0                  | 90.10           | 180.10      | 9,605.3               | -8,995.9     | 1,075.9      | 9,059.5                 | 1.76                    | 1.63                   | 0.65                  |
| 18,793.0                  | 88.90           | 179.80      | 9,606.1               | -9,088.9     | 1,076.0      | 9,151.9                 | 1.33                    | -1.29                  | -0.32                 |
| 18,885.0                  | 89.90           | 180.50      | 9,607.1               | -9,180.9     | 1,075.8      | 9,243.4                 | 1.33                    | 1.09                   | 0.76                  |
| 18,977.0                  | 89.10           | 179.80      | 9,607.9               | -9,272.9     | 1,075.5      | 9,334.8                 | 1.16                    | -0.87                  | -0.76                 |
| 19,069.0                  | 88.00           | 179.20      | 9,610.2               | -9,364.9     | 1,076.3      | 9,426.3                 | 1.36                    | -1.20                  | -0.65                 |
| 19,162.0                  | 88.10           | 179.60      | 9,613.4               | -9,457.8     | 1,077.3      | 9,518.8                 | 0.44                    | 0.11                   | 0.43                  |
| 19,254.0                  | 89.10           | 180.00      | 9,615.7               | -9,549.8     | 1,077.6      | 9,610.3                 | 1.17                    | 1.09                   | 0.43                  |
| 19,346.0                  | 89.80           | 179.70      | 9,616.5               | -9,641.8     | 1,077.9      | 9,701.8                 | 0.83                    | 0.76                   | -0.33                 |
| 19,439.0                  | 90.10           | 179.10      | 9,616.6               | -9,734.8     | 1,078.8      | 9,794.3                 | 0.72                    | 0.32                   | -0.65                 |
| 19,531.0                  | 89.80           | 178.50      | 9,616.7               | -9,826.7     | 1,080.8      | 9,886.0                 | 0.73                    | -0.33                  | -0.65                 |
| 19,623.0                  | 89.10           | 178.70      | 9,617.6               | -9,918.7     | 1,083.0      | 9,977.6                 | 0.79                    | -0.76                  | 0.22                  |
| 19,656.0                  | 89.80           | 179.00      | 9,617.9               | -9,951.7     | 1,083.7      | 10,010.5                | 2.31                    | 2.12                   | 0.91                  |
| 19,699.0                  | 89.80           | 179.00      | 9,618.0               | -9,994.7     | 1,084.4      | 10,053.3                | 0.00                    | 0.00                   | 0.00                  |
| 19699.0' Projected to bit |                 |             |                       |              |              |                         |                         |                        |                       |

### Design Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                   |
|-----------------------|-----------------------|-------------------|--------------|---------------------------|
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                           |
| 19,699.0              | 9,618.0               | -9,994.7          | 1,084.4      | 19699.0' Projected to bit |



**Stryker Energy Directional Services**  
Survey Report



|                  |                              |                                     |                                      |
|------------------|------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company        | <b>Local Co-ordinate Reference:</b> | Well Yuma 3/10 W0CN State Com #2H    |
| <b>Project:</b>  | Eddy County, N.M. Nad (83)   | <b>TVD Reference:</b>               | 3001+28 @ 3029.0usft (Patterson 230) |
| <b>Site:</b>     | Section 3 10-25S-28E Yuma    | <b>MD Reference:</b>                | 3001+28 @ 3029.0usft (Patterson 230) |
| <b>Well:</b>     | Yuma 3/10 W0CN State Com #2H | <b>North Reference:</b>             | Grid                                 |
| <b>Wellbore:</b> | Original Hole                | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | As Drilled                   | <b>Database:</b>                    | EDM5000                              |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



February 18, 2020

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

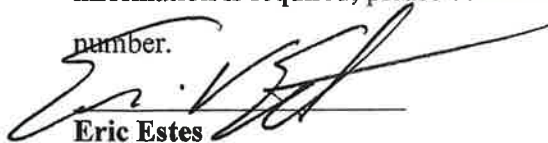
Attn: Jackie Lathan

Re: Mewbourne Oil Company  
Yuma 3 10 W0CN State Com #002H  
Purple Sage; Wolfcamp (Gas)  
Eddy County, New Mexico  
API# 30-015-46214

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

| <u>Name &amp; Title</u> | <u>Drainhole No.</u> | <u>Survey Depths</u> | <u>Dates Performed</u> | <u>Type Survey</u> |
|-------------------------|----------------------|----------------------|------------------------|--------------------|
| Keith Broussard         | Original Hole        | 585ft. to 19,656ft.  | 12-19-19 to 01-10-20   | MWD Survey         |

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

  
Eric Estes

Enclosures

CC:

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

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

NMEMaNRD\Mewbourne Oil Company\Yuma 3 10 W0CN State Com #2H\191218

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



**February 18, 2020**

**Survey Certification Report**

**STATE OF            TEXAS**

**COUNTY OF        Montgomery**

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of December 19, 2019, through January 10, 2020 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 585feet to a depth of 19,656feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Yuma 3 10 W0CN State Com #2H, well API # **30-015-46214** in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

A handwritten signature in black ink, appearing to read "Eric Estes", is written over a horizontal line.

