WELL PLUGGING RECORD
15-153-00015-00-00

Rawlins County, Sec. 18, Twp. 33, Rge. (E) 32 (W)

Location as NE/NW or SW/SW from line... SW/4 SW/4 SW/4

Lease Owner: Skelly Oil Company

Lease Name: J. W. Koppus

Office Address: Box 1650, Tulsa, Oklahoma

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

Date well completed: April 8, 1959

Application for plugging filed April 8, 1959

Application for plugging approved April 9, 1959

Drilling commenced April 8, 1959

Drilling completed April 9, 1959

Reason for abandonment of well or producing formation None

If a producing well is abandoned, date of last production: Yes

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: M. D. Fabricius

Producing formation: None

Depth to top: 1,641 Feet

Total Depth of Well: 1,641 Feet

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

OIL, GAS OR WATER RECORDS

<table>
<thead>
<tr>
<th>FORMATION</th>
<th>CONTENT</th>
<th>FROM</th>
<th>TO</th>
<th>OD SIZE</th>
<th>PUT IN</th>
<th>PULLED OUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arbuckle Lime</td>
<td>No shows</td>
<td>4,480'</td>
<td>8-5/8&quot;</td>
<td>405'/6&quot;</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Reagan Sand</td>
<td>Dry</td>
<td>4,572'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-Cambrian</td>
<td>No shows</td>
<td>4,620'</td>
<td></td>
<td></td>
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</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:

25 sacks of cement 4,641' to 4,560'
Mud laden fluid 4,560' to 3,971'
25 sacks of cement 3,971' to 3,890'
Mud laden fluid 3,890' to 4,100'
25 sacks of cement 4,100' to 3,33'
Mud laden fluid 3,33' to 75'
25 sacks of cement 75' to 6'
Surface soil 6' to 0'

Name of Plugging Contractor: Claude Wentworth Drig. Co., Inc.
Address: 2701 East 15th, Tulsa, Oklahoma

STATE OF Kansas COUNTY OF Reno

H. E. Wamsley (employee of owner), Subscribed and Sworn to before me this 28th day of April, 1959

My commission expires April 7, 1963

Conservation Division

FILE SEC. 33 T. 18 R. 32
BOOK PAGE 30 LINE 40
<table>
<thead>
<tr>
<th>FORMATION</th>
<th>TOP</th>
<th>BOTTOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cretaceous, clay sediments</td>
<td>0</td>
<td>110</td>
</tr>
<tr>
<td>Sand</td>
<td>222</td>
<td>228</td>
</tr>
<tr>
<td>Black shale</td>
<td>224</td>
<td>248</td>
</tr>
<tr>
<td>Sand</td>
<td>406</td>
<td>2225</td>
</tr>
<tr>
<td>shale and sand</td>
<td>2225</td>
<td>2275</td>
</tr>
<tr>
<td>Red shales</td>
<td>2076</td>
<td>2186</td>
</tr>
<tr>
<td>Line and shales</td>
<td>2165</td>
<td>2730</td>
</tr>
<tr>
<td>Lime</td>
<td>3650</td>
<td>3870</td>
</tr>
<tr>
<td>White, fine medium crystalline line</td>
<td>3497</td>
<td>3413</td>
</tr>
<tr>
<td>Lime</td>
<td>3463</td>
<td>3474</td>
</tr>
<tr>
<td>White, crypto-crystalline line</td>
<td>3494</td>
<td>3476</td>
</tr>
<tr>
<td>Line</td>
<td>3476</td>
<td>3501</td>
</tr>
<tr>
<td>White line, crypto to fine crystalline, fossiliferous</td>
<td>3501</td>
<td>3530</td>
</tr>
<tr>
<td>Lime</td>
<td>3590</td>
<td>3534</td>
</tr>
<tr>
<td>Line</td>
<td>3596</td>
<td>3618</td>
</tr>
<tr>
<td>Line and shale</td>
<td>3950</td>
<td>3950</td>
</tr>
<tr>
<td>Riff, fine medium crystalline line, fossiliferous</td>
<td>3950</td>
<td>3963</td>
</tr>
<tr>
<td>Line and shale</td>
<td>3963</td>
<td>3972</td>
</tr>
<tr>
<td>Line and shale</td>
<td>3973</td>
<td>3975</td>
</tr>
<tr>
<td>Fine, white crystalline line, calcite</td>
<td>4056</td>
<td>4063</td>
</tr>
<tr>
<td>Lime</td>
<td>4066</td>
<td>4071</td>
</tr>
</tbody>
</table>

**REMARKS**

- **Top: 21-1/2" steel casing and 1/2" slacks of Portland cement with 1/2" of Portland loam cement circulated. Finished cementing at 8:00 p.m., 3/17/59.**

**UP GRIPPEY LINE 3741**

- Fair porosity and oil stained.

