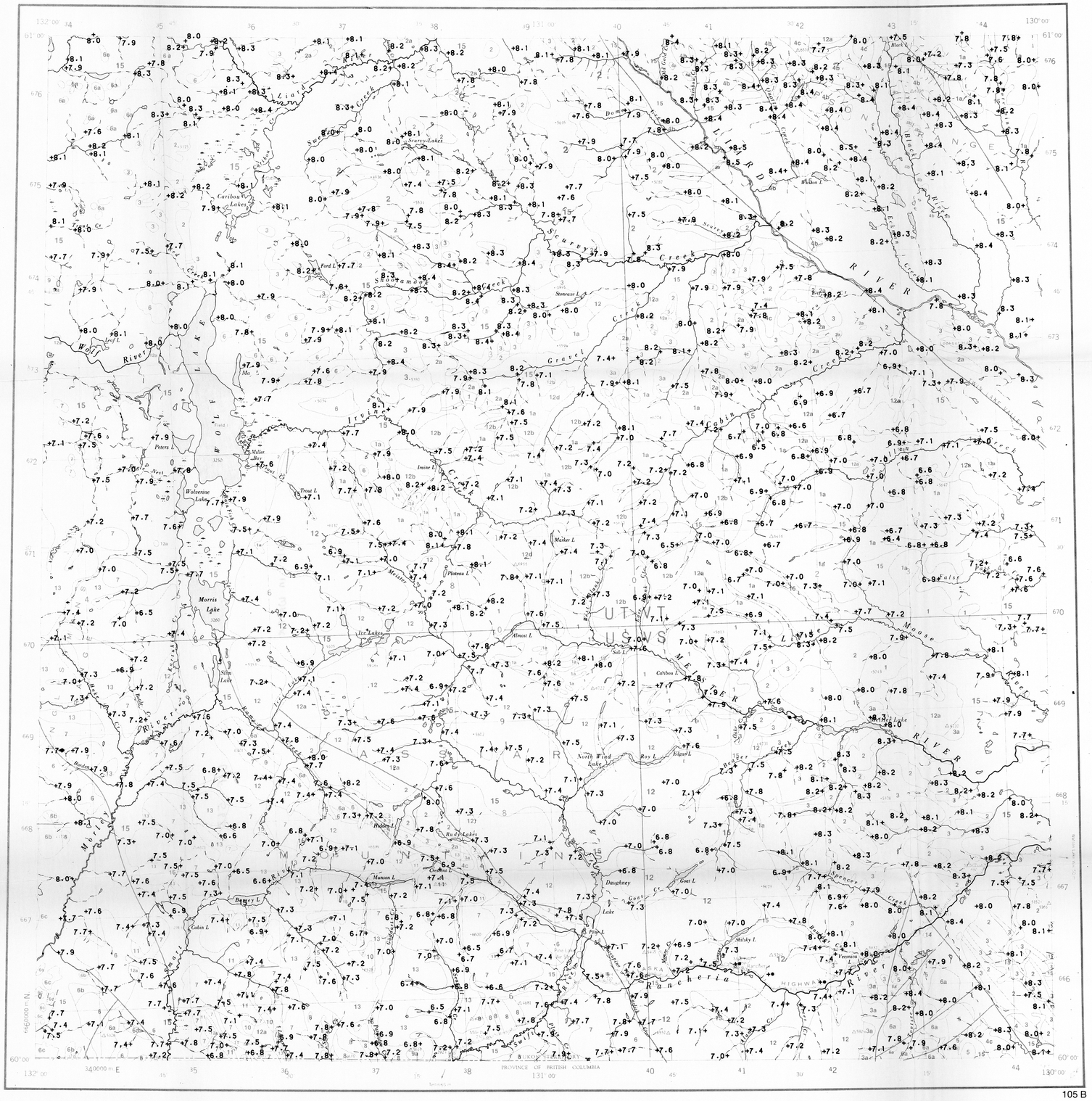
Canada
Department of Energy, Mines and Resources
Geological Survey of Canada

105 B



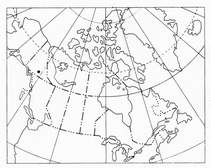
105 B

Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at users expense by application to:

K.G. Campbell Corporation
880 Wellington St.,
Bay 238
Ottawa, Ontario
K1R 6K7

The data is also available in digital form. For further information please contact

The Director
Computer Science Centre
Department of Energy, Mines and Resources
Ottawa, Ontario
K1A 0E4



INDEX MAP

Elevation in feet above mean sea level

Mean magnetic declination 1978, 31°45.3' East, decreasing 3.4' annually. Readings vary from 31°25.8' in the SE corner to 32°03.6' in the NW corner of the map

pH in water

OPEN FILE 563

NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 43-1978

URANIUM RECONNAISSANCE PROGRAM

STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY

SOUTHERN YUKON TERRITORY 1978

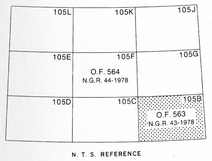
Scale 1:250,000

Kilometres 6 0 6 12 18 Kilometres

Miles 4 0 4 8 Miles

Universal Transverse Mercator Projection

Base-map at the same scale published by the Mapping and Charting Establishment, Department of National Defence, 1952



