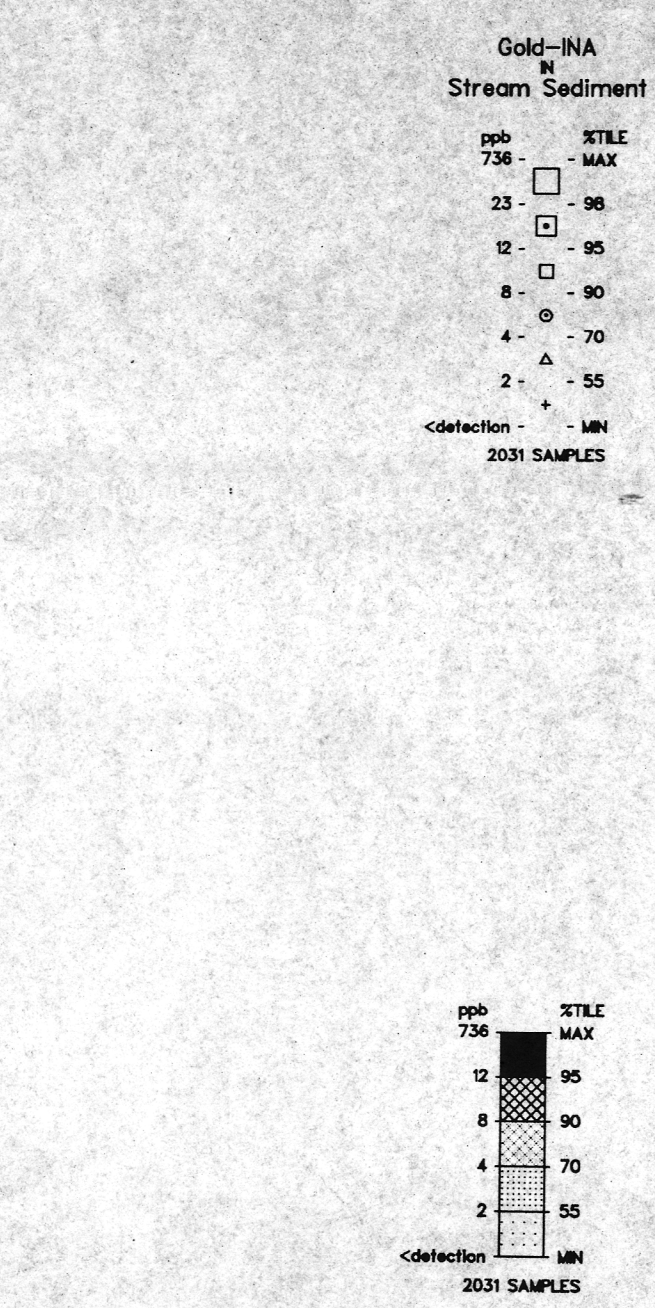


Energy, Mines et
Resources Canada
Energy, Mines and
Resources Canada

NTS 106D, Parts of 106C, 106E AND 106F

REGIONAL TREND MAP

KILOMETERS - SCALE 1:1 000 000



SURFICIAL GEOLOGY

OM Glacial moraine; mostly till, minor silt, sand and gravel
QC Fluvialite deposits; silt, sand and gravel
R Bedrock, mostly uncovered

SYMBOLS

Crag and tail forms
Esker
Meltwater channel showing direction of movement
Direction of ice flow

Sources of information:

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Vernon, P. and Hughes, O.L. 1965. Surficial Geology, Nash Creek, Yukon Territory, Geological Survey of Canada Map 1172A, Scale 1:253,440.

