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

Operator: License # 5131
Name: Thunderbird Drilling, Inc.
Address: P.O. Box 780407
City/State/Zip: Wichita, Ks. 67278

Purchaser:
Operator Contact Person: Burke Krueger
Phone (316) 685-1441
Contractor: Name: Abercrombie RTD, Inc.
License: 30684

Wellsite Geologist:

Designate Type of Completion
XX Oil _______ SWD _______ S10W _______ Temp. Abd.
XX Gas _______ ENHR _______ SIGW
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 _______ Commingled _______ Docket No.
Dual Completion _______ Docket No.
Other (SWD or Inj) _______ Docket No.

10-8-95 10-12-95 10-13-95
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2075, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-103, 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: Vice President Date: 1-4-96

Subscribed and sworn to before me this 4th day of January, 1996.

Notary Public

Date Commission Expires: [Signature]

K.C.C. OFFICE USE ONLY
Letter of Confidentiality Attached
Wireline Log Received
Geologist Report Received

Distribution
KCC SWD/Rep NGPA
KGS Plug Other

State Corporation Commission

GLENDA FINK
Notary Public - State of Kansas
Notary Public - State of Kansas

Form ACO-1 (7-91)
01-08-96
Operator Name: Thunderbird Drilling, Inc.  Lease Name: WICKIE  Well #: 2

Sec. 36 Twp. 1S Rge. 32W  East

County: Rawlins

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time 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 ELogs Run:
R.A. Guard Log

Log  Formation (Top), Depth and Datums  Sample Name  Top  Datum
See attached

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### CASING RECORD

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>310.10'</td>
<td>60/40 pos</td>
<td>225 sks</td>
<td>2% gel, 4% CC</td>
</tr>
<tr>
<td>Production String</td>
<td>7 7/8&quot;</td>
<td>4 1/2&quot;</td>
<td>10.5#</td>
<td>3999'</td>
<td>EA2</td>
<td>150 sks</td>
<td>5% caisal, 10% 4% Halidi 322, 25% Dallas</td>
</tr>
</tbody>
</table>

---

### ADDITIONAL CEMENTING/SQUEEZE RECORD

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Depth</th>
<th>Type of Cement</th>
<th># Sacks Used</th>
<th>Type and Percent Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perforate</td>
<td>Top</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protect Casing</td>
<td>Bottom</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plug Back TD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plug Off Zone</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### PERFORATION RECORD - Bridge Plugs Set/Type

Specify Footage of Each Interval Perforated

<table>
<thead>
<tr>
<th>Shots Per Foot</th>
<th>PERFORATION RECORD</th>
<th>Acid, Fracture, Shot, Cement Squeeze Record</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>3908-12</td>
<td>500 gal. MA &amp; 3000 gal. 20%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NE</td>
</tr>
</tbody>
</table>

---

### TUBING RECORD

<table>
<thead>
<tr>
<th>Size</th>
<th>Set At</th>
<th>Packer At</th>
<th>Liner Run</th>
<th>Producing Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 3/8</td>
<td>3968</td>
<td></td>
<td></td>
<td>Flowing, Pumping, Gas Lift</td>
</tr>
</tbody>
</table>

Date of First, Resumed Production, SWD or Injection: January 2, 1996

Producing Method: Flowing, Pumping, Gas Lift, Other (Explain)

Produced Method: Flowing, Pumping, Gas Lift, Other (Explain)

Estimated Production Per 24 Hours

<table>
<thead>
<tr>
<th>Oil</th>
<th>Bbls.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gas</th>
<th>Mcf</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water</th>
<th>Bbls.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gas-Oil Ratio</th>
<th>Gravity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Disposion of Gas: Vented, Sold, Used on Lease (If vented, submit ACD-18.)

