





Geology by A.S. Dyke, 2002 Field data provided by De Beers Canada Inc., 2002

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Digital cartography by M.M. Proulx, Earth Sciences Sector Information Division (ESS Info)

SURFICIAL GEOLOGY **ERICHSEN LAKE**

OPEN FILE 1605

BAFFIN ISLAND NUNAVUT Scale 1:50 000/Échelle 1/50 000 Universal Transverse Mercator Projection Projection transverse universelle de Mercator North American Datum 1983 Système de référence géodésique nord-américain, 1983

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Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Digital base map from data compiled by Geomatics Canada, modified by ESS Info Locational accuracy of the base appears to be ±100m based on

Proximity to the North Magnetic Pole causes the magnetic compass to be erratic in this area Mean magnetic declination 2003, 43°15'W, decreasing 44.9' annually Elevations in metres above mean sea level

plotting of GPS measured field site locations

47 E/13	47 E/14	47 E/15	47 E/16
OF 1601	OF 1600	OF 1599	OF 1598
47 E/12	47 E/11	47 E/10	47 E/9
OF 1602	OF 1603	OF 1604	OF 1605
47 E/5	47 E/6	47 E/7	47 E/8
OF 1609	OF 1608	OF 1607	OF 1606
47 E/4	47 E/3	47 E/2	47 E/1
OF 1610	OF 1611	OF 1612	OF 1613
47 D/13	47 D/14	47 D/15	47 D/16
OF 1628	OF 1629	OF 1630	OF 1631
		STEM REFERENCE AI	

This legend is common to Open Files 1598 to 1613, and 1628 to 1631. Coloured legend blocks indicate map units that appear on this map.

Ар	Alluvial plains: active braided floodplains; includes active proglacial outwas

MARINE AND GLACIAL MARINE SEDIMENTS: gravel, sand, silt, and clay, $1-20\,\mathrm{m}$ thick, deposited in deltaic and beach environments during regression of the

Mr Beach sediments: gravel and sand, 1-5 m thick, forming ridges and swales.

Deltaic sediments: clay, silt, sand, and gravel, 5-20 m thick, forming coarsening

Deepwater proglacial silt veneers: silt, clay silt, and fine sand with dropstones,

GLACIAL LACUSTRINE SEDIMENTS: clay, silt, sand, and gravel deposited in glacier dammed lakes in deepwater, beach and deltaic environments.

Beach sediments: sand and gravel, 1-5 m thick, forming beach ridges. **Deltaic sediments:** clay, silt, sand, and gravel, 5—20 m thick, forming coarsening

Deepwater proglacial silt veneers: silt, clay silt, and fine sand with dropstones,

Deepwater proglacial silt blankets: silt, clay silt, and fine sand with dropstones, **GLACIOFLUVIAL SEDIMENTS:** gravel and sand, 1-10 m thick, deposited behind,

Proglacial outwash: gravel and sand, 1-10 m thick, forming braided floodplains, Gp;

Ice contact stratified drift: gravel and sand, $1-5\,\mathrm{m}$ thick, forming eskers, Gr; and

End moraines: 5—60 m high, composed of or mantled by till, extensively kettled in places; large features mainly cored by debris-rich relict glacier ice.

Till veneer: 0.5-2 m thick, surface armoured by stones due to washing by subglacial

Till blanket: 2-10 m thick forming an undulating blanket with drumlins and ribbed

ROCK: rock of various compositions and ages (Jackson and Sangster, 1987) variously modified by glacial erosion during the Quaternary and with patchy till cover; hilly and hummocky surfaces, ice moulded in places, with lake basins in subglacially scoured regions; smooth surfaces exhibiting little or no sign of glacial erosion in peninsular interiors (Dyke, 1993); cliffs resulting from glacial over-steepening; in

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