

KANSAS DRILLERS LOG

State of **WICHITA**,
 Drilling

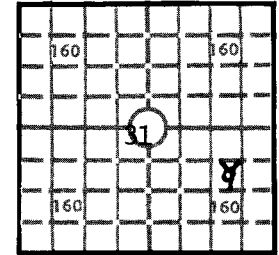
S. 31 T. 7S R. 24 W

API No. 15 — 065 — 21052
 County Number

Loc. SW NE SE

County Graham

640 Acres
N



Locate well correctly
Elev.: Gr. 2408

DF 2411 KB 2413

Operator
Graham-Michaelis Corporation

Address
P. O. Box 247, Wichita, Kansas 67201

Well No. 2-31 SWDW Lease Name Cummings

Footage Location
990 feet from (N) line 990 feet from (E) line

Principal Contractor Red Tiger Drilling Co. Geologist Bill Sladek

Spud Date September 5, 1978 Total Depth 3930 P.B.T.D.

Date Completed September 27, 1978 Oil Purchaser NONE

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 1/2"	8 5/8"	23#	337.60'	common	180	2% gel; 3% cal. chl.
		4 1/2"	10.5#	2130'		550	50-50 pozmix, 6% gel.

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			1		1650-1866 overall

TUBING RECORD

Size	Setting depth	Packer set at
2"	1500'	

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
3000 gals 20% acid.	overall

INITIAL PRODUCTION SALT WATER DISPOSAL WELL

Date of first production _____ Producing method (flowing, pumping, gas lift, etc.) _____

RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio
	bbis.	MCF	bbis.	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. **2-31** Lease Name **Cummings** SWDW

S 31 T 7S R 24 W SW NE SE; Graham 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
Shale	0	70	Petro-Log Radiation Guard Log	
Hard Lime	70	80		
Shale	80	350		
Shale and Red Bed	350	1130		
Shale	1130	1330		
Sand	1330	1420		
Shale	1420	1540		
Shale w/Sand Streaks	1540	1685		
Sand	1685	1873		
Shale	1873	2019		
Red Bed & Shale	2019	2112		
Anhydrite	2112	2143		
Shale	2143	2315		
Shale & Lime Streaks	2315	2575		
Shale & Lime	2575	3071		
Lime	3071	3226		
Lime & Shale	3226	3385		
Lime	3385	3930		
R.T.D.	3930			
Cedar Hills Salt Water Disposal Well 1650' to 1870'				
Drill Stem Test #1 3758-3760' 30"; 45"; 60"; 90".		Drill Stem Test #3 3850-3867 - 30"; 30"; 30"; 30"		
Recovered 1575' salt water IFP: 81-547# FFP 547-861# ISIP 1176' FSIP: 1194'		Recovered: 15' mud, few spks oil IFP: 27-27# FFP: 27-27# ISIP: 493# FSIP: 475#		
Drill Stem Test #2 - 3803-3850 30"; 45"; 60"; 90"		Drill Stem Test #4 3868-3887 - 30"; 30"; 30"; 30"		
Recovered 945' salt water IFP: 27-323# FFP: 323-574# ISIP: 762# FSIP: 753#		Recovered 2' mud IFP: 27-27# FFP: 27-27# ISIP: 36# FSIP: 27#		

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

Date Received	<i>Muriel F. C. Jaram</i>
	Signature
	Geological Secretary
	Title
	August 8, 1980
	Date

DRILLERS LOG

31-7-24W

No. 2-31 Cummings

CASING RECORD:

COMPANY: Graham-Michaelis Corporation

DESCRIPTION:

8 5/8" @ 346'
w/200 sx cement

CONTRACTOR: Red Tiger Drilling Company

C SW/4 NE/4 SE/4
Sec. 31-T7S-R24W

4 1/2" @ 2,115'
w/550 sx cement

COMMENCED: September 6, 1978

Graham County, Kansas

COMPLETED: September 15, 1978

TOTAL DEPTH: 3,930'

ELEVATION: 2,413' KB

<u>FORMATION</u>	<u>FROM</u>	<u>TO</u>	<u>REMARKS</u>
Shale	0	70	
Hard Lime	70	80	
Shale	80	350	
Shale & Red Bed	350	1130	
Shale	1130	1330	
Sand	1330	1420	
Shale	1420	1540	
Sand w/Sand Streaks	1540	1685	
Sand	1685	1873	
Shale	1873	2019	
Red Bed & Shale	2019	2112	
Anhydrite	2112	2143	
Shale	2143	2315	
Shale & Lime Streaks	2315	2575	
Shale & Lime	2575	3071	
Lime	3071	3226	
Lime & Shale	3226	3385	
Lime	3385	3930	
RT		3930	