**Eric Estes**

**STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.**

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



# Stryker Energy Directional Services

## Survey Report Landscape



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, N.M. Nad (83)  
**Site:** Section 3 10-25S-28E Yuma  
**Well:** Yuma 3/10 W0CN State Com #2H  
**Wellbore:** Original Hole  
**Design:** As Drilled

**Local Co-ordinate Reference:**  
**TVD Reference:** 3001+28 @ 3029.0usft (Patterson 230)  
**MD Reference:** 3001+28 @ 3029.0usft (Patterson 230)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM5000

**Project** Eddy County, N.M. Nad (83)

**Map System:** US State Plane 1983  
**Geo Datum:** North American Datum 1983  
**Map Zone:** New Mexico Eastern Zone

**System Datum:** Mean Sea Level

**Site** Section 3 10-25S-28E Yuma

**Site Position:** Northing: 424,113.30 usft Latitude: 32° 9' 56.562 N  
**From:** Easting: 619,752.30 usft Longitude: 104° 4' 47.698 W  
**Position Uncertainty:** Map Slot Radius: 13-3/16 " Grid Convergence: 0.13 °

**Well** Yuma 3/10 W0CN State Com #2H

**Well Position** +N/-S 0.0 usft Latitude: 32° 9' 56.564 N  
**Well Position** +E/-W 0.0 usft Longitude: 104° 4' 47.001 W  
**Position Uncertainty** 0.0 usft Wellhead Elevation: 28.0 usft Ground Level: 3,001.0 usft

**Wellbore** Original Hole

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
|           | IGRF2015   | 11/13/19    | 6.92            | 59.90         | 47,605.68678548     |

**Design** As Drilled

**Audit Notes:**

| Version:                 | 1.0                            | Phase:              | ACTUAL              | Tie On Depth:        | 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                 | 173.81               |     |

**Survey Program** Date 01/11/20

| From (usft) | To (usft) | Survey (Wellbore)               | Tool Name | Description                 |
|-------------|-----------|---------------------------------|-----------|-----------------------------|
| 585.0       | 19,699.0  | Stryker Surveys (Original Hole) | MWD       | MWD v3:standard declination |



# Stryker Energy Directional Services

## Survey Report Landscape



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, N.M. Nad (83)  
**Site:** Section 3 10-25S-28E Yuma  
**Well:** Yuma 3/10 WOCN State Com #2H  
**Wellbore:** Original Hole  
**Design:** As Drilled

**Local Co-ordinate Reference:**  
**TVD Reference:** 3001+28 @ 3029.0usft (Patterson 230)  
**MD Reference:** 3001+28 @ 3029.0usft (Patterson 230)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM5000

Well Yuma 3/10 WOCN State Com #2H  
3001+28 @ 3029.0usft (Patterson 230)  
3001+28 @ 3029.0usft (Patterson 230)  
Grid  
Minimum Curvature  
EDM5000

### Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | EW<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | D Leg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|--------------|----------------------------|------------------------|----------------------|--------------------|-------------------|
| Tie In       | 421.0      | 0.70                 | 112.30        | 421.0         | -0.3         | 0.4                        | 0.5                    | 126.87               | 424,113.30         | 619,812.60        |
|              | 585.0      | 4.70                 | 70.70         | 584.8         | 1.5          | 7.7                        | 7.8                    | 78.64                | 424,115.14         | 619,819.87        |
|              | 679.0      | 5.90                 | 71.40         | 678.4         | 4.4          | 15.9                       | 16.5                   | 74.67                | 424,117.96         | 619,828.09        |
|              | 773.0      | 9.10                 | 68.70         | 771.6         | 8.6          | 27.4                       | 28.7                   | 72.57                | 424,122.20         | 619,839.59        |
|              | 944.0      | 7.80                 | 80.60         | 940.7         | 15.4         | 51.4                       | 53.7                   | 73.33                | 424,129.01         | 619,863.64        |
|              | 1,132.0    | 7.10                 | 80.70         | 1,127.1       | 19.4         | 75.5                       | 77.9                   | 75.61                | 424,132.97         | 619,887.69        |
|              | 1,321.0    | 7.10                 | 76.80         | 1,314.7       | 23.9         | 98.4                       | 101.3                  | 76.34                | 424,137.52         | 619,910.59        |
|              | 1,509.0    | 7.80                 | 71.20         | 1,501.1       | 30.7         | 121.8                      | 125.6                  | 75.86                | 424,144.29         | 619,933.98        |
|              | 1,698.0    | 7.10                 | 70.80         | 1,688.5       | 38.7         | 145.0                      | 150.0                  | 75.07                | 424,152.26         | 619,957.15        |
|              | 1,887.0    | 8.00                 | 72.40         | 1,875.9       | 46.5         | 168.5                      | 174.8                  | 74.58                | 424,160.08         | 619,980.72        |
|              | 2,076.0    | 7.10                 | 80.80         | 2,063.2       | 52.3         | 192.6                      | 199.6                  | 74.80                | 424,165.92         | 620,004.79        |
|              | 2,264.0    | 7.40                 | 84.30         | 2,249.7       | 55.4         | 216.1                      | 223.1                  | 75.63                | 424,168.98         | 620,028.31        |
|              | 2,424.0    | 7.60                 | 86.20         | 2,408.4       | 57.1         | 236.9                      | 243.7                  | 76.45                | 424,170.71         | 620,049.12        |
|              | 2,497.0    | 7.20                 | 86.90         | 2,480.8       | 57.7         | 246.3                      | 253.0                  | 76.82                | 424,171.28         | 620,058.50        |
|              | 2,686.0    | 7.70                 | 79.30         | 2,668.2       | 60.7         | 270.6                      | 277.3                  | 77.36                | 424,174.27         | 620,082.77        |
|              | 2,875.0    | 6.80                 | 71.30         | 2,855.7       | 66.6         | 293.6                      | 301.1                  | 77.22                | 424,180.21         | 620,105.81        |
|              | 3,064.0    | 6.70                 | 69.70         | 3,043.3       | 74.0         | 314.5                      | 323.1                  | 76.76                | 424,187.62         | 620,126.75        |
|              | 3,253.0    | 6.40                 | 64.50         | 3,231.1       | 82.4         | 334.4                      | 344.4                  | 76.16                | 424,195.98         | 620,146.60        |
|              | 3,442.0    | 6.80                 | 63.50         | 3,418.9       | 91.9         | 353.9                      | 365.7                  | 75.44                | 424,205.51         | 620,166.12        |
|              | 3,631.0    | 7.60                 | 63.60         | 3,606.4       | 102.5        | 375.1                      | 388.9                  | 74.72                | 424,216.06         | 620,187.33        |
|              | 3,820.0    | 9.10                 | 63.90         | 3,793.4       | 114.6        | 399.7                      | 415.8                  | 74.00                | 424,228.19         | 620,211.95        |
|              | 3,925.0    | 8.80                 | 64.80         | 3,897.1       | 121.7        | 414.5                      | 432.0                  | 73.64                | 424,235.26         | 620,226.67        |
|              | 3,957.0    | 7.50                 | 67.10         | 3,928.8       | 123.5        | 418.6                      | 436.5                  | 73.56                | 424,237.12         | 620,230.81        |
|              | 3,988.0    | 5.90                 | 70.50         | 3,959.5       | 124.8        | 422.0                      | 440.1                  | 73.52                | 424,238.44         | 620,234.17        |
|              | 4,020.0    | 5.50                 | 71.10         | 3,991.4       | 125.9        | 425.0                      | 443.2                  | 73.50                | 424,239.48         | 620,237.18        |
|              | 4,051.0    | 5.50                 | 71.10         | 4,022.2       | 126.8        | 427.8                      | 446.2                  | 73.48                | 424,240.44         | 620,239.99        |
|              | 4,145.0    | 7.70                 | 75.50         | 4,115.6       | 129.9        | 438.1                      | 457.0                  | 73.49                | 424,243.48         | 620,250.35        |



