

**RAILROAD COMMISSION OF TEXAS**

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

Form W-2

Status: Work in Progress
Date:
Tracking No.: 132656

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG**OPERATOR INFORMATION**

Operator Name: SHERIDAN PRODUCTION COMPANY, LLC Operator No.: 775854
Operator Address: 9 GREENWAY PLAZA STE 1300 HOUSTON, TX 77046-0000

WELL INFORMATION

API No.: 42-003-46321 County: ANDREWS
Well No.: 3009 RRC District No.: 08
Lease Name: UNIVERSITY CONS. IV Field Name: FULLERTON
RRC Lease No.: 18399 Field No.: 33230001
Location: Section: 30, Block: 13, Survey: UL, Abstract: U422

Latitude: Longitude:
This well is located 15 miles in a NW
direction from ANDREWS,
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: 01/14/2015
Type of Permit Date Permit No.
Permit to Drill, Plug Back, or Deepen 09/09/2014 786929
Rule 37 Exception
Fluid Injection Permit
O&G Waste Disposal Permit
Other:

COMPLETION INFORMATION

Spud date: 12/10/2014 Date of first production after rig released: 01/14/2015
Date plug back, deepening, recompletion, or drilling operation commenced: 12/10/2014 Date plug back, deepening, recompletion, or drilling operation ended: 01/14/2015
Number of producing wells on this lease in this field (reservoir) including this well: 24 Distance to nearest well in lease & reservoir (ft.): 626.0
Total number of acres in lease: 482.48 Elevation (ft.): 3316 RKB
Total depth TVD (ft.): 8800 Total depth MD (ft.):
Plug back depth TVD (ft.): 8760 Plug back depth MD (ft.):
Was directional survey made other than inclination (Form W-12)? Yes Rotation time within surface casing (hours): 24.0
Is Cementing Affidavit (Form W-15) attached? Yes
Recompletion or reclass? No Multiple completion? No
Type(s) of electric or other log(s) run: Combo of Induction/Neutron/Density
Electric Log Other Description:
Location of well, relative to nearest lease boundaries Off Lease: No
of lease on which this well is located: 330.0 Feet from the North Line and
408.0 Feet from the West Line of the
UNIVERSITY CONSOLIDATED IV 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.): 1575.0

Date: 08/12/2014

SWR 13 Exception

Depth (ft.):

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 01/23/2015

Production method: Pumping

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): 17.00

Gas (MCF): 1

Gas - Oil Ratio: 58

Flowing Tubing Pressure:

Water (BBLs): 2187

CALCULATED 24-HOUR RATE

Oil (BBLs): 17.0

Gas (MCF): 1

Oil Gravity - API - 60.: 32.0

Casing Pressure:

Water (BBLs): 2187

CASING RECORD

Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Depth (ft.)	Multi - Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	9 5/8	12 1/4	1685			CLASS C	1050	1386.0	1611	Calculation
2	Conventional Production	7	7 7/8	8800			CLASS C	2488	3284.0	1800	Cement Evaluation Log

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
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N/A

TUBING RECORD

Row	Size (in.)	Depth (ft.)	Packer Depth (ft.)/Type
1	2 7/8	8513	/

PRODUCING/INJECTION/DISPOSAL INTERVAL

Row	Open hole?	From (ft.)	To (ft.)
1	No	L 8617	8730.0

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

Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)
1	Acid	6000 GALS 15% HYDROCHLORIC ACID W/120 BALLS	8617 8730

