State Corporation Commission of Kansas
Oil & Gas Conservation Division
Well Completion Form
ACO-1 Well History
Description of Well and Lease

API No. 15- 065-22,627

County: Graham

SW SW NW Sec. 14 Twp. 6S Rge. 23 X
East

2970 Ft. North from Southeast Corner of Section
4950 Ft. West from Southeast Corner of Section

Lease Name: Rice

Field Name: unnamed

Producing Formation: Lansing

Elevation: Ground 2368' KB 2373'

Total Depth: 3830'

Well No.: 1

Operator: Ritchie Exploration, Inc.

Address: 125 N. Market, Suite 1000

City/State/Zip: Wichita, KS 67202

Operator: Koch Oil Co.

Operator Contact Person: Jeff Christian

Phone (316): 267-4375

Contractor: Murfin Drilling Co.

License: 30606

Wellsite Geologist: Kitt Noah

Designate Type of Completion:

- X New Well
- Re-Entry
- Workover
- Oil
- SMD
- Temp. Abbr
- Gas
- Inj
- Delayed Comp.
- Dry
- Other (Core, Water Supply, etc.)

If OWM: old well info as follows:

Operator:

Well Name:

Comp. Date: Old Total Depth

Drilling Method:

- X Mud Rotary
- Air Rotary
- Cable

4/01/91 Spud Date
4/09/91 Date Reached TD
4/20/91 Completion Date

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on sides 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 log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-115 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 ACO-2 within 120 days from 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 17th day of July 1991.

Notary Public:

Date Commission Expires

K.C.C. Office Use Only

Distribution:

Letter of Confidentiality Attached
Wireline Log Received
Drillers Time Log Received

Form ACO-1 7-91

FROM CONFIDENTIAL S-2-93
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 ☐

(See attached page).

Please keep this information confidential.

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>12¾&quot;</td>
<td>8-5/8&quot;</td>
<td>28#</td>
<td>241'</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>3823'</td>
<td>60/40 poz</td>
<td>150</td>
<td>10% salt + 3% gilsonite</td>
</tr>
</tbody>
</table>

Perforation Record  
Shots Per Foot  
Specify footage of each interval perforated  
3 SSB  
3605.8'-3610'

Acid, Fracture, Shot, Cement Squeeze Record  
(Amount and Kind of Material Used)  
Depth  
n/a

Tubing Record  
Size  
2-3/8"  
Set At  
13' off bottom  
Packer At  

Liner Run  
Yes ☒ No ☐

Date of First Production  
4/20/91  
Producing Method  
Flowing ☐ Pumping ☒ Gas Lift ☐ Other (Explain) ☐

Estimated Production  
Per 24 Hours  
Oil 53 Bbls.  
Gas Mcf  
Water 0 Bbls.  
Gas-Oil Ratio  
Gravity

Disposition of Gas:  
Vent ☐ Sold ☐ Used on Lease (If vented, submit ACO-90) ☐

Method of Completion  
Open Hole ☐ Perforation ☒ Dually Completed ☐ Commingled ☐

Other (Specify)  
3605.8'-3610'  

Production Interval
Ritchie Exploration, Inc.
#4767
#1 Rice
SW SW NW
Section 14-6S-23W
Graham County, Kansas
API #: 15-065-22,627

ACO-1 form
Page 2

DRILL STEM TESTS:

DST #1 from 3535' to 3555' (Oread "B").
Recovered 25' of muddy water.
IPF:21-21#/30";ISIP:1082#/30";
FFP:21-21#/30";FSIP:1082#/30".

DST #2 from 3563' to 3603' (Toronto). Recovered 30' of mud with show of oil in top of tool.
IPF:53-53#/30";ISIP:1114#/30";
FFP:53-53#/30";FSIP:1072#/30".

DST #3 from 3600' to 3625' (Top zone).
Recovered 1,627' gas in pipe, 913' clean gassy oil and 248' slightly mud cut gassy oil.
IPF:181-255#/30";ISIP:659#/45";
FFP:372-426#/30";FSIP:617#/30".

DST #4 from 3624' to 3663' (35' & 50' zones). Recovered 1,977' of muddy water.
IPF:330-569#/30";ISIP:1146#/30";
FFP:722-839#/30";FSIP:1146#/30".

DST #5 from 3661' to 3685' (70' & 90' zones). Recovered 2,470' of muddy water.
IPF:521-903#/30";ISIP:1127#/30";
FFP:1051-1093#/30";FSIP:1156#/30".

