



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved  
Date: 06/25/2018  
Tracking No.: 190880

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG

OPERATOR INFORMATION

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

WELL INFORMATION

API No.: 42-495-33905  
Well No.: W101BO  
Lease Name: UNIVERSITY B20 12  
RRC Lease No.: 48755  
Location: Section: 12, Block: 20, Survey: UL, Abstract: U18  
County: WINKLER  
RRC District No.: 08  
Field Name: PHANTOM (WOLFCAMP)  
Field No.: 71052900  
Latitude: 31.746035  
Longitude: -103.286418  
This well is located 7.6 miles in a SW direction 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: 02/12/2018  
Type of Permit  
Date  
Permit No.  
Permit to Drill, Plug Back, or Deepen 08/21/2017 829911  
Rule 37 Exception  
Fluid Injection Permit  
O&G Waste Disposal Permit  
Other:

COMPLETION INFORMATION

Spud date: 11/16/2017  
Date of first production after rig released: 02/12/2018  
Date plug back, deepening, recompletion, or drilling operation commenced: 11/16/2017  
Date plug back, deepening, recompletion, or drilling operation ended: 12/12/2017  
Number of producing wells on this lease in this field (reservoir) including this well: 2  
Distance to nearest well in lease & reservoir (ft.): 1465.0  
Total number of acres in lease: 320.70  
Elevation (ft.): 2820 GL  
Total depth TVD (ft.): 12182  
Total depth MD (ft.): 16890  
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): 45.0  
Is Cementing Affidavit (Form W-15) attached? Yes  
Recompletion or reclass? No  
Multiple completion? No  
Type(s) of electric or other log(s) run: Gamma Ray (MWD)  
Electric Log Other Description:  
Location of well, relative to nearest lease boundaries  
of lease on which this well is located: 385.0 Feet from the North Line and 916.0 Feet from the West Line of the UNIVERSITY B20 12 Lease.

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

Field & Reservoir Gas ID or Oil Lease No. Well No. Prior Service Type

PACKET: N/A

W2:	N/A
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:	
GAU Groundwater Protection Determination	Depth (ft.): 325.0      Date: 08/25/2015
SWR 13 Exception	Depth (ft.):

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION	
Date of test: 02/25/2018	Production method: Flowing
Number of hours tested: 24	Choke size: 27/64
Was swab used during this test? No	Oil produced prior to test: 2839.00
PRODUCTION DURING TEST PERIOD:	
Oil (BBLs): 525.00	Gas (MCF): 499
Gas - Oil Ratio: 950	Flowing Tubing Pressure: 0.00
Water (BBLs): 4012	
CALCULATED 24-HOUR RATE	
Oil (BBLs): 525.0	Gas (MCF): 499
Oil Gravity - API - 60.: 44.1	Casing Pressure: 2525.00
Water (BBLs): 4012	

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	362			C	350	465.0	SURF ACE	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	5011			C	1102	2436.0	0	Circulated to Surface
3	Intermediate	7	8 3/4	12394			C	843	2083.1	3310	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	11617	16881	H	325	806.0	11617	Circulated to Surface

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 12568	16866.0

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:	9000	Actual maximum pressure (PSIG) during hydraulic fracturing:	8900
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.)

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
RUSTLER - POSSIBLE FLOW; POSSIBLE USABLE QUALITY W COLBY-QUEEN	Yes	837.0	837.0	Yes	PINCHED-OUT
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	5125.0	5125.0	Yes	
GLORIETA	No			No	PINCHED-OUT
CLEARFORK	No			No	PINCHED-OUT
WICHITA ALBANY	No			No	PINCHED-OUT
BRUSHY CANYON	Yes	7475.0	7475.0	Yes	
CHERRY CANYON	Yes	6113.0	6113.0	Yes	
CANYON	No			No	WELL NOT DEEP ENOUGH
BONE SPRINGS	Yes	9043.0	9043.0	Yes	
MONTOYA	No			No	WELL NOT DEEP ENOUGH
WADDELL	No			No	WELL NOT DEEP ENOUGH
WOLFCAMP	Yes	11836.0	11836.0	Yes	
ATOKA	No			No	WELL NOT DEEP ENOUGH
STRAWN	No			No	WELL NOT DEEP ENOUGH
PENNSYLVANIAN	No			No	WELL NOT DEEP ENOUGH
MISSISSIPPIAN	No			No	WELL NOT DEEP ENOUGH
DEVONIAN	No			No	WELL NOT DEEP ENOUGH
SILURIAN	No			No	WELL NOT DEEP ENOUGH
FUSSELMAN	No			No	WELL NOT DEEP ENOUGH
ELLENBURGER	No			No	WELL 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: 11605 TVD

