

# RAILROAD COMMISSION OF TEXAS

Tracking No.: 45774  
Status: Submitted

Oil and Gas Division  
This facsimile W-2 was generated electronically  
from data submitted to the RRC.

API No. 42- 413-32782

7. RRC District No.  
7C

8. RRC Lease No.

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

1. FIELD NAME (as per RRC Records or Wildcat) <b>OZONA, NE. (CANYON 7520)</b>		2. LEASE NAME <b>UNIVERSITY SCHLEICHER 21</b>		9. Well No. <b>1</b>
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) <b>XOG OPERATING LLC</b>		RRC Operator No. <b>945921</b>		10. County of well site <b>SCHLEICHER</b>
4. ADDRESS <b>PO BOX 352 MIDLAND, TX 79702-0000</b>				11. Purpose of filing Initial Potential <input checked="" type="checkbox"/> Retest <input type="checkbox"/> Reclass <input type="checkbox"/> Well record only (Explain in remarks) <input type="checkbox"/>
5. If Operator has changed within last 60 days, name former operator				
6a. Location (Section, Block, and Survey) <b>21 , 53 , UL , A-U31</b>		6b. Distance and direction to nearest town in this county. <b>23 MILES NW OF EL DORADO</b>		
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. <b>FIELD &amp; RESERVOIR</b>		GAS ID or OIL LEASE #		Oil-O Gas-G
N/A				Well #
13. Type of electric or other log run <b>Neutron/Density logs (combo of tools)</b>		14. Completion or recompletion date <b>05/08/2012</b>		

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

15. Date of test <b>05/09/2012</b>	16. No. of hours tested <b>6</b>	17. Production method (Flowing, Gas Lift, Jetting, Pumping- Size & Type of pump) <b>Flowing</b>			18. Choke size <b>64/64</b>
19. Production during Test Period	Oil - BBLS <b>8.0</b>	Gas - MCF <b>12</b>	Water - BBLS <b>36</b>	Gas - Oil Ratio <b>1500</b>	Flowing Tubing Pressure <b>0.0</b> PSI
20. Calculated 24-Hour Rate	Oil - BBLS <b>32.0</b>	Gas - MCF <b>48</b>	Water - BBLS <b>144</b>	Oil Gravity-API-60° <b>39.0</b>	Casing Pressure <b>40.0</b> PSI
21. Was swab used during this test? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		22. Oil produced prior to test (New & Reworked wells) <b>20.0</b>			23. Injection Gas-Oil Ratio
REMARKS: N/A					

