



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 10/21/2019
Tracking No.: 214913

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

OPERATOR INFORMATION

Operator Name: SABLE PERMIAN RESOURCES, LLC Operator No.: 742251
Operator Address: 700 MILAM STREET SUITE 3100 HOUSTON, TX 77002-0000

WELL INFORMATION

API No.: 42-383-40465 County: REAGAN
Well No.: 2508HK RRC District No.: 7C
Lease Name: UNIVERSITY 10 Field Name: LIN (WOLFCAMP)
RRC Lease No.: 17844 Field No.: 53613750
Location: Section: 25, Block: 10, Survey: UL, Abstract: U231
Latitude: Longitude:
This well is located 6.7 miles in a NE 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: 04/14/2019
Type of Permit Date Permit No.
Permit to Drill, Plug Back, or Deepen 11/27/2018 847086
Rule 37 Exception
Fluid Injection Permit
O&G Waste Disposal Permit
Other:

COMPLETION INFORMATION

Spud date: 12/14/2018 Date of first production after rig released: 04/14/2019
Date plug back, deepening, recompletion, or drilling operation commenced: 12/14/2018 Date plug back, deepening, recompletion, or drilling operation ended: 04/14/2019
Number of producing wells on this lease in this field (reservoir) including this well: 25 Distance to nearest well in lease & reservoir (ft.): 330.0
Total number of acres in lease: 8391.10 Elevation (ft.): 2805 GL
Total depth TVD (ft.): 8640 Total depth MD (ft.): 17991
Plug back depth TVD (ft.): 8536 Plug back depth MD (ft.): 17955
Was directional survey made other than inclination (Form W-12)? Yes Rotation time within surface casing (hours): 170.7
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: 10883.0 Feet from the South Line and
1383.0 Feet from the West Line of the
UNIVERSITY 10 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.):** 1050.0 **Date:** 11/29/2018
SWR 13 Exception **Depth (ft.):**

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

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):

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	1124			CLASS C	1045	1785.0	0	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	7806	2856		NEO CEM	785	2487.0	0	Calculation
3	Intermediate	9 5/8	12 1/4	7806			NEOCEM	1235	3165.0	2856	Calculation
4	Conventional Production	5 1/2	8 3/4	17991			PREM POXMX	3230	5660.0	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 Size (ft.)	Packer Depth (ft.)/Type
-----	------------	------------------	-------------------------

N/A

PRODUCING/INJECTION/DISPOSAL INTERVAL

Row	Open hole?	From (ft.)	To (ft.)
-----	------------	------------	----------

N/A

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

Was hydraulic fracturing treatment performed? No

Is well equipped with a downhole actuation sleeve? No

If yes, actuation pressure (PSIG):

Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:

Actual maximum pressure (PSIG) during hydraulic fracturing:

Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)? No

<u>Row</u>	<u>Type of Operation</u>	<u>Amount and Kind of Material Used</u>	<u>Depth Interval (ft.)</u>
------------	--------------------------	---	-----------------------------

N/A

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	3036.0	3149.0	Yes	LOGGED MWD GR
QUEEN	Yes	2816.0	2929.0	Yes	ESTIMATED DEPTHS
SAN ANDRES - SALTWATER FLOW, POSSIBLY HEAVY CLEARFORK	Yes	3236.0	3349.0	Yes	ESTIMATED DEPTHS
SPRABERRY	Yes	4288.0	4300.0	Yes	ESTIMATED DEPTHS
STRAWN	No			No	LOGGED MWD GR
FUSSELMAN	No			No	DID NOT ENCOUNTER -- TOO DEEP
ELLENBURGER	No			No	DID NOT ENCOUNTER -- TOO DEEP
JO-MILL	Yes	7025.0	7037.0	Yes	DID NOT ENCOUNTER -- TOO DEEP
DEAN	Yes	7535.0	7547.0	Yes	LOGGED MWD GR
TOP WOLFCAMP	Yes	7705.0	7716.0	Yes	LOGGED MWD GR

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

FILING TO REFLECT OPERATOR NAME CHANGE. INTERNAL (SABLE) NAME IS UNIVERSITY 10 36-01 08HK, PERMITTED NAME IS UNIVERSITY 10 2508HK. THEY ARE THE SAME WELL.

