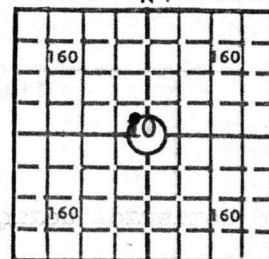


KANSAS DRILLERS LOG

State Geological Survey
WICHITA, BRANCHS. 10 T. 26 R. 37 E
W

Loc. SE SE NW

County Kearny

640 Acres
N

Locate well correctly

Elev.: Gr. 3055

DF --- KB 3063

API No. 15 — 093 — 20,196
County Number

Operator

Helmerich & Payne, Inc.

Address

Box 558 Garden City, Kansas

Well No.

#A-2

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

6-12-75

Total Depth

2814

P.B.T.D.

2814

Date Completed

9-25-75

Oil 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#	807	Pozmix Class H	300 150	6% Gel 2% CaCl 3% CaCl
Production	7-7/8"	4 $\frac{1}{2}$ "	10.5#	2831	Howco Lite Pozmix	750 100	10# gilsonite/sack 18% Salt

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			3	Dynajet 1/2"	2669-2672
			3	" "	2681-2689
			3	" "	2716-2724

TUBING RECORD

Size	Setting depth	Packer set at
2-3/8"	2771	

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
500 gals 15% HCl	2763-2770
500 gals 15% HCl	2781-2785
Squeeze perforations w/450 sacks common cement	2763-2785

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
2-17-76		Flowing			
RATE OF PRODUCTION PER 24 HOURS	Oil 0	Gas 1676	Water 4	Gas-oil ratio	
	bbls.	MCF	bbls.	CFPB	
Disposition of gas (vented, used on lease or sold)			Producing interval (s)		
Sold-Colorado Interstate Gas Co.			2737-2785-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-2	Lease Name Hillyard	Gas
S 10 - T 26 R 37 W		

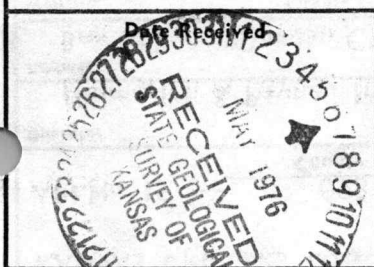
WELL LOG

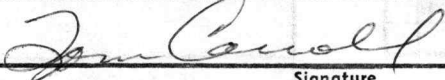
Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

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

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Upper Krider- Limestone and dolomitic limestone.	2370	2392	Stone Corral	1720
Lower Krider- Limestone & dolomitic limestone	2392	2428	Base Stone Corral	1822
Winfield- Dolomite, dolomitic limestone & limestone- some gas	2428	2450	Upper Krider	2370
Upper Ft. Riley- Limestone- some gas	2480	2500	Lower Krider	2392
Lower Ft. Riley- Limestone- some gas	2534	2550	Winfield	2428
Wreford- Limestone- gas	2622	2644	Upper Ft. Riley	2480
Council Grove- Limestone and oolitic limestone- gas	2644	T.D.	Lower Ft. Riley	2534
			Florence	2584
			Wreford	2622
			Council Grove A	2644
			"B"	2702
			"C"	2737
			"D"	2756
			"E"	2776
			"F"	2790
			T.D.	2814
			Gamma Ray Neutron	1300'-2808'
			Dual Induction Laterolog	814'-2808'
			Compensated Neutron Formation Density Log	814-2815'

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




 Signature
 District Production Superintendent
 Title
 3-19-76
 Date

Merich & Payne, Inc.

Supplement to Kansas Drillers Log

Hillyard A-2 Sec 10, T26S, R37W, Kearny County

10-26-37W

API No. 15-093-20,196

Perforation Record

Shots per ft.	Size & type	Depth Interval
3	Dynajet 1/2"	2737-2744'
4	" "	2763-2770'

Acid, Fracture, Shot, Cement Squeeze Record

Amount & kind of material used	Depth Interval Treated
Squeeze perforations w/100 sx common cement	2781-2785
Frac w/120,000 gals fresh water & 120,000# sand	2669-2770

