

ORIGINAL

SIDE ONE

10/10/89  
OCT 12 1989  
FROM CONFIDENTIAL

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

Operator: License # 5140  
Name Frontier Oil Company  
Address 125 N. Market, Ste. 1720  
Wichita, Kansas 67202  
City/State/Zip  
Purchaser National Cooperative Refinery Assn.  
McPherson, Kansas

Operator Contact Person Jean Angle  
Phone 316-263-1201

Contractor: License # 5302  
Name Red Tiger Drilling Co

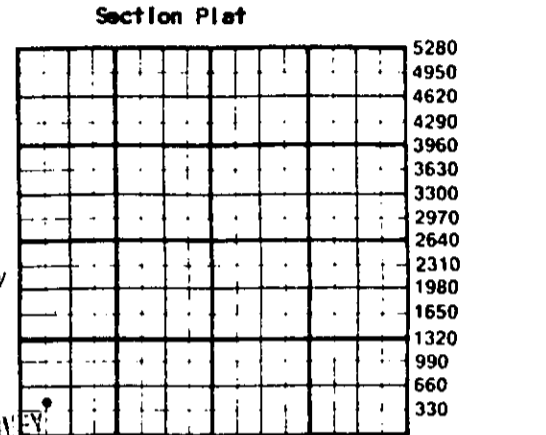
Wellsite Geologist Richard D. Parker  
Phone 913-483-5348

Designate Type of Completion  
X New Well Re-Entry Workover  
X Oil SWD Temp Abandonment  
Gas Inj Delayed Completion  
Dry Other (Core, Water Supply etc.)  
If ONWO: old well info as follows:  
Operator  
Well Name  
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:  
X Mud Rotary Air Rotary Cable  
7-1-89 7-15-89 9-9-89  
Spud Date Date Reached TD Completion Date  
4800 4731  
Total Depth PBTD  
Amount of Surface Pipe Set and Cemented at 345' feet  
Multiple Stage Cementing Collar Used? Yes X No  
If yes, show depth set feet  
If alternate 2 completion, cement circulated from feet depth to w/ SX cmt  
Cement Company Name  
Invoice #

API No. 15-109-20,475-0000  
County Logan  
100' N East  
SW SW SW Sec 17 Twp 12 Rge 33W X West  
430 Ft North from Southeast Corner of Section  
4950 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)  
Lease Name Clark Well # 1-A  
Field Name Janice South Ext.  
Producing Formation Johnson, Lansing-Kansas City  
Elevation: Ground 3151 3156 KB



WATER SUPPLY INFORMATION  
Disposition of Produced Water: Disposal  
Docket # Repressuring

Questions on this portion of the ACO-1 call:  
Water Resources Board (913) 296-3717  
Source of Water: 89-290  
Division of Water Resources Permit #  
X Groundwater 1900 Ft North from Southeast Corner  
(Well) 600 Ft West from Southeast Corner of  
Sec 6 Twp 12 Rge 33W X West  
Surface Water Ft North from Southeast Corner  
(Stream, pond etc) Ft West from Southeast Corner  
Sec Twp Rge East West  
Other (explain)  
(purchased from city, R.W.D. #)

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. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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 Oct 5, 1989

Subscribed and sworn to before me this 5th day of October 1989  
Notary Public D'Anne Brennan  
Date Commission Expires 2-10-90



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

Operator Name Frontier Oil Company Lease Name Clark "A" Well # 1

Sec. 17 Twp. 12 Rge. 33W  East  West County Logan **RELEASED**

**CONFIDENTIAL**

WELL LOG

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	Formation Description <input type="checkbox"/> Log <input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Cores Taken	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
DST #1 (4128-4158) 30-30-30-30 Rec. 10' M IF & FF 23-23 ISIP 315 FSIP 247			Name Top Bottom Anhydrite 2620 + 536 Topeka 3814 - 658 Heebner 4040 - 884 Toronto 4063 - 907 Lansing-Kansas City 4082 - 926 Base of Kansas City 4377 -1221 Marmaton 4414 -1258 Pawnee 4507 -1351 Fort Scott 4562 -1406 Cherokee Shale 4588 -1432 Johnson 4642 -1486 Morrow Sand 4706 -1550 Mississippian 4712 -1556 RTD 4800 -1644
DST #2 (4158-4180) 30-30-30 Rec. 80' WM w/few spks O IF 23-35 FF 35-47 ISIP 1225 FSIP 1254			DST #9 (4658-4682) 60-45-60-45 Rec. 600' GIP, 130' SGC0, 110' G&MCO IF 23-70 FF 94-106 ISIP 722 FSIP 626
DST #3 (4218-61) 30-30-30 Rec. 10' M w/good oil show. IF & FF 23-23 ISIP 818 FSIP 698			
DST #4 (4258-88) 30-30-30-30 Rec. 5' M IF & FF 11-11 ISIP & FSIP 23			
DST #5 (4280-4320) 60-30-60-30 Rec. 330' GIP, 120' SGC0, 30' SOCM IF 23-47 FF 58-70 ISIP 1137 FSIP 1091			
DST #6 (4312-60) 30-30-30-30 Rec. 5' M IF & FF 11-11 ISIP 176 FSIP 117			
DST #7 (4580-4639) 30-30-30-30 Rec. 10' M IF & FF 23-23 ISIP & FSIP 35			
DST #8 (4580-4658) 30-30-30-30 Rec. 5' M IF & FF 23-23 ISIP 70 FSIP 47			

CASING RECORD <input 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# (new)	345	60-40 poz	190	2% gel, 3% CC
Production	7-7/8"	4 1/2"	10 1/2# (used)	4790	Com	225	10% salt
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
4	4672-76			250 gal. 15% Mud Acid		4672-76	
				150 gal. 15% Reg. Acid		4672-76	
2	4290-94			250 gal. Reg. Acid		4290-94	
				750 gal NEA Acid		4290-94	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Size 2-3/8"		Set At 4719		Packer at N/A		N/A	
Date of First Production		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
9-9-89							
Estimated Production Per 24 Hours		Oil 20 BOPD	Gas N/A	Water 20BWPD	Gas-Oil Ratio N/A	Gravity 36	
		Bbls	MCF	Bbls	CFPB		

METHOD OF COMPLETION

Disposition of gas:  Vented  Sold  Used on Lease

Open Hole  Perforation  Other (Specify) .....

