STATE OF KANSAS
STATE CORPORATION COMMISSION
CONSERVATION DIVISION
800 HITTEN BUILDING
WICHITA, KANSAS

WELL PLUGGING APPLICATION FORM

Well Location (Sec. 27 Twp. 5 Rge. 20 (E) (W) West

Field Name (if any) Ray County Phillips

Lease (Farm Name) Hartshorn Well No. 1

Was well log filed with application? Yes If not, explain circumstances
and give available data (Use an additional sheet if necessary)

Log attached.

Date and hour plugging is desired to begin Immediately

Plugging of the well will be done in accordance with the Rules and Reg-
ulations of the State Corporation Commission, or with the approval of
the following exceptions: Explain fully any exceptions desired (Use an
additional sheet if necessary)

Name of the person on the lease in charge of well for owner

J. A. Cleaverly Address Russell, Kansas

Name of well owner or Acting Agent Cities Service Oil Company

Address Bartlesville, Oklahoma

Invoice covering assessment for plugging this well should be sent to:

Cities Service Oil Co. Address Box 751, Great Bend, Kansas

and payment will be guaranteed by applicant.

Operator or Acting Agent

Date (Confirming) Dec. 28, 1943

2-21-44
<table>
<thead>
<tr>
<th>Location</th>
<th>990' South and 950' West of Center</th>
<th>Sec.</th>
<th>27</th>
<th>T.</th>
<th>5</th>
<th>R.</th>
<th>20W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevation</td>
<td>2165</td>
<td>County</td>
<td>Phillips</td>
<td>State</td>
<td>Kansas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial Prod.</td>
<td>Dry - Plugged and Abandoned</td>
<td>Contractor</td>
<td>H. W. Rine Drilling Co.</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Acid</td>
<td>3000 gals. 3321-23 and 3347-58; 2000 gals. 3321-23</td>
<td>Drilled Comm.</td>
<td>Oct. 9, 1943</td>
<td></td>
<td></td>
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</tbody>
</table>

**Casing Record:**

- 5-5/8" @ 158' cem. 125 ax cement
- 5-1/2" @ 3639' cem. 150 ax cement
  - Pulled 2626' of 5-1/2" cem.

**Formation Record:**

- Clay 0-20
- Sand 50
- Shale 1185
- Shale & Sand 1570
- Shale 1665
- Anhydrite 1700
- Shale 2045
- Shale & Lime 2280
- Shale & Shells 2365
- Shale & Lime 2505
- Shale & Shells 2610
- Shale 2760
- Shale & Lime 2860
- Shale & Shells 3115
- Shale & Lime 3215
- Lime 3630 T. D.

**Plugging:**

- Top Limestone 3321' 1
- Top Gorham 3397' 1
- Top Arbuckle 3617' 1
- Penetration 13'
- Total Depth 3630' 1

**Drilled cement to 3614 FLM; perf. 60 shots 3996-3608; 4 gals. fluid per hour.**

- Perf. 12 shots 3608-10; 125' strk., 10 mins., 200' water in 40 mins., 350' water in 3-3/4 hrs.
- Set Lane-Wells bridge plug at 3569 FLM.

**Perf. 60 shots 3347-58; ½ bailer; muddy water in ½ hour. Perf. 12 shots 3321-23; 1/3 bailer fluid (small show oil) in ½ hr., 15 gals. water and 2 gals. oil in 1 hr.**

**Perf. 24 shots 3503-07, no increase. Perf. 24 shots 3302-08, no increase.**

**Plugged back to 3476 FLM with crushed rock and 2 ax cement. Set packer at 3313 and acidized with 3000 gals.**

**Perf. 2½ bbl. fluid (25% water) per hr. Set packer at 3310 and 3343, and acidized 3321-23 with 2000 gals. Perf. 3½ bbl. fluid (80% water) per hour.**

**Slope Test (Acid Bottle):**

<table>
<thead>
<tr>
<th>Depth</th>
<th>OK</th>
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</thead>
<tbody>
<tr>
<td>500'</td>
<td>OK</td>
</tr>
<tr>
<td>1000'</td>
<td>OK</td>
</tr>
<tr>
<td>1500'</td>
<td>OK</td>
</tr>
<tr>
<td>2000'</td>
<td>OK</td>
</tr>
<tr>
<td>2500'</td>
<td>OK</td>
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</tbody>
</table>
Well No. 1
Farm Hartshorn
Description SW NE NW 27-5-26W
County Phillips
File 1032

Cities Service Oil Co.
Box 751
Great Bend, Kansas

Gentlemen:

This letter is your permit to plug the above subject well, in accordance with the Rules and Regulations of the STATE CORPORATION COMMISSION.

Very truly yours,

STATE CORPORATION COMMISSION

T. A. MORGAN, DIRECTOR
CONSERVATION DIVISION

By:

J. P. Roberts

NOTICE:

C. T. Alexander-Great Bend, Ks.

PLEASE ADDRESS ALL CORRESPONDENCE TO CONSERVATION DIVISION