Parliament Buildings Victoria British Columbia V8V 1X4 approved

Ref. No. 8439

1984 01 13

bcc: P. K. Huus W. L. Ingram

Canterra Energy Ltd. P.O. Box 1051 Calgary, Alberta T2P 2K7

Attention: Mr. John Wansleeben, P. Eng.

Dear Sir:

(CDCOG) GFP Biograf (

Re: Application for Good Engineering Practice Area

Tenn Osprey d-13-J/94-A-15, Osprey - Halfway

CDCOG

This will asknowledge receipt of your application dated 1983 12 19, requesting approval of a Good Engineering Practice area and allowable for the well Tenn Osprey d-13-J/94-A-15.

This is to advise that your application is approved as the well d-l3-J is located in a pool which is being produced under a concurrent production scheme. The conditions of this approval are as follows:

- 1. The GEP area consists of units 12, 13, 22 and 23-J/94-A-15.
- 2. The gas allowable for the area, based on volumetric gas reserves in the area of approval, is  $17.5 \cdot 10^3 \text{m}^3/\text{d}$ .
- 3. This approval could be modified at a later date if deemed appropriate through a change in circumstances.

Yours truly,

PETROLEUM RESOURCES DIVISION

A. G. T. Weaver Director, Engineering and Operations

alg: losave

PSA:him

cc: D. L. Johnson

(604) 38-5993



Well name.

<i>!</i> _11	Authorization No.	2613
/-11	Authorization No.	26

d-13-J/94-A-15

U.W.I.\_\_

## MINISTRY OF MINES AND PETROLEUM RESOURCES PETROLEUM RESOURCES BRANCH

Troks.

## **APPLICATION FOR DAILY GAS ALLOWABLE**

INDIVIDUAL WELL

Form to be submitted in duplicate to the Petroleum Resources Branch, Ministry of Mines and Petroleum Resources, Victoria, B.C.

Tenn Osprey 2613

Field				
Depth to top of gas column.	142 1141.	Pool	log interp	retatio
Depth to bottom of gas column 1	146 <sup>1145</sup>		lan intone	retatio
	· · ·	1	'alculations	
Factors	Nominal Values	Values Obtained	Values Used in This Calculation	- Branch Calculation
Average net pay thickness	_(р)	Table 1	4.0	2.5
Average pet porosity	(6) Fraction	Table 1	0.21	.1
	(C) 0,25	Table 1	0.27	.1
Initial pool pressure at MPP P <sub>1</sub>		ref. 1 p.509	9542	959
Initial supercompressibility factor	<b>!</b>	ref. 1 p.509	0.865	. 0.8
Assumed abandonment pressure P <sub>u</sub>	i	estimate	300	113
Abandonment supercompressibility factor	İ	calculated	0.995	0.9
Mesigned area (Mapper d)		ref. 1 p.509	259	1.83
Formation temperature	1	ref. 1 p.509	329	327
decoverable raw gas $(10^6 \text{m}^3) = 28.43819 \times 10^{10} \text{m}^3 = 28.43819 \times 10^{10} \text{m}^3 = 7.7912$		$\frac{(z_1 - z_4)_{T_1}^2 - (z_4)_{T_1}^2}{(z_4 - z_4)_{T_1}^2}$	.30 x 10 <sup>6</sup> m <sup>3</sup>	'd <sub>17.</sub>
Dated at $Ca(\beta am)$ All Signed by	s × 10-3 Ab 0 (1)  Letter  Letter	$\frac{P_1}{Z_1} - \frac{P_2}{Z_1} \frac{1}{T} = \frac{40}{T}$ this Company.	Decemberate	× 19
ed daily gas allowable $(10^3 \text{m}^3/\text{d}) = 7.7912$ Dated at Calgary All	serta Leeban Leservi	$\frac{(P_1 - P_2)^{\frac{1}{2}} - \frac{40}{7}}{\text{this}}$	Decemberate	′d <sub>17.</sub> 9
Dated at $Ca(\beta am)$ All Signed by	serta Lelben Leservi	this $\frac{P_1}{Z_1} - \frac{P_2}{Z_2} \cdot \frac{1}{T}$ day of Company Company	Decemberate	′d <sub>17.</sub> 9
Dated at Calgam All Signed by Position Manager (6)  Off-target penalty factor 1.	serta Lelben Leservi	this $\int_{-\infty}^{\infty} \frac{P_a}{Z_a} \frac{1}{T} \frac{40}{T}$ Company  Company  Branch use only)	Decemberatery	′d <sub>17.</sub> 9
Dated at Calgam All Signed by Position Manager (6)  Off-target penalty factor 1.	lelben eservi	this Day of Company.  Comp	December December of Enderra	′d <sub>17.</sub> 9
Dated at Calgam, All Signed by Position Manager	lelben eservi	this Long day of Company.	December December of Enderra	′d <sub>17.</sub> 9
Dated at Calgam, All Signed by Position Manager  Off-target penalty factor 17.5	8 × 10-3 Ah 6 (1)  Letter Letter Lesery  (For	this Long day of Company.	December December of Enderra	′d <sub>17.</sub> 9
Dated at Calgam All Signed by Danager  Off-target penalty factor  Daily gus allowable 17.5  Date effective	lelben Leservi	this banday of Company  Compan	Decemberation  To penalty factor.  Ty 'A'	′d <sub>17.</sub> 9