Dually Completed  Commingled

Production Interval: 4672-76, 4290-94

ORIGINAL

15-109-20475-0000

# ALLIED CEMENTING CO., INC. No. 7947

Home Office P. O. Box 91

Russell, Kansas 67665

New

Date	7-16-89	Sec.	17	Twp.	22 <sup>s</sup>	Range	33 <sup>w</sup>	Called Out		On Location		Job Start	3:00 AM	Finish	3:30 AM
Lease	Clark	Well No.	1 A	Location	Monument 75 ES	County	Logan	State	KS						
Contractor	Red Tiger #4														
Type Job	Production String														
Hole Size	7 7/8	T.D.	4800												
Csg.	4 1/2	Depth	4792												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.		Shoe Joint	43												
Press Max.		Minimum													
Meas Line		Display	RELEASED												
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 Co  
**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 *[Signature]*

### CEMENT

**Amount Ordered** 225 com 10% salt

<b>Consisting of</b>			
Common	225	SKS @ 6.00	1,350 <sup>00</sup>
Poz. Mix			
Gel.			
Chloride			
Quickset			
Salt	21	SKS @ 4.75	99 <sup>75</sup>

Handling	90¢	202 <sup>50</sup>
Mileage	3¢	108 <sup>00</sup>
16 mile		
<b>Sub Total</b>		
<b>Total</b>		4,760 <sup>25</sup>

### EQUIPMENT

FROM CONFIDENTIAL

No.	Cementer	<i>Dave</i>
Pumptrk 153	Helper	<i>Beard</i>
No.	Cementer	
Pumptrk	Helper	
	Driver	<i>Ed</i>
Bulktrk 160	Driver	

### DEPTH of Job

Reference:	PUMP TRK CHG	838 <sup>00</sup>
	100 Per mile	16 <sup>00</sup>
	4 1/2 Rubber Plug	31 <sup>00</sup>
	<b>Sub Total</b>	
	<b>Tax</b>	
	<b>Total</b>	885 <sup>00</sup>

**Remarks:** plug Rotholcut 7556  
 Float Head

Floating Equipment

STATE CONFIRMATION DIVISION  
 RECEIVED  
 OCT 10 1989  
 CONSERVATION DIVISION  
 Wichita, Kansas

KANSAS GEOLOGICAL SURVEY

ORIGINAL

15109.20475.0000

# ALLIED CEMENTING CO., INC. NO 7947

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

New

Date	7-16-89	Sec.	17	Twp.	22 <sup>5</sup>	Range	33 <sup>W</sup>	Called Out		On Location		Job Start	3:00 AM	Finish	3:30 AM	
Lease	Clark	Well No.	1A	Location				Monument 75 ES	County	Logan	State	Ks				
Contractor	Red Tiger #4											Owner				
Type Job	Production String											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.				
Hole Size	7 7/8		T.D.		4800											
Csg.	4 1/2		Depth		4792											
Tbg. Size			Depth													
Drill Pipe			Depth													
Tool			Depth													
Cement Left in Csg.			Shoe Joint		43											
Press Max.			Minimum		UNRATED											
Meas Line			Displace.													
Perf.																

Charge To: Frontier Oil Co  
 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. [Signature]  
 X [Signature]  
**CEMENT**

EQUIPMENT FROM CONFIDENTIAL

No.	Cementer	Dave
Pumptrk 153	Helper	Beard
No.	Cementer	
Pumptrk	Helper	
	Driver	Ed
Bulktrk 160	Driver	

Amount Ordered	225 com 10% salt		
Consisting of			
Common	225	skts @ 6.00	1,350 <sup>00</sup>
Poz. Mix			
Gel.			
Chloride			
Quickset			
Salt	21	skts @ 4.75	99 <sup>75</sup>
Sales Tax			
Handling	90¢		202 <sup>50</sup>
Mileage	3¢		108 <sup>00</sup>
16 miles			
Sub Total			
Total			4,760 <sup>25</sup>

DEPTH of Job		
Reference:	PUMP TRK CHG	838 <sup>00</sup>
	100 per mile	16 <sup>00</sup>
	4" Rubber Plug	31 <sup>00</sup>
	Sub Total	
	Tax	
	Total	885 <sup>00</sup>

Remarks: plug Rotholcut 7556  
 Float Head

Floating Equipment  
 STATE CREDITATION  
 REGISTERED  
 OCT 10 1989  
 CONSERVATION DIVISION  
 Wichita, Kansas

