GEOLOGICAL SURVEY OF CANADA — COMMISSION GÉOLOGIQUE DU CANADA

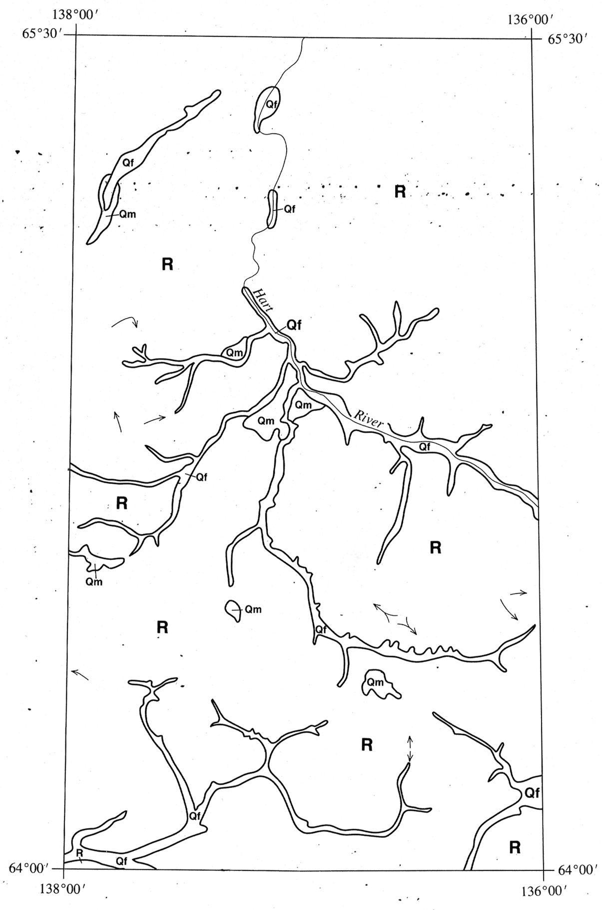
Energy, Mines and Resources Canada — Énergie, Mines et Ressources Canada