RRC REMARKS

PUBLIC COMMENTS:

CASING RECORD :

TUBING RECORD:

WELL NOT COMPLETE

PRODUCING/INJECTION/DISPOSAL INTERVAL :

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

POTENTIAL TEST DATA:

OPERATOR'S CERTIFICATION

Printed Name: Dawn Manning

Title: Permitting & Regulatory Specialist

Telephone No.: (713) 579-8028

Date Certified: 10/14/2019



RAILROAD COMMISSION OF TEXAS

1701 N. Congress
P.O. Box 12967
Austin, Texas 78703-2967

Form W-15

Rev. 02/2014

CEMENTING REPORT

Cementer: Fill In
Operator: Fill in other

I. OPERATOR INFORMATION					
Operator Name: Sable Permian Resources LLC			Operator P-S No.: 742251		
Cementer Name: Crest Pumping Technologies			Cementer P-S No.: 189898		
II. WELL INFORMATION					
District No.: 70		County: Reagan			
Well No.: 2508HK		API No.: 383-40488		Drilling Permit No.: 047086	
Lease Name: UNIVERSITY 10			Lease No.:		
Field Name: LIN (WOLFCAMP)			Field No.: 53613750		
III. 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.): 1124		Est. % wash-out or hole enlargement: 20	
Size of casing in O.D. (in.): 13 3/8		Casing weight (lbs/ft) and grade: 54.50# J-55		No. of centralizers used: 7	
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.): 1124		Top of liner (ft.): NA
Hrs. waiting on cement before drill-out: NA			Calculated top of cement (ft.): 0		Cementing date: 12/16/2018
IV. SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	675	Class C	See Remarks	1,289	1,856
2	370	Class C	See Remarks	496	714
Total	1,045			1,785	2,570
V. 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:	
VI. SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
Total					
VII. 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/OV 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 tool (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
VIII. 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)							

NOT MARKS

0.3 gal/bbl Plexgel 907,
 3 brow Sodium Chloride, 6 % Bentonite Gel, 0.5 lbs/sk Cellophane Flake,
 0.5 lbs/sk Cellophane Flake,
 Pumped 160 bbls- 750 sks top out. 12 bbls cement 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.

Shaun Sultenfuss/Cementer Shaun Sultenfuss/Cementer Crest Pumping Technologies *Shaun Sultenfuss*
 Name and title of cementer's representative Cementing Company Signature

P.O. Box 117 Jacksboro, TX 76458 940-567-3392 12/16/2018
 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.

BYRON OLSON Senior Drilling Engineer *Byron Olson*
 Typed or printed name of operator's representative Title Signature

700 MILAM, SUITE 3100 HOUSTON, TX 77002 713-570-8119 2/12/2019
 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.mrc.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=&t=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=&t=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 caller 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

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

CEMENTING REPORT

OPERATOR INFORMATION	
Operator Name: SABLE PERMIAN RESOURCES, LLC	Operator P-5 No.: 742251
Cementer Name: HALLBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

WELL INFORMATION		
District No.: 7 C	County: REAGAN	
Well No.: 2500HK	API No.: 42-383-40465	Drilling Permit No.: 847086
Lease Name: UNIVERSITY 10	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 type="checkbox"/> Production					
Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:			
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:			
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.		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:			
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0

II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input checked="" type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.): 12 1/4"	Depth of drilled hole (ft.): 7840'	Est. % wash-out or hole enlargement: 20			
Size of casing in O.D. (in.): 9 5/8"	Casing weight (lbs/ft) and grade: 40.0#/J-55	No. of centralizers used: 66			
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 checked="" type="checkbox"/> NO		Setting depth shoe (ft.): 7806'			
Hrs. waiting on cement before drill-out: 6.0	Calculated top of cement (ft.): 0'	Cementing date: 12/27/18			
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1095	NEOCEM	SEE REMARKS	2870	9163
2	200	NEOCEM	NONE	295	941
3					
Total	1295			3165	10104

III. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input checked="" type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.): 12 1/4"	Depth of drilled hole (ft.): 7840'	Est. % wash-out or hole enlargement: 20			
Size of casing in O.D. (in.): 9 5/8"	Casing weight (lbs/ft) and grade: 40.0#/J-55	No. of centralizers used: 66			
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 checked="" type="checkbox"/> NO		Setting depth tool (ft.): 2856'			
Hrs. waiting on cement before drill-out: N/A	Calculated top of cement (ft.): 2856'	Cementing date: 12/27/18			
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	710	NEOCEM	NONE	2387	7621
2	75	HALCEM-C	SEE REMARKS	100	319
3					
Total	785			2487	7940

CEMENTING TO SQUEEZE PLUGS BACK ON PLUG AND ABANDON

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

REMARKS

1ST STG LEAD SLURRY HAS 3 LBM KOL-SEAL, .1250 LBM POLY-E-FLAKE---2ND STG TAIL HAS .1250 LBM POLY-E-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.

MARIO RODRIGUEZ SERVICE SUPERVISOR III

Halliburton

Name and title of cementer's representative

Cementing Company

Signature

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

12/27/18

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.

Jonathan Rebenack

Senior Drilling Engineer

Jonathan Rebenack

Jonathan Rebenack (Oct 10, 2019)

Typed or printed name of operator's representative

Title

Signature

700 MILAM STREET, SUITE 3100

HOUSTON, TX

77002-0000

713-579-8111

Oct 10, 2019

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.
- 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

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

CEMENTING REPORT

OPERATOR INFORMATION

Operator Name: SABLE PERMIAN RESOURCES, LLC	Operator P-5 No.: 742251
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

WELL INFORMATION

District No.: 7C	County: REAGAN	
Well No.: 2500HK	API No.: 383-40465	Drilling Permit No.: 847086
Lease Name: UNIVERSITY 10	Lease No.: 17844	
Field Name: LIN (WOLFCAMP)	Field No.: 53613750	

I. CASING CEMENTING DATA

Type of casing: Conductor Surface Intermediate Liner Production

Drilled hole size (in.): 8 3/4	Depth of drilled hole (ft.): 17,991	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 5 1/2	Casing weight (lbs/ft) and grade: RYP-110/17#	No. of centralizers used: 401
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.): 17,007 17991	Top of liner (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.): 0	Cementing date: 4/14/2019

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1215	PREMIUM/POZMIX	REMARKS	2758	10386
2	2015	PREMIUM PLUS/POZMIX	REMARKS	2902	12128
3					
Total	3230			5660	22714

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.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight (lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0

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? <input type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth tool (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON

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

REMARKS

1ST: 6% BENTONITE, 3 BLM KOL SEAL, .25 LBM POLY E FLAKE, .025% SA-1015, .40% HR-601. 2ND: 1% CA-661, .40% HALAD-344, .025% SA-1015, .45% HR-601, .25 LBM D-AIR 5000. CIRCULATED 107 BBL (265 SACKS) OF CEMENT, TO SURFACE. SO 905574040

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.

FELICIANO VALVERDE SS II

Halliburton

FELICIANO VALVERDE

Name and title of cementer's representative
1301 W. Webb St.

Cementing Company
Brownfield, Tx, 79316

Signature
575-392-0700

Date: 4/14/2019

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.

JONATHAN REBENACK

SENIOR DRILLING ENG.

