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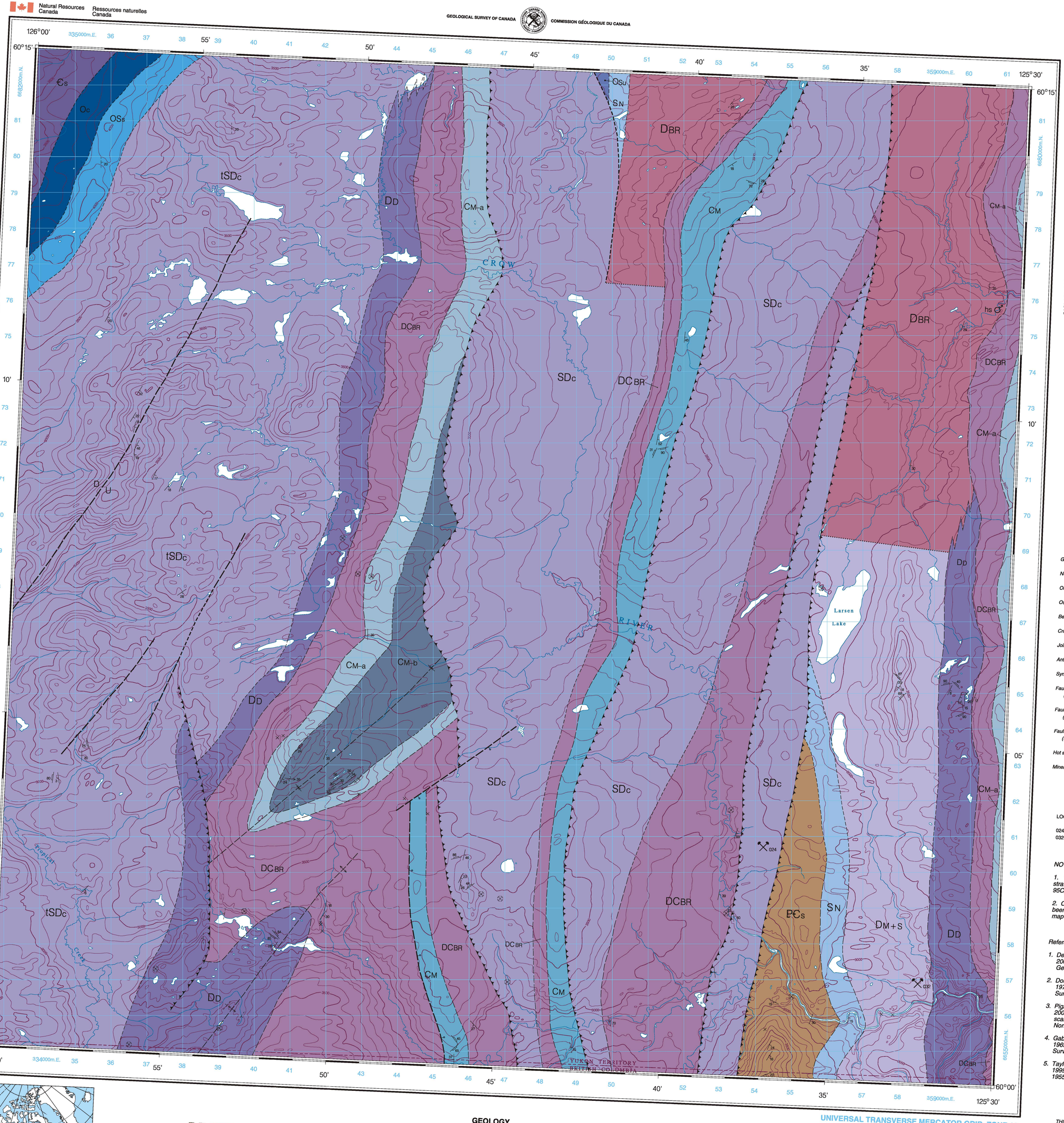
GEOLOGICAL SURVEY OF CANADA | COMMISSION GÉOLOGIQUE DU CANADA



UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 10

LEGEND

PALEOZOIC

LOWER CARBONIFEROUS

MATTSON FORMATION

CM — *MATTSON FORMATION UNDIVIDED: Orange-, grey-, or buff-weathering, grey to buff, very fine- to fine-grained sandstone interbedded with subordinate siltstone and dark shale; sandstone massive to cross-bedded, locally calcareous; locally poorly indurated; pyrobitumen and detrital muscovite locally present.*

