Geochemical Symbol and Data Presentation

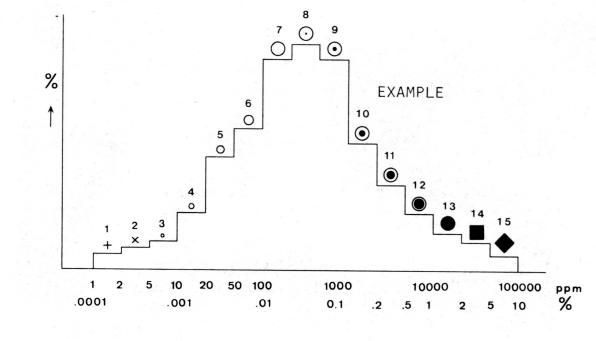
The concentration of an element at a sample site is graphically represented as one of 15 symbols. If a sample was collected but there is no data available a dot is plotted. The symbols are symmetrically arranged so that they first increase in size to the eighth symbol and then increase in blackness to the fifteenth. The two small crosses at the low end of the scale are used to respectively denote concentrations below the analytical detection limit, or, in the data group containing the detection limit. The data are grouped on a semi-logarithmic scale, i.e. 1,2,5,10,20,50,100 etc. Five decades can be spanned and this arbitrary division has been chosen for the continuing Canada wide series of maps constituting the National Geochemical Reconnaissance.

The choice of symbols and the data groups they represent for any specific element is based on the histogram and cumulative frequency plot for the total survey data from one, or more contiguous, open file sheets covered in one field season (above). The eighth symbol is used for the model group as defined by the histogram. This group usually includes the median of the data as defined by the 0.5 (50%)point on the cumulative frequency plot. Some, or all, of the remaining 14 symbols are chosen so as to achieve an appropriate graphical impact. An example of all 15 symbols is given below.

The symbol maps, being based on the total survey data distribution, are unaffected by tha availability of ever increasing levels of knowle ge in bedrock and surficial geology, and other environmental factors. Therefore, the raw data symbol maps are only intended to assist the rapid inspection of the data for gross regional features. To fulfill the needs of a more specific and thorough interpretation, the raw symbol maps should be modified using the field and analytical data provided in the data listings and any other knowledge available.

The data listings contain notes on survey and analytical methods, raw data listing with legend and statistics for total data as well as for data grouped on the basis of rock type.

To comprehensively study an area, all available geological, environmental and recorded data should be utilized. The data separation by bedrock type can often be improved by constructing new data subsets and deriving local threshold levels based on the most detailed and upto-date knowledge available.



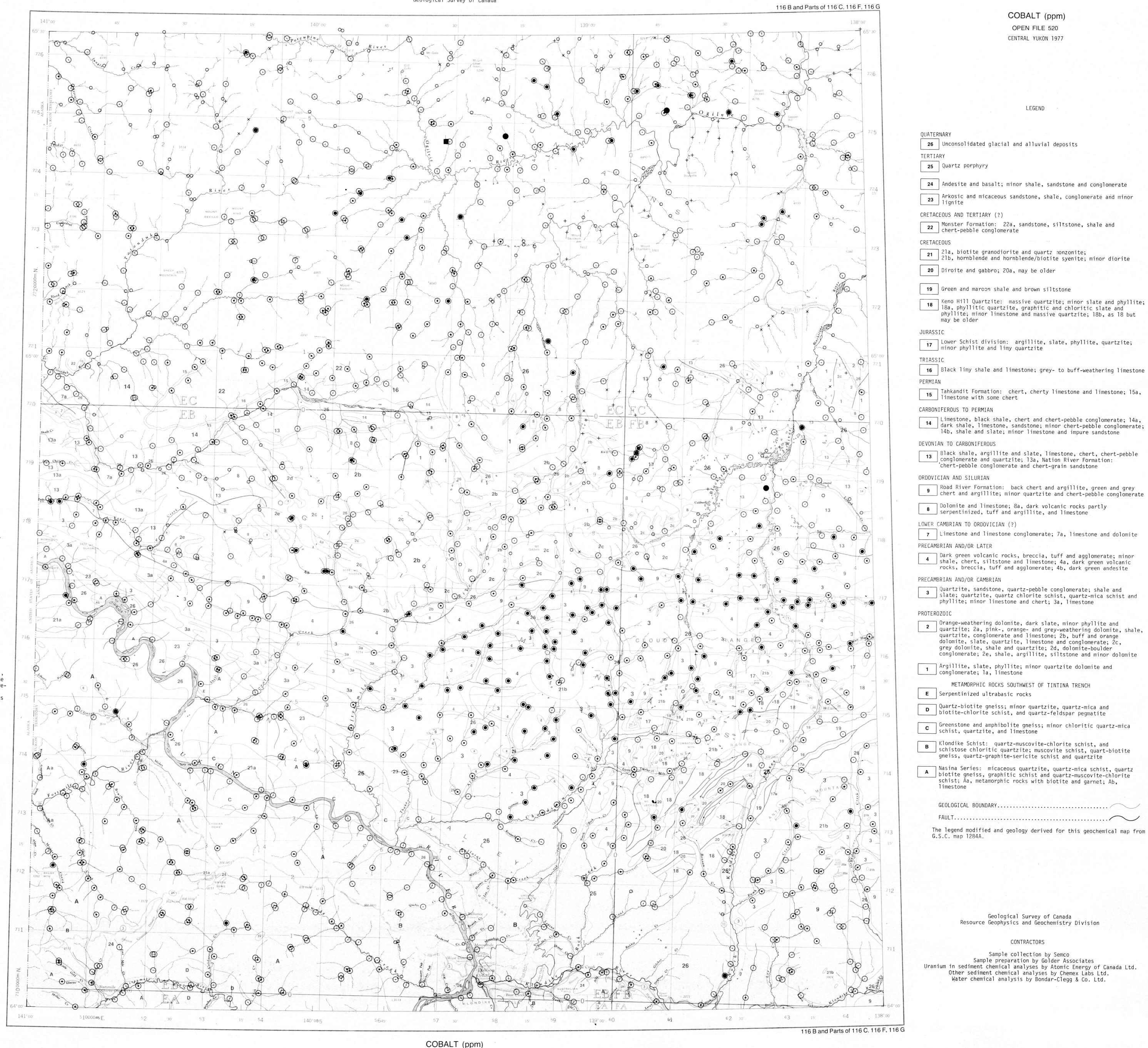
Copies of map material and listings of field observations and analytical data from which the material was prepared may be available at users expense by application to:

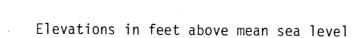
> K.G. Campbell Corporation 880 Wellington Street Bay No. 238 Ottawa, Ontario

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

K1R 6K7

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





Mean magnetic declination 1978, 32041.0' East. decreasing 1.6' annually. Readings vary from 32048.6' in the SE corner to 32027.9' in the NW corner of the map-area

OPEN FILE 520 NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 31-1977 URANIUM RECONNAISSANCE PROGRAM CENTRAL YUKON 1977 Scale 1:250,000

> Universal Transverse Mercator Projection © Crown Copyrights reserved

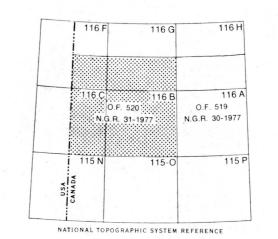
Base-map assembled by the Geological Cartography Unit from maps published at the same scale by the Surveys and Mapping Branch in 1957, 1958

This map has been reprinted from a

scanned version of the original map

carte sur papier

Reproduction par numérisation d'une



This map forms one of a series of 42 sheets released under the Geological Survey of Canada. Open Files 518, 519, 520. The Open Files consist of maps for 11 elements, each for stream sediments, 2 elements for stream waters and sample site locations.

COBALT (ppm) OPEN FILE 520 CENTRAL YUKON 1977

COBALT (ppm)

OPEN FILE 520 CENTRAL YUKON 1977

LEGEND

24 | Andesite and basalt; minor shale, sandstone and conglomerate

」21b, hornblende and hornblende/biotite syenite; minor diorite

Keno Hill Quartzite: massive quartzite; minor slate and phyllite;

phyllite; minor limestone and massive quartzite; 18b, as 18 but

Tahkandit Formation: chert, cherty limestone and limestone; 15a,

14b, shale and slate; minor limestone and impure sandstone

chert-pebble conglomerate and chert-grain sandstone

Dolomite and limestone; 8a, dark volcanic rocks partly

phyllite; minor limestone and chert; 3a, limestone

Orange-weathering dolomite, dark slate, minor phyllite and

grey dolomite, shale and quartzite; 2d, dolomite-boulder

Argillite, slate, phyllite; minor quartzite dolomite and

METAMORPHIC ROCKS SOUTHWEST OF TINTINA TRENCH

gneiss, quartz-graphite-sericite schist and quartzite

quartzite, conglomerate and limestone; 2b, buff and orange dolomite, slate, quartzite, limestone and conglomerate; 2c,

conglomerate; 2e, shale, argillite, siltstone and minor dolomite

The Greenstone and amphibolite gneiss; minor chloritic quartz-mica

Nasina Series: micaceous quartzite, quartz-mica schist, quartz

schist; Aa, metamorphic rocks with biotite and garnet; Ab,

GEOLOGICAL BOUNDARY....

FAULT....

Geological Survey of Canada Resource Geophysics and Geochemistry Division

CONTRACTORS

Sample collection by Semco Sample preparation by Golder Associates

Other sediment chemical analyses by Chemex Labs Ltd. Water chemical analysis by Bondar-Clegg & Co. Ltd.

G.S.C. map 1284A.

The legend modified and geology derived for this geochemical map from

Black shale, argillite and slate, limestone, chert, chert-pebble

Road River Formation: back chert and argillite, green and grey

rocks, breccia, tuff and agglomerate; 4b, dark green andesite

26 Unconsolidated glacial and alluvial deposits

20 Diroite and gabbro; 20a, may be older