DST #6 from 3715' to 3830' (140' through 220' zones). Recovered 1,013' of watery mud, no show of oil (47% water, 53% mud).
NOTE: Packer failed momentarily.
IPF:287-319#/30";ISIP:1177#/30";
FFP:426-447#/30";FSIP:1093#/30".

ELECTRIC LOG TOPS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Anhydrite</td>
<td>2048' (+325)</td>
</tr>
<tr>
<td>B/Anhydrite</td>
<td>2080' (+293)</td>
</tr>
<tr>
<td>Topeka</td>
<td>3367' (-994)</td>
</tr>
<tr>
<td>Heebner</td>
<td>3566' (-1193)</td>
</tr>
<tr>
<td>Toronto</td>
<td>3592' (-1216)</td>
</tr>
<tr>
<td>Lansing</td>
<td>3606' (-1233)</td>
</tr>
<tr>
<td>B/KC</td>
<td>Not logged.</td>
</tr>
<tr>
<td>LTD</td>
<td>3800' (-1427)</td>
</tr>
</tbody>
</table>

*Electric log did not reach bottom. Est. LTD 3825'.
TO: Ritchie Exploration Inc. 1
125 N. Market #1000
Wichita, Kansas 67202

INVOICE NO. 1003572
PURCHASE ORDER NO. LC-7230001
LEASE NAME Rice #1
DATE April 15, 1991

SERVICE AND MATERIALS AS FOLLOWS:

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>APR 91</td>
<td>Common 175 sks @ $5.25</td>
<td>175</td>
<td>$5.25</td>
<td>$918.75</td>
</tr>
<tr>
<td>APR 91</td>
<td>Pozmix 175 sks @ $2.25</td>
<td>175</td>
<td>$2.25</td>
<td>$393.75</td>
</tr>
<tr>
<td>APR 91</td>
<td>Gel 12 sks @ $6.75</td>
<td>12</td>
<td>$6.75</td>
<td>$81.00</td>
</tr>
<tr>
<td>APR 91</td>
<td>Handling 350 sks @ $1.00</td>
<td>350</td>
<td>$1.00</td>
<td>350.00</td>
</tr>
<tr>
<td>APR 91</td>
<td>Mileage (50) @ $0.04c per sk per mi</td>
<td>50</td>
<td>$0.04</td>
<td>700.00</td>
</tr>
<tr>
<td>APR 91</td>
<td>Pmp. trk &amp; p. collar</td>
<td></td>
<td></td>
<td>475.00</td>
</tr>
<tr>
<td>APR 91</td>
<td>Mi @ $2.00 pmp. trk.</td>
<td></td>
<td></td>
<td>100.00</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td></td>
<td>$1,393.50</td>
</tr>
</tbody>
</table>

Cement circ.

THANK YOU 6200.0290 = 3018.50
3820.70 = 4037.10

2418.80 =

APR 17 1991
APR 25 1991

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.
## ALLIED CEMENTING COMPANY, INC.

**P. O. BOX 31**  
**RUSSELL, KANSAS 67665**

**APR 91**  
**1003548**

### TO:

Ritchie Exploration Inc.

125 N. Market #1000

Wichita, Kansas 67202

---

### SERVICE AND MATERIALS AS FOLLOWS:

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common 105 sks @$5.25</td>
<td></td>
<td></td>
<td>551.25</td>
</tr>
<tr>
<td>Pozmix 70 sks @$2.25</td>
<td></td>
<td></td>
<td>157.50</td>
</tr>
<tr>
<td>Salt 15 sks @$4.75</td>
<td></td>
<td></td>
<td>71.25</td>
</tr>
<tr>
<td>Gilsonite 45000@$0.33</td>
<td></td>
<td></td>
<td>148.50</td>
</tr>
<tr>
<td>WFR II 500 gal @$0.50</td>
<td></td>
<td></td>
<td>250.00</td>
</tr>
<tr>
<td><strong>Handling 175 sks @$1.00</strong></td>
<td></td>
<td></td>
<td>175.00</td>
</tr>
<tr>
<td><strong>Mileage (49) @$0.04c per sk per mi</strong></td>
<td></td>
<td></td>
<td>343.00</td>
</tr>
<tr>
<td><strong>Production string</strong></td>
<td></td>
<td></td>
<td>880.00</td>
</tr>
<tr>
<td><strong>Mi @$2.00 pmp trk.</strong></td>
<td></td>
<td></td>
<td>98.00</td>
</tr>
<tr>
<td><strong>1 plug</strong></td>
<td></td>
<td></td>
<td>33.00</td>
</tr>
<tr>
<td><strong>6-4½&quot; cent.</strong></td>
<td></td>
<td></td>
<td>258.00</td>
</tr>
<tr>
<td><strong>1 basket</strong></td>
<td></td>
<td></td>
<td>113.00</td>
</tr>
<tr>
<td><strong>1 AFU</strong></td>
<td></td>
<td></td>
<td>169.00</td>
</tr>
<tr>
<td><strong>1 g. shoe</strong></td>
<td></td>
<td></td>
<td>109.00</td>
</tr>
<tr>
<td><strong>1 p. collar</strong></td>
<td></td>
<td></td>
<td>1680.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>2329.00</td>
</tr>
</tbody>
</table>

