



May 7, 1996

Copies for Daily Gas Allowables (5)

<input type="checkbox"/>	D.J. Johnson
<input type="checkbox"/>	R. Stefik
<input checked="" type="checkbox"/>	Wellfile (originals)
<input type="checkbox"/>	59070-03
<input type="checkbox"/>	Daily

8400-4800-59240-09
960471

Ms. Joan Jackson
Exploitation Technician
Canadian Natural Resources Limited
2000-425 1 St SW
Calgary AB T2P 3L8

Dear Ms. Jackson:

**RE: APPLICATION FOR UNCONTROLLED BLOWDOWN
WILDMINT HALFWAY 'A' POOL**

This acknowledges receipt of your application dated March 5, 1996, requesting approval for uncontrolled blowdown of the gas cap in the Wildmint Halfway "A" pool.

We concur that the oil leg within the Wildmint Unit No. 1 is now effectively depleted. Therefore, full blowdown of the gas cap is considered timely in this pool, which has been operating under controlled blowdown since April 1993. Accordingly, we wish to advise that the Good Engineering Practice (GEP) area Approval 94-06-007 is hereby **rescinded**. The effective date for full blowdown is April 1, 1996.

Since two gas wells, b-76-A and b-86-A/94-H-2 (WA# 1758 & 1788, respectively) are located in a single gas well spacing area, a shared daily gas allowable of $88.9 \times 10^3 \text{ m}^3$ is hereby approved for the sum of production from the two wells, in accordance with section 91 of the *Drilling and Production Regulation*. The well d-64-A/94-H-2 (WA# 8664) qualifies for unrestricted gas production.

Yours sincerely,

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

PSA/RGS/mef



APPLICATION FOR DAILY GAS ALLOWABLE (DGA)

Individual Well

Form to be submitted under the authority of the Petroleum and Natural Gas Act R.S.B.C. 1979, c. 323, Drilling and Production Regulation, s.91, to the Energy Resources Division, Ministry of Energy, Mines and Petroleum Resources, at the address noted above. Information collected on this form will be used for public record in accordance with s.60 of the Drilling and Production Regulation.

☐ Initial Application

☒ Revision No. 1

Well Name CNRL et al Wildmint b-76-A/94-H-2 CNRL et al WILDMINT b-86-A/94-H-2			Well Authorization No. 1758* 1788*	
Field WILDMINT			Pool Halfway 'A'	
Factors	Units	Owner's Calculations		Division Calculations
		Values Obtained from	Values Used in This Calculation	
Depth to top gas pay		mKb		
Depth to bottom gas pay		mKb		
Assigned area	A	hectares		281.5
Average net pay thickness	h	metres		7.6
Average net porosity	ϕ	fraction		0.246
Average water saturation (Nominal 0.25)	S_w	fraction		0.175
Initial pool pressure at MPP	P_i	kPaa		8439.
Formation temperature	T	K		329.
Initial supercompressibility factor	Z_i			0.878
Recovery factor	R	fraction		0.90
Unadjusted Daily Gas Allowable ($10^3 m^3$) = $\left(\frac{Ah\phi(1-S_w)P_i R}{35.16398TZ_i} \right) \left(\frac{1}{3.650} \right)$				88.9*
Name		Position		
Signature		Company		
Date	Phone No.		FAX No.	

APPROVAL (for ministry use only)

Off-target penalty factor	1.00	Daily gas allowable	88.9*	$10^3 m^3$
(minimum UDGA is $60.0 \times 10^3 m^3$ in accordance with Section 1 of the Drilling and Production Regulation)				
Date Effective	May 1, 1996			
Field	Wildmint	Pool	Halfway 'A'	
Approval Date	May 7, 1996			