RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 01/22/2018
Tracking No.: 179437

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.: 42-495-33830 **County:** WINKLER
Well No.: W101DD **RRC District No.:** 08
Lease Name: UNIVERSITY B20 12/13 **Field Name:** PHANTOM (WOLFCAMP)
RRC Lease No.: 49211 **Field No.:** 71052900
Location: Section: 1, Block: 20, Survey: UL, Abstract:

Latitude: 31.745546 **Longitude:** -103.297135
This well is located 8.2 **miles in a** WEST
direction from 8.2 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:** 08/24/2017

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	03/24/2017	824601
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 06/17/2017 **Date of first production after rig released:** 08/24/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 06/17/2017 **Date plug back, deepening, recompletion, or drilling operation ended:** 07/18/2017
Number of producing wells on this lease in this field (reservoir) including this well: 1 **Distance to nearest well in lease & reservoir (ft.):** 0.0
Total number of acres in lease: 180.20 **Elevation (ft.):** 2826 GL
Total depth TVD (ft.): 12119 **Total depth MD (ft.):** 18690
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: 465.0 **Feet from the** South **Line and** 330.0 **Feet from the** West **Line of the** UNIVERSITY B20 12/13 **Lease.** **Off Lease :** Yes

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

	Field & Reservoir	Gas ID or Oil Lease No.	Well No.	Prior Service Type
W2:	N/A			

PACKET: N/A

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

GAU Groundwater Protection Determination **Depth (ft.):** 325.0 **Date:** 03/21/2016

SWR 13 Exception **Depth (ft.):**

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 08/30/2017 **Production method:** Flowing

Number of hours tested: 24 **Choke size:** 19/64

Was swab used during this test? No **Oil produced prior to test:** 114.00

PRODUCTION DURING TEST PERIOD:

Oil (BBLS): 65.00 **Gas (MCF):** 60

Gas - Oil Ratio: 923 **Flowing Tubing Pressure:** 0.00

Water (BBLS): 2263

CALCULATED 24-HOUR RATE

Oil (BBLS): 65.0 **Gas (MCF):** 60

Oil Gravity - API - 60.: 41.0 **Casing Pressure:** 3500.00

Water (BBLS): 2263

CASING RECORD

Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Tool Depth (ft.)	Multi - Stage 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	337			C	370	429.0	SURFACE	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	5114			C	1350	2451.0	SURFACE	Circulated to Surface
3	Intermediate	7	8 3/4	12297			C & H	750	1375.0	6320	Calculation
4	Intermediate	7	8 3/4	12297	6320		C & H	242	474.0	4600	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	11559	18650	C	325	1033.0	11559	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 12508	18632.0

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: 8875

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/15,641,107 GALS SLICKWATER W/9,090,640# 100 MESH SAND & 5,757,520# 40/70 WHITE SAND.	12508	18632

FORMATION RECORD

Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
RUSTLER - POSSIBLE FLOW; POSSIBLE USABLE QUALITY W	Yes	768.0	768.0	Yes	
COLBY-QUEEN	No			No	PINCHED OUT
YATES	No			No	PINCHED OUT
QUEEN-SEVEN RIVERS	No			No	PINCHED OUT
SAN ANDRES - HIGH FLOWS, H2S, CORROSIVE	No			No	PINCHED OUT
HOLT	No			No	PINCHED OUT
DELAWARE	Yes	5128.0	5128.0	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	6119.0	6119.0	Yes	
CANYON	No			No	WELL NOT DEEP ENOUGH
BONE SPRINGS	Yes	9076.0	9076.0	Yes	
MONTOYA	No			No	WELL NOT DEEP ENOUGH
WADDELL	No			No	WELL NOT DEEP ENOUGH
WOLFCAMP	Yes	11820.0	11839.0	Yes	PRODUCING FORMATION
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:11570'MD, 11567'TVD.

RRC REMARKS

PUBLIC COMMENTS:

[RRC Staff 2017-10-12 13:10:14.765] EDL=6124 feet, max acres=704, PHANTOM (WOLFCAMP) oil or gas well

CASING RECORD :

TUBING RECORD:

SWR13 EXCEPTION FOR TUBING TO BE ATTACHED WHEN AVAILABLE.

