GEOLOGICAL SURVEY OF CANADA — COMMISSION GÉOLOGIQUE DU CANADA

DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES

CENOZOIC

QUATERNARY
PLEISTOCENE AND HOLOCENE

- **Qe** — *Marine and estuarine deposits; mainly silt and sand; includes gravel of spits and offshore bars*
- **Qa** — *Fluviatile, glacial and marine silt, sand and gravel; undivided (in structure section 1 only)*
- **Qgf** — *Glaciofluvial deposits; sand and gravel, in part with cover of silt and/or organic deposits*
- **Ql** — *Lacustrine deposits and minor fluviatile deposits; clay, silt, sand, and gravel, mostly with cover of organic deposits*
- **Qmm** — *Hummocky or ridged moraine in area of mountain glaciation*
- **Qg** — *Gypsiferous intrusions in Richardson Fault Array*
- **B** — *Pediments; bedrock surfaces mostly with thin cover of colluvium and/or organic deposits*

TERTIARY AND QUATERNARY
EOCENE TO PLEISTOCENE

- **Tb** — *Sandstone and mudstone; fluviodeltaic; includes Beaufort Formation and Quaternary surficial deposits; undivided*

TERTIARY
?PLIOCENE

- **Tg** — *Sand, silt and gravel, possibly of fluviodeltaic origin*

MIOCENE AND PLIOCENE

- **TB** — *BEAUFORT FORMATION: unconsolidated gravel of cherty and quartzose sandstone and siltstone; alluvial*

OLIGOCENE

- **Tjc** — *Conglomeratic clay, peat; (?) lacustrine*

EOCENE

- **Ts** — *Shale and mudstone; prodeltaic, marine; intertongues with and overlies Reindeer Formation*

PALEOCENE

- **TR** — *REINDEER FORMATION: sand, gravel, lignite and mud; marine and nonmarine; gas-bearing in Taglu Field*

MESOZOIC AND CENOZOIC

CRETACEOUS AND TERTIARY
UPPER CRETACEOUS AND LOWER TERTIARY
FISH RIVER GROUP (Kcк - Tмc3)
MOOSE CHANNEL FM (Tмc1 - Tмc3)

- **Tмc3** — *Upper part: sandstone, lithic; alluvial, deltaic*
- **Tмc2** — *Ministicoog Member: mudstone and sandstone, tidal-flat deposits*
- **Tмc1** — *Lower part: sandstone, conglomeratic, lithic; alluvial and deltaic*
- **Tмc** — *MOOSE CHANNEL FORMATION: undivided*

TENT ISLAND FORMATION (Kcк - Kтi)

- **Kтi** — *Upper member: mudstone and sandstone; marine; may include Cuesta Creek Member (in structure section 2)*
- **Kcк** — *Cuesta Creek Member: conglomerate and sandstone; alluvial*

MESOZOIC

CRETACEOUS
UPPER CRETACEOUS

- **Kвc** — *BOUNDARY CREEK FORMATION: mudstone, bituminous, bentonitic; marine*

LOWER CRETACEOUS

- **Kbr** — *Sandstone, conglomerate and shale; flyschoid; may include Ksr and Kвr (in structure section 2)*
- **Ksr** — *Conglomerate and sandstone; marine*
- **Kвr** — *RAT RIVER FORMATION: sandstone and siltstone; marine*
- **Kмg** — *MOUNT GOODENOUGH FORMATION: shale and siltstone; marine*
- **Kwc3** — *Upper part: sandstone, quartzitic, ridge-forming*
- **Kwc2** — *Middle part: siltstone, pyritic; marine*
- **Kwc1** — *Lower part: sandstone, quartzitic, ridge-forming*
- **Kwc** — *Sandstone, shale and coal; marine and nonmarine; undivided; may include Martin Creek and McGuire formations (in structure section 2)*
- **Kмr** — *McGUIRE FORMATION: shale and siltstone; marine*
- **Kмc** — *MARTIN CREEK FORMATION: sandstone and shale; marine; may include Kwc in the northern Richardson Mountains*

JURASSIC AND CRETACEOUS
JURASSIC AND LOWER CRETACEOUS

- **JKн** — *HUSKY FORMATION: shale, siltstone and ironstone; marine*
- **JKp** — *PORCUPINE RIVER FORMATION: sandstone; marine and nonmarine*

