

Submit 1 Copy To Appropriate District Office  
 District I – (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88240  
 District II – (575) 748-1283  
 811 S. First St., Artesia, NM 88210  
 District III – (505) 334-6178  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV – (505) 476-3460  
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-103  
 Revised August 1, 2011

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| WELL API NO.<br>30-025-47483                                                                        |
| 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No.                                                                        |
| 7. Lease Name or Unit Agreement Name<br>Hereford 29/20 B3MD State Com                               |
| 8. Well Number 1H                                                                                   |
| 9. OGRID Number 14744                                                                               |
| 10. Pool name or Wildcat:<br>Scharb Bone Spring – 55610                                             |

|                                                                                                                                                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| SUNDRY NOTICES AND REPORTS ON WELLS<br>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)             |  |
| 1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>                                                                                     |  |
| 2. Name of Operator<br>Mewbourne Oil Company                                                                                                                                                                       |  |
| 3. Address of Operator<br>PO Box 5270, Hobbs, NM 88240                                                                                                                                                             |  |
| 4. Well Location<br>Unit Letter <u>M</u> <u>205</u> feet from the <u>South</u> line and <u>990</u> feet from the <u>West</u> line<br>Section <u>29</u> Township <u>19S</u> Range <u>35E</u> NMPM County <u>Lea</u> |  |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>3741' GL                                                                                                                                                     |  |

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☒  
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
 DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
 COMMENCE DRILLING OPNS. ☐ P AND A ☐  
 CASING/CEMENT JOB ☐

OTHER: ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Mewbourne Oil Company would like to change the producing zone & name of the well listed above. Please call Bradley Bishop with any questions.

- Well name: Hereford 29/20 W1MD State Com #1H
- Zone – Wolfcamp A – Scharb; Wolfcamp, Southeast (55650)

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Bradley Bishop TITLE Hobbs Regulatory DATE 3-15-2021

Type or print name Bradley Bishop E-mail address: bishop@mewbourne.com PHONE: 575-393-5905

**For State Use Only**

APPROVED BY: P. Kautz TITLE \_\_\_\_\_ DATE 03/19/2020  
 Conditions of Approval (if any): \_\_\_\_\_

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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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                               |                                                                    |                                                              |
|-----------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------|
| <sup>1</sup> API Number<br><b>30-25-47483</b> | <sup>2</sup> Pool Code<br><b>55650</b>                             | <sup>3</sup> Pool Name<br><b>SCHARB; WOLFCAMP, SOUTHEAST</b> |
| <sup>4</sup> Property Code<br><b>330290</b>   | <sup>5</sup> Property Name<br><b>HEREFORD 29/20 WIMD STATE COM</b> | <sup>6</sup> Well Number<br><b>1H</b>                        |
| <sup>7</sup> OGRID NO.<br><b>14744</b>        | <sup>8</sup> Operator Name<br><b>MEWBOURNE OIL COMPANY</b>         | <sup>9</sup> Elevation<br><b>3744'</b>                       |

<sup>10</sup> 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>M</b>      | <b>29</b> | <b>19S</b> | <b>35E</b> |         | <b>205</b>    | <b>SOUTH</b>     | <b>990</b>    | <b>WEST</b>    | <b>LEA</b> |

<sup>11</sup> 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>D</b>                                    | <b>20</b>                     | <b>19S</b>                       | <b>35E</b>              |         | <b>100</b>    | <b>NORTH</b>     | <b>440</b>    | <b>WEST</b>    | <b>LEA</b> |
| <sup>12</sup> Dedicated Acres<br><b>320</b> | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> 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.

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>GEODETIC DATA</b><br/>NAD 83 GRID - NM EAST</p> <p><b>SURFACE LOCATION</b><br/>N 592048.4 - E 802551.6<br/>LAT: 32.6247245° N<br/>LONG: 103.4848845° W</p> <p><b>BOTTOM HOLE</b><br/>N 602335.8 - E 801930.2<br/>LAT: 32.6530124° N<br/>LONG: 103.4866364° W</p> <p><b>CORNER DATA</b><br/>NAD 83 GRID - NM EAST</p> <p>A: FOUND 2" STEEL PIPE<br/>N 591835.8 - E 801562.7</p> <p>B: FOUND 1/2" REBAR<br/>N 594486.0 - E 801551.3</p> <p>C: FOUND 5/8" REBAR<br/>N 597136.9 - E 801539.8</p> <p>D: FOUND 8"x4"x4" LIMESTONE ROCK<br/>N 599776.8 - E 801512.6</p> <p>E: FOUND LIMESTONE ROCK<br/>N 602432.6 - E 801489.4</p> <p>F: FOUND 1/2" REBAR<br/>N 602452.0 - E 804138.6</p> <p>G: FOUND 5/8" REBAR<br/>N 602472.4 - E 806786.3</p> <p>H: FOUND 6"x4"x4" LIMESTONE ROCK<br/>N 599826.9 - E 806808.3</p> <p>I: FOUND 1/2" REBAR<br/>N 597180.6 - E 806833.3</p> <p>J: FOUND 1" REBAR<br/>N 591876.9 - E 806871.7</p> <p>K: FOUND 8"x2"x4" LIMESTONE ROCK<br/>N 597160.2 - E 804189.8</p> | <p><b><sup>17</sup> OPERATOR CERTIFICATION</b><br/>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.</p> <p><i>Bradley Bishop</i> 3-15-21<br/>Signature Date<br/><b>BRADLEY BISHOP</b><br/>Printed Name<br/><b>BBISHOP@MEWBOURNE.COM</b><br/>E-mail Address</p> <p><b><sup>18</sup> SURVEYOR CERTIFICATION</b><br/>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.</p> <p><b>08-30-19</b><br/>Date of Survey<br/>Signature and Seal of Professional Surveyor<br/><br/><b>19680</b><br/>Certificate Number<br/>REV. NAME CHANGE - 3/11/21<br/>Job No.: LS19080804R</p> |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Intent ☐ As Drilled ☐

|                |                |             |
|----------------|----------------|-------------|
| API #          |                |             |
| Operator Name: | Property Name: | Well Number |

