RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 01/10/2017
Tracking No.: 166589

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

OPERATOR INFORMATION

Operator Name: WARREN AMERICAN OIL COMPANY, LLC **Operator No.:** 897722
Operator Address: PO BOX 470372 TULSA, OK 74147-0372

WELL INFORMATION

API No.: 42-105-42255 **County:** CROCKETT
Well No.: 6 **RRC District No.:** 7C
Lease Name: UNIVERSITY OF TEXAS - 245 **Field Name:** FARMER (SAN ANDRES)
RRC Lease No.: 09705 **Field No.:** 30243500
Location: Section: 4, Block: 46, Survey: UL, Abstract:

Latitude: 30.99021 **Longitude:** -101.35980
This well is located 14 **miles in a** SE **direction from** BIG LAKE, **which is the nearest town in the county.**

FILING INFORMATION

Purpose of filing: Initial Potential
Type of completion: New Well
Well Type: Producing **Completion or Recompletion Date:** 07/03/2016

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	06/01/2015	806873
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 07/21/2015 **Date of first production after rig released:** 07/03/2016
Date plug back, deepening, recompletion, or drilling operation commenced: 06/19/2016 **Date plug back, deepening, recompletion, or drilling operation ended:** 07/03/2016
Number of producing wells on this lease in this field (reservoir) including this well: 6 **Distance to nearest well in lease & reservoir (ft.):** 1376.0
Total number of acres in lease: 258.00 **Elevation (ft.):** 2577 GL
Total depth TVD (ft.): 2343 **Total depth MD (ft.):**
Plug back depth TVD (ft.): **Plug back depth MD (ft.):**
Was directional survey made other than inclination (Form W-12)? No **Rotation time within surface casing (hours):** 48.0
Is Cementing Affidavit (Form W-15) attached? No
Recompletion or reclass? No **Multiple completion?** No
Type(s) of electric or other log(s) run: Combo of Induction/Neutron/Density/Sonic
Electric Log Other Description:
Location of well, relative to nearest lease boundaries of lease on which this well is located: 1058.0 **Feet from the** West **Line and** 2320.0 **Feet from the** North **Line of the** UNIVERSITY OF TEXAS - 245 **Lease.** **Off Lease :** No

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.):** 750.0 **Date:** 11/28/2012

SWR 13 Exception **Depth (ft.):**

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 07/04/2016 **Production method:** Pumping

Number of hours tested: 24 **Choke size:**

Was swab used during this test? No **Oil produced prior to test:** 59.00

PRODUCTION DURING TEST PERIOD:

Oil (BBLS): 18.00 **Gas (MCF):** 21

Gas - Oil Ratio: 1166 **Flowing Tubing Pressure:**

Water (BBLS): 20

CALCULATED 24-HOUR RATE

Oil (BBLS): 18.0 **Gas (MCF):** 21

Oil Gravity - API - 60.: 34.0 **Casing Pressure:** 48.00

Water (BBLS): 20

CASING RECORD

Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Tool 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	8 5/8	12 1/4	841			C	530	832.0	SURFACE	Circulated to Surface
2	Conventional Production	5 1/2	7 7/8	2327			C	310	427.0	1093	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

N/A

TUBING RECORD

Row	Size (in.)	Depth Size (ft.)	Packer Depth (ft.)/Type
1	2 3/8	2109	/

PRODUCING/INJECTION/DISPOSAL INTERVAL

Row	Open hole?	From (ft.)	To (ft.)
1	No	L 2032	2042.0

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

Was hydraulic fracturing treatment performed? Yes

Is well equipped with a downhole actuation sleeve? No **If yes, actuation pressure (PSIG):**

Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: 3000 **Actual maximum pressure (PSIG) during hydraulic fracturing:** 1597

Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)? Yes

Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)	
1	Acid	3000 GAL 15% HCL	2032	2042

2	Fracture	74,500 PDS 16/30 SAND	2032	2042

FORMATION RECORD

Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
QUEEN	Yes	1640.0		Yes	
SAN ANDRES	Yes	1858.0		Yes	
LEONARD	No			No	ZONE BELOW TD
WOLFCAMP	No			No	ZONE BELOW TD
CANYON	No			No	ZONE BELOW TD
STRAWN	No			No	ZONE BELOW TD
DEVONIAN	No			No	ZONE BELOW TD
ELLENBURGER	No			No	ZONE BELOW TD

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

ALL ATTACHMENTS (W-12, W-15, L-1, LOG COPY & SURVEY) WERE PREVIOUSLY SUBMITTED AND ARE ATTACHED TO TRACKING #148462

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:

OPERATOR'S CERTIFICATION

Printed Name: Cheryl Dixon **Title:** Land Manager

Telephone No.: (918) 481-7942 **Date Certified:** 12/29/2016

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

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

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
Warren American Oil Company, LLC	893722	7C	Crockett

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
Farmer (San Andres)	42-105 42255	806873

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
University of Texas 245		09705	6

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		7-22-15					
13. •Drilled hole size		12 1/4					
•Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)		8 5/8					
15. Top of liner (ft.)							
16. Setting depth (ft.)		841					
17. Number of centralizers used		8					
18. Hrs. waiting on cement before drill-out		264					
1st Slurry	19. API cement used: No. of sacks ▶	230					
	Class ▶	c-lite					
	Additives ▶	cello					
2nd Slurry	No. of sacks ▶	200					
	Class ▶	c					
	Additives ▶	cc,cello					
3rd Slurry	No. of sacks ▶	100					
	Class ▶	c					
	Additives ▶	cc,cello					
1st	20. Slurry pumped: Volume (cu. ft.) ▶	432					
	Height (ft.) ▶	1046					
2nd	Volume (cu. ft.) ▶	266					
	Height (ft.) ▶	644					
3rd	Volume (cu. ft.) ▶	134					
	Height (ft.) ▶	324					
Total	Volume (cu. ft.) ▶	832					
	Height (ft.) ▶	2014					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		yes					

22. Remarks topped off thru 1" w/100 sx class c.

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								
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								

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.

Michael Tollett — Name and title of cementer's representative

BASIC ENERGY SERVICES — Cementing Company

Signature

P. O. Box 1519 — Address

Eastland, TX 76448 — City, State, Zip Code

254-442-2200 — Tel.: Area Code Number

July 22 2015 — 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.

John Burroughs — Typed or printed name of operator's representative

VP Operations — Title

Signature

P.O. Box 470372 — Address

Tulsa — City,

OK 74147 — State, Zip Code

918\481-7990 — Tel.: Area Code Number

8/1/15 — 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 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 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.

Cementer: 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)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
Warren American Oil Co., LLC	897722	7C	Crockett

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
Farmer (San Andres)	42-10542255	806873

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
University of Texas 245		09705	6

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				8-7-15			
13. •Drilled hole size				7 7/8			
•Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)				5 1/2			
15. Top of liner (ft.)							
16. Setting depth (ft.)				2327			
17. Number of centralizers used				13			
18. Hrs. waiting on cement before drill-out							
1st Slurry	19. API cement used: No. of sacks ▶			110			
	Class ▶			c-lite			
	Additives ▶			cello			
2nd Slurry	No. of sacks ▶			200			
	Class ▶			c			
	Additives ▶			cc,cello			
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶			226			
	Height (ft.) ▶			1304			
2nd	Volume (cu. ft.) ▶			201			
	Height (ft.) ▶			1160			
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶			427			
	Height (ft.) ▶			2464			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				no			

22. Remarks

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								
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								

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.

Austin Busby	BASIC ENERGY SERVICES	Austin Busby
Name and title of cementer's representative	Cementing Company	Signature

P. O. Box 1519	Eastland, TX 76448	254-442-2200	August 7 2015
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.

John Burroughs	VP Operations	John Burroughs
Typed or printed name of operator's representative	Title	Signature

P.O. Box 470372	Tulsa	OK 74147	918 481-7990	8 15 15
Address	City,	State, Zip Code	Tel.: Area Code Number	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).

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- 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 county in which the well is located.

