

**LEGEND**

This legend is common to maps 1790A to 1797A, 1819A, 1822A, and 1832A to 1835A. Coloured legend blocks indicate map units that appear on this map.

**QUATERNARY**

**HOLOCENE - POST MCCONNELL GLACIATION**

- ICE (extant glaciers):** flowing or stagnant glacial ice, locally covered by debris. Also includes semi-permanent snow banks; thickness ranges from 10 m to tens of metres.
- M<sup>n</sup>:** NEOGLACIAL TILL: stony diamict, less than 1 m thick and in places discontinuous; end moraines (denoted by symbol) may be tens of metres thick and contain masses of buried glacial ice.
- O:** ORGANIC DEPOSITS: peat and muck several metres to tens of metres thick; formed predominantly by the accumulation of vegetative material in bogs, fens, and swamps in depressions and valley bottoms. Permafrost is commonly present within 1 m of the surface in blanket bog; thermokarst collapse and palsas growth are common in bogs, fens, and swamps.
- COLLUVIAL DEPOSITS:** stony diamict resulting from the breakdown of bedrock through physical and chemical weathering; variably reworked and transported by gravitational processes such as creep, solifluction, debris flow, snow avalanching, and rockfall.
- Ca:** Colluvial apron sediments: bouldery diamict, poorly sorted sands and gravels forming a wedge-like slope-toe complex of small steep debris flow and avalanche-dominated fans and solifluction deposits ranging from less than 1 m at the upslope limit to 10 m or more in the thickest part of the apron.
- bCa:** Rockfall deposits: bouldery, angular rockfall deposits that form aprons that may exceed 10 m in maximum thickness along the bases of steep slopes.
- Ap:** Alluvial deposits: gravel and sand with minor silt deposited by streams; deposits are commonly stratified and moderately to well sorted, except for some alluvial fan deposits where debris flow diamicts may be present.
- At:** Floodplain sediments: gravel and sand with minor silt; greater than 1 m thick, flat lying; includes lacustrine and organic sediments deposited in abandoned channels and backswamp areas; floodplain deposits subject to periodic inundation and reworking by floods.
- Af:** Alluvial fan sediments: gravel, sand, silt, and diamict up to 10 m or more thick; alluvial fans subject to stream avulsion and flooding and, on smaller and steeper fans, inundation by debris flows.
- Au:** Alluvial sediments, undivided: floodplains, fans, and terraces that cannot be subdivided at this map scale.

**WISCONSINAN - MCCONNELL GLACIATION**

- Lp:** Glaciolacustrine plain: silt and fine sand, minor clay; 5 m or more thick.
- Lb:** Glaciolacustrine blanket: silt and fine sand, minor clay; 1 to 3 m thick but thin enough to conform to underlying topography.
- Lv:** Glaciolacustrine veneer: silt and fine sand, minor clay; less than 1 m thick or discontinuous.
- Lx:** Glaciolacustrine complex: sand, silt, and clay; hummocky, pitted, and ridged; may comprise 10 per cent or more gravel and diamict lenses and dropstones; usually more than 5 m thick.
- Gp:** Glacioluvial plain and fan sediments: gravel, sand, and minor silt; planar surfaces; greater than 1 m thick.
- Gt:** Glacioluvial terrace sediments: gravel, sand, and minor silt; planar surfaces out by flights of terraces; greater than 1 m thick.
- Gd:** Glacioluvial delta sediments: sand, gravel, and minor silt and clay; commonly overlying lacustrine silt and clay; greater than 5 m thick.
- Gx:** Glacioluvial complex: sand, gravel, diamict, and minor silts and clays; greater than 5 m thick; forming kettles, esker and crevasse-fill ridges; includes minor elements of Gp and Gt.
- Gu:** Glacioluvial deposits, undivided: hummocky deposits of gravel, sand, and minor silt; less than 5 m thick; includes areas made up of 50 per cent units Mb and Mv.
- Mb:** Till blanket: greater than 1 m thick but conforming to the underlying topography.
- Mv:** Till veneer: less than 1 m thick or discontinuous; may contain extensive areas of thin (less than 1 m) and patchy colluvium.

