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File: 6460-4520-59240-09

Ref.: 980374

Encal Project (03)

Mr. Geoffrey W. Beatson, P. Eng. Encal Energy Ltd.

1800, 421 Seventh Avenue SW Calgary, AB T2P 4K9

Dear Mr. Beatson:

RE: APPLICATION FOR AMENDMENT TO PRESSURE MAINTENANCE APPROVAL; OAK CECIL "E" POOL

This refers to your application dated March 31, 1998 wherein you requested an amendment to the waterflood pressure maintenance scheme in the Oak Cecil "E" oil pool.

Your request to add another water injector at 11-33-86-18 W6M to create a water fence between the oil/gas interface is considered appropriate. A review of the Progress Report No. 2 confirms that the waterflood has been very successful in this pool. Consequently, your application is hereby approved. Attached is Approval # 96-09-002 (Amendment #2) for the application, granted under Section 100 of the <u>Petroleum and Natural Gas Act</u>.

Please note that the voidage calculations must continue to be submitted in the Progress Report.

Yours sincerely,

B. van Oort, P. Eng.

Director

Engineering and Operations Branch

Attachment

APPROVAL 96-09-002 (AMENDMENT #2)

THE PROVINCE OF BRITISH COLUMBIA PETROLEUM AND NATURAL GAS ACT MINISTRY OF ENERGY AND MINES ENERGY AND MINERALS DIVISION

IN THE MATTER of a pressure maintenance scheme of Encal Energy Ltd. (Encal) for waterflood recovery of oil by water injection into the Oak Cecil "E" Pool.

The approval granted pursuant to Section 100 (previously Sec. 116) of the <u>Petroleum and Natural Gas Act</u>, hereby amended as follows:

- 1. The pressure maintenance scheme of Encal for waterflood recovery of oil from the Oak Cecil "E" Pool as such scheme is described in the application from Encal to the Ministry dated March 11, 1996, July 31, 1997 and supplemented with the additional application dated March 31, 1998 is hereby approved, subject to the terms herein contained.
- 2. The pressure maintenance scheme area shall be delineated by NW/4 Section 17, Section 20, W/2 Section 28, S/2 and NE/4 Section 29, and Section 33-86-18 W6M.
- 3. The project oil production for a month shall be based on the previous month's voidage replacement.
- 4. Water may be injected into the Oak Cecil "E" Pool through the wells 3-20, 9-29 and 11-33-86-18 W6M.
- 5. The injection pressure at the sandface must not exceed the formation fracture pressure.
- 6. All associated gas production will be conserved.
- 7. An oil well may be drilled anywhere within the scheme area provided that it is not nearer than 100m to the sides of the scheme area.
- 8. Progress reports shall be filed as stipulated in Part 9, Section 108 of the *British Columbia Drilling and Production Regulation*.
- 9. The operations of the pressure maintenance scheme will be subject to periodic review, and modification to the approval may be ordered, if deemed appropriate, by the Director of the Engineering and Operations Branch.

Bou van Oort, P. Eng

Director

Engineering and Operations Branch

DATED AT the City of Victoria, in the Province of British Columbia, this /7 day of April, 1998.