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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 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.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)
FOD1296

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report)

6. RRC District: **7C**
7. RRC Lease Number. (Oil completions only): 09705
8. Well Number: **6**
9. RRC Identification Number (Gas completions only):
10. County: Crockett

1. FIELD NAME (as per RRC Records or Wildcat): Farmer (San Andres)
2. LEASE NAME: **University of Texas 245**
3. OPERATOR: **Warren American Oil Company, LLC**
4. ADDRESS: **6585 S. Yale Suite 800, Tulsa, OK 74136**
5. LOCATION (Section, Block, and Survey): **14 miles SE direction from Big Lake**

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle x100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
475	475	0.500	.873	4.145	4.15
916	441	0.500	.873	3.848	7.99
1388	472	0.500	.873	4.119	12.11
1860	472	0.500	.87	4.12	16.23
2300	440	0.500	.87	3.84	20.07
2343	43	0.500	.87	.38	20.45

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes XX no
18. Accumulative total displacement of well bore at total depth of **2343** feet = **20.45** feet.
*19. Inclination measurements were made in - Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe
20. Distance from surface location of well to the nearest lease line ..... 1058 feet.
21. Minimum distance to lease line as prescribed by field rules ..... 330 feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? **No**

(If the answer to the above question is "yes," attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

James R. Phillips
Signature of Authorized Representative

James R. Phillips, Member
Name of Person and Title (type or print)

Blue Line Drilling Co., LLC
Name of Company

Telephone: **(325) 653-1891**
Area Code

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

John Burroughs
Signature of Authorized Representative

John Burroughs
Name of Person and Title (type or print)

Warren American Oil Co., LLC
Operator

Telephone: 918 481-7990
Area Code

Railroad Commission Use Only:

Approved By: _____ Title: _____ Date: _____

* Designates items certified by company that conducted the inclination surveys.

RECORD OF INCLINATION (Continued from reverse side)

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle x100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)

If additional space is needed, attach separate sheet and check here. ☐

REMARKS: ______________________________

- INSTRUCTIONS -

An inclination survey made by persons or concerns approved by the Commission shall be filed on a form prescribed by the Commission for each well drilled or deepened with rotary tools or when, as a result of any operation, the course of the well is changed. No inclination survey is required on wells that are drilled and completed as dry holes that are plugged and abandoned. (Inclination surveys are required on re-entry of abandoned wells.) Inclination surveys must be made in accordance with the provisions of Statewide Rule 11.

This report shall be filed in the District Office of the Commission for the district in which the well is drilled, by attaching one copy to each appropriate completion for the well. (except Plugging Report)

The Commission may require the submittal of the original charts, graphs, or discs, resulting from the surveys.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

ELECTRIC LOG STATUS REPORT

FORM L-1

Tracking No.: 148462

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: WARREN AMERICAN OIL COMPANY, LLC	District No. 7C	Completion Date: 08/08/2015
Field Name FARMER (SAN ANDRES)	Drilling Permit No. 806873	
Lease Name UNIVERSITY OF TEXAS - 245	Lease/ID No. 09705	Well No. 6
County CROCKETT	API No. **42-** 105-42255	

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). _____

Cheryl Dixon Signature	Land Manager Title
WARREN AMERICAN OIL COMPANY, LLC Name (print)	(918) 481-7942 Phone 01/06/2016 Date

-FOR RAILROAD COMMISSION USE ONLY-

Tucker ENERGY SERVICES

DUAL LATEROLOG / MSFL

RESISTIVITY LOG

Company WARREN AMERICAN OIL COMPA
Well UNIVERSITY OF TEXAS 245 #6
Field FARMER(SAN ANDRES)
County CROCKETT
State TEXAS
Country USA
API No. 42-105-42255

File No : ABL-60688
Company : WARREN AMERICAN OIL COMPANY,LLC
Well : UNIVERSITY OF TEXAS 245 #6
Field : FARMER(SAN ANDRES)
County : CROCKETT
State : TEXAS
Country : USA
API No : 42-105-42255

Location :
1720' FEL & 2320' FNL
OF SURVEY UL BLK. 46

LSD : **Sect :** 4 **Twp :** **Rge :**

Permanent Datum:	GL	Elevations:		Services:	
Drilling Measured From:	KB	KB	2586.00 Ft	CNT	CST
Log Measured From:	KB	DF	2685.00 Ft	LDT	DLT
Above Permanent Datum:	9.00 Ft	GL	2577.00 Ft	MLT	