# Stryker Energy Directional Services

## Survey Report Landscape



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, N.M. Nad (83)  
**Site:** Section 3 10-25S-28E Yuma  
**Well:** Yuma 3/10 W0CN State Com #2H  
**Wellbore:** Original Hole  
**Design:** As Drilled

**Local Co-ordinate Reference:**  
3001+28 @ 3029.0usft (Patterson 230)  
3001+28 @ 3029.0usft (Patterson 230)  
**MD Reference:**  
Grid  
**North Reference:**  
Minimum Curvature  
**Survey Calculation Method:**  
EDM5000

### Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Azimuth<br>(°) | D Leg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|---------------|----------------------------|----------------|----------------------|--------------------|-------------------|
| 4,334.0      | 7.70       | 75.50                | 4,302.9       | 136.2         | 462.7         | 482.3                      | 73.59          | 0.00                 | 424,249.82         | 620,274.86        |
| 4,522.0      | 8.10       | 76.10                | 4,489.1       | 142.6         | 487.7         | 508.1                      | 73.71          | 0.22                 | 424,256.16         | 620,299.91        |
| 4,710.0      | 6.50       | 77.10                | 4,675.6       | 148.1         | 510.9         | 532.0                      | 73.83          | 0.85                 | 424,261.71         | 620,323.14        |
| 4,899.0      | 7.00       | 74.00                | 4,863.3       | 153.7         | 532.4         | 554.2                      | 73.90          | 0.33                 | 424,267.28         | 620,344.64        |
| 5,086.0      | 6.80       | 75.30                | 5,048.9       | 159.6         | 554.1         | 576.6                      | 73.93          | 0.14                 | 424,273.23         | 620,366.30        |
| 5,275.0      | 7.80       | 75.10                | 5,236.4       | 165.8         | 577.3         | 600.6                      | 73.98          | 0.53                 | 424,279.36         | 620,389.52        |
| 5,463.0      | 8.00       | 77.00                | 5,422.6       | 172.0         | 602.4         | 626.5                      | 74.07          | 0.17                 | 424,285.59         | 620,414.60        |
| 5,651.0      | 7.90       | 77.00                | 5,608.8       | 177.8         | 627.7         | 652.4                      | 74.18          | 0.05                 | 424,291.44         | 620,439.93        |
| 5,840.0      | 7.30       | 79.40                | 5,796.1       | 183.0         | 652.2         | 677.4                      | 74.33          | 0.36                 | 424,296.57         | 620,464.39        |
| 6,029.0      | 8.00       | 72.20                | 5,983.5       | 189.2         | 676.5         | 702.5                      | 74.38          | 0.63                 | 424,302.80         | 620,488.72        |
| 6,218.0      | 6.90       | 74.20                | 6,170.9       | 196.3         | 700.0         | 727.0                      | 74.33          | 0.60                 | 424,309.91         | 620,512.16        |
| 6,406.0      | 5.80       | 76.60                | 6,357.7       | 201.6         | 720.1         | 747.8                      | 74.36          | 0.60                 | 424,315.18         | 620,532.27        |
| 6,595.0      | 7.80       | 68.70                | 6,545.4       | 208.5         | 741.3         | 770.1                      | 74.29          | 1.17                 | 424,322.06         | 620,553.51        |
| 6,783.0      | 6.40       | 70.90                | 6,731.9       | 216.5         | 763.1         | 793.2                      | 74.16          | 0.76                 | 424,330.12         | 620,575.30        |
| 6,971.0      | 7.60       | 77.10                | 6,918.5       | 222.7         | 785.1         | 816.1                      | 74.16          | 0.75                 | 424,336.32         | 620,597.32        |
| 7,160.0      | 7.20       | 80.30                | 7,106.0       | 227.5         | 809.0         | 840.4                      | 74.29          | 0.30                 | 424,341.11         | 620,621.18        |
| 7,349.0      | 6.20       | 81.30                | 7,293.7       | 231.0         | 830.7         | 862.3                      | 74.46          | 0.53                 | 424,344.65         | 620,642.94        |
| 7,538.0      | 7.50       | 81.00                | 7,481.3       | 234.5         | 853.0         | 884.7                      | 74.63          | 0.69                 | 424,348.12         | 620,665.22        |
| 7,726.0      | 7.10       | 83.60                | 7,667.8       | 237.7         | 876.7         | 908.3                      | 74.83          | 0.28                 | 424,351.34         | 620,688.88        |
| 7,915.0      | 7.30       | 88.70                | 7,855.3       | 239.3         | 900.3         | 931.6                      | 75.11          | 0.35                 | 424,352.91         | 620,712.49        |
| 8,104.0      | 6.30       | 79.50                | 8,043.0       | 241.5         | 922.5         | 953.6                      | 75.33          | 0.78                 | 424,355.07         | 620,734.70        |
| 8,292.0      | 6.10       | 75.00                | 8,229.9       | 245.9         | 942.3         | 973.9                      | 75.37          | 0.28                 | 424,359.54         | 620,754.49        |
| 8,480.0      | 7.40       | 70.70                | 8,416.6       | 252.5         | 963.4         | 995.9                      | 75.31          | 0.74                 | 424,366.13         | 620,775.56        |
| 8,668.0      | 8.80       | 80.90                | 8,602.7       | 258.8         | 989.0         | 1,022.3                    | 75.34          | 1.06                 | 424,372.40         | 620,801.19        |
| 8,857.0      | 6.30       | 80.70                | 8,790.0       | 262.8         | 1,013.5       | 1,047.0                    | 75.47          | 1.32                 | 424,376.37         | 620,825.70        |
| 9,045.0      | 2.40       | 79.90                | 8,977.5       | 265.1         | 1,027.6       | 1,061.2                    | 75.53          | 2.07                 | 424,378.72         | 620,839.76        |
| 9,132.0      | 0.40       | 52.90                | 9,064.4       | 265.6         | 1,029.6       | 1,063.3                    | 75.53          | 2.36                 | 424,379.23         | 620,841.80        |