RRC REMARKS	
<b>PUBLIC COMMENTS:</b> [RRC Staff 2018-06-22 14:20:51.621] EDL=4250 feet, max acres=640, PHANTOM (WOLFCAMP) oil or gas well;  take points: 12568-16866 feet	
<b>CASING RECORD :</b>	
<b>TUBING RECORD:</b> 6 MONTH EXCEPTION REGARDING THE REQUIRMENT OF TUBING	
<b>PRODUCING/INJECTION/DISPOSAL INTERVAL :</b>	
<b>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</b>	
<b>POTENTIAL TEST DATA:</b>	

OPERATOR'S CERTIFICATION	
<b>Printed Name:</b> Meredith Palmer	<b>Title:</b> Production Analyst
<b>Telephone No.:</b> (903) 561-2900	<b>Date Certified:</b> 04/27/2018





# 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.: W10180

API No. 42-495-33905 Drilling Permit No.: 529911

Lease Name: UNIVERSITY B20 12

Lease No.:

Field Name: Phantom (Wolcamp)

Field No.: 71052900

### I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☒ Surface ☐ Intermediate ☐ Liner ☐ Production

Drilled hole size (in.): 17.5

Depth of drilled hole (ft.): 375

Est. % wash-out or hole enlargement: 20%

Size of casing in O.D. (in.): 13.325

Casing weight (lbs/ft) and grade: 54.5# J55

No. of centralizers used: 4

Was cement circulated to ground surface (or bottom of cellar) outside casing? ☒ YES ☐ NO If no for surface casing, explain in Remarks.

Setting depth shoe (ft.):

Top of liner (ft.):

362

Setting depth liner (ft.):

Hrs. waiting on cement before drill-out:

Calculated top of cement (ft.): Surface

Cementing date: 11/17/17

### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	350	C	SEE REMARKS	465	670
2					
3					
Total					

### II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement shoe ☐ 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:

Upper:

Lower:

Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO

Setting depth shoe (ft.):

Hrs. waiting on cement before drill-out:

Calculated top of cement (ft.):

Cementing date:

### SLURRY

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

### III. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DV tool ☐ 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:

Upper:

Lower:

Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO

Setting depth tool (ft.):

Hrs. waiting on cement before drill-out:

Calculated top of cement (ft.):

Cementing date:

### 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)							


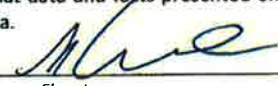
REMARKS
1) C + 1% CA-100

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.

**DON MCDANIEL SERVICE SUPERVISOR 2 BJ Services, LLC**

Name and title of cementer's representative	Cementing Company	Signature	
2708 N WEST COUNTY RD, HOBBS, NM, 88240			
		575-391-0012	11/17/17
Address	City, State, Zip Code	Tel: Area Code Number	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.

	ENG		
Typed or printed name of operator's representative	Title	Signature	
4601 Business Park BLVD	Hobbs NM 88240	575-393-5905	11-17-17
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.

