API NO. 15 163-22,343-00-00

County   ...Rooks...
NE/SE/SE  Sec.18   Twp.7-S   Rge.17-W
(Section)  990   Ft North from Southeast Corner of Section
   330   Ft West from Southeast Corner of Section
   (Note: locate well in section plat below)

Lease Name  H.A. Brown  Well # 2
Field Name  Riffe
Producing Formation  ...K.C.
Elevation:  Ground  1757  KB  1762

Designate Type of Completion
  X New Well  □ Re-Entry  □ Workover
  □ Oil  □ SWD  □ Temp Abd
  □ Gas  □ Inj  □ Delayed Comp.
  □ Dry  □ Other (Core, Water Supply etc.)

If OWWO: old well info as follows:
   Operator  ...
   Well Name  ...
   Comp. Date  Old Total Depth

WELL HISTORY

Drilling Method:  X Mud Rotary  □ Air Rotary  □ Cable

4-7-84  4-14-84  6-1-84
Spud Date  Date Reached TD  Completion Date
3365  3265...
Total Depth  PBDT

Amount of Surface Pipe Set and Cemented at 1219 feet

Multiple Stage Cementing Collar Used?  □ Yes  X No

If Yes, Show Depth Set  .......

if alternate 2 completion, cement circulated from  .......  feet depth to...

Water Supply Information

Source of Water:
Division of Water Resources Permit #
Groundwater  Ft North from Southeast Corner and (Well)
   Ft. West from Southeast Corner of
Sec  Twp  Rge  □ East  □ West
   □ Surface Water  Ft North From Southeast Corner and (Stream, Pond etc.)
   Ft West From Southeast Corner
Sec  Twp  Rge  □ East  □ West
   X Other (explain)  City of Stockton (purchased from city, R.W.D. #)

Disposition of Produced Water:
   X Disposal  □ Repressuring
Docket #  CD-28317 (6-21-754)

Instructions: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recombination of any well. Rules 82-3-130 and 82-3-107 apply.

Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months.

One copy of all wireline logs and drillers time log shall be attached with this form. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules, and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature  ... 

Date  7-6-84
Notary Public  ...

Date Commission Expires  May 30, 1988

K.C.C. Office Use Only
F □ Letter of Confidentiality Attached
   C □ Wireline Log Received
   □ Drillers Timelog Received
Distribution
   KCC □ SWD/Rep  □ NOPA
   KGS □ Plug  □ Other (Specify)

Form ACO-1 (7-84)
**WELL LOG**

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, test tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

<table>
<thead>
<tr>
<th>Drill Stem Tests Taken</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samples Sent to Geologic Survey</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Cores Taken</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Formation</th>
<th>Description</th>
<th>Log</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand &amp; Clay</td>
<td>0</td>
<td>217</td>
<td></td>
</tr>
<tr>
<td>Sand &amp; Shale</td>
<td>217</td>
<td>587</td>
<td></td>
</tr>
<tr>
<td>Sand &amp; Shale</td>
<td>587</td>
<td>915</td>
<td></td>
</tr>
<tr>
<td>Sand &amp; Shale</td>
<td>915</td>
<td>1026</td>
<td></td>
</tr>
<tr>
<td>Shales</td>
<td>1026</td>
<td>1206</td>
<td></td>
</tr>
<tr>
<td>Anhydrite</td>
<td>1206</td>
<td>1240</td>
<td></td>
</tr>
<tr>
<td>Shales</td>
<td>1240</td>
<td>1367</td>
<td></td>
</tr>
<tr>
<td>Shales</td>
<td>1367</td>
<td>1725</td>
<td></td>
</tr>
<tr>
<td>Shales &amp; Lime</td>
<td>1725</td>
<td>1846</td>
<td></td>
</tr>
<tr>
<td>Shales &amp; Lime</td>
<td>1846</td>
<td>2153</td>
<td></td>
</tr>
<tr>
<td>Shales &amp; Lime</td>
<td>2153</td>
<td>2479</td>
<td></td>
</tr>
<tr>
<td>Shales &amp; Lime</td>
<td>2479</td>
<td>2603</td>
<td></td>
</tr>
<tr>
<td>Shales &amp; Lime</td>
<td>2603</td>
<td>2740</td>
<td></td>
</tr>
<tr>
<td>Shales &amp; Lime</td>
<td>2740</td>
<td>2756</td>
<td></td>
</tr>
<tr>
<td>Lime &amp; Shale</td>
<td>2756</td>
<td>2923</td>
<td></td>
</tr>
<tr>
<td>Lime &amp; Shale</td>
<td>2923</td>
<td>3043</td>
<td></td>
</tr>
<tr>
<td>Lime &amp; Shale</td>
<td>3043</td>
<td>3194</td>
<td></td>
</tr>
<tr>
<td>Lime &amp; Shale</td>
<td>3194</td>
<td>3300</td>
<td></td>
</tr>
<tr>
<td>Arbuckle</td>
<td>3300</td>
<td>3330</td>
<td></td>
</tr>
<tr>
<td>Arbuckle</td>
<td>3330</td>
<td>3365</td>
<td></td>
</tr>
<tr>
<td>Arbuckle</td>
<td>3365</td>
<td>R.T.D.</td>
<td></td>
</tr>
</tbody>
</table>