## Kick Off Point (KOP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

## First Take Point (FTP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

## Last Take Point (LTP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

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

|                |                |             |
|----------------|----------------|-------------|
| API #          |                |             |
| Operator Name: | Property Name: | Well Number |

KZ 06/29/2018

Well Name                      Hereford 29/20 W1MD State Com #1H

| Csg Type | Fluid Type | Hole Size | Csg Size | Csg Grade | Csg Weight | Top MD | Setting Depth | SKS Cmt |
|----------|------------|-----------|----------|-----------|------------|--------|---------------|---------|
| Surf     | Spud Mud   | 17 1/2"   | 13 3/8"  | J-55      | 54.5       | 0      | 1940          | 1350    |
| Inter    | Brine      | 12 1/4"   | 9 5/8"   | L80       | 40         | 0      | 3655          | 730     |
| Prod     | Cut Brine  | 8 3/4"    | 7"       | P110      | 26         | 0      | 11200         | 870     |
| Liner    | OBM        | 6 1/8"    | 4 1/2"   | P110      | 13.5       | 10554  | 21371         | 430     |

| Top Cmt |
|---------|
| 0       |
| 0       |
| 3455    |
| 10554   |

# **Mewbourne Oil Company**

**Lea County, New Mexico NAD 83**

**Hereford 29/20 W1MD State Com #1H**

**Sec 29, T19S, R35E**

**SHL: 205' FSL & 990' FWL, Sec 29**

**BHL: 100' FNL & 440' FWL, Sec 20**

**Plan: Design #1**

## **Standard Planning Report**

**12 March, 2021**

## Planning Report

|                  |                                   |                                     |                                        |
|------------------|-----------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                             | <b>Local Co-ordinate Reference:</b> | Site Hereford 29/20 W1MD State Com #1H |
| <b>Company:</b>  | Mewbourne Oil Company             | <b>TVD Reference:</b>               | WELL @ 3772.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico NAD 83     | <b>MD Reference:</b>                | WELL @ 3772.0usft (Original Well Elev) |
| <b>Site:</b>     | Hereford 29/20 W1MD State Com #1H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 29, T19S, R35E                | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 100' FNL & 440' FWL, Sec 20  |                                     |                                        |
| <b>Design:</b>   | Design #1                         |                                     |                                        |

|                    |                               |                      |                |
|--------------------|-------------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, New Mexico 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       |                      |                |

|                       |                                   |              |                 |            |              |
|-----------------------|-----------------------------------|--------------|-----------------|------------|--------------|
| Site                  | Hereford 29/20 W1MD State Com #1H |              |                 |            |              |
| Site Position:        |                                   | Northing:    | 592,048.00 usft | Latitude:  | 32.6247235   |
| From:                 | Map                               | Easting:     | 802,552.00 usft | Longitude: | -103.4848833 |
| Position Uncertainty: | 0.0 usft                          | Slot Radius: | 13-3/16 "       |            |              |

| Well                 | Sec 29, T19S, R35E |          |                     |                 |               |              |
|----------------------|--------------------|----------|---------------------|-----------------|---------------|--------------|
| Well Position        | +N/-S              | 0.0 usft | Northing:           | 592,048.00 usft | Latitude:     | 32.6247235   |
|                      | +E/-W              | 0.0 usft | Easting:            | 802,552.00 usft | Longitude:    | -103.4848833 |
| Position Uncertainty |                    | 0.0 usft | Wellhead Elevation: | 3,772.0 usft    | Ground Level: | 3,744.0 usft |
| Grid Convergence:    |                    | 0.46 °   |                     |                 |               |              |

|                  |                                  |                    |                        |                      |                            |
|------------------|----------------------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | BHL: 100' FNL & 440' FWL, Sec 20 |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b>                | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010                         | 12/31/2014         | 7.14                   | 60.48                | 48,509.18755334            |

|                          |                                |                     |                      |                      |  |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|--|
| <b>Design</b>            | Design #1                      |                     |                      |                      |  |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |  |
| <b>Version:</b>          | <b>Phase:</b>                  | PROTOTYPE           | <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                  | 356.54               |  |

|                                 |                        |                          |                                  |                |  |
|---------------------------------|------------------------|--------------------------|----------------------------------|----------------|--|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 3/12/2021                |                                  |                |  |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>                 | <b>Remarks</b> |  |
| 1                               | 0.0                    | 21,371.1                 | Design #1 (BHL: 100' FNL & 440') |                |  |

|                              |                        |                    |                              |                     |                     |                                |                               |                              |                |                     |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|-------------------------------|------------------------------|----------------|---------------------|
| <b>Plan Sections</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>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> | <b>TFO (°)</b> | <b>Target</b>       |
| 0.0                          | 0.00                   | 0.00               | 0.0                          | 0.0                 | 0.0                 | 0.00                           | 0.00                          | 0.00                         | 0.00           |                     |
| 3,655.0                      | 0.00                   | 0.00               | 3,655.0                      | 0.0                 | 0.0                 | 0.00                           | 0.00                          | 0.00                         | 0.00           |                     |
| 3,907.1                      | 5.04                   | 249.98             | 3,906.8                      | -3.8                | -10.4               | 2.00                           | 2.00                          | 0.00                         | 249.98         |                     |
| 10,302.3                     | 5.04                   | 249.98             | 10,277.2                     | -196.2              | -538.6              | 0.00                           | 0.00                          | 0.00                         | 0.00           |                     |
| 10,554.4                     | 0.00                   | 0.00               | 10,529.0                     | -200.0              | -549.0              | 2.00                           | -2.00                         | 0.00                         | 180.00         | KOP: 10' FSL & 440' |
| 11,464.1                     | 90.95                  | 359.60             | 11,102.0                     | 382.6               | -553.1              | 10.00                          | 10.00                         | 0.00                         | -0.40          |                     |
| 21,371.1                     | 90.95                  | 359.60             | 10,937.0                     | 10,288.0            | -622.0              | 0.00                           | 0.00                          | 0.00                         | 0.00           | BHL: 100' FNL & 440 |

