

KANSAS DRILLERS LOG

State Geological Survey
WICHITA, BRANCHAPI No. 15 — 093 — 20,341
County Number

Operator

Helmerich & Payne, Inc.

Address

P. O. Box 558 Garden City, Kansas 67846

Well No.

#A-2

Lease Name

Citizens Building & Loan

Footage Location

1980 feet from (N) (S) line 1980 feet from (X) (W) line

Principal Contractor

Gabbert-Jones, Inc.

Geologist

Joseph Blair

Spud Date

11-23-76

Total Depth

5220

P.B.T.D.

Date Completed

1-19-77

Oil Purchaser

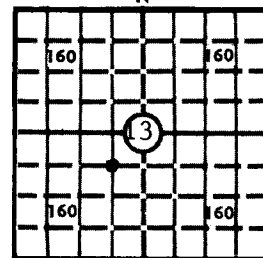
(Permian Inc.)

Hurricane Trading Co.

S. 13 T. 26 R. 35 W

Loc. C NE SW

County Kearny

640 Acres
N

Locate well correctly

Elev.: Gr. 3001'

DF KB 3008'

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 $\frac{1}{4}$ "	8-5/8"	28	804'	Howco Lite Wt & Class "H"	350 & 150	CaCl 2% CaCl 3%
Production	7-7/8"	5 $\frac{1}{2}$ "	14&15.5	5214'	1st Stage Pozmix	250 Gilsonite	NaCl 18%, 12.5#/sk CFR-2 0.75%

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2	.36" Dia. Jet	4964'-4972'
TUBING RECORD			2	.36" Dia. Jet	5064'-5071'
Size	Setting depth	Packer set at			
2-3/8"	5083'	5048'			

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
1000 Gal 15% Mud Acid	4964'-4972'
20,000 gal 3% Gelled Acid & 16,000# 10-20 mesh sand	4964'-4972'
1000 gal BDA Acid	5064'-5071'
3000 gal 28% Acid	5064'-5071'

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
1-19-77 (16 hrs)		Pumping			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	1-20-77 72 bbls.	0 MCF	6 bbls.	TSTM	CFPB
Disposition of gas (vented, used on lease or sold)			Producing interval(s)		
N/A			5064'-5071'		

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 66044.

Operator Helmerich & Payne, Inc.		DESIGNATE TYPE OF COMP.: <u>OIL</u> , GAS, DRY HOLE, SWDW, ETC.:		
Well No. A-2	Lease Name Citizens' Building & Loan	Oil		
S <u>13</u> T <u>26S</u> R <u>35</u> ^{EX} _W				
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
Krider- LS-Porosity not calculated-gas	2517'	2560'	B/Stone Corral	1870'
Winfield-LS Porosity not calculated-gas	2560	2612	Winfield	2556
Ft Riley-LS-Porosity 6-21%-gas	2612	2776	Council Grove	2776
Council Grove-LS-Porosity 6-22%-Gas	2776	2926	Topeka	3418
Lansing-LS-Porosity 6-22%-Water	3892	4342	Toronto	3861
Kansas City-LS Porosity not calculated- Water	4342	4455	Lansing	3892
			Lansing "F"	4156
Marmaton-LS-Porosity not calculated-water	4455	4876	Kansas City	4342
Morrow Sd-Sd-Porosity 10-17%-Possible oil	4952	4988	Marmaton	4455
Mississippi St. Gen-Sd-Porosity 5-Water	4988	5063	Morrow Sand	4952
Mississippi St Louis-Ls Por 2-8% Water	5063	5220	Miss St Gen	4988
			Miss St Louis	5063
<u>Drill Stem Tests</u>				
DST #1, Morrow Sd, no cushion, tool open 60 min. FP 180-245#, SIP 1260#. Rec'd 365' muddy, gassy oil, 235' slightly oil cut muddy water.	4959	4985	Compensated Formation Density Log	2500-5220'
DST #2, Mississippi-St Louis, no cushion Tool open 45 min. FP 114-163#, SIP 1032#, Rec'd 105' mud, 60' slightly oil & gas cut mud, 235' muddy, gassy oil.	5030	5075	Dual Induction Laterolog	812-5214'
DST #3, Mississippi-St Genevieve No cushion, tool open 90 min. FP 49-98#, SIP 1293#, Rec'd 220' muddy salt water.	4983	4996	Gamma Ray Correlation- Cement Top Log	4000'-5144'
DST #4, Lansing "F", No cushion, Tool open 30 min, FP 16#, SIP 1081#, Rec'd 40' mud.	4150	4166		
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.				
Date Received	 Signature District Production Superintendent Title 1-27-77 Date			