PRODUCING/INJECTION/DISPOSAL INTERVAL :

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

POTENTIAL TEST DATA:

OPERATOR'S CERTIFICATION

Printed Name: Meredith Palmer **Title:** Production Analyst

Telephone No.: (903) 561-2900 **Date Certified:** 01/18/2018

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 12/13
Well No: W101DD
Sec: 1 **Block:** 20
County: WINKLER
Survey Name: UL

SWR13EX Application Number: 18914

Drilling Permit No: 824601

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: 09/18/2017

D. CRAIG PEARSON
DISTRICT DIRECTOR

RAILROAD COMMISSION OF TEXAS

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

CEMENTING REPORT

Form W-15
Rev. 08/2014

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

OPERATOR INFORMATION

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

WELL INFORMATION

District No.:	08	**County:**	Winkler
Well No.:	#W101DD	**API No.:**	42-495-33830
Lease Name:	UNIVERSITY B20 12/13	**Drilling Permit No.:**	824601
Field Name:	Phantom (Wolfcamp)	**Lease No.:**	
		Field No.:	71052900

I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☒ Surface ☐ Intermediate ☐ Liner ☐ Production			
Drilled hole size (in.):	17 1/2"	**Depth of drilled hole (ft.):**	345
Size of casing in O.D. (in.):	13 3/8"	**Casing weight (lbs/ft) and grade:**	54.5# J-55
Was cement circulated to ground surface (or bottom of cellar) outside casing? If no for surface casing, explain in Remarks. ☑ YES ☐ NO		**Setting depth shoe (ft.):**	337'
Hrs. waiting on cement before drill-out:	8	**Calculated top of cement (ft.):**	SURFACE
Est. % wash-out or hole enlargement:			
No. of centralizers used:	7		
Top of liner (ft.):			
Setting depth liner (ft.):			
Cementing date:	6/18/2017		

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	370	Class C	See Remarks	428.8	614.08
2					
3					
Total	370			428.8	614.08

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.):**	
Size of casing in O.D. (in.):		**Casing weight (lbs/ft) and grade:**	
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**	
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.):**	
Est. % wash-out or hole enlargement:			
No. of centralizers used:			
Tapered string no. of centralizers used			
Cementing date:	6/18/2017		

SLURRY

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

III. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DV tool ☐ Multiple parallel strings			
Drilled hole size (in.):		**Depth of drilled hole (ft.):**	
Size of casing in O.D. (in.):		**Casing weight (lbs/ft) and grade:**	
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:	
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.):**	
Est. % wash-out or hole enlargement:			
No. of centralizers used:			
Tapered string no. of centralizers used Upper: Lower:			
Cementing date:	6/18/2017		

SLURRY

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

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

REMARKS

Class C 94lb sk + CA-100 0.94% BWOC + H2O 6.33 gal/sk Circ 45bbls to pit, 188sks

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.

Randal Mckenzie Service Supervisor	BJ Services, LLC	Randal W McKenzie	
Name and title of cementer's representative	Cementing Company	Signature	
8711 W. CR 127	Midland Texas 79706	(432) 563-4440	6/18/2017
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.

Paul Nosaft	Mid Line	Paul Nosaft	
Typed or printed name of operator's representative	Title	Signature	
4801 Business Park Blvd Hobbs NM 88240		575-390-1817	06-18-2017
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 Commisssioner'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 fromt 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). 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% (or30% 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 sumbit 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
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CEMENTING REPORT

Form W-15
Rev. 08/2014

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

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

WELL INFORMATION			
District No.:	08	County:	Winkler
Well No.:	#W101DD	API No.: 42-495-33530	Drilling Permit No.: 824601
Lease Name:	UNIVERSITY B20 12/13	Lease No.:	
Field Name:	Phantom (Wolfcamp)	Field No.:	71052900

I. CASING CEMENTING DATA

Type of casing:	☐ Conductor	☐ Surface	☑ Intermediate	☐ Liner	☐ Production
Drilled hole size (in.):	12 1/4	Depth of drilled hole (ft.):	5124	Est. % wash-out or hole enlargement:	20%
Size of casing in O.D. (in.):	9.625"	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.	☑ YES ☐ NO	Setting depth shoe (ft.):	5114'	Top of liner (ft.): / Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:	8	Calculated top of cement (ft.):	SURFACE	Cementing date:	6/23/2017

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	1150	C	See Remarks	2185	6974.01
2	200	C	See Remarks	266	848.92
3					
Total	1350			2451	7822.93

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 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?	☐ YES ☐ NO			Setting depth shoe (ft):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	6/23/2017

SLURRY

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

III. CASING CEMENTING DATA

Type of casing:	☐ 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.) 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?	☐ YES ☐ NO			Setting depth tool (ft):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	6/23/2017

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 Data							
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 - CGEL 3.48%, CA-200 4.07%, CLC-CPF .13 LB/SK, CLC-KOL 3 LB/SK, CA-400 1.74%, CR-150 .53%
Tail - CR-100 .1%, CDF-046P .24%
278 Sks circulated to surface.

