



December 21, 2001

6230-4535-59240-09

OGC - 01251

Sara A. Michalski, T.T.  
Technologist, Exploitation Department  
Devon Canada Corporation  
Home Oil Tower  
1600, 324 - 8<sup>th</sup> Avenue S.W.  
Calgary, AB T2P 2Z5

*Devon Project (03)*

Dear Ms. Michalski:

**RE: WATERFLOOD PRESSURE MAINTENANCE APPROVAL  
MUSKRAT BOUNDARY LAKE "A" POOL**

Attached is a waterflood pressure maintenance scheme approval for the subject pool, as requested in your application dated November 22, 2001.

The Approval 01-09-005 for the application is granted under Section 100 of the Petroleum and Natural Gas Act.

Pressure maintenance by water injection in the pool should significantly improve oil recovery from this pool. No objections were received following the publication of a notice of the application in the B.C. Gazette.

This approval replaces the Good Engineering Practice Approval 97-06-012 (Amendment #2) granted on April 9, 1999.

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

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APPROVAL 01-09-005

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


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IN THE MATTER of a pressure maintenance scheme of Devon Canada Corporation (Devon) for recovery of oil by water injection in the Muskrat Boundary Lake "A" Pool.

NOW THEREFORE, the Commission, pursuant to Section 100 of the Petroleum and Natural Gas Act, R.S.B.C. 1996, c.361 orders as follows:

The pressure maintenance scheme of Devon for recovery of oil by waterflooding the Muskrat Boundary Lake "A" Pool as described in the application from Devon to the Commission dated November 22, 2001 is approved, subject to the following terms:

1. The project area of the pressure maintenance scheme consists of sections 13 and 14-87-18 W6M.
2. The reserves based project daily oil allowable is 156.0 m<sup>3</sup>.
3. Water may be injected into the Muskrat Boundary Lake "A" pool through the wells A7-14 (bottom hole location 11-14) and 3-13-87-18 W6M.
- \* 4. The scheme is deemed to have commenced upon water being injected into the wells referred to in clause 3. (April 12, 2002)
5. The Commission must be notified in writing of the date of commencement.
6. The injection pressure measured at the sandface must not exceed the formation fracture pressure.
7. An oil well may be completed anywhere within the project area provided that it is not nearer than 100 m to the sides of the project area.
8. Progress reports shall be filed as stipulated in Section 8 of the *Petroleum and Natural Gas General 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.

  
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Craig Gibson  
Manager  
Reservoir Engineering and Geology

DATED AT the City of Victoria, in the Province of British Columbia, this 21<sup>st</sup> day of December, 2001.