



# PHOENIX

TECHNOLOGY SERVICES USA INC.

3610 Elkins Road, Midland, Texas 79705 T. 432.684.0057 F. 432.686.7964 www.phxtech.com

30-025-42911

Celebrating 20 Years of Focused Solutions

**HOBBS OCD**

February 26, 2018

**MAR 05 2018**

**RECEIVED**

Oil Conservation Division  
State of New Mexico  
1625 N. French Drive  
Hobbs, New Mexico 88240

Dear District 1 - Hobbs

Attention: Regulatory Department

Re: Mewbourne Oil  
Red Hills West 22 W1DM Federal Com 3H  
Lea County, New Mexico  
API #30-025-42911  
Job No. 62418

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

| Name & Title of Surveyor | Drain Hole Number | Surveyed Depths |     | Dates Performed |         | Type of Survey |
|--------------------------|-------------------|-----------------|-----|-----------------|---------|----------------|
|                          |                   | From            | To  | Start           | End     |                |
| Andy Askew               | 3H                | 0               | 555 | 2/25/18         | 2/25/18 | Gyro           |

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

Best Regards,

*Brittany Carley*

Brittany Carley  
Operations Administrator

# SURVEY CERTIFICATION FORM

3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964



**PHOENIX**  
TECHNOLOGY SERVICES

Company: Mewbourne

Job #: 62418

Well Name: Red Hills West 22 W1DM Federal Com 3H

County/State: Lea/ NM

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-42911

## TIE-IN DATA

| Measure Depth (ft) | Vertical Depth (ft) | Inclination (°) | Azimuth (°) | N-S Coordinates | E-W Coordinates | Data Source |
|--------------------|---------------------|-----------------|-------------|-----------------|-----------------|-------------|
| 0                  | 0                   | 0               | 0           | 0               | 0               | Surface     |

## First Survey

| Date       | Depth (ft) | Inclination (°) | Azimuth (°) |
|------------|------------|-----------------|-------------|
| 2018-02-25 | 0          | 0               | 0           |

## Last Survey

| Date       | Depth (ft) | Inclination (°) | Azimuth (°) |
|------------|------------|-----------------|-------------|
| 2018-02-25 | 555        | 0.49            | 210.58      |

## Projected TD Survey

| Date | Depth (ft) | Inclination (°) | Azimuth (°) |
|------|------------|-----------------|-------------|
| 0    | 0          | 0               | 0           |

| Grid Correction |
|-----------------|
| -0.35           |

Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

To the best of my knowledge I certify this survey data to be correct and true

Date: 2/25/18

Print Name: Andy Askew

Signature:



Company: Mewbourne  
 Well: Red Hills West 22 W1DM Federal Com 3H  
 Location: Lea Co., NM  
 Rig: Patterson 242

Job Number: 62418  
 Grid Corr.: -0.38  
 Lat: 32.03  
 Long: -103.66

Date: 02-25-18  
 Calculation Method: Minimum Curvature  
 Proposed Azimuth:             
 RKB - MSL in feet: 28.5  
 Tie Into: Surface

| Survey Tool Type               | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|--------------------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                                |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
| Enter Tie-In Survey on Line 10 |                   |                   |               |                    |                          |                       |             |          |               |             |                          |                     |                    |
| FIELD COPY, NON-DEFINITIVE     |                   |                   |               |                    |                          |                       |             |          |               |             |                          |                     |                    |
| TIE IN                         | 0                 |                   |               | 0                  | 0                        | 0                     | 0           | 0        |               |             |                          |                     |                    |
| Gyro                           | 100.00            | 0.75              | 93.44         | 100                | 100.00                   | -0.04                 | 0.04 S      | 0.65 E   | 0.65          | 93.44       | 0.75                     | 0.75                | 93.44              |
|                                | 200.00            | 1.16              | 118.94        | 100                | 199.98                   | -0.57                 | 0.57 S      | 2.19 E   | 2.26          | 104.53      | 0.58                     | 0.41                | 25.50              |
|                                | 300.00            | 0.76              | 155.95        | 100                | 299.97                   | -1.66                 | 1.66 S      | 3.35 E   | 3.74          | 116.42      | 0.72                     | -0.40               | 37.01              |
|                                | 400.00            | 0.32              | 178.78        | 100                | 399.97                   | -2.55                 | 2.55 S      | 3.62 E   | 4.43          | 125.11      | 0.48                     | -0.44               | 22.83              |
|                                | 500.00            | 0.71              | 183.78        | 100                | 499.96                   | -3.45                 | 3.45 S      | 3.59 E   | 4.98          | 133.83      | 0.39                     | 0.39                | 5.00               |
|                                | 555.00            | 0.49              | 210.58        | 55                 | 554.96                   | -3.99                 | 3.99 S      | 3.45 E   | 5.27          | 139.16      | 0.64                     | -0.40               | 48.73              |



