

|                                          |                                                                               |                                          |
|------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------|
| <b>Well Name:</b> FORTY NINER RIDGE UNIT | <b>Well Location:</b> T23S / R30E / SEC 22 / SWSE / 32.2833078 / -103.8667552 | <b>County or Parish/State:</b> EDDY / NM |
| <b>Well Number:</b> 114H                 | <b>Type of Well:</b> CONVENTIONAL GAS WELL                                    | <b>Allottee or Tribe Name:</b>           |
| <b>Lease Number:</b> NMNM0531277         | <b>Unit or CA Name:</b> FORTY NINER RIDGE UNIT                                | <b>Unit or CA Number:</b> NMNM70951X     |
| <b>US Well Number:</b> 3001547452        | <b>Well Status:</b> Drilling Well                                             | <b>Operator:</b> MEWBOURNE OIL COMPANY   |

Notice of Intent

**Sundry ID:** 2632653

|                                                       |                                     |
|-------------------------------------------------------|-------------------------------------|
| <b>Type of Submission:</b> Notice of Intent           | <b>Type of Action:</b> Other        |
| <b>Date Sundry Submitted:</b> 09/03/2021              | <b>Time Sundry Submitted:</b> 01:25 |
| <b>Date proposed operation will begin:</b> 09/03/2021 |                                     |

**Procedure Description:** Mewbourne Oil Company request approval to make the following changes to the approved APD: - Change BHL from 330' FNL & 1650' FEL Sec 15, T23S, R30E, to 20' FNL & 1870' FEL Sec 15, T23S, R30E. - Change casing and cement design as detailed in the attachment - Change BOP from 10M to 5M Please contact Mike Loy with any questions.

Surface Disturbance

**Is any additional surface disturbance proposed?:** No

NOI Attachments

Procedure Description

- Forty\_Niner\_Ridge\_Unit\_114H\_Signed\_C102\_20210903132412.pdf
- Forty\_Niner\_Ridge\_Unit\_114H\_Csg\_Assumptions\_20210903132412.pdf
- Forty\_Niner\_Ridge\_Unit\_114H\_Dir\_Plot\_20210903132412.pdf
- Forty\_Niner\_Ridge\_Unit\_114H\_Dir\_Plan\_20210903132411.pdf
- Forty\_Niner\_Ridge\_Unit\_114H\_5M\_BOPE\_Schematic\_20210903132350.pdf
- Forty\_Niner\_Ridge\_Unit\_114H\_5M\_Mutli\_Bowl\_WH\_20210903132350.pdf
- Forty\_Niner\_Ridge\_Unit\_114H\_5M\_BOPE\_Choke\_Diagram\_20210903132338.pdf

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|                                          |                                                                               |                                          |
|------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------|
| <b>Well Name:</b> FORTY NINER RIDGE UNIT | <b>Well Location:</b> T23S / R30E / SEC 22 / SWSE / 32.2833078 / -103.8667552 | <b>County or Parish/State:</b> EDDY / NM |
| <b>Well Number:</b> 114H                 | <b>Type of Well:</b> CONVENTIONAL GAS WELL                                    | <b>Allottee or Tribe Name:</b>           |
| <b>Lease Number:</b> NMNM0531277         | <b>Unit or CA Name:</b> FORTY NINER RIDGE UNIT                                | <b>Unit or CA Number:</b> NMNM70951X     |
| <b>US Well Number:</b> 3001547452        | <b>Well Status:</b> Drilling Well                                             | <b>Operator:</b> MEWBOURNE OIL COMPANY   |

Conditions of Approval

Specialist Review

FORTY\_NINER\_RIDGE\_UNIT\_114H\_Drilling\_Sundry\_2632653\_COA\_OTA\_20210913105448.pdf

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

**Operator Electronic Signature:** BRADLEY BISHOP

**Signed on:** SEP 03, 2021 01:24 PM

**Name:** MEWBOURNE OIL COMPANY

**Title:** Regulatory

**Street Address:** PO Box 5270

**City:** Hobbs

**State:** NM

**Phone:** (575) 393-5905

**Email address:** bbishop@mewbourne.com

Field Representative

**Representative Name:** Mike Loy

**Street Address:**

**City:** Hobbs

**State:** NM

**Zip:** 88240

**Phone:** (575)263-4941

**Email address:** mloy@mewbourne.com

BLM Point of Contact

**BLM POC Name:** AJIBOLA OLABODE

**BLM POC Title:** Engineer

**BLM POC Phone:** 5752342231

**BLM POC Email Address:** OAJIBOLAEIT@BLM.GOV

**Disposition:** Approved

**Disposition Date:** 09/13/2021

**Signature:** Olabode Thomas Ajibola

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 Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 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

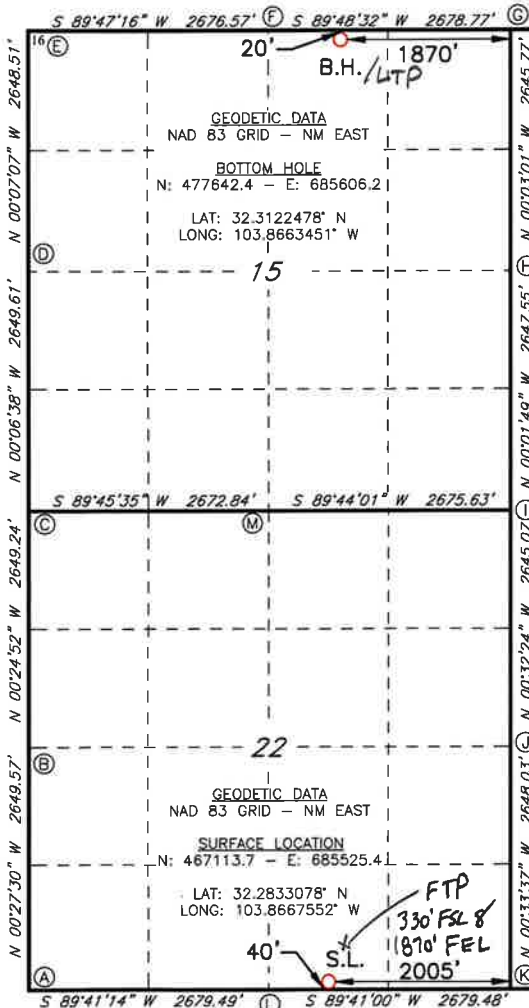
Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                   |                      |                                                  |                     |                                                |                               |
|---------------------------------------------------|----------------------|--------------------------------------------------|---------------------|------------------------------------------------|-------------------------------|
| 1 API Number<br><b>30-015-47452</b>               |                      | 2 Pool Code<br><b>98358</b>                      |                     | 3 Pool Name<br><b>WC23S30E22; Wolfcamp GAS</b> |                               |
| 4 Property Code<br><b>35090</b>                   |                      | 5 Property Name<br><b>FORTY NINER RIDGE UNIT</b> |                     |                                                | 6 Well Number<br><b>114H</b>  |
| 7 OGRID NO.<br><b>14744</b>                       |                      | 8 Operator Name<br><b>MEWBOURNE OIL COMPANY</b>  |                     |                                                | 9 Elevation<br><b>3269'</b>   |
| 10 Surface Location                               |                      |                                                  |                     |                                                |                               |
| UL or lot no.<br><b>0</b>                         | Section<br><b>22</b> | Township<br><b>23S</b>                           | Range<br><b>30E</b> | Lot Idn<br><b>40</b>                           | Feet from the<br><b>SOUTH</b> |
| Feet From the<br><b>2005</b>                      |                      | East/West line<br><b>EAST</b>                    |                     | County<br><b>EDDY</b>                          |                               |
| 11 Bottom Hole Location If Different From Surface |                      |                                                  |                     |                                                |                               |
| UL or lot no.<br><b>B</b>                         | Section<br><b>15</b> | Township<br><b>23S</b>                           | Range<br><b>30E</b> | Lot Idn<br><b>20</b>                           | Feet from the<br><b>NORTH</b> |
| Feet from the<br><b>1870</b>                      |                      | East/West line<br><b>EAST</b>                    |                     | County<br><b>EDDY</b>                          |                               |
| 12 Dedicated Acres                                |                      | 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.



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: *Michael Loy* Date: **9-3-21**  
Printed Name: **Michael Loy**  
E-mail Address: **mloy@mewbourne.com**

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.

