



January 21, 1997

File: 7000-4800-59240-09  
970109

Ms. Cassandra Lai  
Exploitation Engineer  
Canadian Natural Resources Limited  
2000, 425-1st Street S.W.  
Calgary, AB T2P 3L8

CNRL PROJECT (03)

Dear Ms. Lai:

**Re: Application For Waterflood Pressure Maintenance Approval  
Peejay West Halfway "A" Pool**

This refers to your application dated November 5, 1996 wherein you requested approval of a waterflood pressure maintenance scheme in the subject oil pool.

Attached is Approval # 96-09-007 for the application, granted under section 116 of the *Petroleum and Natural Gas Act*.

The Concurrent Production scheme Approval # 96-07-004 previously granted for this pool is hereby rescinded.

Yours sincerely,

B. van Oort, P. Eng.  
Director  
Engineering and Operations Branch

PSA/RGS/cb

Attachment

**Copies of Approval Letter to Industry (11)**  
**RE: GEP, Salt Water Disposals, etc.**

- D.L. Johnson
- Data Management
- R. Stefik
- D. Richardson
- Wellfile (originals)
- 59240
- Resource Revenue
- P.S. Attariwala
- G. Farr
- S. Chicorelli
- Daily

APPROVAL 96-09-007

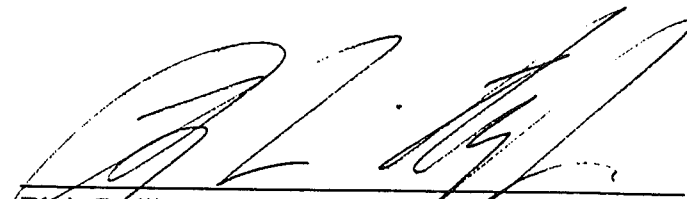
THE PROVINCE OF BRITISH COLUMBIA  
PETROLEUM AND NATURAL GAS ACT  
MINISTRY OF EMPLOYMENT AND INVESTMENT  
ENERGY AND MINERALS DIVISION

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IN THE MATTER of a pressure maintenance scheme of Canadian Natural Resources Limited (CNRL) for waterflood recovery of oil by water injection into the Peejay West Halfway "A" pool.

The Minister of Employment and Investment, pursuant to section 116 of the *Petroleum and Natural Gas Act*, hereby orders as follows:

1. The pressure maintenance scheme of CNRL for waterflood recovery of oil from the Peejay West Halfway "A" pool as such scheme is described in the Application from CNRL to the Ministry dated November 5, 1996 is hereby approved, subject to the terms herein contained.
2. The area of the pressure maintenance scheme shall consist of units 32, 33, 42-44, 53, 54, 64 and 65 of Block G/94-A-15.
3. The project oil allowable is 80.0 m<sup>3</sup>/d.
4. Water may be injected into the wells c-33-G and d-44-G/94-A-15.
5. The scheme shall be deemed to have commenced upon water being injected into the wells referred to in clause 4, with the Division being notified in writing of the date of commencement.
6. The injection pressure at the sandface must not exceed the formation fracture pressure.
7. Equipment must be installed at the well head of water injection wells to ensure that fracturing of the formation does not occur.
8. All associated gas production must be conserved.
9. An oil well may be drilled anywhere within the project area provided that it is not completed nearer than 100 m to the sides of the project area.
10. Progress reports shall be filed as stipulated in Part 9, section 108 of the British Columbia Drilling and Production Regulation.
11. 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.



Blair Redlin, on behalf of the  
Minister of Employment and Investment

DATED AT the City of Victoria, in the Province of British Columbia, this 27<sup>th</sup> day of December, 1996.