JURASSIC
BUG CREEK GROUP (Jвc1 - Jaк)

- **Jaк** — *AKLAVIK FORMATION: sandstone, bluff-forming; marine*
- **Jrм** — *RICHARDSON MOUNTAINS FORMATION: sandstone and siltstone; marine*
- **Jвc1** — *Sandstone, siltstone and shale; marine; includes Murray Ridge, Almstrom Creek and Manuel Creek formations*
- **Jвc** — *BUG CREEK GROUP: undivided*

TRIASSIC
UPPER TRIASSIC

- **Ts** — *SHUBLIK FORMATION: limestone, sandstone and shale; shallow marine*

PALEOZOIC

PERMIAN
LOWER AND MIDDLE PERMIAN

- **Pт** — *TAHKANDIT FORMATION: limestone, fine grained, skeletal; chert, spicular; marine*

JUNGLE CREEK FORMATION (Pjc1 - Pjc3)

- **Pjc3** — *Sandstone, fine grained, medium grey, weathering yellowish orange; marine*
- **Pjc2 / Pjc2a** — *Mudstone, calcareous, cherty; limestone, silty, micritic (Pjc2) with prominent resistant lentils of fine grained, brown weathering, limonitic sandstone (Pjc2a); marine*
- **Pjc1** — *Conglomerate, chert-pebble; sandstone and shale; marine*
- **Pjc** — *JUNGLE CREEK FORMATION: undivided*

CARBONIFEROUS
UPPER CARBONIFEROUS
ETTRAIN FORMATION (Cε1 - Cε2)

- **Cε2** — *Limestone, light to medium grey weathering, cherty, skeletal-micritic, resistant; marine*
- **Cε1** — *Limestone, light to medium grey weathering, cherty, skeletal-micritic with partings of calcareous shale, recessive; marine*
- **Cε** — *ETTRAIN FORMATION: undivided*
- **Cb** — *Sandstone, brown weathering; conglomerate; limestone, skeletal; marine. Equivalent to upper Hart River Formation*

LOWER AND UPPER CARBONIFEROUS

- **Chr** — *HART RIVER FORMATION: limestone, brownish grey weathering, skeletal, micritic; dolomite and chert; marine; may include equivalents of Blackie Formation*
- **M0** — *Sandstone, light grey, medium grained; shale, dark grey; (?) nonmarine*
- **Cu** — *FORD LAKE SHALE, HART RIVER, Cb and ETTRAIN FORMATIONS: undivided equivalents thereof*
- **Cf** — *Shale, silty; marine and (?) nonmarine*
- **Dss** — *Sandstone, fine grained, light grey; shale, dark grey, rusty weathering; marine*

DEVONIAN AND CARBONIFEROUS
UPPER DEVONIAN AND LOWER CARBONIFEROUS

- **DCF / CF** — *FORD LAKE SHALE: shale, greyish black, siliceous; chert and limestone; marine; CF in subsurface only; may include Canol and Imperial formations*

DEVONIAN
UPPER DEVONIAN

- **Dus** — *Shale and siltstone; marine*

IMPERIAL FORMATION (Di1 - Di2)

- **Di2** — *Upper part: sandstone and siltstone; marine*
- **Di1** — *Lower part: shale and siltstone; marine*
- **Di** — *IMPERIAL FORMATION: undivided*
- **DCA** — *CANOL FORMATION: shale, siliceous; marine*

MIDDLE DEVONIAN

- **DHI** — *HARE INDIAN FORMATION: shale, siltstone and limestone; marine*
- **DHU** — *HUME FORMATION: limestone and shale; marine. (Subsurface only)*

LOWER AND MIDDLE DEVONIAN

- **Do** — *OGILVIE FORMATION: limestone, black, argillaceous; shale, calcareous; marine*
- **Dg** — *GOSSAGE FORMATION: limestone and dolomite, fine crystalline to aphanitic, brown; marine*
- **DL** — *LANDRY FORMATION: limestone, black, fine grained, well bedded, resistant; marine*
- **DMI** — *MICHELLE FORMATION: shale, black, calcareous; limestone, black, richly fossiliferous; dolomite, orange brown weathering*
- **Dar** — *Limestone, black, fine grained, mesa-forming; orange weathering dolomite at base; marine; includes Cranswick Formation (obsolete)*