**GEOLOGICAL SURVEY OF CANADA
MINERAL RESOURCES DIVISION
EXPLORATION GEOCHEMISTRY SUBDIVISION**

CONTRACTORS

Collection: Stokes Exploration Management Ltd. Vancouver, British Columbia

Preparation: Golder Associates Ottawa, Ontario

Sediment Re-analysis (1989): Bondar-Clegg & Co. Ltd. Ottawa, Ontario

Sediment Analysis (1977): Chemex Labs Ltd. North Vancouver, British Columbia

Cartography: Les Services Cartographiques 2 + 1 inc. Gatineau, Quebec

Water Analysis (1977): Bondar-Clegg & Co. Ltd. Whitehorse, Yukon

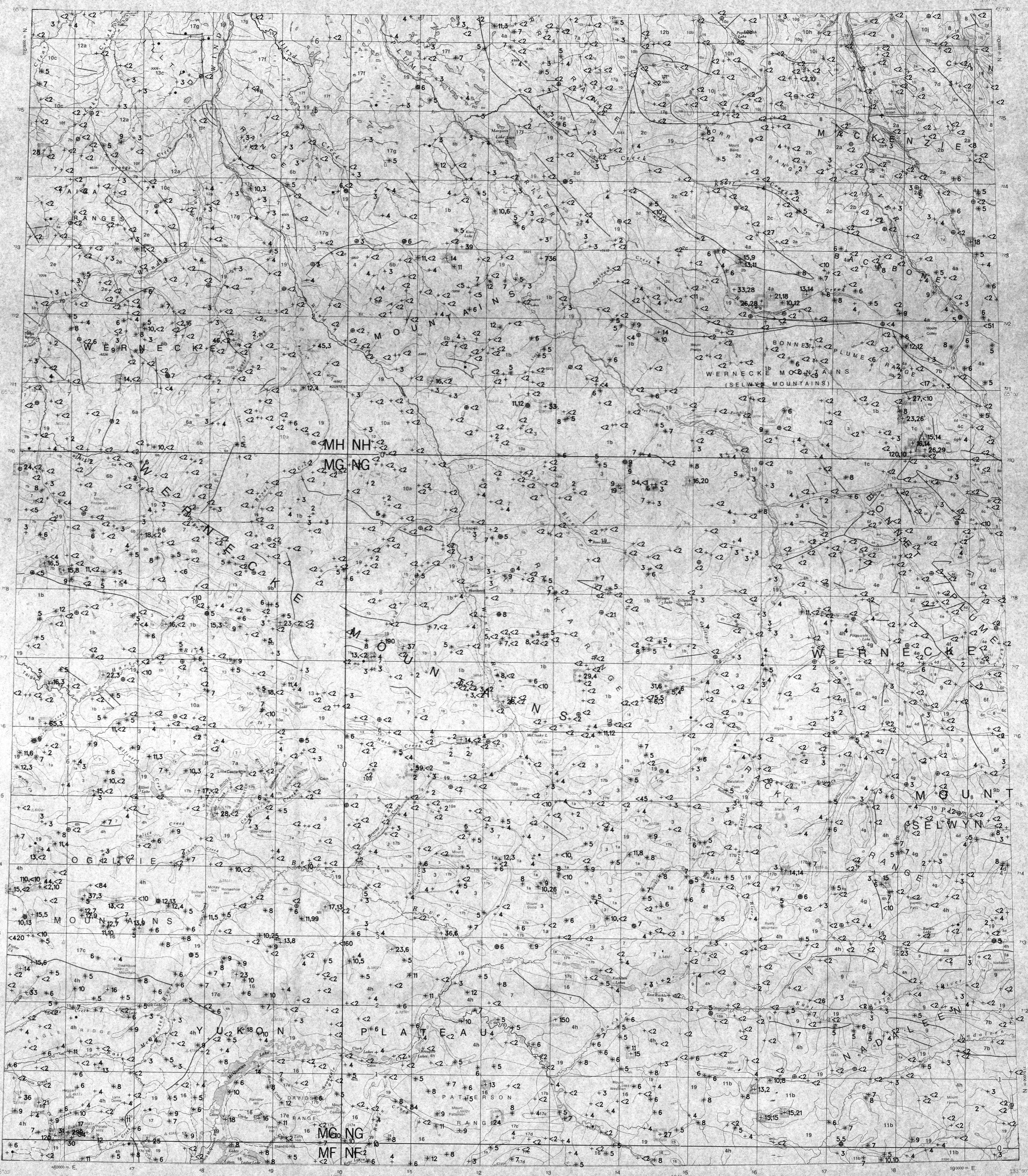
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Elevation in feet above mean sea level

Magnetic declination in 1990 for the central part of the map area (64°45'W; 134°30'E) is 2°17'W decreasing 12.1" annually. Magnetic declination ranges from 31°12'E decreasing 11.5" annually in the southwest corner of the map area, to 33°23'E decreasing 12.7" annually, in the northeast corner of the map area.

