



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 11/29/2017
Tracking No.: 182072

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

OPERATOR INFORMATION

Operator Name: SABLE PERMIAN RESOURCES LAND,LLC Operator No.: 742252
Operator Address: 700 MILAM STREET SUITE 3100 HOUSTON, TX 77002-0000

WELL INFORMATION

API No.: 42-383-39829 County: REAGAN
Well No.: 932HA RRC District No.: 7C
Lease Name: UNIVERSITY 11 RE Field Name: LIN (WOLFCAMP)
RRC Lease No.: 18457 Field No.: 53613750
Location: Section: 33, Block: 10, Survey: UL, Abstract: U239

Latitude: 31.215619 Longitude: -101.502487
This well is located 2.97 miles in a NW
direction from BIG LAKE,
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Well Record Only
Type of completion: New Well
Well Type: Shut-In Producer Completion or Recompletion Date: 05/01/2017

Type of Permit Date Permit No.
Permit to Drill, Plug Back, or Deepen 03/17/2017 824235
Rule 37 Exception
Fluid Injection Permit
O&G Waste Disposal Permit
Other:

COMPLETION INFORMATION

Spud date: 03/28/2017 Date of first production after rig released: 05/01/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 03/28/2017 Date plug back, deepening, recompletion, or drilling operation ended: 05/01/2017
Number of producing wells on this lease in this field (reservoir) including this well: 3 Distance to nearest well in lease & reservoir (ft.): 428.0
Total number of acres in lease: 3214.83 Elevation (ft.): 2666 GL
Total depth TVD (ft.): 7588 Total depth MD (ft.): 17833
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): 153.0
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 Off Lease : No
of lease on which this well is located: 548.0 Feet from the South Line and
567.0 Feet from the East Line of the
UNIVERSITY 11 RE 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

FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:			
GAU Groundwater Protection Determination	Depth (ft.):	850.0	Date: 03/17/2017
SWR 13 Exception	Depth (ft.):		

Date of test:	Production method:
Number of hours tested: 24	Choke size:
Was swab used during this test? No	Oil produced prior to test:
PRODUCTION DURING TEST PERIOD:	
Oil (BBLS):	Gas (MCF):
Gas - Oil Ratio: 0	Flowing Tubing Pressure:
Water (BBLS):	
CALCULATED 24-HOUR RATE	
Oil (BBLS):	Gas (MCF):
Oil Gravity - API - 60.:	Casing Pressure:
Water (BBLS):	

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	1020			CLASS C	1290	2127.0	0	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	4224			CLASS C	1400	3466.0	2079	Calculation
3	Conventional Production	5 1/2	8 3/4	17832			CLASS H	3160	5031.0	0	Circulated to Surface

<u>Row</u>	<u>Liner Size (in.)</u>	<u>Hole Size (in.)</u>	<u>Liner Top (ft.)</u>	<u>Liner Bottom (ft.)</u>	<u>Cement Class</u>	<u>Cement Amount (sacks)</u>	<u>Slurry Volume (cu. ft.)</u>	<u>Top of Cement (ft.)</u>	<u>TOC Determined By</u>
N/A									

<u>Row</u>	<u>Size (in.)</u>	<u>Depth Size (ft.)</u>	<u>Packer Depth (ft.)/Type</u> /
N/A			

<u>Row</u>	<u>Open hole?</u>	<u>From (ft.)</u>	<u>To (ft.)</u>
1	No	L1 7930	17641.0

Was hydraulic fracturing treatment performed?		Yes
Is well equipped with a downhole actuation sleeve?		No
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:		9800
Actual maximum pressure (PSIG) during hydraulic fracturing:		2000
Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)?		Yes
<u>Row</u>	<u>Type of Operation</u>	<u>Amount and Kind of Material Used</u>
		<u>Depth Interval (ft.)</u>

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
GRAYBURG	Yes	2364.0	2378.0	Yes	
QUEEN	Yes	1801.0	1807.0	Yes	
SAN ANDRES - SALTWATER FLOW, POSSIBLY HEAVY CLEARFORK	Yes	2868.0	2890.0	Yes	
	No			No	DID NOT ENCOUNTER. PINCHED OUT.
SPRABERRY	Yes	5669.0	6191.0	Yes	
STRAWN	No			No	BELOW TVD.
FUSSELMAN	No			No	BELOW TVD.
ELLENBURGER	No			No	BELOW TVD.
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

WELL IS BEING FRAC'D AT THIS TIME. HAS BEEN PERFORATED. WILL SEND W-2 IP AS SOON AS WELL TURNS TO PRODUCTION.