SILURIAN AND DEVONIAN
UPPER SILURIAN AND LOWER DEVONIAN

- **SDd / SDD** — *Dolomite, silty, pale orange weathering; limestone, micritic; marine*

ORDOVICIAN AND SILURIAN
UPPER ORDOVICIAN AND LOWER SILURIAN

- **OSk** — *MOUNT KINDLE FORMATION: dolomite, light grey weathering, siliceous; minor chert; marine*

CAMBRIAN TO DEVONIAN
UPPER CAMBRIAN TO LOWER DEVONIAN
ROAD RIVER FORMATION (ЄDR0 - ЄDR4)

- **ЄDR4** — *Shale and limestone, black, graptolitic; marine*
- **ЄDR3** — *Siltstone, medium grey, platy; limestone, dark grey; marine*
- **ЄDR2** — *Sharpstone breccia, heterogeneous, commonly with limestone and chert clasts; turbiditic*
- **ЄDR1** — *Shale and limestone, black, graptolitic; marine*
- **ЄDR0** — *Shale, black, calcareous; limestone, black; marine*
- **ЄDR** — *ROAD RIVER FORMATION: undivided*
- **ЄDb** — *Limestone, dolomite and shale; undivided; marine*

(ЄDR and ЄDb are facies equivalents)

CAMBRIAN AND ORDOVICIAN
UPPER CAMBRIAN AND LOWER ORDOVICIAN

- **ЄOF** — *FRANKLIN MOUNTAIN FORMATION (and equivalents): dolomite and limestone; shale interbeds; marine*

LOWER CAMBRIAN TO MIDDLE OR UPPER ORDOVICIAN

- **ЄOJR** — *JONES RIDGE LIMESTONE: limestone, biogenic, oolitic, siliceous, massive; marine; may include Ogilvie Formation locally*

CAMBRIAN
UPPER CAMBRIAN

- **ЄTA** — *TAIGA FORMATION: limestone and dolomite, fine crystalline, light grey, weathering striped yellow and orange; marine*

MIDDLE CAMBRIAN

- **ЄSC** — *SLATS CREEK FORMATION: sandstone, fine grained, medium grey; siltstone, brown weathering; marine*

LOWER CAMBRIAN

- **Єl** — *ILLTYD FORMATION: limestone, fine crystalline, dark grey; marine*
- **Єla** — *Dolomite, light grey, medium crystalline, biohermal; marine*
- **ЄSK** — *SEKWI FORMATION: limestone, dolomite; minor shale and quartzite; may include Backbone Ranges Formation locally; marine*
- **ЄB** — *BACKBONE RANGES FORMATION: sandstone, dolomite and varicoloured shale; marine and (?) nonmarine*

PROTEROZOIC

PRECAMBRIAN

- **Hs** — *SHEEPBED FORMATION: shale, dark grey to black; marine*
- **Hk** — *KEELE FORMATION: limestone, dolomite, quartzite, shale and conglomerate; marine*
- **Ht** — *TWITYA FORMATION: shale, siltstone and limestone; (?) marine*
- **Hr** — *RAPITAN FORMATION: diamictite, massive; and siltstone; highly ferruginous, dark red weathering; iron formation at several horizons in the lower one third of the unit*

LITTLE DAL FORMATION (HLD1 - HLD2)

- **HLD2** — *Dolomite, limestone, quartzite, shale and gypsum; marine*
- **HLD1** — *Limestone, fine grained, massive, light grey weathering; marine*
- **HLD** — *LITTLE DAL FORMATION: undivided*
- **Hk** — *KATHERINE GROUP: quartzite, dolomite, and shale; undivided; marine and (?) nonmarine*
- **Hz** — *TSEZOTENE FORMATION: shale, sandstone, and dolomite; marine and (?) nonmarine; gabbro sills. Base not seen*

GILLESPIE LAKE GROUP (HG1 - HG2)

- **HG2** — *Dolomite, medium and dark grey; silty, algal, pale orange weathering; marine*
- **HG1** — *Dolomite, medium and dark grey; silty, medium and light grey weathering; marine*
- **HG** — *GILLESPIE LAKE GROUP: undivided; marine. (Subsurface only)*
- **HQ / HQ** — *QUARTET GROUP: argillite, dark grey to black, slaty; quartzite, pale greenish grey, fine grained; (?) marine. Base not seen*
- **Hp** — *PINGUICULA GROUP: limestone, dolomite, shale and sandstone; undivided; marine*
- **Htr** — *TINDIR GROUP: shale, greyish black; limestone; dolomite; diabase sills and dykes; undivided*
- **Pq** — *Quartzite, and argillite; age unknown but conceivably may be as young as Early Cretaceous*

