

**RAILROAD COMMISSION OF TEXAS**

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Status:
Date:
Tracking No.:

Form W-2

Approved
02/08/2018
182981

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG**OPERATOR INFORMATION**

Operator Name: MEWBOURNE OIL COMPANY **Operator No.:** 562560
Operator Address: BOX 7698 TYLER, TX 75711-0000

WELL INFORMATION

API No.: 42-495-33880 **County:** WINKLER
Well No.: W101CN **RRC District No.:** 08
Lease Name: UNIVERSITY B21 8 **Field Name:** PHANTOM (WOLFCAMP)
RRC Lease No.: 48089 **Field No.:** 71052900
Location: Section: 8, Block: 21, Survey: UL, Abstract:

Latitude: 35 **Longitude:** -103
This well is located 6.2 **miles in a** WEST
direction from 6.2 MILES WEST FROM WINK,
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Initial Potential
Type of completion: New Well
Well Type: Producing **Completion or Recompletion Date:** 10/09/2017
Type of Permit **Date** **Permit No.**
Permit to Drill, Plug Back, or Deepen 07/05/2017 828344
Rule 37 Exception
Fluid Injection Permit
O&G Waste Disposal Permit
Other:

COMPLETION INFORMATION

Spud date: 07/22/2017 **Date of first production after rig released:** 10/09/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 07/22/2017 **Date plug back, deepening, recompletion, or drilling operation ended:** 08/19/2017
Number of producing wells on this lease in this field (reservoir) including this well: 2 **Distance to nearest well in lease & reservoir (ft.):** 1498.0
Total number of acres in lease: 640.70 **Elevation (ft.):** 2838 GL
Total depth TVD (ft.): 12080 **Total depth MD (ft.):** 16870
Plug back depth TVD (ft.): **Plug back depth MD (ft.):**
Was directional survey made other than inclination (Form W-12)? Yes **Rotation time within surface casing (hours):** 40.0
Recompletion or reclass? No **Is Cementing Affidavit (Form W-15) attached?** Yes
Type(s) of electric or other log(s) run: Gamma Ray (MWD) **Multiple completion?** No
Electric Log Other Description:
Location of well, relative to nearest lease boundaries **Off Lease :** No
of lease on which this well is located: 185.0 Feet from the North Line and
1660.0 Feet from the West Line of the
UNIVERSITY B21 8 Lease.

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.

| <u>Field & Reservoir</u> | <u>Gas ID or Oil Lease No.</u> | <u>Well No.</u> | <u>Prior Service Type</u> |
|------------------------------|--------------------------------|-----------------|---------------------------|
|------------------------------|--------------------------------|-----------------|---------------------------|

PACKET: N/A

W2: N/A

FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:

GAU Groundwater Protection Determination

Depth (ft.): 950.0

Date: 07/27/2016

SWR 13 Exception

Depth (ft.):

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 10/10/2017

Production method: Flowing

Number of hours tested: 24

Choke size: 14/64

Was swab used during this test? No

Oil produced prior to test: 100.00

PRODUCTION DURING TEST PERIOD:

Oil (BBLs): 227.00

Gas (MCF): 100

Gas - Oil Ratio: 440

Flowing Tubing Pressure: 0.00

Water (BBLs): 1119

CALCULATED 24-HOUR RATE

Oil (BBLs): 227.0

Gas (MCF): 100

Oil Gravity - API - 60.: 41.0

Casing Pressure: 3900.00

Water (BBLs): 1119

CASING RECORD

| Row | Type of Casing | Casing Size (in.) | Hole Size (in.) | Setting Depth (ft.) | Multi - Stage Depth (ft.) | Multi - Shoe Depth (ft.) | Cement Class | Cement Amount (sacks) | Slurry Volume (cu. ft.) | Top of Cement (ft.) | TOC Determined By |
|-----|----------------|-------------------|-----------------|---------------------|---------------------------|--------------------------|--------------|-----------------------|-------------------------|---------------------|-----------------------|
| 1 | Surface | 13 3/8 | 17 1/2 | 973 | | | C | 800 | 1308.0 | SURF ACE | Circulated to Surface |
| 2 | Intermediate | 9 5/8 | 12 1/4 | 5076 | | | C | 1450 | 2641.0 | SURF ACE | Circulated to Surface |
| 3 | Intermediate | 7 | 8 3/4 | 12288 | | | C | 700 | 1375.0 | 6409 | Calculation |
| 4 | Intermediate | 7 | 8 3/4 | 12288 | 6409 | | C | 200 | 370.0 | 4200 | Calculation |

LINER RECORD

| Row | Liner Size (in.) | Hole Size (in.) | Liner Top (ft.) | Liner Bottom (ft.) | Cement Class | Cement Amount (sacks) | Slurry Volume (cu. ft.) | Top of Cement (ft.) | TOC Determined By |
|-----|------------------|-----------------|-----------------|--------------------|--------------|-----------------------|-------------------------|---------------------|-------------------|
| 1 | 4 1/2 | 6 1/8 | 11501 | 16815 | C | 250 | 715.0 | 11501 | Calculation |

TUBING RECORD

| Row | Size (in.) | Depth | Size (ft.) | Packer Depth (ft.)/Type |
|-----|------------|-------|------------|-------------------------|
|-----|------------|-------|------------|-------------------------|

N/A

PRODUCING/INJECTION/DISPOSAL INTERVAL

| Row | Open hole? | From (ft.) | To (ft.) |
|-----|------------|------------|----------|
| 1 | No | L1 12292 | 16800.0 |

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.

Was hydraulic fracturing treatment performed? Yes

Is well equipped with a downhole actuation sleeve? No

If yes, actuation pressure (PSIG):

Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: 9928

Actual maximum pressure (PSIG) during hydraulic fracturing: 8825

Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)? Yes

| Row | Type of Operation | Amount and Kind of Material Used | Depth Interval (ft.) |
|-----|-------------------|---|----------------------|
| 1 | Fracture | FRACED W/11,245,432 GALS SLICKWATER W/7,088,900# 100 MESH SAND & 4,204,200# 40/70 WHITE SAND. | 12292 16800 |

FORMATION RECORD

| Formations | Encountered | Depth TVD (ft.) | Depth MD (ft.) | Is formation isolated? | Remarks |
|--|-------------|-----------------|----------------|------------------------|-----------------|
| RUSTLER - POSSIBLE FLOW; POSSIBLE USABLE QUALITY W COLBY-QUEEN | Yes | 860.0 | 860.0 | Yes | |
| YATES | No | | | No | PINCHED OUT |
| QUEEN-SEVEN RIVERS | No | | | No | PINCHED OUT |
| SAN ANDRES - HIGH FLOWS, H2S, CORROSIVE HOLT | No | | | No | PINCHED OUT |
| DELAWARE | Yes | 571.0 | 571.0 | Yes | |
| GLORIETA | No | | | No | PINCHED OUT |
| CLEARFORK | No | | | No | PINCHED OUT |
| WICHITA ALBANY | No | | | No | PINCHED OUT |
| BRUSHY CANYON | Yes | 7486.0 | 7486.0 | Yes | |
| CHERRY CANYON | Yes | 6176.0 | 6176.0 | Yes | |
| CANYON | No | | | No | NOT DEEP ENOUGH |
| BONE SPRINGS | Yes | 9052.0 | 9052.0 | Yes | |
| MONTOYA | No | | | No | NOT DEEP ENOUGH |
| WADDELL | No | | | No | NOT DEEP ENOUGH |
| WOLFCAMP | Yes | 11828.0 | 11860.0 | Yes | |
| ATOKA | No | | | No | NOT DEEP ENOUGH |
| STRAWN | No | | | No | NOT DEEP ENOUGH |
| PENNSYLVANIAN | No | | | No | NOT DEEP ENOUGH |
| MISSISSIPPIAN | No | | | No | NOT DEEP ENOUGH |
| DEVONIAN | No | | | No | NOT DEEP ENOUGH |
| SILURIAN | No | | | No | NOT DEEP ENOUGH |
| FUSSELMAN | No | | | No | NOT DEEP ENOUGH |
| ELLENBURGER | No | | | No | NOT DEEP ENOUGH |

Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)? No

Is the completion being downhole commingled (SWR 10)? No

REMARKS

KOP: 11573'MD; 11561'TVD.

