

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 # 5198  
Name A. Scott Ritchie  
Address 125 N. Market, Suite  
City/State/Zip Wichita, KS 67202

Purchaser Koch Oil Company  
Wichita, Kansas

Operator Contact Person Rocky Milford  
Phone 316/267-4375

Contractor: License # 6033  
Name Murfin Drilling Co

Wellsite Geologist Bob Buffo  
Phone 316/267-4375

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

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

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
11/06/85 11/22/85 12/27/85  
Spud Date Date Reached TD Completion Date  
4735' n/a  
Total Depth PBD

Amount of Surface Pipe Set and Cemented at 432' feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set 2188 feet  
If alternate 2 completion, cement circulated  
from 2188 feet depth to 400' w/ 610 SX cmt  
Cement Company Name Allied Cementing Co  
Invoice # 807

API NO. 15-171-20,312-00-00  
County Scott  
C N/2 NW Sec 9 Twp 19 Rge 33 East  
..... West  
4620 Ft North from Southeast Corner of Section  
3960 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)  
Lease Name H.C. MILLER Well # 1  
Field Name not named Milrich  
Producing Formation Marmaton  
Elevation: Ground 2959' KB 2964'  
Section Plat

PLEASE KEEP THIS  
INFORMATION  
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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.....Ft North from Southeast Corner  
(Stream, pond etc).....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.

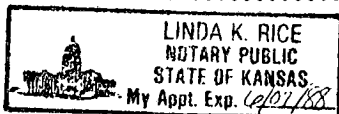
Signature [Signature]

Title Operator Date 1/23/86

Subscribed and sworn to before me this 23rd day of January 1986

Notary Public [Signature]

Date Commission Expires 6/07/88



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

JAN 25 1986  
01-29-86

Operator Name A. Scott Ritchie Lease Name H.C. MILLER Well # 1

Sec. 9 Twp. 19S Rge. 33W East West County Scott

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 [X] Yes [ ] No
Samples Sent to Geological Survey [X] Yes [ ] No
Cores Taken [ ] Yes [X] No

Formation Description [X] Log [ ] Sample

DST #1 from 3650' to 3770' (Middle Topeka) Recovered 540' of oil cut muddy water (10% oil, 37% mud, & 53% water). IFP: 87-206#/30"; ISIP: 1004#/30"; FFP: 249-303#/30"; FSIP: 972#/30".

DST #2 from 3598' to 3638' (Upper Topeka) Straddle test. Recovered 180' of mud, no show of oil (tool slid 12' to bottom). IFP: 99-99#/30"; ISIP: 905#/30"; FFP: 99-99#/30"; FSIP: 861#/30".

DST #3 from 3795' to 3834' (Lower Topeka). Recovered 600' of oil spotted muddy sulphur water. IFP: 99-219#/30"; ISIP: 1002#/30"; FFP: 285-340#/30";

DST #4 from 3870' to 3885' (Toronto). Recovered 2,220' of sulphur water, no show oil. IFP: 450-861#/20"; ISIP: 1056#/30"; FFP: 991-1024#/15"; FSIP: 1056#/30".

Table with 3 columns: Name, Top, Bottom. Lists geological formations such as Anhydrite, Lower Anhy, B/Anhy, Herington, Krider, Tarkio, Topeka, Heebner, Toronto, Lansing, B/KC, Marmaton, Pawnee, Ft. Scott, Cher. Sh., Morrow sh., Upper Mo.sd., Lower Mo.sd., Basal sd., Miss., LTD.

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CASING RECORD [X] New [ ] Used LTD Report all strings set-conductor, surface, intermediate, production, etc.

Table with 8 columns: 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. Includes data for Surface and Production strings.

PERFORATION RECORD Table with 3 columns: Shots Per Foot, Specify Footage of Each Interval Perforated, Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used), Depth. Includes entry for 2 SSB at 4382' to 4387'.

TUBING RECORD Size Set At Packer at Liner Run [ ] Yes [ ] No FROM CONFIDENTIAL

Date of First Production Producing Method [ ] Flowing [X] Pumping [ ] Gas Lift [ ] Other (explain)

Table with 6 columns: Oil, Gas, Water, Gas-Oil Ratio, Gravity. Estimated Production Per 24 Hours: Oil 23 Bbls, Gas MCF, Water 60 Bbls, Gas-Oil Ratio CFPB.

