

January 18, 2001

7600-4520-59240-09 OGC-01009

David Cronkhite Chief Engineer Encal Energy Ltd. Box 2310, Station M CALGARY, AB T2P 2M6

Encal Project (03)

Dear Mr. Cronkhite:

RE: WATERFLOOD PRESSURE MAINTENANCE APPROVAL (AMENDMENT #3) RIGEL CECIL 'H' POOL

The Commission has reviewed your application, dated January 15, 2001, wherein you request an amendment to the waterflood pressure maintenance scheme approval for the subject oil pool.

Attached is Approval # 98-09-006 (Amendment #3) for the application, granted under section 100 of the <u>Petroleum and Natural Gas Act.</u>

The re-completion of the well at 02-14-88-18 W6M (WA# 10700) to a water injector should improve pool oil recovery. The project area remains unchanged from the previous approval.

Please note that a Progress Report, as required under condition #8 of the approval, is now due.

Sincerely,

Craig Gibson, P.Eng.

Manager

Reservoir Engineering and Geology

Attachment

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

_Cop	y 9
	Wellfile (originals)
	59240
	Daily
	Resource Revenue
	S. Chicorelli
	R. Stefik
	G. Farr
	P. Attariwala
	D. Krezanoski

APPROVAL 98-09-006 (Amendment #3)

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

IN THE MATTER of a pressure maintenance scheme of Encal Energy Ltd. (Encal) for waterflood recovery of oil by water injection into the Rigel Cecil "H" Pool.

The approval granted by the Commission, pursuant to Section 100 of the <u>Petroleum and Natural Gas Act</u>, R.S.B.C. 1996, c.361 is hereby amended as follows:

The pressure maintenance scheme of Encal for waterflood recovery of oil from the Rigel Cecil "H" pool as such scheme is described in the application from Encal dated September 8, 1998 and modified March 18, 1999, April 20, 2000 and January 15, 2001 is hereby approved, subject to the terms herein contained:

- 1. The project area of the pressure maintenance scheme consists of sec 11, NW/4 sec 12, W/2 sec 13, sec 14, sec 23, sec 24, sec 25 and sec 26 Twp 88 Rge 18 W6M.
- 2. The project oil allowable for a month shall be based on the previous month's voidage replacement.
- 3. Water may be injected into the Rigel Cecil "H" Pool through the wells 3-11 (bottomhole 1-11), 4-11, 2-14, B16-14 (bottomhole 5-24) and 10-23-88-18 W6M.
- 4. The injection pressure measured at the sandface must not exceed the formation fracture pressure.
- 5. Equipment must be installed at the well head of water injection wells to ensure that fracturing of the formation does not occur.
- 6. All associated gas production will be conserved.
- 7. An oil well may be drilled 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.

Craig Gibson

Manager

Reservoir Engineering and Geology

DATED AT the City of Victoria, in the Province of British Columbia, this 18 day of January, 2001.