**1-08-2019**

Date of Survey

Signature and Seal of Professional Surveyor

**19680**

Certificate Number

REV: BH MOVE - 6/4/2021

RRC-Job No: LS19010034R

# **Mewbourne Oil Company**

**Eddy County, New Mexico NAD 83**

**Forty Niner Ridge Unit #114H**

**Sec 22, T23S, R30E**

**SHL: 40' FSL & 2005' FEL**

**BHL: 20' FNL & 1870' FEL**

**Plan: Design #1**

## **Standard Planning Report**

**04 June, 2021**

## Planning Report

|                  |                                |                                     |                                        |
|------------------|--------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                          | <b>Local Co-ordinate Reference:</b> | Site Forty Niner Ridge Unit #114H      |
| <b>Company:</b>  | Mewbourne Oil Company          | <b>TVD Reference:</b>               | WELL @ 3297.0usft (Original Well Elev) |
| <b>Project:</b>  | Eddy County, New Mexico NAD 83 | <b>MD Reference:</b>                | WELL @ 3297.0usft (Original Well Elev) |
| <b>Site:</b>     | Forty Niner Ridge Unit #114H   | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 22, T23S, R30E             | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 20' FNL & 1870' FEL       |                                     |                                        |
| <b>Design:</b>   | Design #1                      |                                     |                                        |

|                    |                                |                      |              |
|--------------------|--------------------------------|----------------------|--------------|
| <b>Project</b>     | Eddy County, New Mexico NAD 83 |                      |              |
| <b>Map System:</b> | US State Plane 1983            | <b>System Datum:</b> | Ground Level |
| <b>Geo Datum:</b>  | North American Datum 1983      |                      |              |
| <b>Map Zone:</b>   | New Mexico Eastern Zone        |                      |              |

|                              |                              |                     |                 |                                |
|------------------------------|------------------------------|---------------------|-----------------|--------------------------------|
| <b>Site</b>                  | Forty Niner Ridge Unit #114H |                     |                 |                                |
| <b>Site Position:</b>        |                              | <b>Northing:</b>    | 467,113.70 usft | <b>Latitude:</b> 32.2833077    |
| <b>From:</b>                 | Map                          | <b>Easting:</b>     | 685,525.40 usft | <b>Longitude:</b> -103.8667550 |
| <b>Position Uncertainty:</b> | 0.0 usft                     | <b>Slot Radius:</b> | 13-3/16 "       |                                |

|                             |                    |          |                            |                 |
|-----------------------------|--------------------|----------|----------------------------|-----------------|
| <b>Well</b>                 | Sec 22, T23S, R30E |          |                            |                 |
| <b>Well Position</b>        | <b>+N/-S</b>       | 0.0 usft | <b>Northing:</b>           | 467,113.70 usft |
|                             | <b>+E/-W</b>       | 0.0 usft | <b>Easting:</b>            | 685,525.40 usft |
| <b>Position Uncertainty</b> | 0.0 usft           |          | <b>Wellhead Elevation:</b> | 3,297.0 usft    |
| <b>Grid Convergence:</b>    | 0.25 °             |          | <b>Ground Level:</b>       | 3,269.0 usft    |

|                  |                          |                    |                        |                      |                            |
|------------------|--------------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | BHL: 20' FNL & 1870' FEL |                    |                        |                      |                            |
| <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         | 7.29                   | 60.10                | 48,241.90608652            |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <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                  | 0.44                 |

|                                 |                        |                          |                                  |                |
|---------------------------------|------------------------|--------------------------|----------------------------------|----------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b> 6/4/2021   |                          |                                  |                |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>                 | <b>Remarks</b> |
| 1                               | 0.0                    | 21,409.2                 | Design #1 (BHL: 20' FNL & 1870') |                |

|                              |                        |                    |                              |                     |                     |                                |                               |                              |                |                      |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|-------------------------------|------------------------------|----------------|----------------------|
| <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           |                      |
| 425.0                        | 0.00                   | 0.00               | 425.0                        | 0.0                 | 0.0                 | 0.00                           | 0.00                          | 0.00                         | 0.00           |                      |
| 449.3                        | 0.49                   | 110.05             | 449.3                        | 0.0                 | 0.1                 | 2.00                           | 2.00                          | 0.00                         | 110.05         |                      |
| 10,500.1                     | 0.49                   | 110.05             | 10,499.7                     | -29.3               | 80.3                | 0.00                           | 0.00                          | 0.00                         | 0.00           |                      |
| 10,524.4                     | 0.00                   | 0.00               | 10,524.0                     | -29.4               | 80.4                | 2.00                           | -2.00                         | 0.00                         | 180.00         | KOP: 10' FSL & 1870' |
| 11,426.7                     | 90.23                  | 0.00               | 11,097.0                     | 545.9               | 80.4                | 10.00                          | 10.00                         | 0.00                         | 0.00           |                      |
| 21,409.2                     | 90.23                  | 0.00               | 11,057.0                     | 10,528.3            | 80.4                | 0.00                           | 0.00                          | 0.00                         | 0.00           | BHL: 20' FNL & 1870' |

## Planning Report

|                  |                                |                                     |                                        |
|------------------|--------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                          | <b>Local Co-ordinate Reference:</b> | Site Forty Niner Ridge Unit #114H      |
| <b>Company:</b>  | Mewbourne Oil Company          | <b>TVD Reference:</b>               | WELL @ 3297.0usft (Original Well Elev) |
| <b>Project:</b>  | Eddy County, New Mexico NAD 83 | <b>MD Reference:</b>                | WELL @ 3297.0usft (Original Well Elev) |
| <b>Site:</b>     | Forty Niner Ridge Unit #114H   | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 22, T23S, R30E             | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 20' FNL & 1870' FEL       |                                     |                                        |
| <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                  |
| <b>SHL: 40' FSL &amp; 2005' FEL</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 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                  |
| 425.0                               | 0.00            | 0.00        | 425.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 449.3                               | 0.49            | 110.05      | 449.3                 | 0.0          | 0.1          | 0.0                     | 2.00                    | 2.00                   | 0.00                  |
| 500.0                               | 0.49            | 110.05      | 500.0                 | -0.2         | 0.5          | -0.2                    | 0.00                    | 0.00                   | 0.00                  |
| 600.0                               | 0.49            | 110.05      | 600.0                 | -0.5         | 1.3          | -0.5                    | 0.00                    | 0.00                   | 0.00                  |
| 700.0                               | 0.49            | 110.05      | 700.0                 | -0.8         | 2.1          | -0.7                    | 0.00                    | 0.00                   | 0.00                  |
| 800.0                               | 0.49            | 110.05      | 800.0                 | -1.1         | 2.9          | -1.0                    | 0.00                    | 0.00                   | 0.00                  |
| 900.0                               | 0.49            | 110.05      | 900.0                 | -1.3         | 3.7          | -1.3                    | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0                             | 0.49            | 110.05      | 1,000.0               | -1.6         | 4.5          | -1.6                    | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0                             | 0.49            | 110.05      | 1,100.0               | -1.9         | 5.3          | -1.9                    | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0                             | 0.49            | 110.05      | 1,200.0               | -2.2         | 6.1          | -2.2                    | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0                             | 0.49            | 110.05      | 1,300.0               | -2.5         | 6.9          | -2.5                    | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0                             | 0.49            | 110.05      | 1,400.0               | -2.8         | 7.7          | -2.7                    | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0                             | 0.49            | 110.05      | 1,500.0               | -3.1         | 8.5          | -3.0                    | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0                             | 0.49            | 110.05      | 1,600.0               | -3.4         | 9.3          | -3.3                    | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0                             | 0.49            | 110.05      | 1,700.0               | -3.7         | 10.1         | -3.6                    | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0                             | 0.49            | 110.05      | 1,800.0               | -4.0         | 10.9         | -3.9                    | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0                             | 0.49            | 110.05      | 1,899.9               | -4.3         | 11.7         | -4.2                    | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0                             | 0.49            | 110.05      | 1,999.9               | -4.6         | 12.5         | -4.5                    | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0                             | 0.49            | 110.05      | 2,099.9               | -4.8         | 13.3         | -4.7                    | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0                             | 0.49            | 110.05      | 2,199.9               | -5.1         | 14.1         | -5.0                    | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0                             | 0.49            | 110.05      | 2,299.9               | -5.4         | 14.9         | -5.3                    | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0                             | 0.49            | 110.05      | 2,399.9               | -5.7         | 15.7         | -5.6                    | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0                             | 0.49            | 110.05      | 2,499.9               | -6.0         | 16.5         | -5.9                    | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0                             | 0.49            | 110.05      | 2,599.9               | -6.3         | 17.3         | -6.2                    | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0                             | 0.49            | 110.05      | 2,699.9               | -6.6         | 18.1         | -6.5                    | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0                             | 0.49            | 110.05      | 2,799.9               | -6.9         | 18.9         | -6.7                    | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0                             | 0.49            | 110.05      | 2,899.9               | -7.2         | 19.7         | -7.0                    | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0                             | 0.49            | 110.05      | 2,999.9               | -7.5         | 20.5         | -7.3                    | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0                             | 0.49            | 110.05      | 3,099.9               | -7.8         | 21.3         | -7.6                    | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0                             | 0.49            | 110.05      | 3,199.9               | -8.0         | 22.1         | -7.9                    | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0                             | 0.49            | 110.05      | 3,299.9               | -8.3         | 22.8         | -8.2                    | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0                             | 0.49            | 110.05      | 3,399.9               | -8.6         | 23.6         | -8.5                    | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0                             | 0.49            | 110.05      | 3,499.9               | -8.9         | 24.4         | -8.7                    | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0                             | 0.49            | 110.05      | 3,599.9               | -9.2         | 25.2         | -9.0                    | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0                             | 0.49            | 110.05      | 3,699.9               | -9.5         | 26.0         | -9.3                    | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0                             | 0.49            | 110.05      | 3,799.9               | -9.8         | 26.8         | -9.6                    | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0                             | 0.49            | 110.05      | 3,899.9               | -10.1        | 27.6         | -9.9                    | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0                             | 0.49            | 110.05      | 3,999.9               | -10.4        | 28.4         | -10.2                   | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0                             | 0.49            | 110.05      | 4,099.9               | -10.7        | 29.2         | -10.4                   | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0                             | 0.49            | 110.05      | 4,199.9               | -11.0        | 30.0         | -10.7                   | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0                             | 0.49            | 110.05      | 4,299.9               | -11.3        | 30.8         | -11.0                   | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0                             | 0.49            | 110.05      | 4,399.9               | -11.5        | 31.6         | -11.3                   | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0                             | 0.49            | 110.05      | 4,499.9               | -11.8        | 32.4         | -11.6                   | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0                             | 0.49            | 110.05      | 4,599.8               | -12.1        | 33.2         | -11.9                   | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0                             | 0.49            | 110.05      | 4,699.8               | -12.4        | 34.0         | -12.2                   | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0                             | 0.49            | 110.05      | 4,799.8               | -12.7        | 34.8         | -12.4                   | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0                             | 0.49            | 110.05      | 4,899.8               | -13.0        | 35.6         | -12.7                   | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0                             | 0.49            | 110.05      | 4,999.8               | -13.3        | 36.4         | -13.0                   | 0.00                    | 0.00                   | 0.00                  |

