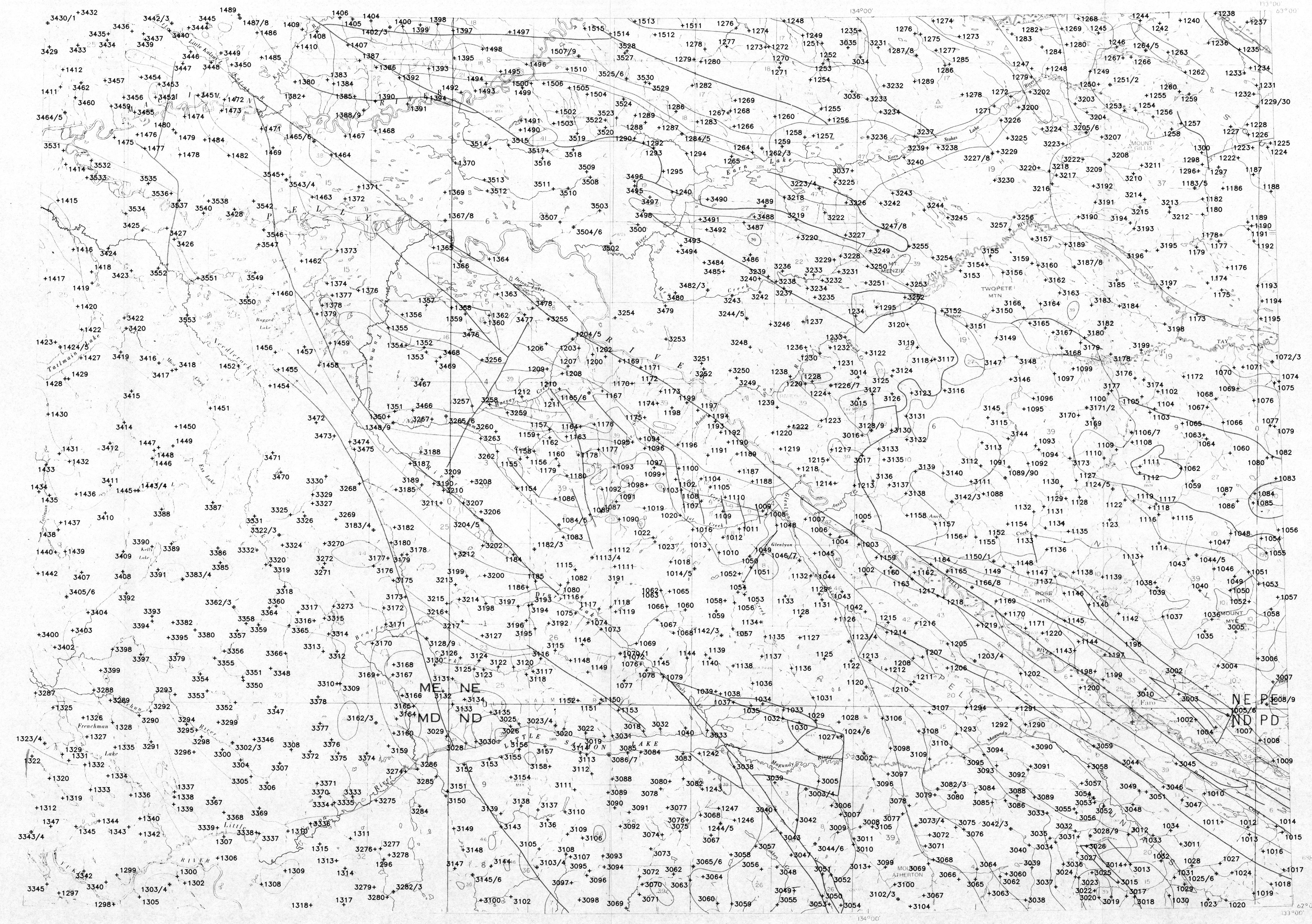


Energy, Mines and Resources Canada / Énergie, Mines et Ressources Canada



NTS 105L, 105K (W3)

LEGEND

SURFICIAL GEOLOGY

Q Undivided surficial deposits, includes unconsolidated gravels, sands, silt, alluvium, colluvium, till, glacioluvial deposits, kames, eskers and outwash deposits

R Bedrock; includes discontinuous veneer of undivided glacial drift

SYMBOLS

Surficial deposit boundary

Limit of ice advance

Major meltwater channels, indicating direction of flow

Drumlinoid form; direction of glacial movement inferred, not inferred

Sources of information:

Cockfield, W.E. (1935) Laberge Sheet - Yukon Territory, Geological Survey of Canada Map 372A, Scale 1: 253,440

Hughes, O.L., Campbell, R.B., Muller, J.E., and Wheeler, J.O. (1969) Glacial Map of Yukon Territory - South of 65 degrees north latitude; Geological Survey of Canada Map 6-1968; Scale 1: 1,000,000

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

- QUATERNARY**
- PLEISTOCENE AND RECENT
- 47* Qs 64** glacial and surficial deposits
- TERTIARY**
- PLIOCENE
- 46 Pv 62 basalt
- LATE TERTIARY
- 45 Ltq 62 rhyolite porphyry, granite, granodiorite
- EARLY TERTIARY
- 44 Etf 57 granite and syenite porphyry
- LOWER TERTIARY
- 43 Lts 58 conglomerate, sandstone, and shale
- 42 Tfp 58 feldspar porphyry dykes and flows
- 41 Tfr 58 rhyolite, quartz feldspar porphyry
- CRETACEOUS**
- 40 Ky 52 syenite, monzonite
- 39 Kqm 52 quartz monzonite, granodiorite; CASSIAR quartz monzonite, alkasite
- 38 Kgd 52 granodiorite and monzonite porphyry
- Jkd1 51 diorite, hornblende diorite
- 37 Ksf 52 SOUTH FORK: andesite, dacite, basalt
- JURASSIC AND CRETACEOUS**
- 36 Jkt 51 TANTALUS: conglomerate, siltstone, arkose, coal
- JURASSIC**
- 35 Jll 47 LABERGE GROUP: greywacke, arkose, conglomerate
- TRIASSIC**
- 34 Tcg 42 polymictic conglomerate
- 33 Ts 42 sandstone, siltstone
- 32 Tv 42 basaltic greenstone
- UPPER TRIASSIC
- 31 utzl 45 LEWES RIVER GROUP: greywacke, argillite, conglomerate
- utc 45 LEWES RIVER GROUP: limestone
- MESOZOIC**
- 30 Mgdn 41 foliated hornblende granodiorite, quartz monzonite
- PENNSYLVANIAN AND PERMIAN**
- 29 PpAc 35 ANVIL RANGE GROUP: limestone
- 28 PpAt 35 ANVIL RANGE GROUP: chert
- CARBONIFEROUS AND PERMIAN**
- 27 Cpv 35 ANVIL RANGE GROUP: andesite, basalt, slate, chert, limestone
- 26 Cpv 35 andesite, basalt, chert, tuff
- 25 Cpn 35 schist, gneiss, includes BIG SALMON METAMORPHIC COMPLEX
- PALEOZOIC AND MESOZOIC**
- 24 Ptb 40 pyroxenite, serpentinite
- Pmub 40 ultramafic rocks
- Cpb 35 serpentinite, diorite, pyroxenite, peridotite
- CARBONIFEROUS**
- 23 Cc 30 limestone
- MISSISSIPPIAN**
- 22 Meu 34 EARN GROUP (upper): chert, argillite, quartzite, limestone
- 21 Mk 34 KALZAS: limestone, argillite, chert

- DEVONIAN AND MISSISSIPPIAN**
- 20 Dms 29 SYLVESTER GROUP: shale, chert arenite, conglomerate, basic volcanic rocks
- 19 Dme 29 EARN GROUP: undivided; shale, chert arenite, conglomerate
- 18 Dmcp 29 CRYSTAL PEAKS: chert pebble conglomerate
- DEVONIAN**
- 17 Del 25 EARN GROUP (lower): slate, quartzite, limestone
- SILURIAN AND DEVONIAN**
- 16 SdaC 24 ASKIN GROUP: dolomite, limestone
- 15 SdaQ 24 ASKIN GROUP: quartzite, shale
- 14 Sdcq 24 dolomite, quartzite, argillite
- ORDOVICIAN, SILURIAN, AND LOWER DEVONIAN**
- 13 OdbR 19 ROAD RIVER: black graptolitic shale, chert
- CAMBRIAN AND ORDOVICIAN**
- 12 Coh 14 HARVEY GROUP: shale, phyllite
- 11 Cok 14 KECHIKA GROUP: phyllite, limestone
- 10 Cop 14 shale, limestone
- LOWER CAMBRIAN
- 9 LchC 11 HARVEY GROUP: limestone
- 8 LchQ 11 HARVEY GROUP: quartzite, schist
- PALEOZOIC AND MESOZOIC**
- 7 Ptc 40 limestone
- Pc 09 limestone
- 6 Pv 09 greenstone, amphibolite
- PALEOZOIC**
- 5 PgdN 09 PELLY GNEISS: foliated to gneissic granodiorite
- HADRYNIAN AND CAMBRIAN**
- 4 Hcsn 08 schist, gneiss, quartzite
- HADRYNIAN**
- 3 Hc 07 crystalline limestone
- 2 Hgp 07 gritty quartzite, argillite, shale, phyllite (may include lower Cambrian)
- 1 Hp 07 shale, phyllite