**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.

**XOG OPERATING LLC**

Type or printed name of operator's representative

**(432) 683-3171**

**05/25/2012**

Telephone: Area Code      Number      Month      Day      Year

Title of Person

**ANGIE CRAWFORD**

Signature

SECTION III										DATA ON WELL COMPLETION AND LOG (Not Required on Retest)																					
24. Type of Completion New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input type="checkbox"/>										25. Permit to Drill, Plug Back or Deepen <span style="float: right;">DATE 03/09/2012 PERMIT NO. 725733</span> Rule 37 Exception <span style="float: right;">CASE NO.</span> Water Injection Permit <span style="float: right;">PERMIT NO.</span> Salt Water Disposal Permit <span style="float: right;">PERMIT NO.</span> Other <span style="float: right;">PERMIT NO.</span>																					
26. Notice of Intention to Drill this well was filed in Name of <b>XOG OPERATING LLC</b>																															
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>331.75</b>																										
29. Date Plug Back, Deepening, Workover or Drilling Operations: <b>10/14/2011</b>					Commenced <b>10/30/2011</b>					Completed <b>0.0</b>																					
31. Location of well, relative to nearest lease boundaries <b>660.0</b> Feet From <b>North</b> Line and <b>660.0</b> Feet from <b>West</b> Line of the <b>UNIVERSITY SCHLEICHER 21</b> Lease																															
32. Elevation (D.F. RKB, RT. GR ETC.) <b>2521 GR</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>7202</b>			35. Total Depth <b>8220</b>			36. P. B. Depth <b>8137</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>09/01/2011</b> Dt. of Letter																			
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> <b>N/A</b>										GAS ID or OIL LEASE #			Oil-G Gas-G			Well #															
40. Intervals Drilled by: Rotary Tools <input checked="" type="checkbox"/> Cable Tools			41. Name of Drilling Contractor <b>VIKING</b>							42. Is Cementing Affidavit Attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																					
<b>CASING RECORD (Report All Strings Set in Well)</b>																															
CASING SIZE		WT #/FT.		DEPTH SET		MULTISTAGE TOOL DEPTH		TYPE & AMOUNT CEMENT (sacks)		HOLE SIZE		TOP OF CEMENT		SLURRY VOL. cu. ft.																	
10 3/4		40.5		682				CLASS C 550		14 3/4		SURFACE		925.0																	
7		23.0		8215		4203		50/50 POZ C 850		9 7/8		SURFACE		1802.0																	
7		23.0		8215				50/50 POZ H 1000		9 7/8		4203		1310.0																	
<b>44. LINER RECORD</b>																															
Size				Top				Bottom				Sacks Cement				Screen															
N/A																															
<b>45. TUBING RECORD</b>																<b>46. Producing Interval (this completion) Indicate depth of perforation or open hole</b>															
Size				Depth Set				Packer Set				From 7202				To 7926															
N/A												From				To															
												From				To															
												From				To															
<b>47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.</b>																															
Depth Interval								Amount and Kind of Material Used																							
7202.0								7926.0								ACIDIZE W/2500 GAL 15% HCL, FRAC W/76,000 GAL 70Q CO2 FOAM + 174,000# 20/40															
<b>48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)</b>																															
Formations				Depth				Formations				Depth																			
SPRAYBERRY				4080.0				STRAWN				7850.0																			
WOLFCAMP				5450.0				ELLENBURGER				7955.0																			
CANYON				7175.0																											
REMARKS: WILL SET TUBING AT A LATER DATE.																															

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) <b>XOG Operating LLC.</b>		2. RRC Operator No. <b>945921</b>	3. RRC District No. <b>7C</b>	4. County of Well Site <b>Schleicher</b>
5. Field Name (Wildcat or exactly as shown on RRC records) <b>OZONA, NE. (CANYON 7520)</b>			6. API No. <b>42-413-32782</b>	7. Drilling Permit No. <b>725733</b>
8. Lease Name <b>University <del>Schliezier</del> Schleicher 21</b>		9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	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		<b>10/16/11</b>					
13. • Drilled hole size		<b>14 3/4"</b>					
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)		<b>10 3/4"</b>					
15. Top of liner (ft.)		<b>Surface</b>					
16. Setting depth (ft.)		<b>682'</b>					
17. Number of centralizers used							
18. Hrs. waiting on cement before drill-out		<b>24</b>					
1st Slurry	19. API cement used: No. of sacks ▶	<b>350</b>					
	Class ▶	<b>C-Lite</b>					
	Additives ▶	<b>See Remarks</b>					
2nd Slurry	No. of sacks ▶	<b>200</b>					
	Class ▶	<b>C</b>					
	Additives ▶	<b>2%CaCl<sub>2</sub></b>					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶	<b>661</b>					
	Height (ft.) ▶	<b>1188'</b>					
2nd	Volume (cu. ft.) ▶	<b>264</b>					
	Height (ft.) ▶	<b>475'</b>					
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	<b>925</b>					
	Height (ft.) ▶	<b>1663'</b>					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		<b>Yes</b>					
22. Remarks <b>Lead: 350sx C-lite w/2%CaCl<sub>2</sub> + 1/4ppsCelloflake.</b> <b>Teail: 200sx C w/2%CaCl<sub>2</sub></b> <b>Circulated 91sx to plt.</b>							

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 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.

**Serge Manfoumbi, Specialist**

**Basic Energy Services**

Name and title of cementer's representative

Cementing Company

Signature

**P O Box 10451**

**Midland**

**TX**

**79702**

**432-687-1994**

**10/20/11**

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 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.

**ANGIE CRAWFORD**

**PRODUCTION ANALYST**

Typed or printed name of operator's representative

Title

Signature

**P. O. Box 352**

**Midland, TX 79702**

**432-683-3171**

**5/23/12**

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).

