



April 2, 2007

8220-2600/2700/2720/4100-59070-20

David Sanderson  
Exploitation Engineer  
Canadian Natural Resources Limited  
2500, 855 – 2<sup>nd</sup> Street SW  
Calgary AB T2P 4J8

Dear Mr. Sanderson:

**RE: COMMINGLED PRODUCTION APPROVAL  
CNRL UMBACH a-57-F/94-H-3; WA# 22429**

Commission staff have reviewed the supplemental application dated March 29, 2007, which follows an interim approval dated February 9, 2007 to commingle gas production from the Bluesky, Gething and Baldonnel formations in the subject well. As previously outlined, the Commission designates the zones noted as 'Upper' and 'Middle' (interval 1089.0 – 1101.5 mKB) as a single Gething pool.

The Baldonnel zone flow tested rapidly declining gas rates and pressure indicative of limited reserves potential, with a final gas rate of  $10 \times 10^3 \text{ m}^3/\text{d}$ . The combined Bluesky/Gething/Basal Gething interval tested a gas rate of  $15 \times 10^3 \text{ m}^3/\text{d}$ , however based on the results of stimulation operations it would appear that the Bluesky and Basal Gething intervals are making negligible contributions. The current completion segregates the Baldonnel formation from the other intervals, however we understand that the intention is to commingle all zones when access is established next winter.

Your application to commingle production from these zones is hereby granted approval, under the authority of Section 41 of the *Drilling and Production Regulation*, subject to the following conditions:

1. Production from the Bluesky (1060.0-1063.0 mKB), Gething (1089.0 – 1101.5 mKB), Basal Gething (1134.0-1138.0 mKB) and Baldonnel (1152.0 – 1156.0 mKB) zones may be commingled.
2. Gas, condensate and water production should be allocated on the Ministry of Small Business and Revenue BC S-1 and BC S-2 forms on the basis of Bluesky 0%, Gething 100% and Basal Gething 0%.
3. Prior to commingling of the Baldonnel formation, proposed production allocation values must be submitted for approval, based on production performance and remaining reserves.
4. This approval may be modified at a later date if deemed appropriate through a change in circumstances.

Should you have any questions, please contact the undersigned at (250) 952-0310.

Sincerely,

Ron Stefik, ASCT  
Sr Reservoir Engineering Technologist

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**RESOURCE CONSERVATION BRANCH**

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