

ORIGINAL

SIDE ONE

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  
City/State/Zip Wichita, Kansas 67201

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

Contractor: license # N/A  
name Graham-Michaelis Drilling Company

Wellsite Geologist Jack L. Yinger  
Phone

PURCHASER Northern Natural Gas Company

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  
12/7/63 12/23/63 12/30/63  
Spud Date Date Reached TD Completion Date  
5715' N/A  
Total Depth PBD

Amount of Surface Pipe Set and Cemented at 627' feet  
w/500 sacks  
Multiple Stage Cementing Collar Used?  Yes  No  
If Yes, Show Depth Set feet

If alternate 2. completion, cement circulated  
from feet depth to w/ SX cmt.

API NO. 15- N/A 15-025-10090-00-00

County Clark

CW/2 SW SW SE Sec. 3 Twp. 35S Rge. 21W

330' Ft North from Southeast Corner of Section  
2590' Ft West from Southeast Corner of Section  
(Note: locate well in section plat below)

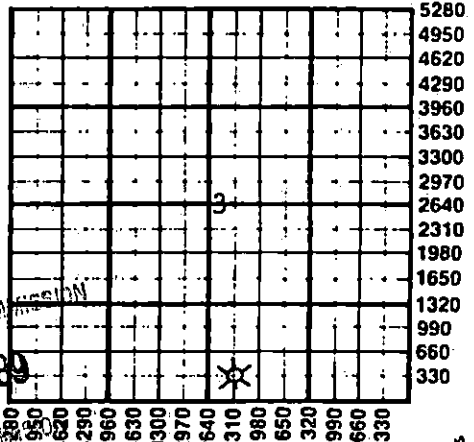
Lease Name Tuttle Well# 1-3

Field Name Harper Ranch

Producing Formation Morrow

Elevation: Ground 1881' KB 1866'

Section Plat



RECEIVED  
STATE CORPORATION COM  
JUL - 0 1989  
CONSERVATION DIVISION  
Wichita, Kansas

WATER SUPPLY INFORMATION

Source of Water:  
Division of Water Resources Permit # N/A  
 Groundwater Ft North From Southeast Corner and  
(Well) Ft. West From Southeast Corner of  
Sec Twp Rge  East  West  
 Surface Water Ft North From Southeast Corner and  
(Stream, Pond etc.) Ft West From Southeast Corner  
Sec Twp Rge  East  West  
 Other (explain)  
(purchased from city, R.W.D.#)

Disposition of Produced Water:  Disposal  Repressuring  
Docket # 89,271-C (C-15,570)

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. Rules 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 6/4/86

Subscribed and sworn to before me this 4th day of June 19 86

Notary Public Aldine M. Johnson  
Date Commission Expires 3-19-89

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 (Specify)

Form ACO-1 (7-84)

Sec. 3 Twp. 35S Rge. 21W

P1

Operator Name Graham-Michaelis Corp. Lease Name Tuttle Well# 1-3 SEC. 3 TWP. 35S RGE. 21W  East  West

**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 5546-5633', open 90 minutes, gas to surface in 3", gas gauge stabilized in 13 minutes to 69 MCF. Recovered 210' gas cut mud. FP 34-68#, ISIP 1452#/30", FSIP 1409#/30".

Name	Top	Bottom
Lansing	4593	(-2707)
Morrow Shale	5553	(-3667)
Morrow Sand	5592	(-3706)
Chester	5670	(-3784)

110

CASING RECORD <input 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 Production				627' 5714'		500 125	
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
shots per foot	specify footage of each interval perforated			(amount and kind of material used)			Depth
	5592-94, 5602-12, 5630-32, 5641-45			Acidized with 1,000 gallons mud acid, frac with 20,000 gallons 7 1/2% acid, 1# sand/gallon.			Listed perfs.
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Producing method					
1/3/64		<input checked="" type="checkbox"/> flowing <input 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		
	Bbls	2,600 MCF	Bbls	CFPB			

Disposition of gas:  vented  sold  used on lease

**METHOD OF COMPLETION**  
 open hole  perforation  other (specify) \_\_\_\_\_  
 Dually Completed.  Commingled

**PRODUCTION INTERVAL**  
 5592-94, 5602-12, 5630-32  
 5641-45