



Copies for Approval Letters to Industry (9)

RE: **Commingled Production**

<input type="checkbox"/>	G. Miltenberger	<input type="checkbox"/>	Resource Revenue
<input type="checkbox"/>	Data Mgmt	<input type="checkbox"/>	P.S. Attariwala
<input checked="" type="checkbox"/>	R. Stefik	<input type="checkbox"/>	G. Farr
<input type="checkbox"/>	Wellfile (originals)	<input type="checkbox"/>	Daily
<input type="checkbox"/>	59070-20		

July 24, 1998

File: 8900-4610-59070-20
980604

Mr. D. Lehmann, P. Eng.
Senior Petroleum Engineer
Paramount Resources Ltd.
4000 350 7th Ave SW
Calgary AB T2P 3W5

Dear Mr. Lehmann:

**RE: COMMINGLED PRODUCTION APPROVAL AMENDMENT
PARA ET AL ZAREMBA a-45-E/94-H-7; WA# 9827
Bluesky "C", Second Brown Marker "B" and A Marker/Base of Lime "C" Pools**

The Ministry has reviewed your application dated July 13, 1998, requesting permission to commingle gas production from the Zarembo field Bluesky, A Marker and Upper Charlie Lake gas pools encountered in the subject well.

On February 13, 1998, the Ministry granted approval to commingle Bluesky "C" and A Marker/Base of Lime "C" in the subject well. Your current application requests approval to commingle gas from the Upper Charlie Lake also. Please note that the Upper Charlie Lake to which you refer is termed the "Second Brown Marker "B" pool" by the Ministry. Reservoir pressure and fluid composition are similar for these three pools. Commingling would increase the producing life of the well, thereby increasing the recoverable reserves. We wish to advise that your application to commingle production from these three formations is hereby approved, under the authority of Section 44 of the *Drilling and Production Regulation*, subject to the following conditions:

1. Production from the Bluesky (1135-1141 mKB), Second Brown Marker (1185.5-1187.5 mKB) and A Marker/Base of Lime (1206-1208 mKB) pools may be commingled.
2. Gas, condensate and water production should be allocated on the BC S-1 and BC S-2 forms on the basis of Bluesky 50%, Second Brown Marker 30% and A Marker/Base of Lime 20%.
3. This approval may be modified at a later date if deemed appropriate through a change in circumstances.

Sincerely,

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

PSA/mef

Ministry of
Energy and Mines

Energy and Minerals Division
Engineering and Operations Branch

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