METHOD OF COMPLETION Production Interval

Disposition of gas: [ ] Vented [ ] Sold [ ] Used on Lease [ ] Open Hole [X] Perforation [ ] Other (Specify) 4382'-87' [ ] Dually Completed [ ] Commingled

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15-171-20312-00-00

SIDE TWO (Page Two)

ACO-1 WELL HISTORY

OPERATOR A. SCOTT RITCHIE LEASE NAME H.C. MILLER SEC. 9 TWP. 19 RGE. 33

FILL IN WELL LOG AS REQUIRED:

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
DST #5 from 3898' to 3916' (Lansing "A" zone). Recovered 1140' of sulphur water with a few spots of oil. IFP:43-368#/30"; ISIP:961#/30"; FFP:390-519#/30"; FSIP:940#/30".				
DST #6 from 3958' to 4012' (L/KC "D" & "E" zones). Recovered 70' of watery mud with a few spots of oil in tool. IFP:66-66#/30"; ISIP:1067#/45"; FFP:99-99#/30"; FSIP:1045#/45".				
DST #7 from 4123' to 4164' (L/KC "I" zone). Recovered 330' of sulphur water with a few oil spots in tool. IFP:77-121#/30"; ISIP:1142#/45"; FFP:175-186#/30"; FSIP:1121#/45".				
DST #8 from 4189' to 4208' (L/KC "J" zone). Recovered 1680' of sulphur water with a few spots of oil. IFP:186-569#/15"; ISIP:1185#/30"; FFP:677-786#/15"; FSIP:1185#/30".				
DST #9 from 4320' to 4352' (Marmaton). Recovered 30' of oil spotted mud. IFP:66-66#/45"; ISIP:450#/45"; FFP:66-66#/45"; FSIP:132#/45".				
DST #10 from 4356' to 4395' (Lower Marmaton). Recovered 1,000' of gassy frothy oil (10% gas, 69% oil, 5% mud, 16% water). IFP:143-296#/15"; ISIP:1131#/30"; FFP:395-461#/15"; FSIP:1131#/30".				
DST #11 from 4519' to 4564' (Cherokee). Recovered 20' of mud with a few specks of oil in the tool. IFP:55-55#/30"; ISIP:66#/30"; FFP:66-66#/30"; FSIP:66#/30".				
DST #12 from 4624' to 4663' (Upper Moxlow sand). Recovered 365' of muddy water, few spots of oil in tool. IFP:66-121#/45"; ISIP:1207#/45"; FFP:164-186#/45"; FSIP:1207#/45".				

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FEB 02 1986  
State Geological Survey  
WICHITA BRANCH

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RELEASED  
APR 17 1987  
FROM CONFIDENTIAL

JAN 29 1985

15-171-20312-0000

# WELL LOG

**COMPANY** A. Scott Ritchie  
125 N. Market, Suite 950  
Wichita, KS 67202

SEC. 9 T. 19S R. 33W  
LOC. N/2 NW

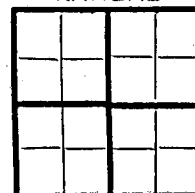
**FARM** H.C. Miller NO. 1

**RIG. NO.** 2

**TOTAL DEPTH** 4735'

COUNTY Scott  
KANSAS

**COMM.** 11-06-85 **COMP.** 11-24-85



**CONTRACTOR** Murfin Drilling Company  
250 N. Water, Suite 300  
Wichita, KS 67202

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**CASING**

20 10 -5/8" set @ 432' w/300 sx 60/40 Poz, 2% Gel, 3% CC.  
15 8  
12 6  
13 5

4-1/2" set @ 4717' w/325 sx 60/40 Poz, 10% Salt + 560 sx 50/50 Poz, 6% Gel.

FIGURES INDICATE BOTTOM OF FORMATIONS

Clay & Sand	130'
Shale	432'
Shale & Sand	1732'
Sand	1882'
Shale & Sand & Anhydrite	2250'
Shale & Lime (RTD)	4735'

FEB 03 1986

State Geological Survey  
WICHITA BRANCH

DEPT. OF GEOLOGY

RELEASED

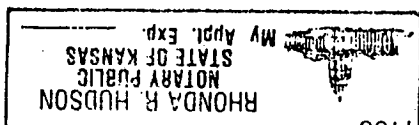
APR 17 1987

FROM CONFIDENTIAL

State of KANSAS  
County of SEDGWICK } ss:

I, Robert A. Ramseyer, Jr. of the Murfin Drilling Company

upon oath state that the above and foregoing is a true and correct copy of the log of the H.C. Miller #1 well.



Robert A. Ramseyer, Jr. Agent for Operator

Subscribed and sworn to before me this 29th day of November 19 85

My Commission Expires: 11-18-87

Rhonda R. Hudson  
NOTARY PUBLIC  
Rhonda R. Hudson

JAN 24 1986