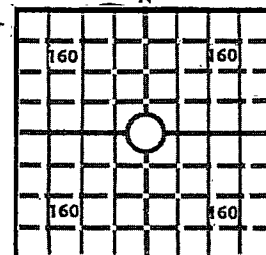


KANSAS DRILLERS LOG

API No. 15 — 093 — 20,416
County NumberS. 10 T. 26 R. 35 E
W

Loc. 2640' FWL & 1320' FSL

County Kearny

640 Acres
N

Locate well correctly

Elev.: Gr. 3015

DF 3018 KB 3020

Operator

Helmerich & Payne, Inc.

Address

Box 558 Garden City, Kansas 67846

Well No.

#B-4

Lease Name

Citizen's Building and Loan

Footage Location

1320 feet from (N) (S) line 2640 feet from (E) (W) line

Principal Contractor

Gabbert & Jones, Inc.

Geologist

Joseph Blair

Spud Date

5-6-77

Total Depth

2950'

P.B.T.D.

Date Completed

5-10-77

Oil Purchaser

NONE

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 1/4"	8 5/8"	23#	811'	Pozmix 35/65	350	6% gel & 2% CaCl
					Class H	150	3% CaCl
Production	7 7/8"	4 1/2"	9.5#	2949'	Pozmix 35/65	700	6% gel
					50/50 Pozmix	100	2% gel & 10% salt

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement
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PERFORATION RECORD

Shots per ft.	Size & type	Depth interval
		2896 - 2900'
2	1/2" Omega	2906 - 14'
		2858 - 88'
		2846 - 50'

TUBING RECORD

Size	Setting depth	Packer set at
2 3/8	2932	NONE

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
Acidize w/4500 gals 15% HCL, 100 ball sealers	2846 - 2914'
Frac w/2000 gals 15% HCL, 100,000 gals fresh water & 100,000 # river sand	2846 - 2914'

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
8-11-77		Pumping (water)			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	bbls.	1921 MCF	5 bbls.	CFPB	
Disposition of gas (vented, used on lease or sold)			Producing interval(s)		
Sold - Colorado Interstate Gas Company			2846 - 2914'		

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, 3830 So. Meridian (P.O. Box 17027), Wichita, Kansas 66217. 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

Operator Helmerich & Payne, Inc.		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:	
Well No. 4	Lease Name C B. & L "B"	Gas	
S <u>10</u> T <u>26</u> R <u>35</u> E <u>W</u>			
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
Council Grove - Limestone, white to buff to tan finely crystalline, fossiliferous fair to good porosity.	2839	2950	Base Stone
			Corral
			Herrington
			Winfield
			Ft Riley
			Florence
			Wreford
			Council Grove
			TD
			Gamma Ray
Neutron			
DEPTH			
			1914'
			2555'
			2617'
			2674'
			2783'
			2814'
			2839'
			2950'
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			
Date Received	 Signature Assistant Chief Production Clerk Title February 1, 1978 Date		