RRC REMARKS**PUBLIC COMMENTS:**

[RRC Staff 2017-12-05 16:04:39.062] EDL=4508 feet, max acres=704, PHANTOM (WOLFCAMP) oil or gas well

CASING RECORD :**TUBING RECORD:**

SWR13 EXCEPTION ATTACHED.

PRODUCING/INJECTION/DISPOSAL INTERVAL :**ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :****POTENTIAL TEST DATA:****OPERATOR'S CERTIFICATION**

Printed Name: Janet Burns

Title: Analyst

Telephone No.: (903) 561-2900

Date Certified: 11/17/2017



RAILROAD COMMISSION OF TEXAS

1701 N. Congress

P.O. Box 12967

Austin, Texas 78701-2967

CEMENTING REPORT

Form W-15

Rev. 08/2014

Cementer: Fill in shaded areas.
Operator: Fill in other items.

OPERATOR INFORMATION

| | | | |
|----------------|------------------|-------------------|--------|
| Operator Name: | MEWBORNE OIL CO | Operator P-5 No.: | 562560 |
| Cementer Name: | BJ Services, LLC | Cementer P-5 No.: | 403101 |

WELL INFORMATION

| | | | |
|---------------|--------------------|----------------------|--------------|
| District No.: | 08 | County: | Winkler |
| Well No.: | W101CN | API No.: | 42-496-33880 |
| Lease Name: | UNIVERSITY B21.8 | Drilling Permit No.: | 828344 |
| Field Name: | Phantom (Wolfcamp) | Lease No.: | |
| | | Field No.: | 71052900 |

I. CASING CEMENTING DATA

| | | | | | |
|---|---|---|---------------------------------------|--------------------------------------|-------------------------------------|
| Type of casing: | <input type="checkbox"/> Conductor | <input checked="" type="checkbox"/> Surface | <input type="checkbox"/> Intermediate | <input type="checkbox"/> Liner | <input type="checkbox"/> Production |
| Drilled hole size (in.): | 17 1/2" | Depth of drilled hole (ft.): | 983 | Est. % wash-out or hole enlargement: | 100% |
| Size of casing in O.D. (in.): | 13 3/8" | Casing weight (lbs/ft) and grade: | 54.5# J55 | No. of centralizers used: | 6 |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? If no for surface casing, explain in Remarks. | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | Setting depth shoe (ft.): | 973 | Top of liner (ft.): | |
| Hrs. waiting on cement before drill-out: | 24 | Calculated top of cement (ft.): | SURFACE | Setting depth liner (ft.): | |
| | | Cementing date: | 7/23/2017 | | |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|-------|-------------|-----------------|--------------|
| 1 | 600 | C | SEE REMARKS | 1038 | 1455.7 |
| 2 | 200 | C | SEE REMARKS | 270 | 329 |
| 3 | | | | | |
| Total | 800 | | | 1308 | 1784.7 |

II. CASING CEMENTING DATA

| | | | | | | |
|---|--|---|-------------------------------------|---|--|--|
| Type of casing: | <input type="checkbox"/> Surface | <input type="checkbox"/> Intermediate | <input type="checkbox"/> Production | <input type="checkbox"/> Tapered production | <input type="checkbox"/> Multi-stage cement shoe | <input type="checkbox"/> Multiple parallel strings |
| Drilled hole size (in.): | | Depth of drilled hole (ft.): | | Est. % wash-out or hole enlargement: | | |
| Size of casing in O.D. (in.): | | Casing weight (lbs/ft) and grade: | | No. of centralizers used: | | |
| Tapered string drilled hole size (in.) | | Tapered string drilled hole size (in.) | | | | |
| Tapered string size of casing in O.D. (in.) | | Tapered string casing weight (lbs/ft) and grade | | Tapered string no. of centralizers used | | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? | <input type="checkbox"/> YES <input type="checkbox"/> NO | Setting depth shoe (ft.): | | | | |
| Hrs. waiting on cement before drill-out: | | Calculated top of cement (ft.): | | Cementing date: | 7/23/2017 | |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|-------|-----------|-----------------|--------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| Total | | | | | |

III. CASING CEMENTING DATA

| | | | | | | |
|---|--|---|-------------------------------------|---|---|--|
| Type of casing: | <input type="checkbox"/> Surface | <input type="checkbox"/> Intermediate | <input type="checkbox"/> Production | <input type="checkbox"/> Tapered production | <input type="checkbox"/> Multi-stage cement/DV tool | <input type="checkbox"/> Multiple parallel strings |
| Drilled hole size (in.): | | Depth of drilled hole (ft.): | | Est. % wash-out or hole enlargement: | | |
| Size of casing in O.D. (in.): | | Casing weight (lbs/ft) and grade: | | No. of centralizers used: | | |
| Tapered string drilled hole size (in.) | | Tapered string depth of drilled hole (ft.) | | | | |
| Upper: | Lower: | Upper: | Lower: | | | |
| Tapered string size of casing in O.D. (in.) | | Tapered string casing weight (lbs/ft) and grade | | Tapered string no. of centralizers used | | |
| Upper: | Lower: | Upper: | Lower: | | | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? | <input type="checkbox"/> YES <input type="checkbox"/> NO | Setting depth tool (ft.): | | | | |
| Hrs. waiting on cement before drill-out: | | Calculated top of cement (ft.): | | Cementing date: | 7/23/2017 | |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|-------|-----------|-----------------|--------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| Total | | | | | |


| CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON | | | | | | | |
|---|---------|---------|---------|---------|---------|---------|---------|
| | PLUG #1 | PLUG #2 | PLUG #3 | PLUG #4 | PLUG #5 | PLUG #6 | PLUG #7 |
| Cementing Date | | | | | | | |
| Size of hole or pipe (in.) | | | | | | | |
| Depth to bottom of tubing or drill pipe (ft.) | | | | | | | |
| Cement retainer setting depth (ft.) | | | | | | | |
| CIBP setting depth (ft.) | | | | | | | |
| Amount of cement on top of CIBP (ft.) | | | | | | | |
| Sacks of cement used | | | | | | | |
| Slurry volume pumped (cu. ft.) | | | | | | | |
| Calculated top of plug (ft.) | | | | | | | |
| Measured top of plug, if tagged (ft.) | | | | | | | |
| Slurry weight (lbs/gal) | | | | | | | |
| Class/type of cement | | | | | | | |
| Perforate and squeeze (YES/NO) | | | | | | | |

| REMARKS | |
|--|-----|
| 1ST BLEND ADDITIVES: CLASS C PREMIUM PLUS WITH 2.82% BWOC PREMIUM GEL, 1.88% BWOC CALCIUM CHLORIDE | 2ND |
| BLEND ADDITIVES: CLASS C PREMIUM PLUS WITH 1.88% BWOC CALCIUM CHLORIDE | |

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

| | | |
|---|-----------------------|--|
| WILLIAM RODGERS SUPERVISOR | BJ Services, LLC |  |
| Name and title of cementer's representative | Cementing Company, | Signature |
| 8711 W. CR 127 | Midland Texas 79706 | (432) 563-4440 |
| Address | City, State, Zip Code | Tel: Area Code Number |
| | | Date: mo. Day yr. 7/23/2017 |

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers all well data.

| | | |
|--|-----------------------|--|
| Jake Nave | Engineer |  |
| Typed or printed name of operator's representative | Title | Signature |
| 4801 Business Park Blvd | Midland, TX 79706 | (379) 393-5905 |
| Address | City, State, Zip Code | Tel: Area Code Number |
| | | Date: mo. Day yr. 07-24-17 |

Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

A. What to file: An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.

The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representatives. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. How to file: An oil and gas completion report and form W-15 may be filed online using the Commissioner's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2697).