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.

Michael Thornton - Supervisor	BJ Services, LLC		
Name and title of cementer's representative	Cementing Company	Signature	
8711 W. CR 127	Midland Texas 79706	(432) 563-4440	6/23/2017
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	
4601 Business Park Blvd	Hobbs NM 88240	(575) 393-5905	6-23-17
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 Commisssioner'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 fromt 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&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% (or30% 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 sumbit 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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CEMENTING REPORT

Form W-15
Rev. 08/2014

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

OPERATOR INFORMATION

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

WELL INFORMATION

District No.: 08	County: Winkler
Well No.: #W101DD	API No.: 42-495-33532 Drilling Permit No.: 824601
Lease Name: UNIVERSITY B20 12-13	Lease No.:
Field Name: Phantom Wolfcamp	Field No.: 71052900

I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☐ Surface ☐ Intermediate ☐ Liner ☐ 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. ☐ YES ☐ NO	Setting depth shoe (ft.):	Top of liner (ft.): / Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date: 7/5/2017

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: ☐ Surface ☑ Intermediate ☐ Production ☐ Tapered production ☑ Multi-stage cement shoe ☐ Multiple parallel strings

Drilled hole size (in.): 8 3/4"	Depth of drilled hole (ft.): 12310'	Est. % wash-out or hole enlargement: 20%
Size of casing in O.D. (in.): 7"	Casing weight (lbs/ft) and grade: 29# P110	No. of centralizers used: 3
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? ☐ YES ☑ NO		Setting depth shoe (ft): 12297'
Hrs. waiting on cement before drill-out: 10	Calculated top of cement (ft.): 6320'	Cementing date: 7/5/2017

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	350	Class C	Remarks-1	875	
2	400	Class H	remarks-2	500	
3					
Total	750			1375	9148.35

III. CASING CEMENTING DATA

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

Drilled hole size (in.): 8 3/4"	Depth of drilled hole (ft.): 12310'	Est. % wash-out or hole enlargement: 20%
Size of casing in O.D. (in.): 7"	Casing weight (lbs/ft) and grade: 29# P110	No. of centralizers used: 2
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? ☐ YES ☒ NO		Setting depth tool (ft): 6320
Hrs. waiting on cement before drill-out: 10	Calculated top of cement (ft.): 4600	Cementing date: 7/5/2017

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	142	Class C	Remarks-3	349.32	2324.15
2	100	Class H	Remarks-4	125	831.66
3					
Total	242			474.32	3155.81

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDO							
	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

.17%+water 14.04gal/sk-Remarks-2 H Premium 47#/sk+COP2 37#/sk+CR-150 .30%+CFL-300 .34%+CA-400 .42%+CDF-046P .17%+wayer 5.61gal/sk-Remarks-3 C Premium Plus 37.6#/sk+CPOZ 44.4#/sk+CLW-SIF 10#/sk+CLC-CPF .13#/sk+CA-400 .82%+CD-200 .17%+CFL-270 .33%+CDF-046P .17%+water 14.11gal/sk-Remarks-4 H Premium Plus 47#/sk+CPOZ 37#/sk+CFL-300 .34%+CA-400 .42%+CDF-046P.17%+CR-150 30%+water 5.61gal/sk. circulated off dv tool 22 bbl 50 sks.

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.

Service Supervisor Rene Martines	BJ Services, LLC		
Name and title of cementer's representative	Cementing Company	Signature	
11211 FM 2920 RD	Tomball Texas 77375	(281)408-2361	7/5/2017
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	Hobbs, NM, 88240	(575) 393-5905	7-7-17
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 Commisssioner'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 fromt 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&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% (or30% 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 sumbit multiple form W-15s to show all data for multiple parallel strings.