# Stryker Energy Directional Services

## Survey Report Landscape



**Company:** Newbourne Oil Company  
**Project:** Eddy County, N.M. Nad (83)  
**Site:** Section 3 10-25S-28E Yuma  
**Well:** Yuma 3/10 WOCN State Com #2H  
**Wellbore:** Original Hole  
**Design:** As Drilled

**Local Co-ordinate Reference:** Well Yuma 3/10 WOCN State Com #2H  
**TVD Reference:** 3001+28 @ 3029.0usft (Patterson 230)  
**MD Reference:** 3001+28 @ 3029.0usft (Patterson 230)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM5000

### Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | EW<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|--------------|----------------------------|------------------------|---------------------|--------------------|-------------------|
| 9,192.0      | 1.20       | 182.70               | 9,124.4       | 265.1         | 1,029.7      | 1,063.3                    | 75.56                  | 2.48                | 424,378.73         | 620,841.94        |
| 9,285.0      | 15.90      | 175.80               | 9,216.1       | 251.4         | 1,030.6      | 1,060.8                    | 76.29                  | 15.82               | 424,364.97         | 620,842.83        |
| 9,380.0      | 28.40      | 176.50               | 9,304.0       | 215.7         | 1,033.0      | 1,055.3                    | 78.21                  | 13.16               | 424,329.30         | 620,845.17        |
| 9,474.0      | 38.00      | 175.40               | 9,382.5       | 164.4         | 1,036.7      | 1,049.6                    | 80.99                  | 10.23               | 424,278.03         | 620,848.86        |
| 9,568.0      | 48.80      | 177.60               | 9,450.7       | 100.1         | 1,040.5      | 1,045.3                    | 84.51                  | 11.60               | 424,213.66         | 620,852.68        |
| 9,663.0      | 59.40      | 178.70               | 9,506.4       | 23.3          | 1,042.9      | 1,043.2                    | 88.72                  | 11.20               | 424,136.85         | 620,855.11        |
| 9,756.0      | 70.10      | 179.80               | 9,546.0       | -60.7         | 1,044.0      | 1,045.7                    | 93.33                  | 11.55               | 424,052.87         | 620,856.17        |
| 9,774.0      | 71.60      | 180.10               | 9,551.9       | -77.7         | 1,044.0      | 1,046.9                    | 94.26                  | 8.48                | 424,035.87         | 620,856.19        |
| 9,861.0      | 78.80      | 179.80               | 9,574.1       | -161.8        | 1,044.1      | 1,056.5                    | 98.81                  | 8.28                | 423,951.81         | 620,856.26        |
| 9,908.0      | 80.60      | 180.40               | 9,582.5       | -208.0        | 1,044.0      | 1,064.5                    | 101.27                 | 4.03                | 423,905.57         | 620,856.18        |
| 9,955.0      | 84.40      | 180.70               | 9,588.6       | -254.6        | 1,043.5      | 1,074.1                    | 103.71                 | 8.11                | 423,858.98         | 620,855.74        |
| 10,144.0     | 87.90      | 179.10               | 9,601.3       | -443.2        | 1,043.9      | 1,134.0                    | 113.00                 | 2.04                | 423,670.44         | 620,856.07        |
| 10,239.0     | 90.60      | 180.00               | 9,602.6       | -538.1        | 1,044.6      | 1,175.1                    | 117.26                 | 3.00                | 423,575.46         | 620,856.82        |
| 10,333.0     | 90.50      | 180.00               | 9,601.6       | -632.1        | 1,044.6      | 1,221.0                    | 121.18                 | 0.11                | 423,481.47         | 620,856.82        |
| 10,427.0     | 92.40      | 181.30               | 9,599.3       | -726.1        | 1,043.5      | 1,271.3                    | 124.83                 | 2.45                | 423,387.51         | 620,855.75        |
| 10,521.0     | 92.40      | 181.30               | 9,595.3       | -820.0        | 1,041.4      | 1,325.5                    | 128.22                 | 0.00                | 423,293.62         | 620,853.62        |
| 10,616.0     | 89.50      | 181.40               | 9,593.8       | -914.9        | 1,039.2      | 1,384.6                    | 131.36                 | 3.05                | 423,198.67         | 620,851.38        |
| 10,711.0     | 90.50      | 183.50               | 9,593.8       | -1,009.8      | 1,035.1      | 1,446.1                    | 134.29                 | 2.45                | 423,103.76         | 620,847.32        |
| 10,805.0     | 91.00      | 182.80               | 9,592.5       | -1,103.7      | 1,030.0      | 1,509.6                    | 136.98                 | 0.92                | 423,009.91         | 620,842.16        |
| 10,900.0     | 89.30      | 183.40               | 9,592.3       | -1,198.5      | 1,024.8      | 1,576.9                    | 139.47                 | 1.90                | 422,915.05         | 620,837.02        |
| 10,994.0     | 84.30      | 176.90               | 9,597.5       | -1,292.3      | 1,024.6      | 1,649.2                    | 141.59                 | 8.71                | 422,821.28         | 620,836.76        |
| 11,032.0     | 84.40      | 176.80               | 9,601.3       | -1,330.1      | 1,026.6      | 1,680.2                    | 142.34                 | 0.37                | 422,783.52         | 620,838.84        |
| 11,057.0     | 84.70      | 176.90               | 9,603.6       | -1,354.9      | 1,028.0      | 1,700.8                    | 142.81                 | 1.26                | 422,758.67         | 620,840.21        |
| 11,088.0     | 87.30      | 178.50               | 9,605.8       | -1,385.8      | 1,029.2      | 1,726.2                    | 143.40                 | 9.84                | 422,727.78         | 620,841.45        |
| 11,120.0     | 90.00      | 179.30               | 9,606.6       | -1,417.8      | 1,029.9      | 1,752.4                    | 144.01                 | 8.80                | 422,695.80         | 620,842.06        |
| 11,183.0     | 90.50      | 179.40               | 9,606.3       | -1,480.8      | 1,030.6      | 1,804.1                    | 145.16                 | 0.81                | 422,632.80         | 620,842.77        |
| 11,277.0     | 87.00      | 178.80               | 9,608.3       | -1,574.8      | 1,032.0      | 1,882.8                    | 146.76                 | 3.78                | 422,538.85         | 620,844.25        |



