

- SURFICIAL GEOLOGY**
- Thermokarst depression developed on alluvial floodplain
 - Organic deposits mantling lacustrine floodplain of silt and clay, or less commonly, moraine or colluvial deposits
 - Undivided surficial deposits; includes alluvium, glacial till, glacioluvial and glaciolacustrine deposits, ice contact deposits, colluvium, volcanic ash, loess, and scattered bedrock exposures.
 - Glacial ice, snow, and firn veneer with seasonal bedrock exposures.
 - Bedrock exposures; includes discontinuous veneer of undivided glacial drift, local alpine glaciation features.

- Symbols**
- Surficial deposit boundary
 - Major meltwater channels, outwash deposits, indicating direction of flow
 - Glacial lineation parallel to ice flow direction, includes fluting, crag and tail, roches moutonnées and drumlinoid forms, direction of flow indicated
 - Drumlinoid form; rock drumlin, crag and tail, fluted bedrock or till, direction of movement inferred, not inferred
 - Esker, direction of flow indicated

Sources of information:
 Hughes, D.L., Campbell, R.B., Muller, J.E., 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.
 Muller, J.E. (1966) Geology Klunene Lake - Yukon Territory, Geological Survey of Canada Map 1177A, (1:253 440 scale), to accompany GSC Memoir 340.
 Prest, V.K., Grant, D., and Rampton, V.N. (1967) Glacial Map of Canada, Geological Survey of Canada, Map 7-1978, 1:100 000 scale.
 Rampton, V.N. (1977) Surficial Geology and Geomorphology, Burwash Creek - Yukon Territory, Geological Survey of Canada, Map 6-1978, 1:100 000 scale.
 Surficial Geology and Geomorphology, Genero River - Yukon Territory, Geological Survey of Canada, Map 7-1978, 1:100 000 scale.
 Surficial Geology and Geomorphology, Congdon Creek - Yukon Territory, Geological Survey of Canada, Map 8-1978, 1:100 000 scale.

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Sample collection by Monaghan Delph Miller Limited, Don Mills, Ontario
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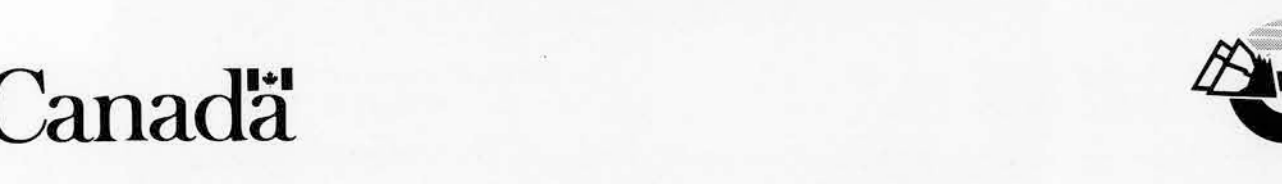
Au analyses by Chemex Labs Limited, Vancouver
 Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

Copies of map material and listings of field observations, analytical data and methods, from which the open file was prepared, are available from:

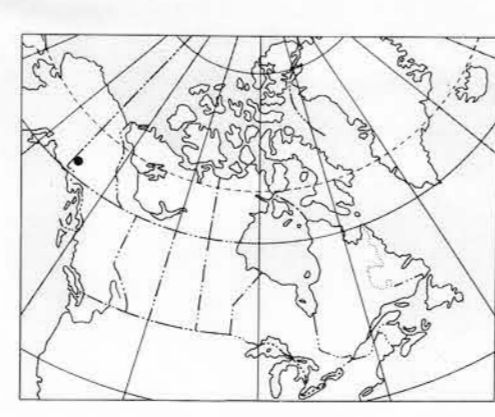
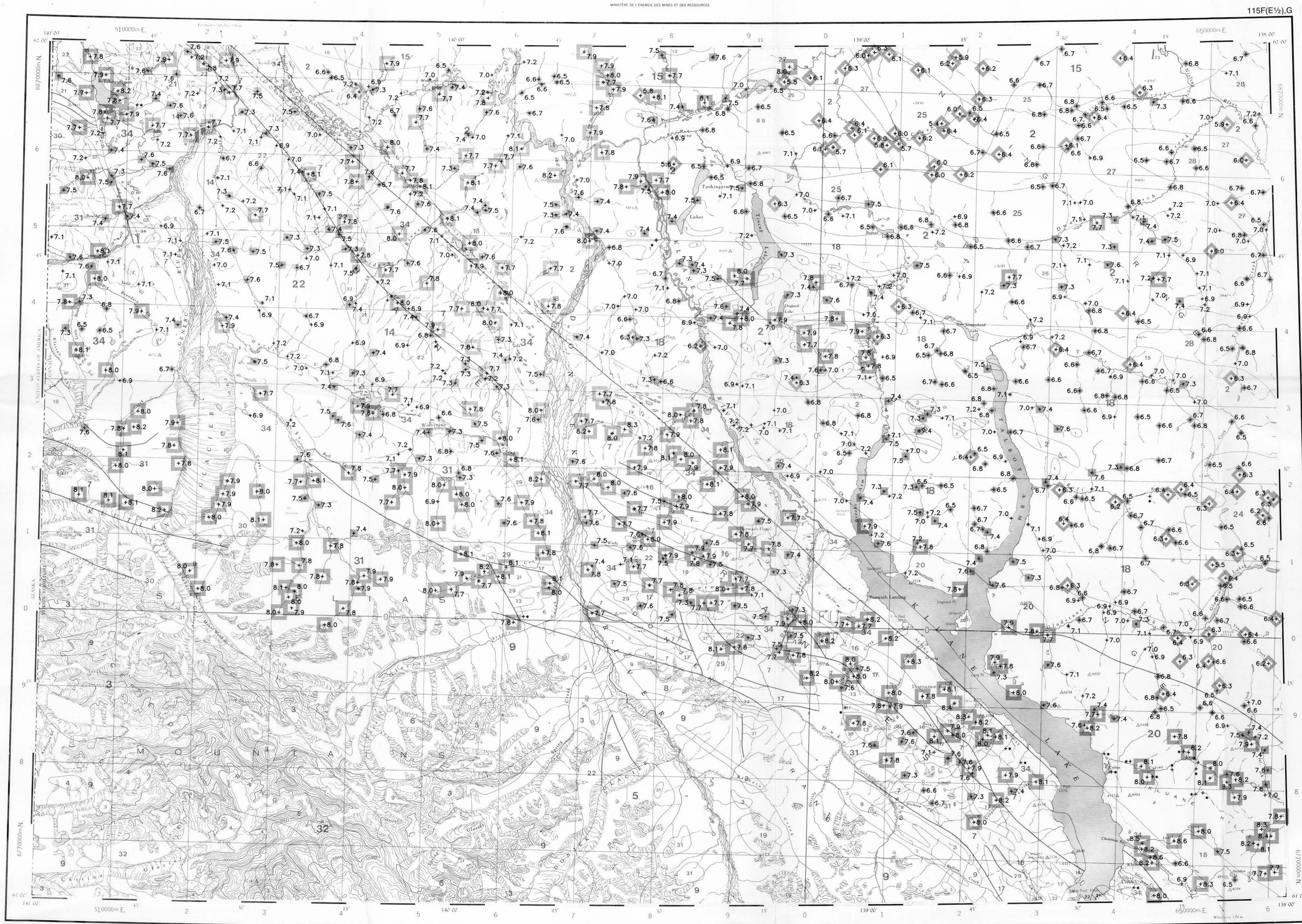
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Digital data are available on IBM-PC compatible diskette from:

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



Elevation in feet above mean sea level

Mean magnetic declination 1987, 28°52' East, decreasing 13.3' annually. Readings vary from 28°52'E in the SE corner to 28°46'E in the NW corner of the map area

pH
 STREAM WATERS
 GSC OPEN FILE 1362
 REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 98-1986
 CANADA - YUKON
 SUBSIDIARY AGREEMENT ON MINERAL RESOURCES (1985-1989)
 STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
 SOUTH-WEST YUKON, 1986
 Scale 1:250 000 - Échelle 1/250 000