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

RAILROAD COMMISSION OF TEXAS

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

CEMENTING REPORT

Form W-15
Rev. 08/2014

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

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

WELL INFORMATION			
District No.:	08	County:	Winkler
Well No.:	#W101DD	API No.: 42-495-33830	Drilling Permit No.: 824601
Lease Name:	UNIVERSITY B20 12-13	Lease No.:	
Field Name:	Phantom Wolfcamp	Field No.:	71052900

I. CASING CEMENTING DATA

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

Drilled hole size (in.): 6 1/8"	Depth of drilled hole (ft.): 18690	Est. % wash-out or hole enlargement: 20%	
Size of casing in O.D. (in.): 4 1/2"	Casing weight (lbs/ft) and grade: 13.5# P110	No. of centralizers used: none	
Was cement circulated to ground surface (or bottom of cellar) outside casing? If no for surface casing, explain in Remarks. ☑ YES ☐ NO	Setting depth shoe (ft.): 18650	Top of liner (ft.): 11559	
		Setting depth liner (ft.): 18650	
Hrs. waiting on cement before drill-out: none	Calculated top of cement (ft.): 11559	Cementing date: 7/15/2017	

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	325	ALLIED LIGHT CLASS C	SEE REMARKS	1033	SURFACE
2					
3					
Total	325			1033	

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 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? ☐ YES ☐ NO		Setting depth shoe (ft):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:	7/15/2017

SLURRY

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

III. CASING CEMENTING DATA

Type of casing: ☐ 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.) 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? ☐ YES ☐ NO		Setting depth tool (ft):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:	7/15/2017

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
CEMENT ADDITIVES CLW-SIF 10# CR-150.62% CSA-200.54% CSEA3.28% CA-400.74% CA-500 4.10% CFL-270 .99%

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	7/15/2017
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	
4401 Business Park Blvd Hobbs, NM 88240		575-393-5905	7-17-2017
Address	City, State, Zip Code	Tel: Area Code Number	Date: mo. Day yr.

Instructions for Form W-15, Cementing Report

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D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or30% 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 sumbit 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
Oil and Gas Division

ELECTRIC LOG STATUS REPORT

FORM L-1

Tracking No.: 179437

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: 08/24/2017
Field Name PHANTOM (WOLFCAMP)	Drilling Permit No. 824601	
Lease Name UNIVERSITY B20 12/13	Lease/ID No. 49211	Well No. W101DD
County WINKLER	API No. **42-** 495-33830	

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	Analyst Title
MEWBOURNE OIL COMPANY Name (print)	(903) 561-2900 Phone 09/15/2017 Date

-FOR RAILROAD COMMISSION USE ONLY-

Stryker Energy Directional Services

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

University B20 12-13 #W101DD

Scale 5":100' - MD

7/12/2017 9:05 PM

Oper. Company: Mewbourne Oil Company
Well: University B20 12-13 #W101DD
Field: Wolfcamp
Rig: Patterson #220
Well ID: 42-495-33830
Job Number: M171044

State: Texas
County: Winkler
Country: The United States Of America
Location: 8.2 miles W direction from Wink
Start Date: 07/02/2017 17:45:00
End Date: 08/12/2017 20:30:56

Latitude: 31.7455461
Longitude: -103.2971351

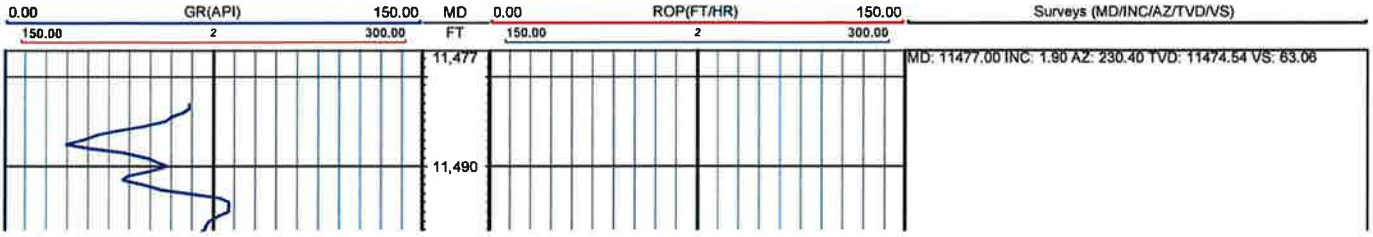
Elev GL: 2826
Elev DF: 2853
Elev KB: 2853

