

SHEET 5 OF 5: COMPOSITE LEGEND WITH EXPLANATORY NOTES

SILURIAN(?) STRATA (unnamed)

marine shelf (subsurface only)

Limestone, dolostone, minor calcareous shale; unrestricted

SCHEMATIC STRATIGRAPHIC RELATIONSHIPS: PRINCE PATRICK AND EGLINTON ISLANDS SOUTHWEST NORTHEAST LANDING CREEK SATELLITE ~ TJH. T<sub>BB</sub> CP. \*INTERSECTED BY EXPLORATORY HOLES ONLY

Geological compilation by J.C. Harrison

Geology by J.C. Harrison, 1987, 1991 and 1992, supported by A.F. Embry, T.P. Poulton, Q. Goodbody, J.G. Fyles, D.A. Hodgson and J.H. Wall in 1987; R. Brady in 1991 and T. de Freitas in 1992. Additional observations from E.T. Tozer and R. Thorsteinsson, Geological Survey of Canada, Memoir 332 (1964) and from A.F. Embry and J.E. Klovan, Bulletin of Canadian Petroleum Geology, v. 24, no. 4 (1976).

Thanks are extended to A.F. Embry for critical comments and advice in the preparation of this preliminary map for publication; and to the Polar Continental Shelf Project for logistical support in the field.

Base maps assembled from the topographic maps published at the same scale by the Army Survey Establishment, R.C.E., 1965; and by the Surveys

and Mapping Branch, Energy, Mines and Resources, Canada, 1983. Copies of the topographic maps covering this area may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, Ontario K1A 0E9.

Magnetic declination in 1990 varied from 54° easterly, decreasing 29' annually, in the vicinity of Cape Manning (lat. 75°52' N; long. 122°20' W) to 55°E easterly, decreasing 35' annually, at Mould Bay Station (lat. 76°15' N; long. 119°22' W) to 62° easterly, decreasing 50' annually in the vicinity of Cape Krabbe (lat. 77°30' N; long. 116°02' W). The daily change in the position of the North Magnetic Pole causes the magnetic compass to be very erratic

Elevations in feet above mean sea level

SCHEDULE OF WELLS Elf Jameson Bay C-31 T.D. 2538.0 m (abandoned 5/71) BP et al. Satellite F-68 T.D. 3723.9 m (abandoned 5/72) Elf Intrepid Inlet H-49 T.D. 1716.6 m (abandoned 3/73) Elfex Andreasen L-32 T.D. 2174.2 m (abandoned 5/73) Panarctic Gulf Eglinton P-24 T.D. 1859.6 m (abandoned 7/74) Panarctic et al. Pedder Pt. D-49 T.D. 1897.3 m (abandoned 11/74) Elfex et al. Wilkie Pt. J-51 T.D. 2374.7 m (abandoned 5/75) Elf et al. Dyer Bay L-49

T.D. 3208.9 m (abandoned 2/76)

Geological boundary (defined, approximate, assumed) Bedding, tops known (horizontal, inclined) . Bedding (from aerial photographs) Fault, normal (synonymous with extension fault; hachures indicate inferred dip direction of fault and downthrown side; defined, approximate) . Fault, strike-slip (arrows indicate relative movement; solid circle indicates local, relative, downthrown side; defined, approximate) ... Fault, thrust (synonymous with contraction fault; teeth indicate inferred dip direction of fault and upthrust side; defined, approximate) ... Fault, undetermined (solid circle indicates downthrown side where known; defined, approximate) ..... Anticline (trace of axial plane; upright or inclined; arrow indicates plunge direction; defined, approximate) . . . . Syncline (trace of axial plane; upright or inclined; arrow indicates plungle direction; defined, approximate) . . . Location of formation type section . Borehole (abandoned) ... Mineral occurrence (bitumen, coal, manganese) .... Fossil occurrence . . . Unconformity (stratigraphic relations diagram only) ... Limit of mapping (stratigraphic relations diagram only) ... Facies change (stratigraphic relations diagram only) .

