

WICHITA BRANCH
KANSAS DRILLERS LOG

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

15-141-20035
Released 4/1/80

CONFIDENTIAL

API No. 15 — 141 — 20,035
County Number

S. 19 T. 10 R. 15 ^E/_W

Loc. A C SW NE

County Osborne

Operator

Graham-Michaelis Corp.

Address

P. O. Box 247 Wichita, Kansas 67201

Well No.

#1-19

Lease Name

Locke

Footage Location

530 feet from ~~NE~~ (S) line 550 feet from (E) (W) line of NE 1/4

Principal Contractor

Red Tiger Drilling Company

Geologist

Donald F. Moore

Spud Date

November 25, 1977

Total Depth

3679'

P.B.T.D.

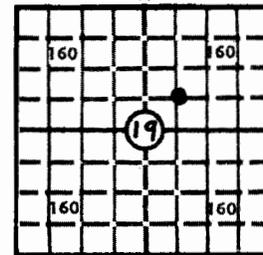
Date Completed

Jan. 5, 1978

Oil Purchaser

Koch Oil Co.

640 Acres



Locate well correctly

Elev.: Gr. 2055'

DF _____ KB _____ 2060'

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		8 5/8"	23#	246'	common	180	2% gel, 3% cal chl.
Production		4 1/2"	10.5#	3678'	common	150	10% salt

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2 shots/ft.		3598-3602' & 3606-3612'

TUBING RECORD

Size	Setting depth	Packer set at
2 3/8"	3638.47'	none

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
3000 gals 15% acid	overall

INITIAL PRODUCTION

Date of first production January 5, 1978		Producing method (flowing, pumping, gas lift, etc.) pumping			
RATE OF PRODUCTION PER 24 HOURS	Oil State Test 53 bbls.	Gas MCF	Water bbls.	Gas-oil ratio CFPB	
Disposition of gas (vented, used on lease or sold)			Producing interval(s) as above		

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.: OIL
Well No. 1-19	Lease Name Locke	
S 19 T 10 S R 15 E W Approx. C SW NE; Sec., Osborne Co., Ks		

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	40		
Shale & Shells	40	250		
Shale	250	525		
Sand	525	562		
Red Bed and Shale	562	690		
Sand	690	776	DRILL STEM TEST #5 3322-3375/90	
Shale	776	795	Rec. 496' GIP & 720' fluid	
Hard Sand	795	798	120' O&GCM	
			600' gassy froggy oil	
Red Bed & Shale	798	1140	IFP 80-206 (30')	
Shale	1140	1239	FFP 206-333 (60")	
Anhydrite	1239	1276	ISIP 932# (45")	
Shale	1276	2275	FSIP 932# (90")	
Shale & Lime	2275	2980	DRILL STEM TEST #6 3375-3405/60	
Lime	2980	3630	Rec. 15' mud. IFP 57-57;	
Lime & Shale	3630	3665	FFP 57-57	
Lime	3665	3679	ISIP 69#; FSIP 69#. All time 30	
R.T.D.	3679	3679	DRILL STEM TEST #7 3405-3425/90	
			Rec. 1200' GIP & 1240' fluid	
			880' clean gassy oil; 360'	
			froggy gassy oil; IFP 69-206/30	
			FFP 229-424 (60") ISIP: 966#/45	
			FSIP 966#/90")	
DRILL STEM TEST #1 2990-3010 /60"	DRILL STEM TEST #4 3268-3322/90"		DRILL STEM TEST #8 4325-46/60"	
Rec. 45' mud	Rec. 670' fluid:		Rec. 40' mud. IFP 69-69; FFP	
IFP: 45-33(30")	490' GIP		69-69; ISIP 527#; FSIP 401#. All	
FFP: 67-78(30")	70' O&GCM		time 30".	
ISIP 958(30")	180' Mud Cut Oil		DRILL STEM TEST #9 3446-3477-	
FSIP 913(30")	420' Gassy froggy oil		Misrun.	
DRILL STEM TEST #2 3155-3185/60"	IFP 92-195(30")		DRILL STEM TEST #10 3446-77/90	
Rec. 30' Drlg. Mud	FFP 195-333(60")		Rec. 120' GIP & 135' slightly	
IFP: 46-46(30")	ISIP 921#(45")		mud cut oil. IFP 34-45(30")	
FFP: 46-46(30")	FSIP 921#(90")		FFP 57-68# (60") ISIP 1011(45")	
			FSIP 1011# (90")	
ISIP 1000#(30")			DRILL STEM TEST #11 3543-3595	
FSIP 932#(30")			60". Rec. 15' mud w/few specks	
DRILL STEM TEST #3 3206-3240/90"	ISIP: 1136#(45")		of oil. IFP 28-28; FFP 28-28;	
Rec. 120' GIP &	FSIP: 1136#(90")		ISIP 45; FSIP 45#. All time 30"	
200' HMCO				
IFP 34-92# (30")				
FFP 92-115# (60")				

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

Date Received	<u>Muriel F. C. Jeram</u> Signature Geological Secretary Title February 22, 1978 Date
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10210L

Graham-Michaelis Corporation
Locke #1-19
Approx. C SW NE; Sec. 19-10S-15W
Osborne County, Kansas

WELL RECORD (CONTINUED)

DRILL STEM TEST #12 -
3595-3615/90"

Rec. 240' slightly mud cut oil and
5' free oil.

IFP 68-68 (30")

FFP 91-91 (60")

ISIP 1011 (45")

FSIP 1033 (90")

DRILL STEM TEST #13
3615-3625/90"

Rec. 240' clean gassy oil

IFP 22-22# (30")

FFP 45-103 (60")

ISIP: 1090# (45")

FSIP: 1090# (90")

DRILL STEM TEST #14
3674-3679/90"

Rec. 2535' salt water

IFP 68-977# (30")

FFP: 1022-1158# (60")

ISIP: 1158# (45")

FSIP: 1158# (90")