**Cost of Float Held**  

**6% @ 6% off = 3.8%**  

**Total:**  

**$5,036.50**

---

### THANK YOU

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.
TO: Ritchie Exploration Inc.
125 N. Market #1000
Wichita, Kansas 67202

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

Common 111 sks @$5.25 $582.75
Pozmix 74 sks @$2.25 166.50
Chloride 5 sks @$21.00 105.00

Handling 185 sks @$1.00 185.00
Mileage (50) @$0.04c per sk per mi 370.00
Surface 380.00
Mi @$2.00 pmp. trk. 100.00
1 plug 73.00

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>Dump truck - surface</td>
<td>$380.00</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Mileage $2.00/mi.</td>
<td>$100.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-8½&quot; wooden plug</td>
<td>$73.00</td>
<td></td>
</tr>
</tbody>
</table>

Sub Total $553.00

Mileage 0.44 $/sk/mi.(50 m.) 370.00

Sub Total $1409.20

Total

Floating Equipment

Tax

Total

Remarks: Cement Circulated.

Date April 1, 1991
ALLIED CEMENTING CO., INC.
Home Office P. O. Box 31
Russell, Kansas 67665

Date 4-1-91
Sec. 14
Twp. 23
Range 3
Called Out 3:00 P.M.
On Location 6:00 P.M.
Job Start 8:30 P.M.
Finish 9 P.M.

Lease Rice
Well No. 1
Location Hill City 12N 11W 1/4 SE
County Graham

Contractor Marlin Dril Co
Rig # 8

Type Job Set Surface Pipe

Hole Size 12 1/4"
Ctg. 8 3/8"
Tbgl. Size Depth 241'

Drill Pipe
Tool Depth

Cement Left in Ctg. 15'
Shoe Joint

Press Max. Minimum

Meas Line X
Perf. Displace X

PLEASE KEEP THIS INFORMATION EQUIPMENT CONFIDENTIAL

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Ritchie Exploration, Inc.
Street 125 N. Market, Suite 1000
City Wichita
State KS

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.

Cement

Amount Ordered 185 sks @ 40 per 28 gel 3.8 C.C.

Consisting of
Common 111 sks @ 5.25/sk. 582.75
Pos. Mix 74 sks @ 2.25/sk. 166.50
Gel. 3 sks 4.50
Chloride 5 sks @ 21.00/sk. 105.00
Quickset 

Sales Tax 

Handling 61.00/sk. (135 sks) 185.00
Mileage 404.40/sk/mi. (50 mi) 370.00

Sub Total 1,409.25

Total

Floating Equipment Thanks

RELEASED
AUG 2 1993

FROM CONFIDENTIAL APR 1 2 1991

Terms: Payable upon receipt
## Allied Cementing Co., Inc.

### Date: 4-9-91

**Date:** 4-9-91  
**Sec.:** 14  
**Twp.:** 6  
**Range:** 23  
**Called Out:** 4:00 PM  
**On Location:** 9:00 PM  
**Firm:**

### Contractor: Munir, Pole Rigg

**Type Job:** Production

### Hole and Tool Information

- **Hole Size:** 7 1/8"  
- **T.D.:** 3830'  
- **Casing Size:** 4 1/2"  
- **Depth:** 3823'  
- **Cement Left in Casing:** 29'  
- **Shoe Joint:** 29'