RRC REMARKS

PUBLIC COMMENTS:

[RRC Staff 2017-11-08 10:23:13.578] Well-record-only approved with 0 max acres due to lacking complete as-drilled plat. The operator must provide a complete as-drilled plat when filing the initial potential. The location of the current perfs has been reviewed and is approved based on the permitted plat.

CASING RECORD :

TUBING RECORD:

WELL IS FRACKING. WILL SET TUBING WHEN COMPLETED.

PRODUCING/INJECTION/DISPOSAL INTERVAL :

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

POTENTIAL TEST DATA:

OPERATOR'S CERTIFICATION

Printed Name: Rena Carter

Title: Regulatory Specialist

Telephone No.: (713) 806-1486

Date Certified: 11/09/2017



RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

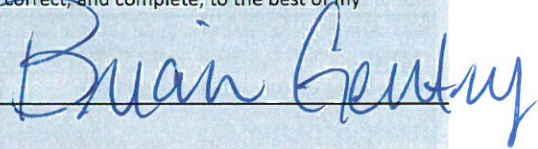
Cementer: Fill in
Operator: Fill in other

OPERATOR INFORMATION					
Operator Name: Permian Resources LLC - Sable Permian Resources Land, LLC			Operator P-5 No.: 655836 742252		
Cementer Name: Crest Pumping Technologies			Cementer P-5 No.: 189898		
WELL INFORMATION					
District No.: 7C		County: Reagan			
Well No.: 932HS		API No.: 42-383-39829		Drilling Permit No.: 824235	
Lease Name: University 11 RE		Lease No.:			
Field Name: Lin (Wolfcamp)		Field No.: 53613750			
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.): 1022		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.): 13 3/8		Casing weight (lbs/ft) and grade: 54.5/J-55		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 If no for surface casing, explain in Remarks.				Setting depth shoe (ft.): 1020	
				Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out: 9		Calculated top of cement (ft.): 0		Cementing date: 03/30/17	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	790	Class C	See Remarks	1,462	2,105
2	500	Class C	See Remarks	665	957
Total	1,290			2,127	3,062
II. CASING CEMENTING DATA					
Type of Casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered Production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.) Upper: Lower:		Tapered string depth of drilled hole (ft.) Upper: Lower:			
Tapered string size of casing in O.D. (in.) Upper: Lower:		Tapered string casing weight (lbs/ft) and grade Upper: Lower:		Tapered string no. of centralizers used Upper: Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.				Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
Total					
III. CASING CEMENTING DATA					
Type of Casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered Production <input type="checkbox"/> Multi-stage cement/DV Tool <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.) Upper: Lower:		Tapered string depth of drilled hole (ft.) Upper: Lower:			
Tapered string size of casing in O.D. (in.) Upper: Lower:		Tapered string casing weight (lbs/ft) and grade Upper: Lower:		Tapered string no. of centralizers used Upper: Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.				Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
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							

3 bwow Sodium Chloride, 6 % Bentonite Gel, 0.5 lbs/sk Cellophane Flake,
2 % Calcium Chloride, 0.5 lbs/sk Cellophane Flake,

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.

Brian Gentry/Cementer	Zachary Leatherwood/Cementer	Crest Pumping Technologies	
Name and title of cementer's representative	Cementing Company	Signature	
P.O. Box 117 Jacksboro, TX 76458		940-567-3392	03/29/2017
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.

Rian Hinds	Regulatory Technician	
Typed or printed name of operator's representative	Title	Signature
PO Box 14670 OKC, OK 73113		4059684451
Address City, State, Zip Code		5/30/2017
	Tel: Area Code Number	Date: mo. day yr.