## Planning Report

|                  |                                |                                     |                                        |
|------------------|--------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                          | <b>Local Co-ordinate Reference:</b> | Site Forty Niner Ridge Unit #114H      |
| <b>Company:</b>  | Mewbourne Oil Company          | <b>TVD Reference:</b>               | WELL @ 3297.0usft (Original Well Elev) |
| <b>Project:</b>  | Eddy County, New Mexico NAD 83 | <b>MD Reference:</b>                | WELL @ 3297.0usft (Original Well Elev) |
| <b>Site:</b>     | Forty Niner Ridge Unit #114H   | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 22, T23S, R30E             | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 20' FNL & 1870' FEL       |                                     |                                        |
| <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               | 0.49            | 110.05      | 5,099.8               | -13.6        | 37.2         | -13.3                   | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 0.49            | 110.05      | 5,199.8               | -13.9        | 38.0         | -13.6                   | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0               | 0.49            | 110.05      | 5,299.8               | -14.2        | 38.8         | -13.9                   | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0               | 0.49            | 110.05      | 5,399.8               | -14.5        | 39.6         | -14.2                   | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0               | 0.49            | 110.05      | 5,499.8               | -14.8        | 40.4         | -14.4                   | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0               | 0.49            | 110.05      | 5,599.8               | -15.0        | 41.2         | -14.7                   | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0               | 0.49            | 110.05      | 5,699.8               | -15.3        | 42.0         | -15.0                   | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0               | 0.49            | 110.05      | 5,799.8               | -15.6        | 42.8         | -15.3                   | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0               | 0.49            | 110.05      | 5,899.8               | -15.9        | 43.6         | -15.6                   | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0               | 0.49            | 110.05      | 5,999.8               | -16.2        | 44.4         | -15.9                   | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0               | 0.49            | 110.05      | 6,099.8               | -16.5        | 45.2         | -16.2                   | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0               | 0.49            | 110.05      | 6,199.8               | -16.8        | 46.0         | -16.4                   | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0               | 0.49            | 110.05      | 6,299.8               | -17.1        | 46.8         | -16.7                   | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0               | 0.49            | 110.05      | 6,399.8               | -17.4        | 47.6         | -17.0                   | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0               | 0.49            | 110.05      | 6,499.8               | -17.7        | 48.4         | -17.3                   | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0               | 0.49            | 110.05      | 6,599.8               | -18.0        | 49.2         | -17.6                   | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0               | 0.49            | 110.05      | 6,699.8               | -18.2        | 50.0         | -17.9                   | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0               | 0.49            | 110.05      | 6,799.8               | -18.5        | 50.8         | -18.1                   | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0               | 0.49            | 110.05      | 6,899.8               | -18.8        | 51.6         | -18.4                   | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0               | 0.49            | 110.05      | 6,999.8               | -19.1        | 52.4         | -18.7                   | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0               | 0.49            | 110.05      | 7,099.8               | -19.4        | 53.2         | -19.0                   | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0               | 0.49            | 110.05      | 7,199.8               | -19.7        | 54.0         | -19.3                   | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0               | 0.49            | 110.05      | 7,299.8               | -20.0        | 54.8         | -19.6                   | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0               | 0.49            | 110.05      | 7,399.7               | -20.3        | 55.6         | -19.9                   | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0               | 0.49            | 110.05      | 7,499.7               | -20.6        | 56.4         | -20.1                   | 0.00                    | 0.00                   | 0.00                  |
| 7,600.0               | 0.49            | 110.05      | 7,599.7               | -20.9        | 57.2         | -20.4                   | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0               | 0.49            | 110.05      | 7,699.7               | -21.2        | 58.0         | -20.7                   | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0               | 0.49            | 110.05      | 7,799.7               | -21.5        | 58.8         | -21.0                   | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0               | 0.49            | 110.05      | 7,899.7               | -21.7        | 59.6         | -21.3                   | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0               | 0.49            | 110.05      | 7,999.7               | -22.0        | 60.4         | -21.6                   | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0               | 0.49            | 110.05      | 8,099.7               | -22.3        | 61.2         | -21.9                   | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0               | 0.49            | 110.05      | 8,199.7               | -22.6        | 62.0         | -22.1                   | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0               | 0.49            | 110.05      | 8,299.7               | -22.9        | 62.8         | -22.4                   | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0               | 0.49            | 110.05      | 8,399.7               | -23.2        | 63.6         | -22.7                   | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0               | 0.49            | 110.05      | 8,499.7               | -23.5        | 64.4         | -23.0                   | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0               | 0.49            | 110.05      | 8,599.7               | -23.8        | 65.1         | -23.3                   | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0               | 0.49            | 110.05      | 8,699.7               | -24.1        | 65.9         | -23.6                   | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0               | 0.49            | 110.05      | 8,799.7               | -24.4        | 66.7         | -23.9                   | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0               | 0.49            | 110.05      | 8,899.7               | -24.7        | 67.5         | -24.1                   | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0               | 0.49            | 110.05      | 8,999.7               | -24.9        | 68.3         | -24.4                   | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0               | 0.49            | 110.05      | 9,099.7               | -25.2        | 69.1         | -24.7                   | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0               | 0.49            | 110.05      | 9,199.7               | -25.5        | 69.9         | -25.0                   | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0               | 0.49            | 110.05      | 9,299.7               | -25.8        | 70.7         | -25.3                   | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0               | 0.49            | 110.05      | 9,399.7               | -26.1        | 71.5         | -25.6                   | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0               | 0.49            | 110.05      | 9,499.7               | -26.4        | 72.3         | -25.9                   | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0               | 0.49            | 110.05      | 9,599.7               | -26.7        | 73.1         | -26.1                   | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0               | 0.49            | 110.05      | 9,699.7               | -27.0        | 73.9         | -26.4                   | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0               | 0.49            | 110.05      | 9,799.7               | -27.3        | 74.7         | -26.7                   | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0               | 0.49            | 110.05      | 9,899.7               | -27.6        | 75.5         | -27.0                   | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0              | 0.49            | 110.05      | 9,999.7               | -27.9        | 76.3         | -27.3                   | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0              | 0.49            | 110.05      | 10,099.7              | -28.2        | 77.1         | -27.6                   | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0              | 0.49            | 110.05      | 10,199.6              | -28.4        | 77.9         | -27.8                   | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0              | 0.49            | 110.05      | 10,299.6              | -28.7        | 78.7         | -28.1                   | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0              | 0.49            | 110.05      | 10,399.6              | -29.0        | 79.5         | -28.4                   | 0.00                    | 0.00                   | 0.00                  |