Operator 1: John Bult

Operator 2: Chris Alley

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	SES 001	SES 056	SES 056		
Bit Size	8 3/4	6 1/8	6 1/8		
Cal Factor	3.5	2.25	2.25		
Survey Offset	45.00	51.00	51.00		
Gamma Offset	42.00	48.00	48.00		
Resisitivity Offset	0.00	0.00	0.00		
Start Depth	11525.00	12310.00	13447.00		
StartDate	7/2/2017	7/6/2017	7/9/2017		
StartTime	17:45	22:55	12:00		
EndDepth	12310.00	13447.00	18690.00		
EndDate	7/3/2017	7/8/2017	7/12/2017		
EndTime	20:00	22:01	20:30		
Mud Type	WBM	OBM	OBM		
Mud Weight	9.5	13.5	13.6		
Funnel Viscosity	29	120	60		
Plastic Viscosity	2	26	35		
Yield Point	1	11	14		
Solids Content	1.4	8.8	24.1		
Sand Content	TR	TR	TR		
Chlorides	110,000	35,000	55,000		
Temperature	138	176	197		

Hole Data			Casing Data		
Size	From	To	Size	From	To
17 1/2	0.00	347.00	13 5/8	0.00	322.00
12 1/4	347.00	5124.00	9 5/8	0.00	5014.00
8 3/4	5124.00	12310.00	7	0.00	12297.00
6 1/8	12310.00	18690.00			



RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
PO Box 12967
Austin TX 78711-2967
www.rrc.texas.gov

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.: 179437

1. Field name exactly as shown on proration schedule	2. Lease name as shown on proration schedule			
PHANTOM (WOLFCAMP)	UNIVERSITY B20 12/13			
3. Current operator name exactly as shown on P-5 Organization Report	4. Operator P-5 no.	5. Oil Lse/Gas ID no	6. County	7. RRC district
MEWBOURNE OIL COMPANY	562560	49211	WINKLER	08
8. Operator address including city, state, and zip code	9. Well no(s) *(see instruction E)*			
BOX 7698 TYLER, TX 75711	W101DD			
	10. Classification ☒ Oil ☐ Gas ☐ Other *(see instruction A)*		11. Effective Date	08/24/2017

12. Purpose of Filing. (Complete section a or b below.) *(See instructions B and G)*

a. Change of: ☐ operator ☐ oil or condensate gatherer ☐ gas gatherer ☐ gas purchaser ☐ gas purchaser system code
☐ field name from _____
☐ lease name from _____

OR

b. New RRC Number for: ☒ oil lease ☐ gas well ☐ other well (specify) _____ **Due to:** ☒ new completion or recompletion ☐ reclass oil to gas ☐ reclass gas to oil ☐ consolidation, unitization, or subdivision (oil lease only)

13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). *(See instruction G).*

Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left *(Attach an additional sheet in same format if more space is needed)*	Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream
X	X	TARGA DELAWARE LLC(836022)	0001	100.0	

14. Authorized OIL or CONDENSATE Gatherer(s). *(See instruction G).*

Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First *(Attach an additional sheet in same format if more space is needed)*	Percent of Take
EASTEX CRUDE COMPANY(239232)	34.0
SHELL TRADING (US) COMPANY(774715)	33.0
PLAINS PIPELINE L.P.(667884)	33.0

RRC USE ONLY: Reviewer's initials: RRC Staff Approval date: 01/22/2018

15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.

Name of Previous Operator

Name (print)

Title

Signature

☐ **Authorized Employee of previous operator**

☐ **Authorized agent of previous operator** *(see instruction G)*

Date

Phone with area code

16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.

MEWBOURNE OIL COMPANY
Name (print)

Analyst
Title

jburns@mewbourne.com
E-mail Address (optional)

Janet Burns
Signature

☒ **Authorized Employee of current operator**

☐ **Authorized agent of current operator** *(see instruction G)*

09/15/2017
Date

(903) 561-2900
Phone with area code

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
PO Box 12967
Austin, Texas 78711-2967
www.rrc.texas.gov

CERTIFICATE OF POOLING AUTHORITY

Revised 05/2001

P-12

1. Field Name(s)	2. Lease/ID Number *(if assigned)*	3. RRC District Number
PHANTOM (WOLFCAMP)		08
4. Operator Name	**5. Operator P-5 Number**	**6. Well Number**
MEWBOURNE OIL COMPANY	562560	W101DD
7. Pooled Unit Name	**8. API Number**	**9. Purpose of Filing**
UNIVERSITY B20 12/13	42-495-33830	☐ Drilling Permit (W-1)
10. County	**11. Total acres in pooled unit**	☒ Completion Report
WINKLER	180.196	