Instructions for Form W-15, Cementing Report

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

- A. What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- C. Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission. To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- D. Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- E. Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool. and Multi-stage cement shoe. The operator must
- F. Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- G. Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

CEMENTING REPORT


Cementer: Fill in
Operator: Fill in other

OPERATOR INFORMATION						
Operator Name: Permian Resources LLC - Sable Permian Resources Land, LLC			Operator P-5 No.: 655036 742252			
Cementer Name: Crest Pumping Technologies			Cementer P-5 No.: 189898			
WELL INFORMATION						
District No.: 7C		County: Reagan				
Well No.: 932HA		API No.: 42-383-39829		Drilling Permit No.: 824235		
Lease Name: University 11 RE		Lease No.:				
Field Name: Lin (Wolfcamp)		Field No.: 53613750				
I. CASING CEMENTING DATA						
Type of Casing:	Conductor	Surface	<input checked="" type="checkbox"/> Intermediate	Liner	Production	
Drilled hole size (in.):	12 1/4	Depth of drilled hole (ft.):	4,228	Est. % wash-out or hole enlargement: 70%		
Size of casing in O.D. (in.):	9 5/8	Casing weight (lbs/ft) and grade:	40/HCK-55	No. of centralizers used: 37		
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> If no for surface casing, explain in Remarks.			Setting depth shoe (ft.):	Top of liner (ft.):		
			4,224			
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date: 04/18/17		
		2079				
SLURRY						
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)	
1	1200	Class C	See Remarks	3,144	10,039	
2	200	Class C	See Remarks	322	1,028	
Total	1,400			3,466	11,067	
II. CASING CEMENTING DATA						
Type of Casing:	Surface	Intermediate	Production	Tapered Production	Multi-stage cement shoe	Multiple parallel strings
Drilled hole size (in.):	Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:			
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:		No. of centralizers used:			
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)				
Upper: Lower:		Upper: Lower:				
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used		
Upper: Lower:		Upper: Lower:		Upper: Lower:		
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES <input type="checkbox"/> NO <input type="checkbox"/> If no for surface casing, explain in Remarks.			Setting depth shoe (ft.):			
Hrs. waiting on cement before drill-out:			Calculated top of cement (ft.):		Cementing date:	
SLURRY						
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)	
Total						
III. CASING CEMENTING DATA						
Type of Casing:	Surface	Intermediate	Production	Tapered Production	Multi-stage cement/DV Tool	Multiple parallel strings
Drilled hole size (in.):	Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:			
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:		No. of centralizers used:			
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)				
Upper: Lower:		Upper: Lower:				
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used		
Upper: Lower:		Upper: Lower:		Upper: Lower:		
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES <input type="checkbox"/> NO <input type="checkbox"/> If no for surface casing, explain in Remarks.			Setting depth shoe (ft.):			
Hrs. waiting on cement before drill-out:			Calculated top of cement (ft.):		Cementing date:	
SLURRY						
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)	
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							

5 lbw Sodium Chloride, 7 % Bentonite Gel, 0.05 % Geovis XT, 0.25 % CPT-503P, 0.7 lbs/sk Dura Fiber, 4 lbs/sk Kol Seal,
 3 lbw Sodium Chloride, 1 % Bentonite Gel, 0.3 % CPT-19, 0.4 % CD-3, 4 lbs/sk Kol Seal, 0.15 % CPT-20A,

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.

Deseree McCarter/Cementer	Juan Garza/Cementer	Crest Pumping Technologies	
Name and title of cementer's representative	Cementing Company		Signature
P.O. Box 117 Jacksboro, TX 76458		940-567-3392	04/17/2017
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.

Rian Hinds	Regulatory Technician	
Typed or printed name of operator's representative	Title	Signature
PO Box 14670 OKC OK 73113		405-968-4451 5/30/2017
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 representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. How to file: An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System

(<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).

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

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

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

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

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

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



RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

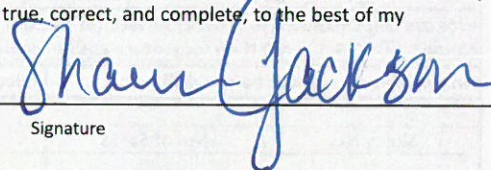
Cementer: Fill in
Operator: Fill in other