**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.

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) <b>XOG Operating LLC.</b>	2. RRC Operator No. <b>945921</b>	3. RRC District No. <b>7C</b>	4. County of Well Site <b>Schleicher</b>
5. Field Name (Wildcat or exactly as shown on RRC records) <b>OZONA, N.E. (CANYON 7520)</b>		6. API No. <b>42- 413-32782</b>	7. Drilling Permit No. <b>725733</b>
8. Lease Name <b>University Schleicher 21</b>	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	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						<b>10/29/11</b>	<b>10/29/11</b>
13. • Drilled hole size						<b>9 7/8"</b>	<b>9 7/8"</b>
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)						<b>7"</b>	<b>7"</b>
15. Top of liner (ft.)						<b>Surface</b>	<b>Surface</b>
16. Setting depth (ft.)						<b>4203'</b>	<b>8215'</b>
17. Number of centralizers used							
18. Hrs. waiting on cement before drill-out							
1st Slurry	19. API cement used: No. of sacks ▶					<b>800</b>	<b>1000</b>
	Class ▶					<b>50/50 Poz C</b>	<b>50/50 Poz H</b>
	Additives ▶					<b>See Remarks</b>	<b>See Remarks</b>
2nd Slurry	No. of sacks ▶					<b>50</b>	
	Class ▶					<b>C</b>	
	Additives ▶					<b>Neat</b>	
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶					<b>1736</b>	<b>1310</b>
	Height (ft.) ▶					<b>6572'</b>	<b>4950'</b>
2nd	Volume (cu. ft.) ▶					<b>66</b>	
	Height (ft.) ▶					<b>250'</b>	
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶					<b>1802</b>	
	Height (ft.) ▶					<b>6822'</b>	
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?						<b>Yes</b>	<b>No</b>
22. Remarks <b>Stage 1: Lead-1000sx 50/50/2 Poz H + 5%Salt + 3/10%C-15+ 2/10%C-41P + 3ppsKol-Seal.</b> <b>Stage 2: Lead-800sx 50/50/10 Poz C + 5%Salt + 2/10%C-41P + 1/4ppsCelloflake.</b> <b>Tail- 50sx C Neat</b> <b>Circulated 300sx to pit</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								
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 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.

**Serge Manfoumbi, Specialist**

**Basic Energy Services**

Name and title of cementer's representative

Cementing Company

Signature

**P O Box 10451**

**Midland**

**TX**

**79702**

**432-687-1994**

**11/04/11**

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 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.

**ANGIE CRAWFORD**

**PRODUCTION ANALYST**

Typed or printed name of operator's representative

Title

Signature

**P. O. Box 352**

**Midland, TX 79702**

**432-683-3171**

**5/23/12**

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

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**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.

## RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

ELECTRIC LOG  
STATUS REPORT

FORM L-1

Tracking No.: 45774

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: XOG OPERATING LLC	District No. 7C	Completion Date: 05/08/2012
Field Name OZONA, NE. (CANYON 7520)	Drilling Permit No. 725733	
Lease Name UNIVERSITY SCHLEICHER 21	Lease/ID No.	Well No. 1
County SCHLEICHER	API No. 42- 413-32782	

## 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). \_\_\_\_\_

ANGIE CRAWFORD

Signature

XOG OPERATING LLC

Name (print)