## Planning Report

|                  |                                   |                                     |                                        |
|------------------|-----------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                             | <b>Local Co-ordinate Reference:</b> | Site Hereford 29/20 W1MD State Com #1H |
| <b>Company:</b>  | Mewbourne Oil Company             | <b>TVD Reference:</b>               | WELL @ 3772.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico NAD 83     | <b>MD Reference:</b>                | WELL @ 3772.0usft (Original Well Elev) |
| <b>Site:</b>     | Hereford 29/20 W1MD State Com #1H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 29, T19S, R35E                | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 100' FNL & 440' FWL, Sec 20  |                                     |                                        |
| <b>Design:</b>   | Design #1                         |                                     |                                        |

| Planned Survey                |                 |             |                       |              |              |                         |                         |                        |                       |
|-------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)         | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0                           | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| SHL: 205' FSL & 990' FWL (29) |                 |             |                       |              |              |                         |                         |                        |                       |
| 100.0                         | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 200.0                         | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 300.0                         | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 400.0                         | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 500.0                         | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 600.0                         | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 700.0                         | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 800.0                         | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 900.0                         | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0                       | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0                       | 0.00            | 0.00        | 1,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0                       | 0.00            | 0.00        | 1,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0                       | 0.00            | 0.00        | 1,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0                       | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0                       | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0                       | 0.00            | 0.00        | 1,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0                       | 0.00            | 0.00        | 1,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0                       | 0.00            | 0.00        | 1,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0                       | 0.00            | 0.00        | 1,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0                       | 0.00            | 0.00        | 2,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0                       | 0.00            | 0.00        | 2,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0                       | 0.00            | 0.00        | 2,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0                       | 0.00            | 0.00        | 2,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0                       | 0.00            | 0.00        | 2,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0                       | 0.00            | 0.00        | 2,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0                       | 0.00            | 0.00        | 2,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0                       | 0.00            | 0.00        | 2,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0                       | 0.00            | 0.00        | 2,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0                       | 0.00            | 0.00        | 2,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0                       | 0.00            | 0.00        | 3,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0                       | 0.00            | 0.00        | 3,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0                       | 0.00            | 0.00        | 3,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0                       | 0.00            | 0.00        | 3,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0                       | 0.00            | 0.00        | 3,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0                       | 0.00            | 0.00        | 3,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0                       | 0.00            | 0.00        | 3,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,655.0                       | 0.00            | 0.00        | 3,655.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0                       | 0.90            | 249.98      | 3,700.0               | -0.1         | -0.3         | -0.1                    | 2.00                    | 2.00                   | 0.00                  |
| 3,800.0                       | 2.90            | 249.98      | 3,799.9               | -1.3         | -3.4         | -1.0                    | 2.00                    | 2.00                   | 0.00                  |
| 3,900.0                       | 4.90            | 249.98      | 3,899.7               | -3.6         | -9.8         | -3.0                    | 2.00                    | 2.00                   | 0.00                  |
| 3,907.1                       | 5.04            | 249.98      | 3,906.8               | -3.8         | -10.4        | -3.2                    | 2.00                    | 2.00                   | 0.00                  |
| 4,000.0                       | 5.04            | 249.98      | 3,999.3               | -6.6         | -18.1        | -5.5                    | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0                       | 5.04            | 249.98      | 4,098.9               | -9.6         | -26.3        | -8.0                    | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0                       | 5.04            | 249.98      | 4,198.5               | -12.6        | -34.6        | -10.5                   | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0                       | 5.04            | 249.98      | 4,298.2               | -15.6        | -42.9        | -13.0                   | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0                       | 5.04            | 249.98      | 4,397.8               | -18.6        | -51.1        | -15.5                   | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0                       | 5.04            | 249.98      | 4,497.4               | -21.6        | -59.4        | -18.0                   | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0                       | 5.04            | 249.98      | 4,597.0               | -24.6        | -67.6        | -20.5                   | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0                       | 5.04            | 249.98      | 4,696.6               | -27.7        | -75.9        | -23.0                   | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0                       | 5.04            | 249.98      | 4,796.2               | -30.7        | -84.2        | -25.5                   | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0                       | 5.04            | 249.98      | 4,895.8               | -33.7        | -92.4        | -28.0                   | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0                       | 5.04            | 249.98      | 4,995.4               | -36.7        | -100.7       | -30.5                   | 0.00                    | 0.00                   | 0.00                  |

