### WELL PLUGGING RECORD

**Phillips County, Sec. 33, Twp. 4, Rge. 20 (E) (W)**

Location as "NE/CN/W4/SE/W4" or footage from lines 3301SE 3301W of E/4 corner.

**Lease Owner:** Cities Service Oil Co.

**Lessee Name:** Harbison

**Office Address:** Bartlesville, Oklahoma

**Character of Well (completed as Oil, Gas or Dry Hole):** Dry Hole

**Date well completed:** 11/17/51

**Application for plugging filed:** 11/17/51

**Application for plugging approved:** 11/17/51

**Drilling commenced:** 11/17/51

**Drilling completed:** 11/18/51

**Reason for abandonment of well or producing formation:** dry

If a producing well is abandoned, date of last production is 10.

Was permission obtained from the Conservation Division or its agents before plugging was commenced? yes

Name of Conservation Agent who supervised plugging of this well: Mr. Eldon Petty

Producing formation: Arbuckle

Depth to top: 3560

Bottom: 3590

Total Depth of Well: 3590

Show depth and thickness of all water, oil and gas formations.

### OIL, GAS OR WATER RECORDS

<table>
<thead>
<tr>
<th>Formation</th>
<th>Contents</th>
<th>From</th>
<th>To</th>
<th>Size</th>
<th>Put In</th>
<th>Pulled Out</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arbuckle</td>
<td>dry</td>
<td>3560</td>
<td>3590</td>
<td>8-5/8</td>
<td>2021</td>
<td>0</td>
</tr>
</tbody>
</table>

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from feet to feet for each plug set.

Filled with mud to 180

set plug, dumped 15 ex. cement.

Mud to 40, set plug and cemented to surface.

### CASING RECORD

### STATE OF KANSAS, COUNTY OF BARTON

James Porter (employee of owner) or (employee of owner) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature)

Box 553, Russell, Kansas

My commission expires: 3-1-1955

Notary Public.

[Handwritten notes and signatures]
**WELL RECORD**

**Company:** Cities Service Oil Company  
**Well No.:** 1  
**Farm:**  
**Location:** 330’ South & 330’ West of E/R Corner  
**Sec.:** 13  
**T.:** A  
**R.:** 20W  
**Elevation:** 2099 (2097 Dr.)  
**County:** Phillips  
**State:** Kansas  
**Drlg. Comm.:** November 8, 1951  
**Contractor:** B. W. Mine Drilling Company  
**Drlg. Comp.:** November 17, 1951  
**Acid:** None  
**T. D.:** 3990’  
**Initial Prod.:** Dry Hole - Plugged and Abandoned 11-17-51.

**Completion Record:**
- 2-5/8” @ 202’ cen. 250 ft cement

**Peculation Record:**
- Clay & Shale: 0-160
- Shale: 202
- Shale, sand & shells: 1180
- Shale & Shells: 2265
- Shale: 2600
- Lime & Shale: 2730
- Shale & Lime: 2909
- Lime & Shale: 3075
- Shale & Lime: 3154
- Lime & Shale: 3235
- Lime: 3475
- Lime & Shale: 3527
- Lime: 3590 T. D.

**Topoka:** 3019’
**Hodgman:** 3205’
**Dodge:** 3230’
**Lansing:** 3250’
**Arbuckle:** 3560’
**Penetration:** 30’
**Total Depth:** 3590’

**Drill stem test 3231-56, open:**
- 1 hr., rec. 1360’ salt water; 15 min. B. H. F. 1000#.

**Drill stem test 3231-57, open:**
- 1 hr., rec. 645’ water; 15 min. B. H. F. 1200#.

**Drill stem test 3320-35, open:**
- 1 hr., rec. 12’ mud; 15 min. B. H. F. 460#.

**SIFD:**
- 500’ 0°
- 1000’ 0°
- 1500’ 0°
- 2000’ 1°
- 2500’ 1°
- 3000’ 1°

7-7/8” rotary hole.