Jonathan Rebenack

Typed or printed name of operator's representative

Title

Signature

700 MILAM, HOUSTON, TX 77002

713-579-8111

10/02/2019

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_loc=&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_loc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- E. **Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- F. **Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- G. **Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

Tracking No.: 214913

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, LLC	District No. 7C	Completion Date: 04/14/2019
Field Name LIN (WOLFCAMP)	Drilling Permit No. 847086	
Lease Name UNIVERSITY 10	Lease/ID No. 17844	Well No. 2508HK
County REAGAN	API No. 42- 383-40465	

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). _____

Donnie Stowe
 Signature
SABLE PERMIAN RESOURCES, LLC
 Name (print)

Regulatory Contractor
 Title
(713) 579-8144 10/10/2019
 Phone Date

-FOR RAILROAD COMMISSION USE ONLY-



Pro Directional
 3001 S CR 180
 Midland, TX 79706
 Phone: 432-897-4931

University 10 36-01 #08HK

Scale 1":100' - MD

4/13/2019 12:23 PM

Oper. Company: Sable Permian Resources
Well: University 10 36-01 #08HK
Field: Wolfcamp
Rig: Unit 407
Well ID: 42-383-40465
Job Number: LTX5203019
State: Texas
County: Reagan

Country: USA
Location: 6 Miles West of Big Lake
Start Date: 4-2-2019
EndDate: 4-12-2019
PBHL: 17,991'
Last Svy MD: 17,953'
Last Calc. Date: 4-12-2019

Latitude: 31.229956 **Elev DF:** 21'
Longitude: -101.563614 **Elev KB:** 2,805' + 21' = 2,826'
Elev GL: 2,805'
Notes: NAD 1927 US State Plane Texas North Central 4203. Gamma Ray Depths Are in Reference To Elevation KB.

Map System: US State Plane **Declination:** 5.72
Map Datum: NAD 27 **Grid Convergence:** 0.63
Ref Datum: Mean Sea Level **Total Correction:** 6.35
Map Ellipsoid: Clarke 1866 **Time Zone:** Central Standard Time
Map Zone: Texas North Texas Zone

Field Strength (nT): 47496.6 **Dip:** 59.52

Day Hand: Jason Gunterman **Night Hand:** Evan Fuller

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	2582	2582	2582	3005	
Bit Size	8 3/4	8 1/2	8 1/2	8 1/2	
Cal Factor	4.653	4.653	4.653	4.653	
Survey Offset	50.00	38.00	38.00	38.00	
Gamma Offset	38.00	26.00	26.00	26.00	
Resistivity Offset	0.00	0.00	0.00	0.00	
Start Depth	7813.00	10273.00	15402.00	16770.00	
StartDate	4/2/2019	4/4/2019	4/9/2019	4/11/2019	
StartTime	14:59	23:26	07:48	07:00	
EndDepth	10260.00	15402.00	16770.00	17965.00	
EndDate	4/4/2019	4/6/2019	4/9/2019	4/12/2019	
EndTime	03:16	17:37	22:54	07:05	
Mud Type	OBM	OBM	OBM	OBM	
Mud Weight	11.2@107°F ppg	11.00@97°F ppg	11.50@135°F ppg	11.50@100°F ppg	
Funnel Viscosity	63 @107°F sec/qt	66 @97°F sec/qt	52 @135°F sec/qt	60 @100°F sec/qt	
Plastic Viscosity	20 @150°F cp	20 @150°F cp	22 @150°F cp	21 @150°F cp	
Yield Point	21 lbs/100ft2	25 lbs/100ft2	19 lbs/100ft2	19 lbs/100ft2	
Gel Strength	9/15/17 lbs/100ft2	10/16/18 lbs/100ft2	7/14/16 lbs/100ft2	7/15/17 lbs/100ft2	
Solids Content	11.6% by vol	6.9% by vol	11.3% by vol	18.5% by vol	
Sand Content	0.01 % by vol	0.01 % by vol	0.01 % by vol	0.01 % by vol	
Chlorides	57,000 mg/L	56,000 mg/L	55,000 mg/L	53,000 mg/L	
Temperature	156°F	199°F	199°F	217°F	

Hole Data			Casing Data		
Size	From	To	Size	From	To
17 1/2	0.00	1124.00	13 3/8	0.00	1124.00
12 1/4	1124.00	7806.00	9 5/8	0.00	7806.00
8 3/4	7806.00	10298.00	5 1/2	0.00	17991.00
8 1/2	10298.00	17991.00			

