

## FOREWORD

Geoscience Reports is an annual publication that summarizes petroleum-related projects undertaken by staff within the Petroleum Geoscience Section. This public geoscience information provides baseline, regional data that can be used by those undertaking exploration and development within the petroleum sector of the province. These reports not only promote the petroleum resources of the province, but also support responsible development and the formulation of related policy.

The 2014 issue of Geoscience Reports includes a paper describing the use of the Passey log based methodology for deriving organic richness estimations of the Evie, Muskwa and Otter Park units within the Cordova Embayment. This paper was authored by Akindele Balogun, the newest member of the Petroleum Geoscience Section. The information in this paper will form the basis of an upcoming resource assessment of the Cordova Embayment.

Ed Janicki describes the petroleum hydrogeology of the Halfway Formation as part of a regional study examining individual oil pools within the formation. This information should provide explorationists a new approach to understanding one of British Columbia's most prolific oil-producing formations. This paper helps explain oil migration and entrapment in the Halfway, which could lead to new discoveries and might also be useful in examining depleted oil pools as possible water disposal zones.

Ed Janicki also produced an updated description of the North Pine oil pool within the Halfway Formation. This compilation provides some new insights into the pool and opportunities for future development.

Filippo Ferri and Matthew Griffiths describe a region in northeast British Columbia with potential for condensate production from the Muskwa Formation. This paper used available thermal maturity and production data to delineate a zone where shales of the Muskwa Formation are likely in the condensate window. This compilation was part of a work term project through the University of Victoria's Co-operative Education Program.

Elizabeth Johnson presents a pilot air-photo study of historical aerial data examining the change in permafrost coverage within small areas of the Horn River Basin. Although this paper was not available for the print version of Geoscience Reports 2014, readers are encouraged to visit the Petroleum Geoscience Section's website ([http://www.empr.gov.bc.ca/OG/oilandgas/petroleumgeology/Geoscience\\_Pub](http://www.empr.gov.bc.ca/OG/oilandgas/petroleumgeology/Geoscience_Pub)) for the digital version of this and other papers. This website also has links to the Petroleum Geoscience Publication Index.

### **Filippo Ferri**

Director, Petroleum Geoscience  
Tenure and Geoscience Branch  
Upstream Development Division  
BC Ministry of Natural Gas Development