DESCRIPTION OF INDIVIDUAL TRACTS CONTAINED WITHIN THE POOLED UNIT

Tract/Plat Identifier	Tract Name	Acres in Tract *(See inst. #7 below)*	Indicate Undivided Interests Unleased	Non-Pooled
*1	UNIVERSITY LANDS	140.152	☐	☐
2	UNIVERSITY LANDS	40.044	☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐

CERTIFICATION:

I declare under penalties prescribed pursuant to the Sec. 91.143, Texas Natural Resources Code, that I am authorized to make the foregoing statements and that the information provided by me or under my direction on this Certificate of Pooling Authority is true, correct, and complete to the best of my knowledge.

Signature	Print Name
	Janet Burns
Title	**E-mail *(if available)***
Reg. Tech.	
Date	**Phone**
9/15/17	(903) 561-2900

INSTRUCTIONS — Reference: Statewide Rules 31, 38 and 40

1. When two or more tracts are pooled to form a unit to obtain a drilling permit, file completion paperwork, or reform a pooled unit pursuant to Rule 38(d)(3) the operator must file an original Certificate of Pooling Authority and certified plat.
2. The certified plat shall designate each tract with an outline and a tract identifier. The tract identifier on the plat shall correspond to the tract identifier and associated information listed on the Certificate.
3. If within an individual tract, a non-pooled and/or unleased interest exists, indicate by checking the appropriate box.
4. If the Purpose of Filing is to obtain a drilling permit, in box #1 list all applicable fields separately or enter "All Fields" if the Certificate pertains to all fields requested on Form W-1.
5. If the Purpose of Filing is to file completion paperwork, enter the applicable field name in box #1 for the completion.
6. Identify the drill site tract with an * to the left of the tract identifier.
7. The total number of acres in the pooled unit in #11 should equal the total of all acres in the individual tracts listed.

STATEMENT OF PRODUCTIVITY OF ACREAGE ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 179437

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 (OPERATOR), UNIVERSITY B20 12/13 (LEASE), No. W101DD (WELL); that such well is 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 180.196 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 09/15/2017 Signature Janet Burns

Telephone (903) 561-2900 (AREA CODE) Title Analyst

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: P. O. BOX 7698, TYLER, TX 75711	

SECTION II. WELL INFORMATION

District No.: 08	**County:** WINKLER	**Purpose of Filing:**
Well No.: W101DD	**API No.:** 42-495-33830	☐ Drilling Permit Application (Form W-1)
Total Lease Acres: 180.196	**Drilling Permit No.:** 824601	■ Completion Report (Form G-1/W-2)
Lease Name: UNIVERSITY B20 12/13	**Lease No.:**	
Field Name: PHANTOM (WOLFCAMP)	**Field No.:** 71052900	

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

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

RRC ID No. or Lease No.	Well No.	H-Horizontal D-Directional V-Vertical	Lease Name	API No.	Acres Assigned	SWR 38 Except. (Y/N)	Operator Name and Operator No. (if different from filing operator)
Pending	W101DD	H	UNIVERSITY B20 12/13	42-495-33830	180.196	N	

Total Well Count >	1	180.196	**< A. Total Assigned Horiz. Acreage**	180.196	**< C. Total Assigned Acreage**
		0	**< Total Remaining Horiz. Acreage**	0	**< Total Remaining Acreage**
		0	**< B. Total Assigned Vert./Dir. Acreage**		
		180.196	**< Total Remaining Vert./Dir. Acreage**		

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.

Signature	Janet Burns Reg. Tech. (Name and title (type or print))	Email (include email address *only* if you affirmatively consent to its public release)

Address	City,	State,	Zip Code	Tel: Area Code	Number	Date: mo. day yr.
P. O. Box 7698	Tyler	TX	75711	903	561-2900	9/15/17

GROUNDWATER PROTECTION DETERMINATION

Form GW-2

Groundwater Advisory Unit

Date Issued:	21 March 2016	**GAU Number:**	152491
Attention:	MEWBOURNE OIL COMPANY BOX 7698 TYLER, TX 75711	**API Number:**	
		County:	WINKLER
		Lease Name:	University B20 1
		Lease Number:	
Operator No.:	562560	**Well Number:**	W101MD
		Total Vertical Depth:	12500
		Latitude:	31.745417
		Longitude:	-103.296686
		Datum:	NAD27
Purpose:	New Drill		
Location:	Survey-UL; Block-20; Section-1	465' FSL & 330' FWL	

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 Alluvium, which is estimated to occur at a depth of 325 feet, must be protected.