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

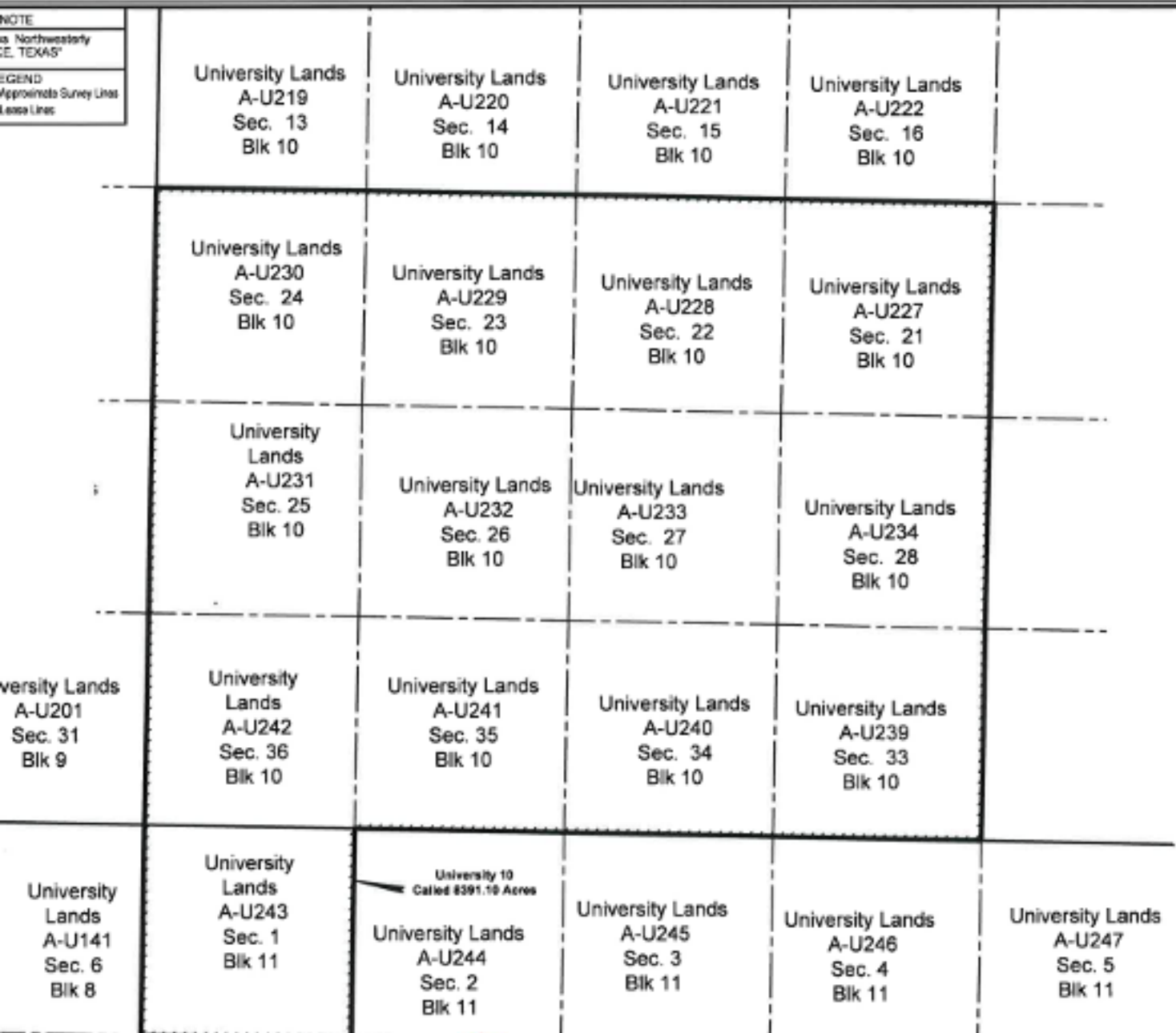
CERTIFICATE OF COMPLIANCE
 AND TRANSPORTATION AUTHORITY

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.: 214913

1. Field name exactly as shown on proration schedule LIN (WOLFCAMP)		2. Lease name as shown on proration schedule UNIVERSITY 10					
3. Current operator name exactly as shown on P-5 Organization Report SABLE PERMIAN RESOURCES, LLC		4. Operator P-5 no. 742251	5. Oil Lse/Gas ID no. 17844	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) 2508HK			11. Effective Date 04/14/2019		
		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 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
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
MEDALLION OPERATING COMPANY, LLC(558336)							100.0
RRC USE ONLY: Reviewer's initials: <u>RRC Staff</u> Approval date: <u>10/21/2019</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.							
Name (print) <u>SABLE PERMIAN RESOURCES, LLC</u>				Signature <u>Donnie Stowe</u>			
Title <u>Regulatory Contractor</u>				<input type="checkbox"/> Authorized Employee of current operator		<input checked="" type="checkbox"/> Authorized agent of current operator (see instruction G)	
E-mail Address (optional) <u>dstowe@sableres.com</u>				Date <u>10/10/2019</u>		Phone with area code <u>(713) 579-8144</u>	

NOTE
 as Northwestly
 CE, TEXAS"
 LEGEND
 Approximate Survey Lines
 Less Lines



University 10
 Called 8391.10 Acres

FOR THE EXCLUSIVE USE OF
 SABLE PERMIAN RESOURCES, LLC
 I, Rex R. Jones, Registered Professional