Contribution to the Canada/Yukon Economic Development Program 1989-1990.
Contribution au Programme Canada-Yukon sur le développement économique 1989-1990.



- LEGEND**
- QUATERNARY**
10 Unconsolidated glacial and alluvial deposits.
- TERTIARY**
18 Quartz porphyry
- CRETACEOUS**
17 Biotite granodiorite and quartz monzonite; 17a, hornblende/biotite syenite; 17b, diorite and gabbro; 17c, Keno Hill Quartzite; massive quartzite, minor slate and phyllite; 17d, phyllitic quartzite, granitic and chlorite slate and phyllite; minor limestones; 17e, similar to 17c but may be older; 17f, Bonnet Plume Formation; sandstone, shale and coal; 17g, Bonnet Plume Formation; conglomerate and sandstone.
- JURASSIC**
16 Lower Schist Division: argillite, slate, phyllite and quartzite.
- TRIASSIC**
15 Black liny shale and limestone; 15a, quartzite and minor shale.
- PERMIAN**
14 Tahkandit Formation: chert, cherty limestone and limestone; 14a, limestone with some chert.
- CARBONIFEROUS TO PERMIAN**
13 Limestone, black shale, chert and chert-pebble conglomerate; 13a, dark shale, limestone, sandstone and minor chert-pebble conglomerate; 13b, shale, slate and minor limestone.
- CARBONIFEROUS**
12 Carbonates and clastics; 12a, Hart River Formation: shale, siltstone and limestone; 12b, shale; 12c, clastics and coal.
- DEVONIAN AND MISSISSIPPIAN**
11 Black shale, argillite, minor chert and chert-pebble conglomerate; 11a, Beza River Formation: black chert and siltstone; 11b, argillite, siltstone, phyllite and quartzite; 11c, black shale, argillite, slate, limestone, chert and chert-pebble conglomerate; 11d, Nation River Formation: chert-pebble conglomerate and chert-graft sandstone.
- DEVONIAN**
10 Grey, brown and black massive limestone; 10a, limestone and dolomite; 10b, shale; 10c, clastics; 10d, sandstone; 10e, shale; 10f, Canol Formation: black siliceous shale; 10g, Hume Formation: limestone, 10h, shale; 10i, Cranwick Formation: limestone; 10j, Arnicia Formation: dolomite.
- SILURIAN AND DEVONIAN**
9 Dolomite and minor limestone; 9a, undivided 9 and 8; 9b, Delorme Formation: dolomite and limestone; 9c, carbonates and clastics.
- ORDOVICIAN AND SILURIAN**
8 Mount Kindle Formation: massive, waxy and reefed dolomite.
- CAMBRIAN AND ORDOVICIAN**
7 Dolomite and limestone; 7a, dark volcanic rocks, tuff and argillite; 7b, Road River Formation: shale and chert; 7c, carbonate debris flows; 7d, Franklin Mountain Formation: dolomite and shale.
- CAMBRIAN**
6 Unnamed clastics; 6a, carbonates and clastics; 6b, limestone and bioherm; 6c, Sewil Formation: dolomite, limestone, shale and sandstone; 6d, Beckone Range Formation: quartzite, siltstone, conglomerate and dolomite; 6e, quartzite, siltstone and shale; 6f, psilottic dolomite and minor quartzite; 6g, dolomite, quartzite and shale; 6h, clastics and carbonates.
- HADRYAN AND (?) CAMBRIAN**
5 Sheepsh Formation: slate, siltstone, quartzite, conglomerate and limestone.
- HADRYANIAN**
4 Unnamed carbonates and clastics; 4a, Rapitan Group: mudstone, limestone, diamictite and iron formation; 4b, dolomite and quartzite; 4c, Rapitan Group undivided; 4d, dolomite; 4e, shale, siltstone, conglomerate and dolomite; 4f, dolomite, shale and sandstone; 4g, dolomite and limestone; 4h, "Brit Unit": slate, siltstone, sandstone and conglomerate; 4i, dolomite and limestone.
- HADRYANIAN AND HELIKIAN**
3 Orange-weathering dolomite, dark slate, phyllite and quartzite; 3a, pink-orange = and grey-weathering dolomite, shale, quartzite, conglomerate and limestone; 3b, buff and orange dolomite, shale and quartzite; 3c, grey dolomite, shale and quartzite; 3d, dolomite-boulder conglomerate; 3e, shale, argillite, siltstone and dolomite.
- HELIKIAN**
2 Carbonates, shale and gypsum; 2a, dolomite, shale and gypsum; 2b, dolomite and limestone; 2c, Lathrine Formation: sandstone and dolomite; 2d, Tsezotene Formation: sandstone and dolomite; 2e, clastics and carbonates.
- HELIKIAN AND (?) APHERIAN**
1 Dolomite; 1a, dark shale, siltstone and argillaceous dolomite; 1b, slate, phyllite, argillite, quartzite and limestone; 1c, argillite, limestone and minor biotite calc-silicate hornfels.

