



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 03/09/2018
Tracking No.: 186527

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.: 42-383-39835 **County:** REAGAN
Well No.: 936HS **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: UNIVERSITY LANDS, Abstract:

Latitude: **Longitude:**
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: Initial Potential
Type of completion: New Well
Well Type: Producing **Completion or Recompletion Date:** 06/01/2017

<u>Type of Permit</u>	<u>Date</u>	<u>Permit No.</u>
Permit to Drill, Plug Back, or Deepen Rule 37 Exception	03/23/2017	824347
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 03/26/2017 **Date of first production after rig released:** 06/01/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 03/26/2017 **Date plug back, deepening, recompletion, or drilling operation ended:** 06/01/2017
Number of producing wells on this lease in this field (reservoir) including this well: 6 **Distance to nearest well in lease & reservoir (ft.):** 188.0
Total number of acres in lease: 3214.83 **Elevation (ft.):** 2666 GL
Total depth TVD (ft.): 7344 **Total depth MD (ft.):** 17613
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):** 170.0
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: 549.0 **Feet from the** South **Line and**
527.0 **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

W2: 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.):**

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 12/03/2017 **Production method:** Gas Lift
Number of hours tested: 24 **Choke size:** 64
Was swab used during this test? No **Oil produced prior to test:** 1926.00

PRODUCTION DURING TEST PERIOD:

Oil (BBLs): 207.00 **Gas (MCF):** 127
Gas - Oil Ratio: 613 **Flowing Tubing Pressure:** 148.00
Water (BBLs): 1948

CALCULATED 24-HOUR RATE

Oil (BBLs): 207.0 **Gas (MCF):** 127
Oil Gravity - API - 60.: 37.3 **Casing Pressure:** 1095.70
Water (BBLs): 1948

CASING RECORD

Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage 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	1011			CLASS C	1290	2127.0	0	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	5998			CLASS C	1650	4121.0	0	Circulated to Surface
3	Conventional Production	5 1/2	8 3/4	17613			CLASS H	3100	5170.0	0	Circulated to Surface

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
N/A									

TUBING RECORD

Row	Size (in.)	Depth (ft.)	Packer Depth (ft.)/Type
1	2 7/8	7385	7359 / AX-1

PRODUCING/INJECTION/DISPOSAL INTERVAL

Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 7568	17402.0

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: 9500 **Actual maximum pressure (PSIG) during hydraulic fracturing:** 3217

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.)
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1	Fracture	24BBLS 15%HCL ACID + 4,124BBLS SLICK WATER + 38,160# 100 MESH WHITE SD + 61,589# 40/70 WHITE SD + 268,220# 100 MESH BROWN SD.	7568	17402
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FORMATION RECORD

<u>Formations</u>	<u>Encountered</u>	<u>Depth TVD (ft.)</u>	<u>Depth MD (ft.)</u>	<u>Is formation isolated?</u>	<u>Remarks</u>
GRAYBURG	Yes	2600.0	2616.0	Yes	
QUEEN	Yes	1910.0	1919.0	Yes	
SAN ANDRES - SALTWATER FLOW, POSSIBLY HEAVY CLEARFORK	Yes	2867.0	2887.0	Yes	
SPRABERRY	Yes	5662.0	6262.0	Yes	
STRAWN	No			No	DID NOT ENCOUNTER. PINCHED OUT.
FUSSELMAN	No			No	DID NOT ENCOUNTER. BELOW TVD.
ELLENBURGER	No			No	DID NOT ENCOUNTER. 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

RRC REMARKS

PUBLIC COMMENTS:
[RRC Staff 2018-03-07 13:17:28.14] EDL=9834 feet, max acres=380, LIN (WOLFCAMP) oil well

CASING RECORD :

TUBING RECORD:

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: 01/30/2018



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.: 936H 5		API No.: 42-383-39835		Drilling Permit No.: 824347	
Lease Name: University 11 RE			Lease No.:		
Field Name: LINC(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 28%					
Drilled hole size (in.): 17 1/2		Depth of drilled hole (ft.): 1013		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.): 13 3/8		Casing weight (lbs/ft) and grade: 54.50-55		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.): 1011'		Top of liner (ft.):
					Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 1/2		Calculated top of cement (ft.): 0		Cementing date: 03/26/2017	
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.)		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? <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.)		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? <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					