# Stryker Energy Directional Services

## Survey Report Landscape



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, N.M. Nad (83)  
**Site:** Section 3 10-25S-28E Yuma  
**Well:** Yuma 3/10 WOCN State Com #2H  
**Wellbore:** Original Hole  
**Design:** As Drilled

**Local Co-ordinate Reference:**  
**TVD Reference:** 3001+28 @ 3029.0usft (Patterson 230)  
**MD Reference:** 3001+28 @ 3029.0usft (Patterson 230)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM5000

Well Yuma 3/10 WOCN State Com #2H  
3001+28 @ 3029.0usft (Patterson 230)  
3001+28 @ 3029.0usft (Patterson 230)  
Grid  
Minimum Curvature  
EDM5000

### Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | D/Leg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|----------------------|--------------------|-------------------|
| 11,324.0     | 88.20      | 179.30               | 9,610.3       | -1,621.7      | 1,032.8       | 1,922.7                    | 147.51                 | 2.77                 | 422,491.90         | 620,845.03        |
| 11,371.0     | 93.10      | 179.90               | 9,609.8       | -1,668.7      | 1,033.2       | 1,962.6                    | 148.24                 | 10.50                | 422,444.92         | 620,845.36        |
| 11,417.0     | 90.00      | 179.00               | 9,608.5       | -1,714.7      | 1,033.6       | 2,002.1                    | 148.92                 | 7.02                 | 422,398.94         | 620,845.80        |
| 11,483.0     | 90.10      | 179.70               | 9,608.5       | -1,780.7      | 1,034.3       | 2,059.3                    | 149.85                 | 1.07                 | 422,332.95         | 620,846.55        |
| 11,578.0     | 90.20      | 179.00               | 9,608.2       | -1,875.6      | 1,035.4       | 2,142.5                    | 151.10                 | 0.74                 | 422,237.95         | 620,847.62        |
| 11,672.0     | 90.20      | 178.60               | 9,607.9       | -1,969.6      | 1,037.4       | 2,226.1                    | 152.22                 | 0.43                 | 422,143.98         | 620,849.59        |
| 11,767.0     | 90.50      | 179.60               | 9,607.3       | -2,064.6      | 1,038.9       | 2,311.3                    | 153.29                 | 1.10                 | 422,048.99         | 620,851.09        |
| 11,861.0     | 90.20      | 178.80               | 9,606.7       | -2,158.6      | 1,040.2       | 2,396.2                    | 154.27                 | 0.91                 | 421,955.00         | 620,852.40        |
| 11,956.0     | 89.80      | 179.80               | 9,606.7       | -2,253.6      | 1,041.4       | 2,482.6                    | 155.20                 | 1.13                 | 421,860.01         | 620,853.56        |
| 12,050.0     | 90.20      | 179.00               | 9,606.7       | -2,347.6      | 1,042.3       | 2,568.6                    | 156.06                 | 0.95                 | 421,766.02         | 620,854.54        |
| 12,145.0     | 90.20      | 179.10               | 9,606.4       | -2,442.6      | 1,043.9       | 2,656.3                    | 156.86                 | 0.11                 | 421,671.03         | 620,856.12        |
| 12,239.0     | 90.80      | 180.20               | 9,605.6       | -2,536.6      | 1,044.5       | 2,743.2                    | 157.62                 | 1.33                 | 421,577.04         | 620,856.69        |
| 12,333.0     | 90.20      | 179.70               | 9,604.8       | -2,630.6      | 1,044.6       | 2,830.4                    | 158.34                 | 0.83                 | 421,483.04         | 620,856.77        |
| 12,428.0     | 88.80      | 179.10               | 9,605.6       | -2,725.5      | 1,045.6       | 2,919.2                    | 159.01                 | 1.60                 | 421,388.05         | 620,857.77        |
| 12,522.0     | 90.30      | 179.40               | 9,606.3       | -2,819.5      | 1,046.8       | 3,007.6                    | 159.63                 | 1.63                 | 421,294.07         | 620,859.00        |
| 12,617.0     | 89.70      | 180.00               | 9,606.3       | -2,914.5      | 1,047.3       | 3,097.0                    | 160.23                 | 0.89                 | 421,199.07         | 620,859.50        |
| 12,711.0     | 90.10      | 180.00               | 9,606.5       | -3,008.5      | 1,047.3       | 3,185.6                    | 160.81                 | 0.43                 | 421,105.07         | 620,859.50        |
| 12,806.0     | 90.80      | 179.50               | 9,605.8       | -3,103.5      | 1,047.7       | 3,275.6                    | 161.35                 | 0.91                 | 421,010.07         | 620,859.91        |
| 12,900.0     | 89.30      | 180.30               | 9,605.7       | -3,197.5      | 1,047.9       | 3,364.8                    | 161.86                 | 1.81                 | 420,916.08         | 620,860.07        |
| 12,995.0     | 88.60      | 180.60               | 9,607.4       | -3,292.5      | 1,047.1       | 3,455.0                    | 162.36                 | 0.80                 | 420,821.10         | 620,859.33        |
| 13,089.0     | 91.20      | 180.30               | 9,607.6       | -3,386.5      | 1,046.4       | 3,544.5                    | 162.83                 | 2.78                 | 420,727.11         | 620,858.59        |
| 13,183.0     | 90.60      | 179.80               | 9,606.1       | -3,480.5      | 1,046.3       | 3,634.3                    | 163.27                 | 0.83                 | 420,633.12         | 620,858.51        |
| 13,277.0     | 89.60      | 178.30               | 9,605.9       | -3,574.5      | 1,047.9       | 3,724.9                    | 163.66                 | 1.92                 | 420,539.14         | 620,860.07        |
| 13,371.0     | 90.70      | 179.30               | 9,605.7       | -3,668.4      | 1,049.8       | 3,815.7                    | 164.03                 | 1.58                 | 420,445.16         | 620,862.04        |
| 13,466.0     | 91.30      | 179.80               | 9,604.0       | -3,763.4      | 1,050.6       | 3,907.3                    | 164.40                 | 0.82                 | 420,350.18         | 620,862.78        |
| 13,560.0     | 90.80      | 179.50               | 9,602.3       | -3,857.4      | 1,051.2       | 3,998.1                    | 164.76                 | 0.62                 | 420,256.20         | 620,863.36        |
| 13,654.0     | 90.10      | 179.10               | 9,601.6       | -3,951.4      | 1,052.3       | 4,089.1                    | 165.09                 | 0.86                 | 420,162.21         | 620,864.50        |



