

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

RECEIVED

Form ACO-1
September 1999
Form Must Be Typed

OCT 25 2002

KCC WICHITA

ORIGINAL

Operator: License # 4767 **CONFIDENTIAL**
 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 **KCC**
 Contractor: Name: _____
 License: _____ **OCT 24 2002**
 Wellsite Geologist: _____ **CONFIDENTIAL**
 Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:
 Operator: Ritchie Exploration, Inc.
 Well Name: Gottschalk
 Original Comp. Date: 1/72 Original Total Depth: 3450'
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back 3214' Plug Back Total Depth _____
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____
 7/8/02 8/14/02
 Spud Date or Date Reached TD Completion Date or
 Recompletion Date Recompletion Date

API No. 15 - 051-20,766-00-02
 County: Ellis
NV-NV-SE Sec. 36 Twp. 15 S. R. 18 East West
2970 feet from S (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: L/KC
 Elevation: Ground: 1891' Kelly Bushing: 1896'
 Total Depth: 3450' Plug Back Total Depth: 3214'
 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 *Workover Ev 11-4-02*
 (Data must be collected from the Reserve Pit)
 Chloride content _____ ppm Fluid volume _____ bbls
 Dewatering method used _____
 Location of fluid disposal if hauled offsite: **RELEASED**
 Operator Name: _____
 Lease Name: _____ License No.: **JAN 04 2005**
 Quarter _____ Sec. _____ Twp. _____ East West
 County: _____ Docket No.: **FROM CONFIDENTIAL**

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: 10/24/02
 Subscribed and sworn to before me this 24th day of October, 2002
 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: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

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 cores. Report all final copies of drill stems 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 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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes No	Log	Formation (Top), Depth and Datum	Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes No	Name	Top	Datum
Cores Taken	Yes <input checked="" type="checkbox"/> No	Anhydrite	1039'	+857
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes No	Topeka	2841'	-945
List All E. Logs Run:		Heebner	3126'	-1230
RA Guard Log		Toronto	3146'	-1250
		Lansing	3176'	-1280

CASING RECORD 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	# Sacks 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 type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

NEW

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	3200'-3204'	600 gals 15% HCL	
	cast iron bridge plug @ 3214'		
	3218-23,3270-74,3308-11,3334-40	1500 gals 28% HCL&750 gals 15% HCL	
	cast iron bridge plug @ 3394'		
	open-hole @ 3445-50		

TUBING RECORD		Size	Set At	Packer At	Liner Run	Yes	<input checked="" type="checkbox"/> No
		2 3/8"	3166'	3166'			
Date of First, Resumed Production, SWD or Enhr.			Producing Method				
8/14/02			<input checked="" type="checkbox"/> Flowing		<input type="checkbox"/> Pumping	<input type="checkbox"/> Gas Lift	<input type="checkbox"/> Other <i>(Explain)</i>
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		
	0.15	500	3.5	3333:1			

Disposition of Gas METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled _____

(If vented, Sumit ACO-18.) Other *(Specify)* _____

CONFIDENTIAL

ORIGINAL

Ed Gottschalk
17 NW SE Sec. 36-155-18W
Ellis County, Kansas

Elevation: 1891' GL 1896' KB

10-15-71

DST #1 from 3123' - 3204'

Open 15", shut in 30", open 45", shut in 30"

Gas to surface in 2". In 10 min. gauged	1,790 MCF
20 min. "	2,060 MCF
30 min. "	2,310 MCF
40 min. "	2,530 MCF
50 min. "	2,530 MCF
60 min. "	2,530 MCF

Recovered 350' frothy oily gas cut mud, 120' heavy mud cut oil and 45' oil.

IBHP: 1180#; IFF: 579#; FFP: 579#; FBHP: 1157#; BHT: 103°

10-16-71

DST #2 From 3208' - 3229'

Open 15", shut in 30", open 45", shut in 30"

Gas to surface in 6 min. - too small to measure.

Recovered 2100' oil.

IBHP: 867#; IFF: 100#; FFP: 312#; FBHP: 812#; BHT: 104°

DST #3 From 3228' - 3256'

Open 15", shut in 30", open 45", shut in 30". Gas to surface in 2 min.

In 10 min. gauged	734 MCF
20 min. "	734 MCF
30 min. "	734 MCF
40 min. "	734 MCF
50 min. "	734 MCF
60 min. "	686 MCF

Recovered 200' slightly oil and gas cut watery mud, 20% water.

IBHP: 1146#; IFF: 78#; FFP: 145#; FBHP: 1034#; BHT: 105°

10-17-71

DST #4 From 3259' - 3275'

Open 30", shut in 30", open 30", shut in 30" Good blow.

Recovered 220' heavily mud cut oil.

IBHP: 1124#; IFF: 22#; FFP: 78#; FBHP: 1113#; BHT: 107°

10-18-71

DST #5 From 3295' - 3323'

Gas to surface in 20". Strong steady blow.

Recovered 900' muddy oil. Flow pressures & bottom hole pressures failed.

10-18-71

DST #6 From 3347' - 3360'

Open 30", shut in 30", open 30", shut in 30". Blew 7 min. and died.

Recovered 5' slightly oil cut mud.

IBHP: 33#; IFF: 22#; FFP: 22#; FBHP: 33#; BHT: 112°

Base Kansas City 3402' (-1506)

10-19-71

Arbuckle

3434' (-1538) 3' high to #1 Worth

DST #7 From 3432' - 3440'

Gas to surface in 2 min. First open gauged	2,310 MCF in 10 min.
	1,690 MCF in 20 min.
	1,450 MCF in 25 min.
Second open gauged	734 MCF in 10 min.
	310 MCF in 30 min.
	155 MCF in 50 min.

too small to measure - 60 min.

Recovered 10' thin mud. Gas would not burn

IBHP: 363#; IFF: 513#; FBHP: 67#; FFP: 22#

10-20-71

DST #8 From 3440' - 3450'

Gas to surface in 5 min. - too small to measure. Gas would burn.

In one hour recovered 200' clean oil and 220' muddy oil.

IBHP: 923#; IFF: 67#; FBHP: 756#; FFP: 134#; BHT: 115°

Ran Gamma Ray Neutron Guard Caliper Log to Total Depth - 3450'.

DST #9 Straddle test on the 200' Lansing - Kansas City Zone

Zone looked like a good possibility on log. From 3358' - 3380'.

Weak blow for 50 minutes. Recovered 25' slightly oil specked mud

5' heavy oil cut mud.

IBHP: 34#/45"; FBHP: 34#; IFF: 22#; FFP: 22#

DST #10 Hook wall test from 3048' - 3084' in Topeka

Gas to surface in 2 minutes. Gauged 772 MCF in 30"

887 MCF in 60"

IBHP: 1113#/30"; FBHP: 1113#/30"; IFF: 179#; FFP: 210#

Reset hook wall for DST #11 from 2956' - 2992'.

Fair blow decreasing to weak blow. Recovered 70' gas cut mud and

120' gas cut water.

IBHP: 890#/30"; FBHP: 823#/30"; IFF: 67#; FFP: 101#

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KCC WICHITA

KCC

OCT 24 2002

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JAN 04 2005

FROM CONFIDENTIAL