Knorr Range Succession (P1 - P3)

- **P3** — *Limestone, medium grey, fine crystalline, pale yellowish-grey weathering; dolomite, pale yellowish grey, coarse crystalline; shale, dark grey, slaty; marine*
- **P2** — *Limestone, dark grey, fine crystalline; dolomite, medium grey, medium crystalline; marine*
- **P1** — *Shale, dark grey to black, slaty; siltstone, pale olive green, micaceous, pale orange weathering; minor limestone and dolomite; marine*

(Stratigraphic correlation of Proterozoic succession in Knorr Range is unknown)

NERUOKPUK FORMATION (Pн0 - Pн6)

- **Pн6** — *Sandstone and argillite*
- **Pн5** — *Limestone and quartzite*
- **Pн4** — *Argillite, sandstone and chert*
- **Pн3** — *Argillite, limestone and siltstone*
- **Pн2** — *Argillite, limestone and sandstone*
- **Pн1** — *Argillite and limestone*
- **Pн0** — *Argillite (base not seen)*
- **Pн** — *NERUOKPUK FORMATION: undivided*

(Numbering of Pн does not necessarily imply stratigraphic order. Depositional regimes unstudied.)

- **Pv / Pd** — *Mafic volcanics and volcaniclastics (Pv); dykes (Pd)*
- **Pb** — *Breccia, heterolithic, mineralized, hosted in Quartet and Gillespie Lake groups*
- **Pu** — *Siltstone, quartzite and dolomite; (?) marine*

- **Qd** — *Rock slide debris*
- **Qf** — *Fluviatile silt, sand and gravel, in part with cover of organic deposits*
- **Qff** — *Fluviatile fan and fan apron deposits; silt, sand and gravel, in part with cover of organic deposits*
- **Qu** — *Mainly hummocky or ridged moraine and lacustrine deposits with extensive organic cover; undivided*
- **Qml** — *Hummocky or ridged moraine in area of Laurentide glaciation*

EOCENE TO (?)PLIOCENE

- **Tu** — *Mudstone, siltstone and sandstone; prodeltaic and fluviodeltaic; undivided (in structure section 1 only)*
- **TAK** — *REINDEER FORMATION Aklak Member: sandstone, conglomerate, shale and coal; nonmarine*
- **KTFR** — *FISH RIVER GROUP: mudstone and siltstone; prodeltaic and shallow marine; includes Tent Island and Moose Channel formations; undivided*
- **KTu** — *FISH RIVER GROUP AND BOUNDARY CREEK FORMATION: undivided (in structure section 1 only)*

BONNET PLUME FORMATION (Kвp - KTвp)

- **KTвp** — *Sandstone, shale, and coal; nonmarine; may include beds coeval with top of Kвp*
- **Kвp** — *Conglomerate, sandstone, shale, and coal; nonmarine*

UPPER CRETACEOUS
MONSTER FORMATION (KTм1 - KTм3)

- **KTм3** — *Upper part: conglomerate, chert-, quartz- and sandstone-pebble; mesa-forming; (?) fluviatile*
- **KTм2** — *Middle part: mudstone, silty; sandstone, carbonaceous, conglomeratic; (?) nonmarine*
- **KTм1** — *Lower part: sandstone, arkosic, brown weathering, fine grained, (?) marine*
- **Kdw** — *Sandstone and shale; marine*

LOWER CRETACEOUS

- **KKA** — *KATHUL GREYWACKE: pebble conglomerate, sandstone and argillite; marine; may include Biederman Argillite and Kingak Formation*
- **Kвi** — *BIEDERMAN ARGILLITE: argillite, black to dark grey; siltstone; sandstone; marine (turbiditic); includes Upper Triassic beds in the vicinity of Monster Synclinorium*

LOWER AND UPPER CRETACEOUS

- **KTR** — *TREVOR FORMATION: sandstone, fine grained; shale; mesa-forming; marine*
- **KAR** — *ARCTIC RED FORMATION: shale and siltstone; marine*
- **KMH** — *MARTIN HOUSE FORMATION: siltstone and shale, glauconitic, concretionary; marine*
- **KHR** — *HORTON RIVER FORMATION: shale, silty; marine*