This recommendation is applicable for all wells drilled in this Section 1 on this Lease.

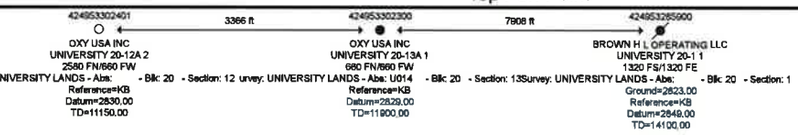
Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

This determination is based on information provided when the application was submitted on 03/17/2016. 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.

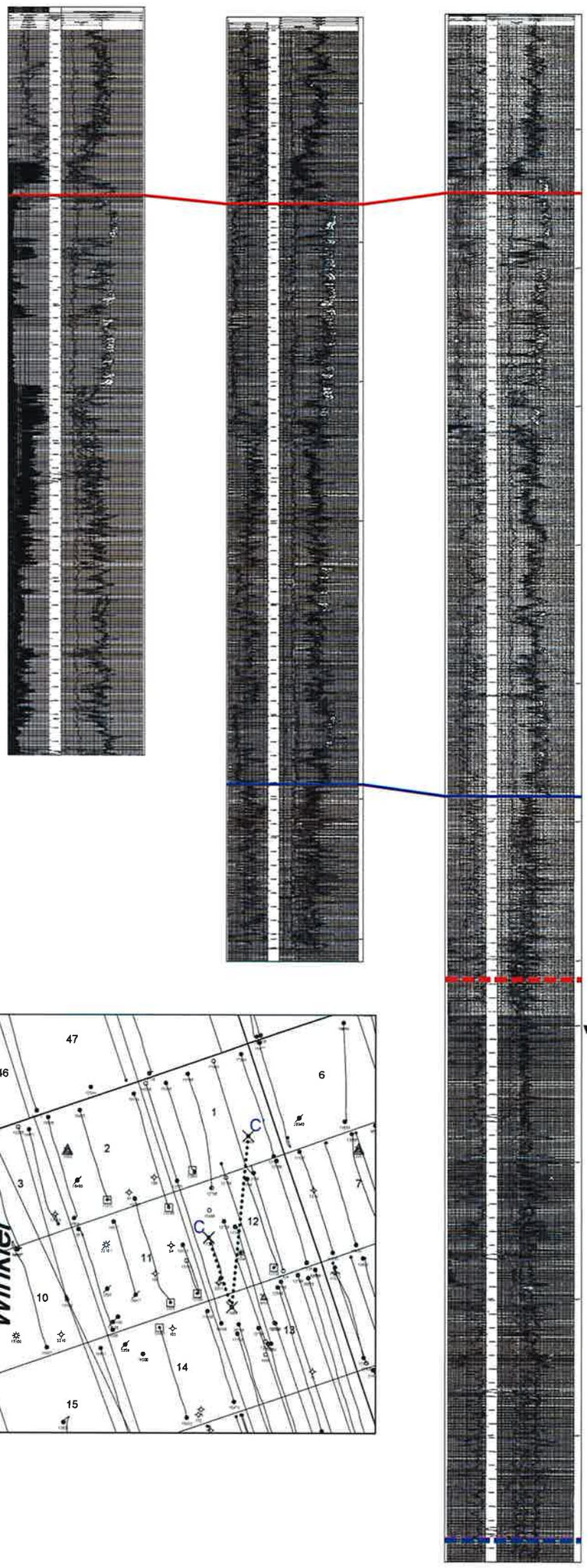
Groundwater Advisory Unit, Oil and Gas Division

