



PHOENIX

TECHNOLOGY SERVICES USA INC.

Celebrating 20 Years of Focused Solutions

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

February 6, 2018

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 12 2018

Dear District 2 - Artesia

RECEIVED

Attention: Regulatory Department

Re: Mewbourne Oil
Whitesnake 20/21 W0BC Fee 2H
Eddy County, NM
API #30-015-44559
Job No. 62327

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 | 2H | 0 | 342 | 2/5/18 | 2/5/18 | 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



PHOENIX
TECHNOLOGY SERVICES

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

Company: Mewbourne

Job #: 62327

Well Name: Whitesnake 20/21 W0BC Fee 2H

County/State: Eddy/ NM

Survey Instrument Type: North Seek Rate Gyro

API #: 30-015-44559

TIE-IN DATA

| | | | | | | | | | | | | |
|---------------------|---|---------------------|---|---------------------|---|---------------------|---|----------------|---|----------------|---|---------|
| Vertical Depth (ft) | 0 | NS Coordinates | 0 | EW Coordinates | 0 | Surface |
|---------------------|---|---------------------|---|---------------------|---|---------------------|---|----------------|---|----------------|---|---------|

First Survey

| | | | | | | | |
|------|------------|---------------------|---|---------------------|---|---------------------|---|
| Date | 2018-02-05 | Vertical Depth (ft) | 0 | Vertical Depth (ft) | 0 | Vertical Depth (ft) | 0 |
|------|------------|---------------------|---|---------------------|---|---------------------|---|

Last Survey

| | | | | | | | |
|------|------------|---------------------|-----|---------------------|------|---------------------|--------|
| Date | 2018-02-05 | Vertical Depth (ft) | 342 | Vertical Depth (ft) | 0.16 | Vertical Depth (ft) | 176.39 |
|------|------------|---------------------|-----|---------------------|------|---------------------|--------|

Projected TD Survey

| | | | | | | | |
|------|---|---------------------|---|---------------------|---|---------------------|---|
| Date | 0 | Vertical Depth (ft) | 0 | Vertical Depth (ft) | 0 | Vertical Depth (ft) | 0 |
|------|---|---------------------|---|---------------------|---|---------------------|---|

| | |
|-----------------|-------|
| Gyro Correction | -0.12 |
|-----------------|-------|

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: 2-6-18

Print Name: Andy Askew

Signature:



PHOENIX
TECHNOLOGY SERVICES

Company: Mewbourne
 Well: Whitesnake 20/21 W0BC Fee 2H
 Location: Eddy Co., NM
 Rig: Patterson 231

Job Number: 62327
 Grid Corr.: -0.12
 Lat: 32.29
 Long: -104.11

Date: 02-06-18
 Calculation Method: Minimum Curvature
 Proposed Azimuth: _____
 RKB - MSL in feet: 29
 Tie Into: Surface

| Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | N/S (ft) | E/W (ft) | Closure Distance (ft) | Closure Angle (deg) | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|--------------------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|----------|----------|-----------------------|---------------------|--------------------------|---------------------|--------------------|
| Enter Tie-In Survey on Line 10 | | | | | | | | | | | | | |
| FIELD COPY, NON-DEFINITIVE | | | | | | | | | | | | | |
| TIE IN | 0 | | | 0 | 0 | 0 | 0 | 0 | | | | | |
| Gyro | 100.01 | 0.25 | 159.54 | 100 | 100.01 | -0.20 | 0.20 S | 0.08 E | 0.22 | 159.54 | 0.25 | 0.25 | 159.52 |
| | 200.00 | 0.32 | 154.13 | 100 | 200.00 | -0.66 | 0.66 S | 0.27 E | 0.71 | 157.43 | 0.07 | 0.07 | -5.41 |
| | 300.00 | 0.12 | 58.22 | 100 | 300.00 | -0.86 | 0.86 S | 0.49 E | 0.98 | 150.46 | 0.35 | -0.20 | -95.91 |
| | 342.00 | 0.16 | 176.39 | 42 | 342.00 | -0.89 | 0.89 S | 0.53 E | 1.04 | 149.45 | 0.57 | 0.10 | 281.36 |

