

**SURFICIAL GEOLOGY**

Undivided surficial deposits.

Bedrock exposures; includes discontinuous veneer of undivided glacial drift.

**SYMBOLS**

Surficial deposit boundary

Limit of Pre-Reld ice advance

Limit of Reld ice advance

Limit of McConnell (Ruby) ice advance

Major meltwater channels, indicating direction of flow

Drumlinoid form; direction of glacial movement inferred, not inferred

**Sources of information:**

Bostock, H.S. (1964) Geology - McQueston, Yukon Territory, Geological Survey of Canada, Map 1143A, scale.

Bostock, H.S. (1947) Geology - Mayo, Yukon Territory, Geological Survey of Canada, Map 890A, scale one inch to four miles.

Hughes, O.L., Campbell, R.B., Muller, J.E., and Wheeler, J.O. (1968) Glacial Map of Yukon Territory, Geological Survey of Canada, Map 6-1968 (1:1,000,000 scale) to accompany GSC Paper 68-34.

Hughes, O.L. (1982) Surficial Geology and Geomorphology - Janet Lake, Yukon Territory, Geological Survey of Canada, Map 4-1982, 1:100,000 scale.

Hughes, O.L. (1982) Surficial Geology and Geomorphology - Mount Edwards, Yukon Territory, Geological Survey of Canada, Map 5-1982, 1:100,000 scale.

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

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**CONTRACTORS**

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Water and Au chemical analysis by Chemex Labs Limited, Vancouver

Geological base prepared by Terra Surveys Ltd., Ottawa

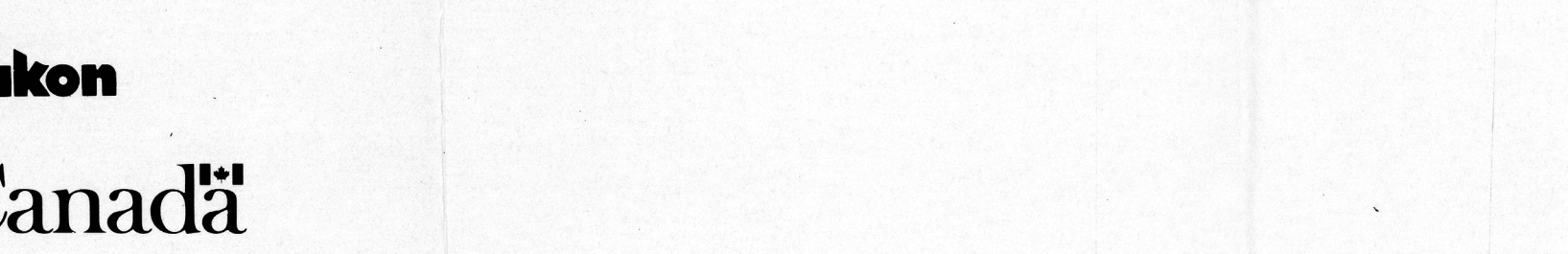
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Copies of the Open File map material, element trend and symbol plots, listing of field observations, analytical data, descriptions of analytical methods, and digital data on IBM-PC compatible diskette are available by inquiring to:

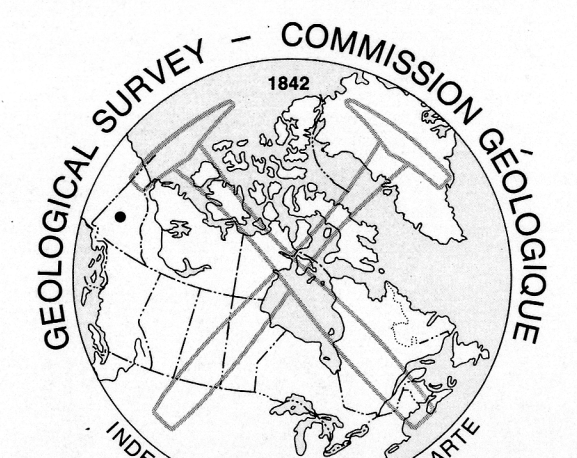
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Contribution à l'Entente auxiliaire Canada/Yukon sur l'exploitation minière 1985-89 dans le cadre de l'Entente Canada/Yukon sur le développement économique.