 Land Surveyor, do hereby state this plat is true
 and correct to the best of my knowledge.
 6024
 Rex R. Jones
 Registration No. 6024
 14, 2019



FERMAKER
 C. H. Fenstermaker & Associates, L.L.C.
 135 Regency Sq. Lafayette, LA 70508
 Ph. 337-237-2260 Fax 337-232-9299
 www.fenstermaker.com
 Texas Firm No. 10028900

LEASE PLAT			
SABLE PERMIAN RESOURCES			
UNIVERSITY 10			
UNIVERSITY LANDS SURVEY, ABSTRACT NO. U227-U234 & U239-U246			
REAGAN COUNTY, TEXAS			
REVISIONS			
DRAWN BY: DMB	#	BY:	DATE: DESCRIPTION
PROJ. MGR: DOM			
DATE: 10/10/2019			
FILENAME: T:\2018\180245\DWG\University 10 Entire Lease.dwg			

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued:	29 November 2018	GAU Number:	223101
Attention:	SABLE PERMIAN RESOURCES 700 MILAM STREET SUITE HOUSTON, TX 77002	API Number:	38340455
Operator No.:	742252	County:	REAGAN
		Lease Name:	UNIVERSITY 10
		Lease Number:	
		Well Number:	2507HA
		Total Vertical Depth:	9000
		Latitude:	31.229960
		Longitude:	-101.563743
		Datum:	NAD27

Purpose: New Production Well
Location: Survey-UL; Abstract-U231; Block-10; Section-25

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 of 1050 feet, must be protected.

This recommendation is applicable to all wells within a radius of 1500 feet of this location.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. Unless stated otherwise, this recommendation is for normal drilling, production, and plugging operations only.

This determination is based on information provided when the application was submitted on 11/27/2018. 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