# ALLIED CEMENTING CO., INC.

NO 7921

Home Office P. O. Box 31

Russell, Kansas 67665

ORIGINAL

New

Date	7-1-89	Sec.	17	Twp.	12s	Range	33w	Called Out	3:30PM	On Location	6:30PM	Job Start	9:15PM	Finish	9:45PM
Lease	CLARK	Well No.	#1-A	Location	MONUMENT 10 1/2 S 1/4 E			County	Logan	State	Kansas				
Contractor	Red Tiger Drllg. Rig. #5														
Type Job	LONG SURFACE														
Hole Size	12 1/4	T.D.	348												
Csg.	8 5/8	Depth	344												
Tbg. Size		Depth	RELEASED												
Drill Pipe		Depth													
Tool		Depth	JAN 14 1991												
Cement Left in Csg.	15'	Shot Joint	CONFIDENTIAL												
Press Max.		Minimum													
Meas Line	✓	Displace	21 1/4 BBL												
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 *Frederick J. Ruedel Jr.*  
CEMENT

Amount Ordered: 190 SK 1/40 2% gel 3% cc

Consisting of			
Common	114	6.00	684.00
Poz. Mix	76	2.40	182.40
Gel.	3	6.75	20.25
Chloride	6	20.00	120.00
Quickset			

Handling	.90 PER SK	171.00
Mileage	.03 PER TON Mile	91.20
Sub Total		1268.85
Total		

### EQUIPMENT

Pumptrk #177	No.	Cementer	<i>Shane Will</i>
	No.	Helper	
Pumptrk #22	No.	Cementer	<i>Joel</i>
	No.	Helper	
Bulktrk #22	No.	Driver	
Bulktrk #22	No.	Driver	

DEPTH of Job			
Reference:	Pump TRUCK Chrg.	360.00	
	1.00 per mile	16.00	
	Sub Total	71.00	
1-85/8	ROBBER Plug	Tax	
		Total	447.00

Remarks:  
Cement CIRCULATED

Floating Equipment

*Thanks*

RECEIVED  
STATE CORPORATION COMMISSION  
OCT 10 1989  
CONSERVATION DIVISION  
Wichita, Kansas

# ALLIED CEMENTING CO., INC. NO. 7921

Home Office P. O. Box 31

Russell, Kansas 67665

New

ORIGINAL

Date	7-1-89	Sec.	17	Twp.	12S	Range	33W	Called Out	3:30PM	On Location	6:30PM	Job Start	9:15PM	Finish	9:45PM	
Lease	CLARK	Well No.	#1-A		Location			MONUMENT 1/2 S 1/4 E		County	Logan		State	Kansas		
Contractor	Red Tiger Drbg. Rig #5															
Type Job	Long Surface															
Hole Size	12 1/4					T.D.	348									
Csg.	8 5/8					Depth	344									
Tbg. Size						Depth										
Drill Pipe						Depth										
Tool						Depth										
Cement Left in Csg.	15'					Shoe Joint										
Press Max.						Minimum										
Meas Line	✓					Displace	21 1/4 <sup>35L</sup>									
Perf.																

EQUIPMENT																
Pumptrk	#177	No.	Cementer													
			Helper	<i>[Signature]</i>												
Pumptrk			Cementer													
			Helper													
Bulktrk	#22		Driver	<i>[Signature]</i>												
Bulktrk			Driver													

DEPTH of Job		
Reference:	Pump TRUCK Chrg.	360.00
	1.00 per mile	16.00
		71.00
	1-8 5/8 Rubber Plug	447.00
		Total

Remarks:  
Cement Circulated

Owner  
To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cement 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 *[Signature]*  
**CEMENT**

Amount Ordered	190 SK <sup>69</sup> / <sub>40</sub> 2% gel 3% cc		
Consisting of			
Common	114	6.00	684.00
Poz. Mix	76	2.40	182.40
Gel.	3	6.75	20.25
Chloride	6	20.00	120.00
Quickset			

Handling	.90 PER SK	171.00
Mileage	.03 PER TAX Mile	91.20
	Sub Total	1268.85
	Total	

Floating Equipment

RECEIVED  
OCT 10 1989  
CONSERVATION DIVISION  
Wichita, Kansas

*[Signature]*

# ALLIED CEMENTING CO., INC. NO 7921

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	7-1-89	Sec.	17	Twp.	12s	Range	33w	Called Out	3:30PM	On Location	6:30PM	Job Start	9:15PM	Finish	9:45PM
Lease	CLARK	Well No.	#1-A	Location	MONUMENT	1/2 S 1/4 E		County	LOGAN	State	KANSAS				

Contractor **Red Tiger Drllg. Rig #5**

Type Job **Long Surface**

Hole Size **12 1/4** T.D. **348**

Csg. **8 5/8** Depth **344**

Tbg. Size \_\_\_\_\_ Depth \_\_\_\_\_

Drill Pipe \_\_\_\_\_ Depth \_\_\_\_\_

Tool \_\_\_\_\_ Depth \_\_\_\_\_

Cement Left in Csg. **15'** Shoe Joint \_\_\_\_\_

Press Max. \_\_\_\_\_ FROM CURVE Minimum \_\_\_\_\_

Meas Line **✓** Displace **21 1/4 85L**

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 **Fred J. Ruedger Jr.**

**CEMENT**

Perf. \_\_\_\_\_

**EQUIPMENT**

Pumptrk #177	No. _____	Cementer	<i>[Signature]</i>
		Helper	<i>[Signature]</i>
Pumptrk #22	No. _____	Cementer	
		Helper	
Bulktrk #22		Driver	<i>[Signature]</i>
Bulktrk #22		Driver	

Amount Ordered **190 SK 69/40 2% gel 3% cc**

Consisting of

Common	114	6.00	684.00
Poz. Mix	76	2.40	182.40
Gel.	3	6.25	20.25
Chloride	6	20.00	120.00
Quickset			

DEPTH of Job

Reference:	Pump TRUCK Chrg.	360.00	
	1.00 per mile	16.00	
	Sub Total	71.00	
	1-85/8 RUBBER Plug	Tax	
		Total	447.00