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>
YATES	No			No	NOT ENCOUNTERED
SEVEN RIVERS	No			No	NOT ENCOUNTERED
QUEEN	No			No	NOT ENCOUNTERED
GRAYBURG	No			No	NOT ENCOUNTERED
SAN ANDRES - CO2 FLOOD, HIGH FLOWS, H2S, CORROSIVE	Yes	4396.0		Yes	
HOLT	No			No	NOT ENCOUNTERED
GLORIETA	Yes	5216.0		Yes	
TUBB	Yes	6517.0		Yes	
LOWER CLEARFORK	Yes	6588.0		Yes	
CLEARFORK	Yes	5614.0		Yes	
PERMIAN DETRITAL	Yes	8143.0		Yes	
LEON	No			No	NOT ENCOUNTERED
WICHITA ALBANY	Yes	7207.0		Yes	
SPRABERRY	No			No	NOT ENCOUNTERED
DEAN	No			No	NOT ENCOUNTERED
WOLFCAMP	Yes	8088.0		Yes	
CANYON	No			No	NOT ENCOUNTERED
PENNSYLVANIAN	No			No	NOT ENCOUNTERED
MCKEE	No			No	NOT ENCOUNTERED
STRAWN	No			No	NOT ENCOUNTERED
FUSSELMAN	No			No	NOT ENCOUNTERED
DEVONIAN	Yes	8227.0		Yes	
SILURIAN	No			No	NOT ENCOUNTERED
ELLENBURGER	No			No	NOT ENCOUNTERED

Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)?

Yes

Is the completion being downhole commingled (SWR 10)? No

REMARKS

RRC REMARKS**PUBLIC COMMENTS:****CASING RECORD :****TUBING RECORD:****PRODUCING/INJECTION/DISPOSAL INTERVAL :****ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :****POTENTIAL TEST DATA:**

NEW WELL COMPLETION

OPERATOR'S CERTIFICATION**Printed Name:** Mary Sutton**Title:** Regulatory Analyst**Telephone No.:** (432) 253-7966**Date Certified:** 04/13/2015



RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

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

Operator Name:	SHERIDAN PRODUCTION COMPANY	Operator P-S No.:	775964
Cementor Name:	JESUS A. BENAVIDES	Cementor P-S No.:	
District No.:	8	County:	ANDREWS
Well No.:	83009	API No.:	003-46321
Lease Name:	UNIVERSITY CONSOLIDATION IV	Drilling Permit No.:	786929
Field Name:	Fulkerton	Lease No.:	18319
		Field No.:	33230001

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.):	12 1/4	Depth of drilled hole (ft.):	1695	Est. % wash-out or hole enlargement:	4
Size of casing in O.D. (in.):	9 5/8	Casing weight (lbs/ft) and grade:	36	No. of centralizers used:	4
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.):		Top of liner (ft.):	
Hrs. waiting on cement before drill-out:	24	Calculated top of cement (ft.):	1611	Setting depth liner (ft.):	
		Cementing date:	12/14/2014		

SLURRY					
Slurry No	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	425	CLASS C	REMARKS1	782	2497
2	200	CLASS C	REMARKS2	268	856
3					
Total	625			1050	3353

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.):				
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					

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.):				
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					



RAILROAD COMMISSION OF TEXAS

1701 N. Congress
P.O. Box 12967
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Form W-15

Rev. 08/2014

CEMENTING REPORT

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

OPERATOR INFORMATION

Operator Name: Sheridan Production Operator P-5 No.: 775854
Cementer Name: David Caldera Jr. Cementer P-5 No.:

WELL INFORMATION

District No.: 8 County: Andrews
Well No.: #3009 API No: 003-41632-1 Leasing Permit No: 186029
Lease Name: University of Texas IV Lease No.: 183399
Field Name: Fullerton Field No.: 33230001

I. CASING CEMENTING DATA

Type of Casing: ☐ Conductor ☐ Surface ☐ Intermediate ☒ Liner ☒ Production
Drilled hole size (in.): 7 7/8 Depth of drilled hole (ft.): 8900 Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.): 4 1/2 Casing weight (lbs/ft) and grade: 26 No. of centralizers used: 12
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☒ 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: 24 Calculated top of cement (ft.): 1800 Cementing date: 12/25/2014

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	720	50/50 H	Remark 1	2110	14033
2	310	50/50 H	Remark 2	378	2516
3					
Total	1030			2488	16549

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 ☐ 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					

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 ☐ 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					

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							
10% Gel + 6/10% SMS + 1/10% C-20 + 5#/sk Kol Seal + 1/4#/sk Cello Flake + 5% Salt							
2% Gel + 5/10% FL-17 + 2/10% SMS + 2/10 C-49							

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.