CM–b — *Member B: Orange-, light grey-, pinkish-grey-, white-, or buff-weathering, grey or buff, very fine- to fine-grained sandstone; locally calcareous; locally poorly indurated; commonly medium to very thick bedded; massive to rippled to cross-bedded; lesser siltstone.*

CM–a — *Member A: Grey- to greyish-orange-weathering, light grey or buff, well-indurated, fine- to very fine-grained quartz arenite interbedded with dark grey to black shale and lesser siltstone on the order of 10 to 15 metres; sandstone massive to cross-bedded; ripples and load casts locally present; detrital coarse muscovite and pyrobitumen locally present.*

DEVONIAN AND CARBONIFEROUS

DCBR — *BESA RIVER FORMATION: Pale bluish-grey-weathering, dark grey to black shale, locally carbonaceous; lesser siltstone, bedded chert, and siliceous limestone; minor thin-bedded sandstone.*

DEVONIAN

DBR — *Beaver River map unit: Buff- to grey-weathering, light to medium grey, thick-bedded, finely crystalline, unfossiliferous dolostone; small vugs commonly present; uppermost interval contains interbeds of fossiliferous dolostone with Gasterocoma bicaula. Correlative with Muncho-McConnell, Stone, and Dunedin formations. (See Note 1).*

DD — *DUNEDIN FORMATION: Grey-weathering, medium to dark grey, medium- to thick-bedded limestone and dolomitic limestone; mudstone to wackestone to fossil grainstone; crinoid debris locally abundant; Manetoe-facies dolomitization locally developed east-southeast of Larsen Lake.*

DM+S — *MUNCHO-McCONNELL AND STONE FORMATIONS: Buff- to grey-weathering, light to medium grey, medium- to thick-bedded, unfossiliferous, finely crystalline dolostone; locally vuggy, laminated, or sandy; laminated dolomitic siltstone locally present.*

SILURIAN AND DEVONIAN

SDc — *Undivided Silurian to Devonian carbonate: Buff- to grey-weathering, light to medium grey, thick-bedded dolostone or limestone; locally vuggy; locally fossiliferous. Correlative with Nonda, Muncho-McConnell, Stone, and Dunedin formations and with Beaver River map unit. tSDc = tectonic package of rocks dominated by SDc but possibly containing other stratigraphic units interleaved by faulting or folding.*

SILURIAN

SN — *NONDA FORMATION: Dark grey, fetid, medium- to thick-bedded, fossiliferous dolostone; discontinuous lenses of black chert.*

ORDOVICIAN AND SILURIAN

OSs — *Sandstone and conglomerate: Grey to buff quartz arenite to quartz-pebble conglomerate and conglomeratic sandstone; clasts subround to round; subordinate beds up to 2 m thick of bioturbated, slightly dolomitic, very fine-grained sandstone and siltstone.*

ORDOVICIAN

OSu — *SUNBLOOD FORMATION: Light brownish-grey- to buff-weathering, mottled, light to dark grey dolostone and limestone; finely to medium crystalline; commonly bioturbated.*

Oc — *Siltstone and carbonate: Tan to off-white, laminated dolomitic siltstone; medium to dark grey, medium crystalline limestone; tan-weathering dolostone.*

CAMBRIAN

Cs — *Sandstone and siltstone: Greyish-red, laminated siltstone to argillite interbedded with greyish-red to white, very fine-grained, massive to locally cross-bedded sandstone; locally calcareous or dolomitic; local interbeds of quartz-sandstone-clast conglomerate.*

PROTEROZOIC OR EARLY CAMBRIAN

PCs — *Sandstone: White to light grey or greenish-grey, very fine- to medium-grained quartz arenite to quartzite; massive to laminated to ripple cross-laminated; interbeds of dark grey to black, laminated siltstone.*

MAP SYMBOLS

- *Geological boundary (approximate, assumed)*
- *Nomenclature change*
- *Outcrop stations*
- *Outcrop; remote observation*
- *Bedding (inclined, vertical, estimated from helicopter);*
- *Crossbedding (dip direction and dip; uncorrected)*
- *Joints*
- *Anticline (approximate)*
- *Syncline (approximate)*
- *Fault, thrust (approximate, assumed) (symbol on hangingwall side)*
- *Fault, normal (approximate) (symbol on hangingwall side)*
- *Fault, unknown type (approximate, assumed) (U, D on upthrown and downthrown sides where known)*
- *Hot spring*
- *Mineral occurence (with locality number)*

