

ORIGINAL

15-109-20483-00-00

SIDE ONE

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

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 CO.

License: 5302

Wellsite Geologist: Joel Alberts

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

Gas  Inj  Delayed Comp.

Dry  Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:

Mud Rotary  Air Rotary  Cable

6-8-90 6-18-90 6-18-90

Spud Date Date Reached TD Completion Date

API NO. 15- 109-20,483-00-00

County Logan

C NW NW Sec. 18 Twp. 11S Rge. 33  East  West

4620  Ft. North from Southeast Corner of Section

4620  Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

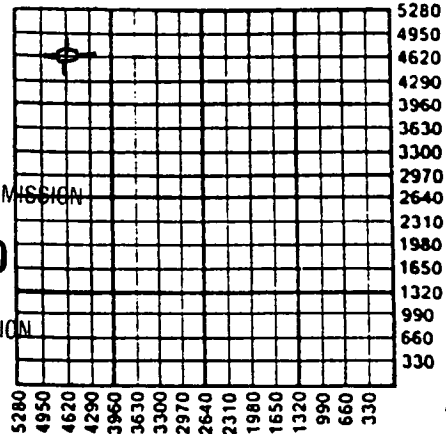
Lease Name Kiechel  Well # 1

Field Name Cook SW

Producing Formation N/A

Elevation: Ground 3183 KB 3188

Total Depth 4422 PBTD N/A



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Wichita, Kansas

Amount of Surface Pipe Set and Cemented at 269 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.

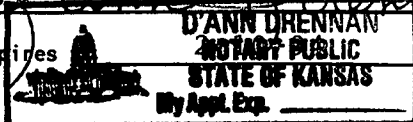
Signature Jean Angle

Title Agent Date 7-2-90

Subscribed and sworn to before me this 2nd day of July, 1990.

Notary Public D'Ann Orennan

Date Commission Expires \_\_\_\_\_



**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)

Operator Name FRONTIER OIL COMPANY Lease Name Kiechel Well # 1  
 Sec. 18 Twp. 11S Rge. 33  East County Logan  
 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.)  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Submit Copy.)	<p style="text-align: center;"><b>Formation Description</b></p> <input type="checkbox"/> Log <input checked="" type="checkbox"/> Sample <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Bottom</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>2676</td> <td>+512</td> </tr> <tr> <td>Heebner</td> <td>4082</td> <td>-894</td> </tr> <tr> <td>Toronto</td> <td>4106</td> <td>-918</td> </tr> <tr> <td>Lansing-KS City</td> <td>4129</td> <td>-941</td> </tr> <tr> <td>Stark Shale</td> <td>4350</td> <td>-1162</td> </tr> <tr> <td>Base of KS City</td> <td>4421</td> <td>-1233</td> </tr> <tr> <td>RTD</td> <td>4422</td> <td>-1234</td> </tr> </tbody> </table>	Name	Top	Bottom	Anhydrite	2676	+512	Heebner	4082	-894	Toronto	4106	-918	Lansing-KS City	4129	-941	Stark Shale	4350	-1162	Base of KS City	4421	-1233	RTD	4422	-1234
Name	Top	Bottom																							
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Stark Shale	4350	-1162																							
Base of KS City	4421	-1233																							
RTD	4422	-1234																							

DST #1 (4080-4135) 30-60-30-60. Rec. 1230' MW  
 IF 100-388, FF 444-588, ISIP 1207, FSIP 1185  
 DST #2 (4140-4175) 45-45-45-45. Rec. 200' WM w/oil  
 spots. IF 33-77, FF 88-122, ISIP 1185, FSIP 1140  
 DST #3 (4322-4355) 30-45-30-45. Rec 5' M.  
 IF 33-33, FF 33-33, ISIP & FSIP 33.

cont'd.

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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
Surface	12 1/4"	8 5/8"	20#	269'	60-40 POZ	175sx	2% gel, 3% cc
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used) Depth			
N/A							
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
N/A	Size	Set At	Packer At				
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)						
N/A							
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		

Disposition of Gas: N/A  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

**METHOD OF COMPLETION**

Open Hole  Perforation  Dually Completed  Commingled  
 Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

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SIDE TWO (Page Two)

ACO-1 WELL HISTORY

OPERATOR FRONTIER OIL COMPANY LEASE NAME Kiechel #1 SEC. 18 TWP. 11S RGE. 33W

**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
---------------------------------------	-----	--------	------	-------

DST #4 (4346-4390) 30-45-30-45. Rec. 10' SOCM. IF 33-33, FF 44-44, ISIP 953 FSIP 643				
--	--	--	--	--

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 STATE CORPORATION COMMISSION  
 7-5-1990  
 JUL 5 1990  
 CONSERVATION DIVISION  
 Wichita, Kansas

