

*Red*  
**RELEASED**

**JUN 1 1987**

**STATE CORPORATION COMMISSION OF KANSAS  
FROM CONFIDENTIAL CONSERVATION DIVISION**

*S, C*  
SIDE ONE

*5/4/87  
20-6-22w KCC*

**WELL COMPLETION OR RECOMPLETION FORM  
ACO-1 WELL HISTORY**

**DESCRIPTION OF WELL AND LEASE**

Operator: License # 8000  
Name PANCANADIAN PETROLEUM COMPANY  
Address P.O. Box 929  
City/State/Zip Denver, CO 80201

Purchaser.....

Operator Contact Person Tom Rubis  
Phone (303) 825-8371

Contractor: License # 6033  
Name Murfin Drilling Company

Wellsite Geologist Paul Laird  
Phone (316) 267-4464

**Designate Type of Completion**

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:

Mud Rotary     Air Rotary     Cable

1/29/86                    2/3/86                    2/4/86  
Spud Date                    Date Reached TD                    Completion Date  
4025'                    surface  
Total Depth                    PBTD

Amount of Surface Pipe Set and Cemented at 303 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set.....feet  
If alternate 2 completion, cement circulated  
from.....feet depth to.....w/.....SX cmt

API NO. 15-065-22,284  
County.....Graham  
.....C.....NW.....NE.....Sec. 20.....Twp. 6S.....Rge. 22..... East  
..... West

4620  
.....Ft North from Southeast Corner of Section  
1980  
.....Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Lease Name.....WHITE 31-20.....Well #.....1.....

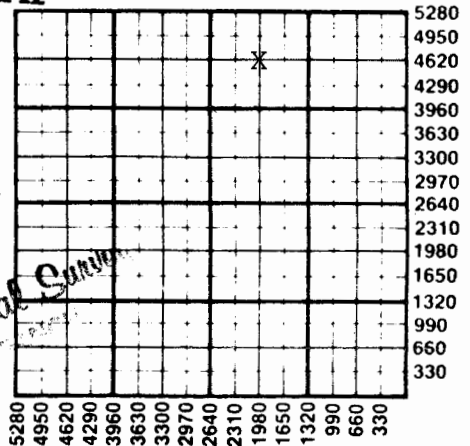
Field Name.....Pen.....

Producing Formation.....none.....

Elevation: Ground.....2371'.....KB.....2376'.....

**CONFIDENTIAL**

**Section Plat**



*MAR 10 1985*

*State Geological Survey*

**WATER SUPPLY INFORMATION**

Disposition of Produced Water:  Disposal  
Docket # .....  Repressuring

Questions on this portion of the ACO-1 call:  
**Water Resources Board (913) 296-3717**

Source of Water:  
Division of Water Resources Permit #.....T8679.....

Groundwater 4290 Ft North from Southeast Corner  
(Well) 2310 Ft West from Southeast Corner of  
SW NW NE Sec 20 Twp 6S Rge 22  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 duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 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

SIDE TWO

Operator Name PANCANADIAN PETROLEUM COMPANY Lease Name WHITE 31-20 Well # 1

Sec. 20 Twp. 6S Rge. 22  East  West County Graham

WELL LOG

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  Yes  No  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

Formation Description  
 Log  Sample

CORE 3763-93':  
 3763-64': shale - gray, limey  
 3764-68': shale - red  
 3768-72': limestone - gray, w/rags filled w/red shale bleeding small amt of oil  
 3772-78': shale - red, much broken w/slicken sides  
 3778-80': limestone - very shaley w/numerous rags filled w/red shale  
 3780-88': limestone - light gray, dense, less shaley few scattered spots of bleeding oil  
 3788-90': limestone - light gray, hard, dense  
 3790-92': shale - gray, hard, limey  
 3792-93': shale - gray, broken  
 DST #1: Depth: 3757-93', "I" & "J" zones, 15-45-60-90  
 1st open: weak blow, 1/2" in bucket  
 2nd open: No blow  
 Recovery: 5' oil cut mud (10% oil and 90% mud)  
 IFP: 20/20 #; ISIP: 30#; IHP: 1913#; FFP: 20/20#;  
 FSIP: 20#; FHP: 1895; Temp: 108°F.

| Name             | Top   | Bottom |
|------------------|-------|--------|
| Anhydrite        | 2017' |        |
| Heebner          | 3585' |        |
| Toronto          | 3610' |        |
| Lansing/KC       | 3625' |        |
| "B" zone         | 3659' |        |
| "D" zone         | 3676' |        |
| "H" zone         | 3747' |        |
| "I" zone         | 3768' |        |
| "J" zone         | 3780' |        |
| Base Kansas City | 3818' |        |
| Conglomerate     | 3880' |        |
| Arbuckle         | 3926' |        |
| Total Depth      | 4025' |        |

| CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used |   |                           |                | Report all strings set-conductor, surface, intermediate, production, etc. |                |             |                             |
|---|---|---------------------------|----------------|---|----------------|-------------|-----------------------------|
| Purpose of String   | Size Hole Drilled                           | Size Casing Set (in O.D.) | Weight Lbs/Ft. | Setting Depth   | Type of Cement | #Sacks Used | Type and Percent Additives  |
| Surface.....  | 12 1/4"                                     | 8-5/8"                    | 24#            | 303'  | common         | 250         | 2% gel.....<br>3% CaCl..... |
| .....   | .....                                       | .....                     | .....          | .....   | .....          | .....       | .....                       |
| .....   | .....                                       | .....                     | .....          | .....   | .....          | .....       | .....                       |
| .....   | .....                                       | .....                     | .....          | .....   | .....          | .....       | .....                       |
| PERFORATION RECORD  |   |                           |                | Acid, Fracture, Shot, Cement Squeeze Record                               |                |             |                             |
| Shots Per Foot  | Specify Footage of Each Interval Perforated |                           |                | (Amount and Kind of Material Used)  |                | Depth       |                             |
| .....   | .....                                       |                           |                | .....   |                | .....       |                             |
| .....   | .....                                       |                           |                | .....   |                | .....       |                             |
| .....   | .....                                       |                           |                | .....   |                | .....       |                             |
| .....   | .....                                       |                           |                | .....   |                | .....       |                             |
| TUBING RECORD   |   |                           |                | Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No        |                |             |                             |
| Size  | Set At                                      | Packer at                 |                |   |                |             |                             |