## Planning Report

|                  |                                   |                                     |                                        |
|------------------|-----------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                             | <b>Local Co-ordinate Reference:</b> | Site Hereford 29/20 W1MD State Com #1H |
| <b>Company:</b>  | Mewbourne Oil Company             | <b>TVD Reference:</b>               | WELL @ 3772.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico NAD 83     | <b>MD Reference:</b>                | WELL @ 3772.0usft (Original Well Elev) |
| <b>Site:</b>     | Hereford 29/20 W1MD State Com #1H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 29, T19S, R35E                | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 100' FNL & 440' FWL, Sec 20  |                                     |                                        |
| <b>Design:</b>   | Design #1                         |                                     |                                        |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 5,100.0               | 5.04            | 249.98      | 5,095.1               | -39.7        | -108.9       | -33.0                   | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 5.04            | 249.98      | 5,194.7               | -42.7        | -117.2       | -35.5                   | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0               | 5.04            | 249.98      | 5,294.3               | -45.7        | -125.5       | -38.0                   | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0               | 5.04            | 249.98      | 5,393.9               | -48.7        | -133.7       | -40.6                   | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0               | 5.04            | 249.98      | 5,493.5               | -51.7        | -142.0       | -43.1                   | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0               | 5.04            | 249.98      | 5,593.1               | -54.7        | -150.2       | -45.6                   | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0               | 5.04            | 249.98      | 5,692.7               | -57.7        | -158.5       | -48.1                   | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0               | 5.04            | 249.98      | 5,792.3               | -60.7        | -166.7       | -50.6                   | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0               | 5.04            | 249.98      | 5,892.0               | -63.8        | -175.0       | -53.1                   | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0               | 5.04            | 249.98      | 5,991.6               | -66.8        | -183.3       | -55.6                   | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0               | 5.04            | 249.98      | 6,091.2               | -69.8        | -191.5       | -58.1                   | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0               | 5.04            | 249.98      | 6,190.8               | -72.8        | -199.8       | -60.6                   | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0               | 5.04            | 249.98      | 6,290.4               | -75.8        | -208.0       | -63.1                   | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0               | 5.04            | 249.98      | 6,390.0               | -78.8        | -216.3       | -65.6                   | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0               | 5.04            | 249.98      | 6,489.6               | -81.8        | -224.6       | -68.1                   | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0               | 5.04            | 249.98      | 6,589.3               | -84.8        | -232.8       | -70.6                   | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0               | 5.04            | 249.98      | 6,688.9               | -87.8        | -241.1       | -73.1                   | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0               | 5.04            | 249.98      | 6,788.5               | -90.8        | -249.3       | -75.6                   | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0               | 5.04            | 249.98      | 6,888.1               | -93.8        | -257.6       | -78.1                   | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0               | 5.04            | 249.98      | 6,987.7               | -96.8        | -265.9       | -80.6                   | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0               | 5.04            | 249.98      | 7,087.3               | -99.9        | -274.1       | -83.1                   | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0               | 5.04            | 249.98      | 7,186.9               | -102.9       | -282.4       | -85.6                   | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0               | 5.04            | 249.98      | 7,286.5               | -105.9       | -290.6       | -88.1                   | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0               | 5.04            | 249.98      | 7,386.2               | -108.9       | -298.9       | -90.6                   | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0               | 5.04            | 249.98      | 7,485.8               | -111.9       | -307.1       | -93.2                   | 0.00                    | 0.00                   | 0.00                  |
| 7,600.0               | 5.04            | 249.98      | 7,585.4               | -114.9       | -315.4       | -95.7                   | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0               | 5.04            | 249.98      | 7,685.0               | -117.9       | -323.7       | -98.2                   | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0               | 5.04            | 249.98      | 7,784.6               | -120.9       | -331.9       | -100.7                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0               | 5.04            | 249.98      | 7,884.2               | -123.9       | -340.2       | -103.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0               | 5.04            | 249.98      | 7,983.8               | -126.9       | -348.4       | -105.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0               | 5.04            | 249.98      | 8,083.4               | -129.9       | -356.7       | -108.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0               | 5.04            | 249.98      | 8,183.1               | -133.0       | -365.0       | -110.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0               | 5.04            | 249.98      | 8,282.7               | -136.0       | -373.2       | -113.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0               | 5.04            | 249.98      | 8,382.3               | -139.0       | -381.5       | -115.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0               | 5.04            | 249.98      | 8,481.9               | -142.0       | -389.7       | -118.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0               | 5.04            | 249.98      | 8,581.5               | -145.0       | -398.0       | -120.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0               | 5.04            | 249.98      | 8,681.1               | -148.0       | -406.3       | -123.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0               | 5.04            | 249.98      | 8,780.7               | -151.0       | -414.5       | -125.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0               | 5.04            | 249.98      | 8,880.3               | -154.0       | -422.8       | -128.2                  | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0               | 5.04            | 249.98      | 8,980.0               | -157.0       | -431.0       | -130.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0               | 5.04            | 249.98      | 9,079.6               | -160.0       | -439.3       | -133.2                  | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0               | 5.04            | 249.98      | 9,179.2               | -163.0       | -447.5       | -135.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0               | 5.04            | 249.98      | 9,278.8               | -166.0       | -455.8       | -138.2                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0               | 5.04            | 249.98      | 9,378.4               | -169.1       | -464.1       | -140.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0               | 5.04            | 249.98      | 9,478.0               | -172.1       | -472.3       | -143.2                  | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0               | 5.04            | 249.98      | 9,577.6               | -175.1       | -480.6       | -145.8                  | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0               | 5.04            | 249.98      | 9,677.3               | -178.1       | -488.8       | -148.3                  | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0               | 5.04            | 249.98      | 9,776.9               | -181.1       | -497.1       | -150.8                  | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0               | 5.04            | 249.98      | 9,876.5               | -184.1       | -505.4       | -153.3                  | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0              | 5.04            | 249.98      | 9,976.1               | -187.1       | -513.6       | -155.8                  | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0              | 5.04            | 249.98      | 10,075.7              | -190.1       | -521.9       | -158.3                  | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0              | 5.04            | 249.98      | 10,175.3              | -193.1       | -530.1       | -160.8                  | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0              | 5.04            | 249.98      | 10,274.9              | -196.1       | -538.4       | -163.3                  | 0.00                    | 0.00                   | 0.00                  |
| 10,302.3              | 5.04            | 249.98      | 10,277.2              | -196.2       | -538.6       | -163.3                  | 0.00                    | 0.00                   | 0.00                  |

## Planning Report

|                  |                                   |                                     |                                        |
|------------------|-----------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                             | <b>Local Co-ordinate Reference:</b> | Site Hereford 29/20 W1MD State Com #1H |
| <b>Company:</b>  | Mewbourne Oil Company             | <b>TVD Reference:</b>               | WELL @ 3772.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico NAD 83     | <b>MD Reference:</b>                | WELL @ 3772.0usft (Original Well Elev) |
| <b>Site:</b>     | Hereford 29/20 W1MD State Com #1H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 29, T19S, R35E                | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 100' FNL & 440' FWL, Sec 20  |                                     |                                        |
| <b>Design:</b>   | Design #1                         |                                     |                                        |

