WELL PLUGGING RECORD

Comanche County, Sec. 17, Twp. 33s, Rgn. 20 (E) W (W)
Location as "NE/NE/NE/SW" or footage from lines 13201 FS & ELIs of Section
Lease Owner: Northern Natural Gas Co.
Lease Name: Shraunear
Well No. 1-17
Office Address: P.O. Box 35288 Tulsa, Oklahoma 74135
Character of Well (completed as Oil, Gas or Dry Hole): Dry Hole
Date well completed: January 15, 1978
Application for plugging filed: January 16, 1978
Application for plugging approved: January 16, 1978
Plugging commenced: January 16, 1978
Plugging completed: January 16, 1978
Reason for abandonment of well or producing formation: Dry Hole

If a producing well is abandoned, date of last production: January 15, 1978
Was petroleum obtained from the Conservation Division or its agents before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well: Bill Graham, Box 369, Pratt, Kansas
Producing Formation: Depth to top: 8,735', Bottom: 7,660', Total Depth of Well: 7660', 12'
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>FORM</th>
<th>TO</th>
<th>SIZE</th>
<th>PUT IN</th>
<th>POURED OUT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>20'</td>
<td>60'</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8,735'</td>
<td>650</td>
<td>None</td>
<td></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.

Heavy mud from T.D. to 600' 60 sacks from 600' to 600'
10 sacks from 600' to surface
3 sacks in set hole
3 sacks in mouse hole

Heavy mud placed between plugs

Name of Plugging Contractor: Rine Drilling Co.
Address: Woodward, Oklahoma 73801

STATE OF

COUNTY

(employee of owner) or (owner or operator) 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) Frank W. Ward

Sworn to and subscribed before me this 23rd day of January, 1978

My commission expires: February 12, 1978

P. F. Martin
Notary Public.
KANSAS DRILLERS LOG

API No. 15 — 033 — 20,233

Operator
Northern Natural Gas Co.

Address
P.O. Box 35288 Tulsa, Oklahoma 74135

Well No.
#1-17

Footage Location
1320 feet from (E) (S) line 1320 feet from (E) (W) line

Principal Contractor
Rine Drilling Company

Spud Date
12/15/77

Date Completed
1/16/78

CASING RECORD

Report of all strings set — 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 cement</th>
<th>Sacks</th>
<th>Type and percent additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>12 1/4&quot;</td>
<td>8 5/8&quot;</td>
<td>24.00</td>
<td>642</td>
<td>HLC</td>
<td>75</td>
<td>3% CaCl₂</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Comm</td>
<td>200</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Topped out w/ 25 sx common &amp; 100 sx HLC</td>
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</tbody>
</table>

PERFORATION RECORD

Shots per ft.

TUBING RECORD

Size

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used

INITIAL PRODUCTION

Date of first production

Dry Hole

Producing method (flowing, pumping, gas lift, etc.)

RATE OF PRODUCTION

PER 24 HOURS

Oil

Gas

Water

Gas-oil ratio

Producing interval(s)

Disposition of gas (vented, used on lease or sold)

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Driller's Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 1630 S. Meridian (P.O. Box 17027), Wichita, Kansas 66217. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Driller's Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.
Operator: Northern Natural Gas Company

Well No: 1-17

Lease Name: Shrauner

Designate Type of Comp.: Dry Hole

WELL LOG

Show all important zones of porosity and contents thereof: cored intervals, and all drill-sonic tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

<table>
<thead>
<tr>
<th>FORMATION DESCRIPTION, CONTENTS, ETC.</th>
<th>TOP</th>
<th>BOTTOM</th>
<th>NAME</th>
<th>DEPTH</th>
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<tbody>
<tr>
<td>Herington-Krider</td>
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<td></td>
<td>2349</td>
<td></td>
</tr>
<tr>
<td>Winfield</td>
<td></td>
<td></td>
<td>2420</td>
<td></td>
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<tr>
<td>Base Heebner Shale</td>
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<td></td>
<td>4189</td>
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<tr>
<td>Lansing-K.C.</td>
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<td>Base Lansing-Kansas City</td>
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<td>Morrow (Nt. (No Morrow)</td>
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<td>5159</td>
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<td>Mississippian</td>
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<td>1st Simpson</td>
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<td>Reagan</td>
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</table>

Ran Schlumberger DIL & FDC/CNL

Date Received

Signature

Director, Production & Engineering

Title

January 23, 1978

Date