

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, Ks, 67202  
City/State/Zip

Operator Contact Person Jean Angle  
Phone 316-263-1201

Contractor: license # 5302  
name Red Tiger Drilling Company

Wellsite Geologist Steven D. Angle  
Phone 913-628-2586

PURCHASER Northern Gas Products

Designate Type of Completion  
 New Well  Re-Entry  Workover

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

If OWWO: old well info as follows:  
Operator  
Well Name  
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:  Mud Rotary  Air Rotary  Cable

1-10-84 1-22-84 7-13-84  
Spud Date Date Reached TD Completion Date

3750' N/A  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1217' feet

Multiple Stage Cementing Collar Used?  Yes  No

If Yes, Show Depth Set feet

If alternate 2 completion, cement circulated  
from feet depth to w/ SX cmt

API NO. 15-165-21,171-00-00

County Rush

SW SW SW Sec. 13 Twp. 17S Rge. 18W West

330 Ft North from Southeast Corner of Section  
4950 Ft West from Southeast Corner of Section  
(Note: locate well in section plat below)

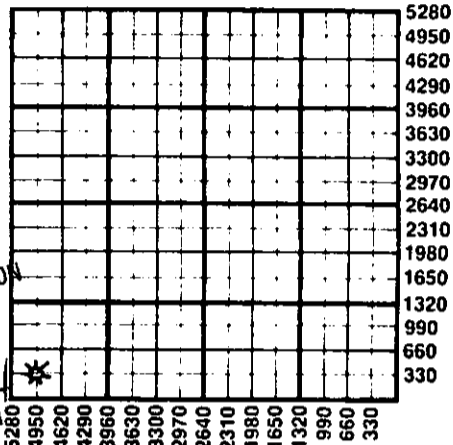
Lease Name Koci Well# 2

Field Name Ficken

Producing Formation Perm. Sand

Elevation: Ground 2097 KB 2102'

Section Plat



RECEIVED  
STATE CORPORATION COMMISSION  
JUL 16 1984  
CONSERVATION DIVISION  
Wichita, Kansas

WATER SUPPLY INFORMATION

Source of Water:

Division of Water Resources Permit #

Groundwater Ft North From Southeast Corner and  
(Well) Ft. West From Southeast Corner of  
Sec Twp Rge  East  West

Surface Water Ft North From Southeast Corner and  
(Stream, Pond etc.) Ft West From Southeast Corner  
Sec Twp Rge  East  West

Other (explain) Purchased/Larry Collins, Nekoma, Ks.  
(purchased from city, R.W.D.#)

Disposition of Produced Water:  Disposal  
 Repressuring

Docket # D-21,544

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rules 82-3-130 and 82-3-107 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 *George A. Angle*  
Title Owner Date 7-13-84

Subscribed and sworn to before me this 13<sup>th</sup> day of July 1984

Notary Public *Jean Angle*  
Date Commission Expires 5-14-85



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)

Sec. 13, Twp. 17S, Rge. 18W

Operator Name Frontier Oil Company Lease Name Koci Well# .2 SEC 13 TWP. 17S RGE. 18W  East  West