| Planned Survey                           |                 |             |                       |              |              |                         |                         |                        |                       |
|------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                    | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 10,400.0                                 | 3.09            | 249.98      | 10,374.7              | -198.6       | -545.1       | -165.3                  | 2.00                    | -2.00                  | 0.00                  |
| 10,500.0                                 | 1.09            | 249.98      | 10,474.6              | -199.8       | -548.5       | -166.4                  | 2.00                    | -2.00                  | 0.00                  |
| 10,554.4                                 | 0.00            | 0.00        | 10,529.0              | -200.0       | -549.0       | -166.5                  | 2.00                    | -2.00                  | 0.00                  |
| <b>KOP: 10' FSL &amp; 440' FWL (29)</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,600.0                                 | 4.56            | 359.60      | 10,574.5              | -198.2       | -549.0       | -164.7                  | 10.00                   | 10.00                  | 0.00                  |
| 10,700.0                                 | 14.56           | 359.60      | 10,673.0              | -181.6       | -549.1       | -148.1                  | 10.00                   | 10.00                  | 0.00                  |
| 10,800.0                                 | 24.55           | 359.60      | 10,767.1              | -148.2       | -549.4       | -114.8                  | 10.00                   | 10.00                  | 0.00                  |
| 10,889.1                                 | 33.47           | 359.60      | 10,845.0              | -105.0       | -549.7       | -71.6                   | 10.00                   | 10.00                  | 0.00                  |
| <b>FTP: 100' FSL &amp; 440' FWL (29)</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,900.0                                 | 34.55           | 359.60      | 10,854.0              | -98.9        | -549.7       | -65.6                   | 10.00                   | 10.00                  | 0.00                  |
| 11,000.0                                 | 44.55           | 359.60      | 10,931.0              | -35.3        | -550.1       | -2.1                    | 10.00                   | 10.00                  | 0.00                  |
| 11,100.0                                 | 54.55           | 359.60      | 10,995.8              | 40.7         | -550.7       | 73.8                    | 10.00                   | 10.00                  | 0.00                  |
| 11,200.0                                 | 64.55           | 359.60      | 11,046.5              | 126.8        | -551.3       | 159.8                   | 10.00                   | 10.00                  | 0.00                  |
| 11,300.0                                 | 74.54           | 359.60      | 11,081.4              | 220.3        | -551.9       | 253.2                   | 10.00                   | 10.00                  | 0.00                  |
| 11,400.0                                 | 84.54           | 359.60      | 11,099.5              | 318.6        | -552.6       | 351.3                   | 10.00                   | 10.00                  | 0.00                  |
| 11,464.1                                 | 90.95           | 359.60      | 11,102.0              | 382.6        | -553.1       | 415.3                   | 10.00                   | 10.00                  | 0.00                  |
| <b>LP: 588' FSL &amp; 440' FWL (29)</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,500.0                                 | 90.95           | 359.60      | 11,101.4              | 418.5        | -553.3       | 451.1                   | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                                 | 90.95           | 359.60      | 11,099.7              | 518.4        | -554.0       | 550.9                   | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                                 | 90.95           | 359.60      | 11,098.1              | 618.4        | -554.7       | 650.8                   | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                                 | 90.95           | 359.60      | 11,096.4              | 718.4        | -555.4       | 750.6                   | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                                 | 90.95           | 359.60      | 11,094.7              | 818.4        | -556.1       | 850.5                   | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0                                 | 90.95           | 359.60      | 11,093.1              | 918.4        | -556.8       | 950.3                   | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0                                 | 90.95           | 359.60      | 11,091.4              | 1,018.4      | -557.5       | 1,050.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0                                 | 90.95           | 359.60      | 11,089.7              | 1,118.4      | -558.2       | 1,150.0                 | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0                                 | 90.95           | 359.60      | 11,088.1              | 1,218.3      | -558.9       | 1,249.8                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0                                 | 90.95           | 359.60      | 11,086.4              | 1,318.3      | -559.6       | 1,349.7                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0                                 | 90.95           | 359.60      | 11,084.7              | 1,418.3      | -560.3       | 1,449.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0                                 | 90.95           | 359.60      | 11,083.1              | 1,518.3      | -561.0       | 1,549.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0                                 | 90.95           | 359.60      | 11,081.4              | 1,618.3      | -561.7       | 1,649.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0                                 | 90.95           | 359.60      | 11,079.8              | 1,718.3      | -562.4       | 1,749.1                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0                                 | 90.95           | 359.60      | 11,078.1              | 1,818.2      | -563.0       | 1,848.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                                 | 90.95           | 359.60      | 11,076.4              | 1,918.2      | -563.7       | 1,948.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                                 | 90.95           | 359.60      | 11,074.8              | 2,018.2      | -564.4       | 2,048.6                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0                                 | 90.95           | 359.60      | 11,073.1              | 2,118.2      | -565.1       | 2,148.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0                                 | 90.95           | 359.60      | 11,071.4              | 2,218.2      | -565.8       | 2,248.3                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0                                 | 90.95           | 359.60      | 11,069.8              | 2,318.2      | -566.5       | 2,348.1                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0                                 | 90.95           | 359.60      | 11,068.1              | 2,418.1      | -567.2       | 2,448.0                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0                                 | 90.95           | 359.60      | 11,066.4              | 2,518.1      | -567.9       | 2,547.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0                                 | 90.95           | 359.60      | 11,064.8              | 2,618.1      | -568.6       | 2,647.6                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0                                 | 90.95           | 359.60      | 11,063.1              | 2,718.1      | -569.3       | 2,747.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0                                 | 90.95           | 359.60      | 11,061.4              | 2,818.1      | -570.0       | 2,847.3                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0                                 | 90.95           | 359.60      | 11,059.8              | 2,918.1      | -570.7       | 2,947.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0                                 | 90.95           | 359.60      | 11,058.1              | 3,018.0      | -571.4       | 3,047.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0                                 | 90.95           | 359.60      | 11,056.4              | 3,118.0      | -572.1       | 3,146.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0                                 | 90.95           | 359.60      | 11,054.8              | 3,218.0      | -572.8       | 3,246.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0                                 | 90.95           | 359.60      | 11,053.1              | 3,318.0      | -573.5       | 3,346.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0                                 | 90.95           | 359.60      | 11,051.4              | 3,418.0      | -574.2       | 3,446.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0                                 | 90.95           | 359.60      | 11,049.8              | 3,518.0      | -574.9       | 3,546.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0                                 | 90.95           | 359.60      | 11,048.1              | 3,617.9      | -575.6       | 3,646.1                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0                                 | 90.95           | 359.60      | 11,046.4              | 3,717.9      | -576.3       | 3,745.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0                                 | 90.95           | 359.60      | 11,044.8              | 3,817.9      | -577.0       | 3,845.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0                                 | 90.95           | 359.60      | 11,043.1              | 3,917.9      | -577.7       | 3,945.6                 | 0.00                    | 0.00                   | 0.00                  |

