

KANSAS DRILLERS LOG

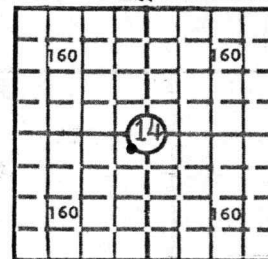
State Geological Survey

S. 14 T. 26 R. 37 E W

API No. 15 — 093 — 20,198
County Number

Loc. NE NE SW

County Kearny

640 Acres
N

Locate well correctly

Elev.: Gr. 3092

DF ————— KB 3100

Operator

Helmerich & Payne, Inc.

Address

Box 558 Garden, City, Kansas 67846

Well No.

#A-5

Lease Name

Hillyard

Footage Location

2310 feet from (N) (S) line 2310 feet from (E) (W) line

Principal Contractor

Service Drilling Co.

Geologist

David A. Brierly

Spud Date

6-26-75

Total Depth

2850

P.B.T.D.

2850

Date Completed

9-2-75

JOH Purchaser — Gas

Colorado Interstate Gas Co.

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#	805	Class H 35/65 Pozmix	150 400	3% CaCl 2% CaCl, 6% Gel 1/4#
Production	7-7/8"	4 $\frac{1}{2}$ "	10.5#	2856	Pozmix Pozmix	750 6% 150 2% Gel	5# Kolite/ D-29/ 10% Salt sack

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2	Dynajet 1/2"	2714-2718
			3	" "	2796-2799
			3	" "	2772-2779

TUBING RECORD

Size	Setting depth	Packer set at
2-3/8"	2828	

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
Treat with 500 gals 15% HCl	2685-2718
Frac w/120,000 fresh water & 120,000# washed river sand	2685-2718

INITIAL PRODUCTION

Date of first production 2-17-76		Producing method (flowing, pumping, gas lift, etc.) Flowing			
RATE OF PRODUCTION PER 24 HOURS	Oil 0 bbls.	Gas 1710 MCF	Water 0 bbls.	Gas-oil ratio CFPB	
Disposition of gas (vented, used on lease or sold) Sold- Colorado Interstate Gas Co.			Producing interval(s) 2685-2799- Council Grove		

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.: OIL, GAS, DRY HOLE, SWDW, ETC.:
Well No. A-5	Lease Name Hillyard	Gas
S 14 T 26 R 37 W		

WELL LOG

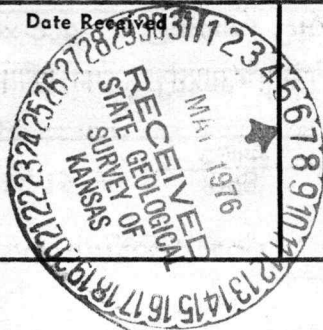
Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

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

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Upper Krider- Not identifiable- Predominately anhydrites and red beds.	2400	---	Upper Krider	2400
			Lower Krider	2420
Lower Krider- Not identifiable- Same as Upper Krider.	2420	---	Winfield	2464
			Upper Ft. Riley	2518
Winfield- Not identifiable- Predominately anhydrites & redbeds	2464	-----	Lower Ft. Riley	2566
			Florence	2618
Upper Ft. Riley- Dolomitic limestone, Dolomite and limey shale, some gas	2518	2566	Wreford	2656
			Council Grove A	2684
Lower Ft. Riley- Limestone- some gas	2566	2618	"B"	2736
			"C"	2770
Florence- Limestone, limey shale, red beds some gas	2618	2656	"D"	2792
			"E"	No time
Wreford- Limestone and chalky limestone, gas	2656	2684	"F"	2834
			T.D.	2850
Council Grove - Limestone, chert, red beds, chalk, oolitic limestone-gas	2684	T.D.	Gamma Ray neutron Log	1342-2842

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

Date Received



Tom Carroll
Signature
District Production Superintendent
Title
3-19-76
Date

14-26-37W

API No. 15-093- 20,198

llyard A-5, Sec 14, T26S, R37W

Perforation Record

Shots per ft.	Size & type	Depth Interval
3	Dynajet 1/2"	2749-2756
3	" "	2718-2725
3	" "	2710-2712
3	" "	2703-2705
3	" "	2685-2687

Acid, Fracture, Shot, Cement Squeeze Record

Amount & kind of material used	Depth Interval Treated