- 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 representative. 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 Commission'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 78711-2967).
- 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\\_dir=&p\\_rloc=&p\\_tloc=&p\\_ploc=&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_dir=&p_rloc=&p_tloc=&p_ploc=&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 Cementing 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

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Form W-15

Rev. 08/2014

## CEMENTING REPORT

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

### OPERATOR INFORMATION

Operator Name: MEWBORNE  
Cementer Name: BJ Services, LLC

Operator P-5 No.: 542500  
Cementer P-5 No.: 403101

### WELL INFORMATION

District No.: 08  
Well No.: W101B0  
Lease Name: University B20 12  
Field Name: Phantom (Wolfcamp)

County: WINKLER  
API No.: 42-495-33905  
Drilling Permit No.: 829911  
Lease No.:  
Field No.: 71052906

### I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☐ Surface ☒ Intermediate ☐ Liner ☐ Production

Drilled hole size (in.): 12 1/4" Depth of drilled hole (ft.): 5025' Est. % wash-out or hole enlargement: 20%

Size of casing in O.D. (in.): 9 5/8" Casing weight (lbs/ft) and grade: 40# N80 No. of centralizers used:

Was cement circulated to ground surface (or bottom of cellar) outside casing? ☒ YES ☐ NO If no for surface casing, explain in Remarks. Setting depth shoe (ft.): 5011' Top of liner (ft.):  
Setting depth liner (ft.):

Hrs. waiting on cement before drill-out: 12 Calculated top of cement (ft.): 0' Cementing date: 11/21/17

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	801	C	SEE REMARKS 1	2171	8832
2	201	C	SEE REMARKS 2	285	847
3					
Total	1102			2436	

### II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement shoe ☐ 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? ☐ YES ☐ NO Setting depth shoe (ft.):

Hrs. waiting on cement before drill-out: Calculated top of cement (ft.): Cementing date:

#### SLURRY

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

### III. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DV tool ☐ 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? ☐ YES ☐ NO Setting depth tool (ft.):

Hrs. waiting on cement before drill-out: Calculated top of cement (ft.): Cementing date:

#### 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

1)50:50 poz + 5% ca-200 +.25 lb/sk clc-cpf 2) C + .10% cr-100

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.

DON MCDANIEL Service Supervisor 2

HOUSTON OIL CENTER TOOLS, LLC

Name and title of cementer's representative

Cementing Company

Signature

2708 n west county rd Hobbs, NM 88240

575-391-0012

11/21/17

Address

City, State, Zip Code

Tel: Area Code

Number

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.

Levi Jackson

Drilling Engineer

Signature

Typed or printed name of operator's representative

Title

Signature

4801 Business Park Blvd

Hobbs NM 88241

575 393-5905

11/22/17

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 representative. 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 Commission'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 78711-2967).
- 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\\_dir=&p\\_floc=&p\\_tloc=&p\\_ploc=&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_dir=&p_floc=&p_tloc=&p_ploc=&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 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 Cementing 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

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Form W-15

Rev. 08/2014

## CEMENTING REPORT

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

### OPERATOR INFORMATION

Operator Name: Newbore Oil Company

Operator P-5 No.: 562560

Cementer Name: BJ Services, LLC

Cementer P-5 No.: 403101

### WELL INFORMATION

District No.: 06

County: Winkler

Well No.: W101BO

API No.: 42-495-33905

Drilling Permit No.: 829911

Lease Name: University B20 12

Lease No.:

Field Name: Phantom (Wolfcamp)

Field No.: 71652900

### I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☐ Surface ☒ Intermediate ☐ Liner ☐ Production

Drilled hole size (in.): 8.75

Depth of drilled hole (ft.): 12,400

Est. % wash-out or hole enlargement: 20%

Size of casing in O.D. (in.): 7"

Casing weight (lbs/ft) and grade: 29# HCP-110

No. of centralizers used: 3

Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☒ NO If no for surface casing, explain in Remarks.