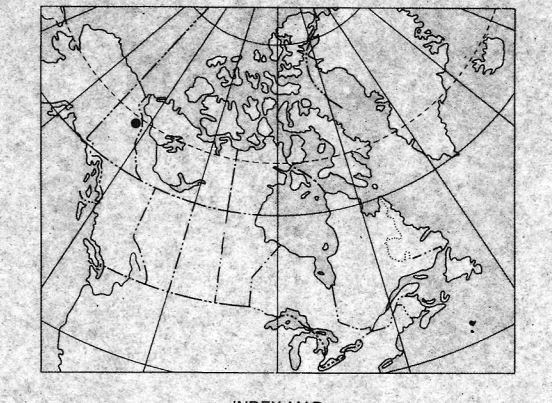
SYMBOLS

Geological boundary
Fault
No data
Single analysis
Repeat analysis
Single analysis, less than detection limit
Field duplicate site

Gold-INA Stream Sediment

ppb	STLE
736	MAX
23	98
12	95
8	90
4	70
< detection	MIN
2032 SAMPLES	

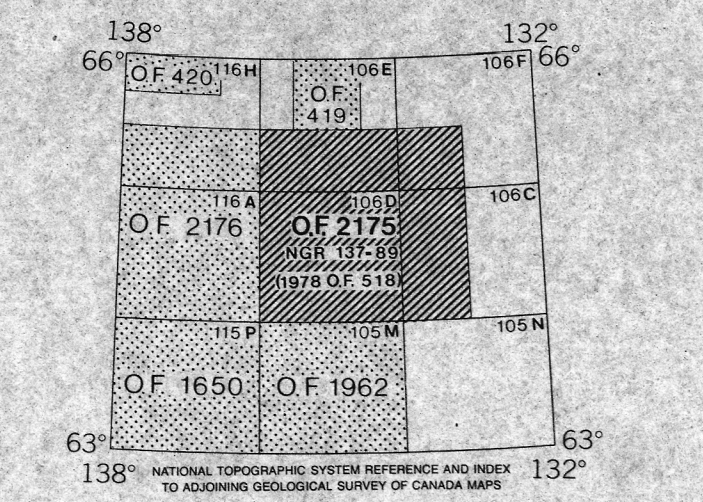
The legend modified and geology derived for this geochemical map from G.S.C. map 1282A, G.S.C. Open File 278 and Open File 205.



**GOLD (ppb)
STREAM SEDIMENTS**

GSC OPEN FILE 2175
NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 137-89
CANADA - YUKON
ECONOMIC DEVELOPMENT PROGRAM
(1989-1990)

STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
NORTH CENTRAL YUKON, 1989



Scale 1:250 000 - Échelle 1/250 000

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