C. Surface Casing: An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the commission.

To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p_dire=&p_rloc=&p_tloc=&pg=1&p_tac=&ti=16&pt=1&ch=3&r=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dire=&p_rloc=&p_tloc=&pg=1&p_tac=&ti=16&pt=1&ch=3&r=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

D. Estimated % wash-out: If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.

E. Multi-stage cement: An operator must report the multi-stage cement shoe in II. Casing Cement Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-Stage cement/DV tool.

F. Multiple parallel strings: An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple form W-15s to show all data for multiple parallel strings.

G. Slurry Data: If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



RAILROAD COMMISSION OF TEXAS

1701 N. Congress

P.O. Box 12967

Austin, Texas 78701-2967

CEMENTING REPORT

Form W-15

Rev. 08/2014

Cementer: Fill in shaded areas.
Operator: Fill in other items.

OPERATOR INFORMATION

| | | | |
|----------------|------------------|-------------------|--------|
| Operator Name: | MEWBOURNE OIL CO | Operator P-5 No.: | 562560 |
| Cementer Name: | BJ Services, LLC | Cementer P-5 No.: | 403101 |

WELL INFORMATION

| | | | | | |
|---------------|--------------------|------------|--------------|----------------------|--------|
| District No.: | 08 | County: | Winkler | Winkler | |
| Well No.: | W101CN | API No.: | 42-418-33880 | Drilling Permit No.: | 828344 |
| Lease Name: | UNIVERSITY B21 8 | Lease No.: | | | |
| Field Name: | Phantom (Wolfcamp) | Field No.: | 71052900 | | |

I. CASING CEMENTING DATA

| | | | | | |
|---|---|-----------------------------------|--|--------------------------------------|-------------------------------------|
| Type of casing: | <input type="checkbox"/> Conductor | <input type="checkbox"/> Surface | <input checked="" type="checkbox"/> Intermediate | <input type="checkbox"/> Liner | <input type="checkbox"/> Production |
| Drilled hole size (in.): | 12 1/4" | Depth of drilled hole (ft.): | 5090 | Est. % wash-out or hole enlargement: | 80% |
| Size of casing in O.D. (in.): | 9 5/8" | Casing weight (lbs/ft) and grade: | 40# N80 | No. of centralizers used: | 3 |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? If no for surface casing, explain in Remarks. | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | Setting depth shoe (ft.): | 5076' | Top of liner (ft.): |
| Hrs. waiting on cement before drill-out: | 12 | Calculated top of cement (ft.): | SURFACE | Cementing date: | 7/28/2017 |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|--------------|-------------|-----------------|--------------|
| 1 | 1250 | CLASS C | SEE REMARKS | 2375 | SURFACE |
| 2 | 200 | PREM. PLUS C | | 266 | |
| 3 | | | | | |
| Total | 1450 | | | 2641 | |

II. CASING CEMENTING DATA

| | | | | | | |
|---|---|---|-------------------------------------|---|--|--|
| Type of casing: | <input type="checkbox"/> Surface | <input type="checkbox"/> Intermediate | <input type="checkbox"/> Production | <input type="checkbox"/> Tapered production | <input type="checkbox"/> Multi-stage cement shoe | <input type="checkbox"/> Multiple parallel strings |
| Drilled hole size (in.): | | Depth of drilled hole (ft.): | | Est. % wash-out or hole enlargement: | | |
| Size of casing in O.D. (in.): | | Casing weight (lbs/ft) and grade: | | No. of centralizers used: | | |
| Tapered string drilled hole size (in.) | | Tapered string drilled hole size (in.) | | | | |
| Tapered string size of casing in O.D. (in.) | | Tapered string casing weight (lbs/ft) and grade | | Tapered string no. of centralizers used | | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | Setting depth shoe (ft.): | | | |
| Hrs. waiting on cement before drill-out: | | Calculated top of cement (ft.): | | Cementing date: | 7/28/2017 | |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|-------|-----------|-----------------|--------------|
| 1 | | | | | SURFACE |
| 2 | | | | | |
| 3 | | | | | |
| Total | | | | | |

III. CASING CEMENTING DATA

| | | | | | | |
|---|--|---|-------------------------------------|---|---|--|
| Type of casing: | <input type="checkbox"/> Surface | <input type="checkbox"/> Intermediate | <input type="checkbox"/> Production | <input type="checkbox"/> Tapered production | <input type="checkbox"/> Multi-stage cement/DV tool | <input type="checkbox"/> Multiple parallel strings |
| Drilled hole size (in.): | | Depth of drilled hole (ft.): | | Est. % wash-out or hole enlargement: | | |
| Size of casing in O.D. (in.): | | Casing weight (lbs/ft) and grade: | | No. of centralizers used: | | |
| Tapered string drilled hole size (in.) | | Tapered string depth of drilled hole (ft.) | | | | |
| Upper: | Lower: | Upper: | Lower: | Upper: | Lower: | |
| Tapered string size of casing in O.D. (in.) | | Tapered string casing weight (lbs/ft) and grade | | Tapered string no. of centralizers used | | |
| Upper: | Lower: | Upper: | Lower: | Upper: | Lower: | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? | <input type="checkbox"/> YES <input type="checkbox"/> NO | | Setting depth tool (ft.): | | | |
| Hrs. waiting on cement before drill-out: | | Calculated top of cement (ft.): | | Cementing date: | 7/28/2017 | |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|-------|-----------|-----------------|--------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| Total | | | | | |




| CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON | | | | | | | |
|---|---------|---------|---------|---------|---------|---------|---------|
| | PLUG #1 | PLUG #2 | PLUG #3 | PLUG #4 | PLUG #5 | PLUG #6 | PLUG #7 |
| Cementing Date | | | | | | | |
| Size of hole or pipe (in.) | | | | | | | |
| Depth to bottom of tubing or drill pipe (ft.) | | | | | | | |
| Cement retainer setting depth (ft.) | | | | | | | |
| CIBP setting depth (ft.) | | | | | | | |
| Amount of cement on top of CIBP (ft.) | | | | | | | |
| Sacks of cement used | | | | | | | |
| Slurry volume pumped (cu. ft.) | | | | | | | |
| Calculated top of plug (ft.) | | | | | | | |
| Measured top of plug, if tagged (ft.) | | | | | | | |
| Slurry weight (lbs/gal) | | | | | | | |
| Class/type of cement | | | | | | | |
| Perforate and squeeze (YES/NO) | | | | | | | |

| REMARKS |
|--|
| LEAD CMT. 3.48%CGEL 4.07%CA-200 .13LBCLC-CPF 3LBCLC-KOL 1.74%CA-400 .53%CR-150 TAIL CMT. .10%CR-100 .24%CDF-046P |

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

| | | |
|---|-------------------------|---|
| MARK NEWCOMB | BJ Services, LLC |  |
| Name and title of cementer's representative | Cementing Company | Signature |
| 8711 W. CR 127 | Midland Texas 79706 | (432) 563-4440 |
| Address | City, State, Zip Code | Tel: Area Code Number |
| | | Date: mo. Day yr. 7/28/2017 |

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers all well data.

| | | |
|--|---|--|
|  |  |  |
| Typed or printed name of operator's representative | Title | Signature |
| 4401 Business Park Blvd | Hobbs NM 88240 | 505-393-5905 |
| Address | City, State, Zip Code | Tel: Area Code Number |
| | | Date: mo. Day yr. 7-31-2017 |

Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

- What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.
The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representatives. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- How to file:** An oil and gas completion report and form W-15 may be filed online using the Commissioner's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2697).
- Surface Casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the commission.
To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p_dire=&p_loc=&p_tloc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dire=&p_loc=&p_tloc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cement Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-Stage cement/DV tool.
- Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple form W-15s to show all data for multiple parallel strings.
- Slurry Data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



RAILROAD COMMISSION OF TEXAS

1701 N. Congress
P.O. Box 12967

Austin, Texas 78701-2967

CEMENTING REPORT

Form W-15

Rev. 08/2014

Cementer: Fill in shaded areas.
Operator: Fill in other items.