## Planning Report

|                  |                                |                                     |                                        |
|------------------|--------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                          | <b>Local Co-ordinate Reference:</b> | Site Forty Niner Ridge Unit #114H      |
| <b>Company:</b>  | Mewbourne Oil Company          | <b>TVD Reference:</b>               | WELL @ 3297.0usft (Original Well Elev) |
| <b>Project:</b>  | Eddy County, New Mexico NAD 83 | <b>MD Reference:</b>                | WELL @ 3297.0usft (Original Well Elev) |
| <b>Site:</b>     | Forty Niner Ridge Unit #114H   | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 22, T23S, R30E             | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 20' FNL & 1870' FEL       |                                     |                                        |
| <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) |
|--------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,500.1                             | 0.49            | 110.05      | 10,499.7              | -29.3        | 80.3         | -28.7                   | 0.00                    | 0.00                   | 0.00                  |
| 10,524.4                             | 0.00            | 0.00        | 10,524.0              | -29.4        | 80.4         | -28.7                   | 2.00                    | -2.00                  | 0.00                  |
| <b>KOP: 10' FSL &amp; 1870' FEL</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,550.0                             | 2.56            | 0.00        | 10,549.6              | -28.8        | 80.4         | -28.2                   | 10.00                   | 10.00                  | 0.00                  |
| 10,600.0                             | 7.56            | 0.00        | 10,599.4              | -24.4        | 80.4         | -23.8                   | 10.00                   | 10.00                  | 0.00                  |
| 10,650.0                             | 12.56           | 0.00        | 10,648.6              | -15.6        | 80.4         | -15.0                   | 10.00                   | 10.00                  | 0.00                  |
| 10,700.0                             | 17.56           | 0.00        | 10,696.9              | -2.7         | 80.4         | -2.0                    | 10.00                   | 10.00                  | 0.00                  |
| 10,750.0                             | 22.56           | 0.00        | 10,743.9              | 14.5         | 80.4         | 15.1                    | 10.00                   | 10.00                  | 0.00                  |
| 10,800.0                             | 27.56           | 0.00        | 10,789.1              | 35.7         | 80.4         | 36.3                    | 10.00                   | 10.00                  | 0.00                  |
| 10,850.0                             | 32.56           | 0.00        | 10,832.4              | 60.7         | 80.4         | 61.3                    | 10.00                   | 10.00                  | 0.00                  |
| 10,900.0                             | 37.56           | 0.00        | 10,873.3              | 89.4         | 80.4         | 90.0                    | 10.00                   | 10.00                  | 0.00                  |
| 10,950.0                             | 42.56           | 0.00        | 10,911.6              | 121.6        | 80.4         | 122.2                   | 10.00                   | 10.00                  | 0.00                  |
| 11,000.0                             | 47.56           | 0.00        | 10,946.9              | 157.0        | 80.4         | 157.6                   | 10.00                   | 10.00                  | 0.00                  |
| 11,050.0                             | 52.56           | 0.00        | 10,979.0              | 195.3        | 80.4         | 195.9                   | 10.00                   | 10.00                  | 0.00                  |
| 11,100.0                             | 57.56           | 0.00        | 11,007.6              | 236.3        | 80.4         | 236.9                   | 10.00                   | 10.00                  | 0.00                  |
| 11,150.0                             | 62.56           | 0.00        | 11,032.5              | 279.6        | 80.4         | 280.2                   | 10.00                   | 10.00                  | 0.00                  |
| 11,161.7                             | 63.73           | 0.00        | 11,037.8              | 290.0        | 80.4         | 290.6                   | 10.00                   | 10.00                  | 0.00                  |
| <b>FTP: 330' FSL &amp; 1870' FEL</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,200.0                             | 67.56           | 0.00        | 11,053.6              | 324.9        | 80.4         | 325.5                   | 10.00                   | 10.00                  | 0.00                  |
| 11,250.0                             | 72.56           | 0.00        | 11,070.7              | 371.9        | 80.4         | 372.5                   | 10.00                   | 10.00                  | 0.00                  |
| 11,300.0                             | 77.56           | 0.00        | 11,083.5              | 420.2        | 80.4         | 420.8                   | 10.00                   | 10.00                  | 0.00                  |
| 11,350.0                             | 82.56           | 0.00        | 11,092.2              | 469.4        | 80.4         | 470.0                   | 10.00                   | 10.00                  | 0.00                  |
| 11,400.0                             | 87.56           | 0.00        | 11,096.5              | 519.2        | 80.4         | 519.8                   | 10.00                   | 10.00                  | 0.00                  |
| 11,426.7                             | 90.23           | 0.00        | 11,097.0              | 545.9        | 80.4         | 546.5                   | 10.00                   | 10.00                  | 0.00                  |
| <b>LP: 586' FSL &amp; 1870' FEL</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,500.0                             | 90.23           | 0.00        | 11,096.7              | 619.2        | 80.4         | 619.8                   | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                             | 90.23           | 0.00        | 11,096.3              | 719.2        | 80.4         | 719.8                   | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                             | 90.23           | 0.00        | 11,095.9              | 819.2        | 80.4         | 819.8                   | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                             | 90.23           | 0.00        | 11,095.5              | 919.2        | 80.4         | 919.8                   | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                             | 90.23           | 0.00        | 11,095.1              | 1,019.2      | 80.4         | 1,019.8                 | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0                             | 90.23           | 0.00        | 11,094.7              | 1,119.2      | 80.4         | 1,119.8                 | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0                             | 90.23           | 0.00        | 11,094.3              | 1,219.2      | 80.4         | 1,219.8                 | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0                             | 90.23           | 0.00        | 11,093.9              | 1,319.2      | 80.4         | 1,319.8                 | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0                             | 90.23           | 0.00        | 11,093.5              | 1,419.2      | 80.4         | 1,419.8                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0                             | 90.23           | 0.00        | 11,093.1              | 1,519.2      | 80.4         | 1,519.8                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0                             | 90.23           | 0.00        | 11,092.7              | 1,619.2      | 80.4         | 1,619.8                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0                             | 90.23           | 0.00        | 11,092.3              | 1,719.2      | 80.4         | 1,719.8                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0                             | 90.23           | 0.00        | 11,091.9              | 1,819.2      | 80.4         | 1,819.7                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0                             | 90.23           | 0.00        | 11,091.5              | 1,919.2      | 80.4         | 1,919.7                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0                             | 90.23           | 0.00        | 11,091.1              | 2,019.2      | 80.4         | 2,019.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                             | 90.23           | 0.00        | 11,090.7              | 2,119.2      | 80.4         | 2,119.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                             | 90.23           | 0.00        | 11,090.3              | 2,219.2      | 80.4         | 2,219.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0                             | 90.23           | 0.00        | 11,089.9              | 2,319.2      | 80.4         | 2,319.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0                             | 90.23           | 0.00        | 11,089.5              | 2,419.2      | 80.4         | 2,419.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0                             | 90.23           | 0.00        | 11,089.1              | 2,519.2      | 80.4         | 2,519.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0                             | 90.23           | 0.00        | 11,088.7              | 2,619.2      | 80.4         | 2,619.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0                             | 90.23           | 0.00        | 11,088.3              | 2,719.2      | 80.4         | 2,719.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0                             | 90.23           | 0.00        | 11,087.9              | 2,819.2      | 80.4         | 2,819.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0                             | 90.23           | 0.00        | 11,087.5              | 2,919.2      | 80.4         | 2,919.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0                             | 90.23           | 0.00        | 11,087.1              | 3,019.2      | 80.4         | 3,019.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0                             | 90.23           | 0.00        | 11,086.7              | 3,119.2      | 80.4         | 3,119.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0                             | 90.23           | 0.00        | 11,086.3              | 3,219.2      | 80.4         | 3,219.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0                             | 90.23           | 0.00        | 11,085.9              | 3,319.2      | 80.4         | 3,319.7                 | 0.00                    | 0.00                   | 0.00                  |

