

January 21, 2010

3240-2600-32640-02

Brian L. Smart, P.Eng. VP - Reservoir Engineering Polar Star Canadian Oil and Gas Inc. 1900. 700 - 4th Avenue S.W. Calgary AB T2P 3J4

Dear Mr. Smart:

RE:

SALT WATER DISPOSAL APPROVAL POLAR STAR CONROY a-53-E/094-H-12 (WA# 12127): BŁUESKY "B" POOŁ

Commission staff have reviewed your application dated October 19, 2009 requesting permission to dispose of area produced formation water into the Bluesky formation of the subject well.

The well a-53-E is mapped as intersecting the single well Conroy Creek field Bluesky "B" pool. Drilled in March 1999, gas production started in December 1999 at a rate of 16 e³m³/d. Cumulative production to the end of November 2009 has been 10.9 e⁶m³ (0.4 Bcf). Reservoir pressure data supports the interpretation of a limited size pool. Current gas production rate has declined to ~1 e³m³/d, with an increasing W/G ratio, at the economic limit for gas recovery.

A successful injectivity test was performed in September 2009. At the proposed disposal injection rate no backpressure was observed at surface. We concur that the subject well appears to be a good candidate for salt water disposal in the Bluesky formation, and addressed a need for an economic disposal option to facilitate continued gas production in the area. Notice of the application was posted on the OGC website, with no objections received.

Attached is Approval 10-02-002 for the application, granted under Part 8, Division 3, Section 94 of the Drilling and Production Regulation.

The reservoir volume available within this pool has been well defined. Re-pressuring the pool to above initial pressure, but below the formation fracture pressure, would allow significant additional disposal operating life. Conditions #3, 4 and 5 of the approval address this option.

Should you have any questions, please contact Ron Stefik at (250) 419-4430.

Sincerely.

Richard Slocomb, P.Eng.

Supervisor, Reservoir Engineering

Resource Conservation

Attachment

Victoria BC V8W 9N3

APPROVAL 10-02-002

THE PROVINCE OF BRITISH COLUMBIA PETROLEUM AND NATURAL GAS ACT DRILLING AND PRODUCTION REGULATION OIL AND GAS COMMISSION

IN THE MATTER of a scheme of Polar Star Canadian Oil and Gas Inc. (Polar Star) for produced Salt Water Disposal in the Conroy Creek field – Bluesky "B" pool in the well Polar Star Conroy a-53-E/094-H-12 (WA# 12127).

NOW, THEREFORE, pursuant to Part 8, Division 3, Section 94 of the *Drilling and Production Regulation*, the scheme is hereby approved, as such scheme is described in

an application from Polar Star the Commission dated October 19, 2009 and related submissions.

- 1. The disposal interval must be in the Bluesky formation.
- 2. The Commission must be notified in writing of the date of commencement of disposal.
- 3. The disposal/injection pressure at the sandface must not exceed the formation fracture pressure.
- 4. The maximum pool pressure to not exceed a value of 10.0 Mpa.
- 5. The pool pressure must be measured at sufficient intervals to verify compliance with condition #3.
- 6. A record of volume of salt water and recovered fluid disposed of through this well must be included on a Monthly Injection/Disposal Statement, in the prescribed form (BC-S18), which must be submitted to the Oil and Gas Commission not later than the 25th day of the month following the reported month.
- 7. This approval may be modified or rescinded if deemed appropriate through a change in circumstances.

for Richard Slocomb

Supervisor, Reservoir Engineering

Resource Conservation
Oil and Gas Commission

DATED AT the City of Victoria, in the Province of British Columbia, this

day of January 2010.