

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: License # 5134
Name Graham-Michaelis Corporation
Address P. O. Box 247
Wichita, Kansas
City/State/Zip 67201

Purchaser Koch Oil Company
Wichita, Kansas

Operator Contact Person Jack L. Yinger
Phone (316) 264-8394

Contractor: License # 5302
Name Red Tiger Drilling Company

Wellsite Geologist Larry Bookless
Phone (316) 793-8837

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
11/9/87 11/20/87 12/11/87
Spud Date Date Reached TD Completion Date
3530' 3490'
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 382 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set DV. tool. 1597 feet
If alternate 2 completion, cement circulated
from feet depth to w/SX cmt

API NO. 15-141-20,236-00-00

County Osborne
100'N & 100'E of East
C. NW/4 Sec. 19 Twp. 10S. Rge. 15W. West

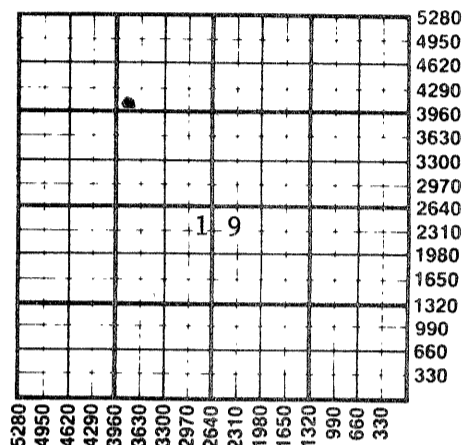
4060 Ft North from Southeast Corner of Section
3860 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Locke Bros. Well # 4-19

Field Name Natoma East

Producing Formation Lansing & Conglomerate

Elevation: Ground 1909' KB 1914'
Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # CD-78,139 C-20,243 Repressuring

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #

Groundwater Ft North from Southeast Corner
(Well) Ft West from Southeast Corner of
Sec Twp Rge East West

Surface Water 4500 Ft North from Southeast Corner
(Stream, pond etc) 4000 Ft West from Southeast Corner
Sec 6 Twp 11S Rge 15 East West

Other (explain) Keith Elliott - Natoma, Kansas
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 apply.

Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Jack L. Yinger
Title Jack L. Yinger, Vice President Date 1/20/88

Subscribed and sworn to before me this 20th day of January 1988
Notary Public Aldine M. Johnson

Date Commission Expires

Aldine M. Johnson
NOTARY PUBLIC
State of Kansas
MY APPT. EXPIRES 3-19-89

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
1-21-88
1988
(Specify)

Sec. 19 Twp. 10. Rge. 15W

SIDE TWO

Operator Name Graham-Michaelis Corporation Lease Name Locke Bros. Well # 4-19

Sec. 19 Twp. 10S Rge. 15W East West County Osborne

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

DST #1 3134-79', 30-45-60-90, 60' gas in pipe, 90' oil & gas cut mud, 120' oil cut muddy water, 180' muddy water. IFP 60-101, FFP 152-193, ISI 518, FSIP 518.
 DST #2 3177-3223, 30-45-60-90, 180' muddy salt water, 780' salt water. IFP 132-264, FFP 355-457, ISI 558, FSI 558.
 DST #3 3241-3289, 60-45-60-60, 60' gas in pipe, 70' oil cut mud. IFP 40-40, FFP 40-40, ISI 203, FSI 376.
 DST #4 3286-3339, 30-45-30-90, 30' mud. IFP 40-40, FFP 40-40, ISI 162, FSI 223.
 DST #5 3438-3472, 30-45-60-90, 150' oil cut watery mud, 240' muddy water. IFP 81-121, FFP 162-193, ISI 345, FSI 355.

Name	Top	Bottom
Topeka	2828	
Heebner	3066	
Toronto	3086	
Lansing	3114	
Base Kansas City	3366	
Conglomerate	3456	
RTD	3530	
LTD	3529	

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
Surface	12 1/4"	8-5/8"	22#	378'	common	225	2% gel, 3% cc
Production	7-7/8"	5-1/2"	15.5#	3529'	common	200	6% gel
DV tool				1597'	common	450	6% gel
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)			Depth
2	3143-3147'			500 gals 28% acid			3143-47'
2	3276-3280'			500 gals 28% acid			3276-80'
2	3458-3460'			250 gals 15% acid			3458-60'
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Producing Method					
December 18, 1987		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio		Gravity	
	25		160			36°	
	Bbls	MCF	Bbls	CFPB			

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease Dually Completed Commingled

3143-3147'
 3276-3280'
 3458-3460'