Setting depth shoe (ft.): 12,394'

Top of liner (ft.):

Setting depth liner (ft.):

Hrs. waiting on cement before drill-out:

Calculated top of cement (ft.): 3,310'

Cementing date: 12/2/2017

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	267	C	See Remarks	1,186.5	7,760'
2	176	C	See Remarks	419	2,788.5
3	400	C	See Remarks	497.8	3,310'
Total	843	C	See Remarks	2083.1	13,858.5

### II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement shoe ☐ 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:

Upper:

Lower:

Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO

Setting depth shoe (ft.):

Hrs. waiting on cement before drill-out:

Calculated top of cement (ft.):

Cementing date:

#### SLURRY

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

### III. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DV tool ☐ 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:

Upper:

Lower:

Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO

Setting depth tool (ft.):

Hrs. waiting on cement before drill-out:

Calculated top of cement (ft.):

Cementing date:

#### SLURRY

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



- 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 representative. 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 Commission'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 78711-2967).
- 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 cements approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtacSext.TacPage?st=R&app=9&p\\_dir=&p\\_rloc=&p\\_tloc=&p\\_ploc=&pg=1&p\\_tac=&ti=16&pt=1&ch=3&r=14](http://info.sos.state.tx.us/pls/pub/readtacSext.TacPage?st=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&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 Cementing 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

Form W-15

Rev. 08/2014

## CEMENTING REPORT

Cementer: Fill in shaded areas.

Operator: Fill in other items.

### OPERATOR INFORMATION

Operator Name: Mewbourn	Operator P-5 No.: 562560
Cementer Name: Par Five Energy Services	Cementer P-5 No.: 638840

### WELL INFORMATION

District No.: 08	County: Winkler
Well No.: W101B0	API No.: 42-495-33905 Drilling Permit No.: 829911
Lease Name: University B20 12	Lease No.:
Field Name: Phantom (Wolf Camp)	Field No.: 71052900

### I. CASING CEMENTING DATA

Type of casing: <input 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.): 16890	Est. % wash-out or hole enlargement: 20%
Size of casing in O.D. (in.): 4.5	Casing weight (lbs/ft) and grade: 13.5 P110	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 If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 16881	Top of liner (ft.): 11617
		Setting depth liner (ft.): 16881
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	325	H	See Remarks	808	8511
2					
3					
Total	325	H		808	8511

### 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.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight (lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
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:

#### 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.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight (lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used 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:

#### 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  
  
 50/50 Poz/H + 5% (BWOW) PF44 Ball + 10% PF20 Bentonite + 0.5% PF79 Chemical Extender + 0.35% PF813 Retarder + 0.1% PF153 Antisettling + 3 pps PF42 Kol-Seal + 0.4 pps PF46 Defoamer + 0.125 pps PF20 Cellaphane

**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.

**Cody Rasberry Service Supervisor**

**Par-Five Energy Services**

Name and title of cementer's representative

Cementing Company

11279 Lovington Highway Artesia NM 88210

(575) 748-8610

12-10-17

Address

City, State, Zip Code

Tel: Area Code

Number

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.

*Jim Ard*

*consultant*

Typed or printed name of operator's representative

Title

Signature

4801 Business PARK Blvd

Hobbs NM 88240

575 343-5905

12 P 17

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.

- 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 representative. 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 Commission'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 78711-2967).
- 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\\_dir=&p\\_rloc=&p\\_tloc=&p\\_ploc=&pg=1&p\\_tac=&ti=16&pt=1&ch=3&ri=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&ri=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 Cementing 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.

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

**Address1:** BOX 7698

**Address2:**

**City:** TYLER

**State:** TX

**RE: Lease:** UNIVERSITY B20 12

**Well No:** W101BO

**Sec:** 12 **Block:** 20

**County:** WINKLER

**Survey Name:** UL

**SWR13EX Application Number:** 28334

**Drilling Permit No:** 829911

**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:** Wade Goode

**DATE:** 05/02/2018

**D. CRAIG PEARSON**  
DISTRICT DIRECTOR

Tracking No.: 190880

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: 02/12/2018
Field Name PHANTOM (WOLFCAMP)	Drilling Permit No. 829911	
Lease Name UNIVERSITY B20 12	Lease/ID No. 48755	Well No. W101BO
County WINKLER	API No. 42- 495-33905	

## 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). \_\_\_\_\_

Meredith Palmer

Signature

MEWBOURNE OIL COMPANY

Name (print)