OPERATOR INFORMATION

| | | | |
|----------------|------------------|-------------------|--------|
| Operator Name: | MEWBORNE OIL CO | Operator P-5 No.: | 562860 |
| Cementer Name: | BJ Services, LLC | Cementer P-5 No.: | 403101 |

WELL INFORMATION

| | | | |
|---------------|-------------------|----------------------|--------------|
| District No.: | 08 | County: | Winkler |
| Well No.: | W101CN | API No.: | 42-498-33880 |
| Lease Name: | UNIVERSITY B21 8 | Drilling Permit No.: | 828344 |
| Field Name: | Phantom (Winkler) | Lease No.: | |
| | | Field No.: | 71052900 |

I. CASING CEMENTING DATA

| | | | | | |
|---|--|-----------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|
| Type of casing: | <input type="checkbox"/> Conductor | <input type="checkbox"/> Surface | <input type="checkbox"/> Intermediate | <input type="checkbox"/> Liner | <input type="checkbox"/> Production |
| Drilled hole size (in.): | | Depth of drilled hole (ft.): | | Est. % wash-out or hole enlargement: | |
| Size of casing in O.D. (in.): | | Casing weight (lbs/ft) and grade: | | No. of centralizers used: | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? If no for surface casing, explain in Remarks. | <input type="checkbox"/> YES <input type="checkbox"/> NO | Setting depth shoe (ft.): | | Top of liner (ft.): | |
| Hrs. waiting on cement before drill-out: | | Calculated top of cement (ft.): | | Setting depth liner (ft.): | |
| | | Cementing date: | 8/9/2017 | | |
| SLURRY | | | | | |
| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| Total | 0 | | | 0 | 0 |

II. CASING CEMENTING DATA

| | | | | | | |
|---|---|--|-------------------------------------|---|--|--|
| Type of casing: | <input type="checkbox"/> Surface | <input checked="" type="checkbox"/> Intermediate | <input type="checkbox"/> Production | <input type="checkbox"/> Tapered production | <input type="checkbox"/> Multi-stage cement shoe | <input type="checkbox"/> Multiple parallel strings |
| Drilled hole size (in.): | 8 3/4" | Depth of drilled hole (ft.): | 12328 | Est. % wash-out or hole enlargement: | | |
| Size of casing in O.D. (in.): | 7" | Casing weight (lbs/ft) and grade: | 29# P-110 | No. of centralizers used: | | |
| Tapered string drilled hole size (in.): | | Tapered string drilled hole size (in.): | | | | |
| Tapered string size of casing in O.D. (in.): | | Tapered string casing weight (lbs/ft) and grade: | | Tapered string no. of centralizers used: | | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | Setting depth shoe (ft.): | 12288' | | | |
| Hrs. waiting on cement before drill-out: | 12 | Calculated top of cement (ft.): | 6409' | Cementing date: | 8/9/2017 | |
| SLURRY | | | | | | |
| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) | |
| 1 | 300 | C | See Remarks | 875 | 5715 | |
| 2 | 400 | C | See Remarks | 500 | 3324 | |
| 3 | | | | | | |
| Total | 700 | | | 1375 | 9039 | |

III. CASING CEMENTING DATA

| | | | | | | |
|---|---|--|-------------------------------------|---|--|--|
| Type of casing: | <input type="checkbox"/> Surface | <input checked="" type="checkbox"/> Intermediate | <input type="checkbox"/> Production | <input type="checkbox"/> Tapered production | <input checked="" type="checkbox"/> Multi-stage cement/DV tool | <input type="checkbox"/> Multiple parallel strings |
| Drilled hole size (in.): | 8 7/8" | Depth of drilled hole (ft.): | 12320 | Est. % wash-out or hole enlargement: | 50% | |
| Size of casing in O.D. (in.): | 7" | Casing weight (lbs/ft) and grade: | 29# P110 | No. of centralizers used: | 7 | |
| Tapered string drilled hole size (in.): | | Tapered string depth of drilled hole (ft.): | | | | |
| Upper: | Lower: | Upper: | Lower: | | | |
| Tapered string size of casing in O.D. (in.): | | Tapered string casing weight (lbs/ft) and grade: | | Tapered string no. of centralizers used: | | |
| Upper: | Lower: | Upper: | Lower: | | | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | Setting depth tool (ft.): | 6404 | | | |
| Hrs. waiting on cement before drill-out: | 12 | Calculated top of cement (ft.): | 4200' | Cementing date: | 8/9/2017 | |
| SLURRY | | | | | | |
| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) | |
| | | | | | | |
| 1 | 100 | Class C | See Remarks | 246 | 1556 | |
| 2 | 100 | Class C | See Remarks | 124 | 821 | |
| Total | 200 | | | 370 | 2377 | |

| | PLUG #1 | PLUG #2 | PLUG #3 | PLUG #4 | PLUG #5 | PLUG #6 | PLUG #7 |
|---|---------|---------|---------|---------|---------|---------|---------|
| Cementing Date | | | | | | | |
| Size of hole or pipe (in.) | | | | | | | |
| Depth to bottom of tubing or drill pipe (ft.) | | | | | | | |
| Cement retainer setting depth (ft.) | | | | | | | |
| CIBP setting depth (ft.) | | | | | | | |
| Amount of cement on top of CIBP (ft.) | | | | | | | |
| Sacks of cement used | | | | | | | |
| Slurry volume pumped (cu. ft.) | | | | | | | |
| Calculated top of plug (ft.) | | | | | | | |
| Measured top of plug, if tagged (ft.) | | | | | | | |
| Slurry weight (lbs/gal) | | | | | | | |
| Class/type of cement | | | | | | | |
| Perforate and squeeze (YES/NO) | | | | | | | |

REMARKS

Ld-60:40 C + 10 lb/sxclw-sif + .13 lb/sx clc-cpl + 1% ca-400 +.2% cd-200 + .4% cfi-270 +.2% cdf-046p TL-50:50 H .4% cfi-300+ .5% ca-400 + .2% cdf-046p +.2% cr-150

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Scott Womelsdorf Service Supervisor
Name and title of cementer's representative

BJ Services, LLC
Cementing Company
88240

Signature

2708 NW county RD
Address

Hobb NM
City, State, Zip Code

575-391-0014
Tel: Area Code Number

8/9/2017
Date: mo. Day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers all well data.

Typed or printed name of operator's representative

Title

Signature

Address

City, State, Zip Code

Tel: Area Code Number

Date: mo. Day yr.

Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

A. What to file: An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.

The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representatives. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. How to file: An oil and gas completion report and Form W-15 may be filed online using the Commissioner's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2697).

C. Surface Casing: An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the commission.

To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p_dire=&p_rloc=&p_tloc=&pg=1&p_tac=&tl=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dire=&p_rloc=&p_tloc=&pg=1&p_tac=&tl=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

D. Estimated % wash-out: If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.

E. Multi-stage cement: An operator must report the multi-stage cement shoe in II. Casing Cement Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-Stage cement/DV tool.