OPERATOR INFORMATION					
Operator Name: Permian Resources LLC			Operator P-5 No.: 655836		
Cementer Name: Crest Pumping Technologies			Cementer P-5 No.: 189898		
WELL INFORMATION					
District No.: 7C			County: Reagan		
Well No.: 932 HA			API No.: 42-383-39829		Drilling Permit No.: 824235
Lease Name: University 11 RE			Lease No.:		
Field Name: Lin (Wolfcamp)			Field No.: 53613750		
I. CASING CEMENTING DATA					
Type of Casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input checked="" type="checkbox"/> Production					
Drilled hole size (in.): 8 3/4		Depth of drilled hole (ft.): 17,833		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.): 5 1/2		Casing weight (lbs/ft) and grade: 17/CYO-110		No. of centralizers used: 165	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.				Setting depth shoe (ft.): 17,832	
				Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out: 9		Calculated top of cement (ft.): 0		Cementing date: 04/30/17	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	590	Class H	See Remarks	1,741	6,893
2	2570	Class H	See Remarks	3,290	13,025
Total	3,160			5,031	19,918
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 depth of drilled hole (ft.)			
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:		Lower:		Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth shoe (ft.):	
If no for surface casing, explain in Remarks.					
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
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:			
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:		Lower:		Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth shoe (ft.):	
If no for surface casing, explain in Remarks.					
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
Total					

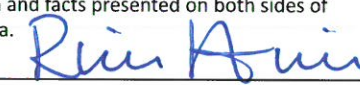
CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount 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							

5 bwow Sodium Chloride, 1 % CPT-19, 2.5 % CPT-45, 0.4 % CPT-503P, 5 % Gypsum, 0.3 % CPT-20A, 0.3 % Citric Acid,
 10 bwow Sodium Chloride, 2 % Bentonite Gel, 0.4 % CPT-12, 0.95 % CPT-15, 0.05 % CPT-20A,
 5 Gallons CPT-21L, 38 Gallons Coreplex 300, 38 Gallons Biocide,

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.

Shaun Jackson/Cementer	Crest Pumping Technologies	
Name and title of cementer's representative	Cementing Company	Signature
P.O. Box 117 Jacksboro, TX 76458	940-567-3392	04/28/2017
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.

Rian Hinds	Regulatory Technician	
Typed or printed name of operator's representative	Title	Signature
PO Box 14670 OKC, OK 73120	405-968-4451	5/8/2017
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 representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. How to file: An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).

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

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

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

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

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.

Tracking No.: 182072

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: SABLE PERMIAN RESOURCES LAND,LLC	District No. 7C	Completion Date: 05/01/2017
Field Name LIN (WOLFCAMP)	Drilling Permit No. 824235	
Lease Name UNIVERSITY 11 RE	Lease/ID No. 18457	Well No. 932HA
County REAGAN	API No. 42- 383-39829	

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). _____

Rena Carter

Signature

SABLE PERMIAN RESOURCES LAND,LLC

Name (print)

Regulatory Specialist

Title

(713) 806-1486

Phone

11/02/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-

**QES DIRECTIONAL DRILLING**

Permian Resources
PO Box 54526
Oklahoma City, OK 73154

UNIVERSITY 11 RE 932HA

Scale 5"=100' - MD
4/28/2017 7:11 AM

Oper. Company: PERMIAN RESOURCES
Well: UNIVERSITY 11 RE 932HA
Field: WOLF CAMP
Rig: UNIT 407
Well ID: 42363396290000
Job Number: WWT-170353

State: TEXAS
County: REAGAN
Country: USA
Location: UNIVERSITY LANDS, BLOCK 10, SEC. 33
Start Date: 04/15/2017 10:00:00
End Date: 04/28/2017 05:15:14

Latitude: 31° 12' 56.227" N
Longitude: 101° 30' 8.954" W

Dev GL: 2666'
Dev DF: 2687'
Dev KB: 2,100'

Operator 1: Jeff Leschick

Operator 2: Wendell Sikes

Hole Data			Casing Data		
Size	From	To	Size	From	To
17 1/2	0.00	1022.00	13 3/8	0.00	1022.00
12 1/4	1022.00	4240.00	9 5/8	0.00	4229.00
8 3/4	4240.00	17833.00	5 1/2	0.00	17833.00