Handling	.90 PER SK	171.00
Mileage	.03 PER TAX Mile	91.20
	Sub Total	1268.85
	Total	

Remarks:

**Cement Circulated**

RECEIVED

STATE COMMISSION

001 10 1989

CONSERVATION DIVISION

Wichita, Kansas

*Thanks*

ORIGINAL

AM 11 3 1989  
Time Month Day Year  
Called-In

*Copied*  
APT

15-109-20,475 DEC 9 1989

Mr. DICK PARKER of FRONTIER OIL CO. FROM CONFIDENTIAL

Operator FRONTIER OIL CO. KCC # 5140

Address: 125 N. MARKET ST. #1720 Phone # ( )  
WICHITA, KS 67202

Lease Name CLARK Well # A-1  
Location <sup>100' N</sup> SWSWSW Sec. 17 Twp 12 Rge 33  
County LOGAN

10 3/4" 8 5/8" 345 S.P. cwc w/ 190 sk. cmt.

4 1/2" - 5 1/2" - 6" csg. set @ 4790 w/ 225 sk. cmt.

T.D. 4800 Elv. 3151 Gk. Anh. 2620 Dakota Base 1700

D.V. Tool@ Port Collar @ Perf. @ 1920 <sup>-2'</sup> Other

Total Amount of cement and Blend: 400 65/35, 10' PERL 14' CEMENT 75' CF COM. 37' CC

Did cement circulate? GOOD CIRCULATION THROUGHOUT CEMENTING PROCEDURE  
WITH CEMENT INTO 8 5/8' WITH DROP BACK TO 376'

Cement Company: ALLIED CMT. CO. RUSSELL

Ticket #

Who witnessed CARL GOODROW

Remarks: THIS WAS A NEW WELL AND ALT. 2 CEMENT JOBS; WORK WELL IF  
PERF. IN KIOWA SHALE IN THE AREA OF DEPTH OF 1800 TO 1925 WITH HIGHER  
GOOD CIRCULATION. THE ONLY PROBLEM IS WEIGHT OF CEMENT COLUMN  
CAUSES SOME DROP OF CEMENT FROM SURFACE DOWN AROUND 350' TO 400'

Carl Goodrow  
Signed



Drill Pit Letter 109-20,475-0000

NOTICE OF INTENTION TO DRILL

FORM MUST BE SIGNED ALL BLANKS MUST BE FILLED

Must be approved by the K.C.C. five (5) days prior to commencing well

Expected Spud Date 6 29 89 month day year

100' N OF SW SW SW Sec 17 Twp 12 S, Rg 33W East & West

Operator: License # 5140 Frontier Oil Company Address: 125 N. Market, Ste. 1720 Wichita, Kansas 67202 Contact Person: George A. Angle Phone: 316-263-1201

430 feet from South line of Section 4950 feet from East line of Section (Note: Locate well on Section Plat Below)

Contractor: License # 5302 Name: Red Tiger Drilling Co

County: Logan Lease Name: Clark Well #: 1-A Field Name:

Well Drilled For: Well Class: Type Equipment: X Oil Inj Infield X Mud Rotary Gas Storage X Pool Ext Air Rotary OMO Disposal Wildcat Cable Seismic # of Holes

Is this a Prorated Field? yes X no Target Formation(s): Lansing, Cherokee Nearest lease or unit boundary: 430 Ground Surface Elevation: 3151 GR feet MSL

If OMO: old well information as follows: Operator: Well Name: Comp. Date: Old Total Depth:

Domestic well within 330 feet: yes X no Municipal well within one mile: yes X no Depth to bottom of fresh water: 210 180 Depth to bottom of usable water: 1750 Surface Pipe by Alternate: 1 (X 2) Length of Surface Pipe Planned to be set: 320 Length of Conductor pipe required: N/A Projected Total Depth: 4700 Formation at Total Depth: Miss Water Source for Drilling Operations: well farm pond X other

OWR Permit #: N/A Will Cores Be Taken? yes X no If yes, proposed zone:

Directional, Deviated or Horizontal wellbore? yes X no If yes, total depth location:

spud 7-1-89 85/8" 320+

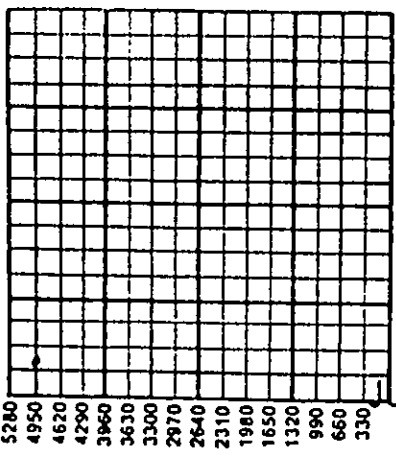
WTR. WTR well - headed wildo - Red Tiger

AFFIDAVIT

The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55-101, et. seq.

- 1. The appropriate district office shall be notified before setting surface pipe; 2. The minimum amount of surface pipe as specified above shall be set by circulating cement to the top; in all cases surface pipe shall be set through all unconsolidated materials plus a minimum of 20 feet into the underlying formation; 3. If the well is dry, a plugging proposal shall be submitted to the district office. An agreement between the operator and the district office on plug length and placement is necessary prior to plugging; 4. The appropriate district office will be notified before well is either plugged or production casing is cemented in; 5. If an Alternate II completion, production pipe shall be cemented from below any usable water to surface within 120 days of spud date. In all cases, notify district office prior to any cementing.

