

KANSAS DRILLERS LOG

State Geological Survey
WICHITA BRANCH

S. 19 T. 10 R. 15W E W

API No. 15 — 141 — 20,043
County Number

Loc. N $\frac{1}{2}$ NW SE

Operator
Graham-Michaelis Corporation

County Osborne

Address
211 North Broadway, P.O. Box 247, Wichita, Kansas 67202

Well No. 5-19 Lease Name Locke

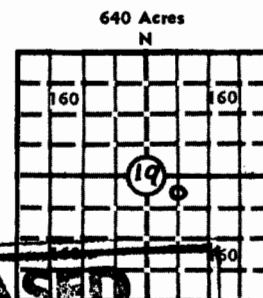
Footage Location
200 feet from (N) line 980 feet from (W) line; SE $\frac{1}{4}$

Principal Contractor
Revlin Drlg., Inc. Geologist
Bill Sladek

Spud Date 7/30/78 Total Depth 3633' P.B.T.D.

Date Completed 8/19/78 Oil Purchaser

RELEASED
APR 30 1982
Date: 2058
FROM CONFIDENTIAL KB 2061'



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 1/4	8 5/8	24#	378'	Common	225	3% c.c. 2% gel.
Production	7 7/8	4 1/2	10 1/2	3629'	Common	175	10% salt

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
2 3/8"	3588'	

ACID, FRACTURE SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
3000 gals 28% acid	

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
Repressuring with salt water					
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.

TO BE HELD CONFIDENTIAL FOR ONE YEAR.

Operator Graham-Michaelis Corporation		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: AUG	
Well No. 5-19	Lease Name Locke	Repressuring with salt water	
s 19 T 10 R 15W 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
Clay-Rock	0	40	Petro-Log Radiation Guard Log Borehole Compensated Sonic
Sand, Clay Shale	40	378	
Shale	378	774	
Shale With Pyrite Iron	774	848	
Shale	848	1246	
Anhydrite	1246	1282	
Shale	1282	1690	
Shale & Lime	1690	1930	
Lime	1930	2135	
Lime & Shale	2135	2250	
Shale & Lime	2250	2460	
Lime & Shells	2460	2610	
Lime & Shale	2610	2720	
Lime	2720	3633	
DST #1 3216-55. Time 30"; 45"; 60"; 90" Rec. 2065' muddy salt water. IFP: 658-809 FFP: 970-1066 ISIP: 1120# FSIP: 1152#			
DST #2 3286-3310. Time 30"; 45"; 60"; 90" Rec. 372' gas; 102' VHOCM(69% oil); 60' of clean oil; 30' of muddy oil (3% water). IFP: 71-71; FFP: 71-83; ISIP: 881; FSIP: 881#			
DST #3 3334-3375. Time. 30"; 45"; 60"; 90". Rec. 1472' of muddy salt water. IFP: 76-239; FFP: 346-605; ISIP: 927#; FSIP: 927#.			
DST #4 3391-3438'. Time. 30"; 45"; 60"; 90". Rec. 320' of muddy salt water. IFP: 65-86; FFP: 130-162#; ISIP: 948#; FSIP: 948#.			
DST #5 3435-3490'. Time 30"; 45"; 60"; 90" Rec. 150' oil cut mud (25% oil), no water. IFP: 54-54; FFP: 86097; ISIP: 948; FSIP: 959.			
DST #6 3586-3619 Time 30"; 30"; 30"; 30" Rec. 15' mud with heavy free oil in tool. IFP: 32-32; FFP: 32-32; ISIP: 184#; FSIP: 76#			
DST #7 3619-3624 Time: 30"; 30"; 30"; 30". Rec. 5' mud, few specks oil. IFP: 32-32; FFP: 32-32; ISIP: 43#; FSIP: 43#.			
DST #8 3624-3629 Time: 30"; 45"; 60"; 90". Rec. 2230' salt water, sli. amount heavy free oil on tool. IFP: 76-616; FFP: 690-1013 ISIP: 1066; FSIP: 1077.			

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

Date Received	Bookkeeper, Revlin Drilg., Inc. Title August 29, 1978 Date
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TO BE HELD CONFIDENTIAL FOR ONE YEAR.

8EPL

43

19-10-15W
JUL

* AFFIDAVIT TO ESTABLISH TEMPORARY PRODUCTIVITY

CO-1

This form must be filed in duplicate within five days after completion of the well:

Two Copies to State Corporation Commission, Conservation Division
245 North Water, Wichita, Kansas 67202

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OPERATOR Graham-Michaelis Corporation COUNTY Osborne

LEASE Locke WELL NO. 5-19

PURCHASER Koch Oil Company

FIELD Natoma East WELL LOCATION CN/2 NW SE

PRODUCING FORMATION Lansing FT. FROM _____ LINE _____

TOTAL DEPTH 3655' FT. FROM _____ LINE _____

PBTD _____ SE/4 SEC. 19 TWP 10S RGE 15W

ACID DATE _____ AMOUNT 3,300 GAL.

TOP PROD. FORM _____ PERCENT OF WATER _____

PROD. PERFS 3297 to 3482 OA PROD. PERFS. _____

SIZE OF CASING 4 1/2" SET AT 3635'

SIZE OF TUBING 2 3/8" SET AT 3588'

SIZE OF PUMP _____ GRAVITY _____

TEST DATE September 13, 1981 HOW PRODUCED Swabbed

OIL PRODUCED 3 BOPH LENGTH OF TEST 4 hours

A F F I D A V I T

STATE Kansas)
COUNTY OF Sedgwick) SS

Jack L. Yinger
HIS OATH, DEPOSES AND SAYS:

OF LAWFUL AGE, BEING FIRST DULY SWORN UPON
Wichita Kansas

THAT HE IS Vice President FOR Graham-Michaelis Corporation
OPERATOR OF THE Locke LEASE, AND IS DULY AUTHORIZED TO MAKE THIS
AFFIDAVIT FOR AND ON BEHALF OF SAID OPERATOR, THAT WELL NO. 5-19 ON SAID
LEASE HAS BEEN COMPLETED AND CAPABLE OF PRODUCING TWENTY FIVE BARRELS OF OIL PER DAY
AS OF THE 13th DAY OF September : 19 81, AND THAT ALL INFORMATION
ENTERED HEREIN WITH RESPECT TO SAID WELL IS TRUE AND CORRECT.

FURTHER AFFIANT SAITH NOT.

GRAHAM-MICHAELIS CORPORATION

(S) Jack L. Yinger

RECEIVED
STATE CORPORATION COMMISSION

SEP 18 1981