

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 # 8000
Name PanCanadian Petroleum Company
Address P.O. Box 929
City/State/Zip Denver CO 80201

Purchaser

Operator Contact Person J.D. Keisling
Phone (303) 825-8371

Contractor: License # 6033
Name Murfin Drilling Company

Wellsite Geologist J.E. Holdeman
Phone (303) 825-8371

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

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

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

11/7/86 11/12/86 N/A 11-12-86
Spud Date Date Reached TD Completion Date

3945' N/A
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 302 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
Cement Company Name
Invoice #

API NO. 15-065-22333-00-00

County Graham

C NW SW Sec 20 Twp 6 Rge 22 East
X West

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

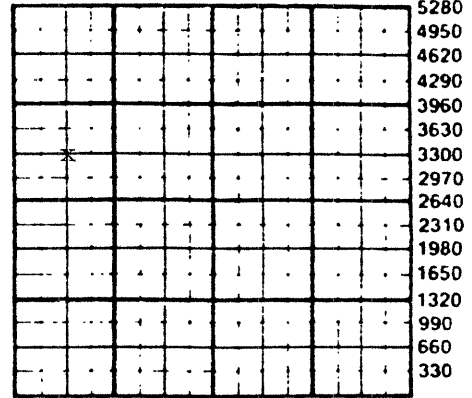
Lease Name Brown 13-20 Well # 1

Field Name Pen

Producing Formation N/A

Elevation: Ground 2393 KB 2398

Section Plat



12-24-86

STATE CORPORATION COMMISSION

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal Repressuring
Docket # N/A
Wichita, Kansas

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit # T86-5824

Groundwater 4260 Ft North from Southeast Corner
4260 Ft West from Southeast Corner
Sec 20 Twp 6 Rge 22 East X West

Surface Water Ft North from Southeast Corner
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, 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 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 M.C. Miller

Title Coordinator Reservoir Engineering U.S. Date 12/22/86

Subscribed and sworn to before me this 22nd day of December 1986

Notary Public Barbara Wolf

Date Commission Expires My Commission Expires February 29, 1988

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

Sec. 20 Twp. 6 Rge. 22

SIDE TWO

Operator Name PanCanadian Petroleum Company Lease Name Brown 13-20 Well # 1

Sec. 20 Twp. 6 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

DST #1: 3808-3777' 15-45-15-15
 IFP 42/31 wk blo died in 15 min
 FFP 31/31 no blo
 ISIP 94 FSIP 42 IHP 1993 FHP 1980
 BHT 109° Rec'd: 5' OCM

DST #2: 3835-3777' 15-45-60-90
 IFP 42/42 wk blo
 FFP 42/43 wk blo inerg to 1½" in 60 min
 ISIP 941 FSIP 875 IHP 1993 FHP 1972
 BHT 109° Rec'd: 62' mud

Name	Top	Bottom
Stone Corral Anhydrite	2038	
Topeka	3404	
Heebner	3604	
Toronto	3629	
Lansing-Kansas City	3646	
Conglomerate	3921	

RELEASED

JAN 13 1988

FROM CONFIDENTIAL

1-13-88

CASING RECORD <input 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 csg	12½"	8-5/8"	24	302	common	205	2% gel 3% CaCl ₂

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			
Size	Set At	Packer at	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First Production	Producing Method				
	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....				
	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	Bbls	MCF	Bbls	CFPB	

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease

Dually Completed
 Commingled