

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 1000  
City/State/Zip Wichita, KS 67202

Purchaser Koch Oil Company

Operator Contact Person Galen Babcock  
Phone (316) 267-4375

Contractor: License # 6033  
Name Murfin Drilling Co.

Wellsite Geologist Larry Zink  
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  
9/11/85 9/18/85 10/9/85  
Spud Date Date Reached TD Completion Date  
3880' RTD n/a  
Total Depth PBD

Amount of Surface Pipe Set and Cemented at 260 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set 1849 feet  
If alternate 2 completion, cement circulated  
from 1849 feet depth to surface w/ 400 SX cmt  
Cement Company Name Allied Cementing Co.  
Invoice # 40459

API NO. 15-065-22,232-00-00  
County Graham  
SW NE SE 7 6S 21 East  
Sec Twp Rge X West

1650 Ft North from Southeast Corner of Section  
990 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Lease Name Voss Well # 2

Field Name Boys South

Producing Formation Lansing

Elevation: Ground 2201' KB 2206'  
Section Plat

PLEASE KEEP THIS  
INFORMATION  
CONFIDENTIAL

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.

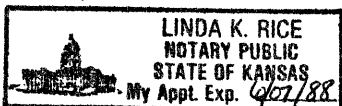
Signature [Signature]

Title Operator Date 12/12/85

Subscribed and sworn to before me this 12th day of Dec 1985

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)

STATE CORP COM

DEC 12-17-85

Operator Name A. Scott Ritchie Lease Name Voss Well # 2

Sec. 7 Twp. 6S Rge. 21  East  West County Graham

WELL LOG

**PLEASE KEEP THIS INFORMATION CONFIDENTIAL**  
 INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests, interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure, hydrostatic level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if on 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 from 3344' to 3387' (Lower Topeka). Recovered 1255' of clean gassy oil and 435' of gas in pipe.  
 IFP:183-316#/15"; ISIP:1115#/30";  
 FFP:480-469#/15"; FSIP:1104#/30".

DST #2 from 3393' to 3457' (Toronto and Top Zone). Recovered 150' of gas in pipe and 150' of mud cut oil.  
 IFP:81-112#/30"; ISIP:1166#/45";  
 FFP:112-122#/30"; FSIP:1146#/45".

DST #3 from 3456' to 3477' (35' zone). Recovered 60' of gas in pipe, 3' of free oil, 50' of oil cut mud, and 120' of muddy water. IFP:40-81#/30"; ISIP:173#/45";  
 FFP:81-102#/30"; FSIP:183#/45".

DST #4 from 3476' to 3500' (50' zone). Recovered 150' of oil cut mud. IFP:61-91#/30"; ISIP:920#/45";  
 FFP:91-102#/30"; FSIP:622#/45".

Name	Top	Bottom
Anhydrite	1848'	(+ 358)
B/Anhydrite	1880'	(+ 326)
Topeka	3161'	(- 955)
Heebner	3395'	(-1189)
Toronto	3420'	(-1214)
Lansing	3437'	(-1231)
B/KC	3625'	(-1419)
Gr. Wash.	3679'	(-1473)
LTD	3681'	(-1475)

**PLEASE KEEP THIS INFORMATION CONFIDENTIAL**  
**RELEASED**  
 FEB 16 1987  
 2-16-87  
**FROM CONFIDENTIAL**

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 Production	12 1/8"	8-5/8"	23#	260'	quickset	175	2% gel, 3% CC
	7-7/8"	5 1/2"	14#	3678'	poznix	150	10% gel, 1% gilsonite
							& 20 bbls. of preflush
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
1- 3/8"	At 3590' and 3581 1/2'			Acidized w/1200 gal. of 28%		3590' & 3581 1/2'	
2 SSB jets	3590' - 3594' : 3581' - 3585'			Acidized w/600 gal. of 28%		3559' - 62'	
"	3559' - 3562' : 3496 1/2' - 3499'			Acidized w/2150 gal. of 28%		3420' - 99'	
"	3483' - 3487' : 3438' - 3441'						
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....						
10/9/85							
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity		
	75 Bbls	MCF	22.0 Bbls	CFPB			

METHOD OF COMPLETION Production Interval

Disposition of gas:  Vented  Open Hole  Perforation 3438' - 3594'  
 Sold  Other (Specify) .....  
 Used on Lease  Dually Completed .....  
 Commingled .....

