



**PHOENIX**

**TECHNOLOGY SERVICES USA INC.**

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

*Celebrating 20 Years of Focused Solutions*

30-025-43903

**HOBBS OCD**

**OCT 01 2018**

September 4, 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  
Pronghorn 15 B3BO Federal No. 1H  
Lea County, New Mexico  
API #30-025-43903  
Job No. 63402

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     |                |
| Oscar Velasquez          | 1H                | 0               | 1,711 | 8/30/18         | 8/30/18 | 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 #: 63402

Well Name: Pronghorn 15 B3BO Federal No.1H

County/State: Lea Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-43903

## TIE-IN DATA

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

## First Survey

| Date       | Depth (ft) | Inclination<br>(°) | Azimuth (°) |
|------------|------------|--------------------|-------------|
| 2018-08-30 | 0          | 0                  | 0           |

## Last Survey

| Date       | Depth (ft) | Inclination<br>(°) | Azimuth (°) |
|------------|------------|--------------------|-------------|
| 2018-08-30 | 1711       | 10.87              | 185.66      |

## Projected TD Survey

| Date | Depth (ft) | Inclination<br>(°) | Azimuth (°) |
|------|------------|--------------------|-------------|
| 0    | 0          | 0                  | 0           |

| Grid<br>Correction |
|--------------------|
| -0.47              |

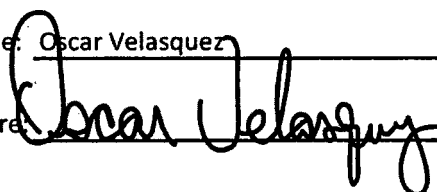
Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

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

Date: 2018-08-30

Print Name: Oscar Velasquez

Signature: 



**PHOENIX**  
TECHNOLOGY SERVICES

Company: Mewbourne  
Well: Pronghorn 15 B3BO Federal No. 1H  
Location: Lea Co., New Mexico  
Rig: Patterson 250

Job Number: 63402  
Grid Corr.: -0.47  
Lat: 32.31  
Long: -103.45

Date: 08-30-18  
Calculation Method: Minimum Curvature  
Proposed Azimuth:   
RKB - MSL in feet: 29ft 2in  
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            | 0.18              | 175.87        | 100                | 100.00                   | -0.16                 | 0.16 S      | 0.01 E   | 0.16          | 175.87      | 0.18                     | 0.18                | 175.87             |
|                                | 200.00            | 0.13              | 131.73        | 100                | 200.00                   | -0.39                 | 0.39 S      | 0.11 E   | 0.40          | 164.58      | 0.13                     | -0.05               | -44.14             |
|                                | 300.00            | 0.09              | 188.59        | 100                | 300.00                   | -0.54                 | 0.54 S      | 0.18 E   | 0.57          | 161.61      | 0.11                     | -0.04               | 56.86              |
|                                | 400.00            | 0.43              | 45.71         | 100                | 400.00                   | -0.36                 | 0.36 S      | 0.44 E   | 0.56          | 129.29      | 0.50                     | 0.34                | -142.88            |
|                                | 500.00            | 0.52              | 61.04         | 100                | 499.99                   | 0.12                  | 0.12 N      | 1.10 E   | 1.11          | 83.58       | 0.15                     | 0.09                | 15.33              |
|                                | 600.00            | 0.43              | 83.90         | 100                | 599.99                   | 0.38                  | 0.38 N      | 1.87 E   | 1.91          | 78.42       | 0.21                     | -0.09               | 22.86              |
|                                | 700.00            | 0.81              | 56.08         | 100                | 699.99                   | 0.82                  | 0.82 N      | 2.83 E   | 2.95          | 73.89       | 0.47                     | 0.38                | -27.82             |
|                                | 800.00            | 0.52              | 88.03         | 100                | 799.98                   | 1.23                  | 1.23 N      | 3.87 E   | 4.06          | 72.41       | 0.46                     | -0.29               | 31.95              |
|                                | 900.00            | 0.60              | 86.01         | 100                | 899.97                   | 1.28                  | 1.28 N      | 4.85 E   | 5.01          | 75.21       | 0.08                     | 0.08                | -2.02              |
|                                | 1000.00           | 1.34              | 137.55        | 100                | 999.96                   | 0.45                  | 0.45 N      | 6.16 E   | 6.18          | 85.79       | 1.07                     | 0.74                | 51.54              |
|                                | 1100.00           | 1.87              | 146.80        | 100                | 1099.92                  | -1.77                 | 1.77 S      | 7.84 E   | 8.04          | 102.75      | 0.59                     | 0.53                | 9.25               |
|                                | 1200.00           | 3.86              | 172.13        | 100                | 1199.79                  | -6.47                 | 6.47 S      | 9.20 E   | 11.25         | 125.14      | 2.31                     | 1.99                | 25.33              |
|                                | 1300.00           | 6.02              | 184.91        | 100                | 1299.42                  | -15.03                | 15.03 S     | 9.21 E   | 17.63         | 148.51      | 2.41                     | 2.16                | 12.78              |
|                                | 1400.00           | 7.91              | 188.82        | 100                | 1398.68                  | -27.06                | 27.06 S     | 7.71 E   | 28.14         | 164.11      | 1.95                     | 1.89                | 3.91               |
|                                | 1500.00           | 10.02             | 190.61        | 100                | 1497.45                  | -42.41                | 42.41 S     | 5.05 E   | 42.71         | 173.21      | 2.13                     | 2.11                | 1.79               |
|                                | 1600.00           | 10.79             | 189.80        | 100                | 1595.81                  | -60.19                | 60.19 S     | 1.85 E   | 60.22         | 178.24      | 0.78                     | 0.77                | -0.81              |
|                                | 1700.00           | 10.53             | 187.04        | 100                | 1694.08                  | -78.48                | 78.48 S     | 0.86 W   | 78.48         | 180.63      | 0.57                     | -0.26               | -2.76              |
|                                | 1711.00           | 10.87             | 185.66        | 11                 | 1704.89                  | -80.51                | 80.51 S     | 1.09 W   | 80.52         | 180.77      | 3.87                     | 3.09                | -12.55             |