

COPY

31-7-21W
CONFIDENTIAL

FORM MUST BE TYPED

SIDE ONE

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

KCS
DupOperator: License # 4767Name: Ritchie Exploration, Inc.Address 125 N. Market, Ste. 1000City/State/Zip Wichita, KS 67202Purchaser: NCRAOperator Contact Person: Jeff ChristianPhone (316) 267 - 4375Contractor: Name: Murfin Drilling Company, Inc.License: 30606Wellsite Geologist: K. Kessler

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: RELEASEDWell Name: JAN 18Comp. Date MAR 14 1996 Old Total Depth KCC☐ Deepening ☐ Re-Entry ☐ Conversion to Inj/SWD☐ Plug Back ☐ PBTB☐ Commingled ☐ Docket No.☐ Dual Completion ☐ Docket No.☐ Other (SWD or Inj?) ☐ Docket No.10-12-93 10-20-93 11-18-93Spud Date 10-12-93 Date Reached TD 10-20-93 Completion Date 11-18-93API NO. 15- 065-22725County Graham120' E of N/2 - NW Sec. 31 Twp. 7S Rge. 21 X W4950 Feet from S/W (circle one) Line of Section3840 Feet from E/W (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, (SE) NW or SW (circle one)Lease Name Van Loenen - 31B Well # 1

Field Name _____

Producing Formation Arbuckle, L/KCElevation: Ground 2175' KB 2180'Total Depth 3750' PBTB 3716Amount of Surface Pipe Set and Cemented at 206 FeetMultiple Stage Cementing Collar Used? ☒ Yes ☐ NoIf yes, show depth set 1759.51 FeetIf Alternate II completion, cement circulated from 1759.51feet depth to Surface w/ 330 SX Cnt.Drilling Fluid Management Plan ALT 2 JH 4-20-94
(Data must be collected from the Reserve Pit)Chloride content 200 ppm Fluid volume 612 bblsDewatering method used evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name PLEASE KEEP THIS INFO. CONFIDENTIAL

Lease Name _____ License No. _____

Quarter _____ Twp. _____ S Rng. _____ E/W

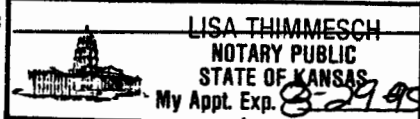
County _____ Docket No. _____

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 1/19/94Subscribed and sworn to before me this 19th day of January.94.Notary Public [Signature]

Date Commission Expires _____



K.C.C. OFFICE USE ONLY		
F	☒	Letter of Confidentiality Attached
C	☒	Wireline Log Received
C	☒	Geologist Report Received
Distribution		
☒ KCC	☐ SWD/Rep	☐ NGPA
☒ KGS	☐ Plug	☐ Other (Specify)

Form ACO-1 (7-91)

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Operator name Ritchie Exploration, Inc. Lease Name Van Loenen Well # 1
 Sec. 31 Twp. 7S Rge. 21 County Graham
☐ East ☒ West

COPY

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:

RA Guard Log
 Sonic Cement Bond Log

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

KCC

JAN 1 8

RELEASED

CONFIDENTIAL

MAR 1 4 1996

See attached sheet FROM 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
surface	12 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "	23 $\frac{1}{2}$	300'	60/40	140	2% Gel 3% CC
production	7 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	10.5#	3047'	60/40	160	10% Salt

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ Plug Off Zone				

PLEASE KEEP THIS
 INFORMATION
 CONFIDENTIAL

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	Arbuckle 3706.5-3710.5' & 3694.5'-3696.5'	350 gal 15% INS	Arbuckle
3	3580'-3583' L/KC 200' zone	600 gallons 15% NE	200' zone
		750 gallons 27% NE	200' zone
TUBING RECORD			
Size 2 3/8"	Set At 3713'	Packer At NA	Liner Run ☐ Yes ☒ No
Date of First, Resumed Production, SWD or inj. 11-18-93		Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls. 11.72	Gas Mcf	Water Bbls. 33.34 Gas-Oil Ratio Gravity

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

3694.5'-3710.5'
 3580'-3583'