## Planning Report

|                  |                                |                                     |                                        |
|------------------|--------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                          | <b>Local Co-ordinate Reference:</b> | Site Forty Niner Ridge Unit #114H      |
| <b>Company:</b>  | Mewbourne Oil Company          | <b>TVD Reference:</b>               | WELL @ 3297.0usft (Original Well Elev) |
| <b>Project:</b>  | Eddy County, New Mexico NAD 83 | <b>MD Reference:</b>                | WELL @ 3297.0usft (Original Well Elev) |
| <b>Site:</b>     | Forty Niner Ridge Unit #114H   | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 22, T23S, R30E             | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 20' FNL & 1870' FEL       |                                     |                                        |
| <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) |
| 14,300.0              | 90.23           | 0.00        | 11,085.5              | 3,419.2      | 80.4         | 3,419.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 90.23           | 0.00        | 11,085.1              | 3,519.2      | 80.4         | 3,519.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 90.23           | 0.00        | 11,084.7              | 3,619.2      | 80.4         | 3,619.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 90.23           | 0.00        | 11,084.3              | 3,719.2      | 80.4         | 3,719.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0              | 90.23           | 0.00        | 11,083.9              | 3,819.2      | 80.4         | 3,819.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 90.23           | 0.00        | 11,083.5              | 3,919.2      | 80.4         | 3,919.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 90.23           | 0.00        | 11,083.1              | 4,019.2      | 80.4         | 4,019.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 90.23           | 0.00        | 11,082.7              | 4,119.2      | 80.4         | 4,119.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0              | 90.23           | 0.00        | 11,082.3              | 4,219.2      | 80.4         | 4,219.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 90.23           | 0.00        | 11,081.9              | 4,319.2      | 80.4         | 4,319.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 90.23           | 0.00        | 11,081.5              | 4,419.2      | 80.4         | 4,419.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0              | 90.23           | 0.00        | 11,081.1              | 4,519.2      | 80.4         | 4,519.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0              | 90.23           | 0.00        | 11,080.7              | 4,619.2      | 80.4         | 4,619.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0              | 90.23           | 0.00        | 11,080.3              | 4,719.2      | 80.4         | 4,719.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0              | 90.23           | 0.00        | 11,079.9              | 4,819.2      | 80.4         | 4,819.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0              | 90.23           | 0.00        | 11,079.5              | 4,919.2      | 80.4         | 4,919.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0              | 90.23           | 0.00        | 11,079.1              | 5,019.2      | 80.4         | 5,019.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,000.0              | 90.23           | 0.00        | 11,078.7              | 5,119.2      | 80.4         | 5,119.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,100.0              | 90.23           | 0.00        | 11,078.3              | 5,219.2      | 80.4         | 5,219.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,200.0              | 90.23           | 0.00        | 11,077.9              | 5,319.2      | 80.4         | 5,319.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,300.0              | 90.23           | 0.00        | 11,077.5              | 5,419.2      | 80.4         | 5,419.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,400.0              | 90.23           | 0.00        | 11,077.1              | 5,519.2      | 80.4         | 5,519.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,500.0              | 90.23           | 0.00        | 11,076.7              | 5,619.2      | 80.4         | 5,619.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,600.0              | 90.23           | 0.00        | 11,076.3              | 5,719.2      | 80.4         | 5,719.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,700.0              | 90.23           | 0.00        | 11,075.9              | 5,819.2      | 80.4         | 5,819.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,800.0              | 90.23           | 0.00        | 11,075.5              | 5,919.2      | 80.4         | 5,919.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,900.0              | 90.23           | 0.00        | 11,075.1              | 6,019.2      | 80.4         | 6,019.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,000.0              | 90.23           | 0.00        | 11,074.7              | 6,119.2      | 80.4         | 6,119.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,100.0              | 90.23           | 0.00        | 11,074.3              | 6,219.2      | 80.4         | 6,219.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,200.0              | 90.23           | 0.00        | 11,073.9              | 6,319.2      | 80.4         | 6,319.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,300.0              | 90.23           | 0.00        | 11,073.5              | 6,419.2      | 80.4         | 6,419.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,400.0              | 90.23           | 0.00        | 11,073.1              | 6,519.1      | 80.4         | 6,519.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,500.0              | 90.23           | 0.00        | 11,072.7              | 6,619.1      | 80.4         | 6,619.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,600.0              | 90.23           | 0.00        | 11,072.3              | 6,719.1      | 80.4         | 6,719.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,700.0              | 90.23           | 0.00        | 11,071.9              | 6,819.1      | 80.4         | 6,819.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,800.0              | 90.23           | 0.00        | 11,071.5              | 6,919.1      | 80.4         | 6,919.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,900.0              | 90.23           | 0.00        | 11,071.1              | 7,019.1      | 80.4         | 7,019.6                 | 0.00                    | 0.00                   | 0.00                  |
| 18,000.0              | 90.23           | 0.00        | 11,070.7              | 7,119.1      | 80.4         | 7,119.6                 | 0.00                    | 0.00                   | 0.00                  |
| 18,100.0              | 90.23           | 0.00        | 11,070.3              | 7,219.1      | 80.4         | 7,219.5                 | 0.00                    | 0.00                   | 0.00                  |
| 18,200.0              | 90.23           | 0.00        | 11,069.9              | 7,319.1      | 80.4         | 7,319.5                 | 0.00                    | 0.00                   | 0.00                  |
| 18,300.0              | 90.23           | 0.00        | 11,069.5              | 7,419.1      | 80.4         | 7,419.5                 | 0.00                    | 0.00                   | 0.00                  |
| 18,400.0              | 90.23           | 0.00        | 11,069.1              | 7,519.1      | 80.4         | 7,519.5                 | 0.00                    | 0.00                   | 0.00                  |
| 18,500.0              | 90.23           | 0.00        | 11,068.7              | 7,619.1      | 80.4         | 7,619.5                 | 0.00                    | 0.00                   | 0.00                  |
| 18,600.0              | 90.23           | 0.00        | 11,068.3              | 7,719.1      | 80.4         | 7,719.5                 | 0.00                    | 0.00                   | 0.00                  |
| 18,700.0              | 90.23           | 0.00        | 11,067.9              | 7,819.1      | 80.4         | 7,819.5                 | 0.00                    | 0.00                   | 0.00                  |
| 18,800.0              | 90.23           | 0.00        | 11,067.5              | 7,919.1      | 80.4         | 7,919.5                 | 0.00                    | 0.00                   | 0.00                  |
| 18,900.0              | 90.23           | 0.00        | 11,067.1              | 8,019.1      | 80.4         | 8,019.5                 | 0.00                    | 0.00                   | 0.00                  |
| 19,000.0              | 90.23           | 0.00        | 11,066.7              | 8,119.1      | 80.4         | 8,119.5                 | 0.00                    | 0.00                   | 0.00                  |
| 19,100.0              | 90.23           | 0.00        | 11,066.3              | 8,219.1      | 80.4         | 8,219.5                 | 0.00                    | 0.00                   | 0.00                  |
| 19,200.0              | 90.23           | 0.00        | 11,065.9              | 8,319.1      | 80.4         | 8,319.5                 | 0.00                    | 0.00                   | 0.00                  |
| 19,300.0              | 90.23           | 0.00        | 11,065.5              | 8,419.1      | 80.4         | 8,419.5                 | 0.00                    | 0.00                   | 0.00                  |
| 19,400.0              | 90.23           | 0.00        | 11,065.1              | 8,519.1      | 80.4         | 8,519.5                 | 0.00                    | 0.00                   | 0.00                  |
| 19,500.0              | 90.23           | 0.00        | 11,064.7              | 8,619.1      | 80.4         | 8,619.5                 | 0.00                    | 0.00                   | 0.00                  |
| 19,600.0              | 90.23           | 0.00        | 11,064.2              | 8,719.1      | 80.4         | 8,719.5                 | 0.00                    | 0.00                   | 0.00                  |

