



Quebec's Leader in Petroleum Exploration

## BOURQUE REEF PROJECT Gaspé Property, Eastern Gaspé, Québec

### UPPER SILURIAN TO LOWER DEVONIAN REEFS

#### AVAILABLE DATA

##### 2010 data

- 65km<sup>2</sup> 3D seismic

##### Pre-2010 data

- 280 km reprocessed vintage 2D seismic

#### FARMOUT TERMS

Drilling commitment to earn a working interest on selected acreages.

**Location:** the project covers 500 km<sup>2</sup> in the Eastern part of the Gaspé Peninsula, at the head of the Bay of Gaspé. The reefs fairway is located on the northern margin of the Upper Silurian to Lower Devonian Gaspé Belt, which is part of the North Appalachians Fold Belt. The Bourque Property is located northwest of the Haldimand light oil discovery in the same geological setting.

**Prize:** giant to medium size oil fields.

**Source rock:** the best regional source rock for the Gaspé Belt reservoirs is an Upper Ordovician black shale (Utica equivalent) with TOC up to 4%. Thermal maturation studies indicate that the siluro-devonian rocks are within the « oil window ». Numerous oil seeps, oil shows and the recent Petrolia Haldimand oil discovery indicate that the petroleum system is working. The presence of oil is also demonstrated by large surface clusters of geochemistry anomalies related to hydrocarbon microseeps above some of the reefs anomalies.

**Reservoirs:** porous carbonate in a major barrier and pinnacle reefs of the West Point Formation are the main reservoir targets.

**Trap:** during the Upper Silurian and Lower Devonian burial period, pinnacle reefs and barrier reefs grew up, at the edge of a hinge line, at the northern margin of the Gaspé Belt Basin. The end of reefs growth coincided with the reversal of basin polarity from South to North and the initiation of tilted faulted blocks. Reefs are distributed along the crest of a 60 km long giant rotated faulted block. They are capped by a thick sequence of fine grained sediments. The trap is a combination stratigraphic-structural for the barrier reef prospects and stratigraphic for the pinnacle reef prospects.

**Work program:** the primary objective is to test and to prove the oil potential of the Upper Silurian to Lower Devonian West Point reefs.

**Infrastructure/market:** the Bourque Project is at 60km of Gaspé town with its deep harbor, railroad and road facilities to transport oil to refineries in Quebec or the East Coast.

#### LICENCE TERMS & WORK OBLIGATIONS

Initial 5-year period  
Renewable annually, 5 times  
Acreage can be reduced if necessary  
Annual rental fees (\$0.04 / acre)  
Minimum work obligations

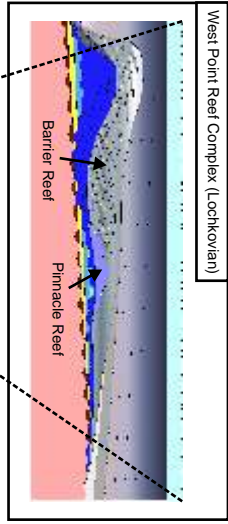
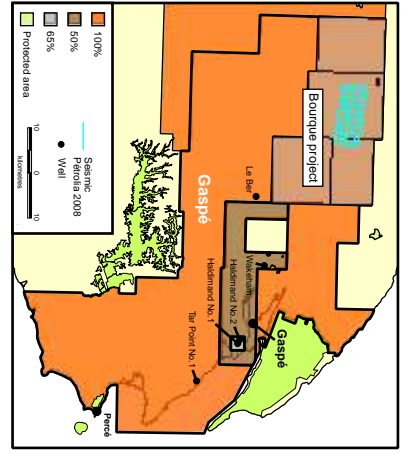
#### ROYALTIES

Production lease: 20-year period  
Annual rent is \$ 1.00 / acre  
Oil royalty varies from 5 to 12.5%  
Gas royalty varies from 10 to 12.5%

#### CONTACT INFORMATION

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Structural closure: 10.3 km<sup>2</sup>  
Vertical closure: 400 m