Production Analyst

Title

(903) 561-2900

Phone

04/27/2018

Date

-FOR RAILROAD COMMISSION USE ONLY-





QES  
QES  
13000 W Hwy 80 E  
Odessa, TX 79765

University B20 12W101BO

Scale 5":100' - MD

12/9/2017 6:39 AM

Oper. Company: Mewbourne Oil  
Well: University B20 12W101BO  
Field: Wolfcamp  
Rig: Patterson 243  
Well ID: 42-495-33905  
Job Number: WT-171229

State: TX  
County: Winkler  
Country: USA  
Location: Winkler Co  
Start Date: 11/29/2017 13:30:00  
End Date: 12/09/2017 06:30:00

Latitude: 31° 44' 45.261N  
Longitude: 103° 17' 9.490W

Elev GL: 2820  
Elev DF: 2849  
Elev KB: 2849

Operator 1: Bradley Reed

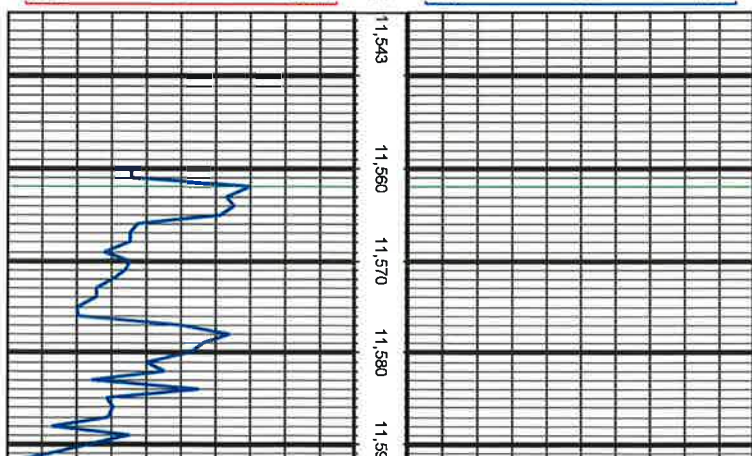
Operator 2: Charles Secoy

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	971CBG	2563			
Bit Size	8 3/4	6 1/8			
Cal Factor	3.94	2.31			
Survey Offset	50.00	55.00			
Gamma Offset	38.00	43.00			
Resistivity Offset	0.00	0.00			
Start Depth	11598.00	12400.00			
StartDate	11/29/2017	12/3/2017			
StartTime	13:33	17:00			
EndDepth	12400.00	16890.00			
EndDate	12/1/2017	12/9/2017			
EndTime	18:30	06:30			
Mud Type	WBM	OBM			
Mud Weight	9.5	14.7			
Funnel Viscosity	27	80			
Temperature	145	190			
Hole Data			Casing Data		
Size	From	To	Size	From	To
6 1/8	0.00	16890.00	9.625	0.00	5025.00

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.

0.00 GR(API) 150.00 MD 0.00 ROP(FT/HR) 200.00  
150.00 2 300.00 FT 200.00 2 400.00

Surveys (MD/INC/AZ/TVD/VS)



