

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

ORIGIN

API NO. 15- 135-23,546 0001

County Ness
ADD' E 1/4 & 400'
SW 1/4 - Sec. 26 Twp. 16 Rge. 22W

Operator: License # 4767
Name: Ritchie Exploration, Inc.
Address 125 N. Market, Suite 1000
Wichita, KS 67202

400 Feet from S/N (circle one) Line of Section
3040 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE NW or SW (circle one)

City/State/Zip _____
Purchaser: Koch

Lease Name F. Ummel Well # 4
Field Name Brownell South

Operator Contact Person: A. Scott Ritchie III
Phone (316) 267-4375

Producing Formation Cherokee
Elevation: Ground 2398 KB 2403

Contractor: Name: _____
License: _____

Total Depth 4450' PBTD na
Amount of Surface Pipe Set and Cemented at _____ Feet

Wellsite Geologist: _____
Designate Type of Completion
____ New Well ____ Re-Entry X Workover

Multiple Stage Cementing Collar Used? ____ Yes ____ No
If yes, show depth set _____ Feet

X Oil ____ SWD ____ SIOW ____ Temp. Abd.
____ Gas ____ ENHR ____ SIGW
____ Dry ____ Other (Core, WSW, Expl., Cathodic, etc)

If alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

If Workover/Re-Entry: old well info as follows:
Operator: Ritchie Exploration, Inc.

Drilling Fluid Management Plan DLR 2 4-22-93
(Data must be collected from the Reserve Pit)

Well Name: #4 F. Ummel
Comp. Date 2-28-91 Old Total Depth 4450'

Chloride content _____ ppm Fluid volume _____ bbls
Dewatering method used _____

____ Deepening X Re-perf. ____ Conv. to Inj/SWD
____ Plug Back _____ PBTD
____ Commingled _____ Docket No. _____
____ Dual Completion _____ Docket No. _____
____ Other (SWD or Inj?) _____ Docket No. _____

Location of fluid disposal if hauled offsite:
Operator Name _____

11-23-92 11-28-92
Spud Date Date Reached TD Completion Date

Lease Name _____ License No. _____
____ Quarter Sec. ____ Twp. ____ S Rng. ____ E/W
County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 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 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 President Date 4-14-93

Subscribed and sworn to before me this 14th day of April 19 93.

Notary Public [Signature]

Date Commission Expires _____

LISA THIMMESCH
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 8-29-95

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Received
C Wireline Log Received
C Geologist Report Received
Distribution
KCC
KGS
SWD
Plug
RECEIVED
STATE CORPORATION COMMISSION
APR 15 1993
OBSERVATION DIVISION
Wichita, Kansas

Operator Name Ritchie Exploration, Inc. Lease Name F. Ummel Well # 4
 Sec. 26 Twp. 16 Rge. 22W East County Ness
 West

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

Log Formation (Top), Depth and Datum Sample
 Name Top Datum

List All E.Logs Run:

CASING RECORD

New 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

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			

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	
	3	Upper Cherokee	4302-4309	1000 gal. 15% demulsion w/20 gal Acetic, 2 gal detergent, 5 gal iron sequester, and 2 gal clay stabilizer

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 7/8"			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj.	Producing Method
11-28-92	<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
	22.55		2.50		

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 _____