LOWER AND UPPER CRETACEOUS
EAGLE PLAIN FORMATION (Kwr - Kcc2)

- **Kcc2** — *Sandstone, siltstone and shale; alluvial and deltaic*
- **Kcc1** — *Siltstone, sandstone and shale; alluvial and deltaic*
- **Kb** — *Shale and siltstone; marine*
- **Kfb** — *Sandstone and shale; marine*
- **Kwr** — *Shale and siltstone; marine*
- **KEP** — *EAGLE PLAIN FORMATION: undivided (in structure section 7 only)*
- **KSM** — *SHARP MOUNTAIN FORMATION: conglomerate and sandstone; marine*
- **KP** — *PARSONS SANDSTONE: sandstone, shale and siltstone; marine and nonmarine; gas-bearing in Parsons Lake Field*
- **JK / JKK** — *KINGAK FORMATION: shale, dark grey; siltstone; marine; may include Shublik, Porcupine River, and Husky formations in northern Ogilvie Mountains*
- **JKu** — *Jurassic and Lower Cretaceous clastics; undivided*
- **JKNB** — *NORTH BRANCH FORMATION: sandstone and conglomerate; marine*
- **Ts** — *Shale, calcareous, black; limestone, black, argillaceous; marine; includes Shublik Formation*

MIDDLE AND UPPER TRIASSIC

- **P3** — *Shale and siltstone; marine; may include Jurassic Murray Ridge Formation*
- **P2** — *Limestone, fine crystalline; marine*
- **P1** — *Shale and siltstone; marine*
- **P0** — *Limestone and shale; marine*
- **Pu** — *Permian clastics and carbonates; undivided*
- **Ps** — *SADLEROCHIT FORMATION: sandstone, shale and limestone; marine*
- **CPu** — *Limestone, sandstone and conglomerate, undivided; may include equivalents of Ford Lake Shale, Hart River Formation, Cb, Ettrain, and Jungle Creek formations*
- **CT** — *TUTTLE FORMATION: conglomerate and sandstone, commonly loosely consolidated, locally carbonaceous; fluviatile*

CARBONIFEROUS AND PERMIAN

LISBURNE GROUP (CA - CW)

- **CW** — *WAHOO FORMATION: limestone, crinoidal; open marine*
- **CA** — *ALAPAH FORMATION: limestone, dolomitic; open marine*
- **CP** — *Carbonates and clastics; undivided (in structure section 7 only)*
- **CL** — *LISBURNE GROUP: undivided*

DEVONIAN AND CARBONIFEROUS
UPPER DEVONIAN AND CARBONIFEROUS

- **DCu** — *CANOL FORMATION, FORD LAKE SHALE, HART RIVER FORMATION, Cb, and ETTRAIN FORMATION: undivided*

ENDICOTT GROUP (CKK - CKY)

- **CKY** — *KAYAK FORMATION: shale, coal and limestone; marine and nonmarine*
- **CKK** — *KEKIKTUK FORMATION: conglomerate and quartzite; fluviatile*

UPPER DEVONIAN

- **DNR** — *NATION RIVER FORMATION: mudstone, olive grey; sandstone, cherty, quartzose; conglomerate, chert-pebble; (?) nonmarine*

LOWER, MIDDLE (?), AND UPPER DEVONIAN

- **DMH** — *McCANN HILL CHERT: chert, light and dark grey; shale, siliceous; marine and nonmarine*

MIDDLE AND UPPER DEVONIAN

- **DHCI** — *HARE INDIAN, CANOL AND IMPERIAL FORMATIONS: shale, greenish grey and black, in part siliceous; includes basal Imperial shale; undivided*

LOWER AND UPPER DEVONIAN

- **Dsh** — *Timber Creek to Anvmerman Mountain: phyllite, shale and quartzite; marine and nonmarine (Upper Devonian)*

Snake River area; shale, grey weathering; marine; may include Canol Formation locally (Lower Devonian)

- **GDC / GDH / GS / GSM / GT / GDL** — *Old Crow, Schaeffer, Sedgwick, Ammerman and Fitton granites, Dave Lord syenodiorite; apparent radiometric ages ranging from 364 to 220 Ma.*

