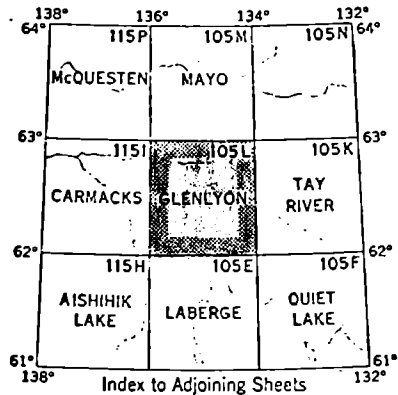


014568



GLENLYON
YUKON TERRITORY

SHEET 105 L
FIRST EDITION

LODIE OCCURRENCES

GLENLYON RANGE AREA

Detour Lakes

NTS 105 L 10

#1 Glenlyon Mines Limited (about 62°40'N, 134°45'W)
(Copper-Lead-Zinc)

1966

Glenlyon Mines Limited holds a total of 311 claims in the Detour Lakes area, approximately 85 miles northwest of Ross River. The area lies in Tintina Valley and is partly underlain by Mississippian or later sedimentary and volcanic rocks (units 19,20; Campbell and Wheeler, 1960) that may be, in part correlative with unit 7 rocks of adjacent Tay River area, which host the lead-zinc deposits of the Anvil district. The general Detour Lakes area is marked by a distinct northwest-trending linear magnetic high paralleling Tintina Trench¹.

Copper-bearing float has been reported from the area in the past, but no significant mineral finds have been recorded. Following discovery of lead-zinc deposits in the Anvil district, attention was focussed on Detour Lakes and similar areas lying adjacent to Tintina Trench and containing rock types similar to those of the Anvil district, as likely exploration targets. During the 1966 season the company carried out airborne electromagnetic and magnetic surveys over the property and followed up a number of anomalies with reconnaissance soil sampling and geological mapping programs. A detailed geochemical survey was carried out over a significant anomaly lying south of Detour Lake. A crew of up to 12 men were employed on the operation. The property was not visited.

¹Geol. Surv. Can. Geophysics Paper 7209, Glenlyon, 1966.

NTS 105 L 10

#2 General Enterprises Limited (H. Johannes) (about 62°43'N, 134°
(Copper-Lead-Zinc) 45'W)

1966

This company owns 128 claims in the Detour Lakes area, immediately north of the Glenlyon Mines Limited property. Late in the 1966 season, ground magnetic and electromagnetic surveys were conducted over parts of the property. Up to 5 men were employed. In April 1967, construction of a 71-mile access road from Pelly Crossing to the property was begun. The property was not visited.

- #3 Conwest Exploration Company Limited (62°45'N to 62°52'N, 134°⁸
(Copper) 1966 55'W to 135°20'W)

Midway through the 1966 field season, Conwest Exploration Company Limited staked a total of 516 claims in an area lying northwest of Detour Lakes and extending from Pelly River on the southeast nearly to MacMillan River on the northwest. The claims lie adjacent to and north of Tintina Trench and occurrences of copper mineralization have been reported from this general area in the past. The company initiated a general exploration program on the property, working from a base camp at Earn Lake about 20 miles to the east, and late in the 1966 season some diamond drilling was carried out. The property was not visited.

- #4 Mud Group - 105-L-1 - 62°12'N, 134°15' W.
Atlas Explorations, 1966-1967.



136°00' 46 45' 47 30' 48 15' 49 135°00' 51 45' 52 30' 53 15' 54 134°00'



63°00' 698 697 696 45' 695 694 693 30' 692 691 15' 690 689 688 62°00' 136°00' 46 45' 47 30' 48 15' 49 135°00' 51 30' 52 15' 53 134°00'

6880,000m.N
136°00' 45000m.E

CHOPPER, GLENLYON 105L

inches
0 1 2

centimetres
0 1 2

This reference scale bar has been added to the original image. It will scale at the same ratio as the image, therefore it can be used as a reference for the original size.

