



VICTORIA

December 11, 1968

*Original w/ Approval*

Canadian Superior Oil Ltd.,  
703 Sixth Avenue S.W.,  
Calgary, Alberta.

Attention: Mr. D. L. Bohannan

Dear Mr. Bohannan:

RE: Application for Waterflood  
Scheme and MPR, Inga Unit 1

*(dated October 4, 1968)*

This is to advise that your application for installation of a waterflood scheme in Inga Unit 1 is approved. This approval is granted under Section 117 of the Petroleum and Natural Gas Act, 1965, and is subject to the following conditions:

- 1) Water will be injected into the following wells:  
16-32-87-23-W6M, 16-33-87-23-W6M, 6-6-88-23-W6M,  
6-16-88-23-W6M, 6-18-88-23-W6M, 6-30-88-23-W6M,  
6-12-88-24-W6M, 16-24-88-24-W6M, 1-36-88-24-W6M,  
c-16-J/94-A-12.

*also these wells at same date*  
16-6-87-23 }  
6-8-87-23 } all in T88.  
6-9-88-23 }

*both re-issued  
see letter July 28/1970*

- 2) Water will be injected at rates sufficient to maintain balanced or negative net fluid withdrawals, measured at reservoir conditions.
- 3) The project MPR will be 7064 BOPD, effective on the first day of the month during which injection begins.
- 4) A monthly operations report will be filed with the P & NG Branch, within sixty days of the end of the report month. This report will present:

- (a) a summary of monthly and cumulative production and injection data
- (b) a summary of monthly and cumulative reservoir withdrawal and replacement data
- (c) a graphical reservoir history, showing complete production and injection data for the project

...continued....



1966  
1967

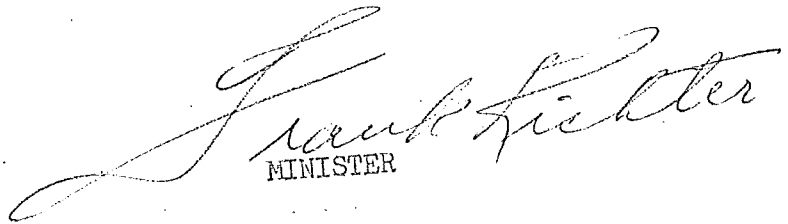
CENTENARY OF THE UNION OF THE COLONIES OF VANCOUVER ISLAND AND BRITISH COLUMBIA UNDER THE NAME BRITISH COLUMBIA  
CENTENARY OF THE CONFEDERATION OF CANADA

- 5) An annual progress report will be filed with the P & NG Branch, within sixty days of the end of the report year. This report will contain:
- (a) the daily average rate, during each month, of the oil production from each producing well and the Unit as a whole
  - (b) the average GOR and WOR, during each month, from each producing well and from the Unit as a whole
  - (c) the monthly and cumulative gas, oil and water production from each producing well and from the Unit as a whole
  - (d) the daily average rate of fluid injection, during each month, into each injection well and into the Unit as a whole
  - (e) the weighted average wellhead injection pressure, during each month, for each injection well
  - (f) the monthly and cumulative volumes of water injected into each injection well, and into the Unit as a whole
  - (g) details of any reservoir pressure surveys made during the report period, together with appropriate isobaric maps and volumetrically-weighted average Unit pressures (at least one such survey per year is required, with adequate areal coverage)
  - (h) monthly and cumulative reservoir withdrawal balance calculations
  - (i) details of any workover or well treatment programs carried out during the report period
  - (j) a general review of operations during the report period
  - (k) details of any treatment of injected water and means of maintaining quality control.

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- 6) The operation of the pressure maintenance scheme will be subject to periodic review and as a consequence the Chief of the P & NG Branch may issue general or specific orders regarding the operation of the scheme.
- 7) This approval is subject to review and amendment if deemed necessary.

Yours truly,

  
MINISTER