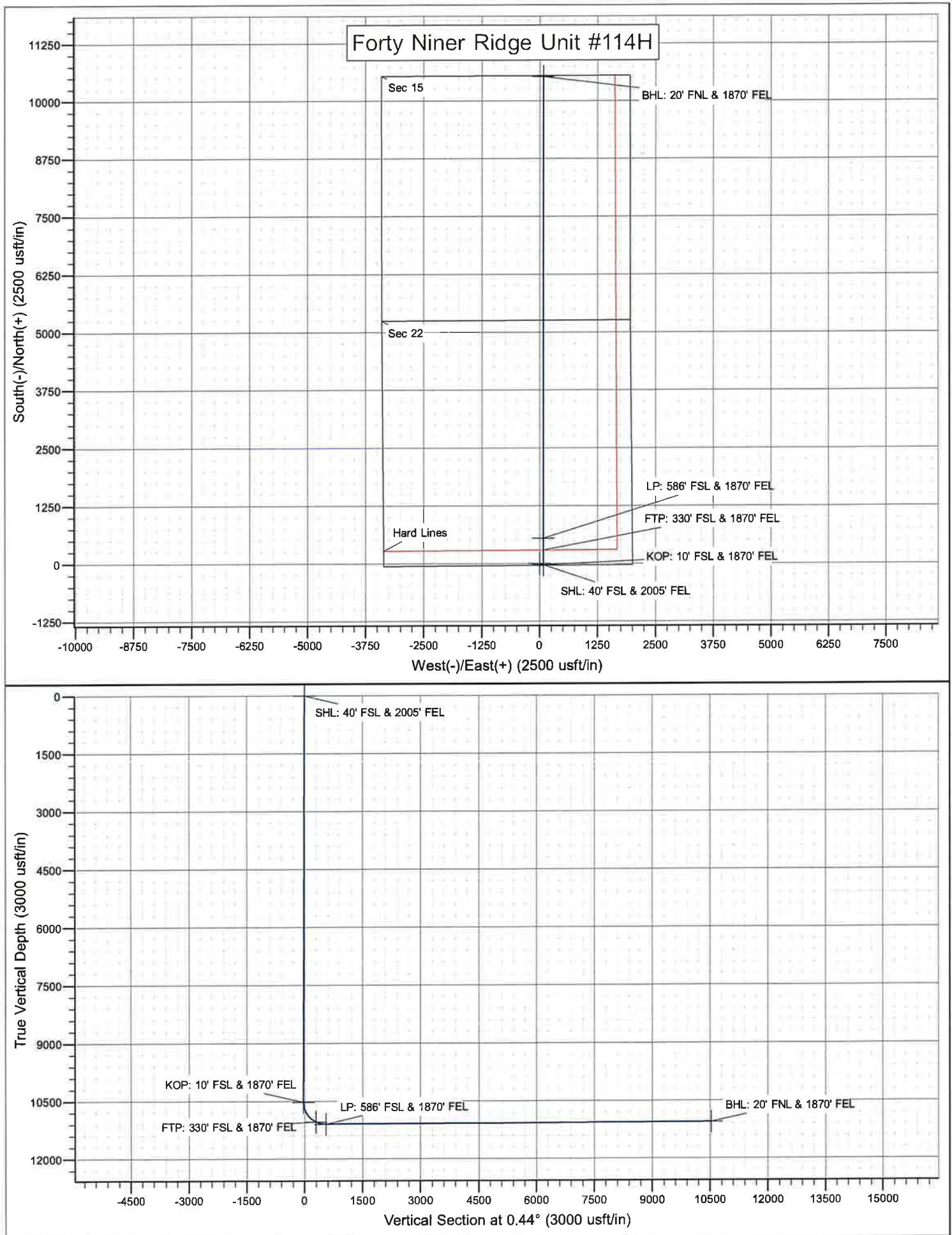
## Planning Report

|           |                                |                              |                                        |
|-----------|--------------------------------|------------------------------|----------------------------------------|
| Database: | Hobbs                          | Local Co-ordinate Reference: | Site Forty Niner Ridge Unit #114H      |
| Company:  | Mewbourne Oil Company          | TVD Reference:               | WELL @ 3297.0usft (Original Well Elev) |
| Project:  | Eddy County, New Mexico NAD 83 | MD Reference:                | WELL @ 3297.0usft (Original Well Elev) |
| Site:     | Forty Niner Ridge Unit #114H   | North Reference:             | Grid                                   |
| Well:     | Sec 22, T23S, R30E             | Survey Calculation Method:   | Minimum Curvature                      |
| Wellbore: | BHL: 20' FNL & 1870' FEL       |                              |                                        |
| Design:   | Design #1                      |                              |                                        |

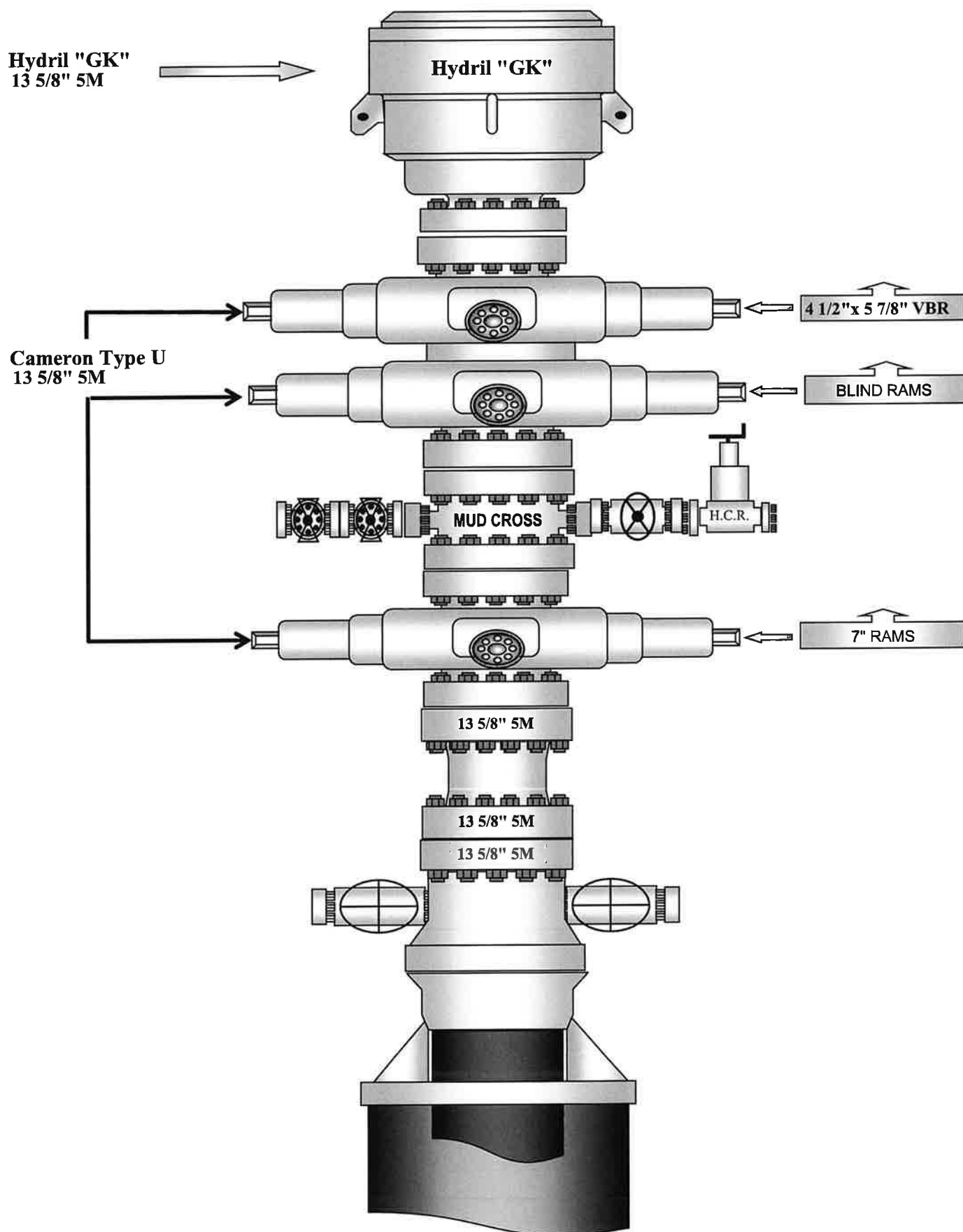
  

| Planned Survey           |                 |             |                       |              |              |                         |                         |                        |                       |  |
|--------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| 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) |  |
| 19,700.0                 | 90.23           | 0.00        | 11,063.8              | 8,819.1      | 80.4         | 8,819.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 19,800.0                 | 90.23           | 0.00        | 11,063.4              | 8,919.1      | 80.4         | 8,919.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 19,900.0                 | 90.23           | 0.00        | 11,063.0              | 9,019.1      | 80.4         | 9,019.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,000.0                 | 90.23           | 0.00        | 11,062.6              | 9,119.1      | 80.4         | 9,119.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,100.0                 | 90.23           | 0.00        | 11,062.2              | 9,219.1      | 80.4         | 9,219.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,200.0                 | 90.23           | 0.00        | 11,061.8              | 9,319.1      | 80.4         | 9,319.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,300.0                 | 90.23           | 0.00        | 11,061.4              | 9,419.1      | 80.4         | 9,419.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,400.0                 | 90.23           | 0.00        | 11,061.0              | 9,519.1      | 80.4         | 9,519.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,500.0                 | 90.23           | 0.00        | 11,060.6              | 9,619.1      | 80.4         | 9,619.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,600.0                 | 90.23           | 0.00        | 11,060.2              | 9,719.1      | 80.4         | 9,719.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,700.0                 | 90.23           | 0.00        | 11,059.8              | 9,819.1      | 80.4         | 9,819.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,800.0                 | 90.23           | 0.00        | 11,059.4              | 9,919.1      | 80.4         | 9,919.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 20,900.0                 | 90.23           | 0.00        | 11,059.0              | 10,019.1     | 80.4         | 10,019.4                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,000.0                 | 90.23           | 0.00        | 11,058.6              | 10,119.1     | 80.4         | 10,119.4                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,100.0                 | 90.23           | 0.00        | 11,058.2              | 10,219.1     | 80.4         | 10,219.4                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,200.0                 | 90.23           | 0.00        | 11,057.8              | 10,319.1     | 80.4         | 10,319.4                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,300.0                 | 90.23           | 0.00        | 11,057.4              | 10,419.1     | 80.4         | 10,419.4                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,409.2                 | 90.23           | 0.00        | 11,057.0              | 10,528.3     | 80.4         | 10,528.6                | 0.00                    | 0.00                   | 0.00                  |  |
| BHL: 20' FNL & 1870' FEL |                 |             |                       |              |              |                         |                         |                        |                       |  |