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

HOBBS OGD

OCT 30 2015

☐ AMENDED REPORT

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                |                                                                     |                                                               |
|------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------|
| <sup>1</sup> API Number<br><b>70-025-42911</b> | <sup>2</sup> Pool Code<br><b>97983</b>                              | <sup>3</sup> Pool Name<br><b>WC-025 G-08 52532356; LWR BS</b> |
| <sup>4</sup> Property Code<br><b>315630</b>    | <sup>5</sup> Property Name<br><b>RED HILLS WEST 22 B2DM FED COM</b> |                                                               |
| <sup>7</sup> GRID NO.<br><b>14744</b>          | <sup>8</sup> Operator Name<br><b>MEWBOURNE OIL COMPANY</b>          |                                                               |
|                                                |                                                                     | <sup>6</sup> Well Number<br><b>3H</b>                         |
|                                                |                                                                     | <sup>9</sup> Elevation<br><b>3145'</b>                        |

<sup>10</sup> Surface Location

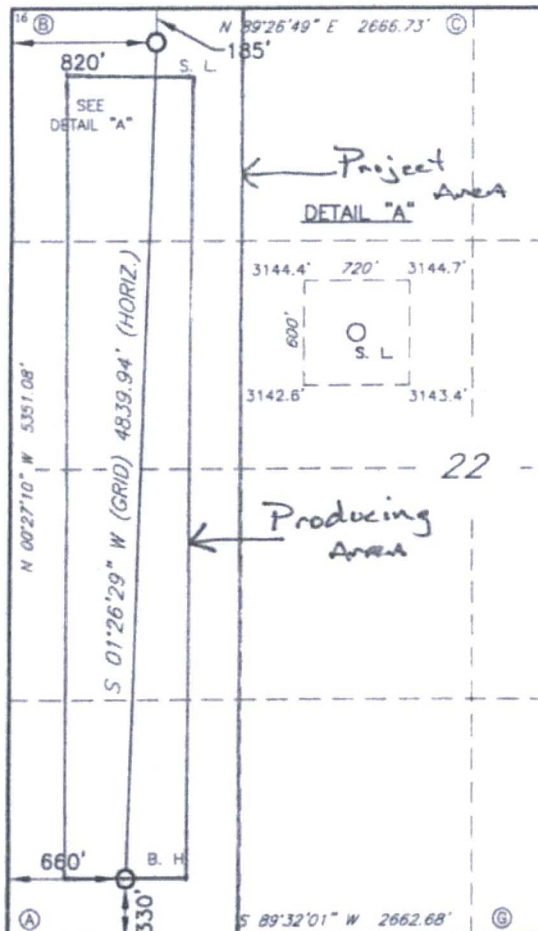
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet From the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| D             | 22      | 26S      | 32E   |         | 185           | NORTH            | 820           | WEST           | LEA    |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| M             | 22      | 26S      | 32E   |         | 330           | SOUTH            | 660           | WEST           | LEA    |

|                                             |                               |                                  |                         |
|---------------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Disturbed Acres<br><b>160</b> | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|---------------------------------------------|-------------------------------|----------------------------------|-------------------------|

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

|                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><sup>16</sup> <b>GEODETIC DATA</b><br/>NAD 27 GRID - NM EAST</p> <p><b>SURFACE LOCATION</b><br/>N 377072.7 - E 706087.7<br/>LAT: 32.03494329° N<br/>LONG: 103.66827721° W</p> <p><b>BOTTOM HOLE</b><br/>N 372235.2 - E 705966.0</p> <p><b>CORNER DATA</b><br/>NAD 27 GRID - NM EAST</p> <p>A: FOUND BRASS CAP "1939"<br/>N 371899.9 - E 705308.7</p> <p>B: FOUND BRASS CAP "1939"<br/>N 377249.8 - E 705266.4</p> <p>C: FOUND BRASS CAP "1939"<br/>N 377275.6 - E 707932.5</p> <p>D: FOUND BRASS CAP "1939"<br/>N 377296.4 - E 710594.6</p> <p>E: FOUND BRASS CAP "1939"<br/>N 374620.4 - E 710611.8</p> <p>F: FOUND BRASS CAP "1939"<br/>N 371945.5 - E 710630.5</p> <p>G: FOUND BRASS CAP "1939"<br/>N 371921.6 - E 707970.8</p> | <p><sup>17</sup> <b>OPERATOR CERTIFICATION</b><br/>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <b>B. Z. S.</b> Date: <b>7.30.15</b><br/>Printed Name: <b>BRADLEY BISHOP</b></p> <p>E-mail Address: _____</p> |
|                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p><sup>18</sup> <b>SURVEYOR CERTIFICATION</b><br/>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p><b>6-28-2015</b><br/>Date of Survey</p> <p>Signature and Seal of Professional Surveyor: <b>Robert M. Howett</b><br/>19680<br/>Certificate Number</p>                                                                                                                                                                                                                                                               |

RRC - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1506300