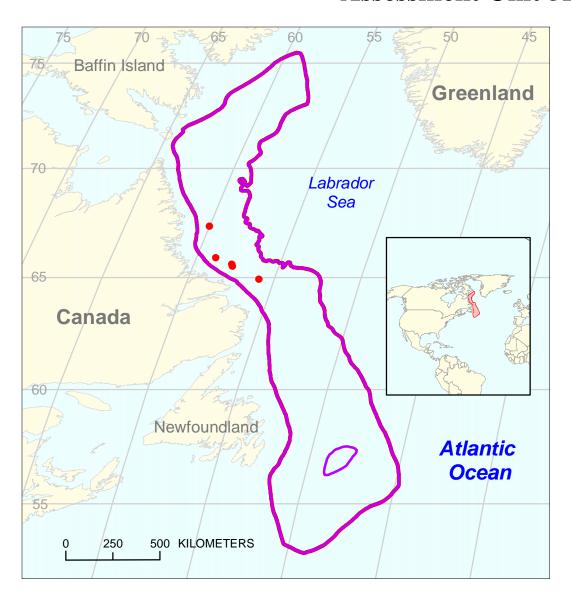
## Graben Systems Exclusive of Jeanne d'Arc Assessment Unit 52150201



Graben Systems Exclusive of Jeanne d'Arc Assessment Unit 52150201

Labrador-Newfoundland Shelf Geologic Province 5215

**USGS PROVINCE:** Labrador-Newfoundland Shelf (5215) **GEOLOGIST:** L.B. Magoon III

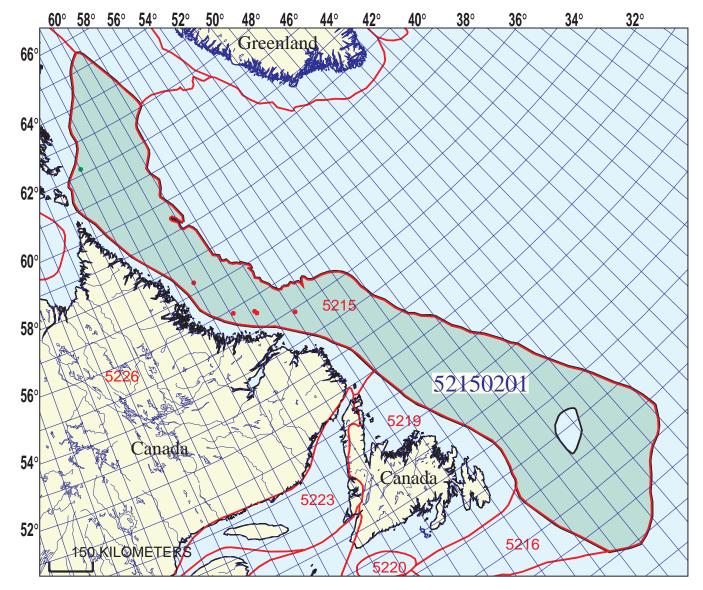
**TOTAL PETROLEUM SYSTEM:** Mesozoic Composite (521502)

**ASSESSMENT UNIT:** Graben Systems Exclusive of Jeanne d'Arc (52150201)

**DESCRIPTION:** This Mesozoic Composite total petroleum system covers the Labrador-Newfoundland Shelf (5215) exclusive of the Egret-Hibernia total petroleum system in the Jeanne d'Arc basin. The area of the Graben Systems Exclusive of Jeanne d'Arc coincides with the Mesozoic Composite total petroleum system. Very little is known about this area except that rift basins similar to the Jeanne d'Arc basin occur, such as the Saglek, Hopedale, East Newfoundland (Orphan), Flemish Pass, Carson, Horshoe, and Whale basins (Balkwill and Legall, 1989; Bell and Campbell, 1990; Creany and Allison, 1987; and Welsink and others, 1989). Each rift basin could include a pod of active source rock; however, except for a significant volume of gas tested from a few wells in the Hopedale basin (Petroconsultants, 1996), there are no indications that oil or gas occurs in commercial quantities. For this reason, this assessment unit was not assessed.

