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

Operator: License # 4167
Name: Ritchie Exploration, Inc.
Address: 125 N. Market, Suite 1000
City/State/Zip: Wichita, KS 67202
Purchaser: Koch Oil Co.
Operator Contact Person: Jeff Christian
Phone: (316) 267-4375
Contractor: Name: Murfin Drilling Co., Inc.
License: 30606
Wellsite Geologist: R. Milford/K. Kessler

X New Well
X Oil
X Gas

Designate Type of Completion
Re-Entry
SWD
Inj
Dry
Other (Core, Water Supply, etc.)

If CSWD: old well info as follows:
Operator:
Well Name:
Comp. Date Old Total Depth

Drilling Method:
X Mud Rotary
X Air Rotary
Cable

4/15/91 4/23/91 5/9/91
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado
Derby Building, Wichita, Kansas 67201, within 120 days of the spud date of any well. Rule 82-3-103, 82-3-104 and 82-3-106 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 drillers time
logs 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. Any recompletion, workover or
conversion of a well requires filing of ACD-2 within 120 days of commencement date of such work.

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: 7/19/91
Subscribed and sworn to before me this 19th day of July, 1991.
Notary Public: Linda K. Rice
Date Commission Expires: 6/07/92

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received

Distribution
KCC SWD/Rep NGPA Other
KCS Plug

RELEASED
AUG 02 1993
Form ACD-1 (7-89)
FROM CONFIDENTIAL
**CASING RECORD**

- **Operator Name:** Ritchie Exploration, Inc.  
- **Lease Name:** Schuck-11C  
- **Sec. 11 Twp. 6S Rge. 23W**

**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 □

**Formation Description**
- Log ☑ Sample □

**Name**
- Top Bottom

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**Casing Record**

- **New ☑ Used □**
- Report all strings set-conductor, surface, intermediate, production, etc.

<table>
<thead>
<tr>
<th>Purpose of String</th>
<th>Size Hole Drilled</th>
<th>Size Casing Set (In O.D.)</th>
<th>Weight Lbs./Ft.</th>
<th>Setting Depth</th>
<th>Type of Cement</th>
<th># Sacks Used</th>
<th>Type and Percent Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>12½&quot;</td>
<td>8-5/8&quot;</td>
<td>28#</td>
<td>256'</td>
<td>60/40 poz</td>
<td>185</td>
<td>2% gel, 3%CC</td>
</tr>
<tr>
<td>Production</td>
<td>7-7/8&quot;</td>
<td>4½&quot;</td>
<td>10.5#</td>
<td>3822'</td>
<td>60/40 poz</td>
<td>150</td>
<td>1% salt, 3% gel</td>
</tr>
</tbody>
</table>

**Perforation Record**

- **Shots Per Foot:** Specify footage of each interval perforated

- **Acid, Fracture, Shot, Cement Squeeze Record**
  - Amount and kind of material used
  - Depth

- **3 jets**
  - 3758'-3762'

- **750 gal. of 15% NE acid**
  - 3758'-62'

**Tubing Record**

- **Size:**
  - 2-3/8"

- **Set At:**

- **Packer At:**

- **Liner Run:** Yes ☑ No □

**Date of First Production:**
- 5/09/91

**Producing Method**
- Flowing ☐ Pumping ☑ Gas Lift □ Other (Explain)

**Estimated Production Per 24 Hours**
- Oil: 15 Bbls.
- Gas: Mcf
- Water: 2 Bbls.
- Gas-Oil Ratio
- Gravity

**Disposition of Gas:** n/a

**Method of Completion**
- Open Hole ☐ Perforation ☑ Dually Completed □ Commingled □
- Other (Specify)

**Production Interval**
- 3758'-62'
### ELECTRIC LOG TOPS

| Anhydrite  | 2038' (+ 348) |
| B/Anhydrite | 2070' (+ 316) |
| Topeka      | 3372' (- 986) |
| Heebner     | 3570' (-1184) |
| Toronto     | 3595' (-1209) |
| Lansing     | 3610' (-1224) |
| B/KC        | 3797' (-1411) |
| LTD         | 3822' (-1436) |

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### DST #1 from 3521' to 3561' (Oread "A" & "B"). Recovered 300' of salt water.
- IFP: 96-163#/30"; ISIP: 1200#/30"; FFP: 201-259#/30"; FSIP: 1162#/30".

### DST #2 from 3571' to 3605' (Toronto). Recovered 975' of salt water with a few specks of oil in the first 15'.

### DST #3 from 3604' to 3629' (Top zone). Recovered 60' of mud and 1,000' of salt water, no show. Tool slid 10' to bottom and opened momentarily.

### DST #4 from 3627' - 3671' (L/KC 35' - 50' zone). Recovered 150' of oil cut watery mud, and 1,560' of oil cut water. 1,710' total fluid (4% oil, 91% water, 5% mud).