NTS 116A, Part of 116H

SAMPLE LOCATION STREAM SEDIMENTS

GSC OPEN FILE 2176

NORTH CENTRAL YUKON, 1989



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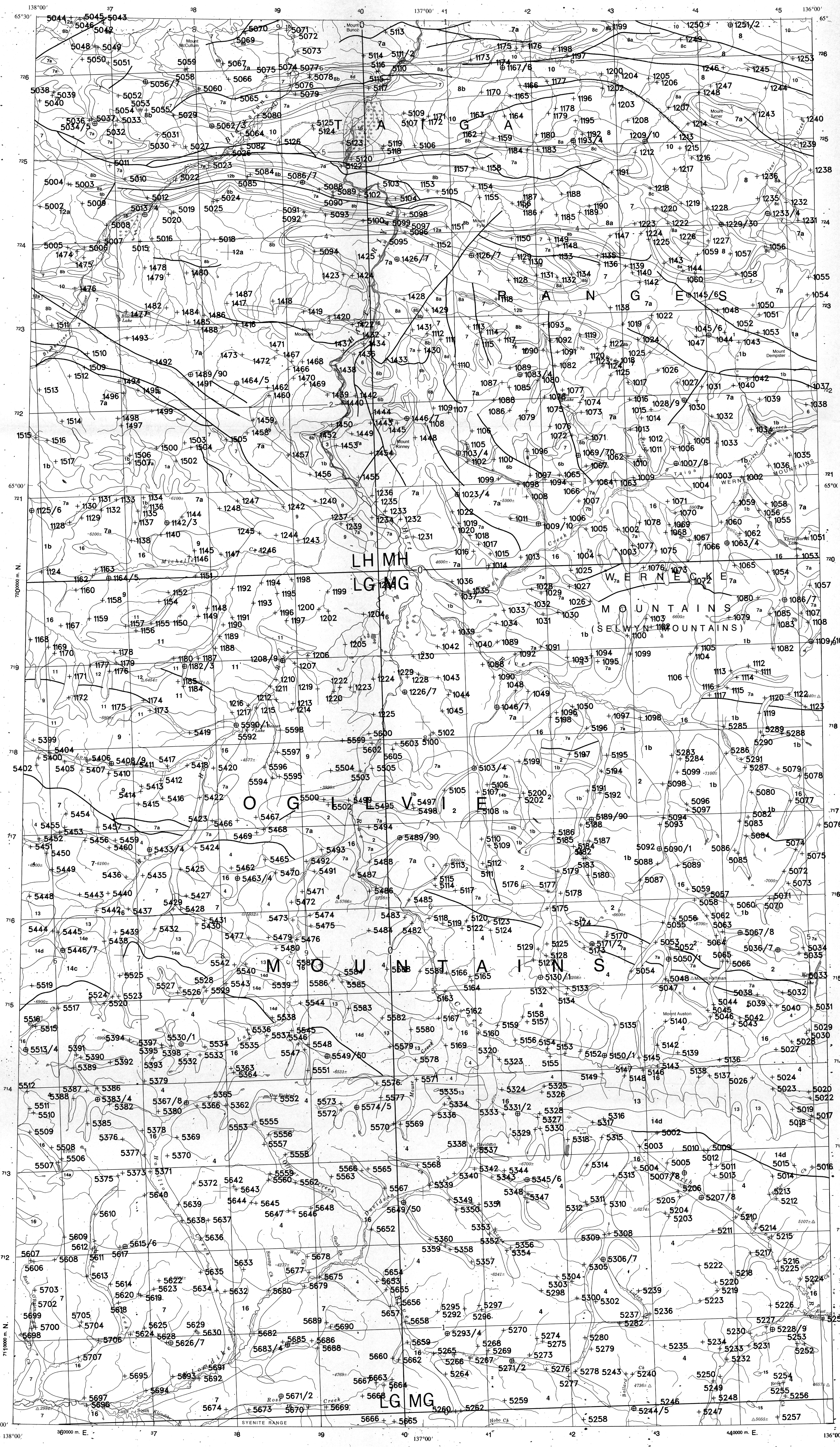
KILOMETERS - SCALE 1:1 000000



SURFICIAL GEOLOGY

Qm	Glacial moraine; mostly till, minor silt, sand and gravel
Qf	Fluviatile deposits; silt, sand and gravel
R	Bedrock, mostly uncovered

SYMBOLS

Direction of ice flow . . . .

Sources of information:

Hughes, O.L., Rampton, V.N., Bamber, E.W., Mountjoy, E.W., Norford, B.S., Norris, A.W., Norris, D.K., Price, R.A., Proctor, R.M. and Taylor, G.C. 1971. Surficial Geology, Northern Yukon Territory and Northwestern District of Mackenzie. Geological Survey of Canada, Map 1319A, Scale 1:500,000.

Vernon, P. and Hughes, O.L. 1965. Surficial Geology, Larsen Creek, Yukon Territory. Geological Survey of Canada Map 1171A, Scale 1:253,440.

GEOLOGICAL SURVEY OF CANADA
MINERAL RESOURCES DIVISION
EXPLORATION GEOCHEMISTRY SUBDIVISION

CONTRACTORS

Collection:	Stokes Exploration Management Ltd. Vancouver, British Columbia
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Yukon

Canada

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LEGEND

QUATERNARY

16	Unconsolidated glacial and alluvial deposits

TERTIARY

15	Quartz porphyry

CRETACEOUS

14	Biotite granodiorite and quartz monzonite; 14a, hornblende/biotite syenite and minor diorite; 14b, diorite and gabbro; 14c, green and maroon shale and brown siltstone; 14d, Keno Hill quartzite and minor shale and phyllite; 14e, quartzite, graphitic and chloritic slate and phyllite; minor limestone; 14f, similar to 14d but may be older.

JURASSIC

13	Lower Schist division: argillite, slate, phyllite and quartzite

PERMIAN

12	Tahkandit Formation: chert, cherty limestone and limestone; 12a, undivided clastics and carbonates; 12b, Jungle Creek Formation: shale

PERMIAN AND CARBONIFEROUS

11	Limestone, black shale, chert and chert-pebble conglomerate; 11a, dark shale, limestone, sandstone, minor conglomerate; 11b, shale, slate, minor limestone and sandstone.

