



Via Mail and Email

March 21, 2005

Petro-Canada
Legal Services
28th Floor, West Tower
150 – 6th Avenue S.W.
Calgary, Alberta, Canada T2P 3E3

Attention: Rachel Kolber

Dear Madam:

**RE: GENERAL BULLETIN 2003-28 (GB 2003-28)
BITUMEN CONSERVATION REQUIREMENTS
ATHABASCA WABISKAW – MCMURRAY
PHASE 3 FINAL PROCEEDING NO. 1347905
INFORMATION REQUEST SUBMISSION**

In accordance with EUB directives, Paramount Energy Operating Corp. submits the attached Information Request. A paper copy of the Information Request has been sent to **Rachel Kolber** and fifteen (15) paper copies have been forwarded to the Board. In addition, electronic copies of the Information Request have been sent to all participants.

Please signify receipt of Paramount's Information Requests by either return email or fax at 403-269-6330.

If any questions arise, contact the undersigned at 269-4419.

Yours truly,

PARAMOUNT ENERGY OPERATING CORP.

Brett Norris, P.Geol.
Vice President, New Ventures & Geoscience

Attachments

c.c. Mr. Ernie Smith, Resources Applications, Alberta Energy and Utilities Board

**PHASE 3 FINAL HEARING, ATHABASCA OIL SANDS AREA.
PROCEEDING NO. 1347905**

**INFORMATION REQUEST SUBMISSION
TO
PETRO-CANADA

BY
PARAMOUNT ENERGY OPERATING CORP.**

MARCH 21, 2005

In accordance with EUB directives, Paramount Energy Operating Corp. submits the following Information Requests to Petro-Canada:

1. Section 5.2.1 of the Petro-Canada Submission
 - Question 1** Are there any surface pressure measurements available for 11-33 after 2002 to supplement the subsurface gradient measurements?
 - Question 2** Provide gas pool pressure corresponding to the 10-26 piezometer readings.
 - Question 3** What is the estimated lateral extent of the 21-metre shale plug referenced on Page 39?
 - Question 4** Is the abrupt pressure drop of the piezometer installed at 319 m of well 09-24 in April-May 01 an artifact of the device or operations?

2. "To summarize the literature, the tighter the mudstone, the more likely it is to fail under thermal stresses, and if there is permeability from bioturbation, the shales will typically leak in any event.", page 26 Section 4.2.3, Petro-Canada Submission.
 - Question 1** Does the Geomechanical literature address bioturbation aspects.
 - Question 2** Are there any physical laboratory measurements quantifying bioturbation induced permeability in the Chard area?

3. Section 4.2.1 Seal Capacity
 - Question 1** Have Capillary Entry Pressure measurements been performed with samples from Chard wells?