

Coloured legend blocks indicate units that appear on this map

QUATERNARY

SURFICIAL DEPOSITS

POST LAST GLACIATION

- O** ORGANIC DEPOSITS: organic matter; >1 m thick; formed by the accumulation of vegetation in poorly drained depressions (swamps and bogs); usually forms flat terrain
- Ca** COLLUVIAL DEPOSITS: block accumulations and mass wasting debris; <50 m thick
Talus (scree): accumulations of blocks; commonly exceeding 2 m in diameter; as much as 50 m thick; forming aprons and fans below cliffs
- Cpd** Debris slump deposits: unconsolidated material; generally small blocks or more localized masses; but may include larger masses (>10 m thick) where associated with thick illite glaucofane or glaucofane deposits; internal structure of material may be retained; commonly traceable up slope to active scarps; where sufficient moisture is present the slump can become a debris flow, producing characteristic levees along its lateral margins and a spatulate form at the base of slope
- Cpr** Bedrock slump deposits: large rotational blocks in bedrock; shallow to 10's of metres thick; internal structure of material may be retained; commonly traceable up slope to active scarps; where sufficient moisture is present the slump may produce a flow at its base, forming a characteristic spatulate form; prominent in areas underlain by shale, siltstone and sandstone beds of Cretaceous Garbutt Fm. and Triassic Toad Fm.; associated with the largest mass movements in the region
- Csr** Rock slide deposits: chaotic landscape of irregular and stacked bedrock blocks; associated with moderately dipping, poorly indurated sandstone and shale-rich beds in the Matton Formation
- A** ALLUVIAL DEPOSITS: gravel, sand, and organic detritus; <1 m thick
Fluvial deposits: well sorted gravel and sand with detrital organic beds, including concentrations of logs; Ap, floodplain mantling valley floors; forming meander scars and point bars; Al, terraces along valley well sides
- Af** Alluvial fans: poorly sorted gravel and sand with organic detritus and buried soils; fans are commonly crossed by debris flow channels and levees and subject to shifting stream courses

- L** PROGLACIAL AND GLACIAL ENVIRONMENTS
GLACIOLACUSTRINE DEPOSITS: coarse to fine sand, silt and clay, with gravel debris flow layers and dropstones; deposited in glacier-dammed lakes, level topography; Lm, thin discontinuous veneers; <1 m thick; LL, forming terraces; commonly deeply dissected by postglacial erosion where thick
- G** GLACIOLIVIAL DEPOSITS: gravel, sand, minor sandy siltic; usually >1 m thick; deposited on, beneath, or in front of glacier margins
- Gdt** Proglacial outwash: Gdt, braided outwash delta terraces; Gf, fans; Gp, outwash plains mantling valley floors; Gt, level outwash terraces; Gk, kettle holes
- I** Ice contact stratified drift: deposited behind or at the ice margin; topography is undulating; irregular; or ridged; It, lateral kame terraces; Id, bedded outwash deltas; Id, delta terraces; If, fans; Ik, kettle holes; Ih, hummocky mounds/kame fields; or ice block distribution terrain; Il, eskers
- Tb** Till blanket: >2 m thick; forming undulating topography that obscures underlying bedrock structure; Th, hummocky topography
- Tv** Till veneer: <2 m thick and discontinuous; surface mimics underlying bedrock structure

- PRE-QUATERNARY**
- BEDROCK**
- R** Bedrock, undifferentiated

NOTE: Extensive and thick (>50 m) glacial Lake Beaver (unofficial name) sediment in the central part of the map area are capped by ~10 m of glacioluvial lag deposits. In these areas, the surficial cover is coloured according to the overlying glacioluvial deposits, and labelled as **Ll** to indicate the presence of the underlying thick glaciolacustrine sediment.

MAP SYMBOLS

- Geological boundary
- Slump scarp
- Terrace scarp
- Moraine
- Esker (direction of flow known or assumed)
- Steeze (glacial flow direction known, unknown; cross-cutting striae are numbered sequentially)
- Fluting or drumlinoid ridge parallel to ice flow (direction of flow known, unknown)
- Proglacial meltwater channel, abandoned or occupied by small underfit stream (wide, narrow with direction of flow inferred)
- Kettle hole
- Ground observation
- Drift geochemistry sample site
- Canadian Shield erratic

Coal River	950E	950N	950E	950N
	950E	950N	950E	950N
Rabbit River	950E	950N	950E	950N
	950E	950N	950E	950N

