

ORIGINAL

15-033-20765-00-00

12/13/89
12-13-81

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 # 4145
Name Roberts & Murphy, Inc.
Address P. O. Box 7125
Shreveport, Louisiana
City/State/Zip 71107

Purchaser KOCH
Northern Natural

Operator Contact Person Brad Cummings
Phone 318 221-8601

Contractor: License # 5654
Name Rine Drilling

Wellsite Geologist Lee T. Jenkins
Phone 318 221-8601

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

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

DEC 18 1989

WELL HISTORY

Drilling Method:
 Mud Rotary Rotary Cable

.10-27-89.. .11-8-89..... 12-8-89.....
Spud Date Date Reached TD Completion Date

.6500..... .6500.....
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 650 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set. 5500'.....feet
If alternate 2 completion, cement circulated
from 5500'.....feet depth to 4700' w/ 250 SX cmt
Cement Company Name
Invoice #

API NO. 15-033-20765

County Comanche

SE NW SE Sec. 34 Twp. 34S Rge. 20 East West

1425 Ft North from Southeast Corner of Section
1330 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

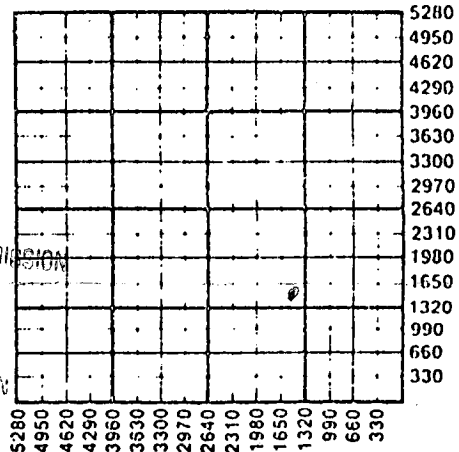
Lease Name Miller Wall # 2-34

Field Name Unnamed

Producing Formation Viola

Elevation: Ground 1719' KB 1731'

Section Plat



RECEIVED
CORPORATION COMMISSION
12-13-1989
DEC 13 1989
CONSERVATION DIVISION
Wichita, Kansas

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # 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..660 Ft North from Southeast Corner
(Stream, pond etc.) 990 Ft West from Southeast Corner
Sec Twp Rge East West

Other (explain).....
(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 J. Brad Cummings
Title Landman Date 12/11/89

Subscribed and sworn to before me this 11th day of December 1989
Notary Public Myrtle A. Oksenholt

Date Commission Expires with life

MYRTLE A. OKSENHOLT, Notary Public
Caddo Parish, Louisiana
My Commission is for Life

1-3-1992
FROM CONFIDENTIAL

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Driller's Time Log Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

Form ACO-1 (7-84)

1110170

Operator Name Roberts and Murphy, Inc. Lease Name Miller Well # 2-34

Sec. 34 Twp. 34S Rge. 20 East West County Comanche

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
 6146 - 6194
 12-60
 IHP 2987
 IFP 2013
 FFP 2189
 FCIP 2469
 FHP 2987
 Rec. Gas
 Temp 136°

Name	Top	Bottom
Heenber	- 4157	
Lansing	- 4348	
Morrow Sh.	- 5160	
Miss.	- 5184	
Viola	- 6160	
Simpson	- 6335	
Arbuckle	- 6460	

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
Conductor	30"	20"					
Surface	10-3/8	8-5/8	24#	651'	Common	450sx	3% CaCl ₂ 1/2# Flocel 13% gel
Production	7-7/8	4-1/2	10.50	6500'	50/50 pox	400sx	10% salt Flocel 8% Gilsomite
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. SPF	6244-6274			None			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production				Producing Method <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	
1 Bbls		750 MCF	0 Bbls		CFPB		

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 6244-6774
 Used on Lease Dually Completed
 Commingled