

**SURFICIAL GEOLOGY**

Unconsolidated surficial deposits.

Bedrock exposures; includes discontinuous veneer of undivided glacial drift.

**SYMBOLS**

Surficial deposit boundary . . . . .

Major meltwater channels, indicating direction of flow . . . . .

Drumlinoid form; direction of glacial movement inferred, not inferred . . . . .

**Sources of information:**

Hughes, D.L., Campbell, R.B., Muller, J.F., and Wheeler, J.O. (1968) Glacial Map of Yukon Territory, Geological Survey of Canada, Map 6-1968 (1:1,000,000 scale) to accompany GSC Paper 68-34.

Jackson, L.E. Jr. (1968) Terrain Inventory, Finlayson Lake, Yukon Territory (105 G), Geological Survey of Canada, Open File 1379, 1:125,000 scale.

Prest, V.K., Grant, D.R., and Rampton, V.N. (1967) Glacial Map of Canada, Geological Survey of Canada, Map 1253A, 1:5,000,000 scale.

Wheeler, J.O., Green, L.H., and Roddick, J.A. (1960) Geology - Finlayson Lake, Yukon Territory, Geological Survey of Canada, Map 8-1960, scale 1 inch to 4 miles.

Geological Survey of Canada  
Mineral Resources Division  
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**CONTRACTORS**

Stream sediment sample collection by Monaghan Delph Miller Limited, Don Mills, Ontario

Sample preparation by Golder Associates, Ottawa

Sediment chemical analyses by Bondar-Clegg and Company Ltd., Ottawa

Water and Au chemical analysis by Chemex Labs Limited, Vancouver

Geological base prepared by Terra Surveys Ltd., Ottawa

from published material supplied by Geological Survey of Canada

Copies of the Open File map material, element trend and symbol plots, listing of field observations, analytical data, descriptions of analytical methods, and digital data on IBM-PC compatible diskette are available by inquiring to:

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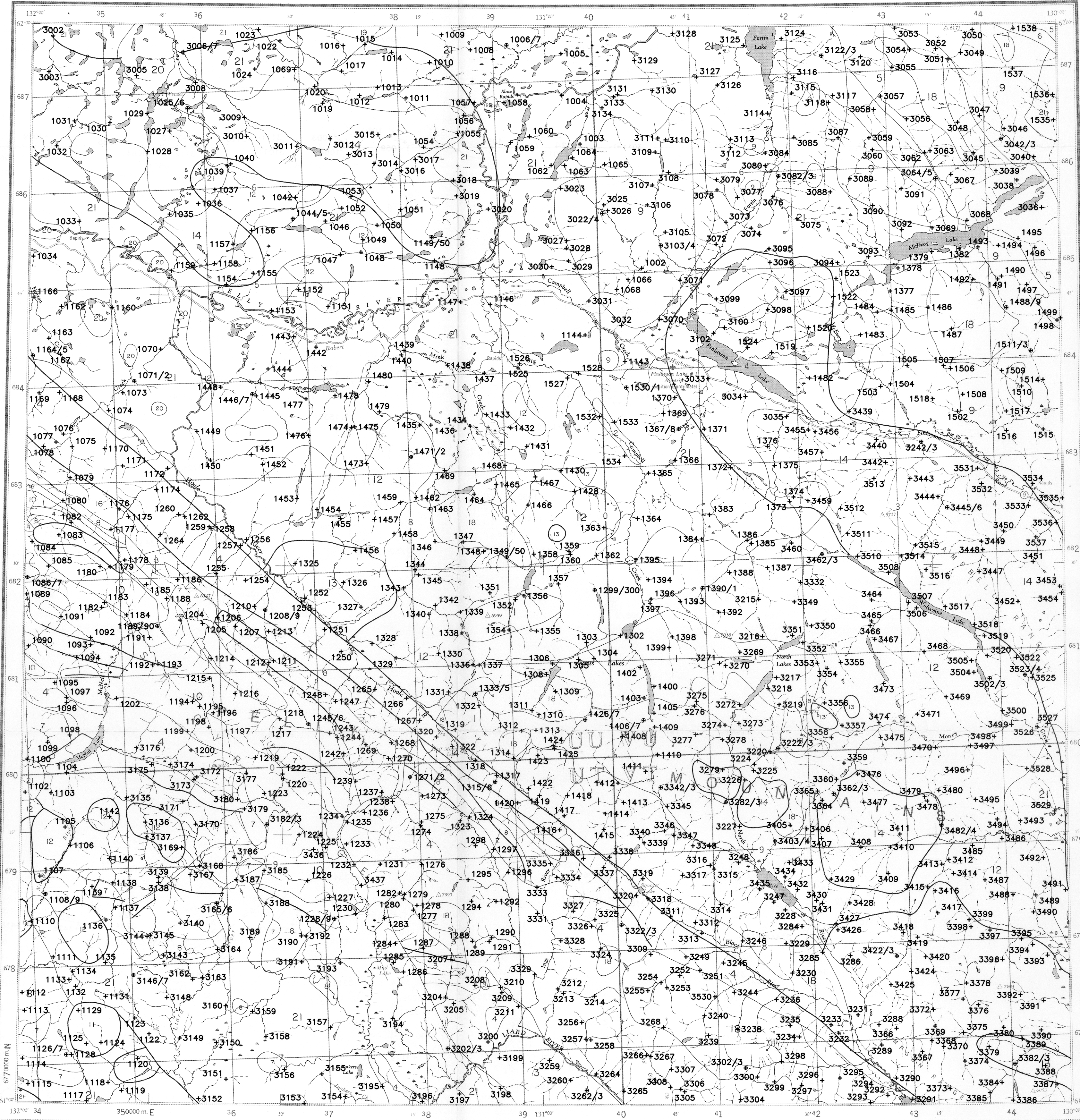
Contribution to Canada - Yukon Mineral Development Agreement 1985 - 1989, a subsidiary agreement under the Economic and Regional Development Agreement. Project funded by the Geological Survey of Canada.