# Stryker Energy Directional Services

## Survey Report Landscape



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, N.M. Nad (83)  
**Site:** Section 3 10-25S-28E Yuma  
**Well:** Yuma 3/10 WOCN State Com #2H  
**Wellbore:** Original Hole  
**Design:** As Drilled

**Local Co-ordinate Reference:**  
**TVD Reference:** 3001+28 @ 3029.0usft (Patterson 230)  
**MD Reference:** 3001+28 @ 3029.0usft (Patterson 230)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM5000

### Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closeure Azimuth<br>(°) | D Leg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|---------------|----------------------------|-------------------------|----------------------|--------------------|-------------------|
| 13,748.0     | 90.00      | 179.20               | 9,601.5       | -4,045.4      | 1,053.7       | 4,180.4                    | 165.40                  | 0.15                 | 420,068.22         | 620,865.90        |
| 13,842.0     | 90.00      | 179.80               | 9,601.5       | -4,139.4      | 1,054.5       | 4,271.6                    | 165.71                  | 0.64                 | 419,974.22         | 620,866.72        |
| 13,936.0     | 90.00      | 179.10               | 9,601.5       | -4,233.4      | 1,055.4       | 4,363.0                    | 166.00                  | 0.74                 | 419,880.23         | 620,867.62        |
| 14,030.0     | 90.30      | 178.90               | 9,601.2       | -4,327.4      | 1,057.1       | 4,454.6                    | 166.27                  | 0.38                 | 419,786.24         | 620,869.26        |
| 14,123.0     | 90.50      | 179.10               | 9,600.6       | -4,420.3      | 1,058.7       | 4,545.4                    | 166.53                  | 0.30                 | 419,693.26         | 620,870.89        |
| 14,217.0     | 89.10      | 179.20               | 9,600.9       | -4,514.3      | 1,060.1       | 4,637.1                    | 166.78                  | 1.49                 | 419,599.27         | 620,872.28        |
| 14,311.0     | 89.60      | 181.80               | 9,602.0       | -4,608.3      | 1,059.3       | 4,728.5                    | 167.05                  | 2.82                 | 419,505.29         | 620,871.46        |
| 14,405.0     | 91.40      | 182.10               | 9,601.2       | -4,702.2      | 1,056.1       | 4,819.4                    | 167.34                  | 1.94                 | 419,411.35         | 620,868.26        |
| 14,499.0     | 90.00      | 180.50               | 9,600.0       | -4,796.2      | 1,053.9       | 4,910.6                    | 167.61                  | 2.26                 | 419,317.39         | 620,866.13        |
| 14,594.0     | 90.60      | 180.20               | 9,599.5       | -4,891.2      | 1,053.3       | 5,003.3                    | 167.85                  | 0.71                 | 419,222.39         | 620,865.55        |
| 14,688.0     | 88.90      | 179.10               | 9,599.9       | -4,985.2      | 1,053.9       | 5,095.4                    | 168.06                  | 2.15                 | 419,128.40         | 620,866.12        |
| 14,782.0     | 90.30      | 179.90               | 9,600.6       | -5,079.2      | 1,054.7       | 5,187.5                    | 168.27                  | 1.72                 | 419,034.41         | 620,866.94        |
| 14,877.0     | 91.90      | 179.80               | 9,598.8       | -5,174.2      | 1,055.0       | 5,280.6                    | 168.48                  | 1.69                 | 418,939.43         | 620,867.19        |
| 14,971.0     | 88.40      | 179.30               | 9,598.5       | -5,268.2      | 1,055.7       | 5,372.9                    | 168.67                  | 3.76                 | 418,845.45         | 620,867.93        |
| 15,066.0     | 88.40      | 179.60               | 9,601.2       | -5,363.1      | 1,056.6       | 5,466.2                    | 168.85                  | 0.32                 | 418,750.49         | 620,868.84        |
| 15,160.0     | 88.50      | 179.50               | 9,603.7       | -5,457.1      | 1,057.4       | 5,558.6                    | 169.03                  | 0.15                 | 418,656.53         | 620,869.58        |
| 15,254.0     | 88.70      | 179.50               | 9,606.0       | -5,551.0      | 1,058.2       | 5,651.0                    | 169.21                  | 0.21                 | 418,562.56         | 620,870.40        |
| 15,348.0     | 89.90      | 180.30               | 9,607.2       | -5,645.0      | 1,058.4       | 5,743.4                    | 169.38                  | 1.53                 | 418,468.57         | 620,870.56        |
| 15,442.0     | 90.80      | 180.10               | 9,606.6       | -5,739.0      | 1,058.0       | 5,835.7                    | 169.55                  | 0.98                 | 418,374.57         | 620,870.24        |
| 15,536.0     | 90.80      | 178.70               | 9,605.3       | -5,833.0      | 1,059.0       | 5,928.4                    | 169.71                  | 1.49                 | 418,280.59         | 620,871.22        |
| 15,630.0     | 90.80      | 178.80               | 9,604.0       | -5,927.0      | 1,061.1       | 6,021.2                    | 169.85                  | 0.11                 | 418,186.62         | 620,873.27        |
| 15,724.0     | 90.80      | 179.60               | 9,602.6       | -6,021.0      | 1,062.4       | 6,114.0                    | 169.99                  | 0.85                 | 418,092.64         | 620,874.58        |
| 15,818.0     | 90.50      | 179.50               | 9,601.6       | -6,115.0      | 1,063.1       | 6,206.7                    | 170.14                  | 0.34                 | 417,998.65         | 620,875.32        |
| 15,912.0     | 88.80      | 179.10               | 9,602.2       | -6,208.9      | 1,064.3       | 6,299.5                    | 170.27                  | 1.86                 | 417,904.66         | 620,876.47        |
| 16,006.0     | 91.20      | 178.70               | 9,602.2       | -6,302.9      | 1,066.1       | 6,392.4                    | 170.40                  | 2.59                 | 417,810.68         | 620,878.27        |
| 16,101.0     | 90.50      | 179.00               | 9,600.7       | -6,397.9      | 1,068.0       | 6,486.4                    | 170.52                  | 0.80                 | 417,715.71         | 620,880.18        |
| 16,195.0     | 90.60      | 178.90               | 9,599.8       | -6,491.9      | 1,069.7       | 6,579.4                    | 170.64                  | 0.15                 | 417,621.74         | 620,881.90        |



