

May 7, 1996

Copie	es for Daily Gas Allowables (5)
	D.J. Johnson
	R. Stefik
V	Wellfile (originals)
	59070-03
	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 Accordingly, we wish to advise that the Good Engineering Practice (GEP) area Approval 94-06-007 is hereby **rescinded**.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 10³m³ 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.

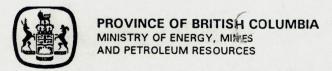
Yours sincerely,

B'. van Oort, P.Eng.

Director

Engineering and Operations Branch

PSA/RGS/mef



Energy Resources Divisi 6th Fir, 1810 Blanshard screet Victoria, British Columbia **V8V 1X4**

FAX:

Phone: (604) 952-0302 (604) 952-0291

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,

will be used for public record in	n accordance	With S. 60 of th	ne Drilling a	and Production Reg	ulation.			
] Initial Ap	plication		☐ Revision	n No. <u>1</u>			
Well Name CNRL et CNRL et	76-A/9 86-A/9	4-H-2 4-H-2 Well Authorization			1758* ation No. 1788*			
Field WILDMINT	1				Pool	Halfway '	A'	
				Owner's Calculations				
Factors		Units	Value	es Obtained from	Valu	les Used in This Calculation	Division Calculations	
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	ø	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	Т	к					329.	
Initial supercompressibility factor	Z _i						0.878	
Recovery factor	R	fraction					0.90	
Unadjusted Daily Gas Allowable (10 ³ m ³) = $\left(\frac{Ah\phi(1-Sw)P_i R}{35.16398TZ_i}\right)\left(\frac{Ah\phi(1-Sw)P_i R}{35.16398TZ_i}\right)$				50)			88.9*	
Name				Position				
Signature				Company				
Date	Phone No.		FAX No.					
		APF	PROVAL	(for ministry use o	nly)			
Off-target penalty factor	1.00 Daily gas allowable 88.9* 103m³ (minimum UDGA is 60.0 103m³ in accordance with Section 1 of the Drilling and Production Regulation)							
Date Effective	May 1	, 199	6					
Field	Wildmint Pool Halfway 'A'							
Approval Date	May 7, 1996							