



March 4, 2002

5500-6200/7400-32640-02
OGC - 02044

Nina Lee
Exploitation Engineer
Canadian Natural Resources Limited
2500, 855 - 2nd Street S.W.
Calgary, AB T2P 4J8

Dear Ms. Lee:

**RE: APPLICATION FOR SALT WATER DISPOSAL
CNRES Ladyfern c-A82-G/94-H-1, (WA 14923); Belloy and Debolt**

The Commission has reviewed your application dated January 25, 2002 requesting permission to dispose of produced water into the Belloy and Debolt formations of a proposed well located at c-A82-G/94-H-1.

Based on all the information available from the well c-82-G/94-H-1 (WA 14021), we concur that the proposed well would be a good candidate for salt water disposal in the upper Belloy and Debolt formations. Notice of your application was published in two issues of the BC Gazette. As no written objections were received, your application is approved.

Attached are Approvals 02-02-003 and 02-02-004 for the application granted under Part 8, Division 3, Section 94 of the *Drilling and Production Regulation* for the Belloy and Debolt formations, respectively.

Sincerely,

Craig Gibson, P. Eng.
Manager
Reservoir Engineering and Geology

Approval Letters to Industry
GEP, SWD, CONCURRENT PROD,
PRESSURE MAINTENANCE,
WATERFLOOD, ETC.

Copy 9

<input type="checkbox"/>	Wellfile (originals)
<input type="checkbox"/>	59240
<input type="checkbox"/>	Daily
<input type="checkbox"/>	Resource Revenue
<input type="checkbox"/>	S. Chicorelli
<input type="checkbox"/>	R. Stefik
<input type="checkbox"/>	G. Farr
<input checked="" type="checkbox"/>	P. Attariwala
<input type="checkbox"/>	D. Krezanoski

Attachments

ENGINEERING AND GEOLOGY BRANCH

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APPROVAL 02-02-004

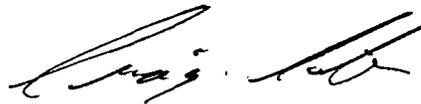
**THE PROVINCE OF BRITISH COLUMBIA
PETROLEUM AND NATURAL GAS ACT
DRILLING AND PRODUCTION REGULATION
OIL AND GAS COMMISSION**

IN THE MATTER of a scheme of Canadian Natural Resources Limited (CNRL) for Salt Water Disposal (SWD) in the Debolt formation in the proposed well CNRES Ladyfern c-A82-G/94-H-1 (WA 14923).

NOW, THEREFORE, pursuant to Part 8, Division 3, Section 94 of the *Drilling and Production Regulation*, the SWD scheme is hereby approved, as such scheme is described in

an application from CNRL to the Commission dated January 25, 2002.

1. The water disposal interval must be in the Debolt formation.
2. A record of volume of salt water disposed of through this well must be included on a Monthly Injection/Disposal Statement, in the prescribed form (BC-S18), which must be submitted to the Oil and Gas Commission not later than the 25th day of the month following the reported month.
3. The disposal/injection pressure at the sandface must not exceed the formation fracture pressure.
4. This approval may be modified or rescinded if deemed appropriate through a change in circumstances.



Craig Gibson
Manager
Reservoir Engineering and Geology
Oil and Gas Commission

DATED AT the City of Victoria, in the Province of British Columbia, this 5th day of March 2002.

APPROVAL 02-02-003

**THE PROVINCE OF BRITISH COLUMBIA
PETROLEUM AND NATURAL GAS ACT
DRILLING AND PRODUCTION REGULATION
OIL AND GAS COMMISSION**

IN THE MATTER of a scheme of Canadian Natural Resources Limited (CNRL) for Salt Water Disposal (SWD) in the Belloy formation in the proposed well CNRES Ladyfern c-A82-G/94-H-1 (WA 14923).

NOW, THEREFORE, pursuant to Part 8, Division 3, Section 94 of the *Drilling and Production Regulation*, the SWD scheme is hereby approved, as such scheme is described in

an application from CNRL to the Commission dated January 25, 2002.

1. The water disposal interval must be in the Belloy formation.
2. A record of volume of salt water disposed of through this well must be included on a Monthly Injection/Disposal Statement, in the prescribed form (BC-S18), which must be submitted to the Oil and Gas Commission not later than the 25th day of the month following the reported month.
3. The disposal/injection pressure at the sandface must not exceed the formation fracture pressure.
4. This approval may be modified or rescinded if deemed appropriate through a change in circumstances.



Craig Gibson
Manager
Reservoir Engineering and Geology
Oil and Gas Commission

DATED AT the City of Victoria, in the Province of British Columbia, this 9th day of March 2002.