

KANSAS DRILLERS LOG

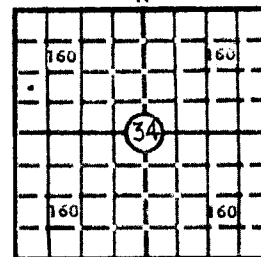
API No. 15 — 167 — 21,016
County Number

S. 34 T. 14 R. 14 W

Loc. NW SW NW

County Russell

640 Acres
N



Locate well correctly

Elev.: Gr. 1721'

DF 1723' KB 1726'

Operator
National Cooperative Refinery Association

Address
Box 6 Great Bend, Kansas

Well No. #5 Lease Name Mai

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

Principal Contractor RED TIGER DRILLING CO. Geologist J. C. MUSGROVE

Spud Date FEBRUARY 7, 1977 Total Depth 3160' P.B.T.D.

Date Completed MARCH 3, 1977 Oil Purchaser KAW PIPELINE

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"	24#	722'	50/50 POZ.	250	2% GEL 3% CACL
					COMMON	100	3% CACL
PRODUCTION	7 7/8"	5 1/2"	14#	3157'	50/50 POZ.	150	18% SALT SATURATED 3/4 OF 1% CFR 2

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval

TUBING RECORD

Size	Setting depth	Packer set at			
2 3/8"	3153'				

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
250 GAL. 15% MCA ACID	3157-60'

INITIAL PRODUCTION

Date of first production MARCH 3, 1977 Producing method (flowing, pumping, gas lift, etc.) PUMPING

RATE OF PRODUCTION PER 24 HOURS Oil 63 bbls. Gas — MCF Water 3 bbls. Gas-oil ratio CFPB

Disposition of gas (vented, used on lease or sold) Producing interval(s) ARBUCKLE OPEN HOLE 3157-60'

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.

State Geological Survey

WICHITA, BRANCH

Operator

NATIONAL COOPERATIVE REFINERY ASSOCIATION

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

OIL

Well No.

5

Lease Name

MAI

S 34 T 14 R 14 W

NW SW NW

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
GEOLOGICAL REPORT AND LOGS ATTACHED			SAMPLE TOPS:	
			ANHYDRITE	716' (+1010')
			GRAND HAVEN	2216' (-540')
			1ST TARKIO SAND	2277' (-551')
			DOVER	2293' (-567')
			2ND TARKIO SAND	2302' (-576')
			TARKIO LIME	2338' (-612')
			HEEBNER	2833' (-1107')
			TORONTO	2854' (-1128')
			DOUGLAS	2869' (-1143')
			LANSING	2899' (-1173')
			CONGLOMERATE	3135' (-1409')
			" SAND	3148' (-1422')
			ARBUCKLE	3154' (-1428')
			RTD	3160' (-1434')

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD

Date Received

Signature

DISTRICT SUPERINTENDENT

Title

MARCH 23, 1977

Date