# Stryker Energy Directional Services

## Survey Report Landscape



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, N.M. Nad (83)  
**Site:** Section 3 10-25S-28E Yuma  
**Well:** Yuma 3/10 WOCN State Com #2H  
**Wellbore:** Original Hole  
**Design:** As Drilled

**Local Co-ordinate Reference:** Well Yuma 3/10 WOCN State Com #2H  
**TVD Reference:** 3001+28 @ 3029.0usft (Patterson 230)  
**MD Reference:** 3001+28 @ 3029.0usft (Patterson 230)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM5000

### Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Distance<br>(usft) | Azimuth<br>(°) | D Leg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|---------------|----------------------------|--------------------|----------------|----------------------|--------------------|-------------------|
| 16,290.0     | 90.60      | 179.20               | 9,598.8       | -6,586.8      | 1,071.3       | 6,673.4                    | 170.76             | 0.32           | 417,526.75           | 620,883.48         |                   |
| 16,384.0     | 88.80      | 179.10               | 9,599.3       | -6,680.8      | 1,072.7       | 6,766.4                    | 170.88             | 1.92           | 417,432.77           | 620,884.87         |                   |
| 16,479.0     | 89.90      | 179.10               | 9,600.4       | -6,775.8      | 1,074.2       | 6,860.4                    | 170.99             | 1.16           | 417,337.79           | 620,886.36         |                   |
| 16,573.0     | 89.60      | 181.30               | 9,600.8       | -6,869.8      | 1,073.8       | 6,953.2                    | 171.12             | 2.36           | 417,243.80           | 620,886.04         |                   |
| 16,667.0     | 88.30      | 181.60               | 9,602.5       | -6,963.8      | 1,071.5       | 7,045.7                    | 171.25             | 1.42           | 417,149.84           | 620,883.66         |                   |
| 16,763.0     | 90.50      | 181.80               | 9,603.6       | -7,059.7      | 1,068.6       | 7,140.1                    | 171.39             | 2.30           | 417,053.90           | 620,880.81         |                   |
| 16,855.0     | 90.40      | 180.90               | 9,602.8       | -7,151.7      | 1,066.4       | 7,230.7                    | 171.52             | 0.98           | 416,961.93           | 620,878.64         |                   |
| 16,947.0     | 90.80      | 181.40               | 9,601.9       | -7,243.6      | 1,064.6       | 7,321.5                    | 171.64             | 0.70           | 416,869.95           | 620,876.80         |                   |
| 17,040.0     | 93.70      | 182.20               | 9,598.2       | -7,336.5      | 1,061.7       | 7,412.9                    | 171.77             | 3.23           | 416,777.08           | 620,873.88         |                   |
| 17,132.0     | 92.70      | 181.40               | 9,593.1       | -7,428.3      | 1,058.8       | 7,503.4                    | 171.89             | 1.39           | 416,685.27           | 620,870.99         |                   |
| 17,224.0     | 91.10      | 178.80               | 9,590.0       | -7,520.3      | 1,058.6       | 7,594.4                    | 171.99             | 3.32           | 416,593.33           | 620,870.83         |                   |
| 17,316.0     | 90.10      | 179.40               | 9,589.1       | -7,612.3      | 1,060.1       | 7,685.7                    | 172.07             | 1.27           | 416,501.35           | 620,872.28         |                   |
| 17,409.0     | 90.10      | 178.90               | 9,588.9       | -7,705.2      | 1,061.5       | 7,778.0                    | 172.16             | 0.54           | 416,408.36           | 620,873.66         |                   |
| 17,501.0     | 90.50      | 179.10               | 9,588.4       | -7,797.2      | 1,063.1       | 7,869.4                    | 172.24             | 0.49           | 416,316.38           | 620,875.26         |                   |
| 17,593.0     | 89.50      | 178.80               | 9,588.4       | -7,889.2      | 1,064.7       | 7,960.7                    | 172.31             | 1.13           | 416,224.39           | 620,876.95         |                   |
| 17,685.0     | 89.20      | 179.10               | 9,589.5       | -7,981.2      | 1,066.4       | 8,052.1                    | 172.39             | 0.46           | 416,132.41           | 620,878.64         |                   |
| 17,778.0     | 88.70      | 179.40               | 9,591.2       | -8,074.2      | 1,067.7       | 8,144.4                    | 172.47             | 0.63           | 416,039.44           | 620,879.85         |                   |
| 17,870.0     | 88.60      | 179.10               | 9,593.3       | -8,166.1      | 1,068.9       | 8,235.8                    | 172.54             | 0.34           | 415,947.47           | 620,881.06         |                   |
| 17,962.0     | 89.30      | 179.00               | 9,595.0       | -8,258.1      | 1,070.4       | 8,327.2                    | 172.61             | 0.77           | 415,855.50           | 620,882.58         |                   |
| 18,054.0     | 87.50      | 179.20               | 9,597.6       | -8,350.0      | 1,071.8       | 8,418.6                    | 172.69             | 1.97           | 415,763.55           | 620,884.03         |                   |
| 18,147.0     | 89.00      | 179.90               | 9,600.4       | -8,443.0      | 1,072.6       | 8,510.9                    | 172.76             | 1.78           | 415,670.60           | 620,884.76         |                   |
| 18,239.0     | 88.20      | 179.90               | 9,602.7       | -8,535.0      | 1,072.7       | 8,602.1                    | 172.84             | 0.87           | 415,578.63           | 620,884.92         |                   |
| 18,331.0     | 90.70      | 179.80               | 9,603.6       | -8,627.0      | 1,073.0       | 8,693.4                    | 172.91             | 2.72           | 415,486.64           | 620,885.16         |                   |
| 18,423.0     | 90.80      | 179.80               | 9,602.4       | -8,719.0      | 1,073.3       | 8,784.8                    | 172.98             | 0.11           | 415,394.65           | 620,885.48         |                   |
| 18,516.0     | 89.10      | 178.90               | 9,602.4       | -8,811.9      | 1,074.3       | 8,877.2                    | 173.05             | 2.07           | 415,301.66           | 620,886.53         |                   |
| 18,608.0     | 88.60      | 179.50               | 9,604.3       | -8,903.9      | 1,075.6       | 8,968.6                    | 173.11             | 0.85           | 415,209.69           | 620,887.82         |                   |
| 18,700.0     | 90.10      | 180.10               | 9,605.3       | -8,995.9      | 1,075.9       | 9,060.0                    | 173.18             | 1.76           | 415,117.70           | 620,888.14         |                   |