| 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: 40' FSL & 2005' FE<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 0.0        | 0.0          | 0.0          | 467,113.70      | 685,525.40     | 32.2833077 | -103.8667550 |
| KOP: 10' FSL & 1870' FI<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 10,524.0   | -29.4        | 80.4         | 467,084.35      | 685,605.81     | 32.2832261 | -103.8664952 |
| FTP: 330' FSL & 1870' F<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 11,037.8   | 290.0        | 80.4         | 467,403.70      | 685,605.81     | 32.2841039 | -103.8664907 |
| BHL: 20' FNL & 1870' FE<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 11,057.0   | 10,528.3     | 80.4         | 477,642.03      | 685,605.81     | 32.3122469 | -103.8663465 |
| LP: 586' FSL & 1870' FE<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 11,097.0   | 545.9        | 80.4         | 467,659.60      | 685,605.81     | 32.2848073 | -103.8664871 |

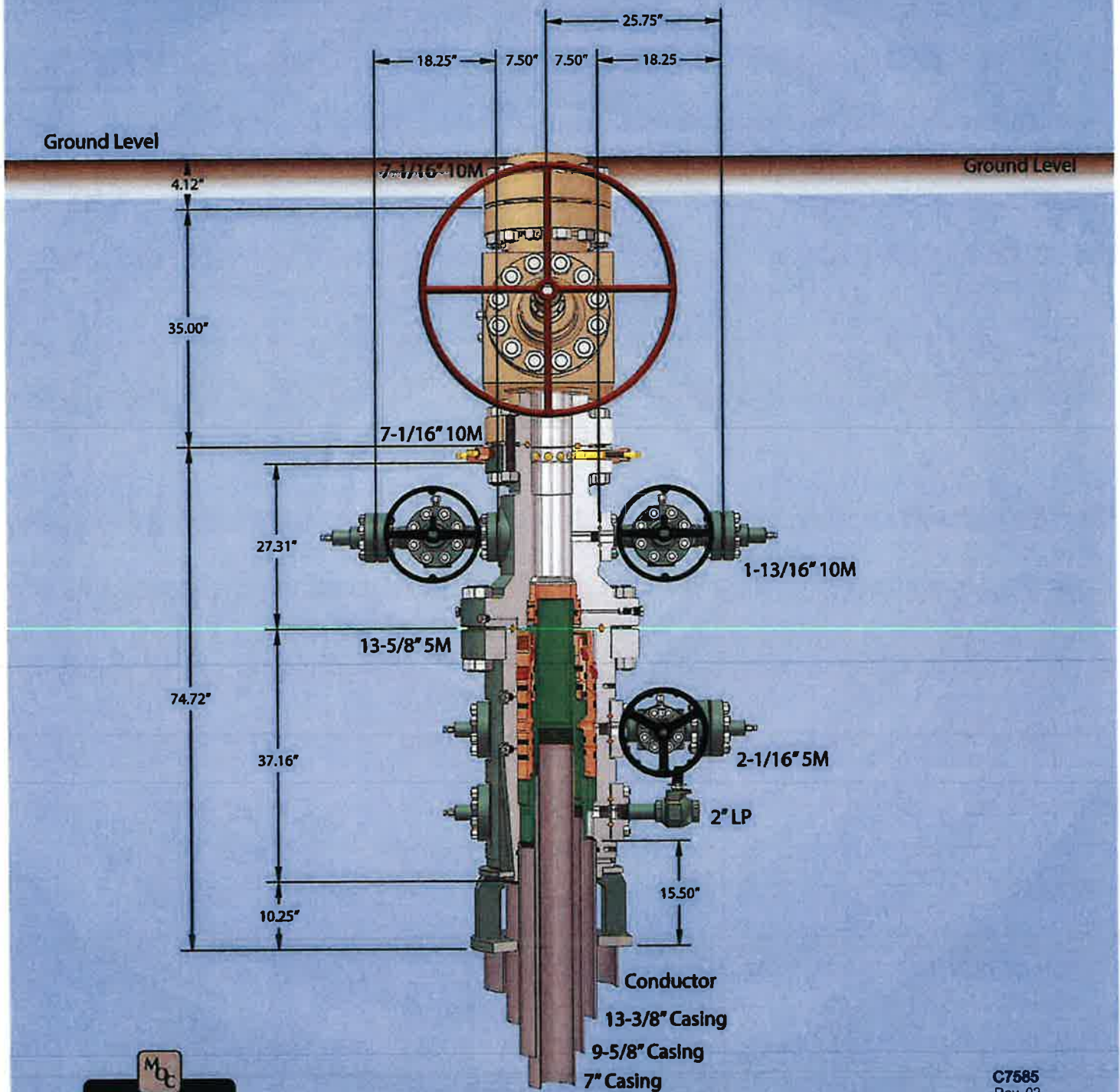


5M BOPE Schematic





# 13-5/8" MN-DS Wellhead System



C7585  
Rev. 02

NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

*Capping Hanger 57" conductor cut-off*  
*79*

**Note:** All valves & lines on choke manifold are 4" unless otherwise noted. Exact manifold configuration may vary.





U. S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## Sundry Print Report

09/21/2021

|                                          |                                                                               |                                          |
|------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------|
| <b>Well Name:</b> FORTY NINER RIDGE UNIT | <b>Well Location:</b> T23S / R30E / SEC 22 / SWSE / 32.2833078 / -103.8667552 | <b>County or Parish/State:</b> EDDY / NM |
| <b>Well Number:</b> 114H                 | <b>Type of Well:</b> CONVENTIONAL GAS WELL                                    | <b>Allottee or Tribe Name:</b>           |
| <b>Lease Number:</b> NMNM0531277         | <b>Unit or CA Name:</b> FORTY NINER RIDGE UNIT                                | <b>Unit or CA Number:</b> NMNM70951X     |
| <b>US Well Number:</b> 3001547452        | <b>Well Status:</b> Drilling Well                                             | <b>Operator:</b> MEWBOURNE OIL COMPANY   |

### Notice of Intent

Sundry ID: 2632653

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 09/03/2021

Time Sundry Submitted: 01:25

Date proposed operation will begin: 09/03/2021

**Procedure Description:** Mewbourne Oil Company request approval to make the following changes to the approved APD: - Change BHL from 330' FNL & 1650' FEL Sec 15, T23S, R30E, to 20' FNL & 1870' FEL Sec 15, T23S, R30E. - Change casing and cement design as detailed in the attachment - Change BOP from 10M to 5M Please contact Mike Loy with any questions.

### Surface Disturbance

Is any additional surface disturbance proposed?: No

### NOI Attachments

#### Procedure Description

Forty\_Niner\_Ridge\_Unit\_114H\_Signed\_C102\_20210903132412.pdf  
 Forty\_Niner\_Ridge\_Unit\_114H\_Csg\_Assumptions\_20210903132412.pdf  
 Forty\_Niner\_Ridge\_Unit\_114H\_Dir\_Plot\_20210903132412.pdf  
 Forty\_Niner\_Ridge\_Unit\_114H\_Dir\_Plan\_20210903132411.pdf  
 Forty\_Niner\_Ridge\_Unit\_114H\_5M\_BOPE\_Schematic\_20210903132350.pdf  
 Forty\_Niner\_Ridge\_Unit\_114H\_5M\_Mutli\_Bowl\_WH\_20210903132350.pdf  
 Forty\_Niner\_Ridge\_Unit\_114H\_5M\_BOPE\_Choke\_Diagram\_20210903132338.pdf

|                                          |                                                                               |                                          |
|------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------|
| <b>Well Name:</b> FORTY NINER RIDGE UNIT | <b>Well Location:</b> T23S / R30E / SEC 22 / SWSE / 32.2833078 / -103.8667552 | <b>County or Parish/State:</b> EDDY / NM |
| <b>Well Number:</b> 114H                 | <b>Type of Well:</b> CONVENTIONAL GAS WELL                                    | <b>Allottee or Tribe Name:</b>           |
| <b>Lease Number:</b> NMNM0531277         | <b>Unit or CA Name:</b> FORTY NINER RIDGE UNIT                                | <b>Unit or CA Number:</b> NMNM70951X     |
| <b>US Well Number:</b> 3001547452        | <b>Well Status:</b> Drilling Well                                             | <b>Operator:</b> MEWBOURNE OIL COMPANY   |