I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief. Date: 6-22-89 Signature of Operator or Agent: George A. Angle Title: Owner



5280 4950 4620 4290 3960 3630 3300 2970 2640 2310 1980 1650 1320 990 660 330 JUN 22 1989 JUN 23 1989 Hays, KS

FOR KCC USE: API # 15-109-20,475 Conductor pipe required NONE feet Minimum surface pipe required 200 feet per Alt. X(2) Approved by: DW C-22-89 EFFECTIVE DATE: 6-22-89 This authorization expires: 12-22-89 (This authorization void if drilling not started within 6 months of effective date.) Spud date: Agent:

- REMEMBER TO: File Drill Pit Application (form CDP-1) with Intent to Drill; File Completion Form ACO-1 within 120 days of spud date; File acreage attribution plat according to field proration orders; Notify appropriate district office 48 hours prior to workover or re-entry; Submit plugging report (CP-4) after plugging is completed; Obtain written approval before disposing or injecting salt water.



*11-2-89*

MIKE HAYDEN GOVERNOR  
KEITH R. MENLEY CHAIRMAN  
RICH KOWALEWSKI COMMISSIONER  
MARGALEE WRIGHT COMMISSIONER  
JUDITH MCCONNELL EXECUTIVE DIRECTOR  
FRANK A. CARO, JR. GENERAL COUNSEL

District # 4  
2301 E. 13th St.  
Hays, Ks. 67601  
(913) 628-1200

Kansas Corporation Commission

CONSERVATION DIVISION  
SHARI FEIST ALBRECHT, DIRECTOR  
200 Colorado Derby Bldg.  
202 W. 1st Street  
Wichita, KS 67202-1286  
(316) 263-3238

Frontier Oil Company  
125 N. Market Street #1720  
Wichita, KS 67202

#5140

October 3, 1989

*Judith Connolly*

The Kansas Corporation Commission issued an order on March 29, 1985, Docket #34,780C (C-1825) supplementing K.A.R. 82-3-106, which requires that Alternate II cementing be performed within 120 days of the well's spud date. This order specifically requires a blend of Portland Cement be used in second stage cementing. The cement is to be placed at a minimum of 50 feet below all usable water formations and then circulated to the surface. (50 feet below the base of the Dakota formation.)

Our records indicate you have only 30 or less days to complete the cementing on the long string on the below captioned well. This letter is to advise you of this requirement and your need to complete the second stage of your cementing on this well within the 120 days required. Your failure to meet this requirement can result in a fine up to \$5,000.00.

A. P. I.# 15-109-20,475

Spud Date: July 1, 1989

Legal Description: 100'N of SW SW SW Sec. 17-12s-33w Logan County

Lease Name: Clark A-1

Operator: Frontier Oil Co.

*Index 2620*

12:00

If you have completed the Alternate II or have plugged the above mentioned well, please call our office. Please insure the Affidavit of Completion (ACO-1) has been properly completed and submitted. If the ACO-1 is submitted after the due date, you will have to include (1) either a bond log or (2) the cement tickets and job log for proof of completion.

This letter is to ensure compliance and is being sent as a reminder to you. If you have any questions or need any more information, please contact: Marion Schmidt, the Alternate II coordinator at 1-913-628-1200. Please respond by November 1, 1989 on the above mentioned well.

Sincerely,

*Don Butcher*  
Don Butcher  
District Geologist

cc: File  
Marion Schmidt

*Big on land  
Wed 10/11  
Caro Dick  
Parker Aug  
Time to turn in  
Reg. mail*

*He already  
had a  
call from Steve J.A.*

Marion Schmidt  
Alternate II Coordinator  
1-913-628-1200

*1 W  
11-3-89  
11-10-89*

*11-3-89*



Kansas Corporation Commission

MIKE HAYDEN GOVERNOR  
KEITH R. HENLEY CHAIRMAN  
RICH KOWALEWSKI COMMISSIONER  
MARGALEE WRIGHT COMMISSIONER  
JUDITH McCONNELL EXECUTIVE DIRECTOR  
FRANK A. CARO, JR. GENERAL COUNSEL

District # 4  
2301 E. 13th St.  
Hays, Ks. 67601  
(913) 628-1200

CONSERVATION DIVISION  
SHARI FEIST ALBRECHT, DIRECTOR  
200 Colorado Derby Bldg.  
202 W. 1st Street  
Wichita, KS 67202-1286  
(316) 263-3238

Frontier Oil Company  
125 N. Market Street #1720  
Wichita, KS 67202

*Copy*  
#5140

November 06, 1989

The Kansas Corporation Commission issued an order on March 29, 1985, Docket #34,780C (C-1825) supplementing K.A.R. 82-3-106, which requires that Alternate II cementing be performed within 120 days of the well's spud date. This order specifically requires a blend of Portland Cement be used in second stage cementing. The cement is to be placed at a minimum of 50 feet below all usable water formations and then circulated to the surface. (50 feet below the base of the Dakota formation.)

Our records indicate your 120 days to properly complete your second stage cementing on the long string on the below captioned well has expired. This letter is to advise you of this requirement and your need to complete the second stage of your cementing on this well. You may, if you choose, plug this well. An extension has been granted on this well for Alternate II cementing until November 11, 1989.

A. P. I. # 15-109-20,475 Spud Date: July 01, 1989

Legal Description: 100'N of SW SW SW Sec.17-12s-33w Logan County

Lease Name: Clark #A-1

Operator: Frontier Oil Company

If you have completed the Alternate II or have plugged the above mentioned well, please call our office. Please insure that the Affidavit of Completion (ACO-1) has been properly completed and submitted. If you have not submitted an Affidavit of Completion (ACO-1), please do so. If the ACO-1 is submitted after the due date, you will have to include either (1) a bond log (2) or the cement tickets and job log for proof of completion.