# Stryker Energy Directional Services

## Survey Report Landscape



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, N.M. Nad (83)  
**Site:** Section 3 10-25S-28E Yuma  
**Well:** Yuma 3/10 WOCN State Com #2H  
**Wellbore:** Original Hole  
**Design:** As Drilled

**Local Co-ordinate Reference:** Well Yuma 3/10 WOCN State Com #2H  
**TVD Reference:** 3001+28 @ 3029.0usft (Patterson 230)  
**MD Reference:** 3001+28 @ 3029.0usft (Patterson 230)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM5000

### Survey

| MD<br>(usft)              | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | D Leg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|---------------------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|----------------------|--------------------|-------------------|
| 18,793.0                  | 88.90      | 179.80               | 9,606.1       | -9,088.9      | 1,076.0       | 9,152.4                    | 173.25                 | 1.33                 | 415,024.70         | 620,888.22        |
| 18,885.0                  | 89.90      | 180.50               | 9,607.1       | -9,180.9      | 1,075.8       | 9,243.7                    | 173.32                 | 1.33                 | 414,932.71         | 620,887.98        |
| 18,977.0                  | 89.10      | 179.80               | 9,607.9       | -9,272.9      | 1,075.5       | 9,335.1                    | 173.38                 | 1.16                 | 414,840.71         | 620,887.74        |
| 19,069.0                  | 88.00      | 179.20               | 9,610.2       | -9,364.9      | 1,076.3       | 9,426.5                    | 173.44                 | 1.36                 | 414,748.75         | 620,888.54        |
| 19,162.0                  | 88.10      | 179.60               | 9,613.4       | -9,457.8      | 1,077.3       | 9,519.0                    | 173.50                 | 0.44                 | 414,655.81         | 620,889.51        |
| 19,254.0                  | 89.10      | 180.00               | 9,615.7       | -9,549.8      | 1,077.6       | 9,610.4                    | 173.56                 | 1.17                 | 414,563.84         | 620,889.83        |
| 19,346.0                  | 89.80      | 179.70               | 9,616.5       | -9,641.8      | 1,077.9       | 9,701.8                    | 173.62                 | 0.83                 | 414,471.84         | 620,890.08        |
| 19,439.0                  | 90.10      | 179.10               | 9,616.6       | -9,734.8      | 1,078.8       | 9,794.4                    | 173.68                 | 0.72                 | 414,378.85         | 620,891.05        |
| 19,531.0                  | 89.80      | 178.50               | 9,616.7       | -9,826.7      | 1,080.8       | 9,886.0                    | 173.72                 | 0.73                 | 414,286.87         | 620,892.98        |
| 19,623.0                  | 89.10      | 178.70               | 9,617.6       | -9,918.7      | 1,083.0       | 9,977.7                    | 173.77                 | 0.79                 | 414,194.90         | 620,895.22        |
| 19,656.0                  | 89.80      | 179.00               | 9,617.9       | -9,951.7      | 1,083.7       | 10,010.5                   | 173.79                 | 2.31                 | 414,161.91         | 620,895.89        |
| 19,699.0                  | 89.80      | 179.00               | 9,618.0       | -9,994.7      | 1,084.4       | 10,053.3                   | 173.81                 | 0.00                 | 414,118.92         | 620,896.64        |
| 19699.0' Projected to bit |            |                      |               |               |               |                            |                        |                      |                    |                   |

### Design Annotations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates<br>+N/-S<br>(usft) | +E/-W<br>(usft) | Comment                   |
|-----------------------------|-----------------------------|--------------------------------------|-----------------|---------------------------|
| 19,699.0                    | 9,618.0                     | -9,994.7                             | 1,084.4         | 19699.0' Projected to bit |

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_