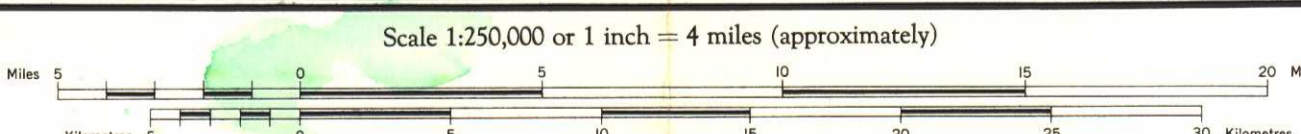


ION OF THE COMPASS NEEDLE 1950

Surveys in 1947 and compilation in 1950 by the Topographical Survey from air photographs taken in 1949. Lithographed and printed by the Army Survey Establishment, R.C.E., Department of National Defence, 1951.

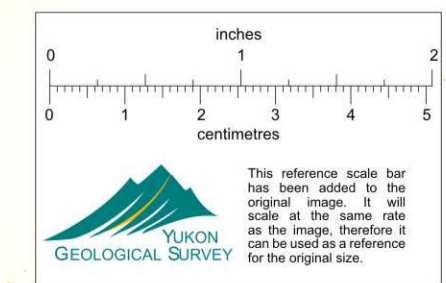
REFERENCE

| | | | | |
|--|-----------------------|--------------------------|------------------|-------------------|
| Road, Hard Surface, All Weather | More than 2 Lanes | 2 Lanes | Route No. | Less than 2 Lanes |
| Road, Loose Surface, All Weather | 2 Lanes or More | Less than 2 Lanes | Dry Weather | |
| Road, Special, etc. | Snow Road, Pack Route | Cart Road | Portage or Trail | |
| Boundary, International | Boundary Mon. | Survey Mon. | | |
| Boundary, Provincial | Boundary Mon. | Triangulation Sta. | | |
| Boundary, County or District | Boundary Mon. | Spot Elevation (in feet) | 4590 | |
| Boundary, Township, Seignior or Parish | Boundary Mon. | Telephone, Trunk Route | | |
| Boundary, Indian Reserves, Park | Boundary Mon. | Station | | |
| Sectional and Base Lines (Surveyed) | Multiple Track | Abandoned | Single Track | |
| Railway, Standard Gauge | Multiple Track | Abandoned | Single Track | |
| Main Electric Power Line | Station | Stop | | |



105-L
GLENLYON

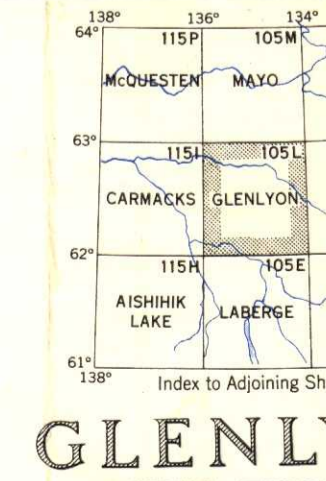
Price 25 Cents



Copies may be obtained from the Map Distribution Office, Department of Mines and Technical Surveys, Ottawa.

REFERENCE

| | | |
|----------------------------------|---------------------|-------------------------------|
| Building | Fire Lookout Tower | Contours, Elevation |
| School | Wireless Station | Contours, Approximate |
| Post Office | Mine | Contours, Depression |
| Church | Climb | Esker |
| Stream, Indefinite or Unsurveyed | Wooded Areas | Navigable |
| Stream, Intermittent | Navigable Canal | Rapids and Falls |
| Stream, in Dry River Bed | Ferry | Dam |
| Braided Stream | Lighthouse | Aerodrome (Elevation in feet) |
| Marsh or Swamp | Sand, Gravel or Mud | Seaplane Anchorage |