**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.

<p>Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                  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</p>	<p><b>Formation Description</b>  <input type="checkbox"/> Log <input checked="" type="checkbox"/> Sample</p>																																																						
<p>DST 1 (1992-2055) 60-30-60-30 Vy wk to gd blo 45".                  2nd op wk blo TO. Rec 90' thin M. IF 60-71 FF 81-91                  ISI 101 FSI 121.</p> <p>DST 2 (3080-3110) 60-30-60-30 GTS 10". Avg gg 145,000                  CFGPD 2nd op Avg gg 122,000 CFGPD. Rec 122' M, 183' W.                  IF 111-132, FF 152-162 ISI 1015 FSI 986.</p> <p>DST 3 (3332-3421) 60-30-60-30 Fr blo TO 1st op. Wk blo                  TO 2nd op Rec 250' thin M. If 71-121 FF 152-193, ISI                  1115 FSI 1105.</p> <p>DST 4 (3421-3559) 30-30-15-30 Wk blo 10". No blo 2nd op.                  Rec 90' M. IF 121-121 FF 132-144, ISI 1055 FSI 986.</p> <p>DST 5 (3559-3588) 60-30-60-30 Fr blo TO. 1st op. Wk blo                  TO 2nd op. Rec 100' M, 123' WM. IF 40-81 FF 101-121                  ISI 936 FSI 906.</p> <p>DST 6 (3588-3685) 60-30-60-30 GTS 10" gg 1,198,000                  CFGPD. 1st op. 2nd op. stab @ 1,274,000 CFGPD. Rec 200'                  GM. IF 345-345 FF 315-345, ISI 1055 FSI 1035</p> <p>DST 7 (3588-3695) 60-30-60-30 GTS 13". gg 754,000 CFGPD                  1st op. 2nd op stab @ 953,000 CFGPD. Rec 480' GsyM.                  IF 365-376 FF 355-355, ISI 1055 FSI 1045.</p> <p>RTD 3750'.</p>	<table border="0"> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> <tr> <td>Anhydrite</td> <td>1212</td> <td>1242</td> </tr> <tr> <td>Herrington</td> <td>2002</td> <td></td> </tr> <tr> <td>Winfield</td> <td>2038</td> <td></td> </tr> <tr> <td>Cottonwood</td> <td>2448</td> <td></td> </tr> <tr> <td>Neva</td> <td>2509</td> <td></td> </tr> <tr> <td>Red Eagle</td> <td>2588</td> <td></td> </tr> <tr> <td>Brownville</td> <td>2739</td> <td></td> </tr> <tr> <td>Tarkio</td> <td>2846</td> <td></td> </tr> <tr> <td>Elmont</td> <td>2898</td> <td></td> </tr> <tr> <td>Topeka</td> <td>3088</td> <td></td> </tr> <tr> <td>Heebner</td> <td>3336</td> <td></td> </tr> <tr> <td>Toronto</td> <td>3352</td> <td></td> </tr> <tr> <td>Lansing-KC</td> <td>3381</td> <td></td> </tr> <tr> <td>Base-KC</td> <td></td> <td>3615</td> </tr> <tr> <td>Sand</td> <td>3676</td> <td></td> </tr> <tr> <td>Granite Wash</td> <td>3695</td> <td></td> </tr> <tr> <td>RTD</td> <td>3750</td> <td></td> </tr> </table>	Name	Top	Bottom	Anhydrite	1212	1242	Herrington	2002		Winfield	2038		Cottonwood	2448		Neva	2509		Red Eagle	2588		Brownville	2739		Tarkio	2846		Elmont	2898		Topeka	3088		Heebner	3336		Toronto	3352		Lansing-KC	3381		Base-KC		3615	Sand	3676		Granite Wash	3695		RTD	3750	
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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 Production	12-1/4" 7-7/8"	8-5/8" 4-1/2"	24# 10-1/2#	1225' 3739.98'	60-40 Poz Common	425 275	2% gel 3% cc 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	3676' - 3680'			N/A			
TUBING RECORD							
size	N/A	set at	packer at	N/A Liner Run		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Date of First Production	Producing method						
7-13-84	<input checked="" type="checkbox"/> flowing <input type="checkbox"/> pumping <input type="checkbox"/> gas lift <input type="checkbox"/> Other (explain)						
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio		Gravity	
	N/A	Approx. 2,686. MCF		N/A			
	Bbls		Bbls	CFPB			

Disposition of gas:  vented  
 sold  
 used on lease

**METHOD OF COMPLETION**  
 open hole  perforation  
 other (specify) .....

**PRODUCTION INTERVAL**  
 ... 3676-3680' .....

Dually Completed  
 Commingled