## Planning Report

|                  |                                   |                                     |                                        |
|------------------|-----------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                             | <b>Local Co-ordinate Reference:</b> | Site Hereford 29/20 W1MD State Com #1H |
| <b>Company:</b>  | Mewbourne Oil Company             | <b>TVD Reference:</b>               | WELL @ 3772.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico NAD 83     | <b>MD Reference:</b>                | WELL @ 3772.0usft (Original Well Elev) |
| <b>Site:</b>     | Hereford 29/20 W1MD State Com #1H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 29, T19S, R35E                | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 100' FNL & 440' FWL, Sec 20  |                                     |                                        |
| <b>Design:</b>   | Design #1                         |                                     |                                        |

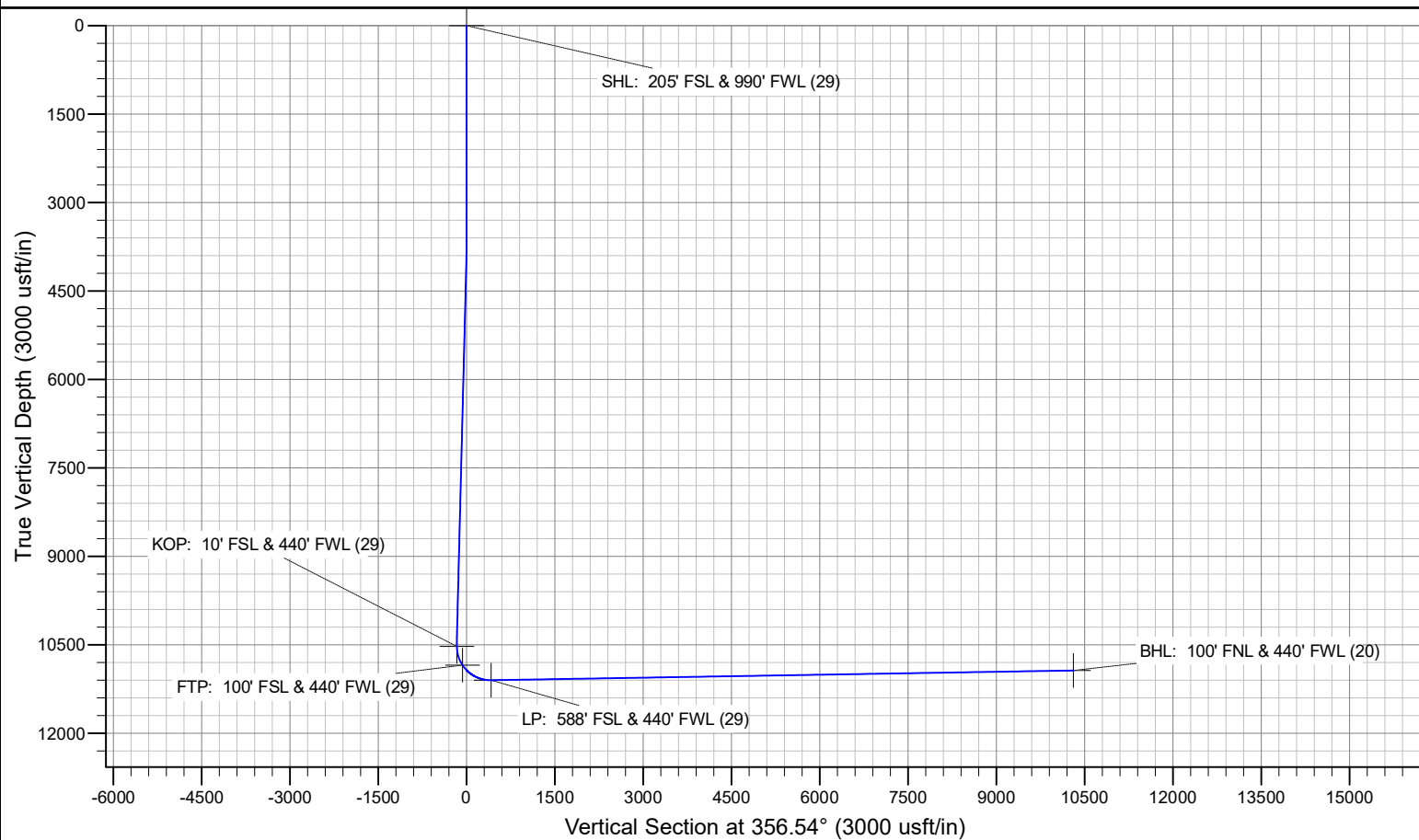
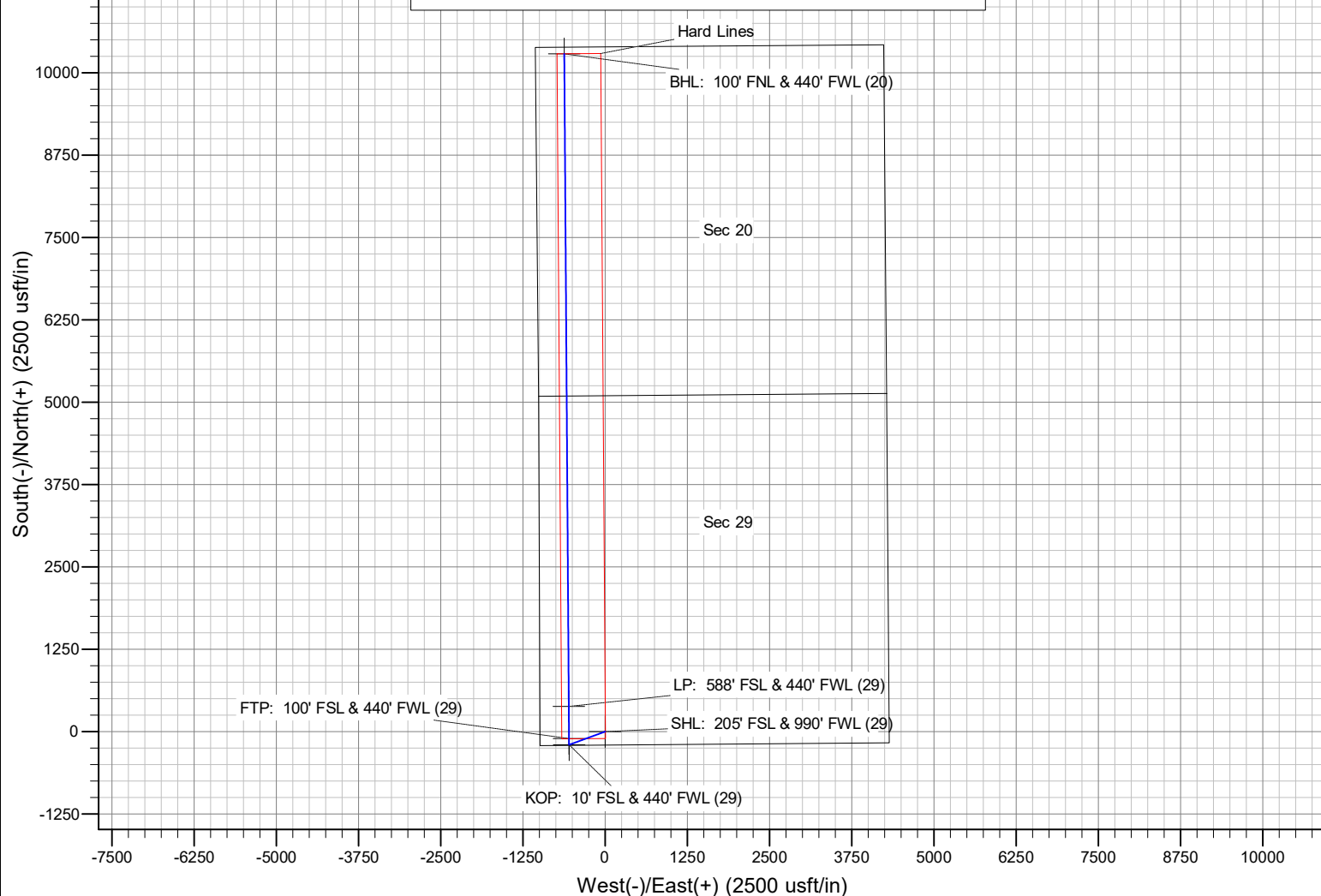
| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 15,100.0              | 90.95           | 359.60      | 11,041.4              | 4,017.9      | -578.4       | 4,045.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,200.0              | 90.95           | 359.60      | 11,039.8              | 4,117.9      | -579.1       | 4,145.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,300.0              | 90.95           | 359.60      | 11,038.1              | 4,217.8      | -579.7       | 4,245.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,400.0              | 90.95           | 359.60      | 11,036.4              | 4,317.8      | -580.4       | 4,345.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,500.0              | 90.95           | 359.60      | 11,034.8              | 4,417.8      | -581.1       | 4,444.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,600.0              | 90.95           | 359.60      | 11,033.1              | 4,517.8      | -581.8       | 4,544.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,700.0              | 90.95           | 359.60      | 11,031.5              | 4,617.8      | -582.5       | 4,644.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,800.0              | 90.95           | 359.60      | 11,029.8              | 4,717.8      | -583.2       | 4,744.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,900.0              | 90.95           | 359.60      | 11,028.1              | 4,817.7      | -583.9       | 4,844.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,000.0              | 90.95           | 359.60      | 11,026.5              | 4,917.7      | -584.6       | 4,944.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,100.0              | 90.95           | 359.60      | 11,024.8              | 5,017.7      | -585.3       | 5,043.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,200.0              | 90.95           | 359.60      | 11,023.1              | 5,117.7      | -586.0       | 5,143.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,300.0              | 90.95           | 359.60      | 11,021.5              | 5,217.7      | -586.7       | 5,243.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,400.0              | 90.95           | 359.60      | 11,019.8              | 5,317.7      | -587.4       | 5,343.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,500.0              | 90.95           | 359.60      | 11,018.1              | 5,417.7      | -588.1       | 5,443.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,600.0              | 90.95           | 359.60      | 11,016.5              | 5,517.6      | -588.8       | 5,543.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,700.0              | 90.95           | 359.60      | 11,014.8              | 5,617.6      | -589.5       | 5,643.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,800.0              | 90.95           | 359.60      | 11,013.1              | 5,717.6      | -590.2       | 5,742.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,900.0              | 90.95           | 359.60      | 11,011.5              | 5,817.6      | -590.9       | 5,842.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,000.0              | 90.95           | 359.60      | 11,009.8              | 5,917.6      | -591.6       | 5,942.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,100.0              | 90.95           | 359.60      | 11,008.1              | 6,017.6      | -592.3       | 6,042.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,200.0              | 90.95           | 359.60      | 11,006.5              | 6,117.5      | -593.0       | 6,142.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,300.0              | 90.95           | 359.60      | 11,004.8              | 6,217.5      | -593.7       | 6,242.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,400.0              | 90.95           | 359.60      | 11,003.1              | 6,317.5      | -594.4       | 6,341.