

RELEASED

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM

Form ACO-1  
September 1999  
Form Must Be Typed

WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 4767  
Name: Ritchie Exploration, Inc.  
Address: P.O. Box 783188  
City/State/Zip: Wichita, KS 67278-3188  
Purchaser: NCRA/Tengasco  
Operator Contact Person: John C. Niernberger  
Phone: (316) 691-9500  
Contractor: Name: \_\_\_\_\_  
License: \_\_\_\_\_

**CONFIDENTIAL**

**KCC**

**MAY 12 2003**

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**RECEIVED**

Wellsite Geologist: \_\_\_\_\_  
Designate Type of Completion:  
\_\_\_\_ New Well \_\_\_\_ Re-Entry  Workover  
 Oil \_\_\_\_ SWD \_\_\_\_ SLOW \_\_\_\_ Temp. Abd.  
 Gas \_\_\_\_ ENHR \_\_\_\_ SIGW  
\_\_\_\_ Dry \_\_\_\_ Other (Core, WSW, Expl., Cathodic, etc)

**KCC WICHITA**

If Workover/Re-entry: Old Well Info as follows:  
Operator: Ritchie Exploration, Inc.  
Well Name: Gottschalk  
Original Comp. Date: 3-15-1972 Original Total Depth: 3450'  
\_\_\_\_ Deepening  Re-perf. \_\_\_\_ Conv. to Enhr./SWD  
 Plug Back 3394' Plug Back Total Depth  
\_\_\_\_ Commingled Docket No. \_\_\_\_\_  
\_\_\_\_ Dual Completion Docket No. \_\_\_\_\_  
\_\_\_\_ Other (SWD or Enhr.?) Docket No. \_\_\_\_\_

1/21/03 2/5/03  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 051-20,766 - 0003  
County: Ellis  
\_\_\_\_ NW \_\_\_\_ NE \_\_\_\_ SE Sec. 36 Twp. 15 S. R. 18  East  West  
2970 feet from S / (N) (circle one) Line of Section  
2310 feet from (E) / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) (NE) SE NW SW  
Lease Name: Gottschalk Well #: 1  
Field Name: Gottschalk  
Producing Formation: Topeka, L/KC  
Elevation: Ground: 1891' Kelly Bushing: 1896'  
Total Depth: 3450' Plug Back Total Depth: 3394'  
Amount of Surface Pipe Set and Cemented at 1047 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan Whichever W B.S. 05  
(Data must be collected from the Reserve Pit)  
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used \_\_\_\_\_  
Location of fluid disposal if hauled offsite:  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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 geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. 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: Production Manager Date: 5/12/03  
Subscribed and sworn to before me this 12th day of May,  
2003  
Notary Public: Karen Hopper  
Date Commission Expires: \_\_\_\_\_

**KAREN HOPPER**  
Notary Public - State of Kansas  
My Appt. Expires 10/27/03

**KCC Office Use ONLY**  
 Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
N Wireline Log Received  
N Geologist Report Received  
\_\_\_\_ UIC Distribution

X

Operator Name: Ritchie Exploration, Inc. Lease Name: Gottschalk Well #: 1  
 Sec. 30 Twp. 15 S. R. 18  East  West County: Ellis

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all **INTERVALS** of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure or static pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy)

List All E. Logs Run:

**RA Guard Log**

<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Anhydrite	1039'	+857
Topeka	2841'	-945
Heebner	3126'	-1230
Toronto	3146'	-1250
Lansing	3176'	-1280

CASING RECORD <input type="checkbox"/> New <input checked="" 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	# Sacjs Used	Type and Percent Additives
surface	12 1/4"	8 5/8"	28#	1047'		475	
production	7 7/8"	5 1/2"	14#	3445'		225	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input checked="" type="checkbox"/> Plug Off Zone	1267-1298	common	40	1/03
	3068-3084	common	100	2/03

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	2896-2905 (Topeka)	750 gals, 15% MCA	
	3200-3371.5 (L/KC)	Total 2850 gals	
4	3068-72 & 3078-84 (Oread)	750 gals acid	
	CIBP @ 3214 - drilled out 2/03		

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	33374'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.			Producing Method		
			<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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0.15	41	40	273:1	

Disposition of Gas  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval CO 050302 RSP/kcc