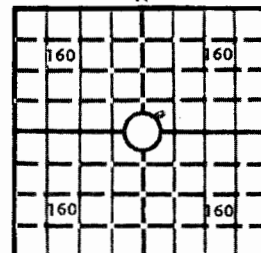


KANSAS DRILLERS LOG

State Geological Survey
WICHITA, BRANCHAPI No. 15 — 077 — 20171
County NumberS. 10 T. 31 R. 9 E
W

Loc. SW SW NE

County Harper

640 Acres
N

Locate well correctly

Elev.: Gr. 1644

DF 1646 KB 1649

Operator

Range Oil Co.

Address

240 Page Court, 220 West Douglas, Wichita

Well No.

#1

Lease Name

Kirkpatrick

Footage Location in the NE/4

330 feet from N (S) line

330

feet from E (W) line

Principal Contractor

Red Tiger Drlg. Co.

Geologist

R. B. Gebhart, Jr.

Spud Date

11-30-72

Total Depth

4451'

P.B.T.D.

Date Completed

12-12-72

Oil Purchaser

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		8 5/8"		254'		225	

LINER RECORD

PERFORATION RECORD

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

Size	Setting depth	Packer set at			

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, Lawrence, Kansas 66044.

Operator Range Oil Company, Inc.		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Dry
Well No. #1	Lease Name Kirkpatrick	
S <u>10</u> T <u>23</u> R <u>9</u> <u>W</u>		

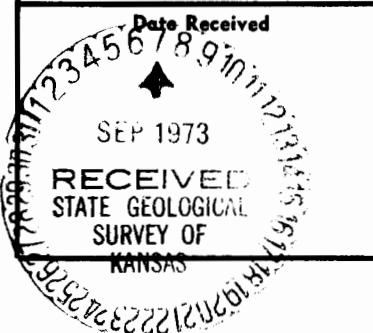
WELL LOG

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
Herington	1651		Bariod Gas Detector	started @ 1600'
Florence	1876			
Indian Cave	2458			
Tarkio	2653			
Howard	2916			
Topeka	3061			
Heebner	3450			
Douglas Zone	3492			
Stalnaker Sand	3582			
Lansing	3742			
Stark Shale	4078		DST #1 DST #2	4366-94 4394-4413
Mississippian	4364			
Rotary Total Depth	4451			

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



Signature	
Title	
Date	

10-31S-9W
SW SW NE



DRILLERS LOG

API #15-077-20,171 No. 1 Kirkpatrick

CASING RECORD:	COMPANY:	Range Oil Company, Inc.	DESCRIPTION:
8-5/8" @ 261'	CONTRACTOR:	Red Tiger Drilling Co.	SW SW NE
w/225 sx cement	COMMENCED:	November 30, 1972	10-31S-9W
TOTAL DEPTH: 4451'	COMPLETED:	December 13, 1972	Harper County, Kansas
			ELEVATION:

<u>FORMATION</u>	<u>FROM</u>	<u>TO</u>	<u>REMARKS</u>
Sand	0	75	SMP TOPS:
Redbed	75	265	HER 1651
Redbed & Shale	265	920	COLLEN 2188
Shale	920	1426	IND CAV 2458
Shale & Limestreaks	1426	1590	HOW 2916
Shale & Shells	1590	1700	TOP 3061
Lime	1700	1820	HEEB 3450
Lime & Shale	1820	1970	MISS 4364
Lime	1970	4158	RTD 4451
Kansas City - Lime	4158	4222	
Lime	4222	4322	
Lime & Shale	4322	4363	
Lime & Chert	4363	4403	
Chert	4403	4413	
Lime	4413	4451	

I certify that this is a true and correct copy of the above log to the best of my knowledge.

RED TIGER DRILLING COMPANY

Virginia K. Albert
Virginia K. Albert

Subscribed and sworn to before me this 18th day of December, 1972.