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,500.0              | 90.95           | 359.60      | 11,001.5              | 6,417.5      | -595.1       | 6,441.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,600.0              | 90.95           | 359.60      | 10,999.8              | 6,517.5      | -595.8       | 6,541.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,700.0              | 90.95           | 359.60      | 10,998.1              | 6,617.5      | -596.5       | 6,641.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,800.0              | 90.95           | 359.60      | 10,996.5              | 6,717.4      | -597.1       | 6,741.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,900.0              | 90.95           | 359.60      | 10,994.8              | 6,817.4      | -597.8       | 6,841.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 18,000.0              | 90.95           | 359.60      | 10,993.1              | 6,917.4      | -598.5       | 6,940.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 18,100.0              | 90.95           | 359.60      | 10,991.5              | 7,017.4      | -599.2       | 7,040.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 18,200.0              | 90.95           | 359.60      | 10,989.8              | 7,117.4      | -599.9       | 7,140.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 18,300.0              | 90.95           | 359.60      | 10,988.1              | 7,217.4      | -600.6       | 7,240.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 18,400.0              | 90.95           | 359.60      | 10,986.5              | 7,317.3      | -601.3       | 7,340.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 18,500.0              | 90.95           | 359.60      | 10,984.8              | 7,417.3      | -602.0       | 7,440.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 18,600.0              | 90.95           | 359.60      | 10,983.2              | 7,517.3      | -602.7       | 7,540.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 18,700.0              | 90.95           | 359.60      | 10,981.5              | 7,617.3      | -603.4       | 7,639.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 18,800.0              | 90.95           | 359.60      | 10,979.8              | 7,717.3      | -604.1       | 7,739.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 18,900.0              | 90.95           | 359.60      | 10,978.2              | 7,817.3      | -604.8       | 7,839.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 19,000.0              | 90.95           | 359.60      | 10,976.5              | 7,917.2      | -605.5       | 7,939.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 19,100.0              | 90.95           | 359.60      | 10,974.8              | 8,017.2      | -606.2       | 8,039.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 19,200.0              | 90.95           | 359.60      | 10,973.2              | 8,117.2      | -606.9       | 8,139.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 19,300.0              | 90.95           | 359.60      | 10,971.5              | 8,217.2      | -607.6       | 8,238.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 19,400.0              | 90.95           | 359.60      | 10,969.8              | 8,317.2      | -608.3       | 8,338.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 19,500.0              | 90.95           | 359.60      | 10,968.2              | 8,417.2      | -609.0       | 8,438.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 19,600.0              | 90.95           | 359.60      | 10,966.5              | 8,517.1      | -609.7       | 8,538.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 19,700.0              | 90.95           | 359.60      | 10,964.8              | 8,617.1      | -610.4       | 8,638.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 19,800.0              | 90.95           | 359.60      | 10,963.2              | 8,717.1      | -611.1       | 8,738.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 19,900.0              | 90.95           | 359.60      | 10,961.5              | 8,817.1      | -611.8       | 8,837.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,000.0              | 90.95           | 359.60      | 10,959.8              | 8,917.1      | -612.5       | 8,937.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,100.0              | 90.95           | 359.60      | 10,958.2              | 9,017.1      | -613.2       | 9,037.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,200.0              | 90.95           | 359.60      | 10,956.5              | 9,117.0      | -613.8       | 9,137.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,300.0              | 90.95           | 359.60      | 10,954.8              | 9,217.0      | -614.5       | 9,237.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,400.0              | 90.95           | 359.60      | 10,953.2              | 9,317.0      | -615.2       | 9,337.2                 | 0.00                    | 0.00                   | 0.00                  |  |