David Caldera Jr. Service Supervisor
Name and title of cementer's representative

O-Tex Pumping
Cementing Company

Signature

2609 E I-20

Midland TX 79706

432-686-8559

12/25/2014

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.

Mary Cook
Typed or printed name of operator's representative

Reg. Analyst
Title

Mary Cook
Signature

200 N. Lorraine #530, Midland, TX
Address City, State, Zip Code

432-263-7466
Tel: Area Code Number

1/8/15
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-15 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 787112967).

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_loc=&p_tloc=&p_place=&p_tac=3&i=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_place=&p_tac=3&i=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 III. 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

Oil and Gas Division

ELECTRIC LOG
STATUS REPORT

FORM L-1

Tracking No.: 132656

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: SHERIDAN PRODUCTION COMPANY, LLC	District No. 08	Completion Date: 01/14/2015
Field Name FULLERTON	Drilling Permit No. 786929	
Lease Name UNIVERSITY CONS. IV	Lease/ID No. 18399	Well No. 3009
County ANDREWS	API No. 42- 003-46321	

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). _____

Mary Sutton

Signature

SHERIDAN PRODUCTION COMPANY, LLC

Name (print)

Regulatory Analyst

Title

(432) 253-7966

Phone

04/13/2015

Date

-FOR RAILROAD COMMISSION USE ONLY-

Schlumberger

Company: SHERIDAN PRODUCTION COMPANY, LLC

Well: University Consolidated IV #3009

Field: Fullerton

County: Andrews State: Texas

County: Andrews Field: Fullerton Location: 330' FNL & 914' FEL Well: University Consolidated IV #3009 Company: SHERIDAN PRODUCTION COMPANY, LLC	Platform Express				REVISED	
	Compensated Neutron Log					
	Three Detector Litho-Density					
	Location:	330' FNL & 914' FEL Block: 13 Section: 30 Abstract: U422 Survey: UL			Elev.:	K.B. 3316.00 ft G.L. 3298.00 ft D.F. 3315.00 ft
	Permanent Datum:	Ground Level	Elev.:	3298.00 f		
	Log Measured From:	Kelly Bushing	18.00 ft	above Perm.Datum		
	Drilling Measured From:	Kelly Bushing				
	API Serial No.	Block:	Section:	Abstract:		
	42-003-46321	13	30	U422		
Logging Date		23-Dec-2014				
Run Number		1A				
Depth Driller		8800.00 ft				
Schlumberger Depth		8811.00 ft				
Bottom Log Interval		8811.00 ft				
Top Log Interval		1685.00 ft				
Casing Driller Size @ Depth		9.625 in @ 1685.00 ft				
Casing Schlumberger		1685 ft				
Bit Size		8.75 in				
Type Fluid In Hole		Salt Brine				
MUD	Density	Viscosity	10.2 lbm/gal	54 s		
	Fluid Loss	PH	7.4 cm3	9.5		
	Source of Sample					
RM @ Meas Temp		0.08 ohm.m @ 49 degF				
RMF @ Meas Temp		0.05 ohm.m @ 49 degF				
RMC @ Meas Temp						
Source RMF		RMC				
RM @ BHT		RMF @ BHT		0.03 @ 124	0.02 @ 124	
Max Recorded Temperatures		124 degF				
Circulation Stopped Time		23-Dec-2014		14:00:00		
Logger on Bottom Time		23-Dec-2014		23:00:00		
Unit Number		Location:		2136	Midland	
Recorded By		Darren Vandenberg & Danielle Krebs				
Witnessed By		Jennifer Wilson				

