FORM MUST BE TYPED

SIDE ONE

ORIGINAL

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

Operator: License # 4767 CONFIDENTIAL

Name: Ritchie Exploration, Inc.

Address P.O. Box 783188

City/State/Zip Wichita, KS 67278-3188

Purchaser:

Operator Contact Person: Rocky Milford

Phone (316) 691-9500

Contractor: Name: Vonfeldt Drilling, Inc.

License: 9431

Wellsite Geologist: Jeff Christian

Designate Type of Completion
X New Well ____ Re-Entry ____ Workover

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

If Workover:

Operator:

Well Name:

Comp. Date ____ Old Total Depth ____

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

7-26-99 Spud Date | 8-4-99 Date Reached TD | 8-5-99 Completion Date

API NO. 15-097-214420000

County Kiowa

Approx. -NW - SE Sec. 29 Twp. 28S Rge. 19 E X W

2060 Feet from (S) N (circle one) Line of Section

2000 Feet from (E) W (circle one) Line of Section

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

Lease Name A. Unruh Well # 1

Field Name

Producing Formation NONE

Elevation: Ground 2317' KB 2322'

Total Depth 5015' PBTD

Amount of Surface Pipe Set and Cemented at 316 Feet

Multiple Stage Cementing Collar Used? ____ Yes X No

If yes, show depth set ____ Feet

If Alternate II completion, cement circulated from ____

feet depth to ____ w/ ____ sx cmt.

Drilling Fluid Management Plan P&A 9-7-99 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 44,600 ppm Fluid volume 300 bbls

Dewatering method used Left to dry

Location of fluid disposal if hauled offsite:

Operator Name RELEASED

Lease Name License No.

____ Quarter Sec. AUG 16 2001 S Rng. E/W

County FROM CONFIDENTIAL Docket No.

AUG 16 1999 CONFIDENTIAL

RECEIVED
AUG 16 1999
KCC WICHITA

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 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 8/12/99

Subscribed and sworn to before me this 12th day of August, 19 99.

Notary Public Andrea Perez

Date Commission Expires January 26, 2002

ANDREA PEREZ
Notary Public - State of Kansas
My Appt. Expires 1/26/2002

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)
DG

Form ACO-1 (7-91)

SIDE TWO

Operator Name Ritchie Exploration, Inc. Lease Name A. Unruh Well # 1

Sec. 29 Twp. 28 Rge. 19 ☐ East ☒ West County Kiowa

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 (Attach Additional Sheets.) ☒ Yes ☐ No

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☒ Yes ☐ No

List All E.Logs Run:
Compensated Neutron Density Log & Dual Induction Log

☐ Log Formation (Top), Depth and Datums ☐ Sample

Name Top Datum

see attached

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 1/4	8/ 5/8	23#	308'	60/40	205	3% cc 2% gel

ADDITIONAL CEMENTING/SQUEEZE RECORD

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

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

TUBING RECORD Size Set At Packer At Liner Run ☐ Yes ☐ No

Date of First, Resumed Production, SWD or Inj. D+A Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	N-A				

Disposition of Gas: METHOD OF COMPLETION Production Interval

☐ Vented ☐ Sold ☐ Used on Lease (If vented, submit ACO-18.)

☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify)

RITCHIE
EXPLORATION, INC.
Wichita, Kansas

ORIGINAL

#1 A. Unruh
2060' FSL – 2000' FEL
Section 29-28S-19W
Kiowa County, Kansas
API# 15-097-21442 0000

CONFIDENTIAL

KCC
AUG 16 1999
CONFIDENTIAL

RELEASED
AUG 16 2001
FROM CONFIDENTIAL

Log Tops

Anhydrite	1247'	(+1075)	+6
Heebner	4155'	(-1833)	+14
Brown Lime	4323'	(-2001)	+14
Lansing	4332'	(-2010)	+16
Stark	4610'	(-2288)	+9
B/KC	4697'	(-2375)	+10
Marmaton	4757'	(-2435)	+10
Cherokee	4875'	(-2553)	+8
Miss. Osage	4954'	(-2632)	-3
LTD	5014'	(-2692)	

DST #1 4412-4440' (L/KC "F" zone).
Recovered 180' muddy water, (25% mud, 75% water) 1,200' slightly gas cut salt water, (3% gas, 97% water)
IFP: 66-414# ISIP: 1438#,
FFP: 453-695# FSIP: 1432#

DST #2 4940-4962'(Miss. Osage chert),
Recovered 235' gas in pipe, 65' slightly oil and gas cut mud (10% gas, 8% oil, 82% mud).
IFP 19-38#/35", ISIP 1097#/30"
FFP 32-44#/ 30", FSIP 1314#/45"

DST #3 4962-4975' (Miss. Osage).
Recovered 250' gas in pipe, 120' gas and oil cut muddy water (8% gas, 8% oil, 40% mud, 44% water), 180' gas and oil cut muddy water (8% gas, 2% oil, 20% mud, 70% water), 2,730' gassy water with a few oil specks (5% gas, 95% water), 3,030' total fluid.
IFP: 330-890#/30" ISIP: 1521#/45"
FFP: 1030-1423#/30" FSIP: 1534#/45"

RECEIVED
STATE CORPORATION COMMISSION
AUG 25 1999
CONSERVATION DIVISION
Wichita, Kansas

P.O. Box 783188
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ritchieexp@feist.com

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