MD: 11543.00 INC: 1.20 AZ: 322.07 TVD: 11536.26 VS: -303.93 11,543.00

# 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.: 190880

1. Field name exactly as shown on proration schedule <b>PHANTOM (WOLFCAMP)</b>		2. Lease name as shown on proration schedule <b>UNIVERSITY B20 12</b>					
3. Current operator name exactly as shown on P-5 Organization Report <b>MEWBOURNE OIL COMPANY</b>		4. Operator P-5 no. <b>562560</b>	5. Oil Lse/Gas ID no <b>48755</b>	6. County <b>WINKLER</b>	7. RRC district <b>08</b>		
8. Operator address including city, state, and zip code <b>BOX 7698 TYLER, TX 75711</b>		9. Well no(s) (see instruction E) <b>W101BO</b>					
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G) <b>a. Change of:</b> <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>b. New RRC Number for:</b> <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well <b>Due to:</b> <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 <b>02/12/2018</b>			
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	
PLAINS PIPELINE L.P.(667884)						34.0	
EASTEX CRUDE COMPANY(239232)						33.0	
SHELL TRADING (US) COMPANY(774715)						33.0	
<b>RRC USE ONLY:</b> Reviewer's initials: <u>RRC Staff</u> Approval date: <u>06/25/2018</u>							
<b>15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING.</b> 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"/> <b>Authorized Employee of previous operator</b> <input type="checkbox"/> <b>Authorized agent of previous operator (see instruction G)</b> _____ Date _____ Phone with area code _____			
<b>16. CURRENT OPERATOR CERTIFICATION.</b> 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.							
<b>MEWBOURNE OIL COMPANY</b> Name (print) <u>Production Analyst</u> Title <u>mpalmer@mewbourne.com</u> E-mail Address (optional)				<b>Meredith Palmer</b> Signature <input checked="" type="checkbox"/> <b>Authorized Employee of current operator</b> <input type="checkbox"/> <b>Authorized agent of current operator (see instruction G)</b> <u>04/27/2018</u> Date <u>(903) 561-2900</u> Phone with 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	
Operator Name: MEWBOURNE OIL COMPANY	Operator P-5 No.: 562560
Operator Address: BOX 7698, TYLER, TX 75711	

SECTION II. WELL INFORMATION		
<b>District No.:</b> 08	<b>County:</b> WINKLER	<b>Purpose of Filing:</b> <input type="checkbox"/> Drilling Permit Application (Form W-1) <input checked="" type="checkbox"/> Completion Report (Form G-1/W-2)
<b>Well No.:</b> W101BO	<b>API No.:</b> 42-495-33905	
<b>Total Lease Acres:</b> 320.7	<b>Drilling Permit No.:</b> 829911	
<b>Lease Name:</b> UNIVERSITY B20 12	<b>Lease No.:</b>	
<b>Field Name:</b> PHANTOM (WOLFCAMP)	<b>Field No.:</b> 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.

<b>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</b>							
<b>RRC ID No. or Lease No.</b>	<b>Well No.</b>	<b>H-Horizontal D-Directional V-Vertical</b>	<b>Lease Name</b>	<b>API No.</b>	<b>Acre Assigned</b>	<b>SWR 38 Except. (Y/N)</b>	<b>Operator Name and Operator No. <i>(if different from filing operator)</i></b>
48755	W201AP	H	UNIVERSITY B20 12	42-495-33688	160.0	N	
PENDING	W101BO	H	UNIVERSITY B20 12	42-495-33905	160.7	N	
<b>Total Well Count &gt;</b>	<b>2</b>	<b>320.7</b>	<b>&lt; A. Total Assigned Horiz. Acreage</b>		<b>320.7</b>	<b>&lt; C. Total Assigned Acreage</b>	
		<b>0</b>	<b>&lt; Total Remaining Horiz. Acreage</b>		<b>0</b>	<b>&lt; Total Remaining Acreage</b>	
		<b>0</b>	<b>&lt; B. Total Assigned Vert./Dir. Acreage</b>				
		<b>0</b>	<b>&lt; Total Remaining Vert./Dir. Acreage</b>				

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

**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.

Meredith Palmer  
Signature

Meredith Palmer-Production Analyst

Name and title (type or print)

**Email (include email address *only* if you affirmatively consent to its public release)**

Box 7698

Tyler TX 75711

903

561-2900

05/01/2018

**Address**

City.	State.	Zip Code
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Tel: Area Code

Number

Date: mo. day yr.