F. Multiple parallel strings: An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple form W-15s to show all data for multiple parallel strings.

G. Slurry Data: If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



RAILROAD COMMISSION OF TEXAS

1701 N. Congress

P.O. Box 12967

Austin, Texas 78701-2967

CEMENTING REPORT

Form W-15

Rev 08/2014

Cementer: Fill in shaded areas.

Operator: Fill in other items.

OPERATOR INFORMATION

| | | | |
|----------------|------------------|-------------------|--------|
| Operator Name: | MEWBOURNE OIL CO | Operator P-5 No.: | 562560 |
| Cementer Name: | BJ Services, LLC | Cementer P-5 No.: | 403181 |

WELL INFORMATION

| | | | |
|---------------|------------------|----------------------|--------------|
| District No.: | 08 | County: | Winkler |
| Well No.: | W101CN | API No.: | 42-148-33880 |
| Lease Name: | UNIVERSITY B21 8 | Drilling Permit No.: | 828344 |
| Field Name: | Phantom Wolfcamp | Lease No.: | |
| | | Field No.: | |

I. CASING CEMENTING DATA

| | | | | | |
|---|---|-----------------------------------|---------------------------------------|---|-------------------------------------|
| Type of casing: | <input checked="" type="checkbox"/> Conductor | <input type="checkbox"/> Surface | <input type="checkbox"/> Intermediate | <input checked="" type="checkbox"/> Liner | <input type="checkbox"/> Production |
| Drilled hole size (in.): | 6 1/8" | Depth of drilled hole (ft.): | 16870 | Est. % wash-out or hole enlargement: | 30% |
| Size of casing in O.D. (in.): | 4 1/2" | Casing weight (lbs/ft) and grade: | 19.5 # P110 | No. of centralizers used: | None |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? If no for surface casing, explain in Remarks. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | Setting depth shoe (ft.): | 16815' | Top of liner (ft.): | 11501 |
| Hrs. waiting on cement before drill-out: | | Calculated top of cement (ft.): | 11501 | Setting depth liner (ft.): | 16815 |
| | | Cementing date: | 8/18/2017 | | |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|---------|-----------|-----------------|--------------|
| 1 | 250 | CLASS C | REMARKS | 715 | 7595 |
| 2 | | | | | |
| 3 | | | | | |
| Total | 250 | | | 715 | 7595 |

II. CASING CEMENTING DATA

| | | | | | | |
|---|--|---|-------------------------------------|---|--|--|
| Type of casing: | <input type="checkbox"/> Surface | <input type="checkbox"/> Intermediate | <input type="checkbox"/> Production | <input type="checkbox"/> Tapered production | <input type="checkbox"/> Multi-stage cement shoe | <input type="checkbox"/> Multiple parallel strings |
| Drilled hole size (in.): | | Depth of drilled hole (ft.): | | Est. % wash-out or hole enlargement: | | |
| Size of casing in O.D. (in.): | | Casing weight (lbs/ft) and grade: | | No. of centralizers used: | | |
| Tapered string drilled hole size (in.) | | Tapered string drilled hole size (in.) | | | | |
| Tapered string size of casing in O.D. (in.) | | Tapered string casing weight (lbs/ft) and grade | | Tapered string no. of centralizers used | | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? | <input type="checkbox"/> YES <input type="checkbox"/> NO | Setting depth shoe (ft.): | | | | |
| Hrs. waiting on cement before drill-out: | | Calculated top of cement (ft.): | | Cementing date: | 8/18/2017 | |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|-------|-----------|-----------------|--------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| Total | | | | | |

III. CASING CEMENTING DATA

| | | | | | | |
|---|--|---|-------------------------------------|---|--|--|
| Type of casing: | <input type="checkbox"/> Surface | <input type="checkbox"/> Intermediate | <input type="checkbox"/> Production | <input type="checkbox"/> Tapered production | <input type="checkbox"/> Multi-stage cement/DIV tool | <input type="checkbox"/> Multiple parallel strings |
| Drilled hole size (in.): | | Depth of drilled hole (ft.): | | Est. % wash-out or hole enlargement: | | |
| Size of casing in O.D. (in.): | | Casing weight (lbs/ft) and grade: | | No. of centralizers used: | | |
| Tapered string drilled hole size (in.) | | Tapered string depth of drilled hole (ft.) | | | | |
| Upper: | Lower: | Upper: | Lower: | | | |
| Tapered string size of casing in O.D. (in.) | | Tapered string casing weight (lbs/ft) and grade | | Tapered string no. of centralizers used | | |
| Upper: | Lower: | Upper: | Lower: | | | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? | <input type="checkbox"/> YES <input type="checkbox"/> NO | Setting depth tool (ft.): | | | | |
| Hrs. waiting on cement before drill-out: | | Calculated top of cement (ft.): | | Cementing date: | 8/18/2017 | |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|-------|-----------|-----------------|--------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| Total | | | | | |

| CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON | | | | | | | |
|---|---------|---------|---------|---------|---------|---------|---------|
| | PLUG #1 | PLUG #2 | PLUG #3 | PLUG #4 | PLUG #5 | PLUG #6 | PLUG #7 |
| Cementing Date | | | | | | | |
| Size of hole or pipe (in.) | | | | | | | |
| Depth to bottom of tubing or drill pipe (ft.) | | | | | | | |
| Cement retainer setting depth (ft.) | | | | | | | |
| CIBP setting depth (ft.) | | | | | | | |
| Amount of cement on top of CIBP (ft.) | | | | | | | |
| Sacks of cement used | | | | | | | |
| Slurry volume pumped (cu. ft.) | | | | | | | |
| Calculated top of plug (ft.) | | | | | | | |
| Measured top of plug, if tagged (ft.) | | | | | | | |
| Slurry weight (lbs/gal) | | | | | | | |
| Class/type of cement | | | | | | | |
| Perforate and squeeze (YES/NO) | | | | | | | |

REMARKS

CLASS C +10#/SKCLW SIF+.7%CR-150+.65%CSA-200+4%SEA+.9%CA 400+1.2%CFE-270+.2%CDI-046P

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

JOSE RODRIGUEZ
Name and title of cementer's representative

BI Services, LLC
Cementing Company

Signature

2708 NW CR RD
Address

HOBBS, NM 88240
City, State, Zip Code

(575)391-0012
Tel: Area Code Number

8/18/2017
Date: mo. Day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers all well data.

Jaime Nave
Typed or printed name of operator's representative

Engineer
Title

Signature

4801 Business Park Blvd
Address

Hobbs, NM 88240
City, State, Zip Code

(505)333-5905
Tel: Area Code Number

8-18-17
Date: mo. Day yr.

Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-7 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

A. What to file: An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.

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B. How to file: An oil and gas completion report and form W-15 may be filed online using the Commissioner's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2697).

C. Surface Casing: An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the commission.

To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readatc\\$ext.TacPage?sl=R&app=9&p_dir=&p_loc=&p_tloc=&p_pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readatc$ext.TacPage?sl=R&app=9&p_dir=&p_loc=&p_tloc=&p_pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

D. Estimated % wash-out: If the estimated % wash-out is less than 70% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.

E. Multi-stage cement: An operator must report the multi-stage cement shoe in II. Casing Cement Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-Stage cement/DV tool.

F. Multiple parallel strings: An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple form W-15s to show all data for multiple parallel strings.