### Perforation and Silting

**Perf.:**

**Mess Line:** Yes

### Equipment

<table>
<thead>
<tr>
<th>#</th>
<th>No.</th>
<th>Item</th>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>61</td>
<td></td>
<td>Cementer</td>
<td>M. Kaufman</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Helper</td>
<td>W. M.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pump Trk</td>
<td>1</td>
<td>880.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rubber Plug</td>
<td>1</td>
<td>33.00</td>
</tr>
<tr>
<td>212</td>
<td></td>
<td>Driver</td>
<td>Joe S.</td>
<td></td>
</tr>
</tbody>
</table>

### Depth of Job

- **Pump Trk:** 49 miles  
- **Rubber Plug:** 200 per mile

### Remarks:

- 15 sks in Rat Hole
- 10 sks in Mouse Hole
- Float Held

### Charges

- **To:** Ritchie Exploration Inc.
- **Street:** 1705 Anthony Drive
- **City:** Hays  
- **State:** Kan 67601

The above was done to satisfaction and supervision of owner agent or contractor.

### Cements

- **10 BBL'S Mud Flush**

### Equipment Costs

- **Consisting of**
  - Common:  
    - 105 sks @ 5.25
  - Poz. Mix: 20 sks @ 2.25
  - Salt: 15 sks @ 4.75
  - Chipmunk: 6100 lbs @ 85
  - Quiksett: 500 gal. @ 75

### Handling

- **1.00 per sk:** 175.00

### Mileage

- **49 miles:** 343.00

### Sub Total

- **Total:** 1,696.00

### Floating Equipment

- **Centralizers:** 258.00
- **Basket:** 113.00
- **AFU Insert:** 169.00
- **Guide Shoe:** 109.00
- **Baker Port Collar:** 1,680.00

**Total:** 2,329.00

### Date

- **APR 1 8 1991**  
- **APR 1 2 1991**

---

**Confidential Information**
# Allied Cementing Co., Inc.

**Home Office P. O. Box 31**

**Russell, Kansas 67665**

<table>
<thead>
<tr>
<th>Date</th>
<th>Sec.</th>
<th>Fwp.</th>
<th>Range</th>
<th>Called Out</th>
<th>On Location</th>
<th>Job Start</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-15-91</td>
<td>14</td>
<td>63</td>
<td>23 w</td>
<td>6:40 A.M.</td>
<td>8:45 A.M.</td>
<td>9:30 A.M.</td>
</tr>
</tbody>
</table>

**Lease:** Rice  
**Well No.:** 1  
**Location:** Hill City 12N 1/2W 1/4 SE  
**County:** Graham  
**Owner:** Same

**Type Job:** Port Collar

<table>
<thead>
<tr>
<th>Hole Size</th>
<th>T.D.</th>
<th>Ceg.</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 1/8&quot;</td>
<td>3830'</td>
<td>4 1/11&quot;</td>
<td>3823'</td>
</tr>
</tbody>
</table>

**Surface Pipe:** 8 1/4"  
**Tool:** Port Collar  
**Cement Left in Ceg.:** Shoe Joint

**Press Max.:** 10000

---

**EQUIPMENT**

<table>
<thead>
<tr>
<th>No.</th>
<th>Pumptrk 191</th>
<th>Helper</th>
<th>Gary H. Wayland, Mo.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cementer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pumprk</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Driver</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bulkert</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**DEPT of Job**

**Reference:**
- #5 Pumptruck - port collar @ 475.00
- #13 Mileage @ 0.20/mi. @ 100.00

**Sub Total:** #575.00

**Remarks:**
- Port collar opened & closed O.K.
- Cement circulated

---

**Cement**

<table>
<thead>
<tr>
<th>Consisting of</th>
<th>Amount Ordered</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common</td>
<td>350 sks @ 50.00</td>
<td>17,500.00</td>
</tr>
<tr>
<td>Poz. Mix</td>
<td>350 sks @ 35.00</td>
<td>12,250.00</td>
</tr>
<tr>
<td>Gel.</td>
<td>12 sks @ 6.75/sk (Used 18 sks)</td>
<td>81.00</td>
</tr>
<tr>
<td>Chloride</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quicksand</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Handling:** @ 1.00/sk. (350 sks) @ 350.00

**Mileage:** @ 0.44/sk/mi. (50 mi.) @ 700.00

**Sub Total:** #2443.00

**Total:**

**Sales Tax:**

**Floating Equipment:**

---

**RECEIVED**

**STATE CORPORATION COMMISSION**

**Aug. 2-1991**

**APR. 17 1991**

FROM CONFIDENTIAL