



January 22, 2001

5500-7400-32640-02
OGC – 01013

Mr. Kevin Jensen, P. Eng.
Senior Petroleum Engineer,
Murphy Oil Company Limited
P.O. Box 2721
Calgary, AB T2P 3Y3

Dear Mr. Jensen:

**RE: APPLICATION FOR SALT WATER DISPOSAL
Murphy Beau Shell Ladyfern b-17-I/94-H-1; Debolt Formation; (WA 12431)**

The Commission has reviewed your application dated December 22, 2000 requesting permission to dispose of produced water into the Debolt formation of the subject well.

We concur that the well b-17-I/94-H-1 is a good candidate for salt water disposal into the Debolt formation. Notice of your application was published in two issues of the BC Gazette. As no written objections were received, your application is approved as submitted.

Attached is Approval 01-02-004 for the application granted under Part 8, Division 3, Section 94 of the *Drilling and Production Regulation*.

Sincerely,

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

Attachment

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

Copy 9

- Wellfile (originals)
- 59240
- Daily
- Resource Revenue
- S. Chicorelli
- R. Stefik
- G. Farr
- P. Attariwala
- D. Krezanoski

ENGINEERING AND GEOLOGY BRANCH

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Location: 6th Flr 1810 Blanshard St. Victoria BC

APPROVAL 01-02-004

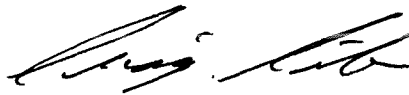
**THE PROVINCE OF BRITISH COLUMBIA
PETROLEUM AND NATURAL GAS ACT
DRILLING AND PRODUCTION REGULATION
OIL AND GAS COMMISSION**

IN THE MATTER of a scheme of Murphy Oil Company Limited (Murphy) for Salt Water Disposal (SWD) in the Debolt formation in the well Murphy Beau Shell Ladyfern b-17-I/94-H-1 (WA# 12431).

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 Murphy to the Commission dated December 22, 2000.

1. The water disposal interval must be in the Debolt formation (1319.5-1403.5 mKB).
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 22nd day of January, 2001.