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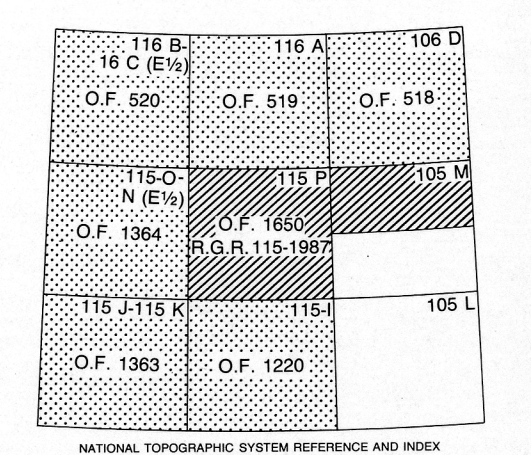


Elevation in feet above mean sea level

Mean magnetic declination 1988, 31° 12' East, decreasing 11.1' annually. Readings vary from 30° 16' in the SW corner to 32° 08' in the NE corner of the map area.

**SAMPLE LOCATION  
STREAM SEDIMENTS**  
GSC OPEN FILE 1650  
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 115-87  
CANADA - YUKON  
MINERAL DEVELOPMENT AGREEMENT (1985-1989)  
STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY  
CENTRAL YUKON, 1987

Scale 1:250 000 - Échelle 1/250 000  
Kilometres 5 10 15 20 Kilometers  
Universal Transverse Mercator Projection  
Projection transverse universelle de Mercator  
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QUATERNARY	
PLEISTOCENE AND RECENT	
29	Qs 64* Glacial and surficial deposits
28	Rs 64 SELKIRK GROUP: basalt, andesite flows, breccia, tuff
TERTIARY	
MIOCENE	
27	Mvr 61 Rhyolite, trachyte
LATE TERTIARY	
26	Ltg 61 Rhyolite porphyry, granite, granodiorite
OLIGOCENE AND MIOCENE	
25	OMCV 60 CARMACKS GROUP: andesite, basalt, breccia
EARLY TERTIARY	
24	ETf 59 Granite and syenite porphyry, rhyolite
LOWER TERTIARY	
23	Its 58 Conglomerate, sandstone, shale
CRETACEOUS	
22	Ky 52 Syenite, monzonite
21	Kg 52 Granite
20	KSF 52 SOUTH FORK: andesite, dacite, basalt
19	Kqm 52 Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alkalsite
JURASSIC AND CRETACEOUS	
18	JKKH 51 KENO HILL: quartzite (may be older)
17	JKd 51 Diorite, hornblende diorite
16	JKb 51 Gabbro, diorite, some ultramafic rocks
JURASSIC	
15	Jp 47 Graphitic phyllite, quartzite, greenstone
MESOZOIC	
14	Mcy 41 Conglomerate, chert, tuff
13	Mwd 41 Andesite, trachyte
PALEOZOIC	
12	Ps 36 Greywacke, argillite, limestone; includes local basic volcanics and volcanoclastic sediments
CARBONIFEROUS AND PERMIAN	
11	CPAV 35 ANVIL RANGE GROUP: andesite, basalt, slate, chert, limestone
10	CPsn 35 Schist, gneiss, includes BIG SALMON METAMORPHIC COMPLEX
DEVONIAN AND MISSISSIPPIAN	
9	DMCP 29 CRYSTAL PEAKS: chert pebble conglomerate
DEVONIAN	
8	DEI 25 EARN GROUP (lower): slate, quartzite, limestone
ORDOVICIAN, SILURIAN AND LOWER DEVONIAN	
7	OSDR 19 ROAD RIVER: black graptolitic shale, chert
PALEOZOIC	
6	Pgdn 09 PELLY GNEISS: foliated to gneissic granodiorite
5	Pc 09 Limestone
HADRYNIAN	
4	Hc 07 Crystalline limestone
3	Hgp 07 Gritty quartzite, argillite, shale, phyllite
2	Hpq 07 Graphitic phyllite, quartzite
1	Hv 07 Greenstone

\*A mnemonic code assigned to rock types and recorded as part of field observations.

Geological boundary

Fault

No analytical results

Field duplicate sample sites

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 Sheet 105, Geological Survey of Canada, Energy, Mines and Resources Canada, 1:1,000,000 Scale.