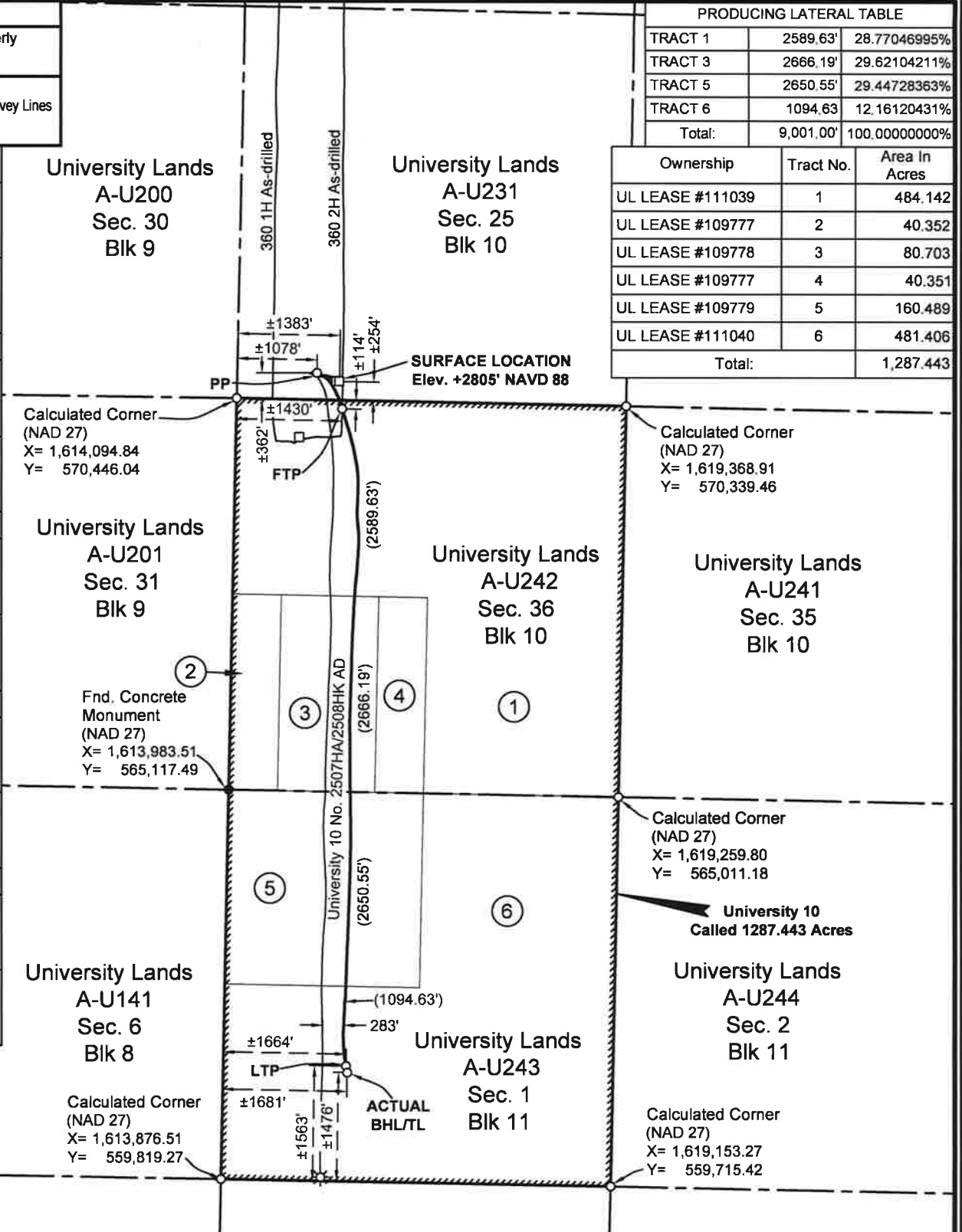
Form GW-2 P.O. Box 12967 Austin, Texas 78771-2967 512-463-2741 Internet address: www.rrc.texas.gov
 Rev. 02/2014

NOTE
 Approx. 6.7 Miles Northwesterly
 From "BIG LAKE, TEXAS"

LEGEND
 - - - - - Approximate Survey Lines
 ===== Lease Lines

PRODUCING LATERAL TABLE		
TRACT 1	2589.63'	28.77046995%
TRACT 3	2666.19'	29.62104211%
TRACT 5	2650.55'	29.44728363%
TRACT 6	1094.63	12.16120431%
Total:	9,001.00'	100.00000000%

