

ORIGINAL

SIDE ONE

CONFIDENTIAL

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

API NO. 15- 163-23,131  
County Rooks  
SE SE NW Sec. 26 Twp. 7S Rge. 17 East West  
2970 Ft. North from Southeast Corner of Section  
2970 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)  
Lease Name Reed Well # 2  
Field Name Stockton  
Producing Formation N/A  
Elevation: Ground 1765 KB 1770  
Total Depth 3115 PBDT N/A

Operator: License # 5140  
Name: FRONTIER OIL COMPANY  
Address 125 N. Market, Ste. 1720  
City/State/Zip Wichita, KS 67202  
Purchaser: N/A  
Operator Contact Person: Jean Angle  
Phone (316) 263-1201  
Contractor: Name: RED TIGER DRILLING COMPANY  
License: 5302  
Wellsite Geologist: Dick Parker

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  Temp. Abd.  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply, etc.)

If OWO: old well info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
1-6-91 1-15-91 1-15-91  
Spud Date Date Reached TD Completion Date

5280  
4950  
4620  
4290  
3960  
3630  
3300  
2970  
2640  
2310  
1980  
1650  
1320  
990  
660  
330

Amount of Surface Pipe Set and Cemented at 1113 Feet  
Multiple Stage Cementing Collar Used? Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Jean Angle  
Title Agent Date 2-4-91

Subscribed and sworn to before me this 4th day of February, 19 91.  
Notary Public D'Ann Brennan  
Date Commission Expires 2-10-94  
Notary Public STATE OF KANSAS  
My Appl. Exp. \_\_\_\_\_

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Drillers Timelog Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other (Specify)

# CONFIDENTIAL

SIDE TWO

Operator Name FRONTIER OIL COMPANY Lease Name Reed Well # 2  
 Sec. 26 Twp. 7S Rge. 17 County Rooks  
 East  West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets.)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)

Name	Formation Description	
	Top	Bottom
Anhydrite	1105	+665
Howard	2551	-781
Topeka	2621	-851
Heebner	2832	-1062
Toronto	2856	-1086
Lansing/KS City	2876	-1106
Base Kansas City	3098	-1328
RTD	3115	-1345

DST #1 (2638-2658) 60-30-60-30. Rec. 10' MCO, 65' MSW. IF 16-35, FF 33-49, ISIP 322, FSIP 479.  
 DST #2 (2776-2820) 60-30-60-30. Rec. 1' O, 80' MSW, IF 33-49, FF 58-66, ISIP 140, FSIP 98.  
 DST #3 (2886-2968) 30-30-30-30. Rec. 5' M w/few spks O. IF & FF 49-49, ISIP 289, FSIP 280.

CASING RECORD  New  Used  
 Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Conductor	17 1/2"	13 3/8"	40#	101	60-40POZ	100	-0-
Surface	12 1/4"	8 5/8"	23#	1113	60-40POZ	425	3%cc, 2%gel

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
N/A			

TUBING RECORD Size Set At Packer At Liner Run  Yes  No  
 N/A

Date of First Production N/A Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: N/A METHOD OF COMPLETION Production Interval  
 Vented  Sold  Used on Lease  Open Hole  Perforation  Dually Completed  Commingled  
 (If vented, submit ACO-18.)  Other (Specify) \_\_\_\_\_

15-163-23131-00-00

SIDE TWO (Page Two)

ORIGINAL

ACO-1 WELL HISTORY

OPERATOR FRONTIER OIL COMPANY

LEASE NAME Reed

# 2 SEC. 26 TWP. 7 RGE. 17W

FILL IN WELL LOG AS REQUIRED:

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
<p>DST #4 (2968-2992) 60-30-60-30. Rec. 190' MSW w/few spks 0. IF 16-33, FF 68-82, ISIP 82, FSIP 91</p>				
<p>DST #5 (3025-3115) 30-30-30-30. Rec. 3'M, IF &amp; FF 49-49, ISIP 82, FSIP 173.</p>				

CONFIDENTIAL

RECEIVED  
STATE OF OREGON COMMISSION

FEB 6 1991

CONFIDENTIAL

Phone 13-483-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

**ORIGINAL**

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

GENERAL TERMS AND CONDITIONS

**ALLIED CEMENTING CO., INC.** No. 9532  
 Home Office P. O. Box 31 Russell, Kansas 67665

*New* This contract is made this 26th day of February 1991 between the undersigned and the undersigned, the terms of which are as follows:

Date: *1-8-90* Sec: *26* Twp: *7* Range: *17* Called Our: *7:00 AM* Location: *Stockton #125w* Job Start: *9:30 AM* Finish: *2 PM*  
 Lease: *Reed* Well No.: *2* Location: *Stockton #125w* County: *Roooks* State: *Ks*

Contractor: *Red Tiger #4* Owner: *SANE*

Type Job: *Long Surface* You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size: *12 1/4* T.D.: *1115*  
 Csg.: *8 7/8* Depth: *1113*  
 Tbg. Size: \_\_\_\_\_ Depth: \_\_\_\_\_  
 Drill Pipe: \_\_\_\_\_ Depth: \_\_\_\_\_  
 Tool: \_\_\_\_\_ Depth: \_\_\_\_\_  
 Cement Left in Csg.: *10-15* Shoe Joint: \_\_\_\_\_  
 Press Max.: \_\_\_\_\_ Minimum: \_\_\_\_\_  
 Meas Line: \_\_\_\_\_ Displace: \_\_\_\_\_  
 Perf.: \_\_\_\_\_

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. \_\_\_\_\_  
 X *Walter J. Bell*

