State Geological Survey
WICHITA, BRANCH

KANSAS DRILLERS LOG

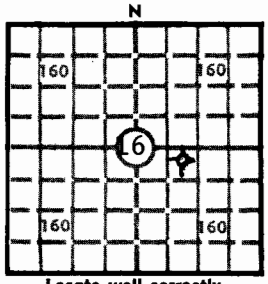
API No. 15 — 101 (County) — 20,202 (Number)

S. 16 T. 16 R. 28 E/W

Loc. C NE NW SE

County Lane

640 Acres
N



Locate well correctly

Elev.: Gr. ~~2594'~~ 2694' DRL 7-6-09

DF 2696' KB 2698'

Operator: Graham-Michaelis Corp.	
Address: P. O. Box 247 Wichita, Kansas 67201	
Well No.: #1-16	Lease Name: Lawrence
Footage Location: 330 feet from (N) ~~(S)~~ line	990 feet from ~~(E)~~ (W) line of SE¼
Principal Contractor: D N B Drilling, Inc.	Geologist: Charles B. Spradlin
Spud Date: December 3, 1976	Total Depth: 4540' / P.B.T.D.: ------
Date Completed: December 14, 1976	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
To protect fresh water supply	12¼"	8 5/8"		208'	common	150	2% Gel, 3% C.C.

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement
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TUBING RECORD

Size	Setting depth	Packer set at
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PERFORATION RECORD

Shots per ft.	Size & type	Depth interval
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ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
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INITIAL PRODUCTION

Date of first production	Producing method (flowing, pumping, gas lift, etc.)
NONE	D&A

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)
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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.

C-10-1972

Operator: Graham-Michaelis Corporation

DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: DRY HOLE

Well No.: 1-16 | Lease Name: Lawrence

S 16 T 16 R 28W (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
Surface Hole	0	208
Sand & Shale	208	740
Shale & Sand	740	1495
Shale	1495	1650
Sand	1650	1885
Shale & Red Bed	1885	2105
Anhydrite	2105	2141
Shale	2141	2549
Lime & Shale	2549	2898
Shale	2898	3270
Lime & Shale	3270	3820
Lime	3820	3920
Lime & Shale	3920	3950
Lime	3950	4540
DRILL STEM TEST #1 3899-3920 Open 30", SI 45", Open 45" S.I. 60" Recovery: 90' muddy wtr w/spots oil IFP 18-35; FFP 52-70; ISIP 992; FSIP 975#		
DRILL STEM TEST #2 3924-3950 Open 30", SI 30", Open 30", SI 30 min Recovery: 40' drilling mud IFP 26-26; FFP 26-26; ISIP 1150; FSIP 1132#		
DRILL STEM TEST #3 4060-4130 Open 30", SI 45", Open 45", SI 60" Recovery: 1250' salt water IFP 18-436; FFP 453-644; ISIP 844; FSIP 836#		
DRILL STEM TEST #4 4132-4145' Open 30", SI 45", Open 45", SI 60" Recovery: 15' clean oil, 10' heavily oil cut mud, 120' slightly oil cut water IFP 18-52; FFP 52-105; ISIP 766; FSIP 766#		
DRILL STEM TEST #5 4152-4294 Open 30", SI 45", Open 45", SI 60" Recovery: 1050' muddy salt water w/scum of oil FP 70-366; FFP 366-592; ISIP 1115; FSIP 1080#		
DRILL STEM TEST #6 4325-4395' Open: 30", SI 30", Open 30", SI 60" Recovery: 10' mud IFP 52-70; FFP 52-70; ISIP 87; FSIP 70#		

NAME	DEPTH
Dresser Atlas Laterolog (Gamma Ray-Neutron)	
DRILL STEM TEST #7 4397-4440 Open: 30", SI 45", Open 45" SI 60" Recovery: 20' sli oil cut mud IFP: 35-44, FFP 44-53, ISIP: 240#, FSIP 107#	

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

Date Received

Muriel F. C. Jeram
Signature

Geological Secretary
Title

December 30, 1976
Date

83695

15-101-20202

16-16-28W

State Geological Survey / DRILLERS' LOG

GRAHAM-MICHAELIS CORPORATION
Lawrence #1-16
NE NW SE, Sec. 16=16-28W
Lane County, Kansas

Elev: 2698 K.B.

Commenced: 12-3-76
Completed: 12-14-76

Surface Casing: 200' of 8-5/8" cemented w/ 150 sx common cement, 2% Gel, 3% cc. 12-3-76

FORMATION	DEPTH
Surface Hole	0 - 208
Sand & Shale	208 - 740
Shale & Sand	740 - 1495
Shale	1495 - 1650
Sand	1650 - 1885
Shale & Red Bed	1885 - 2105
Anhydrite	2105 - 2141
Shale	2141 - 2549
Lime & Shale	2549 - 2898
Shale	2898 - 3270
Lime & Shale	3270 - 3820
Lime	3820 - 3920
Lime & Shale	3920 - 3950
Lime	3950 - 4540

RECEIVED
MAY 16 1977
MAY 18 1977

I do hereby certify that the foregoing statements are true and correct to the best of my knowledge and belief.

D N B DRILLING, INC.

James L. Donelson

JAMES L. DONELSON

STATE OF KANSAS: ss:

Subscribed and sworn to before me this 28th day of December, 1976.

Ella Priess

Ella Priess, Notary Public

ELLA PRIESS
Sedgwick County, Ks.
My Appt. Exp. Aug. 25, 1980