Schlumberger

Company: SHERIDAN PRODUCTION COMPANY, LLC

Well: University Consolidated IV #3009

Field: Fullerton

County: Andrews State: Texas

County: Andrews Field: Fullerton Location: 330' FNL & 914' FEL Well: University Consolidated IV #3009 Company: SHERIDAN PRODUCTION COMPANY, LLC	Platform Express			
	Compensated Neutron Log			
	Three Detector Litho-Density			
	REVISED			
Location:	330' FNL & 914' FEL Block: 13 Section: 30 Abstract: U422 Survey: UL		Elev.: K.B. 3316.00 ft G.L. 3298.00 ft D.F. 3315.00 ft	
Permanent Datum:	Ground Level	Elev.: 3298.00 f		
Log Measured From:	Kelly Bushing	18.00 ft	above Perm.Datum	
Drilling Measured From:	Kelly Bushing			
API Serial No. 42-003-46321	Block: 13	Section: 30	Abstract: U422	
Logging Date		23-Dec-2014		
Run Number		1A		
Depth Driller		8800.00 ft		
Schlumberger Depth		8811.00 ft		
Bottom Log Interval		8811.00 ft		
Top Log Interval		1685.00 ft		
Casing Driller Size @ Depth		9.625 in @ 1685.00 ft		
Casing Schlumberger		1685 ft		
Bit Size		8.75 in		
Type Fluid In Hole		Salt Brine		
MUD	Density	Viscosity	10.2 lbm/gal 54 s	
	Fluid Loss	PH	7.4 cm3 9.5	
	Source of Sample		Active Tank	
RM @ Meas Temp		0.08 ohm.m @ 49 degF		
RMF @ Meas Temp		0.05 ohm.m @ 49 degF		
RMC @ Meas Temp				
Source RMF		RMC		
RM @ BHT		RMF @ BHT 0.03 @ 124 0.02 @ 124		
Max Recorded Temperatures		124 degF		
Circulation Stopped Time		23-Dec-2014 14:00:00		
Logger on Bottom Time		23-Dec-2014 23:00:00		
Unit Number	Location:	2136 Midland		
Recorded By		Darren Vandenberg & Danielle Kröbs		
Witnessed By		Jennifer Wilson		

Schlumberger

PRODUCTION COMPANY, LLC

Consolidated IV #3009

County:

State:

Texas

County: Andrews Field: Fullerton Location: 330' FNL & 914' FEL Well: University Consolidated IV #3009 Company: SHERIDAN PRODUCTION COMPANY, LLC	Platform Express				REVISED	
	High Resolution Laterolog Array					
	Spectral Gamma Ray					
	Location:	330' FNL & 914' FEL Block: 13 Section: 30 Abstract: U422 Survey: UL			Elev.:	K.B. 3316.00 ft G.L. 3298.00 ft D.F. 3315.00 ft
	Permanent Datum:	Ground Level	Elev.:	3298.00 f		
	Log Measured From:	Kelly Bushing	18.00 ft	above Perm.Datum		
	Drilling Measured From:	Kelly Bushing				
	API Serial No. 42-003-46321	Block: 13	Section: 30	Abstract: U422		
Logging Date		23-Dec-2014				
Run Number		1A				
Depth Driller		8800.00 ft				
Schlumberger Depth		8811.00 ft				
Bottom Log Interval		8811.00 ft				
Top Log Interval		1685.00 ft				
Casing Driller Size @ Depth		9.625 in @ 1685.00 ft				
Casing Schlumberger		1685 ft				
Bit Size		8.75 in				
Type Fluid In Hole		Salt Brine				
MUD	Density	Viscosity	10.2 lbm/gal	54 s		
	Fluid Loss	PH	7.4 cm3	9.5		
	Source of Sample					
RM @ Meas Temp		0.08 ohm.m @ 49 degF				
RMF @ Meas Temp		0.05 ohm.m @ 49 degF				
RMC @ Meas Temp						
Source RMF		RMC				
RM @ BHT		RMF @ BHT	0.03 @ 124	0.02 @ 124		
Max Recorded Temperatures		124 degF				
Circulation Stopped Time		23-Dec-2014 14:00:00				
Logger on Bottom Time		23-Dec-2014 23:00:00				
Unit Number	Location:	2136	Midland			
Recorded By		Darren Vandenberg & Danielle Krebs				
Witnessed By		Jennifer Wilson				

