STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15-068-22,318 0000

Graham County

SE NW SE 12 Tp. 26 Rge. 21 N W 1

1650 Ft North from Southeast Corner of Section

FT West from Southeast Corner of Section

(Not Locate well in section plot below)

Lease Name: HOLSMA 13-12

Field Name: Wildcat

Producing Formation:

Elevation: Ground 2189' NSB 2194'

WELL HISTORY

Drilling Method: X Mud Rotary __ Air Rotary __ Cable

IF-28/28... IF-28/28... IF-28/28

Spud Date Date Reached TD Completion Date

3000' Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 297 feet
Multiple Stage Cementing Collar Used Y N

Yes, show depth set______________feet

If alternate 2 completion, cement circulated from______________feet to______________W/S/SX cast

Cement Company Name

Invoice #

WATER SUPPLY INFORMATION

Disposal of Produced Water: __ Disposal __ Repressuring

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water: Division of Water Resources Permit #

Groundwater... Ft North from Southeast Corner

Well... Ft West from Southeast Corner of

Sec Twp Rge... East West

Surface Water... Ft North from Southeast Corner

Stream, pond etc... Ft West from Southeast Corner

Sec Twp Rge... East West

Other (explain)______________________________

(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 220 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 OP-4 form with all plugged wells. Submit OP-11 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: James D. Keiling
Title: Coord., Eng. Operations U.S.  Date: 8/4/86

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Drillers Time Log Received

Distribution

KCC __ SM/Rep __ NSPA

KGS __ Plug __ Other (Specify)

Form ACO-1 (5-86)
INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time 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 Geological Survey</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Core Taken</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**DST #1:** 3392-3442', 10/45/30/30, IPP 21/21, wk ½' blo ISIP 1062, FFP 32/32 no blo PSIP 987. Rec'd 90' drlg mud.

**DST #2:** 3493-3532', 10/45/60/90, IPP 78/78 blo built to 7' in 10 min, ISIP 882, FFP 137/285 blo building to btm of bucket in 20 in. PSIP 882 Rec'd 248' WCM, 120' MOW, 182' SW.

**DST #3:** 3576-3616', 10/45/30/30. IPP 59/49 wk build to 1' in 10 min, ISIP 746, FFP 39/29, wk blo died in 8 min, PSIP 619. Rec'd 10 SOCM.

**FORMATION DESCRIPTION**

<table>
<thead>
<tr>
<th>Name</th>
<th>Top</th>
<th>Bottom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stone Corral Anhydrite</td>
<td>1886</td>
<td>(+308)</td>
</tr>
<tr>
<td>Topeka</td>
<td>3187</td>
<td>(-993)</td>
</tr>
<tr>
<td>Heebner</td>
<td>3397</td>
<td>(-1203)</td>
</tr>
<tr>
<td>Toronto</td>
<td>3420</td>
<td>(-1226)</td>
</tr>
<tr>
<td>Lansing-Kansas City</td>
<td>3433</td>
<td>(-1239)</td>
</tr>
<tr>
<td>Arbuckle</td>
<td>3771</td>
<td>(-1517)</td>
</tr>
</tbody>
</table>

**CASING RECORD**

- **Report all strings set-conductor, 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 of Cement</th>
<th>#Sacks Used</th>
<th>Percent Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURFACE</td>
<td>125'</td>
<td>8-5/8'</td>
<td>744</td>
<td>JUL</td>
<td>JUM</td>
<td>40%</td>
<td>A &amp; B, X &amp; Cl</td>
</tr>
</tbody>
</table>

**PERFORATION RECORD**

- **Shots Per Foot**
- **Specify footage of each interval perforated**
- **Acid, Fracture, Shot, Cement Squeeze Record**
  - **(Amount and kind of material used)**
  - **Depth**

**TUBING RECORD**

<table>
<thead>
<tr>
<th>Size</th>
<th>Set At Packer</th>
<th>Liner Run</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

**Date of First Production**

**Producing Method**

- **Flowing**
- **Pumping**
- **Gas Lift**
- **Other (explain)**

<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>Bbls</td>
<td>MCF</td>
<td>Bbls</td>
<td>CFPB</td>
<td></td>
</tr>
</tbody>
</table>

**METHOD OF COMPLETION**

- **Disposition of gas:**
  - Vented
  - Sold
  - Used on Lease

- **Open Hole**
- **Perforation**
- **Other (Specify)**

- **Dually Completed**
- **Cummingled**
WELL LOG

PanCanadian Petroleum Company
P.O. Box 929
Denver, Colorado 80201
Holsman 13-12

3800'
06-26-86
07-02-86

Murfin Drilling Company
250 N. Water, Suite 300
Wichita, Kansas 67202

10
12
13

8 - 5/8" set @ 302' w/210 sx Class H, 2% Gel, 20 lb

State of KANSAS
County of SEDGWICK

Robert A. Ramseyer, Jr. of the Murfin Drilling Company

upon oath state that the above and foregoing is a true and correct copy of the log of the #1 Holsman 13-12 well.

Subscribed and sworn to before me this 10th day of July 1986.

Rhonda R. Hudson
NOTARY PUBLIC

My Commission Expires: 11-18-87

AUG 7, 1986