CARBONIFEROUS

10	Hart River Formation: siltstone, shale and limestone.

DEVONIAN TO CARBONIFEROUS

9	Black shale, argillite, slate, limestone, chert, conglomerate and quartzite; 9a, Nation River Formation: chert-pebble conglomerate and sandstone.

DEVONIAN

8	Undivided clastics; 8a, Canol Formation: black siliceous shale; 8b, Ogilvie Formation: limestone, 8c, Cranswick Formation: limestone; 8d, Michelle Formation: limestone and shale.

CAMBRIAN, ORDOVICIAN AND SILURIAN

7	Road River Formation: shale and limestone; 7a, unnamed carbonates, 7b, dark volcanic rocks, tuff, argillite and limestone; 7c, carbonate debris flow.

CAMBRIAN

6	Unnamed clastics; 6a, unnamed carbonates and clastics; 6b, unnamed carbonates and clastics.

PRECAMBRIAN AND/OR LATER

5	Dark green volcanic rocks, breccia, tuff and agglomerate; minor shale, chert, siltstone and limestone; 5a, dark green volcanic rocks, breccia, tuff and agglomerate; 5b, dark green andesite.
4	Quartzite, sandstone, quartz-pebble conglomerate, shale and slate; quartz-chlorite schist, quartz-mica schist and phyllite; minor limestone and chert; 4a, limestone.

HELIKIAN

3	Unnamed carbonates, shale and gypsum.

HADRYNIAN AND HELIKIAN

2	Orange-weathering dolomite, slate, minor phyllite and quartzite; 2a, pink-, orange - and grey-weathering dolomite, shale, quartzite, conglomerate and limestone; 2b, buff and orange dolomite, slate, quartzite, limestone and conglomerate; 2c, grey dolomite, shale and quartzite; 2d, dolomite-boulder conglomerate; 2e, shale, argillite, siltstone and dolomite.

HELIKIAN AND (?) APHEBIAN

1	Unnamed orange dolomite; 1a, unnamed orange and grey dolomite; 1b, phyllitic argillites and quartzite; minor slate, dolomite and conglomerate.

SYMBOLS

Geological boundary ....

Fault..

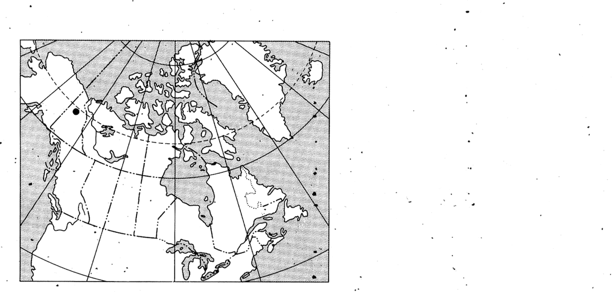
No data.. +*

Field duplicate site . . . . ⊕

The legend modified and geology derived for this geochemical map from G.S.C. map 1283A and Open File 279.

Elevation in feet above mean sea level

Magnetic declination in 1990 for the central part of the map area (64°45'N; 137°E) is 31°39'E decreasing 11.3' annually. Magnetic declination ranges from 30°42'E decreasing 10.9' annually in the southwest corner of the map area, to 32°40'E decreasing 11.8' annually, in the northeast corner of the map area.



INDEX MAP

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NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 138-89

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

Kilometres 5 0 5 10 15 20 Kilomètres

Universal Transverse Mercator Projection — Projection transverse universelle de Mercator

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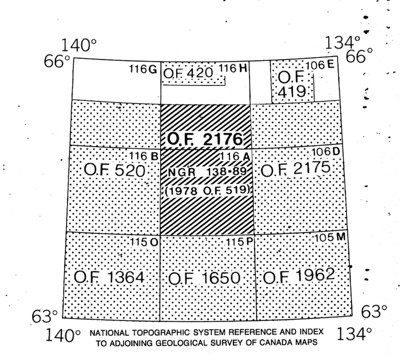

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