**PRE-QUATERNARY**

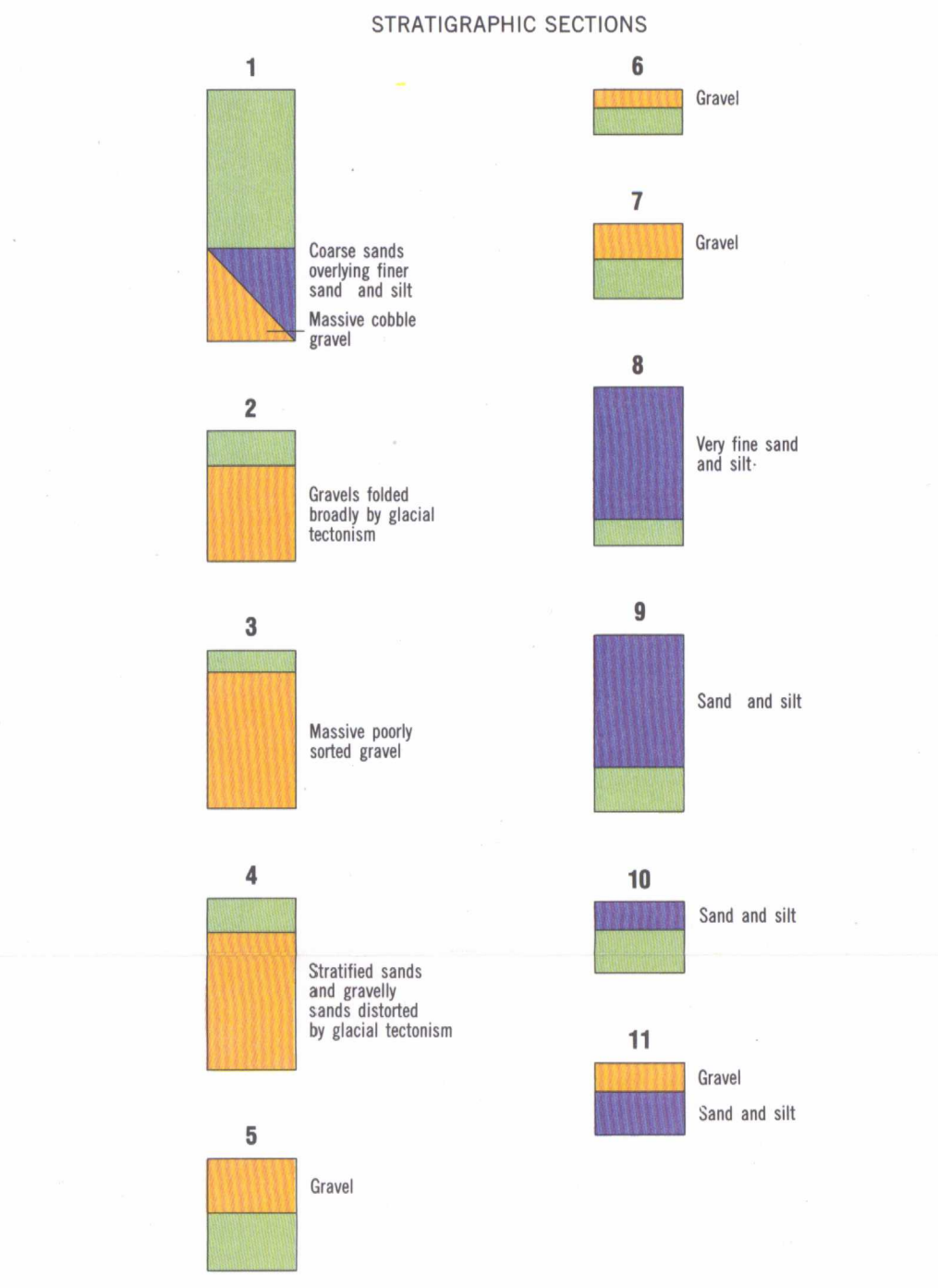
- R:** BEDROCK: volcanic, sedimentary, metasedimentary rocks, and felsic and ultramafic intrusions; includes areas of thin colluvial cover, blockfields, sorted stone polygons in alpine areas. R-A denotes bedrock subject to rockfall and snow avalanches.

**GLACIOLACUSTRINE DEPOSITS:** well stratified sand, silt, and clay deposited in lakes ponded by glacial ice; sediments may have regular surfaces or ridged, hummocky, or pitted surfaces caused by meltout buried glacial ice. Silts and clays commonly contain aggregated ground ice and are affected by retrogressive thaw flow slides along rivers and contemporary thermokarst collapse.

**GLACIOFLUVIAL DEPOSITS:** gravel, sand, and minor silt; greater than 1 m thick, deposited by streams flowing from or in contact with glacial ice, including deltas graded to former glacial lake levels. Sorting ranges from good to poor, and stratification from thin bedded to massive. Sediments commonly display evidence of syndepositional collapse due to meltout of buried or supporting ice.

**MORAINAL DEPOSITS (M):** diamict, mainly till, generally consisting of a silty sandy matrix containing pebbles, cobbles, and minor boulders; deposited either directly by glacial ice or by gravity flow from glacier ice.