Your cooperation in resolving this will be greatly appreciated. If you have any questions or need any more information, please contact Marion Schmidt, the Alternate II coordinator at 1-913-628-1200. Please respond by phone before November 10, 1989. This is your deadline to complete Alternate II or plug the well.

Sincerely,

*Don Butcher*  
Don Butcher  
District Geologist

*EX  
Nov 10-89*

REC-1000  
1000  
Marion Schmidt,  
Alternate II Coordinator  
1-913-628-1200

# GREAT GUNS

Correlation Gemme Reef Log

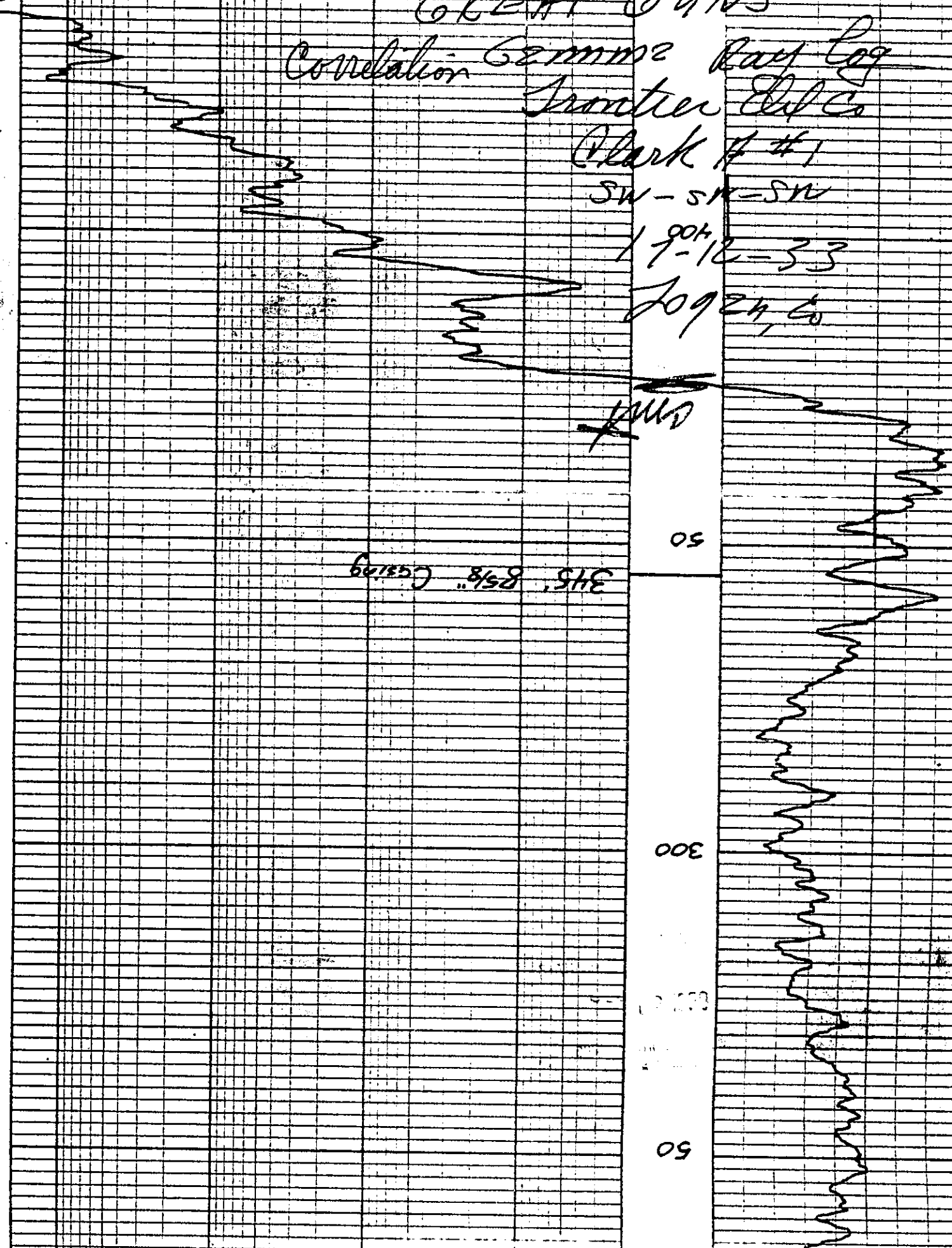
Frontier Sh Co

Block # 1

SW - SW - SW

1904-12-33

Log 24, 6



50

345' 85/8' Logging

300

500

50

RELEASED

ORIGINAL

# ALLIED CEMENTING CO., INC.

No. 7947

Home Office P. O. Box 81 Russell, Kansas 67665

*New*

Date	7-16-89	Sec.	17	Twp.	22 <sup>s</sup>	Range	33 <sup>w</sup>	Called Out		On Location		Job Start	3:00 AM	Finish	3:30 AM
Lease	Clark	Well No.	1A	Location	Monument 75 ES	County	Logan	State	KS						
Contractor	Red Tiger #4														
Type Job	Production String														
Hole Size	7 7/8	T.D.	4800												
Csg.	4 1/2	Depth	4792												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.		Shoe Joint	43												
Press Max.		Minimum													
Meas Line		Displace													
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 Co  
 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 *[Signature]*

### CEMENT

**Amount Ordered:** 225 csm 10% salt

<b>Consisting of</b>			
Common	225	SKS @ 6.00	1,350 <sup>00</sup>
Poz. Mix			
Gel.			
Chloride			
Quickset			
Salt	21	SKS @ 4.75	99 <sup>75</sup>

