



BRITISH COLUMBIA

March 23, 1998

File: 6230-4535-59240-06
980322

Mr. David Moore, P. Eng.
Sr. Reservoir Engineer
Numac Energy Inc.
Energy Plaza
321 6th Ave SW
Calgary AB T2P 3H3

Numac Project (02)

Dear Mr. Moore:

RE: GOOD ENGINEERING PRACTICE APPROVAL AMENDMENT #1
MUSKRAT BOUNDARY LAKE "A" POOL

Attached is an amendment to the Good Engineering Practice (GEP) scheme approval for the subject pool, as requested in your application of February 10, 1998.

The Approval 97-06-012 (Amendment #1) is hereby granted under Part 8, Division 6, section 104 of the British Columbia *Drilling and Production Regulation*. The project oil allowable has been increased from 68.7 m³/d to 78.7 m³/d to reflect additional oil allowable for the new well A7-14-87-18 WM6 (WA 10801) drilled within the scheme area.

This approval is intended to allow operational flexibility for producing lower GOR wells and allow the drilling of wells without spacing and target considerations for development of the pool. This pool appears to be a good candidate for secondary scheme; therefore, the Ministry encourages Numac Energy Inc. to evaluate the feasibility of a secondary production scheme. Should an enhanced recovery scheme not be proposed within the following year, reservoir performance will be reviewed and this approval may be modified or rescinded.

Yours sincerely,

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

Attachment

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

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

Craig Gibson



APPROVAL 97-06-012 (AMENDMENT #1)

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

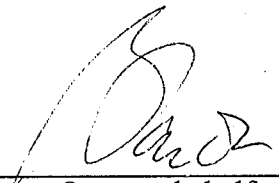
IN THE MATTER of a Good Engineering Practice (GEP) scheme of Numac Energy Inc. (Numac) for producing the Muskrat Boundary Lake "A" pool under a pool oil allowable and without well spacing and target restrictions.

NOW, THEREFORE, the Division Head, pursuant to Part 8, Division 6, section 104 of the *Drilling and Production Regulation*, hereby approves an amendment to the GEP project of Numac for producing with a pool allowable and drilling wells without spacing and target restrictions, as such scheme is described in

an Application from Numac to the Division dated February 10, 1998 and related submission.

This project is approved, subject to the conditions herein contained and in particular:

1. The area of the scheme shall consist of sec 13 and 14 Twp 87 Rge 18 W6M.
2. The project oil allowable, being the sum of the individual well allowables, is 78.7 m³/d.
3. The requirements of section 9 of the *Drilling and Production Regulation* are hereby waived, provided that oil wells within the scheme area are not completed nearer than 100 m to the sides of the approved area.
4. This approval may be modified or rescinded at a later date if deemed appropriate.



B. van Oort, on behalf of
the Division Head
Energy and Minerals Division

DATED AT the City of Victoria, in the Province of British Columbia, this 23rd day of March, 1998.