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

Operator: License # 4069
Name: Koch
Address: 150 S. Fourth Financial Center,
Wichita, KS 67202
City/State/Zip:

Purchaser: Koch
Wichita, KS

Operator Contact Person: Gary Shaw
Phone: (316) 266-1100

Contractor/License #: 6033
Name: Muffin Drilling Company
Phone: (316) 944-2973

Wellsite Geologist: Doug Davle
Phone: (316) 944-2973

Designate Type of Completion
X New Well __ Re-Entry __ Workover

Oil __ SWD __ Gas __ Temp Nbd
Dry __ Other (Core, Water Supply etc.)

IT OWNO: old well Info as follows:
Operator
Well Name
Comp. Date
Old Total Depth

WELL HISTORY
Drilling Method: Mud Rotary __ Air Rotary __ Cable

4/7/88 __ 4/19/88
Spud Date __ Date Reached TD __ Completion Date
5/19/88 __ 5/19/88

4666' __ 5280'
Total Depth __ PTD

8-5/8" @ 321'
Amount of Surface Pipe Set and Cemented at:
Multiple Stage Cementing Collar Used? Yes __ No
If yes, show depth set __
If alternate 2 completion, cement circulated from:

Cement Company Name
Invoice #

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 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 logs 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: Anita Walker
Title: Operations Secretary
Date: 8/2/88

Subscribed and sworn to before me this 2 day of August, 1988.

Date Commission Expires: 12/31/89

BETTY B. HERRING
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 12/31/89

K-C-G-C OFFICE USE ONLY

Letter of Confidentiality Attached

Drillers Time Log Received

Distribution

KCC __ SWD/Rept __ NDPA
KGS __ Plug __ Other (Specify)
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.

**Drill Stem Tests Taken**
- DST #1: 3719-93' (Wabaunsee) 30-30-30-30
  - Rec 960' SW w/upks oil in tool.
  - IH: 1927'
  - IFP: 1927'
  - ISIP: 1093'
  - FFP: 402-466#
  - FSIP: 1083#
  - FHP: 1822#
  - BHT: 116f

- DST #2: 3848-3908' (Oread) 30-60-30-60
  - Rec 15'M, ns.
  - IH: 1958'
  - IFP: 95-95'
  - ISIP: 1156'
  - FFP: 105-105'
  - FSIP: 1156'
  - FHP: 1927'
  - BHT: 120f

(Continued on attached page.)

**Casing Record**
- X New
- X Used

**Report all strings set-conductor, surface, intermediate, production, etc.**

<table>
<thead>
<tr>
<th>Purpose of String</th>
<th>Size Hole</th>
<th>Size Casing</th>
<th>Weight</th>
<th>Setting</th>
<th>Type of Cement</th>
<th>%Sacks</th>
<th>Percent Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>122'</td>
<td>A-5/2A</td>
<td>240</td>
<td>32'</td>
<td>60-40-20-10-12C</td>
<td>22</td>
<td>13</td>
</tr>
<tr>
<td>Production</td>
<td>10-12'</td>
<td>10-12</td>
<td>34</td>
<td>48'</td>
<td>Royolite</td>
<td>300</td>
<td>75</td>
</tr>
<tr>
<td>Perforation</td>
<td>10-12'</td>
<td>10-12</td>
<td>34</td>
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<td>Royolite</td>
<td>300</td>
<td>75</td>
</tr>
</tbody>
</table>

**Acid, Fracture, Shot, Cement Squeeze Record**
- Acid: 150 gal. 15% HCl
- Fracture: 4000 gal. 15% SGA
- Squeeze: 4000 gal. 15% SGA & 4500 gal.

**Tubing Record**
- Size: 2-3/8"
- Set At: 4168'
- Pack at Liner Run: Yes

**Date of First Production**
- 5/26/88

**Producing Method**
- Flowing
- Pumping
- Gas Lift
- Other (explain)...

**Estimated Production**
- Par 24 Hours: 33 Bbls, 2 MCF, 4133-36'...

**Method of Completion**
- Production Interval: 4133-36'

**Disposition of Gas**
- Vented
- Produced
- Used on Lease
- Open Hole
- Perforation
- Other (Specify)...

**Gravity**
- 2 Bbls CFPB

**Casing Completion**
- Dusty Completed
- Commingled

**Gas-Oil Ratio**...
TIGHT HOLE!

ACO-1 (continued)

#2 Timm
API #15-153-20,710
Jay Boy Oil, Inc.

DST's (continued)

DST #3: 3958-4012' (50' Zone) 30-30-30-30
Rec 1' FO, 149' VSOCM (120)

IHP: 1998#
IPF: 137-137#
ISIP: 1083#
FFP: 148-148#
FSIP: 989#
FHP: 1958#
BHT: 112f

DST #4: 4003-24' (70' Zone) 30-60-30-60
Rec 20' FO, 65' OCMW (520, 502W)

IHP: 2094#
IPF: 105-105#
ISIP: 1114#
FFP: 105-105#
FSIP: 1052#
FHP: 2031#
BHT: 122f

DST #5: 4022-44' MISRUN

DST #6: 4010-44' (100') Zone) 30-60-30-60
Rec 95' Gey OCM (320)

IHP: 2135#
IPF: 137-158#
ISIP: 843#
FFP: 158-169#
FSIP: 832#
FHP: 2031#
BHT: 124f

DST #7: 4056-4100' (Lansing 140') 30-60-30-60
Rec 15'M w/tr oil.

IHP: 2125#
IPF: 105-105#
ISIP: 602#
FFP: 105-105#
FSIP: 296#
FHP: 2115#
BHT: 124f

DST #8: 4098-4140 (Lansing 160, 180)
30-60-30-60
Rec 100' FO, 60' OCM (1520),
60' OCM (1030)

IHP: 2156#
IPF: 105-137#
ISIP: 1187#
FFP: 137-148#
FSIP: 1156#
FHP: 1094#
BHT: n/a

DST #9: 4166-85' (Lansing 200')
30-60-30-60
Rec 160'M w/few spots oil in tool

IHP: 2104#
IPF: 95-116#
ISIP: 1270#
FFP: 127-127#
FSIP: 1208#
FHP: 1094#
BHT: 126f

DST #10: 4180-4200' (Lansing 220')
30-30-30-30
Rec 45'M, ns.

IHP: 2135#
IPF: 74-74#
ISIP: 1166#
FFP: 84-84#
FSIP: 1125#
FHP: 2115#
BHT: 127f

DST #11: 4412-4504' (Cke) 30-30-30-30
Rec 2400' SW, ns

IHP: 2648#
IPF: 1260-1281#
ISIP: 1291#
FFP: 1291-1291#
FSIP: 1291#
FHP: 2596#
BHT: 136f

been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Anita Walker
Title: Operations Secretary
Date 3/3/88

[Signature]
Notary Public
Date Commission Expires: 7-25-87

WICHITA BRANCH

KANSAS: COMMERCIAL SURVEY, Inc.

AUG 03 1988

BETTY B. HERRING
NOTARY PUBLIC
STATE OF KANSAS
My Amt. Exp. 10-27-89

Form ACO-1 (5-86)