Schlumberger

Company: SHERIDAN PRODUCTION COMPANY, LLC

Well: University Consolidated IV #3009

Field: Fullerton

County: Andrews State: Texas

County: Andrews		Field: Fullerton		Location: 330' FNL & 914' FEL		Well: University Consolidated IV #3009		Company: SHERIDAN PRODUCTION COMPANY, LLC	
Borehole Profile Log									
Future Casing Diameter = 7"									
REVISED									
Location:		330' FNL & 914' FEL				Elev.: K.B. 3316.00 ft			
		Block: 13 Section: 30 Abstract: U422				G.L. 3298.00 ft			
		Survey: UL				D.F. 3315.00 ft			
		Permanent Datum: Ground Level				Elev.: 3298.00 f			
		Log Measured From: Kelly Bushing				18.00 ft above Perm.Datum			
		Drilling Measured From: Kelly Bushing							
API Serial No.		Block:		Section:		Abstract:			
42-003-46321		13		30		U422			
Logging Date		23-Dec-2014							
Run Number		1A							
Depth Driller		8800.00 ft							
Schlumberger Depth		8811.00 ft							
Bottom Log Interval		8811.00 ft							
Top Log Interval		1685.00 ft							
Casing Driller Size @ Depth		9.625 in @ 1685.00 ft							
Casing Schlumberger		1685 ft							
Bit Size		8.75 in							
Type Fluid In Hole		Salt Brine							
MUD	Density	Viscosity	10.2 lbm/gal	54 s					
	Fluid Loss	PH	7.4 cm3	9.5					
	Source of Sample		Active Tank						
RM @ Meas Temp		0.08 ohm.m		@	49 degF				
RMF @ Meas Temp		0.05 ohm.m		@	49 degF				
RMC @ Meas Temp									
Source RMF		RMC							
RM @ BHT		RMF @ BHT		0.03 @ 124	0.02 @ 124				
Max Recorded Temperatures		124 degF							
Circulation Stopped Time		23-Dec-2014		14:00:00					
Logger on Bottom Time		23-Dec-2014		23:00:00					
Unit Number		Location:		2136	Midland				
Recorded By		Darren Vandenberg & Danielle Krebs							
Witnessed By		Jennifer Wilson							

Schlumberger

Company: SHERIDAN PRODUCTION COMPANY, LLC

Well: University Consolidated IV #3009

Field: Fullerton

County: Andrews Country: USA

County: Andrews Field: Fullerton Location: 330' FNL & 914' FEL Well: University Consolidated IV #3009 Company: SHERIDAN PRODUCTION COMPANY, LLC	Borehole Compensated Sonic				REVISED
	Spectral Gamma Ray				
	Location:	330' FNL & 914' FEL Block: 13 Section: 30 Abstract: U422 Survey: UL			Elev.: K.B. 3316.00 ft G.L. 3298.00 ft D.F. 3315.00 ft
		Permanent Datum:		Ground Level	Elev.: 3298.00 f
		Log Measured From:		Kelly Bushing	18.00 ft above Perm.Datum
Drilling Measured From:		Kelly Bushing			
API Serial No.	Block:	Section:	Abstract:		
42-003-46321	13	30	U422		
Logging Date		23-Dec-2014			
Run Number		1A			
Depth Driller		8800.00 ft			
Schlumberger Depth		8811.00 ft			
Bottom Log Interval		8811.00 ft			
Top Log Interval		1685.00 ft			
Casing Driller Size @ Depth		9.625 in @ 1685.00 ft			
Casing Schlumberger		1685 ft			
Bit Size		8.75 in			
Type Fluid In Hole		Salt Brine			
MUD	Density	Viscosity	10.2 lbm/gal	54 s	
	Fluid Loss	PH	7.4 cm3	9.5	
	Source of Sample				
RM @ Meas Temp		0.08 ohm.m @ 49 degF			
RMF @ Meas Temp		0.05 ohm.m @ 49 degF			
RMC @ Meas Temp					
Source RMF		RMC			
RM @ BHT		RMF @ BHT	0.03 @ 124	0.02 @ 124	
Max Recorded Temperatures		124 degF			
Circulation Stopped Time		23-Dec-2014 14:00:00			
Logger on Bottom Time		23-Dec-2014 23:00:00			
Unit Number	Location:	2136	Midland		
Recorded By		Darren Vandenberg & Danielle Krebs			
Witnessed By		Jennifer Wilson			