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

CERTIFICATE OF COMPLIANCE AND TRANSPORTATION AUTHORITY

P-4

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

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

Tracking No.: 182072

1. Field name exactly as shown on proration schedule LIN (WOLFCAMP)		2. Lease name as shown on proration schedule UNIVERSITY 11 RE					
3. Current operator name exactly as shown on P-5 Organization Report SABLE PERMIAN RESOURCES LAND,LLC		4. Operator P-5 no. 742252	5. Oil Lse/Gas ID no 18457	6. County REAGAN	7. RRC district 7C		
8. Operator address including city, state, and zip code 700 MILAM STREET SUITE 3100 HOUSTON, TX 77002		9. Well no(s) (see instruction E) 932HA					
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G) a. Change of: <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code <input type="checkbox"/> field name from _____ <input type="checkbox"/> lease name from _____ --- OR --- b. New RRC Number for: <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well Due to: <input type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> other well (specify) _____ <input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only)		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)		11. Effective Date 05/01/2017			
13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). (See instruction G).							
Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left (Attach an additional sheet in same format if more space is needed)			Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream
X	X	DCP OPERATING COMPANY, LP(195959)			0001	100.0	
14. Authorized OIL or CONDENSATE Gatherer(s). (See instruction G).							
Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First (Attach an additional sheet in same format if more space is needed)						Percent of Take	
PLAINS MARKETING, L.P.(667883)						100.0	
RRC USE ONLY: Reviewer's initials: <u>RRC Staff</u> Approval date: <u>11/29/2017</u>							
15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.							
Name of Previous Operator _____ Name (print) _____ Title _____				Signature <input type="checkbox"/> Authorized Employee of previous operator <input type="checkbox"/> Authorized agent of previous operator (see instruction G) _____ Date _____ Phone with area code _____			
16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.							
SABLE PERMIAN RESOURCES LAND,LLC Name (print) <u>Regulatory Specialist</u> Title <u>rcarter@sableres.com</u> E-mail Address (optional)				Rena Carter Signature <input type="checkbox"/> Authorized Employee of current operator <input checked="" type="checkbox"/> Authorized agent of current operator (see instruction G) <u>11/02/2017</u> Date <u>(713) 806-1486</u> Phone with area code			

**CERTIFICATE OF
POOLING AUTHORITY**

Revised 05/2001

P-12

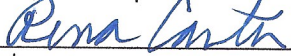
1. Field Name(s) Lin (Wolfcamp)	2. Lease/ID Number (if assigned) 18457	3. RRC District Number 7C
4. Operator Name Sable Permian Resources Land, LLC	5. Operator P-5 Number 655836	6. Well Number 932HA
7. Pooled Unit Name University 11 RE	8. API Number 42-383-39829	9. Purpose of Filing <input type="checkbox"/> Drilling Permit (W-1) <input checked="" type="checkbox"/> Completion Report
10. County Reagan	11. Total acres in pooled unit 3214.8	

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
	University Lands	320.375	<input type="checkbox"/>	<input type="checkbox"/>
	University Lands	641.5	<input type="checkbox"/>	<input type="checkbox"/>
	University Lands	641.5	<input type="checkbox"/>	<input type="checkbox"/>
	University Lands	641.5	<input type="checkbox"/>	<input type="checkbox"/>
	University Lands	641.5	<input type="checkbox"/>	<input type="checkbox"/>
	University Lands	328.45	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

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.

	Rena Carter
Signature	Print Name
Sr. Regulatory Specialist	10/19/2017
Title	Date
rcarter@sableres.com	(405) 850-9580
E-mail (if available)	Phone

INSTRUCTIONS — Reference: Statewide Rules 31, 38 and 40

- 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.
- 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.
- If within an individual tract, a non-pooled and/or unleased interest exists, indicate by checking the appropriate box.
- 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.
- If the Purpose of Filing is to file completion paperwork, enter the applicable field name in box #1 for the completion.
- Identify the drill site tract with an * to the left of the tract identifier.
- The total number of acres in the pooled unit in #11 should equal the total of all acres in the individual tracts listed.

Clear Form

Page ____ of ____

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: Sable Permian Resources Land,LLC	Operator P-5 No.: 742252
Operator Address: 700 Milam St. Houston, TX. 77002	

SECTION II. WELL INFORMATION

District No.: 7C	County: Reagan	Purpose of Filing: <input type="checkbox"/> Drilling Permit Application (Form W-1) <input checked="" type="checkbox"/> Completion Report (Form G-1/W-2)
Well No.: 932HA	API No.: 42-383-39829	
Total Lease Acres: 3214.825	Drilling Permit No.: 824235	
Lease Name: University 11 RE	Lease No.:	
Field Name: Lin (Wolfcamp)	Field No.: 53613750	

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

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

[illegible]


Total Well Count >	6	540	< A. Total Assigned Horiz. Acreage	540	< C. Total Assigned Acreage
		2674.825	< Total Remaining Horiz. Acreage	2674.825	< Total Remaining Acreage
			< B. Total Assigned Vert./Dir. Acreage		
			< 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	Name and title (type or print)	Email (include email address <i>only</i> if you affirmatively consent to its public release)
	Rena Carter Sr. Regulatory Specialist	rcarter@sablere.com

700 Milam St. Ste 3100	Houston	TX	77002	405	850-9580	11/02/2017
Address	City,	State,	Zip Code	Tel: Area Code	Number	Date: mo. day yr.