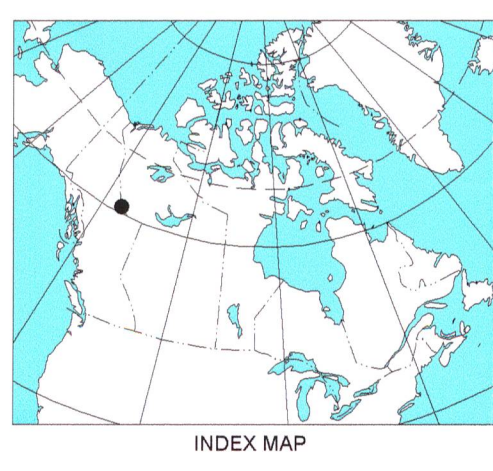
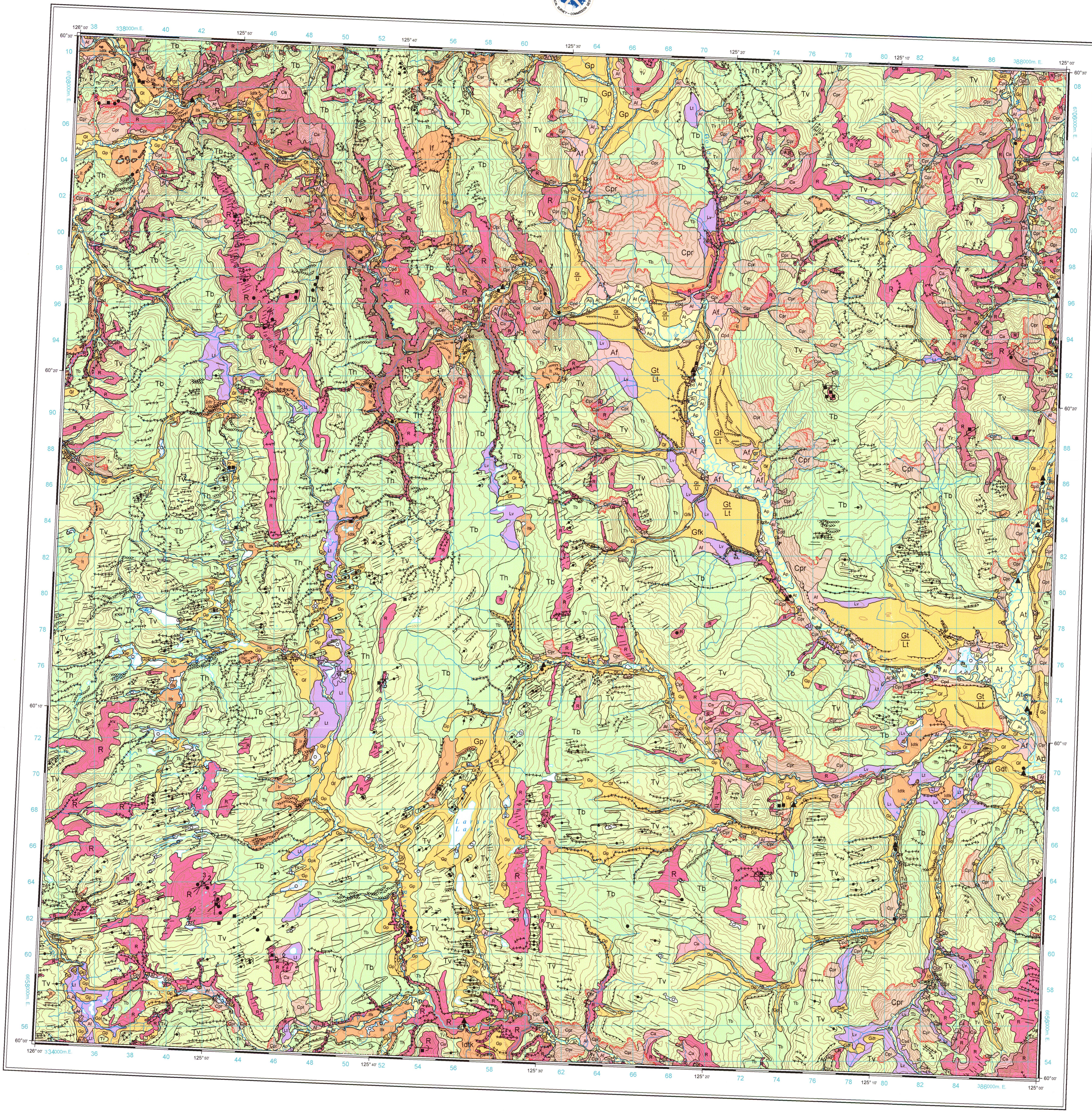
NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADDITIONAL GEOLOGICAL SURVEY OF CANADA MAPS

REFERENCES
Fallas, K.M., Pigeau, L.C. and MacNaughton, R.B. (compilers)
2004. Geology, southwest La Biche River (95C-SIV), Yukon Territory and British Columbia; Geological Survey of Canada, Open File 4684, 2 sheets, scale 1:100,000.

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OPEN FILE 4680
SURFICIAL GEOLOGY
LA BICHE RIVER (southwest)
YUKON TERRITORY - BRITISH COLUMBIA
Scale 1:100 000 / Échelle 1/100 000
CONTOUR INTERVAL 100 FEET
Elevations in Feet above Mean Sea Level

UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 10
Compilation by I.R. Smith based on fieldwork and studies of vertical air photographs 1999-2002.
THIS MAP IS A PRODUCT OF THE CENTRAL FORELAND NATMAP PROJECT
Surficial geology from field work by I.R. Smith 1999-2002.
Additional data from L. Pigeau, 2001-2002.
Digital cartography by Géotechnik and I.R. Smith.
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada.
Base map at 1:50 000 scale published by Surveys and Mapping Branch in 1971.