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Form W-15

Rev. 08/2014

CEMENTING REPORT

Cement: 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.: 936HS		API No.: 42-383-39835		Drilling Permit No.: 824347	
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 checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
Drilled hole size (in.): 12 1/4		Depth of drilled hole (ft.): 5,998		Est. % wash-out or hole enlargement: 25%	
Size of casing in O.D. (in.): 9 5/8		Casing weight (lbs/ft) and grade: 40 HCRS5		No. of centralizers used: 52	
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.): 5,998	
				Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out: 24		Calculated top of cement (ft.): 0		Cementing date: 04/09/17	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1450	Class C	See Remarks	3,799	12,130
2	200	Class C	See Remarks	322	1,028
Total	1,650			4,121	13,158
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:		Upper:		Lower:	
Lower:		Lower:		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:		Upper:		Upper:	
Lower:		Lower:		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.)		Tapered string depth of drilled hole (ft.)			
Upper:		Upper:		Lower:	
Lower:		Lower:		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:		Upper:		Upper:	
Lower:		Lower:		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

5 bwow Sodium Chloride, 7 % Bentonite Gel, 0.05 % Geovis XT, 0.2 % CPT-45, 0.25 % CPT-503P, 0.71 lbs/sk Dura Fiber, 4 lbs/sk Kol Seal, 0.3 % CPT-20A, 3 bwow Sodium Chloride, 1 % Bentonite Gel, 0.5 % CPT-19, 0.4 % CD-3, 4 lbs/sk Kol Seal, 0.35 % 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.

Carroll McCarter/Cementer
 Crest Pumping Technologies
 Name and title of cementer's representative
 Cementing Company
 Signature
 P.O. Box 117 Jacksboro, TX 76458
 940-567-3392
 04/09/2017
 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
 5/8/2017
 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 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.



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P.O. Box 12967
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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.: 936 HS			API No.: 42-383-39835 Drilling Permit No.: 824347		
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.): 17613		Est. % wash-out or hole enlargement: 30%	
Size of casing in O.D. (in.): 5 1/2		Casing weight (lbs/ft) and grade: P-110 17H		No. of centralizers used: 144	
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.): 17613'		Top of liner (ft.):
					Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 1/2		Calculated top of cement (ft.): 0		Cementing date: 05/26/2017	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	720	Class H	See Remarks	2,124	8,409
2	2380	Class H	See Remarks	3,046	12,059
Total	3,100			5,170	20,468
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:		Upper: Lower:			
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper: Lower:		Upper: Lower:		Upper: Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth 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:		Upper: Lower:			
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper: Lower:		Upper: Lower:		Upper: Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth 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					

Tracking No.: 186527

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: 06/01/2017
Field Name LIN (WOLFCAMP)	Drilling Permit No. 824347	
Lease Name UNIVERSITY 11 RE	Lease/ID No. 18457	Well No. 936HS
County REAGAN	API No. 42- 383-39835	

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
 01/30/2018
 Date

-FOR RAILROAD COMMISSION USE ONLY-

COLUMBINE LOGGING

Scale: 1" / 100'
Measured Depth Log

Well Name University 11 RE 936HS

Location Blk. 11, Sec. 04 + 09

State Texas

County Reagan

Country USA

Rig Number Unit 407

API Number 42383398350000

AFE # 1550416

Geographic Region Permian

Field LIN (Wolfcamp)

Spud Date 3/26/2017

Surface Coordinates LAT: 31.321562
LON: -101.502359

Bottom Hole Coordinates LAT: 31.185
LON: -101.502079

Ground Elevation 2666'

K.B. Elevation 2687'

Logged Interval 6500'

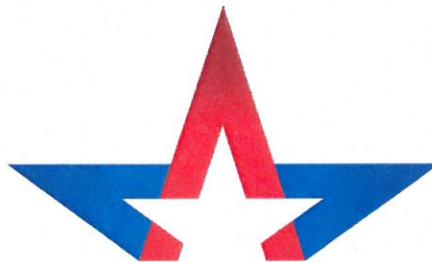
Formation Wolfcamp A

Type of Drilling Fluid OBM

Operator

Company PERMIAN RESOURCES LLC.

