

FORM MUST BE TYPED

CONFIDENTIAL

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

API NO. 15- 15-195-20,866 <sup>0001</sup>  
County Trego ORIGINAL

Operator: License # 4767

NE - SE - SE - Sec. 8 Twp. 11 Rge. 22W <sup>E</sup> <sub>W</sub>

Name: Ritchie Exploration, Inc.

330 Feet from S (circle one) Line of Section

Address 125 N. Market, Suite 1000

990 Feet from E (circle one) Line of Section

City/State/Zip Wichita, KS 67202

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

Purchaser: N.C.R.A.

Lease Name Custer "A" Well # 1

Operator Contact Person: Lisa Thimmesch

Field Name \_\_\_\_\_

Phone ( 316 ) 267-4375

Producing Formation Marmaton, L/KC, Lecompton

Contractor: Name: \_\_\_\_\_

Elevation: Ground 2197' KB \_\_\_\_\_

License: \_\_\_\_\_

Total Depth 3777' PSTD na

Wellsite Geologist: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at \_\_\_\_\_ Feet

Designate Type of Completion  
\_\_\_\_ New Well \_\_\_\_ Re-Entry X Workover

Multiple Stage Cementing Collar Used? \_\_\_\_ Yes \_\_\_\_ No

X Oil \_\_\_\_ SWD \_\_\_\_ S10W \_\_\_\_ Temp. Abd.  
\_\_\_\_ Gas \_\_\_\_ ENHR \_\_\_\_ S10V  
\_\_\_\_ Dry \_\_\_\_ Other (Core, WSW, Expl., Cathodic, etc)

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt

If Workover/Re-Entry: old well info as follows:

Drilling Fluid Management Plan 10-893  
(Data must be collected from the Reserve Pit)

Operator: Ritchie Exploration, Inc.

Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls

Well Name: Custer "A" #1

Dewatering method used \_\_\_\_\_

Comp. Date 9/81 Old Total Depth 3909'

Location of fluid disposal if hauled offsite: \_\_\_\_\_

\_\_\_\_ Deepening X Re-perf. \_\_\_\_ Conv. to Inj/SWD  
\_\_\_\_ Plug Back \_\_\_\_ PSTD  
X Commingled Docket No. \_\_\_\_\_  
\_\_\_\_ Dual Completion Docket No. \_\_\_\_\_  
\_\_\_\_ Other (SWD or Inj?) Docket No. \_\_\_\_\_

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

5-24-93 5-28-93

Quarter 4 Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

Spud Date Date Reached TD Completion Date

County \_\_\_\_\_ Docket No. \_\_\_\_\_

FROM CONFIDENTIAL

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 \_\_\_\_\_

Title President Date 9-7-93

Subscribed and sworn to before me this 7th day of September 19 93

Notary Public Lisa Thimmesch

Date Commission Expires \_\_\_\_\_

LISA THIMMESCH  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appl Exp 8-21-95

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
RECEIVED  
DISTRIBUTED TO STATE CORPORATION COMMISSION  
 KCC  SWD/Rep  IGPA  
 KGS  Plug  
SEP 09 1993  
9-9-1993  
CONSERVATION DIVISION  
Wichita, Kansas

SIDE TWO

Operator Name Ritchie Exploration Lease Name Custer "A" Well # 1  
 Sec. 8 Twp. 11 Rge. 22W  East  West  
 County Trego

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.)  
 List All E.Logs Run:

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

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

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:	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				

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	3631.7'-3635.7' (L/KC)	500 gal 15% NE	3631.7'-B635.7'
3	3320'-3322' (Lecompton)	500 gal 15% NE & 750 gal	28% NE 3320'-3322'

TUBING RECORD

Size	Set At	Packer At	Liner Run
2 3/8"	3763'	na	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. 5-28-93 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	2.00	0.00	15.00		

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 \_\_\_\_\_

Conservation Division

TYPE TEST: Initial Annual (Workover) Reclassification TEST DATE: 4-20-93

Company: RITCHIE EXPL. INC. Lease: CUSTER A Well No. 2

County: TREGO Location: SW SE SE Section: 8 Township: 11 Range: 22W Acres: 2

Field: TOPEKA LSG. MARM Reservoir: ncrb Pipeline Connection:

Completion Date: Type Completion(Describe): Plug Back T.D.: Packer Set At:

Production Method: SPM: 9 1/2 LS 54 Type Fluid Production: 3814 API Gravity of Liquid/Oil: 36.1

Flowing (Pumping) Gas Lift: 0.1 Casing Size: 4 1/2 Weight: I.D. Set At: 3890 Perforations: 3320-24 To: 3511.5-3618

Tubing Size: 2 3/8 Weight: I.D. Set At: 3812 Perforations: 3780-96 To:

Pretest: Starting Date: Time: Ending Date: Time: Duration Hrs.:

Test: Starting Date: 4-19-93 Time: 11:30 AM Ending Date: 4-20-93 Time: 11:30 AM Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure			Choke Size				
Casing:			Tubing:							
Bbls./In.	Tank Size	Number	Starting Gauge Feet	Inches	Barrels	Ending Gauge Feet	Inches	Barrels	Net Prod. Bbls. Water	Oil
Pretest:										
1-67/16										
Test:	200	9038	7	11 1/2		8	3		30	6
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range			Static Pressure:		
Pipe Taps:	Flange Taps:	Differential:	Meter-Prover-Tester Pressure		Diff. Press.	Gravity	Flowing	
Measuring Device	Run-Prover-Tester Size	Orifice Size	In. Water	In. Merc.	Psig or (Pd)	(hw) or (hd)	Gas (Gg)	Temp. (t)
Orifice Meter								
Critical Flow Prover								
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coeff. MCFD (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psia)(Pm)	Extension $\sqrt{hw \times Pm}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)

Gas Prod. MCFD Flow Rate (R): Oil Prod. Bbls./Day: Gas/Oil Ratio (GOR) = Cubic Ft. per Bbl.

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 20 day of April 19 93

For Offset Operator: *Marvin Miller* For State: *[Signature]* For Company: *[Signature]*

RECEIVED  
 STATE CORPORATION COMMISSION  
 APR 28 1993  
 4-28-1993  
 CONSERVATION DIVISION  
 Wichita, Kansas