Schlumberger

Company: SHERIDAN PRODUCTION COMPANY, LLC

Well: University Consolidated IV #3009

Field: Fullerton

County: Andrews State: Texas

County: Andrews Field: Fullerton Location: 330' FNL & 914' FEL Well: University Consolidated IV #3009 Company: SHERIDAN PRODUCTION COMPANY, LLC	TCOM			
	Location:		REVISID	
	330' FNL & 914' FEL Block: 13 Section: 30 Abstract: U422 Survey: UL		Elev.: K.B. 3316.00 ft G.L. 3298.00 ft D.F. 3315.00 ft	
	Permanent Datum: Ground Level Log Measured From: Kelly Bushing Drilling Measured From: Kelly Bushing		Elev.: 3298.00 f 18.00 ft above Perm.Datum	
API Serial No. 42-003-46321		Block: 13	Section: 30	Abstract: U422
Logging Date		23-Dec-2014		
Run Number		1A		
Depth Driller		8800.00 ft		
Schlumberger Depth		8811.00 ft		
Bottom Log Interval		8811.00 ft		
Top Log Interval		1685.00 ft		
Casing Driller Size @ Depth		9.625 in @ 1685.00 ft		
Casing Schlumberger		1685 ft		
Bit Size		8.75 in		
Type Fluid In Hole		Salt Brine		
MUD	Density	Viscosity	10.2 lbm/gal	54 s
	Fluid Loss	PH	7.4 cm3	9.5
	Source of Sample Active Tank			
RM @ Meas Temp		0.08 ohm.m @ 49 degF		
RMF @ Meas Temp		0.05 ohm.m @ 49 degF		
RMC @ Meas Temp				
Source RMF		RMC		
RM @ BHT		RMF @ BHT	0.03 @ 124	0.02 @ 124
4 Temperatures		124 degF		
Time		23-Dec-2014 14:00:00		
		23-Dec-2014 23:00:00		
		Midland		
		Wahs		

Schlumberger

Company: SHERIDAN PRODUCTION COMPANY, LLC

Well: University Consolidated IV #3009

Field: Fullerton

County: Andrews State: Texas

County: Andrews Field: Fullerton Location: 330' FNL & 914' FEL Well: University Consolidated IV #3009 Company: SHERIDAN PRODUCTION COMPANY, LLC	Spectral Gamma Ray				REVISED <div style="border: 1px solid black; height: 20px; width: 100px;"></div>
	FIELD PRINT				
	Location:	330' FNL & 914' FEL Block: 13 Section: 30 Abstract: U422 Survey: UL		Elev.: K.B. 3316.00 ft G.L. 3298.00 ft D.F. 3315.00 ft	
		Permanent Datum:	Ground Level	Elev.:	3298.00 f
		Log Measured From:	Kelly Bushing	18.00 ft	above Perm.Datum
	Drilling Measured From:	Kelly Bushing			
	API Serial No.	Block:	Section:	Abstract:	
	42-003-46321	13	30	U422	
Logging Date		23-Dec-2014			
Run Number		1A			
Depth Driller		8800.00 ft			
Schlumberger Depth		8811.00 ft			
Bottom Log Interval		8811.00 ft			
Top Log Interval		1685.00 ft			
Casing Driller Size @ Depth		9.625 in @ 1685.00 ft			
Casing Schlumberger		1685 ft			
Bit Size		8.75 in			
Type Fluid In Hole		Salt Brine			
MUD	Density	Viscosity	10.2 lbm/gal	54 s	
	Fluid Loss	PH	7.4 cm3	9.5	
	Source of Sample		Active Tank		
RM @ Meas Temp		0.08 ohm.m @ 49 degF			
RMF @ Meas Temp		0.05 ohm.m @ 49 degF			
RMC @ Meas Temp					
Source RMF		RMC			
RM @ BHT		RMF @ BHT	0.03 @ 124	0.02 @ 124	
Max Recorded Temperatures		124 degF			
Circulation Stopped		Time	23-Dec-2014 14:00:00		
Logger on Bottom		Time	23-Dec-2014 23:00:00		
Unit Number	Location:	2136	Midland		
Recorded By		Darren Vandenberg & Danielle Krebs			
Witnessed By		Jennifer Wilson			