**Geological boundary** .....  
**Cirque** .....  
**Arête** .....  
**Streamlined glacial bedforms (ice flow direction known, unknown)** .....  
**Ice-contact face in stratified drift (beeth on ice side)** .....  
**Esker (flow direction known or assumed, unknown)** .....  
**Subglacial and proglacial meltwater channels, large and small (arrow indicates flow direction)** .....  
**Small sidehill (lateral) meltwater channel; barb on upslope side** .....  
**Discontinuous eolian sands or silts, large and small (arrow indicates flow direction)** .....  
**Blanket bog or fen, generally <1 m thick** .....  
**Rock glacier** .....  
**Landslide; arrow(s) indicate direction of movement** .....  
**Open system pingo, collapsed open system pingo** .....  
**Thermokarst collapse activity** .....  
**Location of stratigraphic section** .....  
**+**

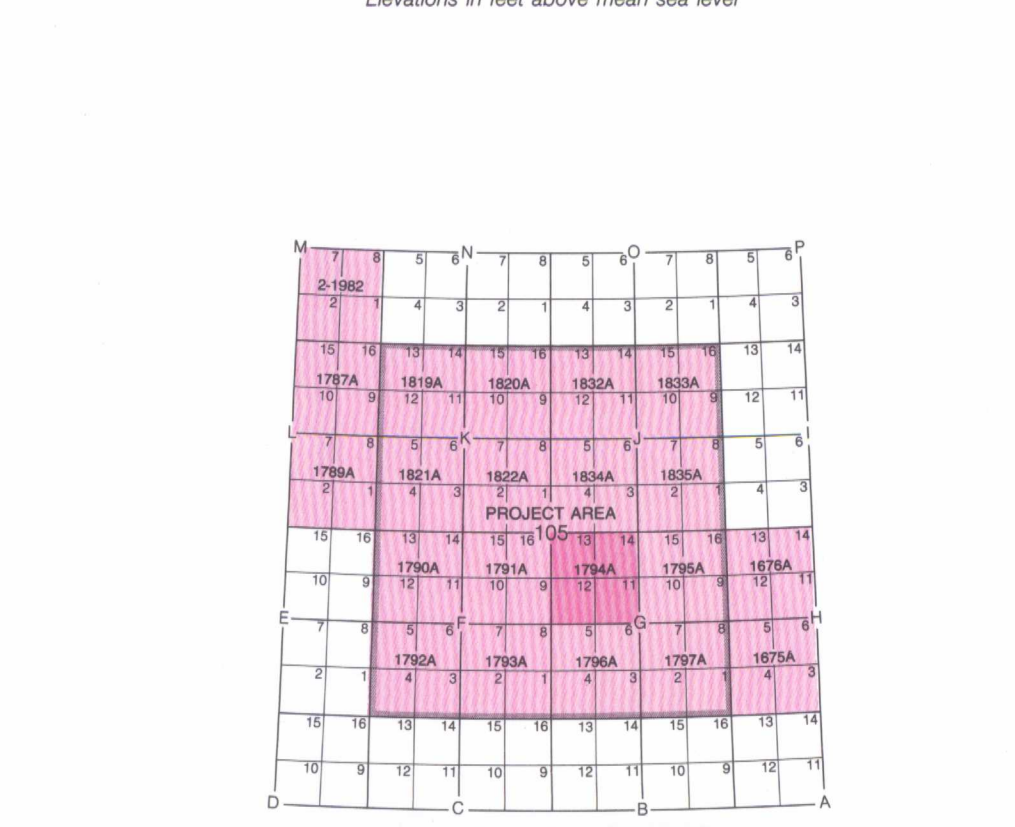


**LEGEND**

- Glaciolacustrine sediments
- Glacioluvial sediments
- Till

Vertical Scale (m)  
 15  
 10  
 5

Geology by L. E. Jackson Jr., 1981-1982  
 Geological cartography by B. Chagnon, Geological Survey of Canada  
 Colour separations were produced using digital methods  
 Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada  
 Base map assembled by the Geological Survey of Canada from maps 105 G/11 (1973), 105 G/12, 13 (1971), 105 G/14 (1974), published at 1:50 000 scale by the Surveys and Mapping Branch  
 Copies of the topographical editions covering this map area may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, Ontario, K1A 0E9  
 Mean magnetic declination 1992, 30°02' E, decreasing 12.0' annually. Readings vary from 29°46' E in the SW corner to 30°17' E in the NE corner of the map  
 Elevations in feet above mean sea level



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 MAP 1794A  
 SURFICIAL GEOLOGY  
**HOOLE RIVER**  
 YUKON TERRITORY  
 Scale 1:100 000 - Échelle 1/100 000  
 Kilometres 2 4 6 8 Kilometres  
 Universal Transverse Mercator Projection / Projection transverse universelle de Mercator  
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