

State Geological Survey
WICHITA, BRANCH
KANSAS DRILLERS LOG

IMPORTANT
Kans. Geo. Survey request
samples on this well.

API No. 15 — 195 County — 20,298 Number

Operator
Mack Oil Co.

Address 812 Union Center Wichita, Kansas

Well No. #1 Lease Name Howat

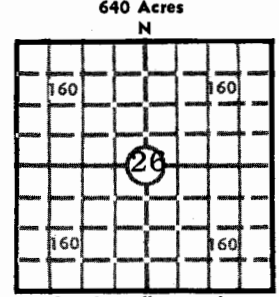
Footage Location
990 feet from (N) (S) line 330 feet from (E) (W) line of SE/4

Principal Contractor Rains & Williamson Geologist Earl Moore

Spud Date 12-9-74 Total Depth 3865' P.B.T.D.

Date Completed 12-18-74 Oil Purchaser

S. 26 T. 11 R. 23 W
Loc. NE SE SE
County Trego



Locate well correctly
Elev.: Gr. 2378'
DF 2381' KB 2383'

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 pipe	12 1/4"	8 5/8"	24#	372'	common	200	2% gel, 3% CC

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

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 Mack Oil Co. DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: dry hole

Well No. 1 Lease Name Howat

s 26 T11 R 23W^E_W

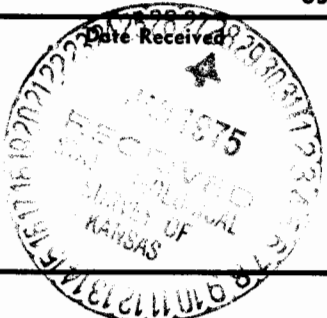
WELL LOG

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
Shale & Rock	0	40	L-GR-N	0' -3865'
Shale & Sand	40	250		
Shale	250	382	Anhydrite	1828 (+ 555)
Shale & Sand	382	1350	Heebner	3598 (-1215)
Sand	1350	1580	Lansing	3638 (-1255)
Red Bed & Shale	1580	1826	B/KC	3846 (-1463)
Anhydrite	1826	1869		
Shale & Shells	1869	2165		
Shale & Lime	2165	3580		
Lime & Shale	3580	3610		
Lime	3610	3865		
		RTD		
DST #1 3650-3700 30"-30"-60"-30" Rec. 130' M, BHP's 650-595# FP's 54-100#				
DST #2 3695-3740 30"-30"-60"-30" Rec. 15' VOCSM & 315' WM&MSW BHP's 716-685# FP's 54-201#				
DST #3 3780-3865 30"-30"-60"-30" Rec. 40' Slightly WM BHP's 1050-935# FP's 52-63#				

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



Nancy Laggart

 Secretary

 Title
 1-7-75

 Date

9623