Universal Transverse Mercator Projection
 Projection Transversale Universelle de Mercator
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Base map at the same scale published by the Surveys and Mapping Branch in 1961



- LEGEND**
- QUATERNARY**
- 34 Q5 64* Glacial and surficial deposits
- TERTIARY**
- 33 TQM 57 Quartz monzonite, granodiorite
 - 32 TGD 57 Quartz diorite, granodiorite
- MIOCENE AND PLEISTOCENE**
- 31 MPV 62 WRANGELL: Basalt, andesite pyroclastics, sediments
- LATE TERTIARY**
- 30 LTF 62 Felsite, granite porphyry
- OLIGOCENE AND MIOCENE**
- 29 OMA 61 AMPHITHEATRES: Sandstone, conglomerate, shale, coal
- LOWER (?) TERTIARY**
- 28 TFP 58 Feldspar porphyry dykes, flows
 - 27 TAD 58 Andesite, porphyritic basalt flows, dykes
- EARLY TERTIARY**
- 26 ETG 57 Granodiorite, granite
 - 25 ETGA 57 Alaskite, granite, quartz monzonite
 - 24 ETM 57 Granite, quartz monzonite
 - 23 FPP 57 Feldspar porphyry dykes
- CRETACEOUS**
- 22 KGM 52 Granodiorite, quartz diorite, diorite, agmatite complex
- JURASSIC AND CRETACEOUS**
- DETRITIC GROUP**
- 21 JKD 51 Argillite, greywacke, conglomerate, volcanics
 - 20 JKL 51 KLUNENE: Serpentine, biotitic schist, gneiss, amphibolite
 - 19 JKG 51 Granodiorite, quartz diorite, quartz monzonite, diorite
- TRASSIC**
- 18 TGD 42 RUBY RANGE: Granodiorite
- UPPER TRIASSIC**
- 17 UTS 45 CHITISSONE, MCCARTHY: Limestone, dolomite, shale
 - 16 UNT 45 NIKOLAI: Greenstone, basalt, andesite, limestone
- MESOZOIC UNDIVIDED**
- 15 MGD 41 Granodiorite, quartz monzonite
- PERMIAN AND TRIASSIC**
- 14 PIV 40 Greenstone, diorite
 - 13 PTU 40 Pyroxenite, serpentinite
- PALEOZOIC AND MESOZOIC UNDIVIDED**
- 12 PMW 40 Basic to intermediate volcanic rocks
- PALEOZOIC UNDIVIDED**
- 11 PN 09 NASTINA: Graphitic quartzite, schist
 - 10 PTP 09 Chert, argillite, quartzite
 - 9 PS 09 Greywacke, argillite, limestone; local basalt, andesite, volcaniclastic sediments
- EARLY PALEOZOIC**
- 8 EPUB 09 Gabro complex
- PERMIAN**
- SKOLAI GROUP**
- 7 PS 36 Andesite, basalt, ultramafics, pyroclastics, phyllite, chert, limestones, conglomerate
- PENNSYLVANIAN AND PERMIAN**
- 6 PPM 35 Quartz monzonite
 - 5 PPG 35 Granodiorite, diorite, agmatite complex
 - 4 PPD 35 Quartz diorite, diorite, granodiorite
- DEVONIAN**
- 3 DC 25 Limestone, marble
- HABRYNIAN AND CAMBRIAN**
- 2 HCSM 08 Schist, gneiss, quartzite
- HABRYNIAN**
- 1 HC 07 Crystalline limestone

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

Geological boundary
 Fault
 No analytical result
 Field duplicate sample sites

Geological base and legend are derived from: Gabrielle, R., Tompa-Man-Cluit, D., & Blusson, S.L. and Campbell, R.B. (1980) Map 1398A, MacMillan River, Yukon - District of Mackenzie - Alaska, MTS Sheet 105, 115, Geological Survey of Canada, Energy, Mines and Resources Canada, 1:1,000,000 Scale.