KANSAS DRILLERS LOG

API No. 15 — 163 — 22,898 — O 0 O

Operator
Apache Corporation

Address
1700 Lincoln, Suite 4900, Denver, Colorado 80203-4549

Well No. 10
Lease Name Walker-Miller

Footage Location
1980 feet from (N) (S) line 660 feet from (E) (W) line

Principal Contractor
Emphasis Oil

Geologist
Chuck Rhoades

Spud Date
November 8, 1986

Total Depth
3225'

P.B.T.D.
N/A

Date Completed
December 3, 1986

Oil Purchaser
Farmland Industries

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string | Size hole drilled | Size casing set (in O.D.) | Weight lbs/ft | Setting depth | Type cement | Sacks | Type and percent additives
--- | --- | --- | --- | --- | --- | --- | ---
Conductor | 17-1/2" | 13-3/8" | 54.5 | 98' | Class "A" | 100 | 3% CaCl₂; 2% gel
Surface | 12-1/4" | 8-5/8" | 32 | 1808' | 50/50 Pozmix | 450 | 3% CaCl₂, 2% gel
Production | 7-7/8" | 5-1/2" | 15.5" | 3224' | 40/60 Pozmix | 170 | 2% gel, 10% salt 1/4# Flocculate & 3/4# CFR-2

LINER RECORD

Top, ft. | Bottom, ft. | Sacks cement
--- | --- | ---

PERFORATION RECORD

Shots per ft. | Size & type | Depth interval
--- | --- | ---

TUBING RECORD

Size | Setting depth | Packer set at
--- | --- | ---

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used

Depth interval treated

INITIAL PRODUCTION

Date of first production
11/22/86

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

RATE OF PRODUCTION

Oil | Gas | Water | Gas-oil ratio
--- | --- | --- | ---
33 bbls | 0 MCF | 116 bbls | --

producing interval(s)

Disposal of gas (vented, used on lease or sold)
N/A

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, 3830 So. Meridian (P.O. Box 170271), Wichita, Kansas 66217. Phone (316) 552-2266. If confidential custody is desired, please note Rule 82-2-122. Driller's Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.
**WELL LOG**

Show all important zones of porosity and contents thereof; cored intervals, and all drill-item 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>
</tr>
</thead>
<tbody>
<tr>
<td>DST #1 L-KC 5'-30'-60'-120''</td>
<td>3026'</td>
<td>3037'</td>
<td>Anhydrite</td>
<td>1140'</td>
</tr>
<tr>
<td>Rec. 125' muddy wtr with oil specks</td>
<td></td>
<td></td>
<td>Topeka</td>
<td>2682'</td>
</tr>
<tr>
<td>15' heavy mud with oil specks</td>
<td></td>
<td></td>
<td>Hebner</td>
<td>2892'</td>
</tr>
<tr>
<td>ISIP 219</td>
<td></td>
<td></td>
<td>Toronto</td>
<td>2914'</td>
</tr>
<tr>
<td>FSIP 211</td>
<td></td>
<td></td>
<td>L-KC</td>
<td>2936'</td>
</tr>
<tr>
<td>IFF 27-27</td>
<td></td>
<td></td>
<td>Base L-KC</td>
<td>3162'</td>
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<tr>
<td>FFP 31-79</td>
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<td></td>
<td>Arbuckle</td>
<td>3221'</td>
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<tr>
<td>TFP 1617</td>
<td></td>
<td></td>
<td>LTD</td>
<td>3222'</td>
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<tr>
<td>FHP 1559</td>
<td></td>
<td></td>
<td>RTD</td>
<td>3225'</td>
</tr>
</tbody>
</table>

**USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.**

Date Received

Signature: Carolyn L. Neal

Title: Engineering Tech

Date: 3/31/87