* Map unit number for rock type

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

SYMBOLS

Geological boundary

Fault

No analytical results

Field duplicate site

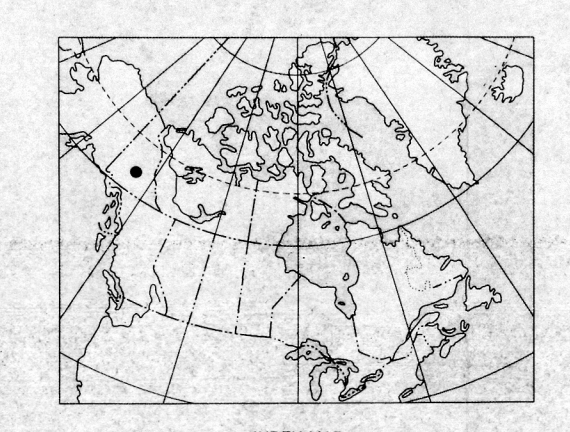
Geology base and legend are derived from: Gabrielse, H., Tempelman-Kluit, D.J., Blusson, S.L., and Campbell, R.B. (1980) Map 1398A, MacMillan River, Yukon - District of Mackenzie - Alaska, NTS Map area 105, Geological Survey of Canada: Energy, Mines and Resources Canada, Scale 1:1,000,000

Elevation in feet above mean sea level

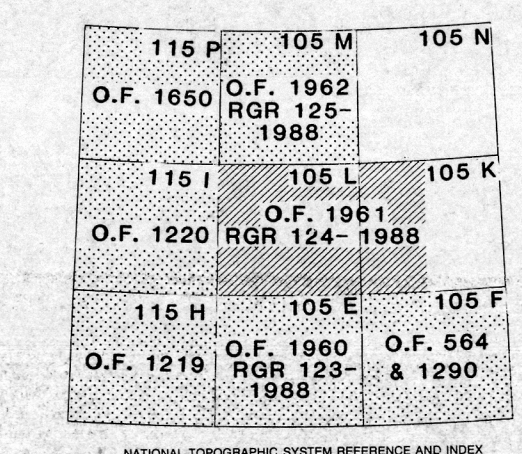
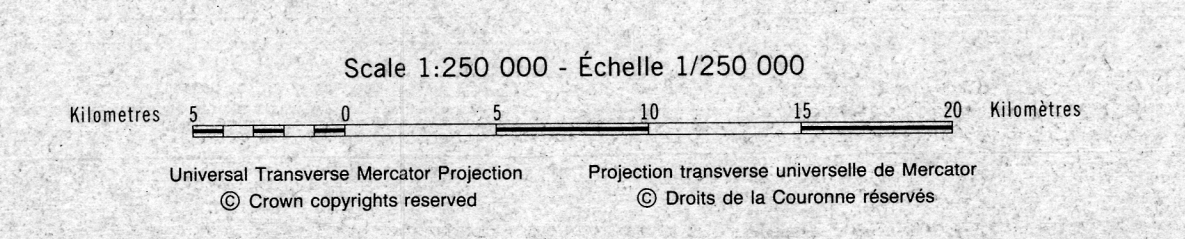
Magnetic declination at the center of the map area (62°30'N; 134°30'E) in 1989 is 30°29'E decreasing 12.2' annually. Magnetic declination ranges from 29°47'E, decreasing 11.6' annually, in the southwest corner of the map area, to 31°12'E, decreasing 12.9' annually, in the northeast corner of the map area.

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.



**SAMPLE LOCATION
STREAM SEDIMENTS**
GSC OPEN FILE 1961
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 124-88
CANADA - YUKON
MINERAL DEVELOPMENT AGREEMENT (1985 - 1989)
STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
CENTRAL YUKON, 1988



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