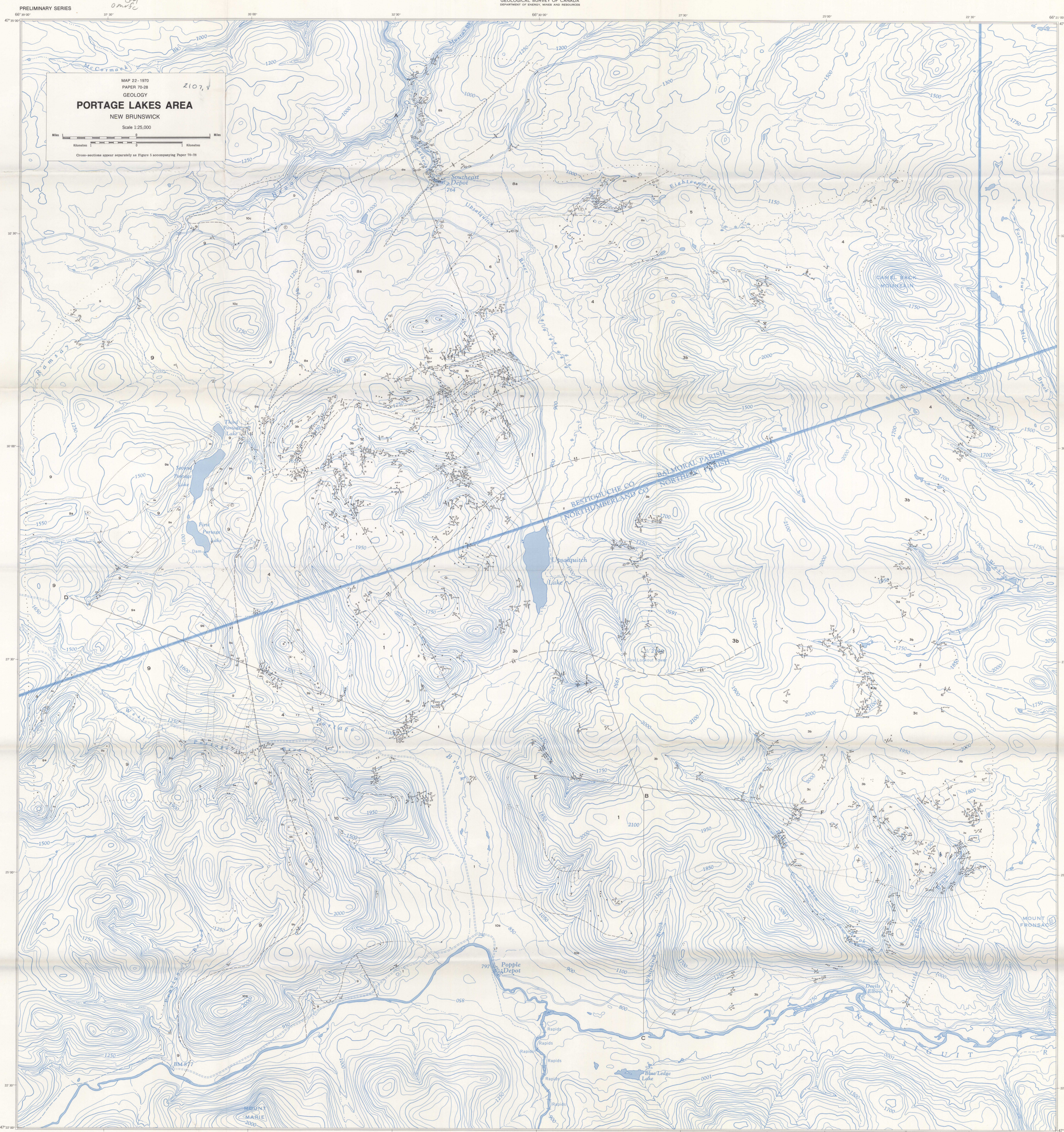


C-3401
1956
O.M.S.
22-1970
C.2



MAP 22-1970
PAPER 70-28
GEOLOGY
PORTAGE LAKES AREA
NEW BRUNSWICK
Scale 1:25,000
Cross-sections appear separately as Figure 5 accompanying Paper 70-28

