

ORIGINAL

15-179-20986-0000

KCC

SIDE ONE

MM
APR 01

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

API NO. 15- 179-20,986-0000
County Sheridan **CONFIDENTIAL**

Operator: License # 5140

SE SE NW Sec. 23 Twp. 9S Rge. 26 East West

Name: FRONTIER OIL COMPANY

2970 Ft. North from Southeast Corner of Section

Address 125 N. Market, Ste. 1720

2970 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

City/State/Zip Wichita, KS 67202

Lease Name Borger Well # 1

Field Name Unknown

Purchaser: N/A

Producing Formation N/A

Operator Contact Person: Jean Angle

Elevation: Ground 2639 KB 2644

Phone (316) 263-1201

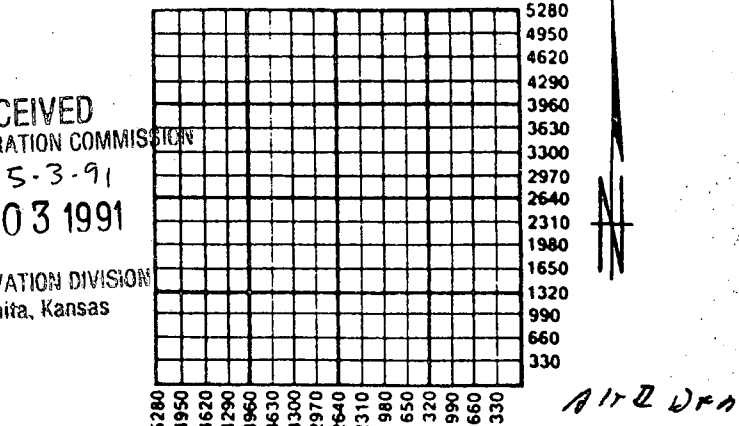
Total Depth 4130 PBDT N/A

Contractor: Name: RED TIGER DRILLING CO.

License: 5302

Wellsite Geologist: Dick Parker

Designate Type of Completion
 New Well Re-Entry Workover



Amount of Surface Pipe Set and Cemented at 263 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.

Oil SWD Temp. Abd. CONSERVATION DIVISION
Gas Inj Delayed Comp. Wichita, Kansas
 Dry Other (Core, Water Supply, etc.)

If OWM: old well info as follows:
Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable

2-21-91 3-3-91 3-3-91
Spud Date Date Reached TD Completion Date

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 5-1-91

Subscribed and sworn to before me this 1st day of May, 19 91.

Notary Public D'Ann Drennan

Date Commission Expires 2-10-94



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)

SIDE TWO

Operator Name FRONTIER OIL COMPANY Lease Name Borger Well # 1
 Sec. 23 Twp. 9S Rge. 26 East County Sheridan
 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	2279	+366
Topeka	3644	-1000
Heebner	3850	-1206
Toronto	3871	-1227
Lansing-KS City	3889	-1245
Base of KS City	4118	-1473
RTD	4130	-1486

DST #1 (3848-3884)30-45-30-45. Rec. 240' M.
 IF 177-177, FF 188-144, ISIP 997, FSIP 942.
DST #2 (3902-3944)60-45-60-45. Rec. 10' O.
 910' SW, IF 77-344, FF 377-466, ISIP 710,
 FSIP 688.

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#	263	60-40POZ	165	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)						
Estimated Production Per 24 Hours	Oil Bbls.	Gas	Mat	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-19.) Other (Specify) _____

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SIDE TWO (Page Two)

ACO-1 WELL HISTORY

OPERATOR FRONTIER OIL COMPANY LEASE NAME Borger #1 SEC. 23 TWP. 9S RGE. 26W

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><u>DST #3</u> (3964-3972) 60-45-60-45. Rec. 360' SW. IF 33-100, FF 133-177, ISIP 1063, FSIP 1030.</p>		<p>KCC #1 CONFIDENTIAL</p>		
<p><u>DST #4</u> (4032-4057) 30-45-30-45. Rec. 5' M. IF & FF 10-10, ISIP & FSIP 10</p>				
<p><u>DST #5</u> (4052-4078) 30-45-30-45. Rec. 10' M, IF & FF 22-22, ISIP 22, FSIP 33.</p>				
<p><u>DST #6</u> (4072-4100) 30-45-30-45. Rec. 10' M. IF 22-22, FF 23-33, ISIP 22, FSIP 33.</p>				

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CONSERVATION DIVISION
Wichita, Kansas

SIDE TWO

Operator Name FRONTIER OIL COMPANY Lease Name Borger Well # 1
 Sec. 23 Twp. 9S Rge. 26 East West
 County Sheridan

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.)

