



## **Call for Nominations NL13-01EN (Areas of Interest)**

### Eastern Newfoundland Region Overview

The Eastern Newfoundland Region is situated east of the island of Newfoundland, encompassing the Orphan and Flemish Pass basins. The water depths within the Eastern Newfoundland Region range from shallow to ultra-deep. To date, prospects in these Mesozoic rift basins have focused on structural traps with primary reservoir targets of Early Cretaceous and Late Jurassic sandstones, sourced by Kimmeridgian and/or Tithonian shales.

From the mid 1960s through the mid 1980s, 2D seismic acquisition in the Eastern Newfoundland Region was consistent, following a period of inactivity. 2D acquisition resumed in 1998 and has steadily continued to present time. The first 3D seismic survey was recorded in the Eastern Newfoundland Region in 1999 and since this time a number of other 3D programs have been recorded. In addition, beginning in 2006, multiple Controlled Source Electromagnetic surveys were recorded over the Orphan Basin.

To date, 24 wells have been drilled in the Eastern Newfoundland Region. Of these wells, 23 were classified as exploration and one as delineation. North Dana I-43 was drilled and tested in 1982 and subsequently Significant Discovery Licence 200 was granted. Resources of 472 BCF of gas and 11 MMbbls of natural gas liquids are identified by the C-NLOPB for this discovery. In 2010, Mizzen O-16 was drilled and tested resulting in SDLs 1047 and 1048 being awarded in the Flemish Pass Basin. The Mizzen Discovery Area contains resources of 102MMbbls of oil identified by the C-NLOPB. In 2011, Mizzen F-09 was drilled to delineate the Mizzen discovery.

In 2013, exploration drilling occurred in both the Orphan and Flemish Pass basins. Chevron drilled Margaree A-49 in 2475m of water in the Orphan Basin on EL 1074R. On EL 1112, in the Flemish Pass Basin, Statoil drilled Harpoon O-85, Bay du Nord C-78 and Bay du Nord C-78Z in approximately 1100m of water.

The Eastern Newfoundland Region is classified as High Activity. The region has a proven working petroleum system in the Flemish Pass Basin which is considered analogous to that of the Jeanne d'Arc Basin. Modern 2D and 3D seismic coverage exists and the region has been the subject of recent exploration drilling. Designated a High Activity region, a 2-Year Cycle model for the Call for Nominations and Call for Bids process will occur for the Eastern Newfoundland Region.