Date	08-06-2015			
Run Number	1			
Depth--Driller	2343.0 Ft			
Depth--Logger	2344.0 Ft			
First Reading	2343.0 Ft			
Last Reading	844.0 Ft			
Casing--Driller	836.0 Ft			
Casing--Logger	844.0 Ft			
Bit Size	7.875 In			
Casing Size	8.625 In			
Hole Fluid Type	SWG/STARCH/LIME			
Density	9.7 ppg			
Fluid Loss	0.0			
PH/Viscosity	13.0	29.0 sec/qt		
Sample Source	MEASURED			
RM@Measured Temp.	0.200 @ 90 F			
RMF@Measured Temp	0.160 @ 90 F			
RMC@Measured Temp.	0.240 @ 90 F			
Source RMF/RMC	CALCULATED	CALCULATED		
RM@BHT	0.020 @ 105 F			
Time Circulation Stopped	08-06-2015 2:00 pm			
Max Recorded Temp.	105 F			
Equipment/Base	TRK-127	ABILENE, TX		
Recorded By	J. ADAMS			
Witnessed By	N, BUCHANAN			

Tucker ENERGY SERVICES

COMPENSATED NEUTRON

PEL DENSITY LOG

Company WARREN AMERICAN OIL COMPANY
Well UNIVERSITY OF TEXAS 245 #6
Field FARMER(SAN ANDRES)
County CROCKETT
State TEXAS
Country USA
API No. 42-105-42255

File No : ABL-60688
Company : WARREN AMERICAN OIL COMPANY,LLC
Well : UNIVERSITY OF TEXAS 245 #6
Field : FARMER(SAN ANDRES)
County : CROCKETT
State : TEXAS
Country : USA
API No : 42-105-42255

Location :
1720' FEL & 2320' FNL
OF SURVEY UL BLK. 46

LSD : **Sect :** 4 **Twp :** **Rge :**

Permanent Datum:	GL	Elevations:		Services:	
Drilling Measured From:	KB	KB 2586.00	Ft	CNT	CST
Log Measured From:	KB	DF 2685.00	Ft	LDT	DLT
Above Permanent Datum:	9.00 Ft	GL 2577.00	Ft	MLT	

Date	08-06-2015			
Run Number	1			
Depth--Driller	2343.0 Ft			
Depth--Logger	2344.0 Ft			
First Reading	2343.0 Ft			
Last Reading	844.0 Ft			
Casing--Driller	836.0 Ft			
Casing--Logger	844.0 Ft			
Bit Size	7.875 In			
Casing Size	8.625 In			
Hole Fluid Type	SWG/STARCH/LIME			
Density	9.7 ppg			
Fluid Loss	0.0			
PH/Viscosity	13.0	29.0 sec/qt		
Sample Source	MEASURED			
RM@Measured Temp.	0.200 @ 90 F			
RMF@Measured Temp	0.160 @ 90 F			
RMC@Measured Temp.	0.240 @ 90 F			
Source RMF/RMC	CALCULATED	CALCULATED		
RM@BHT	0.020 @ 105 F			
Time Circulation Stopped	08-06-2015 2:00 pm			
Max Recorded Temp.	105 F			
Equipment/Base	TRK-127	ABILENE, TX		
Recorded By	J. ADAMS			
Witnessed By	N, BUCHANAN			

Tucker ENERGY SERVICES

BOREHOLE COMPENSATED SONIC LOG

Company WARREN AMERICAN OIL COMPAI
Well UNIVERSITY OF TEXAS 245 #6
Field FARMER(SAN ANDRES)
County CROCKETT
State TEXAS
Country USA
API No. 42-105-42255

File No : ABL-60688
Company : WARREN AMERICAN OIL COMPANY,LLC
Well : UNIVERSITY OF TEXAS 245 #6
Field : FARMER(SAN ANDRES)
County : CROCKETT
State : TEXAS
Country : USA
API No : 42-105-42255

Location :
1720' FEL & 2320' FNL
OF SURVEY UL BLK. 46

LSD : **Sect :** 4 **Twp :** **Rge :**

Permanent Datum:	GL	Elevations:		Services:	
Drilling Measured From:	KB	KB	2586.00 Ft	CNT	CST
Log Measured From:	KB	DF	2685.00 Ft	LDT	DLT
Above Permanent Datum:	9.00 Ft	GL	2577.00 Ft	MLT	