UNIVERSITY 10 NO. 2508HK WELL	
X= 1,615,482' Y= 570,672' LAT. 31.229957° N LONG. 101.563613° W	NAD 27
X= 1,911,950' Y= 10,413,249' LAT. 31.230109° N LONG. 101.564010° W	NAD83/86
PP @ 7,716' MD	
X= 1,615,180' Y= 570,786' LAT. 31.230261° N LONG. 101.564585° W	NAD 27
X= 1,911,648' Y= 10,413,363' LAT. 31.230413° N LONG. 101.564981° W	NAD83/86
FTP @ 8,900' MD	
X= 1,615,523' Y= 570,303' LAT. 31.228944° N LONG. 101.563472° W	NAD 27
X= 1,911,991' Y= 10,412,880' LAT. 31.229096° N LONG. 101.563869° W	NAD83/86
LTP @ 17,901' MD	
X= 1,615,571' Y= 561,349' LAT. 31.204327° N LONG. 101.562999° W	NAD 27
X= 1,912,039' Y= 10,403,926' LAT. 31.204480° N LONG. 101.563395° W	NAD83/86
ACTUAL BHL/TL @ 17,991' MD	
X= 1,615,587' Y= 561,262' LAT. 31.204087° N LONG. 101.562946° W	NAD 27
X= 1,912,055' Y= 10,403,839' LAT. 31.204240° N LONG. 101.563342° W	NAD83/86



Ownership	Tract No.	Area In Acres
UL LEASE #111039	1	484.142
UL LEASE #109777	2	40.352
UL LEASE #109778	3	80.703
UL LEASE #109777	4	40.351
UL LEASE #109779	5	160.489
UL LEASE #111040	6	481.406
Total:		1,287.443

SURFACE LOCATION: ±254' To South Survey Line
 ±1383' To West Survey Line

PP: ±362' To South Survey Line
 ±1078' To West Survey Line

FTP: ±114' To North Survey Line
 ±1430' To West Survey Line
 114' To North Lease Line
 1430' To West Lease Line

LTP: ±1563' To South Survey Line
 ±1664' To West Survey Line
 1563' To South Lease Line
 1664' To West Lease Line

ACTUAL BHL/TL: ±1476' To South Survey Line
 ±1681' To West Survey Line
 1476' To South Lease Line
 1681' To West Lease Line



NOTES:

- This plat represents a survey made on the ground and meets the requirements for filing an as-drilled plat with the Texas Railroad Commission and is intended solely for that purpose. Lease lines shown hereon were established from field measurements and record data. Mineral title shown hereon was furnished by Sable Permian Resources, LLC and/or their agent(s). This plat does not meet the requirements for boundary surveys in the State of Texas.
- All bearings, distances, areas and coordinates refer to the Texas Coordinate System of 1927, Central Zone.

PP= PENETRATION POINT
 FTP= FIRST TAKE POINT
 LTP= LAST TAKE POINT
 BHL= BOTTOM HOLE LOCATION
 TL= TERMINUS LOCATION

FOR THE EXCLUSIVE USE OF
 SABLE PERMIAN RESOURCES, LLC
 I, Rex R. Jones, Registered Professional
 Land Surveyor, do hereby state this plat is true
 and correct to the best of my knowledge.

Rex R. Jones
 Rex R. Jones
 Registration No. 6024
 2019

AS-DRILLED PLAT				
SABLE PERMIAN RESOURCES, LLC				
UNIVERSITY 10 NO. 2508HK WELL				
UNIVERSITY LANDS SURVEY, ABSTRACT NO. U231, SEC. 25, BLK 10				
REAGAN COUNTY, TEXAS				
REVISIONS				
DRAWN BY: RMB	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.: DBM				
DATE: 06/17/2019				
FILENAME: T:\2018\2189245\DWG\University 10 2508HK As-Drilled 2.dwg				

C. H. Fenstermaker & Associates, L.L.C.
 135 Regency Sq. Lafayette, LA 70508
 Ph. 337-237-2200 Fax. 337-232-3299
 www.fenstermaker.com
 Texas Firm No. 10028500