



## 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.: 131636

## 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.:** 42-003-44686      **County:** ANDREWS  
**Well No.:** 3      **RRC District No.:** 08  
**Lease Name:** UNIVERSITY 15 SW      **Field Name:** FUHRMAN-MASCHO  
**RRC Lease No.:** 43350      **Field No.:** 33176001  
**Location:** Section: 15, Block: 10, Survey: UL, Abstract:

**Latitude:**      **Longitude:**  
This well is located      13      miles in a      SW  
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:** 11/18/2012  
**Type of Permit**      **Date**      **Permit No.**  
**Permit to Drill, Plug Back, or Deepen**      08/30/2012      746889  
**Rule 37 Exception**  
**Fluid Injection Permit**  
**O&G Waste Disposal Permit**  
**Other:**

## COMPLETION INFORMATION

**Spud date:** 09/30/2012      **Date of first production after rig released:** 11/18/2012  
**Date plug back, deepening, recompletion, or drilling operation commenced:** 09/30/2012      **Date plug back, deepening, recompletion, or drilling operation ended:** 10/05/2012  
**Number of producing wells on this lease in this field (reservoir) including this well:** 1      **Distance to nearest well in lease & reservoir (ft.):** 0.0  
**Total number of acres in lease:** 84.00      **Elevation (ft.):** 3212      GL  
**Total depth TVD (ft.):** 4782      **Total depth MD (ft.):**  
**Plug back depth TVD (ft.):** 4738      **Plug back depth MD (ft.):**  
**Was directional survey made other than inclination (Form W-12)?** No      **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:**      589.0 Feet from the      North Line and  
1171.0 Feet from the      East Line of the  
UNIVERSITY 15 SW Lease.

## FORMER FIELD (WITH RESERVOIR) &amp; 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.): 1600.0

Date: 08/22/2012

SWR 13 Exception

Depth (ft.):

**INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION**

Date of test: 12/07/2012

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): 7.00

Gas (MCF): 22

Gas - Oil Ratio: 3142

Flowing Tubing Pressure:

Water (BBLs): 222

**CALCULATED 24-HOUR RATE**

Oil (BBLs): 7.0

Gas (MCF): 22

Oil Gravity - API - 60.: 32.2

Casing Pressure:

Water (BBLs): 222

**CASING RECORD**

Row	Type of Casing	Casing Hole 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	8 5/8	12 1/4	1731			CLASS C	700	1251.0	0	Circulated to Surface
2	Conventional Production	5 1/2	7 7/8	4782			CLASS C	700	1483.0	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	4499	/

**PRODUCING/INJECTION/DISPOSAL INTERVAL**

Row	Open hole?	From (ft.)	To (ft.)
1	No	L 4340	4478.0

**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	23212# TOTAL PROP; 942 BBLs TOTAL FLUID, 394 BBLs 15% NEFE HCL	4340 4478

**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>
QUEEN	Yes	3685.0		Yes	
LOWER GRAYBURG	Yes	4240.0		Yes	
SAN ANDRES	Yes	4560.0		Yes	

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 - FILED THIS IP W-2 TO CORRECT THE IP W-2 THAT SANDRIDGE DID (TRACKING #61336) THAT HAD NO OIL PRODUCTION

**OPERATOR'S CERTIFICATION**

**Printed Name:** Mary Sutton

**Title:** Regulatory Analyst

**Telephone No.:** (432) 253-7966

**Date Certified:** 03/30/2015

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

RAILROAD COMMISSION OF TEXAS  
Oil and Gas Division

1 Operator's Name (As Shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
SANDRIDGE EXPLORATION & PRODUCTION	748011	08	ANDREWS
5 Field Name (Wildcat or Exactly as Shown on RRC Records)	6 API No	7 Drilling Permit No	
Fuhrman Mascho	42-003-44686	746889	
8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11 Well Number
UNIVERSITY 15 SW			3

CASING CEMENTING DATA		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date		10/1/2012					
13. *Drilled Hole Size		12 1/4					
*Ext. % Wash or Hole Enlargement							
14. Size of Casing (in. O.D.)		8 5/8					
15. Top of Liner (ft)							
16. Setting Depth (ft)		1731					
17. Number of Centralizers Used		10					
18. Hrs. Waiting on Cement Before Drill-Out		12+					
1 st Slurry	19. API Cement Used: No. of Sacks >	500					
	Class >	C					
	Additives >	REMARKS 1					
2 nd Slurry	No. of Sacks >	200					
	Class >	C					
	Additives >	REMARKS 2					
3 rd Slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >	915					
	Height (ft) >	2217					
2nd	Volume (cu.ft.) >	336					
	Height (ft) >	814					
3rd	Volume (cu.ft.) >						
	Height (ft) >						
	Volume (cu.ft.) >	1251					
	Height (ft) >	3031					
21 Was Cement Circulated to Ground Surface (or Bottom of Cellar) Outside Casing?		YES					
22 Remarks 1 6% Gel + 3% Salt + 1/8#/Sk Celloflake 2 2% CaCl2							

42-003-44086

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of Hole or Pipe Plugged (in)								
25. Depth to Bottom of Tubing or Drill Pipe (ft)								
26. Sacks of Cement Used (each plug)								
27. Slurry Volume Pumped (cu ft)								
28. Calculated Top of Plug (ft)								
29. Measured Top of Plug, if Tagged (ft)								
30. Slurry Wt (lbs/gal)								
31. Type Cement								

CEMENTERS 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.