**UP LIVING LINE 3303**

- Slight porosity, dead oil stained.

**Up Halliburton drill stem test No. 2, with two packers.**

- Top packer set at 3617', used 24" anchor, open 2 hours, weak blow at anchor, 40' of mud, 1200' of muddy water, oil pressure 0, 90' of anchor.

**Up Halliburton drill stem test No. 3, with two packers.**

- Top packer set at 3617', used 24" anchor, open 2 hours, weak blow at anchor, 40' of mud, 1200' of muddy water, oil pressure 0, 90' of anchor.

**Up Halliburton drill stem test No. 4, with two packers.**

- Top packer set at 3617', used 24" anchor, open 2 hours, weak blow at anchor, 40' of mud, 1200' of muddy water, oil pressure 0, 90' of anchor.

**Up Halliburton drill stem test No. 5, with two packers.**

- Top packer set at 3617', used 24" anchor, open 2 hours, weak blow at anchor, 40' of mud, 1200' of muddy water, oil pressure 0, 90' of anchor.
Page 2

Lime
White, fine crystalline
line, chalky

4107 4109

4109 4113

4113 4120

Fine vuggy porosity, spotted
light stain

Ken Halliburton drill stem
test No. 7, packer set at
4040', used 30' anchor, open
1 hour, weak blow for 2
minutes, recovered 1' of free oil and
2' of heavily oil cut mud,
IVF-1100' in 20 minutes, IVF-0',
FFP-1100' in 30 minutes.

Lime and shale

4120 4307

4307 4309

White dense line

4309 4443

Conglomerate
White to red, medium
crystalline plagioclase
dolomite

4443 4466

4466 4500

Good porosity, no oil shows,
slightly sandy near base

Ken Halliburton drill stem
test No. 9, packer set at
4442', used 55' anchor, open
1 hour, strong blow to weak
blow throughout test, recovered
35.90' of sandy mud, no
oil, IVF-1100' in 30 minutes,
IVF-6100', FFP-11000', FFPH-
11000' in 20 minutes.

Sand

4500 4566

4566 4573

Line, shale and sand

4573 4594

Lime and shale

4594 4610

4610 4620

Red mottled crystalline
granite with slight
fractures

4620 4641

TOTAL DEPTH 4641'

Since no commercial zones of oil or gas production were encountered
in drilling to the depth of 4641', regular authority was granted to
plug and abandon the well as follows:

25 sacks of cement
Red latex fluid
25 sacks of cement
Red latex fluid
25 sacks of cement
Red latex fluid
25 sacks of cement
Red latex fluid
25 sacks of cement
Surface soil

4641' to 4660'
3870' to 3900'
3760' to 4100'
3760' to 3930'
3660' to 3770'
75' to 6'
6' to 0'

Plugged and abandoned April 7, 1959.
<table>
<thead>
<tr>
<th>Depth</th>
<th>Angle of Deflection</th>
</tr>
</thead>
<tbody>
<tr>
<td>100'</td>
<td>1/8 degree</td>
</tr>
<tr>
<td>1050'</td>
<td>1/8</td>
</tr>
<tr>
<td>1300'</td>
<td>1/8</td>
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<tr>
<td>2145'</td>
<td>1/8</td>
</tr>
<tr>
<td>2274'</td>
<td>1/8</td>
</tr>
<tr>
<td>2736'</td>
<td>1/8</td>
</tr>
<tr>
<td>2795'</td>
<td>1/8</td>
</tr>
<tr>
<td>3297'</td>
<td>1/8</td>
</tr>
<tr>
<td>4500'</td>
<td>1/8</td>
</tr>
</tbody>
</table>