



June 5, 2003

2020-4800/4900-59070-20  
OGC - 03128

Brent McGillivray, P.Eng.  
Sr. Exploitation Engineer  
Pointwest Energy Inc.  
700, 635 - 8<sup>th</sup> Avenue S.W.  
CALGARY AB T2P 3M3

Dear Mr. McGillivray:

**RE: APPLICATION FOR COMMINGLED PRODUCTION  
APPROVED DAILY OIL ALLOWABLE  
POINTWEST BOUNDARY N 3-17-88-14 W6M; WA# 15113**

The Commission has reviewed your application dated April 17, 2003 requesting permission to commingle production from the Halfway and Doig zones encountered in the subject well.

The Commission has designated these pools as the Boundary Lake North - Halfway "P" gas pool and Doig "E" oil pool. Both the Halfway "P" and Doig "E" pools are interpreted to be single well pools. Well test data indicates that these zones are in communication behind the casing, likely due to fracture stimulation.

We wish to advise you that your application to commingle production is hereby approved, under the authority of Section 41 of the *Drilling and Production Regulation*, subject to the following conditions:

1. Production from the Halfway (1308.0-1311.0 mKB) and Doig (1320.1-1321.1 mKB) zones may be commingled.
2. Oil, gas and water production should be allocated on the Ministry of Provincial Revenue BC S-1 and BC S-2 forms on the basis of:  
Doig (UWI 100031708814W602) - all oil and water, and solution gas up to a GOR of 177 m<sup>3</sup>/m<sup>3</sup>  
Halfway (UWI 100031708814W600) - all remaining gas.
3. This approval may be modified at a later date if deemed appropriate through a change in circumstances.

As noted above, a UWI has been created for reporting production allocated to the Doig zone. Amended S-1 statements should be filed to reflect these allocation factors, back to the month of initial production. Also, attached please find an approved daily oil allowable of 10.0 m<sup>3</sup> for the Doig zone.

Sincerely,

Peter Attariwala, P.Eng.  
Supervisor  
Reservoir Engineering

**Daily Oil Allowables**  
(including overproduction)  
Copy 4

- Wellfile (originals)
- 59070-04
- Daily
- R. Stefik

**Approval Letters to Industry**  
**COMMINGLED PRODUCTION**  
Copy 8

- Wellfile (originals)
- 59070-20
- Daily
- Resource Revenue
- R. Stefik
- G. Farr
- P.S. Attariwala
- D. Krezanoski

Attachment

**ENGINEERING AND GEOLOGY BRANCH**

PO Box 9329 Stn Prov Gov't, Victoria BC V8W 9N3 Tel: (250) 952-0302 Fax: (250) 952-0291  
Location: 6<sup>th</sup> Flr 1810 Blanshard St. Victoria BC

Headquarters: #200, 10003 110<sup>th</sup> Ave, Fort St. John BC V1J 6M7 Tel: (250) 261-5729 Fax: (250) 261-5744  
www.ogc.gov.bc.ca



# APPLICATION FOR DAILY OIL ALLOWABLE (DOA)

## Individual Well

Form must be submitted under the authority of the Petroleum and Natural Gas Act R.S.B.C. 1996, c. 361, Drilling and Production Regulation, s.73(1), to the Oil and Gas Commission, at the address noted above. Information collected on this form will be used for public record in accordance with s.57 of the Drilling and Production Regulation.

Initial Application

Revision No. \_\_\_\_\_

Well Name <b>Pointwest Boundary N 03-17-88-14</b>	Well Authorization No. <b>15113</b>
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Field <b>Boundary Lake North 2020</b>	Pool <b>Doig</b>
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Factors	Nominal Values	Operator's Calculations		COMMISSION USE ONLY Branch Calculations
		Values Obtained from	Values Used in This Calculation	
Depth to top oil pay	mKb	Logs	1314	Logs 1320.1
Depth to bottom oil pay	mKb	Logs	1324	Logs 1321.1
Average net pay thickness	h metres	Logs analysis and chip samples	1.5 m	Logs 1.1
Average net porosity	φ 10%	Logs analysis and chip samples	8.0 %	Logs 6.6
Average water saturation	C 25%	Detail Log analysis by Schlumberger	10 %	Log analysis 53.2
Average shrinkage	S 0.75	Murphy Halfway I Pool	0.75	0.776
Recovery factor	R 20%		20%	20
Expected uniform rate life	L 10 years		10	10
Assigned area	A hectares		66	66.0
Unadjusted Daily Oil Allowable = $(h) \left(\frac{\phi}{10}\right) \left(\frac{100-C}{75}\right) \left(\frac{S}{0.75}\right) \left(\frac{R}{2L}\right) \left(\frac{A}{31.05}\right) = \text{m}^3/\text{d}$			3.8 m <sup>3</sup> /d (min 10 m <sup>3</sup> /d)	1.0

Name <b>Brent J. McGillivray</b>	Position <b>Sr. Exploitation Engineer</b>
Signature	Company <b>Pointwest Energy Inc.</b>
Date <b>02.09.10</b>	Phone No. <b>403.218.6405</b>
	FAX No. <b>403.232.6120</b>

**APPROVAL** (for commission use only)

Off-target penalty factor <b>1.00</b>	Daily oil allowable <b>10.0</b> m <sup>3</sup> /d, before gas-oil ratio penalty.
<i>(minimum UDOA is in accordance with Schedule 3 of the Drilling and Production Regulation)</i>	

Date Effective **January 1, 2003**

Field **Boundary Lake North** Pool **Doig "E"**

Approval Date **June 5, 2003**