



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: **Approved**
Date: 02/08/2018
Tracking No.: 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
<u>Type of Permit</u>	<u>Date</u>	<u>Permit No.</u>
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 of lease on which this well is located:	Off Lease : No	
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.			
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
 SWR 13 Exception

Depth (ft.): 950.0
 Depth (ft.):

Date: 07/27/2016

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 Hole		Setting	Multi -	Multi -	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
		Size (in.)	Size (in.)	Depth (ft.)	Stage Depth (ft.)	Stage Shoe Depth (ft.)					
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: MEWBOURNE 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.: 42-496-33880
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? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth shoe (ft.): 973	Top of liner (ft.):	Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 24	Calculated top of cement (ft.): SURFACE	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:	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:	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 7/23/2017
 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.

Jake Nave Engineer 
 Typed or printed name of operator's representative Title Signature
4801 Business Park Blvd Midland, TX 79706 (379) 393-5905 07-24-17
 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 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.



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CEMENTING REPORT

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Rev. 08/2014

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

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Cementer Name: BJ Services, LLC	Cementer P-5 No.: 403101

WELL INFORMATION

District No.: 08	County: Winkler	Winkler
Well No.: W101CN	API No.: 42-448-33880	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.):	Setting depth 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

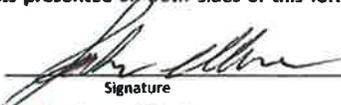
LEAD CMT. 3.48%CGEL 4.07%CA-200 .13LBCLC-CPF 3LBCLC-KOL 1.74%CA-400 .53%CR-150 TAIL CMT. .10%CR-100 .24%CDF-046P

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 7/28/2017
 Address City, State, Zip Code Tel: Area Code Number Date: mo. Day yr.

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Mike Nave Engineer 
 Typed or printed name of operator's representative Title Signature

4401 Business Park Blvd Halls NM 88240 505-397-5905 7-31-2017
 Address City, State, Zip Code Tel: Area Code Number Date: mo. Day yr.

Instructions for Form W-15, Cementing Report

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 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&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=&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.
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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: MEWBOURNE 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.: 42-496-33880 Drilling Permit No.: 828344
Lease Name: UNIVERSITY B21 8	Lease No.:
Field Name: Phantom (Waltcamp)	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.):	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.): 12320	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 3/4"	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.): 6409'				
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



RAILROAD COMMISSION OF TEXAS

1701 N. Congress

P.O. Box 12967

Austin, Texas 78701-2967

CEMENTING REPORT

Form W-15

Rev 08/2014

Cementor: Fill in shaded areas.

Operator: Fill in other items.

OPERATOR INFORMATION

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

WELL INFORMATION

District No.: 08	County: Winkler
Well No.: W101CN	API No.: 42-498-33880 Drilling Permit No.: 828344
Lease Name: UNIVERSITY B218	Lease No.:
Field Name: Phantom Wolfcamp	Field No.:

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 7/8" 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? <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 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/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: 8/18/2017

SLURRY

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

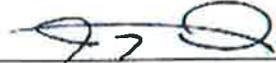
CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON

	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							
Porfurate and squeeze (YES/NO)							

REMARKS

CLASS C + 10# / SCKCLW SIF + .7% CR - 15D + .65% CSA - 200 + 4% CSEA + .9% CA 400 + 1.2% CFL - 270 + .2% CD - 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.

<u>JOSE RODRIGUEZ</u> Name and title of cementer's representative	<u>BI Services, LLC</u> Cementing Company	 Signature
<u>2708 NW CR RD</u> Address	<u>HOBBS, NM 88240</u> City, State, Zip Code	<u>(575)391-0012</u> Tel: Area Code Number
		<u>8/18/2017</u> 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.

<u>Jaime Nave</u> Typed or printed name of operator's representative	<u>Engineer</u> Title	 Signature
<u>4801 Business Park Blvd</u> Address	<u>Hobbs, NM 88240</u> City, State, Zip Code	<u>(575) 393-5905</u> Tel: Area Code Number
		<u>8-18-17</u> 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.
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_dir=&p_floc=&p_tloc=&p_1&p_toc=&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_1&p_toc=&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
Address1: BOX 7698
Address2:
City: TYLER
State: TX

RE: Lease: UNIVERSITY B21 8

Well No: W101CN
Sec: 8 **Block:** 21
County: WINKLER
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

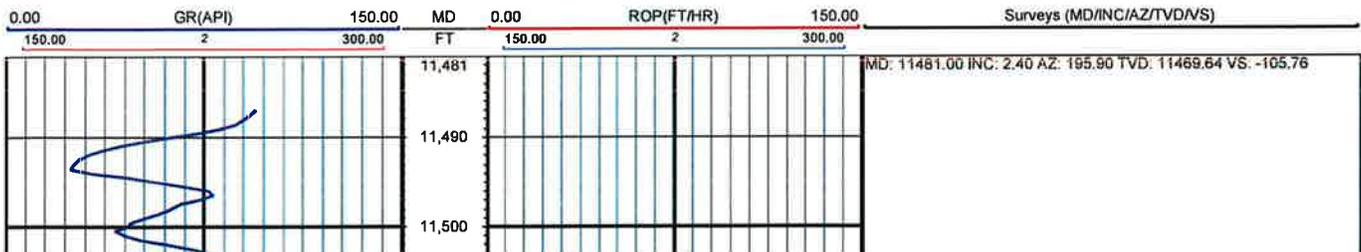
Operator 2: Chris Alley

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.



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

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 PRODUCING INJECTION SHUT-IN	SUPPLEMENT NO.									
48089	UNIVERSITY B21 8	W101CN			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 ***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

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.	SUPPLEMENT NO.									
48089	UNIVERSITY B21 8	W101CN		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

API Number:
County: WINKLER
Lease Name: University B21 8

Operator No.: 562560

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 9
GRID N: 772210.046
GRID E: 1093926.073

#W202DM

1660'

185'

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

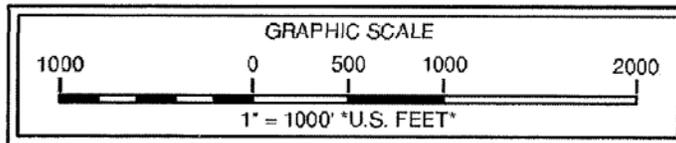
Bottom Hole Location (BHL)/
Terminus
211' FSL & 1961' FWL
GRID N: (Y)766406
GRID E: (X)1092162
University B21 B

S 73°42'23" W 5282.23'

GRID N: 767134.880
GRID E: 1095409.382

GRID N: 765652.891
GRID E: 1090339.309

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.



Stephen P. Marlowe
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5715

June 07, 2017

170607B BCL

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'