## Planning Report

|                  |                                   |                                     |                                        |
|------------------|-----------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                             | <b>Local Co-ordinate Reference:</b> | Site Hereford 29/20 W1MD State Com #1H |
| <b>Company:</b>  | Mewbourne Oil Company             | <b>TVD Reference:</b>               | WELL @ 3772.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico NAD 83     | <b>MD Reference:</b>                | WELL @ 3772.0usft (Original Well Elev) |
| <b>Site:</b>     | Hereford 29/20 W1MD State Com #1H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 29, T19S, R35E                | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 100' FNL & 440' FWL, Sec 20  |                                     |                                        |
| <b>Design:</b>   | Design #1                         |                                     |                                        |

| Planned 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) |  |
| 20,500.0                      | 90.95           | 359.60      | 10,951.5              | 9,417.0      | -615.9       | 9,437.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,600.0                      | 90.95           | 359.60      | 10,949.8              | 9,517.0      | -616.6       | 9,536.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,700.0                      | 90.95           | 359.60      | 10,948.2              | 9,617.0      | -617.3       | 9,636.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,800.0                      | 90.95           | 359.60      | 10,946.5              | 9,716.9      | -618.0       | 9,736.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,900.0                      | 90.95           | 359.60      | 10,944.8              | 9,816.9      | -618.7       | 9,836.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 21,000.0                      | 90.95           | 359.60      | 10,943.2              | 9,916.9      | -619.4       | 9,936.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 21,100.0                      | 90.95           | 359.60      | 10,941.5              | 10,016.9     | -620.1       | 10,036.1                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,200.0                      | 90.95           | 359.60      | 10,939.9              | 10,116.9     | -620.8       | 10,135.9                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,300.0                      | 90.95           | 359.60      | 10,938.2              | 10,216.9     | -621.5       | 10,235.8                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,371.1                      | 90.95           | 359.60      | 10,937.0              | 10,288.0     | -622.0       | 10,306.8                | 0.00                    | 0.00                   | 0.00                  |  |
| BHL: 100' FNL & 440' FWL (20) |                 |             |                       |              |              |                         |                         |                        |                       |  |

| Design Targets                                                  |               |              |            |              |              |                 |                |            |              |  |
|-----------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------|--------------|--|
| Target Name<br>- hit/miss target<br>- Shape                     | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude   | Longitude    |  |
| SHL: 205' FSL & 990' F'<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 0.0        | 0.0          | 0.0          | 592,048.00      | 802,552.00     | 32.6247235 | -103.4848833 |  |
| KOP: 10' FSL & 440' FV<br>- plan hits target center<br>- Point  | 0.00          | 0.00         | 10,529.0   | -200.0       | -549.0       | 591,848.00      | 802,003.00     | 32.6241859 | -103.4866715 |  |
| FTP: 100' FSL & 440' F'<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 10,845.0   | -105.0       | -549.7       | 591,943.00      | 802,002.34     | 32.6244470 | -103.4866712 |  |
| BHL: 100' FNL & 440' F<br>- plan hits target center<br>- Point  | 0.00          | 0.00         | 10,937.0   | 10,288.0     | -622.0       | 602,336.00      | 801,930.00     | 32.6530129 | -103.4866371 |  |
| LP: 588' FSL & 440' FW<br>- plan hits target center<br>- Point  | 0.00          | 0.00         | 11,102.0   | 382.6        | -553.1       | 592,430.60      | 801,998.94     | 32.6257872 | -103.4866696 |  |



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 20831

CONDITIONS OF APPROVAL

|              |                  |               |                |        |       |                |       |              |        |
|--------------|------------------|---------------|----------------|--------|-------|----------------|-------|--------------|--------|
| Operator:    | MEWBOURNE OIL CO | P.O. Box 5270 | Hobbs, NM88241 | OGRID: | 14744 | Action Number: | 20831 | Action Type: | C-103A |
| OCD Reviewer | Condition        |               |                |        |       |                |       |              |        |
| pkautz       | None             |               |                |        |       |                |       |              |        |