Mewbourne Oil Company
University B20 12/13 #W101DD
Top Perf Point

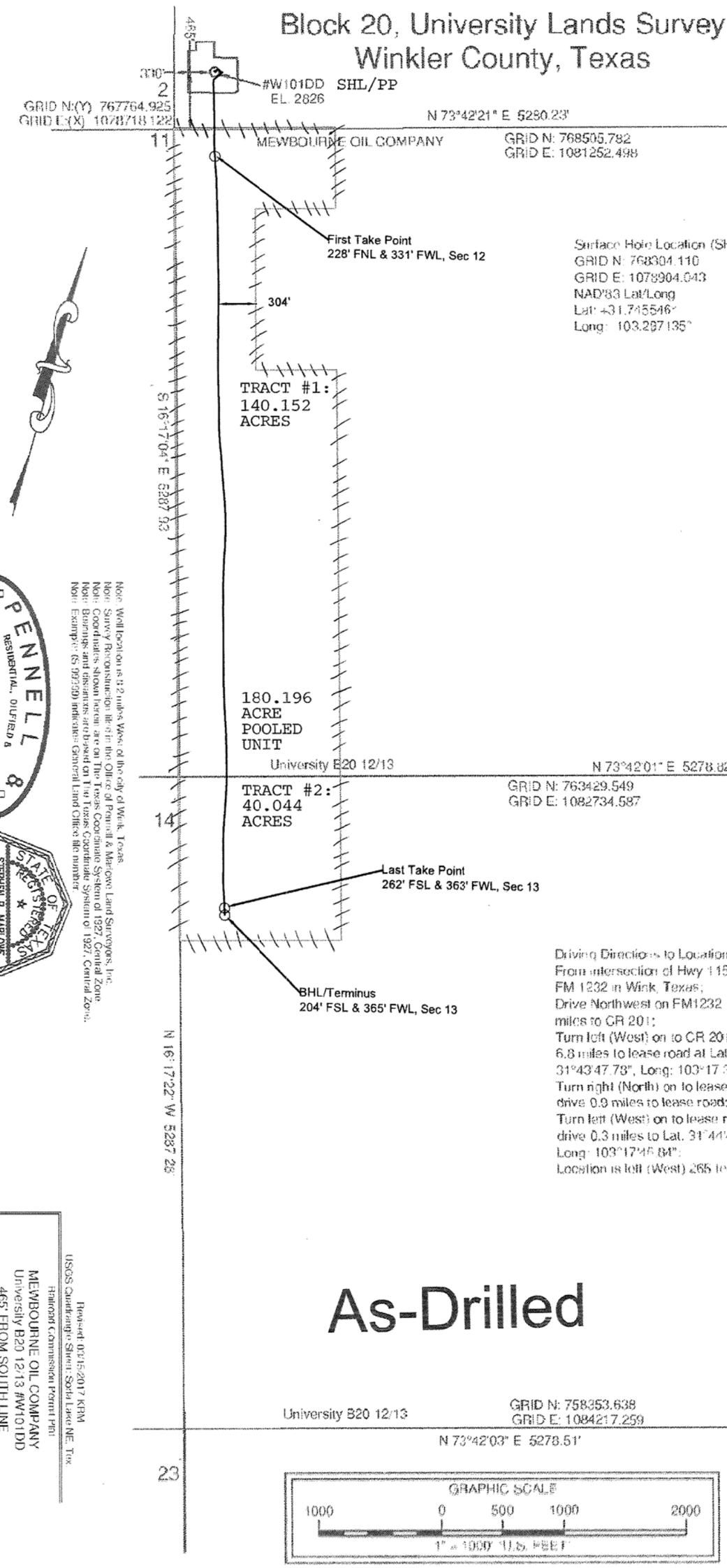
C



C'



Block 20, University Lands Survey
Winkler County, Texas



Note: Well location is 12 miles West of the city of Wink, Texas.
Note: Survey Reconstruction file is in the Office of Pennell & Marlowe Land Surveyors, Inc.
Note: Coordinates shown hereon 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: Examples (Ex 99999) indicate General Land Office file number.

PENNELL & MARLOWE
RESIDENTIAL, OILFIELD & ALL TYPES OF SURVEYS
LAND SURVEYORS, INC.

STATE OF TEXAS
REGISTERED
STEPHEN P. MARLOWE
5715
PROFESSIONAL LAND SURVEYOR

Stephen P. Marlowe
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5715

P.O. Box 51887, Midland, Texas 797-10 (432) 262-0901 Fax (432) 262-0679 Firm #100201 00

January 11, 2016
160111P4 KRM

Revised 03-15-2017 KRM
USGS Quadrangle Sheet: Soda Lake NE, Tex.
Railroad Commission Permit PBD

MEWBOURNE OIL COMPANY
University B20 12/13 #W101DD
465' FROM SOUTH LINE
330' FROM WEST LINE
of Section 1, Block 20
University B20 12/13 Lease
641.1 Acres being the W/2 of
Section 12 &13, Block 20
University Lands Survey
Winkler County, Texas
Scale: 1" = 1000'

As-Drilled