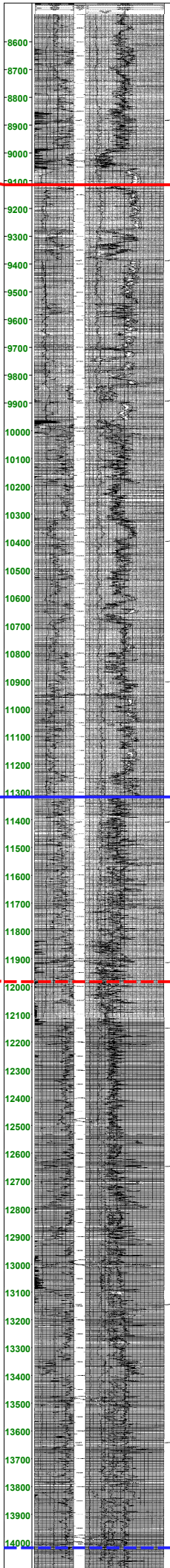
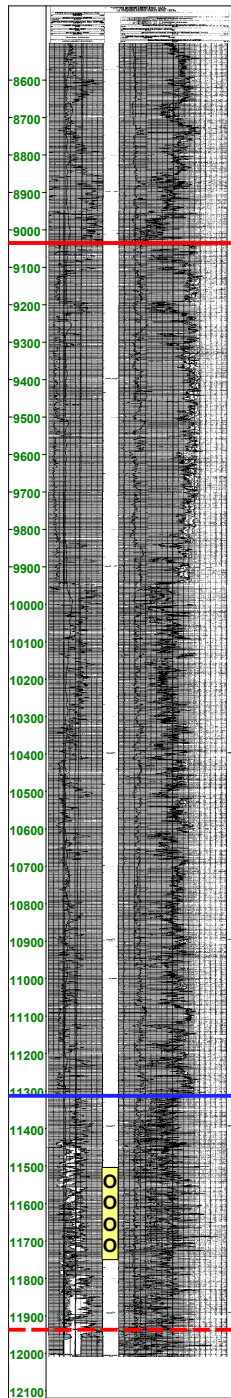
Mewbourne Oil Company  
University B20 12 #W101BO  
Top Perf Point

C

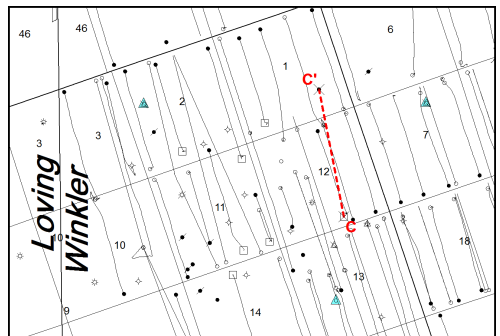
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CIMAREX UNIVERSITY 1H  
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Datum=2837.00  
TD=12120.00

6162 ft  
424953285900  
BROWN H L OPERATING LLC  
UNIVERSITY 20-1 1  
1320 FS/1320 FE  
Survey: UNIVERSITY LANDS - Abs:  
Ground=2823.00  
Reference=KB  
Datum=2849.00  
TD=14100.00

C'



**Top of Two Georges  
Field**



**Top of Phantom  
Field**

**Base of Two  
Georges Field**

**Mewbourne Oil Co  
University B20 12 #W101BO  
Top Perf Point**

**Base of Phantom  
Field**

**GROUNDWATER PROTECTION DETERMINATION****Form GW-2****Groundwater Advisory Unit****Date Issued:** 25 August 2015**GAU Number:** 14058**Attention:** MEWBOURNE OIL COMPANY  
BOX 7698  
TYLER, TX 75711**API Number:**  
**County:** WINKLER  
**Lease Name:** University B20 12  
**Lease Number:**  
**Well Number:** W101AP  
**Total Vertical Depth:** 12500  
**Latitude:** 31.747493  
**Longitude:** -103.282321  
**Datum:** NAD27**Operator No.:** 562560**Purpose:** New Drill**Location:** Survey-UL; Abstract-U13; Block-20; Section-12

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 a depth of 325 feet must be protected.

This recommendation is applicable for all wells drilled in this Section 12 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 08/25/2015. 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](mailto:gau@rrc.texas.gov).