Formation Description		
	<input type="checkbox"/> Log	<input checked="" type="checkbox"/> Sample
Name	Top	Bottom
Anhydrite	2279	+366
Topeka	3644	-1000
Heebner	3850	-1206
Toronto	3871	-1227
Lansing-KS City	3889	-1245
Base of KS City	4118	-1473
RTD	4130	-1486

TEST #1 (3848-3884)30-45-30-45. Rec. 240' M.
 FF 177-177, FF 188-144, ISIP 997, FSIP 942.
TEST #2 (3902-3944)60-45-60-45. Rec. 10' O.
 IF 77-344, FF 377-466, ISIP 710,
 FSIP 688.

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#	263	60-40POZ	165	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							
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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) _____

Phone 913-483-2627, Russell, Kansas

Phone 316-793-5861, Great Bend, Kansas

15-179-20986-0000

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

KCC
APR 1991

9715

Date	2-21-91	Sec.	23	Twp.	9 ^s	Range	26 ^w	Called Out	11:00 A.M.	On Location	3:40 P.M.	Job Start	4:15 P.M.	Finish	4:45 P.M.	
Lease	Bonger	Well No.	1	Location				Studley 1/2 6 5/2 W 1/2 S	County	Shenandoah	State	Ks.				
Contractor	Red Tiger Drilling Co.				Rig #	9	Owner	Same								
Type Job	Set Surface Pipe															
Hole Size	12 1/4"	T.D.	265'													
Csg.	8 7/8"	Depth	263'													
Tbg. Size		Depth														
Drill Pipe		Depth														
Tool		Depth														
Cement Left in Csg.	15'	Shoe Joint														
Press Max.		Minimum	-													
Meas Line	X	Displace	X													
Perf.																

EQUIPMENT

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

DEPTH of Job		
Reference:		
#1	Pumptruck - surface	380.00
#13	mileage @ 2.00/mi.	120.00
	1-8 7/8" wooden plug	42.00
	Sub Total	542.00
	Tax	
	Total	

Remarks: Cement Circulated.

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 Ks. 67665

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

Purchase Order No. *Jimmy Harrell*
CEMENT

Amount Ordered: 165 sks @ 40 gal @ 220 gal, 326 c.c.

Consisting of		
Common	99 sks @ 5.25/sk.	519.75
Poz. Mix.	66 sks @ 2.25/sk.	148.50
Gel.	3 sks	N/C.
Chloride	5 sks @ 21.00/sk.	105.00
Quickset		

Handling	e/1.00/sk. (165 sks)	165.00
Mileage	2.047/sk./mi. (60 mi)	396.00
Sub Total		1334.25
Total		

Floating Equipment: Thanks

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CONSERVATION DIVISION
Wichita, Kansas

J-2627, Russell, Kansas

793-5861, Great Bend, Kansas

15-179-20980-0000

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

No. 9725

CONFIDENTIAL

3-2-91

3-3-91

Date	3-3-91	Sec.	23	Twp.	9 ^s	Range	26 ^w	Called Out	10:15 P.M.	On Location	1:30 A.M.	Job Start	5:00 A.M.	Finish	8:30 A.M.	
Lease	Bongen	Well No.	1	Location				Studley 1W6S 1/2W 1/2S	County	Sheridan	State	Ks.				
Contractor	Red Tiger Dr. Co.				Rig #9				Owner	Same						
Type Job	Plug															
Hole Size	7 7/8"				T.D.	4130'										
Csg.	8 7/8"				Depth	263'										
Tbg. Size					Depth											
Drill Pipe					Depth											
Tool					Depth											
Cement Left in Csg.					Shoe Joint											
Press Max.					Minimum	-										
Meas Line					Displace											
Perf.																

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 Ks. 67665
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.
 X D.R. GIMMAY
CEMENT

EQUIPMENT

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

Amount Ordered	200 sks 6 3/4 per 62 gal, 3 1/2 c.c.	
Consisting of	with 1 sk. floeal	
Common	120 sks @ 5.25/sk.	630.00
Poz. Mix	80 sks @ 2.25/sk.	180.00
Gel.	7 sks @ 6.75/sk. (Used 10 sks)	47.25
Chloride	6 sks @ 21.00/sk.	126.00
Quickset	Floesal - 25# @ 1.00/1b.	25.00
Sales Tax		
Handling	el. 00/sk. (200 sks)	200.00
Mileage	0.44/sk./mi. (60 mi.)	480.00
Sub Total	# 1688.25	
Total		

DEPTH of Job	Reference:	#	Amount
	#8 Pumptruck - plug		475.00
	#13 mileage @ 2.00/mi.		120.00
	1-8 7/8" dry hole plug		21.00
	Sub Total		616.00
	Tax		
	Total		

Floating Equipment: Thanks

Remarks:
 1st plug @ 2280' w/25 sks.
 2nd plug @ 1365' w/100 sks.
 3rd plug @ 300' w/50 sks.
 8 7/8" plug @ 40' w/10 sks to surface.
 Plugged rat hole w/15 sks.

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CONSERVATION DIVISION Wichita, Kansas