



SCOTIAN SHELF PLATE-FORME NÉO-ÉCOSSAISE
STRUCTURE AND ISOPACH 10 STRUCTURE ET ISOPAQUES
ISOPACH MAP OF PETREL CARTE ISOPAQUE, DU REPÈRE DE
MARKER TO "O" MARKER PETREL JUSQU'AU REPÈRE "O"

B. C. MacLean

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Additional copies of this map may be obtained from the Geological Survey of Canada, Atlantic Geoscience Centre, P. O. Box 1006, Dartmouth, Nova Scotia B2Y 4A2 Canada (Ph: 902-426-2773; FAX: 902-426-4266).

Notation bibliographique conseillée: MacLean, B. C., 1991: Structure et isopaques 11: carte isopaque, du repère de Petrel jusqu'au repère "O"; dans Série des atlas des bassins de la côte Est: plate-forme Néo-Écossaise; Centre géoscientifique de l'Atlantique, Commission géologique du Canada, p. 93.

Des copies supplémentaires de la carte peuvent être obtenues auprès de la Commission géologique du Canada, Centre géoscientifique de l'Atlantique, case postale 1006, Dartmouth (Nouvelle-Écosse) B2Y 4A2 Canada tél (902) 426-2773, facsimilé (902) 426-4266.

This map is the result of subtracting the Petrel marker depth contours (see map sheet Structure and Isopach 5, this volume) from those of the "O" Marker (see map sheet Structure and Isopach 4, this volume) and deleting the faults. This interval includes the uppermost Missisauga Formation, the Logan Canyon Formation, and the lowermost Dawson Canyon Formation including the Petrel Member limestone. Regular seaward thickening of this interval culminates in a depocentre south and west of Sable Island, and the area of thick sedimentation to the north attests to continued growth of the Abenaki Subbasin diapirs.

SELECTED BIBLIOGRAPHY

Ascoll, P.

1976: Foraminiferal and ostracod biostratigraphy of the Mesozoic-Cenozoic, Scotian Shelf, Atlantic Canada; in First International Symposium on Benthonic Foraminifera of Continental Margins, Part B, Paleoecology and Biostratigraphy, (ed.) C. T. Schafer and B. R. Pelletier; Maritime Sediments, Special Publication No. 1, p. 653-771.

Barss, M. S., Bujak, J. P., and Williams, G. L.

1979: Palynological zonation and correlation of

sixty-seven wells, eastern Canada; Geological Survey of Canada, Paper 78-24, 118 p.

Given, M. M.

1977: Mesozoic and early Cenozoic geology of offshore Nova Scotia; Bulletin of Canadian Petroleum Geology, v. 25, p. 63-91.

Jansa, L. F. and Wade, J. A.

1975: Geology of the continental margin off Nova Scotia and Newfoundland; in Offshore Geology of Eastern Canada, Volume 2, Regional Geology, (ed.) W. J. M. van der Linden and J. A. Wade; Geological Survey of Canada, Paper 74-30, v. 2, p. 51-106.

McIver, N. L.

1972: Mesozoic and Cenozoic stratigraphy of the Nova Scotia shelf; Canadian Journal of Earth Sciences, v. 9, p. 54-70.

Wade, J. A. and MacLean, B. C.

1990: The geology of the southeastern margin of Canada, part 2: aspects of the geology of the Scotian Basin from recent seismic and well data; in Geology of the Continental Margin of Eastern Canada, (ed.) M. J. Keen and G. L. Williams; Geological Survey of Canada, Geology of Canada, no. 2, p. 190-238 (also Geological Society of America, The Geology of North America, v. I-1).



La présente carte a été obtenue en soustrayant les isobathes du marqueur (repère) de Petrel (voir la carte Structure et isopaques 5 dans le présent volume) de celles du marqueur (repère) «O» (voir la carte Structure et isopaques 4 du présent volume) et en omettant toutes les failles. Cet intervalle comprend la partie sommitale de la Formation de Missisauga, la Formation de Logan Canyon et la partie basale de la Formation de Dawson Canyon, y compris le calcaire du Membre de Petrel. Un épaississement régulier vers le large de cet intervalle culmine dans une zone de dépôt maximal au sud et à l'ouest de l'île de Sable, et la zone d'accumulations sédimentaires épaisses au nord atteste de la croissance continue des diapirs dans le sous-bassin d'Abenaki.

BIBLIOGRAPHIE CHOISIE

Ascoll, P.

1976: Foraminiferal and ostracod biostratigraphy of the Mesozoic-Cenozoic, Scotian Shelf, Atlantic Canada; in First International Symposium on Benthonic Foraminifera of Continental Margins, Part B, Paleoecology and Biostratigraphy, (ed.) C. T. Schafer and B. R. Pelletier; Maritime Sediments, Special Publication No. 1, p. 653-771.

Barss, M. S., Bujak, J. P., et Williams, G. L.

1979: Palynological zonation and correlation of sixty-seven wells, eastern Canada; Geological Survey of Canada, Paper 78-24, 118 p.

Given, M. M.

1977: Mesozoic and early Cenozoic geology of offshore Nova Scotia; Bulletin of Canadian Petroleum Geology, v. 25, p. 63-91.

Jansa, L. F. et Wade, J. A.

1975: Geology of the continental margin off Nova Scotia and Newfoundland; in Offshore Geology of Eastern Canada, Volume 2, Regional Geology, (ed.) W. J. M. van der Linden and J. A. Wade; Geological Survey of Canada, Paper 74-30, v. 2, p. 51-106.

McIver, N. L.

1972: Mesozoic and Cenozoic stratigraphy of the Nova Scotia shelf; Canadian Journal of Earth Sciences, v. 9, p. 54-70.

Wade, J. A. et MacLean, B. C.

1990: The geology of the southeastern margin of Canada, part 2: aspects of the geology of the Scotian Basin from recent seismic and well data; in Geology of the Continental Margin of Eastern Canada, (ed.) M. J. Keen and G. L. Williams; Geological Survey of Canada, Geology of Canada, no. 2, p. 190-238 (also Geological Society of America, The Geology of North America, v. I-1).

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