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 17 March 2017**GAU Number:** 169038**Attention:** PERMIAN RESOURCES, LLC
PO BOX 14670
OKLAHOMA CITY, OK 73113**Operator No.:** 655836**API Number:** 38339829
County: REAGAN
Lease Name: University 11 RE
Lease Number:
Well Number: 932HA
Total Vertical Depth: 9000
Latitude: 31.215619
Longitude: -101.502487
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Block-10; Section-33

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 Santa Rosa, which is estimated to occur at a depth between 800 and 850 feet, must be protected.

This recommendation is applicable for all wells drilled in this SE/4 of sec. 33.

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 03/16/2017. 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

Form GW-2 P.O. Box 12967 Austin, Texas 78771-2967 512-463-2741 Internet address: www.rrc.texas.gov
Rev. 02/2014

NAD 27, Central Zone 4203
Surface Hole Location (Sec. 33)
Latitude: 31.215619° N
Longitude: 101.502487° W
X=1634531.51
Y=565251.81
Elev.=2666'
548' FSL & 567' FEL

Point of Penetration (Sec. 4)
Latitude: 31.214081° N
Longitude: 101.503842° W
X=1634102.21
Y=564696.83
15' FNL & 985' FEL

First Take Point (Sec. 4)
Latitude: 31.213847° N
Longitude: 101.503844° W
X=1634100.48
Y=564611.85
100' FNL & 985' FEL

Last Take Point (Sec. 9)
Latitude: 31.185251° N
Longitude: 101.504172° W
X=1633888.62
Y=554213.19
100' FSL & 986' FEL

Bottom Hole Location (Sec. 9)
Latitude: 31.185017° N
Longitude: 101.504175° W
X=1633886.88
Y=554128.20
15' FSL & 986' FEL

Unit Boundary Distance	
SHL	Out Of Unit
PP	15' FNL & 985' FEL
FTP	100' FNL & 985' FEL
LTP	100' FSL & 986' FEL
BHL	15' FSL & 986' FEL

NOTE: This Plat does not, in anyway represent a "Boundary Survey", and does not comply with the current T.B.P.L.S. Minimum Standards of Procedures for Boundary Survey. Acreage shown herein were furnished by others. The Information contained on this plat is intended for the sole use of PERMIAN RESOURCES, LLC.

NOTE: Bearings and coordinates refer to the Texas Coordinate System of 1927, Central Zone (4203), as observed by GPS observations