Title

(432) 683-3171

Phone

05/25/2012

Date

-FOR RAILROAD COMMISSION USE ONLY-

# Schlumberger

Company: **XOG Operating LLC**

Well: **University Schleicher 21 #1**

Field: **University 53 (Ellenburger)**

County: **Schleicher** State: **Texas**

County: Schleicher Field: University 53 (Ellenburger) Location: 660' FNL & 660' FWL Well: University Schleicher 21 #1 Company: XOG Operating LLC	<b>PLATFORM EXPRESS</b> <b>Compensated Neutron Log</b> <b>Three Detector LithoDensity</b>			
	660' FNL & 660' IWL Sec. 21, Blk. 53, Abs. U31 Survey: UL		Elev.: K.B. <b>2589.00 ft</b> G.L. <b>2571.00 ft</b> D.F. <b>2588.00 ft</b>	
	Permanent Datum: <u>Ground Level</u> Log Measured From: <u>Kelly Bushing</u> Drilling Measured From: <u>Kelly Bushing</u>		Elev.: <u>2571.00 ft</u> 18.00 ft <b>above Perm. Datum</b>	
	API Serial No <b>42-413-32782</b>		Section <b>21</b>	Block <b>53</b>
Logging Date		27-Oct-2011		
Run Number		One		
Depth Driller		8220 ft		
Schlumberger Depth		8176 ft		
Bottom Log Interval		8176 ft		
Top Log Interval		678 ft		
Casing Driller Size @ Depth		10.750 in @ 682 ft @		
Casing Schlumberger		678 ft		
Bit Size		9.875 in		
Type Fluid In Hole		Fresh Mud		
MUD	Density	Viscosity	9.3 lbm/gal	45 s
	Fluid Loss	PH	9 cm3	10
	Source Of Sample		Measured	
RM @ Measured Temperature		1.700 ohm.m @ 67 degF @		
RMF @ Measured Temperature		1.280 ohm.m @ 67 degF @		
RMC @ Measured Temperature		2.550 ohm.m @ 67 degF @		
Source RMF		RMC	Calculated	Calculated
RM @ MRT		RMF @ MRT	0.804 @ 148	0.605 @ 148 @
Maximum Recorded Temperatures		148 degF		
Circulation Stopped		Time	27-Oct-2011	8:30
Logger On Bottom		Time	27-Oct-2011	19:15
Unit Number		Location	7102	Abilene
Recorded By		Carla Bodensteiner		
Checked By		Mr. Jim Akin		

Groundwater  
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date September 1, 2011

GAU File No. SC- 4128

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

API Number 41300000

Attention: DENISE JONES

RRC Lease No. 0000000

SC\_945921\_41300000\_0000000\_4128.pdf

XOG OPERATING LLC  
PO BOX 352  
MIDLAND TX 79702

--Measured--

660 ft FWL

660 ft FNL

MRL: SURVEY

Digital Map Location:

X-coord/Long 100.93491

Y-coord/Lat 31.02824

Datum 83

Zone

P-5# 945921

County SCHLEICHER

Lease & Well No. UNIVERSITY SCHLEICHER 21 #1

Purpose ND

Location SUR-UL, BLK-53, SEC-21, -- [TD=8600], [RRC 7C],


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 20 feet below the base of Cretaceous-age beds must be protected. The base of the Cretaceous is estimated to occur at a depth of 600 feet.

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).

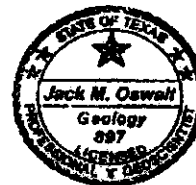
If you have any questions, please contact us at 512-463-2741, [gau@rrc.state.tx.us](mailto:gau@rrc.state.tx.us), or by mail

Sincerely,

  
Digitally signed by Jack M. Oswalt  
DN: cn=US, o=Texas, ou=Surface  
Coast, c=Texas, email=gau@rrc.state.tx.us  
Date: 2011.09.01 13:19:42 -0500

Jack M. Oswalt, P.G.

GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit  
Oil & Gas Division

The seal appearing on this document was authorized by Jack M. Oswalt on 9/1/2011  
Note: Alteration of this electronic document will invalidate the digital signature.

RRR TR Transition Form Rev. 8/1/2011 P.O. Box 12067 Austin, Texas 78711-2967 512-463-2741 Internet address: [www.rrc.state.tx.us](http://www.rrc.state.tx.us)