G. Slurry Data: If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

CHRISTI CRADDICK, CHAIRMAN
RYAN SITTON, COMMISSIONER
WAYNE CHRISTIAN, COMMISSIONER



LORI WROTENBERY
DIRECTOR, OIL AND GAS DIVISION

D. CRAIG PEARSON
DISTRICT DIRECTOR

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

OPERATOR Name: MEWBOURNE OIL COMPANY

RE: Lease: UNIVERSITY B21 8

Address1: BOX 7698

Well No: W101CN

Address2:

Sec: 8 **Block:** 21

City: TYLER

County: WINKLER

State: TX

Survey Name: UL

SWR13EX Application Number: 20675

Drilling Permit No: 828344

SWR 13 CASING EXCEPTION APPLICATION/ALTERNATIVE REQUEST APPROVED

An extension to omit the installation of tubing in the above-referenced well is approved for a period of up to 180 days from the date the application was received or the date the well began producing, whichever occurred last.

RRC APPROVAL BY: Erik Hanson

DATE: 10/20/2017

D. CRAIG PEARSON
DISTRICT DIRECTOR

Tracking No.: 182981

This facsimile L-1 was generated electronically from data submitted to the RRC.

Instructions

When to File Form L-1:

- with Forms G-1, W-2, and GT-1 for new and deepened gas, oil, and geothermal wells
- with Form W-3 for plugged dry holes
- when sending in a log which was held under a request for confidentiality and the period for confidentiality has not yet expired.

When is Form L-1 NOT required:

- with Forms W-2, G-1, and GT-1 filed for injection wells, disposal wells, water supply wells, service wells, re-test wells, re-classifications, and plugbacks of oil, gas or geothermal wells
- with Form W-3 for plugging of other than a dry hole

Where to File Form L-1:

- with the appropriate Commission district office

Filling out Form L-1:

- Section I and the signature section must be filled out for all wells
- complete only the appropriate part of Section II

Type of log required:

- any wireline survey run for the purpose of obtaining lithology, porosity, or resistivity information
- no more than one such log is required but it must be of the subject well
- if such log is NOT run on the subject well, do NOT substitute any other type of log; just select Section II, Part A below

SECTION I. IDENTIFICATION

| | | |
|---|-------------------------------|--------------------------------|
| Operator Name: MEWBOURNE OIL COMPANY | District No. 08 | Completion Date: 10/09/2017 |
| Field Name PHANTOM (WOLFCAMP) | Drilling Permit No. 828344 | |
| Lease Name UNIVERSITY B21 8 | Lease/ID No. 48089 | Well No. W101CN |
| County WINKLER | API No. 42- 495-33880 | |

SECTION II. LOG STATUS (Complete either A or B)

☐ A. BASIC ELECTRIC LOG NOT RUN☒ B. BASIC ELECTRIC LOG RUN. (Select one)

- ☒ 1. Confidentiality is requested and a copy of the header for each log that has been run on the well is attached.
- ☐ 2. Confidentiality already granted on basic electric log covering this interval (applicable to deepened wells only).
- ☐ 3. Basic electric log covering this interval already on file with Commission (applicable to deepened wells only).
- ☐ 4. Log attached to (select one):

☐ (a) Form L-1 (this form). If the company/lease name on log is different from that shown in Section I, please enter name on log here: _____

Check here if attached log is being submitted after being held confidential. ☐

☐ (b) Form P-7, Application for Discovery Allowable and New Field Designation.

☐ (c) Form W-4, Application for Multiple Completion:

Lease or ID No(s). _____

Well No(s). _____

Janet Burns

Signature

MEWBOURNE OIL COMPANY

Name (print)

Analyst

Title

(903) 561-2900

Phone

11/17/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-

**Stryker Energy Directional Services**

1212 Old Hwy 105W
Conroe, Tx 77356
(936) 582-7296

University B21 8 #W101CN

Scale 5":100' - MD
8/16/2017 11:00 AM

Oper. Company: Mewbourne Oil Company
Well: University B21 8 #W101CN
Field: Wolfcamp A
Rig: Patterson #220
Well ID: 42-495-33880
Job Number: M171054

State: Texas
County: Winkler
Country: United States of America
Location: Approximately 6.2 Miles West of Wink, Texas
Start Date: 08/05/2017 03:05:01
End Date: 08/16/2017 10:45:04

Latitude: 31.753889
Longitude: -103.260042

Elev GL: 2838
Elev DF: 2865
Elev KB: 2865

Operator 1: John Bult

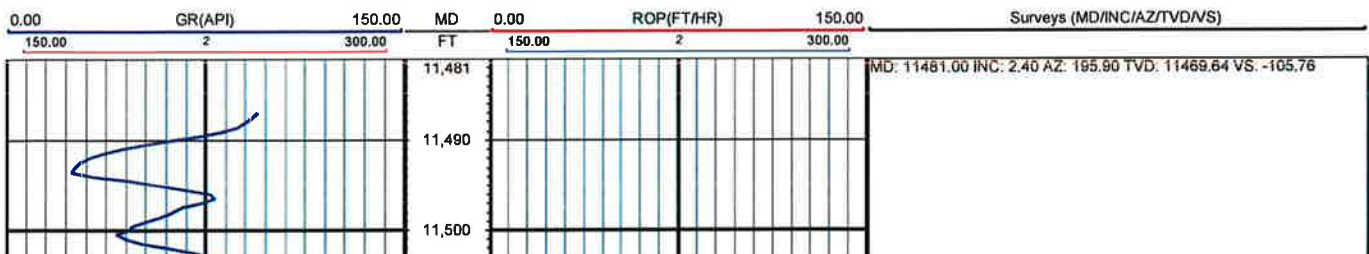
Operator 2: Chris Alley

Notes: Stopped logging @ 16611 due to MWD tool trouble. We were able to get surveys to finish out the well and TD is @ 16870.

| Tool Run Data | Run #1 | Run #2 | Run #3 | Run #4 | Run #5 |
|--------------------|----------|-----------|--------|--------|--------|
| Tool S/N | 4941 | 4941 | | | |
| Bit Size | 8 3/4 | 6 1/8 | | | |
| Cal Factor | 1.040 | 1.040 | | | |
| Survey Offset | 45.00 | 51.00 | | | |
| Gamma Offset | 42.00 | 48.00 | | | |
| Resistivity Offset | 0.00 | 0.00 | | | |
| Start Depth | 11528.00 | 12320.00 | | | |
| StartDate | 8/5/2017 | 8/12/2017 | | | |
| StartTime | 03:05 | 12:42 | | | |
| EndDepth | 12320.00 | 16870.00 | | | |
| EndDate | 8/6/2017 | 8/16/2017 | | | |
| EndTime | 06:00 | 10:45 | | | |
| Mud Type | WBM | OBM | | | |
| Mud Weight | 9.6 | 14.5 | | | |
| Funnel Viscosity | 34 | 82 | | | |
| Plastic Viscosity | 1 | 44 | | | |
| Yield Point | 1 | 12 | | | |
| Solids Content | 2.1 | 26.2 | | | |
| Sand Content | TRC | 29 | | | |
| Temperature | 146 | 189 | | | |

| Hole Data | | | Casing Data | | |
|-----------|----------|----------|-------------|------|----------|
| Size | From | To | Size | From | To |
| 17 1/2 | 0.00 | 983.00 | 13 5/8 | 0.00 | 973.00 |
| 12 1/4 | 983.00 | 5090.00 | 9 5/8 | 0.00 | 5076.00 |
| 8 3/4 | 5090.00 | 12320.00 | 7 | 0.00 | 12288.00 |
| 6 1/8 | 12320.00 | 16870.00 | | | |

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.



CERTIFICATE OF COMPLIANCE AND TRANSPORTATION AUTHORITY

P-4

This facsimile P-4 was generated electronically from data submitted to the RRC.

A certification of the automated data is available in the RRC's Austin office.