- LEGEND**
- DEVONIAN (?) AND (?) YOUNGER**
- 10 Diabase dykes
- MIDDLE DEVONIAN**
- 10a Subvolcanic intrusions, undivided; 10b, granite; 10c, trachyte; 10d, gabbro
- EARLY DEVONIAN**
- 9 Light brown to grey-green sandstone, siltstone, with: 9a, interlayered sandstone, in part amygdaloidal; 9b, aluminous siltstone and tuff; 9c, quartzite
- SILURIAN**
- 8 LATE SILURIAN: 8a, blue-grey shale, grey argillite, sandstone, with grey-green to maroon conglomerate (esp. 1); 8b, grey-green, banded, slaty siltstone, in part with laminated limestone nodules
- ORDOVICIAN (?)**
- 7a Pink to brown metagabbro
 - 6 Grey to grey-green metagabbro
- ORDOVICIAN EARLY TO MIDDLE ORDOVICIAN AND (?) OLDER**
- TECTONIC GROUP**
- 5 Massive, grey-green to green, basic to intermediate gneiss
 - 4 Slate, chert, andesitic metavolcanics; 4a, red to maroon and green magnesian shale and chert; 4b, dark grey to black slate, in part phyllite, shaly bedded grey chert; 4c, grey limestone conglomerate, bituminous crystalline limestone; 4d, dark green to purple andesite, in part vascular; 4e, chlorite schist, probably metamorphosed intermediate to basic tuff
 - 3 3a, grey to brown schist; 3b, quartz-feldspar augen-schist, includes metamorphosed andesitic schist; 3c, quartz-chlorite and quartz-muscovite schist; 3d, intercalations of actinolite schist
 - 2 Grey slate, grey-green metasilicate, metagraywacke
 - 1 Grey, laminated, fine- to medium-grained quartzite, grey phyllite
- Other symbols:**
- Black contour (quadrangle), area of contour
 - Area of rock fragments (subvolcanic of bedrock type mostly)
 - Geological boundary (approximate, assumed)
 - Limit of present study area
 - 8a Bedding, top known (inclined)
 - 8b Bedding, top unknown (inclined, vertical)
 - 8c Cleavage, foliation (horizontal, inclined, vertical)
 - 8d Unconformity, erosional, folded
 - Overall trend lines of 8a, 8b, 8c, 8d, 8e, 8f, 8g, 8h, 8i, 8j, 8k, 8l, 8m, 8n, 8o, 8p, 8q, 8r, 8s, 8t, 8u, 8v, 8w, 8x, 8y, 8z
 - 8a Crementation cleavage, fracture cleavage (inclined, vertical)
 - 8b Crementation cleavage (top unknown with zone of crumpling)
 - 8c Crementation cleavage, fracture cleavage (inclined, vertical)
 - 8d Mineral lineation, intersection 8a/8b
 - 8e Crementation zone, intersection 8a/8b
 - 8f Crementation zone on 8a, intersecting 8b
 - Folds, mesoscopic (F1, F2, F3): additional symbols F4, F5 indicate the generation of the fold with plunge or axial plane or both
 - Strike-slip (conjugate, asymmetric)
 - F1 Anticline (approximate location of axis, overturned)
 - F2 Syncline (approximate location of axis, overturned)
 - F3 Anticline and syncline (approximate location of axis)
 - F4, F5, F6, F7, F8, F9, F10, F11, F12, F13, F14, F15, F16, F17, F18, F19, F20, F21, F22, F23, F24, F25, F26, F27, F28, F29, F30, F31, F32, F33, F34, F35, F36, F37, F38, F39, F40, F41, F42, F43, F44, F45, F46, F47, F48, F49, F50, F51, F52, F53, F54, F55, F56, F57, F58, F59, F60, F61, F62, F63, F64, F65, F66, F67, F68, F69, F70, F71, F72, F73, F74, F75, F76, F77, F78, F79, F80, F81, F82, F83, F84, F85, F86, F87, F88, F89, F90, F91, F92, F93, F94, F95, F96, F97, F98, F99, F100
 - Fault (defined, approximate, assumed)
 - Joint (inclined, vertical)
 - Glacial strike direction of non-movement (oblique)
 - Fossil locality
 - Subglacial deposits
 - Mineral occurrence, pyrite: py, goethite: G

Geology by H. Holmstedt, 1969
To accompany Paper 70-28 by H. Holmstedt
Geological cartography by the Geological Survey of Canada
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada
Base-map from parts of maps published at 1:50,000 scale by the Survey and Mapping Branch in 1956, 1957, 1958
Copies of the topographical edition of this map may be obtained from the Map Distribution Office, Department of Energy, Mines and Resources, Ottawa
Approximate magnetic declination 1970, 22° 23' West decreasing 2.7' annually
Elevations in feet above mean sea-level

2107m	2107m	2107m	2107m
2107m	2107m	2107m	2107m
2107m	2107m	2107m	2107m