Amount Ordered: *425.00 3% CC 2% gel*

Consisting of

Common	<i>235 @ 525</i>	<i>133875</i>
Poz. Mix	<i>170 @ 225</i>	<i>38250</i>
Gel	<i>7 @ N/C</i>	<i>N/C</i>
Chloride	<i>12 @ 20.00</i>	<i>240.00</i>
Quickset		
Sales Tax		
Handling	<i>@ 1.00</i>	<i>425.00</i>
Mileage	<i>48/5k/MIE</i>	<i>323.00</i>
Sub Total		
Total		<i>2709.25</i>

DEPTH of Job

Reference:	<i>Dump trk dly</i>	<i>475.00</i>
	<i>2.00 per mile</i>	<i>38.00</i>
	<i>Solid 88 Rubber plug</i>	<i>73.00</i>
Sub Total		
Tax		
Total		<i>586.00</i>

Remarks: *Cement Rid C. r.*

FEB 6 1991

Phone 313-483-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. No. 9641

Home Office P. O. Box 31 Russell, Kansas 67665

15163-23131-0000  
 New  
 GENERAL TARIFF AND CONDITIONS

Date	1-6-91	Sec.	26	Twp.	7 S	Range	17 W	Called Out	12:15 P.M.	On Location	3:15 P.M.	Job Start	8:35 P.M.	Finish	9:00 P.M.
Lease	Reed	Well No.	2	Location	Stockton 4E 1/2 S E 1/4 5 1/4 NW			County	Rooks	State	Ks.				

Contractor Red Tiger Drilling Co. Rig #5

Type Job Set Conductor Pipe

Hole Size	17 1/2"	T.D.	102'
Csg.	13 3/8"	Depth	101'
Tbg. Size		Depth	
Drill Pipe		Depth	
Tool		Depth	
Cement Left in Csg.	7'	Shoe Joint	
Press Max.		Minimum	
Meas Line		Displace	X

Perf. EQUIPMENT

No.	Cement	
Pumptrk 191	Helper	Gary H. Wayne Mc
No.	Cement	
Pumptrk	Helper	
No.	Driver	Glen C.
Bulktrk #212	Driver	

DEPTH of Job		
Reference #1	Pumptruck-conductor	380.00
#13	mileage @ 2.00/mi.	44.00
	Sub Total	424.00
	Tax	
	Total	

Remarks: Cement Circulated.

Owner Same

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Frontier Oil Company

Street 1437 N. Franklin

City Russell, State Ks. 67665

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. X Walter & Obent

Amount Ordered 100 sks @ 1/4 Quick Set

Consisting of

Common	60 sks @ 2.25/sk	315.00
Poz. Mix	40 sks @ 2.25/sk	90.00
Chloride		
Quickset	5 units @ 26.00/unit	130.00

Handling @ 1.00/sk (100 sks) 100.00

Mileage @ 0.44/sk mi (22 mi) 88.00

Sub Total 723.00

Total

Floating Equipment Thanks

FEB 6 1991

Phone 3-463-2627, Russell, Kansas

Phone 316-793-5861, Great Bend, Kansas

15163-23151-0000

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

**ORIGINAL** *New* **ALLIED CEMENTING CO., INC.** No. 9651

Home Office P. O. Box 31 Russell, Kansas 67665

Date	1-15-9	Sec.	26	Twp.	7 <sup>s</sup>	Range	17 <sup>w</sup>	Called Out	11:45 A.M.	On Location	2:15 P.M.	Job Start	3:00 P.M.	Finish	5:00 P.M.	
Lease	Reed	Well No.	2	Location				Stockton 4E 1/2 S 1E 1/4 S 3/4 NW	County	Rooks	State	Ks.				
Contractor	Red Tiger Drilling Co.				Rig #5				Owner							Same
Type Job	Plug															
Hole Size	7 7/8"			T.D.		3115'										
Csg.	8 5/8"			Depth		1113										
Conductor	8 5/8"			Depth		101										
Log Size	13 3/8"			Depth												
Drill Pipe				Depth												
Tool				Depth												
Cement Left in Csg.				Shoe Joint												
Press Max.				Minimum												
Meas Line				Displace												
Perf.																

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Frontier Oil Company  
 Street 1437 N. Franklin  
 City Russell State Ks. 67665

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. \_\_\_\_\_  
 X. Lud J. Arnold  
**CEMENT**

Amount Ordered 190 sks 60/40 poz 66 gel

Consisting of		
Common	114 sks @ 5.25/sk.	\$ 598.50
Poz. Mix	76 sks @ 2.25/sk.	171.00
Gel.	7 sks @ 6.75/sk (Used 10 sks)	47.25
Chloride		
Quickset		
Sales Tax		95.00
Handling	2.00/sk (190 sks)	190.00
Mileage	2.00/sk./mi. (22 mi.)	167.20
Sub Total		\$ 1173.95
Total		

**EQUIPMENT**

No.	Cementer	
Pumptrk 191	Helper	Gary H. Wayne Mc.
No.	Cementer	
Pumptrk	Helper	
	Driver	Jim D.
Bulktrk #155	Driver	

DEPTH of Job		
Reference #	Description	Cost
# 8	Pumptruck - plug	380.00
# 13	mileage @ 2.00/mi.	44.00
	1- 8 7/8" dry hole plug	21.00
Sub Total		445.00
Tax		
Total		

Remarks:  
 1<sup>st</sup> plug @ 1125' w/25 sks.  
 2<sup>nd</sup> plug @ 700' w/100 sks.  
 3<sup>rd</sup> plug @ 300' w/40 sks.  
 8 7/8" plug @ 40' w/10 sks to surface  
 Plugged rat hole w/15 sks.

Floating Equipment Thanks  
 FEB 6 1991