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

Oil Conservation
ARTESIA DISTRICT
DEC 21 2017

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

RECEIVED AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | | | | | | | |
|--|----------------------|--|---------------------|---|-----------------------------|----------------------------------|------------------------------|--|-----------------------|
| ¹ API Number 30-015-44559 | | ² Pool Code 98220 | | ³ Pool Name PURPLE SAGE WOLFCAMP GAS | | | | | |
| ⁴ Property Code | | ⁵ Property Name WHITESNAKE 20/21 WOBC FEE | | | | | | ⁶ Well Number 2H | |
| ⁷ GRID NO. 14744 | | ⁸ Operator Name MEWBOURNE OIL COMPANY | | | | | | ⁹ Elevation 3049' | |
| ¹⁰ Surface Location | | | | | | | | | |
| UL or lot no. C | Section 20 | Township 23S | Range 28E | Lot Idn | Feet from the 600 | North/South line NORTH | Feet From the 2200 | East/West line WEST | County EDDY |
| ¹¹ Bottom Hole Location If Different From Surface | | | | | | | | | |
| UL or lot no. C | Section 21 | Township 23S | Range 28E | Lot Idn | Feet from the 330 | North/South line NORTH | Feet from the 2310 | East/West line WEST | County EDDY |
| ¹² Dedicated Acres 320 | | 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.

| | | |
|---|---|--|
| <p>¹⁶</p> <p>GEODETIC DATA NAD 83 GRID - NM EAST</p> <p>SURFACE LOCATION N 471612.4 - E 610033.4 LAT: 32.2963402° N LONG: 104.1110072° W</p> <p>BOTTOM HOLE N 471888.5 - E 615424.0 LAT: 32.2970672° N LONG: 104.0935596° W</p> <p>CORNER DATA NAD 83 GRID - NM EAST</p> <p>A: FOUND 1/2" REBAR N 466867.5 - E 607843.9</p> <p>B: FOUND 1/2" REBAR N 472218.9 - E 607832.7</p> <p>C: FOUND 1/2" REBAR N 472210.9 - E 610473.4</p> | <p>CORNER DATA NAD 83 GRID - NM EAST</p> <p>D: FOUND COTTON SPINDLE N 472200.3 - E 613112.7</p> <p>E: FOUND 1/2" REBAR N 472221.1 - E 615763.9</p> <p>F: FOUND COTTON SPINDLE N 472241.2 - E 618414.9</p> <p>G: FOUND COTTON SPINDLE N 469587.2 - E 618442.8</p> <p>H: FOUND COTTON SPINDLE N 466918.0 - E 618471.2</p> <p>I: FOUND COTTON SPINDLE N 466898.7 - E 615806.4</p> <p>J: FOUND 1/2" REBAR N 466881.6 - E 613142.8</p> <p>K: FOUND 1/2" REBAR N 466874.8 - E 610479.4</p> | <p>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.</p> <p style="text-align: right;">12-15-17</p> <p>Signature _____ Date _____ BRADLEY BISHOP Printed Name BBISHOP@MEWBOURNE.COM E-mail Address</p> |
| <p>N 89°49'39" W 2641.27' N 89°46'09" W 2639.95' S 89°33'04" W 2651.93' S 89°33'56" W 2651.60'</p> | | <p>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.</p> <p style="text-align: center;">11-9-2017 Date of Survey</p> <p>Signature and Seal of Professional Surveyor _____</p> <p style="text-align: center;">19680 Certificate Number</p> |
| <p>The diagram shows a grid with sections 20 and 21. The well location is marked with a circle and 'W'. The surface location (S.L.) is marked with a circle and 'S.L.'. The bottom hole location (B.H.) is marked with a circle and 'B.H.'. Distances and bearings are provided for the well location and the bottom hole location. The well location is 2200' from the west line of section 20, 600' from the north line of section 20, and 2310' from the west line of section 21. The bottom hole location is 330' from the north line of section 21 and 2310' from the west line of section 21.</p> | | |