

KANSAS DRILLERS LOG

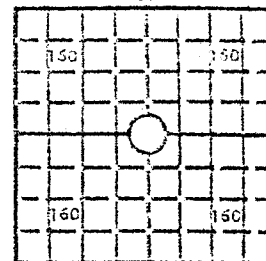
State Geological Survey

WICHITA, BRANCH

API No. 15 — 175 — 20,197
County NumberS. 34 T. 32 R. 31 K
W

Loc. C SE NE

County Seward

640 Acres
N

Locate well correctly

Elev.: Gr. 2772

2740

DF 2770 KB 2782

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 $\frac{1}{2}$	8 5/8	24	1570	Class H 50-50	640 35/65 150 com.	6% gel. 2% CaCl.
Production	7 7/8	5 $\frac{1}{2}$	10	6003	50-50 pos	225	10% NaCl. 2% gel.

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2	DP Jet	5564-68
Size	Setting depth	Packer set at			
2 3/8	5521	5650	2	DP Jet	5542-47 5504-08

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

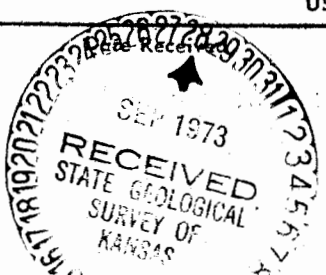
Amount and kind of material used	Depth interval treated
1500 gal of 15% Hydrochloric	5564-68 5542-47 5504-08
Frac. w/10000 gal. 3% gel acid 10,000 # 20-20 sand	" " " "

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
RATE OF PRODUCTION PER 24 HOURS		Oil 27 bbls.	Gas 1,209 MCF	Water bbls.	Gas-oil ratio CFPB
Position of gas (vented, used on lease or sold)				Producing interval(s) 5504-08 5542-47 5564-68	

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, 3330 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 Investors Drilling & Exploration Co., Inc.		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:	
Well No. #1	Lease Name Singley	Gas	
S <u>34</u> T <u>32</u> R <u>31</u> ^E _W			
WELL LOG		SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.	
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.			
FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME
Surface sand and clay	0	300	
Sand & Clay	300	600	
Red bed	600	835	
Sand & shale	836	950	
Sand	1050	1150	
Shale & sand	1150	1500	
anhydrite	1500	1680	
shale	1680	1920	Hugoton 2614
anhydrite & salt	1920	2614	Council Grove 2994
dolomite	2614	2850	Toronto 4300
limestone & shale	2850	4130	Lansing 4407
shale	4130	4200	Marmaton 5029
limestone & shale	4200	5225	Morrowsh. 5516
shale	5225	5360	Miss. 5570
limestone & shale	5360	5500	
sand & shale	5500	5570	
shale & limestone	5570	5718	
sand	5718	5734	
shale	5734	5756	
limestone	5756	6004	
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			



Bill O. Broughton
Signature

President
Title

9-26-73
Date