**CASING RECORD**

<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 of cement</th>
<th># sacks used</th>
<th>type and percent additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Casing</td>
<td>12 1/4&quot;</td>
<td>8 5/8&quot;</td>
<td>24#</td>
<td>1210'</td>
<td>60-40 Fig. 300</td>
<td>2% Gal, 3% Ca</td>
<td></td>
</tr>
<tr>
<td>Production</td>
<td>7 7/8&quot;</td>
<td>5 1/2&quot;</td>
<td>14#</td>
<td>3344'</td>
<td>60-40 Fig. 140</td>
<td>6% Gilsonite</td>
<td></td>
</tr>
</tbody>
</table>

**PERFORATION RECORD**

<table>
<thead>
<tr>
<th>shots per foot</th>
<th>specify footage of each interval perforated</th>
<th>Acid, Fracture, Shot, Cement Squeeze Record (amount and kind of material used)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3043-3046</td>
<td>2250 Gal., Reg., 15% Acid</td>
</tr>
<tr>
<td>2</td>
<td>3105-3108</td>
<td>750 Gal., 15% Acid</td>
</tr>
<tr>
<td>2</td>
<td>3148-3150</td>
<td>2500 Gal., 15% Acid</td>
</tr>
</tbody>
</table>

**TUBING RECORD**

Size | 2 7/8 |
Set at | 3250 |
Packer at | Liner Run  Yes |

**Date of First Production**

<table>
<thead>
<tr>
<th>Producing method</th>
<th>6-1-84</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing</td>
<td>flowing</td>
</tr>
<tr>
<td></td>
<td>pumping</td>
</tr>
<tr>
<td></td>
<td>gas lift</td>
</tr>
<tr>
<td></td>
<td>Other (explain)</td>
</tr>
</tbody>
</table>

**Estimated Production**

<table>
<thead>
<tr>
<th>Oil</th>
<th>Gas</th>
<th>Water</th>
<th>Gas-Oil Ratio</th>
<th>Gravity</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>None</td>
<td>184</td>
<td>CFPB</td>
<td>35</td>
</tr>
</tbody>
</table>

**METHOD OF COMPLETION**

<table>
<thead>
<tr>
<th>Disposition of gas</th>
<th>24 HR, Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>vented</td>
<td>DDally Completed</td>
</tr>
<tr>
<td>sold</td>
<td>Committed</td>
</tr>
</tbody>
</table>

**PRODUCTION INTERVAL**

<table>
<thead>
<tr>
<th>METHOD OF COMPLETION</th>
<th>24 HR, Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>open hole</td>
<td></td>
</tr>
<tr>
<td>other (specify)</td>
<td></td>
</tr>
</tbody>
</table>

**1000 Bills**