Handling	90¢		202 <sup>50</sup>
Mileage	3¢		108 <sup>00</sup>
16 mile			
<b>Sub Total</b>			
<b>Total</b>			4,760 <sup>25</sup>

### EQUIPMENT

No.	Cementer	<i>Dave</i>
Pumptrk 153	Helper	
No.	Cementer	<i>Geord</i>
Pumptrk	Helper	
	Driver	<i>Ed</i>
Bulktrk 160	Driver	

<b>DEPTH of Job</b>		
Reference:	PUMP Trk chg	838 <sup>00</sup>
	10¢ per mile	16 <sup>00</sup>
	4" Rubber Plug	31 <sup>00</sup>
	<b>Sub Total</b>	
	<b>Tax</b>	
	<b>Total</b>	885 <sup>00</sup>

**Remarks:**  
 plug Rod hole at 7556  
 Float held

STATE RECEIVED  
 OCT 10 1989  
 CONSERVATION DIVISION  
 Wichita, Kansas

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

CREATED

15-10920475-0000  
 Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

No. 7455

Home Office P. O. Box 51 Russell, Kansas 67685

DEC 1 1960

FROM CONFIDENTIAL

Sec	Twp	Range	Called Out	On Location	Job Start	Finish
			6:00 AM	8:30 AM	9:30 AM	3:00 PM
Clark A. J.			Moument TS		County Kansas	
Well No. A. J.			Location			
Type of Cement			Owner			
Pulverize Cement			SAME			
Depth			To Allied Cementing Co., Inc.			
1861			You are hereby requested to rent cementing equipment and furnish			
1861			cement and helper to assist owner or contractor to do work as listed.			
1861			Charge To			
1861			FRONTIER Oil Com			
1861			Street			
1861			City			
1861			Russell State Kansas			
1861			The above was done to satisfaction and supervision of owner agent or			
1861			contractor			
1861			Purchase Order No.			
1861			Amount Ordered			
1861			100 3/8 10 GET 1/4 lb. T.C.			
1861			Consisting of			
1861			75 Com 3% CC			
1861			Common			
1861			Pol. Mix			
1861			Gel.			
1861			Chloride			
1861			Quickset			
1861			Sales Tax			
1861			Handling			
1861			Miles			
1861			Sub Total			
1861			Total			
1861			Hearing Equipment			
1861			Sub Total			
1861			Tax			
1861			Total			
1861			Remarks			
1861			CEMENT 3% FROM SURFACE			

NOV 6 1960

CONSERVATION DIVISION  
 Wichita, Kansas

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

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

010

# ALLIED CEMENTING CO., INC. NO 7455

Home Office P. O. Box 31

Russell, Kansas 67665

15-109-20475-0000

Date	11-3-89	Sec	17	Twp.	12	Range	33	Called Out	6:00 AM	On Location	8:30 AM	Job Start	9:30 AM	Finish	3:00 PM
Lease	<del>11-3-89</del>	Well No.	Clark	A-1	Location			Monument	TS	Logan	County	Kansas	State		

Contractor	LEON'S Pulling SERVICE	
Type Job	Circulate Cement	
Hole Size	7 7/8	T.D.
Csg.	4 1/2	Depth
Tbg. Size	2"	Depth
Drill Pipe		Depth
Tool	Boad	Depth
Cement Left in Csg.		Shoe Joint
Press Max.	1000	Minimum
Meas Line		Displace
Perf.		

Owner	SIME
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 Com
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	<i>[Signature]</i>

### EQUIPMENT

Pumptrk	No.	Cementer	R. Davis
	153	Helper	Gerald
Pumptrk	No.	Cementer	
		Helper	
Bulktrk	148	Driver	Ed
Bulktrk	160	Driver	STEVE

### CEMENT

Amount Ordered	400 SKs <sup>65/35</sup> 30 Gal 1/4 lb Fls
Consisting of	75 Com 3% CC
Common	1335 SKs @ 6.00 = 2,010
Poz. Mix	140 SKs @ 2.40 = 336
Gel.	34 SKs @ 6.75 = 229
Chloride	100 lbs Flo-Sol @ 1.60 = 160
Quickset	2 SKs CC @ 20.00 = 40

### DEPTH of Job

Reference:	#	450 <sup>00</sup>
	100 Per Mile	16 <sup>00</sup>
	Sub Total	
	Tax	
	Total	466 <sup>00</sup>

Handling	90¢	427
Mileage	3¢	228
	16 miles	
	Sub Total	
	Total	3,431

Remarks:  
 CEMENT 376' FROM SURFACE

Floating Equipment

*[Faint text and stamps]*

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

15-109-20475-0500  
 Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC. No. 7717

Home Office P. O. Box 31

Russell, Kansas 67665

*New*

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
8-3-89	17	12	33	10:00 AM	1:00 PM	2:00 PM	4:30 PM
Lease <i>Clark</i>	Well No. <i>A-1</i>		Location <i>Monument</i>		<i>7 1/4 E</i>	County <i>Logan</i>	State <i>Kansas</i>
Contractor <i>LEON'S DRG. Service</i>				Owner <i>Same</i>			
Type Job <i>Squeeze</i>				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.			
Hole Size		T.D.					
Csg. <i>4 1/2"</i>		Depth					
Tbg. Size <i>2"</i>		Depth <i>4239'</i>					
Drill Pipe <i>(Ray)</i>		Depth					
Tool <i>BRAD OIL TOOLS</i>		Depth					
Cement Left in Csg.		Shoe Joint					
Press Max.		Minimum					
Meas Line		Displace					
Perf.							

