

**WELL COMPLETION REPORT AND  
DRILLER'S LOG**

**KANSAS**  
*State Geological Survey*  
WICHITA BRANCH

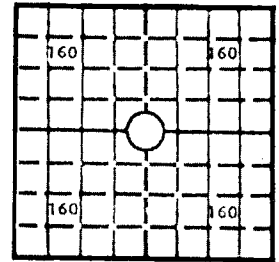
S. 14 T. 22S R. 11 E

API No. 15 — 073 — 21,644  
County Number

Loc. 2145' FNL-1320' FWL

County Greenwood

640 Acres  
N



Locate well correctly

Elev.: Gr. 1218'

DF 1221' KB 1223'

Operator  
Cities Service Company

Address  
800 Sutton Place Bldg., 209 E. William, Wichita, Kansas 67202

Well No. OP14 Lease Name Fromm

Footage Location  
2145 feet from (N) ~~XX~~ line 1320 feet from ~~XX~~ (W) line

Principal Contractor Berentz Drilling Geologist No wellsite geology

Spud Date 11-22-80 Date Completed 7-1-81 Total Depth 2000' P.B.T.D.

Directional Deviation ----- Oil and/or Gas Purchaser Cities Service

**CASING RECORD**

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs./ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	12 1/2"	8 5/8"	24#	107' KB	Class "A"	75	3% CaCl-2
Production	7 7/8"	4 1/2"	9.5#	1989' KB	Class "A"	175	10% NaCl .75% CFR-2

**LINER RECORD**

**PERFORATION RECORD**

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			4		1898' - 1944'

Size	Setting depth	Packer set at
2	1943'	

**ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD**

Amount and kind of material used	Depth interval treated

**INITIAL PRODUCTION**

Date of first production 7-1-81 Producing method (flowing, pumping, gas lift, etc.) Pumping

RATE OF PRODUCTION PER 24 HOURS  
Oil Trace bbls. Gas ----- MCF Water 70 bbls. Gas-oil ratio ----- CFPB

Disposition of gas (vented, used on lease or sold) ----- Producing interval (s) 1898' - 1944'

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 245 No. Water, Wichita, Kansas 67202. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator  
 Cities Service Company

DESIGNATE TYPE OF COMPLETION: OIL, GAS, DRY HOLE, SWDW, ETC.:

Well No. OP14      Lease Name Fromm      Oil

S 14 T 22S R 11 E  
 WX

**WELL LOG**

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

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.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Soil				2'
Lime & Shale				118'
Shale & Lime				610'
Lime Iatan				615'
Shale				972'
Lime Lansing				1106'
Shale				1236'
Lime KC				1399'
Shale & Lime				1524'
Lime Altamont				1530'
Shale				1545'
Lime Pawnee				1551'
Shale				1610'
Lime Ft. Scott				1694'
Shale Cherokee				1855'
Sand & Shale				1960'
Shale				2000' R.T.D.

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received	<i>C. N. Richmond</i>
	C. N. Richmond      Signature
	Enhanced Recovery Manager
	Title 8-28-81
	Date