Address 5701 N. SHARTEL AVE,
OKLAHOMA CITY, OK 73118



PERMIAN
RESOURCES

**CERTIFICATE OF COMPLIANCE
 AND TRANSPORTATION AUTHORITY**

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.: 186527

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) 936HS			11. Effective Date 06/01/2017		
		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)					
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 <input type="checkbox"/> other well (specify) _____ Due to: <input checked="" type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> 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	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>03/09/2018</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				Signature			
Name (print)				<input type="checkbox"/> Authorized Employee of previous operator		<input type="checkbox"/> Authorized agent of previous operator (see instruction G)	
Title				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				Rena Carter			
Name (print)				Signature			
Regulatory Specialist				<input type="checkbox"/> Authorized Employee of current operator		<input checked="" type="checkbox"/> Authorized agent of current operator (see instruction G)	
Title				Date		Phone with area code	
rcarter@sableres.com				01/30/2018		(713) 806-1486	
E-mail Address (optional)				Date		Phone with area code	

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	API Number:	38339829
Operator No.:	655836	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: 31.215620° N
Longitude: 101.502359° W
X=1634571.51
Y=565251.81
Elev.=2666'
549' FSL & 527' FEL

Point of Penetration (Sec. 4)
Latitude: 31.212941° N
Longitude: 101.501753° W
X=1634750.81
Y=564275.62
423' FNL & 328' FEL

First Take Point (Sec. 4)
Latitude: 31.212661° N
Longitude: 101.501761° W
X=1634747.34
Y=564173.73
525' FNL & 330' FEL

Last Take Point (Sec. 9)
Latitude: 31.185679° N
Longitude: 101.502019° W
X=1634563.52
Y=554361.60
262' FSL & 314' FEL

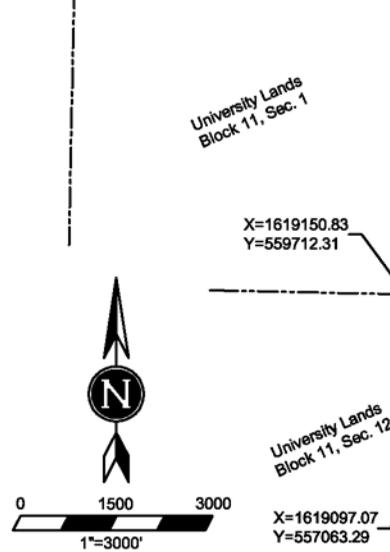
Bottom Hole Location (Sec. 9)
Latitude: 31.185099° N
Longitude: 101.502015° W
X=1634562.55
Y=554150.75
51' FSL & 311' FEL