### EQUIPMENT

Pumptrk #177	No.	Cementor	<i>Shawn Bull</i>
		Helper	
Pumptrk #160	No.	Cementor	<i>Steve</i>
		Helper	
Bulktrk		Driver	
		Driver	

### DEPTH of Job

Reference:	<i>Pump TRUCK CHRG.</i>	<i>450.00</i>
	<i>@ 1.00 Per Mile</i>	<i>17.00</i>
	Sub Total	
	Tax	
	Total	<i>467.00</i>

Remarks: *Pumped into Perf 1 1/2 BPM*

*at 2200# Mixed 25 sk Squeezed*  
*at 2200# Washed out Tubing*  
*Pulled 10 Joints Pres. up*  
*at 1000# ~~5000#~~ Closed in over night,*

Charge To	<i>Frontier Oil</i>
Street	<i>1137 Franklin</i>
City	<i>Russell</i> State <i>Kansas</i>
The above was done to satisfaction and supervision of owner agent or contractor	
Purchase Order No.	
X	<i>[Signature]</i>
<b>CEMENT</b>	
Amount Ordered	<i>25 SK COM.</i>
Consisting of	
Common	<i>25 SK @ 5.00 = 125.00</i>
Poz. Mix	
Gel.	
Chloride	
Quickset	
Sales Tax	
Handling	<i>@ 90¢ = 22.50</i>
Mileage	<i>3¢/sk/mile = 40.00</i>
Sub Total	
Total	
<i>187.50</i>	
Flaring Equipment	

*[Signature]*

CONSERVATION DIV.  
 STATE OF KANSAS





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

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843  
 15109-20475-0000

# ALLIED CEMENTING CO., INC. No. 7947

Home Office P. O. Box 31

Russell, Kansas 67665

*New*

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
8-16-89	17	22 <sup>s</sup>	33 <sup>w</sup>			3:00 AM	3:30 AM
Lease	Well No.	Location		County	State		
Clark	1A	Monument 75 ES		Logan	Ks		
Contractor				Owner			
Red Tiger #4				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.			
Type Job				Charge To			
Production String				Frontier Oil Co			
Hole Size	T.D.	Depth		Street			
7 7/8	4800	4792		1437 N. Franklin			
Csg.	Depth	Depth		City			
4 1/2				Russell			
Tbg. Size	Depth	Depth		State			
				Kan 67665			
Drill Pipe	Depth	The above was done to satisfaction and supervision of owner agent or contractor					
		Purchase Order No.					
Tool	Depth	X <i>[Signature]</i>					
Cement Left in Csg.	Shoe Joint	CEMENT					
	43	Amount Ordered					
Press Max.	Minimum	225 com 10% salt					
Meas Line	Displace	Consisting of					
		Common					
		225 sks @ 6.00 1,350.00					
		Poz. Mix					
		Gel.					
		Chloride					
		Quickset					
		Salt					
		21 sks @ 4.75 99.75					
		Sales Tax					
		Handling					
		90¢ 202.50					
		Mileage					
		3¢ 108.00					
		16 mile					
		Sub Total					
		Total					
		4,760.25					
		Floating Equipment					

**EQUIPMENT**

No.	Cementer	
Pumptrk 153	Helper	Dave Gerald
No.	Cementer	
Pumptrk	Helper	
	Driver	Ed
Bulktrk 160	Driver	

**DEPTH of Job**

Reference:		
	PUMP tok chg	838.00
	100 Per mile	16.00
	4 1/2 Rubber Plug	31.00
	Sub Total	
	Tax	
	Total	885.00

**Remarks:**

plug Rotholink 1556  
 Float Head

STATE OF KANSAS COMMISSION

SUP - 1 1989

STATE OF KANSAS COMMISSION

Phone 9 3-483-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843  
 15-109-20475-0000

# ALLIED CEMENTING CO., INC. No. 7921

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	7-1-89	Sec.	17	Twp.	12S	Range	33W	Called Out	3:30PM	On Location	6:30PM	Job Start	9:15PM	Finish	9:45PM	
Lease	CLARK	Well No.	#1-A	Location				MONUMENT 6 1/2 S 1/4 E	County	LOGAN	State	KANSAS				
Contractor	Red Tiger Drllg. Rig #5															
Type Job	LONG SURFACE															
Hole Size	12 1/4	T.D.	348													
Csg.	8 5/8	Depth	344													
Tbg. Size		Depth														
Drill Pipe		Depth														
Tool		Depth														
Cement Left in Csg.	15'	Shoe Joint														
Press Max.		Minimum														
Meas Line		Displace	21 1/4 <sup>BSL</sup>													
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. Fred J. Ruedger Jr.

**CEMENT**

Amount Ordered	190 SK <sup>WY</sup> 40 2 1/2 gal 3 1/2 cc		
Consisting of			
Common	114	6.00	684.00
Poz. Mix	76	2.40	182.40
Gel.	3	6.75	20.25
Chloride	6	20.00	120.00
Quickset			
Sales Tax			
Handling	.90 PER SK		171.00
Mileage	.03 PER TAX MILE	16	91.20
			Sub Total
			1268.85
			Total

**EQUIPMENT**

Pumptrk #177	No. Cementer	<i>Will</i>
	Helper	
Pumptrk #22	No. Cementer	<i>Joel</i>
	Helper	
Bulktrk	Driver	
Bulktrk	Driver	

DEPTH of Job

Reference:	Pump TRUCK Chrg.	360.00
	10¢ Per mile	16.00
	Sub Total	71.00
	1-8 5/8 RUBBER Plug Tax	
	Total	447.00

Remarks:  
 Cement  
 CIRCULATED

Floating Equipment

*Thanks*

RECEIVED  
 SEP 21 1989

DATE RECEIVED BY