Groundwater Advisory Unit, Oil and Gas Division

# Block 20, University Lands Survey Winkler County, Texas

1  
2 GRID N:(Y) 767764.925  
GRID E:(X) 1078718.122 N 73°42'21" E 5280.23'

#W101BO  
SHL/Pen Pt  
EL. 2820

6  
GRID N:(Y) 769246.639  
GRID E:(X) 1083786.874

Driving Directions: GRID N: (Y)768506.101  
GRID E: (X)1081252.405

Beginning in Wink, Texas at the intersection  
of Hwy 202 and FM 1232, head West  
towards Hendricks Blvd. and travel 1.5 miles.

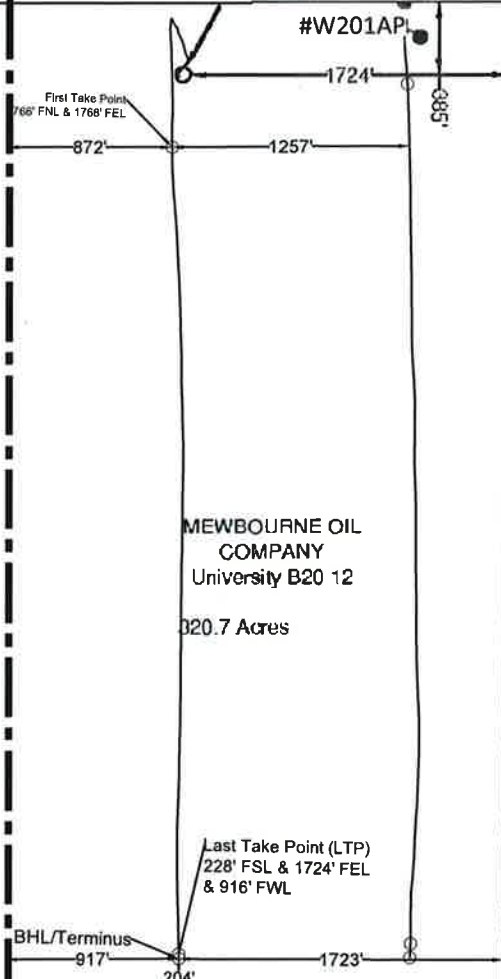
Turn left on CR 201 & travel 5.7 miles.

Turn right at a lease road and travel 0.9  
miles.

S 16°17'04" E 5287.93'

Surface Hole Location (SHL)  
GRID N: (Y)768393.384  
GRID E: (X)1082239.005  
NAD'83 Lat/Long  
Lat: +31°44'45.725"  
Long: -103°17'11.105"

Bottom Hole Location (BHL)  
GRID N: (Y)763883  
GRID E: (X)1083558

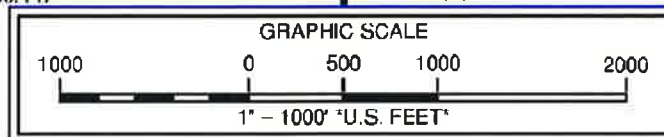


As-Drilled

S 16°16'09" E 5207.42'

11 12  
14 GRID N: 762689.388 N 73°42'01" E 5278.82' GRID N: (Y)763429.549  
GRID E: 1080200.447 GRID E: (X)1082734.587  
13

7  
18  
GRID N: 764170.901  
GRID E: 1085269.237



Note: Well is located 7.6 miles Southwest of the city of Wink, Texas.

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

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

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

Note: Example: (S-99999) indicates General Land Office file number.

USGS Quadrangle Sheet: Cheyenne Draw SE, Tex.

USGS Quadrangle Sheet: Soda Lake NE, Tex.

Railroad Commission Permit Plat



*Stephen P. Marlowe*  
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5715

August 3, 2017

170803B1-BLS

P.O. Box 51887, Midland, Texas 79710 (432) 262-0901 Fax (432) 262-0679 Firm #100201-00

MEWBOURNE OIL COMPANY  
University B20 12 #W101BO  
385' FROM NORTH LINE  
1724' FROM EAST LINE  
University B20 12 Lease  
320.7 Acres being the E/2 of  
Section 12, Block 20  
University Lands Survey  
Winkler County, Texas

Scale: 1" = 1000'