#### **REFERENCES:**

- Balkwill, H.R., and Legall, F.D., 1989, Whale basin, offshore Newfoundland; extension and salt diapirism *in*, Tankard, A.J., and Blackwell, H.R., eds., Extensional tectonics and stratigraphy of the North Atlantic margins: American Association of Petroleum Geologists Memoir 46, p. 233-245.
- Bell, J.S., and Campbell, G.R., 1990, Petroleum resources *in*, Keen, M.J., and Williams, G.L., eds., Geology of the continental margin of eastern Canada: Geological Survey of Canada, Geology of Canada, no. 2, p. 677-720.
- Creaney, S., and Allison, B.H., 1987, An organic geochemical model of oil generation in the Avalon/Flemish Pass sub-basins, east coast Canada: Bulletin of Canadian Petroleum Geology, v. 35, p. 12-23.
- Petroconsultants, 1996, Petroleum exploration and production database, Houston, Texas, Petroconsultants, Inc.; database available from Petroconsultants, Inc., P.O. Box 740619, Houston, Texas 77274-0619.
- Welsink, H.J., Srivastava, S.P., and Tankard, A.J., 1989, Basin architecture of the Newfoundland continental margin and its relationship to ocean crust fabric during extension *in*, Tankard, A. J., and Blackwell, H. R., eds., Extensional tectonics and stratigraphy of the North Atlantic margins: American Association of Petroleum Geologists Memoir 46, p. 197-213.



### **Graben Systems Exclusive of Jeanne d'Arc** Assessment Unit - 52150201

#### **EXPLANATION**

- Hydrography
- Shoreline

5215 — Geologic province code and boundary

- --- Country boundary
- Gas field centerpoint

Assessment unit 52150201 — Oil field centerpoint code and boundary

Projection: Lambert. Standard parallels: 49 and 77. Central meridian: -92

# SEVENTH APPROXIMATION NEW MILLENNIUM WORLD PETROLEUM ASSESSMENT DATA FORM FOR CONVENTIONAL ASSESSMENT UNITS

Date:	12/13/99							
Assessment Geologist:								
Region:				5				
	Labrador-Newfoundland Shelf	Number:	5215					
Priority or Boutique								
Total Petroleum System:			Number:					
	Graben Systems Exclusive of Jea	anne d'Arc	Number:	52150201				
* Notes from Assessor	Hypothetical Assessment Unit							
CHARACTERISTICS OF ASSESSMENT UNIT								
Oil (<20,000 cfg/bo overall) <u>or</u> Gas ( <u>&gt;</u> 20,000 cfg/bo overall):								
	ential to be added to reserves in the							
Number of discovered fields e	xceeding minimum size:	Oil:	Gas:					
Established (>13 fields)	Frontier (1-13 fields)		ical (no fields)					
Median size (grown) of discov	•	المام المام	2.4 2.4					
Median size (grown) of discov	1st 3rd ered gas fields (bofg):	2nd 3rd	3ra 3ra					
wedian size (grown) or discov	1st 3rd	2nd 3rd	3rd 3rd					
Assessment-Unit Probabilities:  Attribute  1. CHARGE: Adequate petroleum charge for an undiscovered field ≥ minimum size								
Assessment-Unit GEOLOGIC	C Probability (Product of 1, 2, and	l 3):						
4. ACCESSIBILITY: Adequa	te location to allow exploration for	an undiscovered field						
·								
UNDISCOVERED FIELDS  Number of Undiscovered Fields: How many undiscovered fields exist that are ≥ minimum size?:  (uncertainty of fixed but unknown values)								
Oil fields:	min. no. (>0)	median no.	max no.					
Gas fields:	` , <u> </u>	median no.	max no.					
Size of Undiscovered Fields: What are the anticipated sizes (grown) of the above fields?:  (variations in the sizes of undiscovered fields)								
Oil in oil fields (mmbo)	min. size	median size	max. size					
Gas in gas fields (bcfg):		median size	max. size					

#### AVERAGE RATIOS FOR UNDISCOVERED FIELDS, TO ASSESS COPRODUCTS

(uncertainty of fixed but unknown values)								
minimum	median	maximum						
minimum	median	maximum 						
<del></del>								
	-	maximum						
minimum	median	maximum						
	minimum  minimum  minimum  ATA FOR UNDISC  perties of undiscove minimum  minimum  minimum	minimum median  minimum median  MATA FOR UNDISCOVERED FIELDS perties of undiscovered fields) minimum median  minimum median  minimum median						

## ALLOCATION OF UNDISCOVERED RESOURCES IN THE ASSESSMENT UNIT TO COUNTRIES OR OTHER LAND PARCELS (uncertainty of fixed but unknown values)

1represent	sareal % of the total assessment unit			
Oil in Oil Fields: Richness factor (unitless multiplier):	minimum	median	maximum	
Volume % in parcel (areal % x richness factor): Portion of volume % that is offshore (0-100%)				
Gas in Gas Fields:	minimum	median	maximum	
Richness factor (unitless multiplier):				