METHOD OF COMPLETION

Production Interval

- Open Hole, Perf., Dually Comp., Commingled
- Other (Specify)
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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE
<table>
<thead>
<tr>
<th>REFERENCE NO.</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
<th>UNIT PRICE</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>000-117</td>
<td>MILEAGE CEMENTING ROUND TRIP</td>
<td>200 MI</td>
<td>2.75</td>
<td>747.50</td>
</tr>
<tr>
<td>001-016</td>
<td>CEMENTING CASING</td>
<td>1 UNT</td>
<td></td>
<td>1,670.00</td>
</tr>
<tr>
<td>030-016</td>
<td>CEMENTING PLUG 5W ALUM TOP</td>
<td>4 1/2 IN</td>
<td>45.00</td>
<td>180.00</td>
</tr>
<tr>
<td>018-315</td>
<td>MUD FLUSH</td>
<td>1 EA</td>
<td>325.00</td>
<td></td>
</tr>
<tr>
<td>314-163</td>
<td>CLAYFIX III</td>
<td>2 GAL</td>
<td>28.00</td>
<td>56.00</td>
</tr>
<tr>
<td>12A</td>
<td>GUIDE SHOE - 4 1/2&quot; BRD TD</td>
<td>1 EA</td>
<td>95.00</td>
<td>95.00</td>
</tr>
<tr>
<td>24A</td>
<td>INSERT FLOAT VALVE - 4 1/2&quot; 3RD</td>
<td>1 EA</td>
<td>73.00</td>
<td>73.00</td>
</tr>
<tr>
<td>815-19101</td>
<td>FILL-UP UNIT 4 1/2&quot; x 5&quot;</td>
<td>1 EA</td>
<td>45.00</td>
<td>45.00</td>
</tr>
<tr>
<td>815-19111</td>
<td>CENTRALIZER 4-1/2&quot; x 7-7/8</td>
<td>1 EA</td>
<td>50.00</td>
<td>50.00</td>
</tr>
<tr>
<td>504-130</td>
<td>CEMENT - 50/50 POZXIX STANDARD</td>
<td>30 SK</td>
<td>6.75</td>
<td>202.50</td>
</tr>
<tr>
<td>504-300</td>
<td>CEMENT - STANDARD</td>
<td>300 SK</td>
<td>8.86</td>
<td>2658.00</td>
</tr>
<tr>
<td>509-968</td>
<td>SALT</td>
<td>650 LB</td>
<td>0.15</td>
<td>97.50</td>
</tr>
<tr>
<td>507-775</td>
<td>HALAD-322</td>
<td>56 LB</td>
<td>7.00</td>
<td>392.00</td>
</tr>
<tr>
<td>507-970</td>
<td>D-AIR 1, POWDER</td>
<td>38 LB</td>
<td>3.25</td>
<td>123.50</td>
</tr>
<tr>
<td>508-127</td>
<td>CAL SEAL 60</td>
<td>38 LB</td>
<td>25.90</td>
<td>970.60</td>
</tr>
<tr>
<td>506-121</td>
<td>HALLIBURTON-GEL 2%</td>
<td>100 LB</td>
<td>0.00</td>
<td>N/C</td>
</tr>
<tr>
<td>507-277</td>
<td>HALLIBURTON-GEL BENTONITE</td>
<td>1 SK</td>
<td>16.60</td>
<td>16.60</td>
</tr>
<tr>
<td>500-207</td>
<td>BULK SERVICE CHARGE</td>
<td>190 CFT</td>
<td>1.35</td>
<td>256.50</td>
</tr>
<tr>
<td>500-306</td>
<td>MILEAGE CMTG MAT DEL OR RETURN</td>
<td>1253.670 TMI</td>
<td>95.00</td>
<td>119,759.99</td>
</tr>
</tbody>
</table>

**INVOICE SUBTOTAL**

**DISCOUNT (BID)**

**INVOICE AMOUNT**

**CONTINUED ON NEXT PAGE**
#2 WICKE
NW NW NE Sec. 36-1S-32W
Rawlins Co., KS

TOPS: Sample Log
Anhydrite 2557 + 229 2556 + 230
B. Anhydrite 2592 + 194 2591 + 195
Topeka 3636 - 750 3533 - 747
Heebner 3700 - 914 3699 - 913
Lansing 3730 - 944 3731 - 946
Lansing "J" 3908 -1122
Stark 3929 -1143
BKC 3993 -1207
LTD 4004 -1218
RTD 4000 -1214

Elevation: 2781 GL
2786 KB

10-7-95 MIRU
10-8 Ran 7 Jts. used 8 5/8", 28# casing set at 310.1 w/225 sx
60-40 poz, 2% gel, 4% cc. PD @ 9:45 PM 10-7. Drilling at 422'.
10-9 Drilling at 2,600'
10-10 Drilling at 3693'
10-11 Drilling at 3868'

DST #1 (D zone) 3745-3800'/30-30-30-30. Rec. 20' heavily
oil cut mud (35° oil) IFP 26-28, FFP 36-34, SIP 765-428.

10-12 DST #2 (J zone) 3880-3925'/30-30-45-60. Rec. 200' GIP,
50' clean gassy oil & 50' muddy oil (75% oil). IFP 28-30,
FFP 42-50, SIP 528-615.

10-13 Ran 4½", 10½# New casing set at 3,999 w/150 sx EA2 cement.
Good circulation. PD @ 3:00 PM the 12th.

10-30 Ran correlation and bond log. Top of cement 3260 - good
bond. Swabbed down to 3500'. Perforated 3908-12 - 4
shots/ft. Acidized w/500 gal. MA. Swabbed load and tested
4 BO, Tr Water in 1 hr.

10-31 Overnight filup 250' oil, no water.
Acidized w/3,000 gal. 20% NE. Swabbed load and tested
as follows: 1st hr - 12.76 BO, NW
2nd hr - 9.28 BO, NW
3rd hr. - 5.22 BO, NW
4th hr. 5.22 BO, NW

11-1 Overnight FU 400' oil. SI

FINAL REPORT

Produced 53 BO + Trace of water/24 hrs.

Produced 46 BO + Trace of water/24 hrs.

Produced 21 BO + Trace of water/24 hrs.

Produced 17 BO + Trace of water/24 hrs.