### Conditions of Approval

#### Specialist Review

FORTY\_NINER\_RIDGE\_UNIT\_114H\_Drilling\_Sundry\_2632653\_COA\_OTA\_20210913105448.pdf

### Operator Certification

*I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.*

**Operator Electronic Signature:** BRADLEY BISHOP

**Signed on:** SEP 03, 2021 01:24 PM

**Name:** MEWBOURNE OIL COMPANY

**Title:** Regulatory

**Street Address:** PO Box 5270

**City:** Hobbs

**State:** NM

**Phone:** (575) 393-5905

**Email address:** bbishop@mewbourne.com

### Field Representative

**Representative Name:** Mike Loy

**Street Address:**

**City:** Hobbs

**State:** NM

**Zip:** 88240

**Phone:** (575)263-4941

**Email address:** mloy@mewbourne.com

### BLM Point of Contact

**BLM POC Name:** AJIBOLA OLABODE

**BLM POC Title:** Engineer

**BLM POC Phone:** 5752342231

**BLM POC Email Address:** OAJIBOLAEIT@BLM.GOV

**Disposition:** Approved

**Disposition Date:** 09/13/2021

**Signature:** Olabode Thomas Ajibola

**Mewbourne Oil Company, Forty Niner Ridge Unit #114H**  
**Sec 22, T23S, R30E**  
**SHL: 40' FSL & 2005' FEL, Sec 22**  
**BHL: 20' FNL & 1870' FEL, Sec 15**

**Casing Program**

| Hole Size                 | Casing Interval |         | Csg. Size | Weight (lbs) | Grade  | Conn. | SF Collapse | SF Burst | SF Jt Tension      | SF Body Tension    |
|---------------------------|-----------------|---------|-----------|--------------|--------|-------|-------------|----------|--------------------|--------------------|
|                           | From            | To      |           |              |        |       |             |          |                    |                    |
| 17.5"                     | 0'              | 425'    | 13.375"   | 48           | H40    | STC   | 3.96        | 8.90     | 15.78              | 26.52              |
| 12.25"                    | 0'              | 3725'   | 9.625"    | 40           | J55    | LTC   | 1.33        | 2.04     | 3.48               | 4.23               |
| 8.75"                     | 0'              | 11,427' | 7"        | 26           | HCP110 | LTC   | 1.39        | 1.78     | 2.33               | 2.87               |
| 6.125"                    | 10,525'         | 21,413' | 4.5"      | 13.5         | P110   | LTC   | 1.54        | 1.79     | 2.30               | 2.87               |
| BLM Minimum Safety Factor |                 |         |           |              |        |       | 1.125       | 1        | 1.6 Dry<br>1.8 Wet | 1.6 Dry<br>1.8 Wet |

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h  
 Must have table for contingency casing

|                                                                                                                                                  | Y or N |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Is casing new? If used, attach certification as required in Onshore Order #1                                                                     | Y      |
| Is casing API approved? If no, attach casing specification sheet.                                                                                | Y      |
| Is premium or uncommon casing planned? If yes attach casing specification sheet.                                                                 | N      |
| Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria). | Y      |
| Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?                             | Y      |
| Is well located within Capitan Reef?                                                                                                             | N      |
| If yes, does production casing cement tie back a minimum of 50' above the Reef?                                                                  |        |
| Is well within the designated 4 string boundary.                                                                                                 |        |
| Is well located in SOPA but not in R-111-P?                                                                                                      | N      |
| If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?                       |        |
| Is well located in R-111-P and SOPA?                                                                                                             | Y      |
| If yes, are the first three strings cemented to surface?                                                                                         | Y      |
| Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?                                                                               | Y      |
| Is well located in high Cave/Karst?                                                                                                              | Y      |
| If yes, are there two strings cemented to surface?                                                                                               | Y      |
| (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?                                                           |        |
| Is well located in critical Cave/Karst?                                                                                                          | N      |
| If yes, are there three strings cemented to surface?                                                                                             |        |

**Mewbourne Oil Company, Forty Niner Ridge Unit #114H**  
**Sec 22, T23S, R30E**  
**SHL: 40' FSL & 2005' FEL, Sec 22**  
**BHL: 20' FNL & 1870' FEL, Sec 15**

**Cementing Program**

| Casing                   | # Sks | Wt. lb/gal | Yld ft3/sack | H <sub>2</sub> O gal/sk | 500# Comp. Strength (hours) | Slurry Description                                                                         |
|--------------------------|-------|------------|--------------|-------------------------|-----------------------------|--------------------------------------------------------------------------------------------|
| Surf.                    | 155   | 12.5       | 2.12         | 11                      | 10                          | Lead: Class C + Salt + Gel + Extender + LCM                                                |
|                          | 200   | 14.8       | 1.34         | 6.3                     | 8                           | Tail: Class C + Retarder                                                                   |
| Inter                    | 580   | 12.5       | 2.12         | 11                      | 9                           | Lead: Class C + Salt + Gel + Extender + LCM                                                |
|                          | 200   | 14.8       | 1.34         | 6.3                     | 8                           | Tail: Class C + Retarder                                                                   |
| Prod 1 <sup>st</sup> stg | 460   | 12.5       | 2.12         | 11                      | 9                           | Lead: Class C + Salt + Gel + Extender + LCM                                                |
|                          | 400   | 15.6       | 1.18         | 5.2                     | 10                          | Tail: Class H + Retarder + Fluid Loss + Defoamer                                           |
| ECP/DV Tool @ 3775'      |       |            |              |                         |                             |                                                                                            |
| Prod 2 <sup>nd</sup> stg | 230   | 12.5       | 2.12         | 11                      | 9                           | Lead: Class C + Salt + Gel + Extender + LCM                                                |
|                          | 200   | 14.8       | 1.34         | 6.3                     | 8                           | Tail: Class C + Retarder                                                                   |
| Liner                    | 440   | 11.2       | 2.97         | 18                      | 16                          | Class H + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent |

A copy of cement test will be available on location at time of cement job providing pump times & compressive strengths.

| Casing String | TOC     | % Excess |
|---------------|---------|----------|
| Surface       | 0'      | 100%     |
| Intermediate  | 0'      | 25%      |
| Production    | 0'      | 25%      |
| Liner         | 10,525' | 25%      |

**Mud Program**

| TVD     |         | Type      | Weight (ppg) | Viscosity | Water Loss |
|---------|---------|-----------|--------------|-----------|------------|
| From    | To      |           |              |           |            |
| 0'      | 425'    | Spud Mud  | 8.6-8.8      | 28-34     | N/C        |
| 425'    | 3725'   | Brine     | 10.0         | 28-34     | N/C        |
| 3725'   | 11,057' | Cut Brine | 8.6-9.7      | 28-34     | N/C        |
| 11,057' | 11,097' | OBM       | 10.0-12.0    | 30-40     | <10cc      |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

|                                                         |                             |
|---------------------------------------------------------|-----------------------------|
| What will be used to monitor the loss or gain of fluid? | Pason/PVT/Visual Monitoring |
|---------------------------------------------------------|-----------------------------|

**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**

COMMENTS  
  
Action 50732

COMMENTS

|                                                                   |                                                      |
|-------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>MEWBOURNE OIL CO<br>P.O. Box 5270<br>Hobbs, NM 88241 | OGRID:<br>14744                                      |
|                                                                   | Action Number:<br>50732                              |
|                                                                   | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

COMMENTS

| Created By | Comment                 | Comment Date |
|------------|-------------------------|--------------|
| kpickford  | KP GEO Review 9/23/2021 | 9/23/2021    |

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CONDITIONS

Action 50732

**CONDITIONS**

|                                                                   |                                                      |
|-------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>MEWBOURNE OIL CO<br>P.O. Box 5270<br>Hobbs, NM 88241 | OGRID:<br>14744                                      |
|                                                                   | Action Number:<br>50732                              |
|                                                                   | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

**CONDITIONS**

| Created By | Condition                                                           | Condition Date |
|------------|---------------------------------------------------------------------|----------------|
| kpickford  | Adhere to previous NMOCD Conditions of Approval                     | 9/23/2021      |
| kpickford  | If LTP is within 330' of spacing unit boundary, an NSL is required. | 9/23/2021      |