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

API NO. 15- 163-23,127 ~00-00

County  Books  
NE  SW  SW  Sec. 22  Twp. 6S  Rge. 20  X

West
990  Ft. North from Southeast Corner of Section
4290  Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name  Gartrell  Well # 4

Field Name  unnamed

Producing Formation  Arbuckle  Dry

Elevation: Ground  2143  KB  2148

Total Depth  3578'  PSTD

If OAWD: old well info as follows:
Operator:  N/A
Well Name:  
Comp. Date  Old Total Depth  

Drilling Method:  X Mud Rotary  Air Rotary  Cable

11-5-90  11-14-90
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 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and
82-3-166 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 log 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 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  Jim Baird

Title  Exec. Vice-President  Date 1-14-91

Subscribed and sworn to before me this 4th day of
19

Notary Public  Marilyn Allen

Date Commission Expires  2-9-94

K.C.C. OFFICE USE ONLY

Letter of Confidentiality Attached
Wireline Log Received
Drillers Timelog Received

Distribution

KCC  SMD/Rep  NGPA
KGS  Plug  Other

(MSpecify)

Form ACO-1 (7-89)
Operator Name: Baird Oil Company
Lease Name: Gartrell
Well #: 4
Sec. 22 Twp. 6S Rge. 20
County: Rooks

**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 □ Yes □ No
- **Samples Sent to Geological Survey**
  - Yes □ Yes □ No
- **Cores Taken**
  - Yes □ Yes □ No
- **Electric Log Run**
  - Yes □ Yes □ No
  
  (See attached sheet)

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**FORMATION DESCRIPTION**

- **Log** □ Log □ Sample

<table>
<thead>
<tr>
<th>Name</th>
<th>Top</th>
<th>Bottom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topeka</td>
<td>3148</td>
<td>-1000</td>
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<tr>
<td>Heebner</td>
<td>3348</td>
<td>-1200</td>
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<td>Toronto</td>
<td>3371</td>
<td>-1223</td>
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<td>Lansing</td>
<td>3386</td>
<td>-1238</td>
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<td>B/KC</td>
<td>3582</td>
<td>-1434</td>
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<td>Arb.</td>
<td>3672</td>
<td>-1524</td>
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<tr>
<td>TD</td>
<td>3681</td>
<td>-1533</td>
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**CASING RECORD**

- **New** □ New □ Used

<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>20#</td>
<td>242'</td>
<td>60-40pozmix</td>
<td>170</td>
<td>3% CO 2% gel</td>
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**PERFORATION RECORD**

<table>
<thead>
<tr>
<th>Shots Per Foot</th>
<th>Specify Footage of Each Interval Perforated</th>
<th>Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

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**TUBING RECORD**

<table>
<thead>
<tr>
<th>Size</th>
<th>Set At</th>
<th>Packer At</th>
<th>Liner Run</th>
<th>Yes □ Yes □ No</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

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**Date of First Production**

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

**Estimated Production Per 24 Hours**

- **Oil** Bbls.
- **Gas** Mcf
- **Water** Bbls.
- **Gas-Oil Ratio**
- **Gravity**

**Disposition of Gas:**

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

**METHOD OF COMPLETION**

- □ Open Hole □ Perforation □ Dually Completed □ Commingled
  - □ Other (Specify) ________________

**Production Interval**
GARTRELL #4  NE SW SW  22-6S-20W, Rooks Co., Ks.

DRILL STEM TESTS

DST #1  (3350-3377) 30-30-0-0 IFP: 38-38 ISIP: 451 FFP: - FSIP: -
Rec. 3 feet of mud with oil spots.

DST #2  (3375-3400) 30-30-0-0 IFP: 28-28 ISIP: 28 FFP: - FSIP: -
Rec. 5 feet of mud.

FSIP: 548 Rec. 45 feet of mud.

DST #4  (3426-3447) IFP: 48-48 ISIP: 48 FFP: - ISIP: - Rec. 3
feet of mud. 30-30-0-0

DST #5  (3443-3471) 30-30-30-30 IFP: 57-57 ISIP: 980 FFP: 57-57
FSIP: 903 Rec. 15 feet of mud w/oil spots.

DST #6  (3518-3544) 30-30-0-0 IFP: 57-57 ISIP: 76 FFP: - FSIP: -
Rec. 4 feet of mud with oil spots

DST #7  (3575-3626) 30-30-30-30 IFP: 48-48 ISIP: 76 FFP: 57-57
FSIP: 67 Rec. 1 foot of F.O. 19 feet of H.O.C.M.

DST #8  (3575-3638) 30-30-0-0 IFP: 76-76 ISIP: 201 FFP: - FSIP: -
Rec. 35 feet of H.O.C.M.
# HALLIBURTON SERVICES

**WELL LEASING/PLANT NAME:** CARTERIL 4

**CONTRACTOR:** ROCKS

**JOB PURPOSE:** K3 SAME

**HAYS:** ABERCROMBIE

**CEMENT SURFACE CASING**

**ACCOUNT NO.:** 002400

**CUSTOMER AGENT:** HAROLD MALEY

**VENDOR NO.:** COMPANY TRUCK 0504

**DATE:** 11/02/1996

**DIRECT CORRESPONDENCE TO:**

A. ABERCROMBIE INC.

OIL CENTER

ROUTE 1 BOX 56

GREAT BEND, KS 67530

SUITE 1300

LIBERTY TOWER

100 BROADWAY AVENUE

OKLAHOMA CITY, OK 73102-0000

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## PRICING AREA - MID CONTINENT

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>UNIT PRICE</th>
<th>AMOUNT</th>
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<tbody>
<tr>
<td>MILEAGE</td>
<td>22 MI</td>
<td>2.35</td>
<td>51.70</td>
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<tr>
<td>MILEAGE SURCHARGE-CEMENT-LAND</td>
<td>22 MI</td>
<td>0.40</td>
<td>8.80</td>
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<tr>
<td>CEMENTING CASING</td>
<td>242 FT</td>
<td>440.00</td>
<td>440.00</td>
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</tr>
<tr>
<td>CMTG PLUG LA-11,CP-1,CP-3,TOP</td>
<td>8 5/8 IN</td>
<td>59.00</td>
<td>59.00</td>
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<tr>
<td>STANDARD CEMENT</td>
<td>102 SK</td>
<td>5.45</td>
<td>555.90</td>
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<tr>
<td>POZMIX A</td>
<td>68 SK</td>
<td>2.98</td>
<td>195.84</td>
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</tr>
<tr>
<td>HALLIBURTON-GER 2%</td>
<td>3 SK</td>
<td>0.00</td>
<td>N/C</td>
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<tr>
<td>ANHYDROUS CALCIUM CHLORIDE</td>
<td>4 SK</td>
<td>25.75</td>
<td>103.00</td>
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<tr>
<td>BULK SERVICE CHARGE</td>
<td>178 CFT</td>
<td>1.10</td>
<td>195.80</td>
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<tr>
<td>MILEAGE CMTG MAT BEL OR RETURN</td>
<td>167.640 TMI</td>
<td>0.75</td>
<td>125.73</td>
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<td>MILEAGE SURCHARGE-CEMENT MAT</td>
<td>167.640 TMI</td>
<td>0.10</td>
<td>16.76</td>
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**INVOICE SUBTOTAL:** 1,752.53

**DISCOUNT-(BID):**

**INVOICE BID AMOUNT:**

971-794 = 1,300.00

138 = 221.15

**INVOICE TOTAL:** PLEASE PAY THIS AMOUNT $1,537.15

**TERMS:** PAYMENT MUST BE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. APPROPRIATE RATE APPLICABLE BUT NEVER TO EXCEED 1%. IN EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

**FORM 1900-R4**