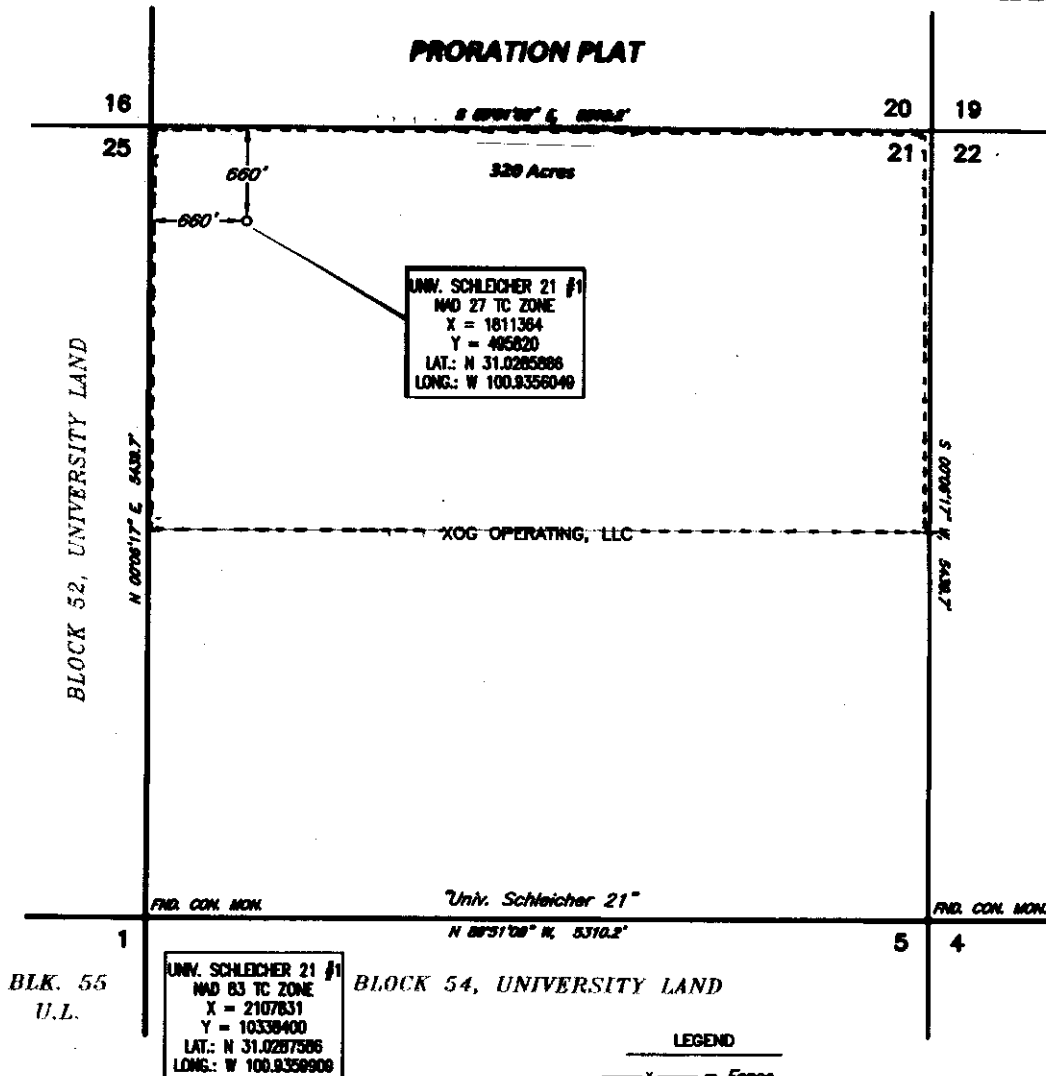
# TOPOGRAPHIC

SURVEYING • MAPPING • GIS • GPS  
2903 N. BIG SPRING • MIDLAND, TEXAS 79706  
TELEPHONE: (432) 682-1853 (800) 787-1853 • FAX (432) 682-1743

SCHLEICHER County, Texas

Description 680' FNL & 680' FWL

SECTION 21, BLOCK 53, UNIVERSITY LAND SURVEY



This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us. This plat does not in any way represent a "Boundary Survey", and does not comply with current T&P.L.E. Minimum Standards of Procedures for Boundary Surveys.

Operator **XOG OPERATING, LLC**

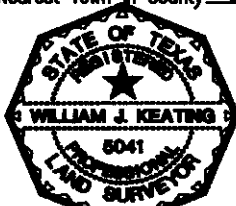
Date Staked **AUGUST 17, 2011**

Lease Name & Well No. **UNIV. SCHLEICHER 21 #1**

Ground Elev. **2571'**

Topography & Vegetation **NATURAL MESQUITE PASTURE**

Nearest Town in County **±23.0 MILES NORTHWEST OF EL DORADO, TEXAS**



Invoice #  
**LO UNIV SCHLEICHER21-1**  
**B.S.K./487NW**

## CERTIFICATION:

I, William J. Keating, a Registered Professional Land Surveyor, and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein. This plat is for Texas Railroad Commission permitting only.

Texas Reg. No.

**5041**