Unit Boundary Distance

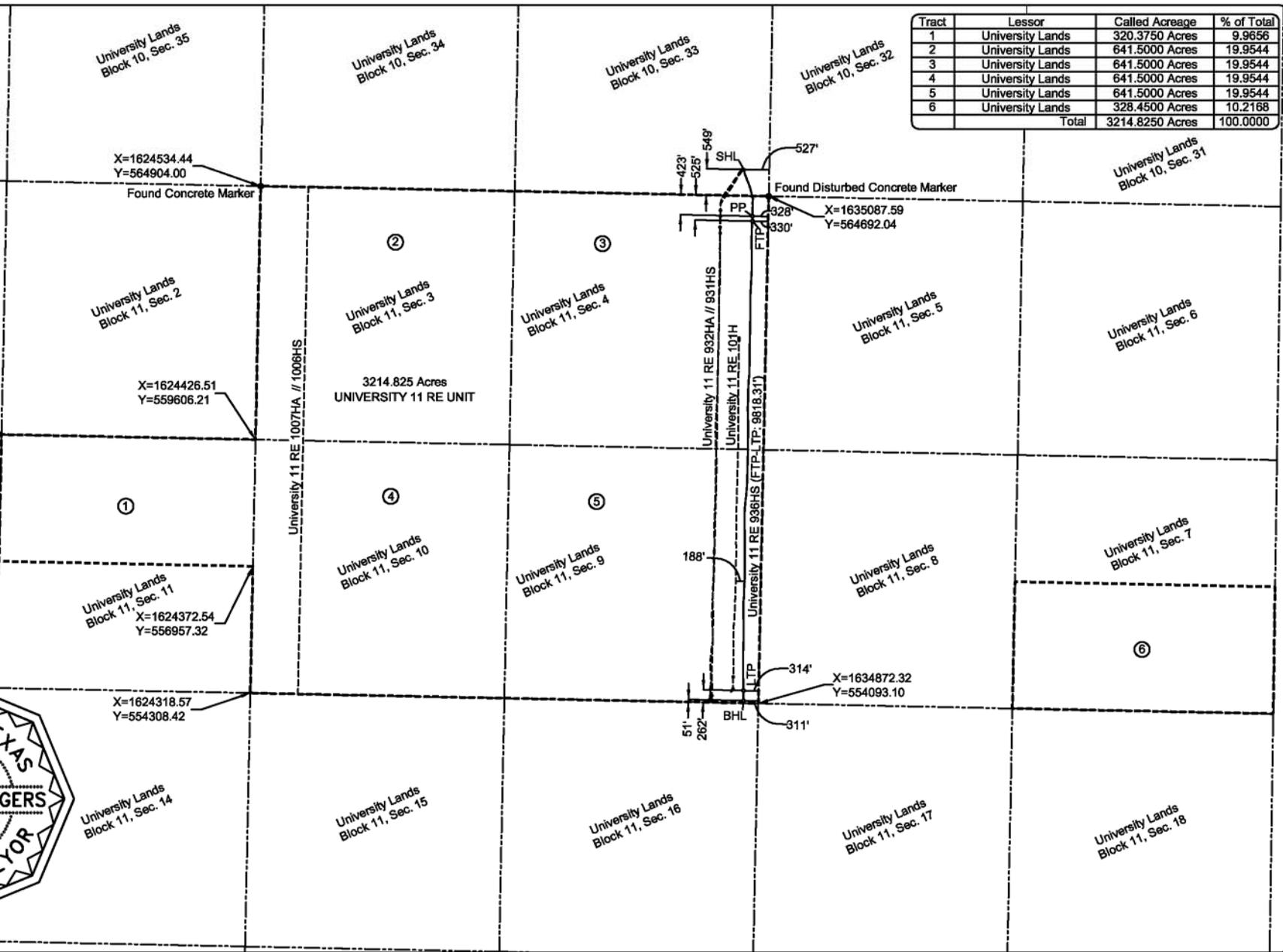
SHL	Out Of Unit
PP	423' FNL & 328' FEL
FTP	525' FNL & 330' FEL
LTP	262' FSL & 314' FEL
BHL	51' FSL & 311' FEL



Well Name
UNIVERSITY 11 RE 936HS
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	10.2188
Total		3214.8250 Acres	100.0000

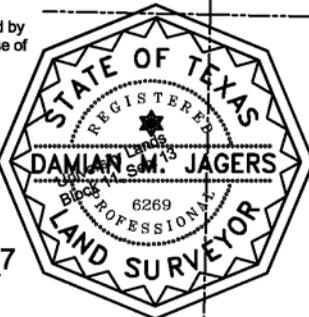


NOTE: This Plat does not, in anyway represent a "Boundary Survey", and does not comply with the current T.B.P.L.S. Minimum Standards of Procedures for Boundary Survey. Acreage shown herein were furnished by others. The information contained on this plat is intended for the sole use of SABLE PERMIAN RESOURCES LAND,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 12/14/2017
DATE
Damian M. Jagers
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO. 6269




1503 Darrough St. Longview, TX 75801
Phone: 254-965-8888
email: cross@xtssurvey.com
web: www.xtssurvey.net

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

As Drilled Plat
for
Sable Permian Resources Land,LLC

University 11 RE 936HS
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 11
University Lands Block 11, Section 7
Reagan County, Texas