N. T. S. REFERENCE

pH in water

OPEN FILE 563

SOUTHERN YUKON TERRITORY 1978

LEGEND

PLEISTOCENE AND RECENT

15 (64 TILL)† Glacial Till: gravel, sand, silt, lake clay, volcanic ash

14 (63 BSLT) Vesicular olivine basalt

CRETACEOUS AND TERTIARY
UPPER CRETACEOUS OR LOWER TERTIARY

13 (56 QZMZ) Seagull and Hake Batholiths and Stocks: biotite leucoquartz monzonite and alaskite

JURASSIC AND/OR CRETACEOUS

12 (52 QZMZ) Cassiar Batholith: mainly biotite monzonite and granodiorite; Ram Stock: biotite-hornblende quartz monzonite and granodiorite, in part sheared, 12a (51 QZMZ) Logjam Stocks: biotite-hornblende quartz monzonite with basic borders, 12b Biotite-muscovite granodiorite

11 (51 QRZD) Diorite, granodiorite, quartz diorite, gneiss, hornblendite

10 (46 DUNT) Ultramafic rocks: olivine-bearing clinopyroxenite, dunite; serpentinized and metamorphosed equivalents

PERMIAN TO JURASSIC (?)

9 (40 CGLM) Pebble and cobble conglomerate, greywacke, limestone, minor quartzite, chert, 9a (40 AGLM) Andesitic volcanic breccia and tuff, minor lava (?)

MISSISSIPPIAN

8 (34 CHRT) Chert, slate, argillite, hornfels, minor greywacke, limestone, dolomite, skarn, sandy and conglomeratic tuff, quartzite, pebble and cobble conglomerate

DEVONIAN AND MISSISSIPPIAN

7 (30 CHRT) Chert, hornfels, argillite, slate, phyllite, quartzite, skarn, tremolitic marble, dolomite, 7a (30 SCST) Schist and gneiss

6 (30 GRNS) Greenstone, chlorite schist, quarlzite, phyllite, slate, argillite, chert, 6a (30 ARGL) Argillite, slate, phyllite, chert, grit, conglomerate, quartzite, 6b (30 LMSN) Limestone and dolomite, chert modules, 6c (30 GNSS) Quartz-albite-mica gneiss, albite-actinolite schist

SILURIAN AND DEVONIAN

5 (25 DLMT) Grey and black fetid dolomite underlain by quartzite and dolomitic quartzites; grey-buff dolomite underlain by thin bedded shale; limestone, buff dolomitic siltstone and quartzite

CAMBRIAN TO SILURIAN

4 (14 SLTE) Thin-bedded buff and grey slate, phyllite, limestone, 14a (14 PLLT) Thin-bedded buff and grey phyllite and limestone, black slate, argillite, grey dolomite, dolomitic limestone, 14c (14 HRFL) Hornfels, limestone, skarn

CAMBRIAN
LOWER CAMBRIAN

3 (10 LMSN) Grey limestone, minor dolomite, slate and phyllite, minor grey and green argillite, dolomite, 3a (10 MRBL) Marble, skarn

CAMBRIAN AND (?) EARLIER

2 (11 QRTZ) Quartzite, minor slate and phyllite, quartz grit and fine pebble conglomerate, 2a (11 PLLT) Phyllite, minor slate, hornfels

Probably Metamorphic Equivalents of 2

1 (11 BSCS) Biotite, schist and quartzite, 1a (11 MRBL) Marble and skarn; also contains sills, dykes and irregular bodies of pegmatite, gneiss

†A four letter mnemonic name recorded as rock type and a two digit number recorded as age as part of field observations

Geological boundary.....

Fault.....

No analytical result.....*

This legend was modified and the geology derived for this geochemical map from Geological Survey of Canada, Map 10-1966 and 2116

Geological Survey of Canada
Resource Geophysics and Geochemistry Division

CONTRACTORS

Sample collection by BEMA Ltd.
Sample preparation by Golder Associates
Uranium in sediment chemical analyses by Atomic Energy of Canada Ltd.
Other sediment chemical analyses by Chemex Labs Ltd.
Water chemical analyses by Barringer Magenta Ltd.

This map forms one of a series of 45 maps released by the Geological Survey of Canada, Open Files 563, 564 and 565. Each Open File consists of maps for 12 elements for lake sediments, 1 element for lake waters, and 1 each for sample site locations, sediment loss on ignition, and water pH.

pH in water

OPEN FILE 563

SOUTHERN YUKON TERRITORY 1978