OPERATOR A. Scott Ritchie LEASE NAME Voss #2 SEC. 7 TWP. 6S RGE. 21W (E) (W)

**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
<p>(CONTINUED FROM PAGE 1)</p> <p>DST #5 from 3540' to 3604' (140', 160', 180' zones). Recovered 70' of oil cut mud. IFP:51-61#/30"; ISIP:1012#/45"; FFP:71-81#/30"; FSIP:1002#/45".</p> <p>DST #6 from 3598' to 3634' (200' and 220' zones). Recovered 3' of mud, few specks of oil. IFP:30-30#/30"; ISIP:61#/30"; FFP:30-30#/30"; FSIP:40#/30".</p> <p>DST #7 from 3506' to 3534' (90' zone) with straddle packers. Recovered 65' of mud, no show of oil. IFP:40-51#/30"; ISIP:950#/30"; FFP:61-71#/30"; FSIP:930#/30".</p>				

**CONFIDENTIAL**

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DEC 20 1985  
State Geological Survey  
WICHITA BRANCH

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

**RELEASED**

**FEB 16 1987**

**FROM CONFIDENTIAL**

STATE GEOLOGICAL SURVEY

DEC 1 1985

STATE GEOLOGICAL SURVEY

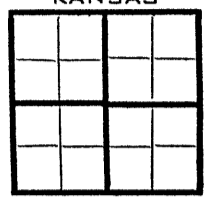
15-065-22232-00-00

# WELL LOG

**COMPANY** A. Scott Ritchie  
 125 N. Market, Suite 950  
 Wichita, KS 67202  
**FARM** Voss NO. 2  
**RIG. NO.** 16  
**TOTAL DEPTH** 3680'  
**COMM.** 09-11-85 **COMP.** 09-18-85  
**CONTRACTOR** Murfin Drilling Company  
 250 N. Water, Suite 300  
 Wichita, KS 67202

SEC. 7 T. 6S R. 21W  
 LOC. SW NE SE

COUNTY Graham KANSAS



**CONFIDENTIAL**

**CASING**  
 10  
 15 8 -5/8" set @ 260' w/175 sx Common, 2% Gel, 3% LIGN  
 12 6  
 13 5 -1/2" set @ 3678' w/150 sx 60/40 Poz, 10% Salt PRODUCTION

FIGURES INDICATE BOTTOM OF FORMATIONS

Soil & Sand & Clay 80'  
 Shale 261'  
 Shale & Sand 1850'  
 Anhydrite 184'  
 Shale 180'  
 Shale & Lime 3680'

DEC 2 1985  
 State Geological Survey  
 WICHITA BRANCH

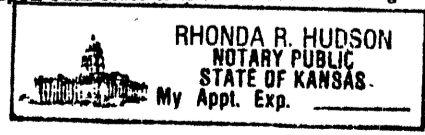
OCT 11 1985

**RELEASED**  
 FEB 16 1987  
 FROM CONFIDENTIAL

State of KANSAS  
 County of SEDGWICK

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 Voss #2 well.



Robert A. Ramseyer, Jr., Agent for Operator

Subscribed and sworn to before me this 7th day of October 19 85

My Commission Expires: 11-18-87

Rhonda R. Hudson  
 NOTARY PUBLIC

DEC 17 1985  
 12-17-85

15-065-22232-00-00

STATE CORPORATION COMMISSION OF KANSAS, CONSERVATION DIVISION

PRODUCTIVITY TEST  
BARREL TEST

1650 N  
990 W

OPERATOR A Scott Ritchie LOCATION OF WELL 9 W-NE-SE

LEASE Koss OF SEC. 7 T 6 R 21

WELL NO. 2 COUNTY Graham

FIELD Boys. South PRODUCING FORMATION LKC

Date Taken 10-24-86 Date Effective 12-1-86

Well Depth 3880 Top Prod. Form 3738 Perfs 3590-3438

Casing: Size 5 1/2 Wt. \_\_\_\_\_ Depth 3678 Acid 3950-9-30-85

Tubing: Size 2 7/8 Depth of Perfs 3635 Gravity 37.8 @ 60

Pump: Type Insert-2 1/2 Bore 2 1/2 X 1 1/2 X 12 Purchaser Koch

Well Status Pumping  
Pumping, flowing, etc.

TEST DATA

Permanent  Field \_\_\_\_\_ Special \_\_\_\_\_

Flowing \_\_\_\_\_ Swabbing \_\_\_\_\_ Pumping

STATUS BEFORE TEST:

PRODUCED 24 HOURS

SHUT IN 0 HOURS

DURATION OF TEST \_\_\_\_\_ HOURS 21 MINUTES 30 SECONDS

GAUGES: WATER 9 3/4 INCHES 39 PERCENTAGE

OIL 15 1/4 INCHES 61 PERCENTAGE

GROSS FLUID PRODUCTION RATE (BARRELS PER DAY) 66

WATER PRODUCTION RATE (BARRELS PER DAY) 25

OIL PRODUCTION RATE (BARRELS PER DAY) 41 PRODUCTIVITY

STROKES PER MINUTE 9

LENGTH OF STROKE 54 INCHES

REGULAR PRODUCING SCHEDULE 24 HOURS PER DAY.

COMMENTS Initial Test.

WITNESSES:

FOR STATE

FOR OPERATOR

FOR OFFSET

NOV 5 1986