ORDOVICIAN AND SILURIAN

- **OSh** — *Shale, chert and quartzite; marine*

CAMBRIAN TO SILURIAN
(?)UPPER CAMBRIAN TO (?)UPPER SILURIAN

- **ЄSv** — *VUNTA FORMATION: limestone; marine*

CAMBRIAN
LOWER AND UPPER CAMBRIAN

- **Єwmv** — *Agglomerate, limestone and mafic, vesicular flows*
- **Єwms** — *Argillite, dark grey, slaty; (?) marine*

CAMBRIAN
(?)MIDDLE AND (?)UPPER CAMBRIAN

- **Є2** — *Dolomite breccia, dolomite and limestone; marine*

LOWER CAMBRIAN

- **Є1** — *Siltstone, dolomite and quartzite; marine; may be Proterozoic in part (base not seen)*

LEGEND

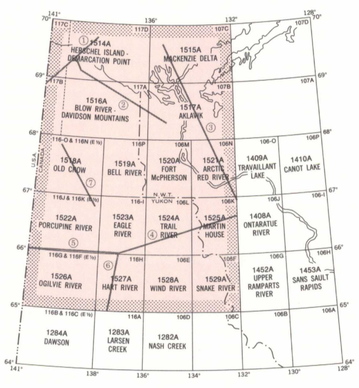
- Facies change
- Outcrop or felsenmeer examined (bedding not measurable)
- Geological boundary (defined, approximate)
- Geological boundary (assumed projection under cover of younger deposits)
- Structure contours on pre-Mesozoic unconformity, in feet (5000)
- Bedding, tops known (horizontal, inclined, vertical, overturned)
- Bedding, estimated from aircraft (horizontal, inclined, vertical, overturned)
- Foliation (inclined, vertical)
- Lineament
- Fault extension (solid circle indicates downthrow side; defined, approximate)
- Fault (assumed projection under cover of younger deposits)
- Fault, undesignated (arrow indicates relative movement; defined, approximate)
- Fault, contraction (teeth indicate upthrust side; defined, approximate)
- Fault, contraction (assumed projection under cover of younger deposits)
- Fault-line scarp (defined, approximate)
- Anticline (arrow indicates plunge; defined, approximate, overturned)
- Anticline and syncline (assumed projection under cover of younger deposits)
- Syncline (arrow indicates plunge, defined, approximate, overturned)
- Anticline and syncline (asymmetrical; long arrow points in direction of dip of axial surface)
- Drumlins, drumlinoid ridges (direction of ice movement inferred, not inferred)
- Pingo
- Eskers, ridge within esker complexes
- Fossil locality (GSC catalogue number; Calgary, Ottawa, others) — C 41895, 92498, 431 E
- Mineral occurrence — Cu
- Coal mine (abandoned)
- Stratigraphic section — 9
- Stratigraphic type section — 3
- Borehole (dry and abandoned, suspended gas, suspended oil, suspended oil and gas, shallow)
- Breccia pipe
- Gas seep reported
- Paleontological age on fossil locality (determined, indeterminate, spurious); for explanation of geological time symbols, see Geotectonic Correlation Chart 1532A — KBa-Ap, i, (DFa)
- Apparent radiometric age (millions of years) — 93Ma
- Tentative formational assignment — ?Cw
- Formation inferred beneath cover of younger rocks — Qml / Kcк
- Line of section — 1 — 1

MINERALS

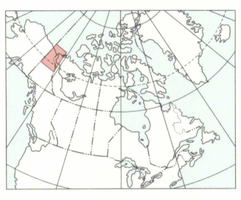
Arsenic	As	Barium	Ba
Coal	C	Cobalt	Co
Copper	Cu	Iron	Fe
Lead	Pb	Silver	Ag
Uranium	U	Zinc	Zn

Compiled by D.K. Norris, 1983

Drafted by S.D. Orzeck, Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada



NTS REFERENCE AND INDEX TO GSC MAPS SHOWING LINES OF SECTION. FOR STRUCTURE SECTIONS, SEE SHEET 1530A
('Operation Porcupine' outlined by shaded area)



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COMPOSITE LEGEND 1585A - TO ACCOMPANY MAPS 1514A TO 1529A, AND STRUCTURE SECTION DIAGRAM 1530A (OPERATION PORCUPINE PROJECT AREA)

(file with 1514A)

1585A

Canada

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