Tracking No.: 182981

| | | | | | | |
|---|-----------|---|--------------------------------------|--|------------------------------|------------------|
| 1. Field name exactly as shown on proration schedule PHANTOM (WOLFCAMP) | | 2. Lease name as shown on proration schedule UNIVERSITY B21 8 | | | | |
| 3. Current operator name exactly as shown on P-5 Organization Report MEWBOURNE OIL COMPANY | | 4. Operator P-5 no. 562560 | 5. Oil Lse/Gas ID no 48089 | 6. County WINKLER | 7. RRC district 08 | |
| 8. Operator address including city, state, and zip code BOX 7698 TYLER, TX 75711 | | 9. Well no(s) (see instruction E) W101CN | | | | |
| 12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G) a. Change of: <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code <input type="checkbox"/> field name from _____ <input type="checkbox"/> lease name from _____ --- OR --- b. New RRC Number for: <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well Due to: <input checked="" type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> other well (specify) _____ <input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only) | | 10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A) | | 11. Effective Date 10/09/2017 | | |
| 13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). (See instruction G). | | | | | | |
| Gatherer | Purchaser | Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left (Attach an additional sheet in same format if more space is needed) | | Purchaser's RRC Assigned System Code | Percent of Take | Full-well stream |
| X | X | TARGA DELAWARE LLC(836022) | | 0001 | 100.0 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 14. Authorized OIL or CONDENSATE Gatherer(s). (See instruction G). | | | | | | |
| Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First (Attach an additional sheet in same format if more space is needed) | | | | | | Percent of Take |
| EASTEX CRUDE COMPANY(239232) | | | | | | 33.0 |
| SHELL TRADING (US) COMPANY(774715) | | | | | | 33.0 |
| PLAINS PIPELINE L.P.(667884) | | | | | | 34.0 |
| RRC USE ONLY: Reviewer's initials: _____ Approval date: _____ | | | | | | |
| 15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission. | | | | | | |
| Name of Previous Operator _____ Name (print) _____ Title _____ | | | | Signature <input type="checkbox"/> Authorized Employee of previous operator <input type="checkbox"/> Authorized agent of previous operator (see instruction G) _____ Date _____ Phone with area code _____ | | |
| 16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission. | | | | | | |
| MEWBOURNE OIL COMPANY Name (print) Analyst Title jburns@mewbourne.com E-mail Address (optional) | | | | Janet Burns Signature <input checked="" type="checkbox"/> Authorized Employee of current operator <input type="checkbox"/> Authorized agent of current operator (see instruction G) _____ Date 11/17/2017 Phone with area code (903) 561-2900 | | |

STATEMENT OF PRODUCTIVITY OF ACREAGE
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 182981

This facsimile P-15 was generated electronically
from data submitted to the RRC.

The undersigned states that he is authorized to make this statement; that he has knowledge of the facts concerning the MEWBOURNE OIL COMPANY ,

UNIVERSITY B21 8 , No. W101CN ; that such well is
LEASE OPERATOR WELL

completed in the PHANTOM (WOLFCAMP) Field, WINKLER County,

Texas and that the acreage claimed, and assigned to such well for proration purposes as authorized by special rule and as shown on the attached certified plat embraces _____

320.7 acres which can reasonably be considered to be productive of hydrocarbons.

- CERTIFICATE -

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge,

Date 11/17/2017 Signature Janet Burns

Telephone (903) 561-2900 Title Analyst
AREA CODE

RAILROAD COMMISSION OF TEXAS

**1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967**

Form P-16

Page 1

Rev. 01/2016

Acreage Designation

SECTION I. OPERATOR INFORMATION

| SECTION I. OPERATOR INFORMATION | |
|--|---------------------------------|
| Operator Name: MEWBOURNE OIL COMPANY | Operator P-5 No.: 562560 |
| Operator Address: P. O. BOX 7698, TYLER, TX 75711 | |

SECTION II. WELL INFORMATION

| SECTION II. WELL INFORMATION | | |
|---------------------------------------|------------------------------------|--|
| District No.: 08 | County: WINKLER | Purpose of Filing: <input type="checkbox"/> Drilling Permit Application (Form W-1) <input checked="" type="checkbox"/> Completion Report (Form G-1/W-2) |
| Well No.: W101CN | API No.: 42-495-33880 | |
| Total Lease Acres: 640.7 | Drilling Permit No.: 828344 | |
| Lease Name: UNIVERSITY B21 8 | Lease No.: | |
| Field Name: PHANTOM (WOLFCAMP) | Field No.: 71052900 | |

Filer is the owner or lessee, or has been authorized by the owner or lessee, of all or an undivided portion of the mineral estate under each tract for which filer is listed as operator below. For all leases operated by other entities, the number of assigned acres shown are reflected on current Commission records or the filer has been authorized by the current operator to change the assigned acreage of that operator as shown below.

SECTION III. LISTING OF ALL WELLS IN THE APPLIED-FOR FIELD ON THE SAME ACREAGE AS THE LEASE, POOLED UNIT, OR UNITIZED TRACT DESIGNATED IN SECTION II ABOVE BY FILER

[illegible]


| | | | | | |
|--------------------|---|-------|--|-------|-----------------------------|
| Total Well Count > | 2 | 640.7 | < A. Total Assigned Horiz. Acreage | 640.7 | < C. Total Assigned Acreage |
| | | 0 | < Total Remaining Horiz. Acreage | 0 | < Total Remaining Acreage |
| | | 0 | < B. Total Assigned Vert./Dir. Acreage | | |
| | | 640.7 | < Total Remaining Vert./Dir. Acreage | | |

SECTION IV. REMARKS / PURPOSE OF FILING (see instructions)

[illegible]

Attach Additional Pages As Needed. ☒ No additional pages ☐ Additional Pages: _____ (No. of additional pages)

CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that this report was prepared by me or under my supervision or direction, that I am authorized to make this report, and that the information contained in this report is true, correct, and complete to the best of my knowledge.

| | | | | | | |
|---|---------------------------------------|---------------|-----------------|---|---------------|--------------------------|
|  | Janet Burns Reg. Tech. | | | | | |
| Signature | Name and title (type or print) | | | Email (include email address <i>only</i> if you affirmatively consent to its public release) | | |
| P. O. Box 7698 | Tyler | TX | 75711 | 903 | 561-2900 | 11/17/17 |
| Address | City, | State, | Zip Code | Tel: Area Code | Number | Date: mo. day yr. |

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION OIL ALLOWABLE SUPPLEMENT

The allowables set forth supersede all previous allowables set forth for this well or wells irrespective of the manner in which such previous allowables were set, unless otherwise noted under "Remarks."

This instrument constitutes authority for the purchaser or gatherer of oil produced from this well or wells, to take the allowable production accumulating or accumulated for the effective date shown until the issuance of a new schedule in which the allowable for this well or wells will be included. The presentation of this instrument, to the operator owning such well, will be authority for the movement of such accumulated production.