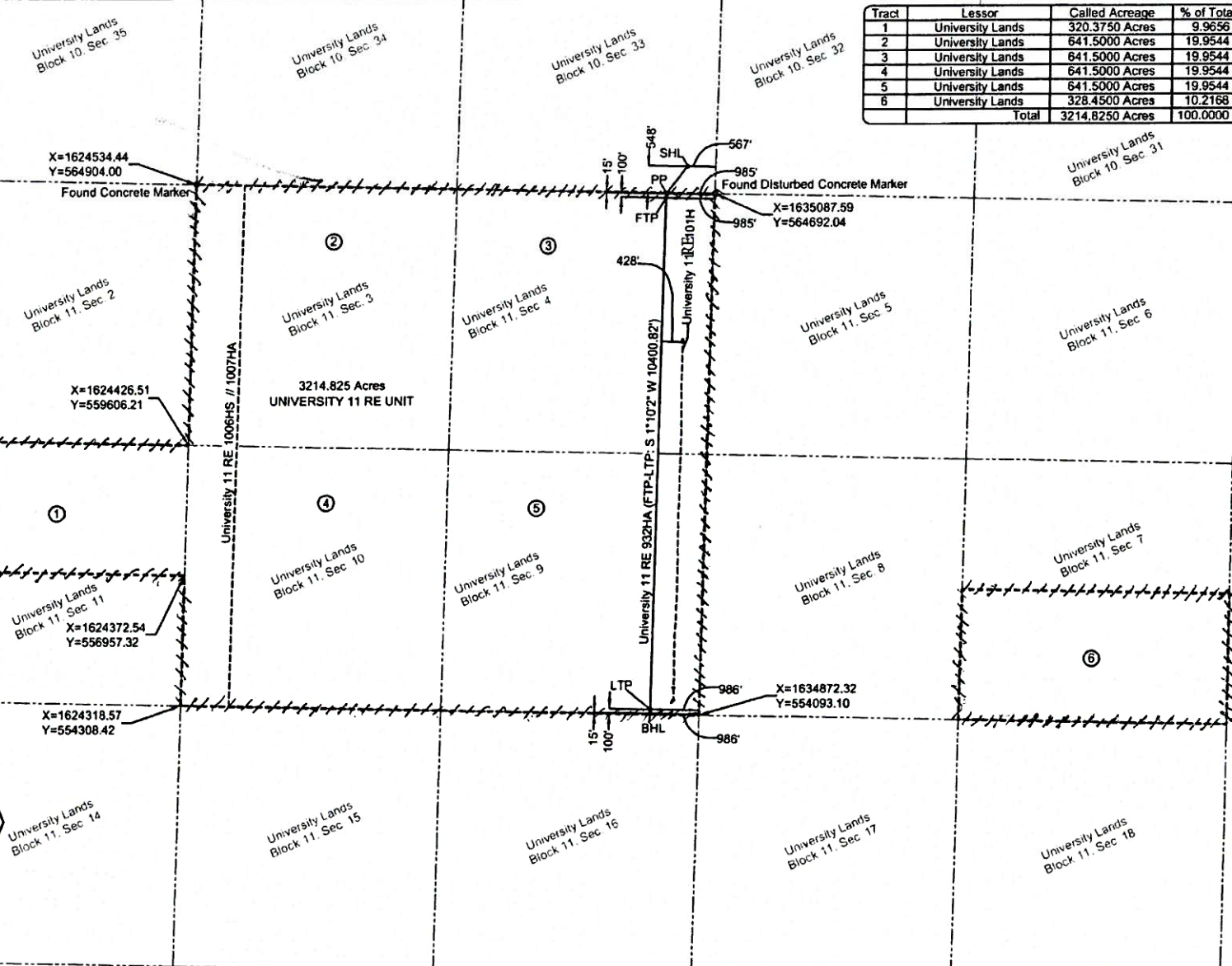
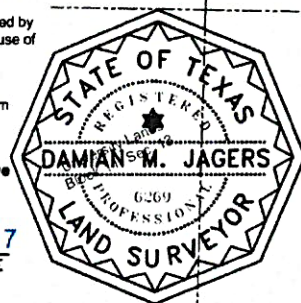
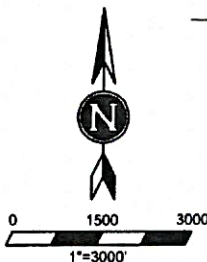
I, Damian M. Jagers do hereby certify that the above described well location was surveyed on the ground under my supervision, as shown.

Damian M. Jagers 1/18/2017
DATE

Damian M. Jagers
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO. 6269



Well Name
UNIVERSITY 11 RE 932HA
Drilling Field
LIN (WOLFCAMP) FIELD
Nearest Town
2.97 MILES NORTHWEST OF BIG LAKE, TEXAS



Tract	Lessor	Called Acreage	% of Total
1	University Lands	320.3750 Acres	9.9656
2	University Lands	641.5000 Acres	19.9544
3	University Lands	641.5000 Acres	19.9544
4	University Lands	641.5000 Acres	19.9544
5	University Lands	641.5000 Acres	19.9544
6	University Lands	328.4500 Acres	10.2168
Total		3214.8250 Acres	100.0000



1507 Darnwood St. Longview, TX 75601
Phone 254-955-8585
email cross@xtssurveying.com
web www.xtssurveying.net

Draft Date	12-13-16
Drawn By	D. Jagers
Revised By	
Reviewed By	B. Weisinger

Well Plat
For
Permian Resources, LLC

University 11 RE 932HA
University Lands Block 11, Section 4
University Lands Block 11, Section 9
University Lands Block 11, Section 3
University Lands Block 11, Section 15
University Lands Block 11, Section 10
University Lands Block 11, Section 7
Reagan County, Texas