M. SIGALA SERVICE SUPERVISOR  
Name and Title of Cementer's Representative

O-TEX PUMPING SERVICES  
Cementing Company

*Marc A. Sigala*  
Signature

2611 East I-20  
Address

Midland, Texas 79706  
City State Zip Code

432-686-8559  
Tel. Area Code Number

10/1/2012  
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.

*Rolando Madrid*  
Typed or Printed Name of Operator's Representative

*Operator Rep.*  
Title

*Rolando Madrid*  
Signature

123 P.S. Keen  
Address

OKC OK 73102  
City State Zip Code

405-429-5658  
Tel. Area Code Number

10/1/12  
Date Mo Day Yr

**Instruction to Form W-15, Cementing Report**

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

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. Form W-15 should be filed with the following:

- \* An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- \* Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- \* Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written applications, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 12 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. 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.

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

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1 Operator's Name (As Shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
SANDRIDGE EXPLORATION & PRODUCTION	748011	08	ANDREWS
5 Field Name (Wildcat or Exactly as Shown on RRC Records)	6 API No	7 Drilling Permit No	
Fuhrman Mascho	42-003-44686	746889	
8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11 Well Number
UNIVERSITY 15SW			#3

CASING CEMENTING DATA	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS		
			SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE	
12. Cementing Date			10/5/2012				
13. *Drilled Hole Size			7 7/8				
*Ext. % Wash or Hole Enlargement							
14. Size of Casing (in. O.D.)			5 1/2				
15. Top of Liner (ft)							
16. Setting Depth (ft)			4782				
17. Number of Centralizers Used			30				
18. Hrs. Waiting on Cement Before Drill-Out			12+				
19. API Cement Used: No. of Sacks >			500				
			Class >	C			
			Additives >	REMARK 1			
2 no Slurry			No. of Sacks >	200			
			Class >	C			
			Additives >	REMARK 2			
3 rd Slurry			No. of Sacks >				
			Class >				
			Additives >				
20. Slurry Pumped: Volume (cu. ft.) >			1225				
			Height (ft) >	7071			
2nd			Volume (cu. ft.) >	258			
			Height (ft) >	1489			
3rd			Volume (cu. ft.) >				
			Height (ft) >				
			Volume (cu. ft.) >	1483			
			Height (ft) >	8560			
21. Was Cement Circulated to Ground Surface (or Bottom of Cellar) Outside Casing?			NO				
22. Remarks 1 10%Gel + 3#sk/Kol-Seal + 1/4#sk/Celloflake + 5%Salt 2 2%Gel +5%Salt							





Tracking No.: 131636

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: 11/18/2012
Field Name FUHRMAN-MASCHO	Drilling Permit No. 746889	
Lease Name UNIVERSITY 15 SW	Lease/ID No. 43350	Well No. 3
County ANDREWS	API No. 42- 003-44686	

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 03/30/2015 Date
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-FOR RAILROAD COMMISSION USE ONLY-



Groundwater  
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date August 22, 2012

GAU File No.: SC- 15376

\*\*\*\*\* EXPEDITED APPLICATION \*\*\*\*\*

API Number C0300000

Attention: DANA ALANIE

SC\_748011\_C0300000\_000000\_15376.pdf

RRC Lease No. 000000

SANDRIDGE R&P LLC 123 ROBERT S KERR OKLAHOMA CITY OK 73102	---Measured---	Digital Map Location:
	1540 ft FWL	X-coord/Long 6747755
	761 ft FSL	Y-coord/Lat 6768669
	MRI:SECTION	Datum 27 Zone NC
P-5# 748011		

County ANDREWS

Lease & Well No. UNIVERSITY 15 SW 43 & ALL

Purpose ND

Location STR-UL, BLK-10, SEC-15, -- [TD-S200], [RRC 8],

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Texas Railroad Commission recommends:

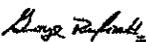
The interval from the land surface to a depth of 275 feet and the ZONE from 1100 feet to 1600 feet must be protected.

This recommendation is applicable to all wells drilled in this LEASE IN SECTION 15.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to wastewater disposal operations into a nonproductive zone (RRC Form 15-14).

If you have any questions, please contact us at 512-463-2741, [gsu@tms.state.tx.us](mailto:gsu@tms.state.tx.us), or by mail.

Sincerely,

  
Digitally signed by George Dunfield  
DN: cn=Dunfield, ou=70004, ou=ASG, ou=Oil and Gas  
Division of Texas, c=George Dunfield,  
email=gsu@tms.state.tx.us, ou=ASG,  
ou=70004, ou=ASG, ou=Oil and Gas  
Division of Texas

George Dunfield, P.G.

Geologist, Groundwater Advisory Unit  
Oil & Gas Division

GEOLOGIST SEAL



The seal appearing on this document was authorized by George Dunfield on 8/22/2012  
Note: Alteration of this electronic document will invalidate the digital signature.