OPERATOR

GATHERER

MEWBOURNE OIL COMPANY
BOX 7698
TYLER TX 75711

PLAINS PIPELINE L.P.
ATTN PIPELINE ACCOUNTING
P O BOX 4648
HOUSTON TX 77210

| | | | | | | | | | | | | | |
|---|--------------------|----------------|--------------|--------------|-------------|-----------|------------------|----------------|-----|------------------|-----------|---------|-------------|
| DIST. NO. | FIELD NAME | | FIELD NUMBER | | COUNTY NAME | | DATE OF ISSUANCE | | | | | | |
| 08 | PHANTOM (WOLFCAMP) | | 71052900 | | WINKLER | | 02/08/2018 | | | | | | |
| LEASE NO. | LEASE NAME | | WELL NUMBER | RECORD NO. | MULTI-WELL | | | SUPPLEMENT NO. | | | | | |
| 48089 | UNIVERSITY B21 8 | | W101CN | | PRODUCING | INJECTION | SHUT-IN | 153707 | | | | | |
| MONTH AND YEAR | | DAILY | | | | | | | | MONTHLY | | | |
| | | FIRST OF MONTH | SYMBOL | SUPPLEMENTAL | SYMBOL | DAY | SUPPLEMENTAL | SYMBOL | DAY | EX. TRAN TO WELL | WELL (\$) | CHANGE | LEASE TOTAL |
| 01/2018 | OIL ALLOW | 227 | # | | | | | | | | 7037 | +7037 | 11873 |
| | GAS LIMIT | 8338 | | | | | | | | | 258478 | +258478 | 774318 |
| 02/2018 | OIL ALLOW | 227 | # | | | | | | | | 6356 | +6356 | 10724 |
| | GAS LIMIT | 8338 | | | | | | | | | 233464 | +233464 | 699384 |
| | OIL ALLOW | | | | | | | | | | | | |
| | GAS LIMIT | | | | | | | | | | | | |
| REMARKS: NEW WELL <div style="text-align: right;">***OPERATOR COPY***</div> | | | | | | | | | | | | | |

NOTE: Oil Allowables and Gas Limits include transfer amounts, except Exempt Transfer when shown.

By order of the Railroad Commission of Texas
SEND INQUIRIES TO: DIRECTOR, PRODUCTION and PRORATION
Oil and Gas Division

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION OIL ALLOWABLE SUPPLEMENT

The allowables set forth supersede all previous allowables set forth for this well or wells irrespective of the manner in which such previous allowables were set, unless otherwise noted under "Remarks."

This instrument constitutes authority for the purchaser or gatherer of oil produced from this well or wells, to take the allowable production accumulating or accumulated for the effective date shown until the issuance of a new schedule in which the allowable for this well or wells will be included. The presentation of this instrument, to the operator owning such well, will be authority for the movement of such accumulated production.

OPERATOR

GATHERER

MEWBOURNE OIL COMPANY
BOX 7698
TYLER TX 75711

PLAINS PIPELINE L.P.
ATTN PIPELINE ACCOUNTING
P O BOX 4648
HOUSTON TX 77210

| | | | | | | | | | | | | | |
|---------------------|---------------------|--------|--------------|--------|-------------|--------------|------------------|----------------|------------------|-----------|---------|-------------|--|
| DIST. NO. | FIELD NAME | | FIELD NUMBER | | COUNTY NAME | | DATE OF ISSUANCE | | | | | | |
| 08 | PHANTOM (WOLF CAMP) | | 71052900 | | WINKLER | | 02/08/2018 | | | | | | |
| LEASE NO. | LEASE NAME | | WELL NUMBER | | RECORD NO. | MULTI-WELL | | SUPPLEMENT NO. | | | | | |
| 48089 | UNIVERSITY B21 8 | | W101CN | | | PRODUCING | INJECTION | SHUT-IN | | | | | |
| | | | | | | | | 153706 | | | | | |
| MONTH AND YEAR | DAILY | | | | | | | | | | MONTHLY | | |
| | FIRST OF MONTH | SYMBOL | SUPPLEMENTAL | SYMBOL | DAY | SUPPLEMENTAL | SYMBOL | DAY | EX. TRAN TO WELL | WELL (\$) | CHANGE | LEASE TOTAL | |
| 10/2017 | OIL ALLOW | - 0 - | 227 | # | 9 | | | | | 5221 | +5221 | 11514 | |
| | GAS LIMIT | - 0 - | 8338 | | | | | | | 191774 | +191774 | 707614 | |
| 11/2017 | OIL ALLOW | 227 | # | | | | | | | 6810 | +6810 | 12840 | |
| | GAS LIMIT | 8338 | | | | | | | | 250140 | +250140 | 749340 | |
| 12/2017 | OIL ALLOW | 227 | # | | | | | | | 7037 | +7037 | 11873 | |
| | GAS LIMIT | 8338 | | | | | | | | 258478 | +258478 | 774318 | |
| REMARKS: | | | | | | | | | | | | | |
| NEW WELL | | | | | | | | | | | | | |
| ***OPERATOR COPY*** | | | | | | | | | | | | | |

NOTE: Oil Allowables and Gas Limits include transfer amounts, except Exempt Transfer when shown.

By order of the Railroad Commission of Texas
SEND INQUIRIES TO:

DIRECTOR, PRODUCTION and PRORATION
Oil and Gas Division

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date issued: 27 July 2016**GAU Number:** 157958**Attention:** MEWBOURNE OIL COMPANY
BOX 7698
TYLER, TX 75711**Operator No.:** 562560**API Number:**
County: WINKLER
Lease Name: University B21 8**Lease Number:**
Well Number: W202DM
Total Vertical Depth: 13000
Latitude: 31.752436
Longitude: -103.263229
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Block-21; Section-8

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

The interval from the land surface to the base of the Allurosa, which is estimated to occur at a depth of 950 feet, must be protected.

Please send Gamma Ray/Porosity log of this well when it is available.

This recommendation is applicable for all wells drilled in this Section 8 on this Lease.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

This determination is based on information provided when the application was submitted on 07/26/2016. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

Block 21, University Lands Survey Winkler County, Texas

6
GRID N: 770728.342
GRID E: 1088856.473

N 73°42'28" E 5281.69'

5 4
8 GRID N: 77210.046
9 GRID E: 1093926.073

#W202DM 1660'

MEWBOURNE OIL COMPANY

#W101CN EL. 2838'
Surface Hole Location (SHL)/
Penetration Point (PP)
GRID N: (Y)771016.455
GRID E: (X)1090501.694
NAD'83 Lat/Long
Lat: +31°45'13.835"N
Lon: -103°15'36.248"W
First Take Point (FTP)
505' FNL & 1959' FWL
GRID N: 770793
GRID E: 1090878

Driving Directions to Location:
Hwy 115 & Hwy 1232 in Wink, Texas;
Drive Northwest on Hwy 1232, 1.5 miles to
CR 201;
Turn left (West) on to CR 201, drive 5.2 to a
lease road at Lat: 31°44'13.15", Long:
103°16'02.32";
Turn right (North) on to road, drive 1.1 miles
to a well pad;
Location is right (East) 298'

640.7 Acre Lease

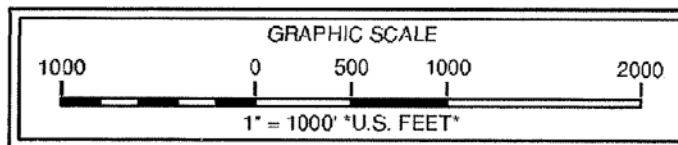
Last Take Point (LTP)
281' FSL & 1963' FWL
GRID N: 766474
GRID E: 1092144

Bottom Hole Location (BHL)/
Terminus
211' FSL & 1961' FWL
GRID N: (Y)766406
GRID E: (X)1092162
University B21 B

S 73°42'23" W 5282.23'

GRID N: 765652.891
GRID E: 1090339.309
18

17 16



Note: Well is located 6.2 miles West of the city of Wink, Texas.

Note: Survey Reconstruction filed in the Office of Pennell & Marlowe Land Surveyors, Inc.

Note: Bearings and distances are based on The Texas Coordinate System of 1927, Central Zone.

Note: Coordinates shown herein are on The Texas Coordinate System of 1927, Central Zone.

USGS Quadrangle Sheet: Cheyenne Draw SE, Tex. &
Soda Lake NE, Tex.



June 07, 2017

170607B BCL

Stephen P. Marlowe
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5715

Railroad Commission Permit Plat

MEWBOURNE OIL COMPANY
University B21 8 #W101CN
185' FROM NORTH LINE
1660' FROM WEST LINE
University B21 8 Lease
640.7 Acres being all of
Section 8, Block 21
University Lands Survey
Winkler County, Texas

Scale: 1" = 1000'