Date	08-06-2015	
Run Number	1	
Depth--Driller	2343.0 Ft	
Depth--Logger	2344.0 Ft	
First Reading	2307.0 Ft	
Last Reading	844.0 Ft	
Casing--Driller	836.0 Ft	
Casing--Logger	844.0 Ft	
Bit Size	7.875 In	
Casing Size	8.625 In	
Hole Fluid Type	SWG/STARCH/LIME	
Density	9.7 ppg	
Fluid Loss	0.0	
PH/Viscosity	13.0 29.0 sec/qt	
Sample Source	MEASURED	
RM@Measured Temp.	0.200 @ 90 F	
RMF@Measured Temp	0.160 @ 90 F	
RMC@Measured Temp.	0.240 @ 90 F	
Source RMF/RMC	CALCULATED CALCULATED	
RM@BHT	0.020 @ 105 F	
Time Circulation Stopped	08-06-2015 2:00 pm	
Max Recorded Temp.	105 F	
Equipment/Base	TRK-127 ABILENE, TX	
Recorded By	J. ADAMS	
Witnessed By	N, BUCHANAN	

Groundwater
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date: November 28, 2012

GAU File No.: SC- 15032

***** EXPEDITED APPLICATION *****

API Number: 10500000

Attention: JOHN BURROUGHS

RRC Lease No.: 09705

SC_897500_10500000_09705_15032.pdf

WARREN AMERICAN OIL CO
P O BOX 470472
TULSA OK 74147

P-5# 897500

--Measured--
1719 ft FEL
330 ft FNL

MRL:SECTION

Digital Map Location:
X-coord/Long: 1678414
Y-coord/Lat: 484839
Datum: 27 Zone: C

County: CROCKETT Lease & Well No.: UNIVERSITY OF TEXAS 245 #3&ALL Purpose: ND

Location: SUR-UL,BLK-46,SEC-4,--[TD=2500],[RRC 7C],

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

The interval from land surface to the base of the SANTA ROSA, which is estimated to occur at a depth between 750 and 800 feet, must be protected.

This recommendation is adequate for all wells drilled in this NE/4 section 4.

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 saltwater disposal operation into a nonproductive zone (RRC Form W-14).

If you have any questions, please contact us at 512-463-2741, gau@rrc.state.tx.us, or by mail.

Sincerely,

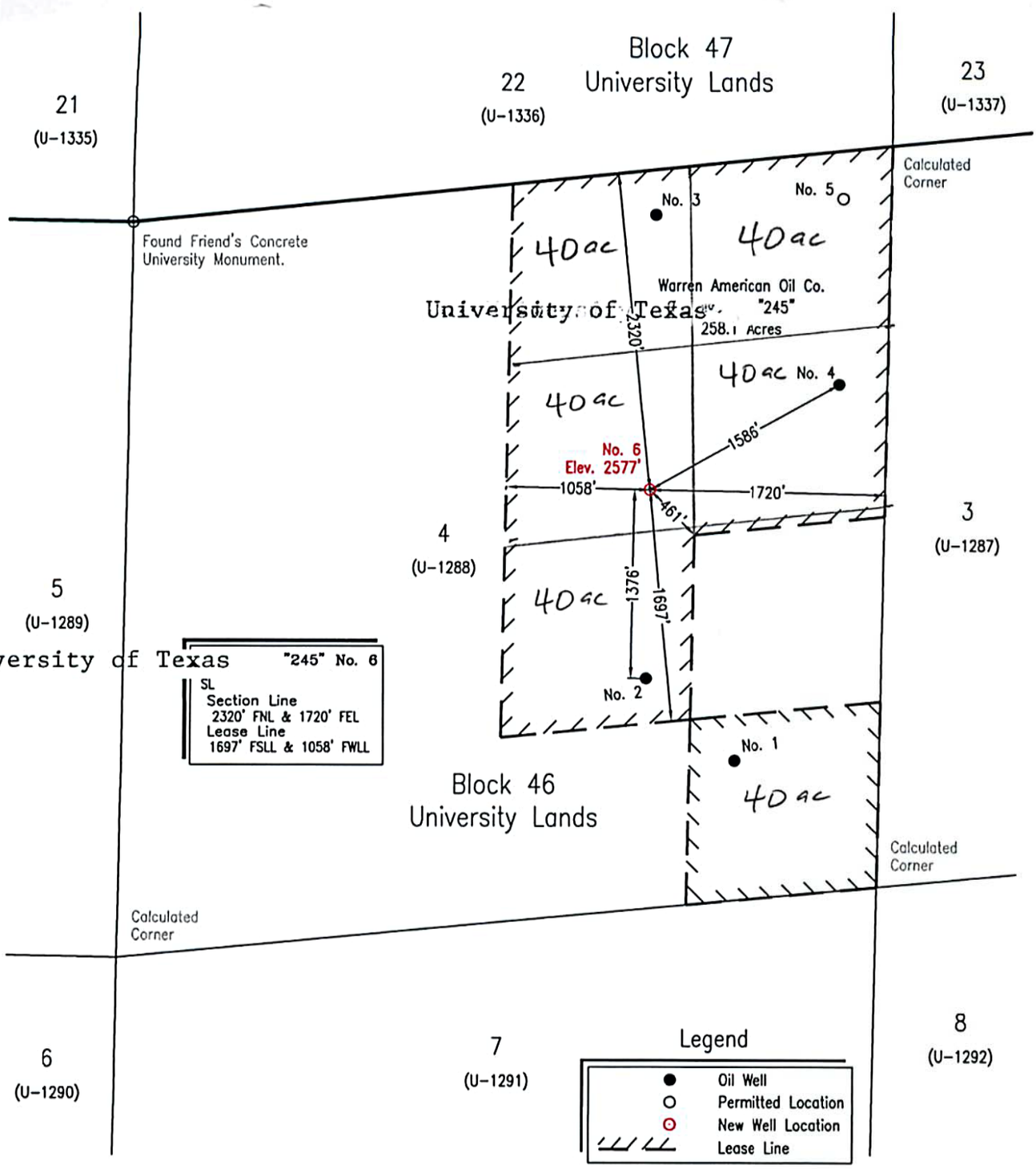
Digitally signed by Jack Oswalt
DN: c=US, st=TEXAS, l=Austin, o=Railroad Commission of Texas, cn=Jack Oswalt, email=jack.oswalt@rrc.state.tx.us
Date: 2012.11.28 10:03:41 -0600