### DST #5 from 3668' to 3691' (L/KC 90' zone). Recovered 1,650' of salt water.

### DST #6 from 3713' to 3747' (L/KC 140' zone). Recovered 20' of oil cut mud (15% oil, 85% mud).

### DST #7 from 3742' to 3824' (L/KC 160'-220' zones). Recovered 1,178' of gas in pipe and 1,149' of clean gassy oil.

### DST #8 from 3646' to 3661' (L/KC 50' zone). Straddle test. Recovered 60' of oil cut watery mud (20% oil, 25% water, 55% mud); 240' of oil cut muddy water (5% oil, 45% mud, 50% water); and 1,164' of oil cut water (2% oil, 88% water). 1,464' total fluid.
TO: Ritchie Exploration, Inc.

125 N. Market #1000

Wichita, Kansas 67202

SERVICE AND MATERIALS AS FOLLOWS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common 111 sks @ $5.25</td>
<td></td>
<td></td>
<td>$82.75</td>
</tr>
<tr>
<td>Pozmix 74 sks @ $2.25</td>
<td></td>
<td></td>
<td>166.50</td>
</tr>
<tr>
<td>Chloride 5 sks @ $21.00</td>
<td></td>
<td></td>
<td>105.00</td>
</tr>
<tr>
<td>Handling 185 sks @ $1.00</td>
<td></td>
<td></td>
<td>185.00</td>
</tr>
<tr>
<td>Mileage (50) @ $0.04/c per sk per mi</td>
<td></td>
<td>370.00</td>
<td></td>
</tr>
<tr>
<td>Surface</td>
<td></td>
<td></td>
<td>380.00</td>
</tr>
<tr>
<td>Mi @ $2.00 pmp. trk.</td>
<td></td>
<td></td>
<td>100.00</td>
</tr>
<tr>
<td>1 plug</td>
<td></td>
<td></td>
<td>73.00</td>
</tr>
</tbody>
</table>

Cement circ. **If account CURRENT 20% discount will be allowed ONLY if paid within 30 days from date of invoice.**

Thank you

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

**Depth of Job**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>Camp truck - surface</td>
<td>380.00</td>
<td></td>
</tr>
<tr>
<td>#13</td>
<td>Mileage 2 @ 50 mi.</td>
<td>100.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8 7/8&quot; rubber plug</td>
<td>73.00</td>
<td></td>
</tr>
</tbody>
</table>

**Tax**

**Total**

**Mileage 2.04 / sk/mi (50 mi)**

**Sub Total**

**Floating Equipment Thanks**

**Received**

**State Corporation Commission**

**JUL 25 1991**

**By:**

**Wichita, Kansas**

**APR 17 1991**
ALLIED CEMENTING COMPANY, INC.
P. O. BOX 31
RUSSELL, KANSAS 67665

TO: Ritchie Exploration Inc.
125 N. Market
Wichita, Kansas 67202

APR 91 1003 R 27
Common 105 sks @$5.25 $551.25
Pozmix 70 sks @$2.25 157.50
Salt 17 sks @$4.75 80.75
WFR II 500 gal @$0.50 250.00
Gilsonite 454#@$0.33 149.82
Handling 175 sks @$1.00 175.00
Mileage (50) @$.04 per sk per mi 350.00
Production string 880.00
Mi @$2.00 pmp. trk. 100.00
1 plug 33.00
1-4½" g. shoe 109.00
1 AFU 169.00
1 basket 113.00
6 cent. 330.00
1 p. collar 1680.00

Total $5,128.23

APR 29 1991

Float held

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

MAY 3 1991

Reference #1 PumpJack-long string #880.00
#1/3 mileage @2.00/mi. 100.00

Sub Total #983.00

Tax #1013.00

Total #1013.00

Floating Equipment

4½"

1-regular guide shoe. -109.00
1-AFU insert (flapper type) -169.00
1-cementing basket 113.00
6-tube centralizers @55.00 330.00
1-part collar (Baker) -1680.00

Sub Total #1714.32

RECEIVED

JUL 5 1991

MAY 3 1991
TO: Ritchie Exploration Inc.
125 N. Market #1000
Wichita, Kansas 67202

SERVICE AND MATERIALS AS FOLLOWS:

Common 125 sks @$5.25 $656.25
Pozmix 125 sks @$2.25 281.25
Gel 9 sks @$6.75 60.75
Handling 250 sks @$1.00 250.00
Mileage (48) @$0.04c per sk per mi 480.00
Pep, trk, & pi cellar M & @ $2.00 ppm, trk. 473.00

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

Cement circ.

If account CURRENT 20% discount will be allowed ONLY if paid within 30 days from date of invoice.

Thank you

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

DEPTH of Job
Reference: Pump Track 475.00
0 200 ft. per mi. 91.00
Sub Total 571.00
Tax 0.00
Total 571.00

Mileage 447 SK / MILE 480.00

RECEIVED
STATE COMMISSION COMMISSION

JUL 25 1991

SAND DIVISION
Wichita, Kansas