

northeast-trending anticlinal structure, discovered in September 2000. McCully gas came on-stream in April 2003. In June 2007, first gas was delivered to the northeast American market via the Maritimes and Northeastern Pipeline. Production is from the upper part of the Albert Formation (Horton Group) Hiram Brook Member sandstones at approximately 2.5 km depth. The field is structurally and stratigraphically complex and compartmentalized by faults. Production is from 30 wells over 7 reservoir packages.

In order to understand this geological complexity, a 3D model has been constructed of the McCully field using multiple 3D seismic volumes, in combination with an extensive wellbore database. The objective of model construction is to understand the structure, fault compartmentalization, correlations, reservoir characteristics and gas-in-place volumes in greater detail. By developing a more consistent and integrated analysis in 3D space, the model can be utilized to plan complex wellbores with greater accuracy and to optimize gas extraction into the future.

**Constructing a 3D geological model of the
McCully Gas Field, southern New Brunswick**

PAULA MARNER

*Corridor Resources Inc. #301-5475 Spring Garden Road,
Halifax, Nova Scotia B3J 3T2, Canada <pmarner@corridor.ca>*

The McCully Gas Field in southern New Brunswick is a