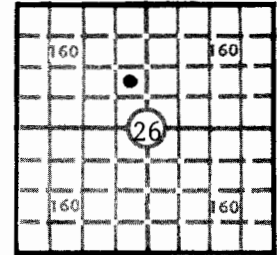


KANSAS WICHITA BRANCH DRILLERS LOG

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

S. 26 T. 8 R. 17W
Loc. NE SE NW

County Rocks
640 Acres
N



Elev.: Gr. 1989'
DF 1991' KB 1994'

API No. 15 — 163 — 20670
County Number

Operator Graham-Michaelis Corp.		
Address P. O. Box 247 Wichita, Kansas 67201		
Well No. #1-26	Lease Name Hrabe	
Footage Location 1650 feet from (N) line 330 feet from (E) line of NW 1/4		
Principal Contractor Red Tiger Drilling Company		Geologist William Sladek
Spud Date July 27, 1977	Total Depth 3460'	P.B.T.D.
Date Completed August 25, 1977	Oil Purchaser Koch Oil Company	

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
To protect fresh water	12 1/4"	8 5/8"	23#	253'	common	160	2% gel, 3% c.c.
Production		4 1/2"	10.5 & 11.6#	3458'	Class A	150	10% salt, 2% gel 3/4 of 1% FR2

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
none			4		3232-3236'
TUBING RECORD					3172-3176'
Size	Setting depth	Packer set at			3186-3188'
2 3/8"	3255.50'	none			

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
500 gals acid	overall

INITIAL PRODUCTION

Date of first production August 25, 1977		Producing method (flowing, pumping, gas lift, etc.) Pumping		
RATE OF PRODUCTION PER 24 HOURS	Oil 65 bbls/day	Gas -	Water none	Gas-oil ratio 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 Graham-Michaelis Corporation		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:
Well No. 1-26	Lease Name HRABE	Oil
S 26 T 8S R 17 W NE SE NW - Rooks County, Kansas		


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
Post Rock	0	195	Petro Log -	Radiation
Shale	195	785		Guard Log
Sand	785	980		Borehole
Red Bed	980	1284		Compensated
Anhydrite	1284	1319		Sonic Log.
Shale	1319	1790		
Shale & Lime Streaks	1790	2032		
Shale	2032	2150		
Shale & Lime	2150	2630		
Lime & Shale	2630	2761		
Shale & Lime	2761	2875		
Lime	2875	3460		
R.T.D.		3460		
<u>DRILL STEM TEST #1 - 3137-3180</u>	<u>DRILL STEM TEST #4 -</u>	<u>3281-3302</u>		
Open 90".	Open 60"			
Rec. 860' gassy muddy oil	Rec: 7' mud			
IFP: 31-187/30"	IFP: 20-20/30"			
FFP: 187-355/60"	FFP: 20-20/30"			
ISIP: 1186/45"	ISIP: 62#/30"			
FSIP: 1186/90"	FSIP: 41#/30"			
<u>DRILL STEM TEST #2 - 3181-3228</u>	<u>DRILL STEM TEST #5 -</u>	<u>3299-3370</u>		
Open 90"	Open 60"			
Rec.: 250' gassy slightly oil cut mud	Rec.: 10' mud			
IFP: 73-114/30 min.	IFP: 57-57#/30"			
FFP: 125-156/60"	FFP: 57-57#/30"			
ISIP: 1061#/45"	ISIP: 365#/30"			
FSIP: 967#/90"	FSIP: 198#/30"			
<u>DRILL STEM TEST #3 - 3230-3240</u>				
Open 90"				
Rec: 915' gas in pipe, 63' clean oil, 477' muddy gassy oil, 10' filtrate water.				
IFP: 47-94/30"				
FFP: 114-208/60"				
ISIP: 708#/45"				
FSIP: 718#/90"				

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

Date Received	 Signature Muriel F. C. Jeram Title Geological Secretary Date November 29, 1977
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