Elevation in feet above mean sea level

Mean magnetic declination 1988, 30° 28' East, decreasing 12.4' annually. Readings vary from 29° 56' in the SW corner to 31° 01' in the NE corner of the map area.

Geological Survey of Canada  
Commission géologique du Canada

NTS 105G



**SAMPLE LOCATION**  
**STREAM SEDIMENTS**  
GSC OPEN FILE 1648  
EAST-CENTRAL YUKON, 1987

**LEGEND**

- QUATERNARY**
- PLEISTOCENE AND RECENT
- 21 Qs 64\* Glacial and surficial deposits
- TERTIARY**
- PLIOCENE
- 20 Pv 62 Basalt
- CRETACEOUS**
- 19 Kgp 52 Granodioritic and monzonitic porphyry
- 18 Kqm 52 Quartz monzonite, granodiorite; Cassiar quartz monzonite, alaskite
- TRIASSIC**
- 17 Tgd 42 Foliated hornblende granodiorite, quartz
- 16 Tcg 42 Polymictic conglomerate
- PENNSYLVANIAN AND PERMIAN**
- 15 PPAT 35 Chert
- CARBONIFEROUS AND PERMIAN**
- 14 CPV 35 ANVIL RANGE GROUP: andesite, basalt, slate, chert, limestone
- 13 CPub 35 Serpentinite, diorite, pyroxenite, peridotite
- 12 CPsn 35 Schist, gneiss; includes BIG SALMON METAMORPHIC COMPLEX
- 11 CPv 35 Andesite, basalt, chert, tuff
- MISSISSIPPIAN**
- 10 Mvp 31 Black slate, chert, acidic volcanics
- DEVONIAN AND MISSISSIPPIAN**
- 9 DME 29 EARL GROUP: undivided; shale, chert arenite, conglomerate
- 8 DMS 29 SYLVESTER GROUP: shale, chert arenite, basic volcanic rocks
- SILURIAN AND DEVONIAN**
- 7 SDcq 24 Dolomite, quartzite, argillite
- ORDOVICIAN, SILURIAN AND LOWER DEVONIAN**
- 6 OSDR 19 ROAD RIVER: black graptolitic shale, chert
- CAMBRIAN AND ORDOVICIAN**
- 5 CDp 14 Shale, limestone
- 4 COK 14 KECHIKA GROUP: phyllite, limestone
- LOWER CAMBRIAN**
- 3 TCA 11 ATAN GROUP: quartzite, shale, phyllite
- 2 TcQ 11 Quartzite, shale
- HADRYNIAN**
- 1 Hsn 07 Schist, gneiss, quartzite

\*A mnemonic code assigned to rock types and recorded as part of field observations.

- Geological boundary . . . . .
- Fault . . . . .
- No analytical results . . . . .
- Field duplicate sample sites . . . . .

Geology base and legend are derived from:

Gabrielse, H., Tempelman-Kluit, D.J., Blusson, S.L. and Campbell, R.B. (1980) Map 1398A, MacMillan River, Yukon - District of Mackenzie - Alaska, NTS Sheet 105, Geological Survey of Canada, Energy, Mines and Resources Canada. 1:1,000,000 Scale.

NTS 105G

**SAMPLE LOCATION**  
**STREAM SEDIMENTS**  
GSC OPEN FILE 1648  
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 113-87  
**CANADA - YUKON**  
**MINERAL DEVELOPMENT AGREEMENT (1985 - 1989)**

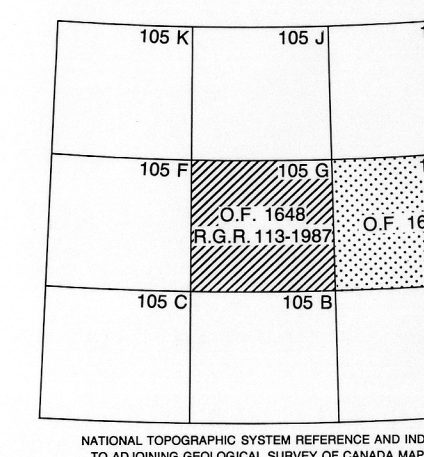
STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY  
EAST-CENTRAL YUKON, 1987

Scale 1:50 000 - Echelle 1/50 000

Kilometres 0 1 2 3 4 Kilometres

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**STREAM SEDIMENTS**  
GSC OPEN FILE 1648  
EAST-CENTRAL YUKON, 1987

Contribution to the Canada/Yukon Subsidiary Agreement on Mineral Resources 1985-1989 under the Canada/Yukon Economic Development Agreement

Contribution à l'Entente auxiliaire Canada/Yukon sur l'exploitation minière 1985-89 dans le cadre de l'Entente Canada/Yukon sur le développement économique.



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