## Description of Well and Lease

**Operator:** Cities Service Oil & Gas Corp.  
**Address:** 3545 NW 59th Street, Oklahoma City, OK 73112  
**Operator Contact Person:** Raymond Rut  
**Phone:** (405) 949-4400  
**Contractor:** O. Rains & Williamson  
**Wellsite Geologist:**  
**Phone:**  
**Designate Type of Completion:**  
- [ ] New Well  
- [ ] Re-Entry  
- [ ] Workover  
- [ ] Oil  
- [ ] SWD  
- [ ] Temp Abd  
- [ ] Gas  
- [ ] Inj  
- [ ] Delayed Comp.  
- [ ] Dry  
- [ ] Other (Core, Water Supply etc.)  
**If OWWO: old well info as follows:**  
- **Operator:**  
- **Well Name:**  
- **Comp. Date:**  
- **Old Total Depth:**

### Well History

**Drilling Method:**  
- [ ] Mud Rotary  
- [ ] Air Rotary  
- [ ] Cable  
**9-25-84**  
**10-7-84**  
**11-6-84**  
**Spud Date:**  
**Date Reached TD:**  
**Completion Date:**  
**4710′**

**Total Depth:**  
**PBDT:**

**Amount of Surface Pipe Set and Cemented at 367′ feet**

**Multiple Stage Cementing Collar Used?**
- [ ] Yes  
- [ ] No

**If Yes, Show Depth Set:**

**If alternate 2 completion, cement circulated from **

---

### Water Supply Information

**Source of Water:**
- **Division of Water Resources Permit #**
- **Groundwater:**  
- **Wt North From Southeast Corner of (Wet)**
- **Wt. West From Southeast Corner of (Wet)**
- **Surface Water:**  
- **Wt North From Southeast Corner and (Stream, Pond etc.)**
- **Wt. West From Southeast Corner (Wet)**
- [ ] Other (explain): (purchased from city, R.W.D. #)

**Disposition of Produced Water:**
- [ ] Disposal  
- [ ] Repressuring

**Docket #**

---

### Instructions

This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rules 82-3-120 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 drillers time log shall be attached with this form. 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:** Helmut D. Olms  
**Title:** Engineering Manager  
**Date:** 11-15-84

Subscribed and sworn to before me this day of 1984.

Notary Public  
**Date Commission Expires:**  

---

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

Distribution
- [ ] KCC  
- [ ] SWD/Rep  
- [ ] NGPA  
- [ ] KGS  
- [ ] Plug  
- [ ] Other (Specify)

Form ACO-1  
(This form supersedes previous forms  
ACO-1 & C-10)
**WELL LOG**

**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, hydrotastic 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**
- XX Yes
- □ No

**Samples Sent to Geological Survey**
- □ Yes
- □ No

**Cores Taken**
- □ Yes
- □ No

**Formation**

<table>
<thead>
<tr>
<th>Name</th>
<th>Top</th>
<th>Bottom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heebner</td>
<td>4111</td>
<td></td>
</tr>
<tr>
<td>Lansing</td>
<td>4162</td>
<td></td>
</tr>
<tr>
<td>Marmaton</td>
<td>4463</td>
<td></td>
</tr>
<tr>
<td>Pawnee</td>
<td>4520</td>
<td></td>
</tr>
<tr>
<td>Fort Scott</td>
<td>4568</td>
<td></td>
</tr>
<tr>
<td>Cherokee</td>
<td>4604</td>
<td></td>
</tr>
</tbody>
</table>

**Top of cement at 3800’**

### CASING RECORD

- **Purpose of string**
  - Surface
  - Production

<table>
<thead>
<tr>
<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>12.1/4”</td>
<td>8.5/8”</td>
<td>24#</td>
<td>.367’</td>
<td>Class A</td>
<td>225</td>
<td>3% C.C.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>.47/6”</td>
<td>50/50 Poz.</td>
<td>200</td>
<td>10% salt 0.75%</td>
</tr>
</tbody>
</table>

### PERFORATION RECORD

<table>
<thead>
<tr>
<th>shots per foot</th>
<th>depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 sh/ft</td>
<td>4634-39’</td>
</tr>
</tbody>
</table>

**Acid, Fracture, Shot, Cement Squeeze Record**

- Acidized w/500 gallons, 10% MCA + 10% Terchek

### TUBING RECORD

- **size** 2 3/8” for 142 Jts
- **80’ AK**
- **Date of First Production** 11-6-84
- **Producing method** □ flowing □ pumping □ gas lift □ Other (explain)
- **Disposition of gas** □ vented □ sold □ used on lease

<table>
<thead>
<tr>
<th>Date of First Production</th>
<th>Producing method</th>
<th>Oil</th>
<th>Gas</th>
<th>Water</th>
<th>Gas-Oil Ratio</th>
<th>Gravity</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-6-84</td>
<td></td>
<td>66 Bbls</td>
<td>0 MCF</td>
<td>0 Bbls</td>
<td></td>
<td>CFPB</td>
</tr>
</tbody>
</table>

### METHOD OF COMPLETION

- □ open hole □ perforation
- Other (specify)

**PRODUCTION INTERVAL**

- □ Dually Completed
- □ Commingled