MINERAL LOCALITIES

LOCALITY #	NAME	ELEMENT	LATITUDE	LONGITUDE	REFERENCE
024	PYRO	Ba (Pb,Zn)	60°03'27"N	125°37'07"W	Yukon MINFILE (2002)
032	CROW	unknown	60°01'29"N	125°32'19"W	Yukon MINFILE (2002)

NOTES:

1. "Beaver River map unit" is an informal designator for a succession of carbonate strata best exposed to the north along Beaver River in Pool Creek map area (NTS 95C/5) and designated Dmd by Pigage and Allen (2001).

2. Certain map units along the northern and eastern edges of this map sheet have been projected from adjacent map sheets. Wherever possible, the position of these map units within this map sheet has been constrained using vertical air photographs.

References:

1. *Deklerk, R., (compiler) 2002: Yukon MINFILE 2002 - A database of mineral occurrences; Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada.*
2. *Douglas, R.J.W., (compiler) 1976: Geology, La Biche River, Yukon Territory - District of Mackenzie; Geological Survey of Canada, Map 1380A, scale 1:250 000.*
3. *Pigage, L.C., and Allen, T.L., 2001: Geological map of Pool Creek (NTS 95C/5), southeastern Yukon, 1:50 000 scale; Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Open File 2001-32.*
4. *Gabrielse, H., and Blusson, S.L., 1969: Geology, Coal River, Yukon Territory - District of Mackenzie; Geological Survey of Canada, Map 11-1968 (Paper 68-38), scale 1:253 440.*
5. *Taylor, G.C., and Stott, D.F., (compilers) 1999: Geology, Toad River, British Columbia; Geological Survey of Canada, Map 1955A, scale 1:250 000.*

Compilation by R.B. MacNaughton and L.C. Pigage based on fieldwork and studies of vertical air photographs in 2001and 2002.

THIS MAP IS A PRODUCT OF THE CENTRAL FORELAND NATMAP PROJECT

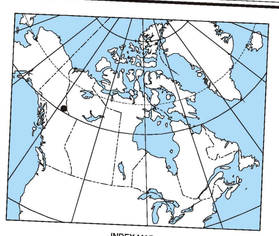
Geology from fieldwork in 2001 and 2002 by R.B. MacNaughton and L.C. Pigage, with contributions from A.K. Khudoley and I.R. Smith

Geological cartography by S. J. Hinds, K.M. Fallas, and M. Ponto

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

Base map at the same scale published Surveys and Mapping Branch in 1971
CONTOUR INTERVAL 100 FEET
Elevations in Feet above Mean Sea Level

Recommended citation:
MacNaughton, R.B. and Pigage, L.C.
2003: Geology, Larsen Lake (95C/4), Yukon Territory and British Columbia; Geological Survey of Canada, Open File 1797, scale 1:50 000.



NATMAP CARTNAT
Canada's National Geoscience Mapping Program
Le Programme national de cartographie géoscientifique du Canada

Canada

GEOLOGY

LARSEN LAKE (95C/4)

YUKON TERRITORY AND BRITISH COLUMBIA

Scale 1:50 000 Échelle 1/50 000

Kilometres 1 0 1 2 3 Kilomètres

Universal Transverse Mercator Projection
North American Datum 1983
© Her Majesty the Queen in Right of Canada 2003

Projection transverse universelle de Mercator
Système de référence géodésique nord-américain, 1983
© Sa Majesté la Reine du chef du Canada 2003

OPEN FILE
DOSSIER PUBLIC
1797
GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
2003

Open files are products that have not gone through the GSC formal publication process.

Les dossiers publics sont des produits qui n'ont pas été soumis au processus officiel de publication de la CGC.

95D/08 no title	95C/05 Pool Creek YGP OF 2001-32	95C/06 Gold Pay Creek
95D/01 no title	95C/04 Larsen Lake GSC OF 1797	95C/03 Mooney Creek
94M/16 Smith River	94N/13 Thorpe Creek	94N/14 Beavercrow Mountain

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS