

# RAILROAD COMMISSION OF TEXAS

Tracking No.: 81002

Status: Submitted

Oil and Gas Division

This facsimile W-2 was generated electronically  
from data submitted to the RRC.

API No. **42- 003-43202**

7. RRC District No.  
**08**

8. RRC Lease No.  
**42740**

9. Well No.  
**1**

10. County of well site  
**ANDREWS**

## Oil Well Potential Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat)  
**WILDCAT**

2. LEASE NAME  
**UNIVERSITY 1-21**

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report)  
**SAMSON LONE STAR, LLC**

RRC Operator No.  
**744737**

4. ADDRESS  
**TWO WEST SECOND STREET TULSA, OK 74103-0000**

5. If Operator has changed within last 60 days, name former operator

6a. Location (Section, Block, and Survey)  
**21 , 1 , UL**

6b. Distance and direction to nearest town in this county.  
**9 MILES SE FROM ANDREWS, TX**

11. Purpose of filing  
Initial Potential ☐  
Retest ☐  
Reclass ☐  
Well record only (Explain in remarks) ☒

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.  
**FIELD & RESERVOIR**

GAS ID or  
OIL LEASE #

Oil-0  
Gas-G

Well #

**N/A**

13. Type of electric or other log run  
**Neutron logs**

14. Completion or recompletion date  
**07/03/2013**

### SECTION I- POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified infield rules.

15. Date of test	16. No. of hours tested	17. Production method (Flowing, Gas Lift, Jetting, Pumping- Size & Type of pump)			18. Choke size
19. Production during Test Period	Oil - BBLS	Gas - MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure PSI
				0	
20. Calculated 24-Hour Rate	Oil - BBLS	Gas - MCF	Water - BBLS	Oil Gravity-API-60°	Casing Pressure PSI
21. Was swab used during this test?		22. Oil produced prior to test (New & Reworked wells)			23. Injection Gas-Oil Ratio
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
REMARKS: SWR10 EXCEPTION FILED 1/21/2013 - WAITING ON APPROVAL FOR DESIGNATION OF REPORTING FIELD.					
WRO W2 WITH ALL ATTACHMENTS WAS FILED 6/22/12 #46633.					

**INSTRUCTIONS:** File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

#### WELL TESTERS CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

Signature: Well Tester

Name of Company

RRC Representative

#### OPERATOR'S CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge.

**SAMSON LONE STAR, LLC**

Type or printed name of operator's representative

(918) 591-1971

07/29/2013

Telephone: Area Code Number Month Day Year

**Sr. Engineering Tech.**

Title of Person

**Kathy Staton**

Signature

SECTION III DATA ON WELL COMPLETION AND LOG (Not Required on Retest)											
24. Type of Completion New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input checked="" type="checkbox"/>					25. Permit to Drill, Plug Back or Deepen DATE 07/28/2011 PERMIT NO. 720698 Rule 37 Exception CASE NO.						
26. Notice of Intention to Drill this well was filed in Name of <b>SAMSON LONE STAR, LLC</b>					Water Injection Permit PERMIT NO.						
27. Number of producing wells on this lease in this field (reservoir) including this well <b>1</b>			28. Total number of acres in this lease <b>324.4</b>		Salt Water Disposal Permit PERMIT NO.						
29. Date Plug Back, Deepening, Workover or Drilling Operations: <b>06/24/2013</b>			Completed <b>07/03/2013</b>		30. Distance to nearest well, Same Lease & Reservoir <b>0.0</b>						
31. Location of well, relative to nearest lease boundaries <b>1980.0</b> Feet From <b>North</b> Line and <b>660.0</b> Feet from <b>East</b> Line of the <b>UNIVERSITY 1-21</b> Lease											
32. Elevation (DF, RKB, RT, GR ETC.) <b>3123</b> <b>GL</b>					33. Was directional survey made other than inclination (Form W-12)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
34. Top of Pay <b>9842</b>		35. Total Depth <b>11210</b>		36. P. B. Depth <b>11130</b>		37. Surface Casing Determined by Field Rules <input type="checkbox"/> Recommendation of T.D.W.R. Railroad Commission (Special) <input checked="" type="checkbox"/>		Dt. of Letter <b>07/27/2011</b> Dt. of Letter <b>08/09/2011</b>			
38. Is well multiple completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No. <b>FIELD &amp; RESERVOIR</b>					GAS ID or OIL LEASE #		Oil-Gas-G		Well #		
40. Intervals Drilled by: Rotary Tools <input checked="" type="checkbox"/> Cable Tools					41. Name of Drilling Contractor <b>BASIC ENERGY &amp; RISING STAR</b>					42. Is Cementing Affidavit Attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
43. CASING RECORD (Report All Strings Set in Well)											
CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.				
13 3/8	48.0	340		CLASS C 475	17 1/2	0	641.0				
8 5/8	32.0	0	1666	ECONOCHEM-C 485	11	775	953.0				
8 5/8	32.0	6620		ECONOCHEM-C 1623	11	1666	3648.0				
5 1/2	17.0	0	9144	CLASS H 500	7 7/8	8300	635.0				
5 1/2	17.0	11210		CLASS H 800	7 7/8	9144	1000.0				
44. LINER RECORD											
Size		Top		Bottom		Sacks Cement		Screen			
N/A											
45. TUBING RECORD											
Size	Depth Set	Packer Set	46. Producing Interval (this completion) Indicate depth of perforation or open hole								
2 7/8	9785		From 9842	To 9852							
			From 11005	To 11019							
			From 10372	To 10382							
			From	To							
47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE. ETC.											
Depth Interval			Amount and Kind of Material Used								
10372.0 - 10382.0			PERF MISSISSIPPIAN, FRAC W/78613 GALS FLUID & 73320# PROP								
6530.0 - 7937.0			ADDITIONAL CEMENT FOR PRODUCTION CSG: 285 SX / 60 BBLs CLASS H								
8114.0 - 8116.0			PERF 8114'-8116'								
8114.0 - 8116.0			SQUEEZED PERFS @ 8114'-8816'. RETAINER SET @ 7992'.								
48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)											
Formations	Depth		Formations	Depth							
WOLFCAMP	8384.0										
WOODFORD	10779.0										
DEVONIAN	10845.0										
REMARKS: CURRENTLY PRODUCING INTERVALS: STRAWN 9842'-9852'; DEVONIAN 11005'-11019'; MISSISSIPPIAN 10372'-10382'											



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

**RAILROAD COMMISSION OF TEXAS**  
Oil and Gas Division

**Form W-15**  
Cementing Report  
Rev. 4/1/83  
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) <b>Samson Lone Star, LHC</b>	2. RRC Operator No. <b>744737</b>	3. RRC District No. <b>08</b>	4. County of Well Site <b>Andrews</b>
5. Field Name (Wildcat or exactly as shown on RRC records)		6. API No. <b>42-003-43202</b>	7. Drilling Permit No. <b>720698</b>
8. Lease Name <b>University 1-21</b>	9. Rule 37 Case No.	10. Oil Lease/Gas ID No. <b>42740</b>	11. Well No. <b>1</b>

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date							
13. • Drilled hole size							
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)							
15. Top of liner (ft.)							
16. Setting depth (ft.)							
17. Number of centralizers used							
18. Hrs. waiting on cement before drill-out							
1st Slurry	19. API cement used: No. of sacks ▶						
	Class ▶						
	Additives ▶						
2nd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶						
	Height (ft.) ▶						
2nd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?							
22. Remarks <b>Squeezed Perfs @ 8114'-8116'. Retainer set @ 7992', Stung out of ret w/2150psi on csg.</b>							

**OVER** ►

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing Date	7/3/12							
24. Size of hole or pipe plugged (in.)	5 1/2"							
25. Depth to bottom of tubing or drill pipe (ft.)	7992'							
26. Sacks of cement used (each plug)	150							
27. Slurry volume pumped (cu. ft.)	177							
28. Calculated top of plug (ft.)	7992'							
29. Measured top of plug, if tagged (ft.)	---							
30. Slurry wt. (lbs/gal)	15.6							
31. Type cement	H							

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 the well as shown in this 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.

**Thomas Bowden, Field Supervisor**

Name and title of cementer's representative

**Basic Energy Services**

Cementing Company

*Thomas Bowden*  
Signature

**P O Box 10451**

Address

**Midland**

City

**TX**

State

**79702**

Zip Code

**432-687-1994**

Tel.: Area Code

Number

**7/11/13**

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 the 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.

**Brad Hansen**

Typed or printed name of operator's representative

**Sr. District Engineer**

Title

*Bradley P. Hansen*  
Signature

**10077 Grogans Mill Road, Suite 530**

Address

**The Woodlands**

City

**TX**

State

**77380**

Zip Code

**918 560-6475**

Tel.: Area Code

Number

**7/29/13**

Date: mo. day yr.

## Instructions 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 Form 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 country 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 application, 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 13 (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 1,000 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.



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

Form W-15  
Cementing Report

# RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1. Operator's Name (As Shown on Form P-3, Organization Record)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
Samson Lone Star, LLC	744737	08	Andrews
5. Field Name (Wildcat or Exactly as Shown on RRC Records)	6. API No.	7. Drilling Permit No.	
	42-003-43202	720698	
8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number
UNIVERSITY 1-21		42740	1

CASING CEMENTING DATA		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date							
13. *Drilled Hole Size							
*Ext. % Wash or Hole Enlargement							
14. Size of Casing (in. O.D.)							
15. Top of Liner (ft)							
16. Setting Depth (ft)							
17. Number of Centralizers Used							
18. Hrs. Waiting on Cement Before Drill-Out							
1st Slurry	19. API Cement Used: No. of Sacks >						
	Class >						
	Additives >						
2nd Slurry	No. of Sacks >						
	Class >						
	Additives >						
3rd Slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >						
	Height (ft) >						
2nd	Volume (cu.ft.) >						
	Height (ft) >						
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >						
	Height (ft) >						
21. Was Cement Circulated to Ground Surface (or Bottom of Collar) Outside Casing?							
22. Remarks							
PUMP 285 SKS / 60 BBLs CLASS H + 0.2% C-15 + 0.2% C-20 + 0.25% R-38, DOWN 2 7/8" TUBING AND DISPLACE TO 7937 FT							
LEAVING 0.5 BBL ON TOP OF RETAINER AND REVERSED OUT 75 BBLs							
CIRCULATED .5 BBL / 2.5 SKS TO SURFACE							

OVER →



CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date	6/28/13							
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)	285							
27. Slurry Volume Pumped (cu.ft.)	336.3							
28. Calculated Top of Plug (ft)	6530							
29. Measured Top of Plug, If Tagged (ft)								
30. Slurry Wt. (lbs/gal)	15.6							
31. Type Cement	H							

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.

**Rodney Hardesty**

Name and Title of Cementer's Representative

**RISING STAR SERVICES LP.**

Cementing Company

Signature

**P.O. BOX 61210**

**MIDLAND**

**TX.**

**79711**

**(432) 617-0114**

**June 28, 2013**

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.

**Brad Hansen**

Typed or Printed Name of Operators Representative

**Sr. District Engineer**

Title

Signature

**10077 Crograns Mill Road Suite 530**

Address

City

State

Zip Code

**918 560-6475**

Tel: Area Code Number

**7/29/13**

Date: Mo. Day Yr.

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

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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.