KANSAS DRILLERS LOG

State Geological Survey
WICHITA

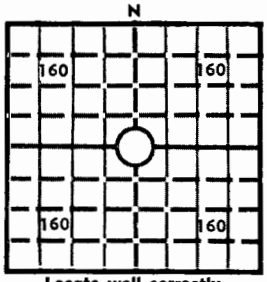
API No. 15 — 025 (County) — 20,034 (Number)

S. 17 T. 32 R. 21 W

Loc. SW SE SW

County Clark

640 Acres
N



Locate well correctly

Elev.: Gr. 2113

DF _____ KB 2092

Operator
Rains & Williamson Oil Co., Inc.

Address
435 Page Court, 220 W. Douglas Wichita, Ks. 67202

Well No.	Lease Name
#1	Harden

Footage Location
feet from (N) (S) line — feet from (E) (W) line

Principal Contractor	Geologist
Rains & Williamson	Deane Jirrels

Spud Date	Total Depth	P.B.T.D.
12-22-72	5195'	

Date Completed	Oil Purchaser
1-7-73	

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
	12¼	8-5/8		605'		450	2% gel 3% c.c.

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement

TUBING RECORD

Size	Setting depth	Packer set at

PERFORATION RECORD

Shots per ft.	Size & type	Depth interval

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated

INITIAL PRODUCTION

Date of first production	Producing method (flowing, pumping, gas lift, etc.)

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

Disposition of gas (vented, used on lease or sold)	Producing interval(s)

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, Lowrence, Kansas 66044.

C-10-1972

Operator
Rains & Williamson Oil Co., Inc.

DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:
Dry Hole

Well No. #1 | Lease Name Harden

S 17 T 32 R 21 W SW SE SW

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
DST #1, 4587-4625 Open 30, Shutin 30, Open 60, Shutin 30. Strong blow throughout. Rec. 50' mud: 120' watery mud: 2280' muddy water. IBHP 1616 FBHP 1616 FP's 220-1285 BHT 114°			LOG TOPS	
DST #2, 4947-4992 Open 30, Shutin 30, Open 30, Shutin 30. Strong blow. BHP 1827-1827. FP's 135-752, 752-1069. Temp. 119°. Rec. 2040' saltwater.			Winfield	2643 -530
DST #3, 5157-5195 Fair blow. Open 30, Shutin 30, Open 30, Shutin 30. Rec. 390' muddy salt water. IBHP 1838 FBHP 1828 IFP 52 FFP 190 Temp 124°			Base Florence	2861 -748
DST #4, 3836-3856 Weak blow. Rec. 120' saltwater. Open 30, Shutin 30, Open 30, Shutin 30. IBHP 1420 FBHP 1414 FP's 8-63 Temp. 111°			Wreford	2922 -809
DST #5, 3298-3318 Open 30, Shutin 30, Open 30, Shutin 30. Strong blow. Rec. 2330' water. BHP 1161 FBHP 1161 IFP 211 FFP 1089 Temp. 97°			Red Eagle	3268 -1155
			Foraker	3334 -1221
			Wabaunsee	3474 -1361
			Tarkio-Elmont	3604 -1491
			Howard	3790 -1677
			Heebner	4359 -2246
			Lansing	4558 -2445
			Hertha	4961 -2848
			Base KC	4994 -2881
			Ft. Scott	5162 -3048
			LTD	5185 -3072

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

Date Received
AUG 1973
RECEIVED
STATE GEOLOGICAL SURVEY OF KANSAS

Signature Wilson Rains

President
Title

July 10, 1973
Date

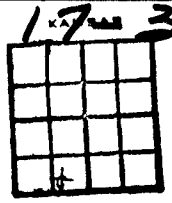
...OGICAL SOCIETY
...East Murdock
...ichita, Kansas

FEB 9 1973

WELL LOG

API#15-025-20,034

17-32-21W



COMPANY Rains & Williamson Oil Co., Inc.

SEC. 17 T. 32S R. 21W

FARM Harden NO. 1

LOC. SW SE SW

RIG. NO. 3

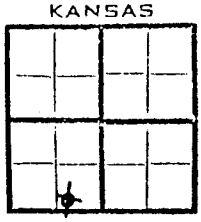
TOTAL DEPTH 5195

COUNTY Clark

KANSAS

COMM. 12-22-72 COMP. 1-7-73

CONTRACTOR Rains & Williamson Oil Co., Inc.



CASING

20" @ 37' w/ 60 sx.

8 5/8" @ 605' w/ 450 sx., 2% gel, 3% cc.

ELEVATION 2113 KB

PRODUCTION D & A

FIGURES INDICATE BOTTOM OF FORMATIONS

Cement, Red Bed and Shale	410
Shale	2415
Shale and Shells	2555
Shale and Lime	3444
Lime and Shale	4625
Lime	4645
Lime and Shale Streaks	4745
Lime	5028
Lime with Shale Streaks	5105
Lime	5195
Rotary Total Depth	5195

LOG tops	depth
HEEB	4359
LANS	4558
SWOPE	4961
HUSHPUCKNEY	4994
BKC	5056
MARM	5072
PAWN	5162
LTD	5185
RTD	5195