Jack M. Oswalt, P.G.
Geologist, Groundwater Advisory Unit
Oil & Gas Division

GEOLOGIST SEAL

STATE OF TEXAS
Jack M. Oswalt
Geology
897
LICENSED
PROFESSIONAL GEOSCIENTIST

The seal appearing on this document was authorized by Jack M. Oswalt on 11/28/2012
Note: Alteration of this electronic document will invalidate the digital signature.



STATE OF TEXAS
REGISTERED
MICHAEL L. STANFORD
4413
PROFESSIONAL
LAND SURVEYOR

Michael L. Stanford

Driving Directions:
From the intersection of Hwy 67 and Hwy. 137 in Big Lake, TX go south on Hwy. 137 approx. 8.25 miles to Hwy. 205, Turn left and go west on Hwy. 205 approx. 9.5 miles to a lease road by a tank battery, Turn right and go south on a lease road approx. 355 feet, Turn right and go south on a Lease road approx. 0.65 miles, Turn left and go south on a road approx. 1.55 miles. This staked well location is approx. 10 feet West.

This plat is for Texas Railroad Commission Permit Purposes Only and is NOT a boundary survey and is NOT to be used to convey or establish interests in real property.

BASIS OF BEARINGS is the Texas State Plane Coordinate System Central Zone NAD 83.

Application for Well No. 6
15.2 Miles S.Southeast of Big Lake, TX.

NAD 27 Lat. = 30° 59' 24.76" / 30.990210°
NAD 27 Long. = -101° 21' 35.31" / -101.359809°
NAD 83 Lat. = 30° 59' 25.35" / 30.990373°
NAD 83 Long. = -101° 21' 36.73" / -101.360202°

Date Well Location Staked April 22, 2015
NAD 27 X = 1678373.7'
NAD 27 Y = 482835.1'

y of Texas

Warren American Oil Company
"245" No. 6 – 2320' FNL & 1720' FEL
Section 4, Block 46, University Lands Survey
Crockett County, Texas

STANFORD SURVEYING COMPANY
P.O. BOX 8490
MIDLAND, TEXAS 79708-8490
432-699-5708

DRAWN BY	DATE	SCALE	FILE NAME
Brian Lowery	4-30-2015	1" = 1000'	A-10192