Phone 913-483-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

15-109-20483-00-00

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

New

# ALLIED CEMENTING CO., INC. No. 9803

Home Office P. O. Box 31

Russell, Kansas 67665

Date	6-8-90	Sec.	18	Twp.	11	Range	33	Called Out		On Location	1:00 PM	Job Start		Finish	2:00 PM
Lease	Kieschel	Well No.		Location	Monument 1W-S.S.			County	Logan	State	Kan				

Contractor	Red Tiger #1		
Type Job	Surface		
Hole Size	12 1/4	T.D.	272'
Csg.	8 5/8	Depth	269'
Tbg. Size		Depth	
Drill Pipe		Depth	
Tool		Depth	
Cement Left in Csg.	15'	Shoe Joint	
Press Max.		Minimum	
Meas Line	✓	Displace	ATX
Perf.			

### EQUIPMENT

Pumptrk	No.	Cementer	Walt
	127	Helper	
Pumptrk	No.	Cementer	John
		Helper	
Bulktrk	96	Driver	
		Driver	

### DEPTH of Job

Reference:	Pumptruck	360 <sup>00</sup>
	Plus	40 <sup>00</sup>
	1.00 per mile	10 <sup>00</sup>
	Sub Total	
	Tax	
	Total	410 <sup>00</sup>

Remarks:

Cement D.O. Care

Owner  
 To Allied Cementing Co., Inc.  
 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 Co.  
 Street 1437 N. Franklin  
 City Russell State Kansas

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

Purchase Order No.  
 X Wm J. Lyles  
**CEMENT**

Amount Ordered	175 @ 40¢, 3% CC - 2% Gel		
Consisting of			
Common	105	SKS @ 6 <sup>00</sup>	630 <sup>00</sup>
Poz. Mix	70	SKS @ 2 <sup>25</sup>	157 <sup>50</sup>
Gel.	3	SKS @ N/C	N/C
Chloride	5	SKS @ 20 <sup>00</sup>	100 <sup>00</sup>
Quickset			

Handling	90¢	157 <sup>50</sup>
Mileage	3¢	52 <sup>50</sup>
	Sub Total	
	Total	1097 <sup>50</sup>

Floating Equipment  
 RECEIVED  
 STATE CORPORATION COMMISSION  
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 Wichita, Kansas

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 Phone 316-793-5861, Great Bend, Kansas

15-109-20483-00-00

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

# ALLIED CEMENTING CO., INC. No. 9934

Home Office P. O. Box 31

Russell, Kansas 67665

*New*

Date	6-18-90	Sec.	18	Twp.	11	Range	33 W	Called Out		On Location		Job Start	3:00 AM	Finish	7:00 AM		
Lease	Keichel	Well No.	1	Location				Monument 1W 4S	County	Logan	State	Ks					
Contractor	Red Tiger																
Type Job	plug																
Hole Size	7 7/8		T.D.													4422	
Csg.	Depth																
Tbg. Size	Depth																
Drill Pipe	Depth																
Tool	Depth																
Cement Left in Csg.	Shoe Joint																
Press Max.	Minimum																
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Perf.																	

**Owner**  
 To Allied Cementing Co., Inc.  
 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** Kan 67665

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

**Purchase Order No.**  
 X *Wm J. Cuyres*

**CEMENT**

Amount Ordered	190 <sup>00</sup> / <sub>40</sub> 6 3/4 gal 3 1/2 cc		
Consisting of			
Common	114	SKs @ 6.00	684 <sup>00</sup>
Poz. Mix	76	SKs @ 2.40	182 <sup>40</sup>
Gel.	7	SKs @ 6.75	47 <sup>25</sup>
Chloride	5	SKs @ 20.00	100 <sup>00</sup>
Quickset			

Handling	90¢	171 <sup>00</sup>
Mileage	3¢	57 <sup>00</sup>
Sub Total		
Total		1,241 <sup>65</sup>

**EQUIPMENT**

Pumptrk	No.	Cementer	<i>Dave Gerald</i>
	153	Helper	
Pumptrk	No.	Cementer	<i>Ed</i>
	146	Helper	
Bulktrk		Driver	
Bulktrk		Driver	

**DEPTH of Job**

Reference:	Dump trk chg	360 <sup>00</sup>
	100 <sup>00</sup> per mile	10 <sup>00</sup>
	plug	20 <sup>00</sup>
Sub Total		
Tax		
Total		390 <sup>00</sup>

**Remarks:**  
 25 @ 2700  
 100 @ 1775  
 40 @ 325  
 10 @ 40 wk plug  
 15 Rodside

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