GLENLYON
YUKON TERRITORY

| <u>NTS & Occur.</u> <u>Number</u> | <u>Reference</u> | <u>Name of Occurrence</u> | <u>Date</u> | <u>Lat. & Long.</u> | <u>Metals</u> | <u>Host Rock (with age)</u> | <u>Alteration, Gangue and Control</u> | <u>Remarks</u> |
|--|------------------|---------------------------------|-------------|----------------------------------|---------------|--|--|---|
| <u>GLENLYON</u> <u>105-L</u> | | | | | | | | |
| 105L10-1 | 65 GSC P67-36 | Glenlyon Mines Ltd. | 1966 | 62°40'N 134°45'W | Cu, Pb, Zn | | | Copper bearing float reported from the area in the past. |
| 105L10-2 | | General Enterprises Ltd. | 1966 | 62°43'N 134°46'W | Cu, Pb, Zn | | | |
| 105L14-3 | | Conwest Explorations Ltd. | 1966 | 62°48'N 135°08'W (approx.) | Cu | | | 516 claims in the area |
| 105L1-4 | | Atlas | 1966 | 62°12'N 134°15'W | | | | Mud Group |
| 105L1-5 | 64 GSC P67-36 | Kerr Add. | 1965 | 62°12'N 134°09'W | Ag, Pb, Zn | 1. Thin banded silicated rock. 2. Qtz-feld porph. contact with above | 1. Qtz-siderite veins 2. Contact pyrite calcite sericite? | 4 d.d.h. - 1200' 1. Vein 3' wide S70°E/steeply SW best 1'- 23.53 oz. Ag. 48.76 Pb and 1.6 Zn. 2. Magnetite rich contact rock -gypsum rich specimen-0.05 oz. Au; 0.36 oz. Ag, 0.3 Pb; 0.2 Zn; 0.37 Cu. -Magnetometer indicated 1400' extension to W.-d.d.h. intersected magnetite rich zone. Thinly banded rock-orthoclase & diopside (limy rock) |

GLENLYON 105 L.

1) 105 L - 10

19-B. From Detour Lakes.

a) Check 19-B for Uranium. Area A.

b) Ridge immediately N of Detour Lake - detail geochem - Cu, Pb, Zn. Area A.

c) Unit ~~1~~ 3 and 4. Centre Glenlyon Range
Should receive detailed geochem for orientation
Area B.

d) Geochem Area C for Cu Pb Zn.

e) 105 L - 8 - Area D. S.O.S. Area B.

f) 105 L - 7 Area E Spot check Skarn

Ridge - Follow up Skarn Areas as indicated
check Tungsten, Be.

Property Name: Common LITTLE SALMON Other
Location: Lat. 52°12' Long. 134°09' NTS 105L/1
Metals: Major Silver, lead, zinc Minor Copper, tungsten
Type of Mineral Deposit: Skarn, vein

History and Previous Work:

The early history is unknown before it was shown to the G.S.C. in 1928. It is possible that the Hero and Echo cl (12337), staked in June/13 "in the Glenlyon Range, 35 miles from the Pelly River" by Hibbard Porter for copper, were located here. Staked as Kulan, etc cl in Sept/52 by A. Kulan and B. Law and optioned in 1953 to Prospectors Airways L, which conducted geophysical surveys and drilled 20 shallow holes (547 ft) between 1953 and 1956. Adjoining ground was held at this time by British Yukon EL (Misa and Johanna cl -68796). All claims lapsed after the option was dropped. The showing was restaked by Kulan as Carol cl (77908) in Aug/62 and optioned to Kerr Addison ML, which conducted mag, EM and SP surveys in 1963 and drilled 4 holes (about 1200 ft) in 1964 before dropping the option. The claims were then optioned in 1965 by Atlas EL, which flew an airborne mag and EM survey in the spring of 1966, and conducted ground mag and EM surveys and soil sampling later in the year.

Description:

Two showings occur close together. The Cliff showing consists of a 3 ft. wide quartz vein which cuts metasediments and contains sphalerite, galena, pyrite and minor siderite. Two samples by the G.S.C. assayed as follows:

| | <u>Ag (oz/ton)</u> | <u>Pb(%)</u> | <u>Zn(%)</u> | <u>Cu(%)</u> | <u>Au(oz/ton)</u> |
|--|--------------------|--------------|--------------|--------------|-------------------|
| L.H. Green - grab | 0.9 | 0.4 | 22.5 | tr. | 0.02 |
| W.E. Cockfield - chip across 1.0 ft | 23.5 | 48.8 | 1.6 | NA | tr. |

The Lake showing consists of a garnet-diopside skarn horizon up to 20 ft. thick developed at the contact of a quartz-feldspar porphyry sill. Mineralization consists of magnetite, pyrrhotite and pyrite, with lesser amounts of galena, sphalerite, chalcopyrite, fluorite and scheelite. The skarn is considered to have formed from a limy tuff bed.

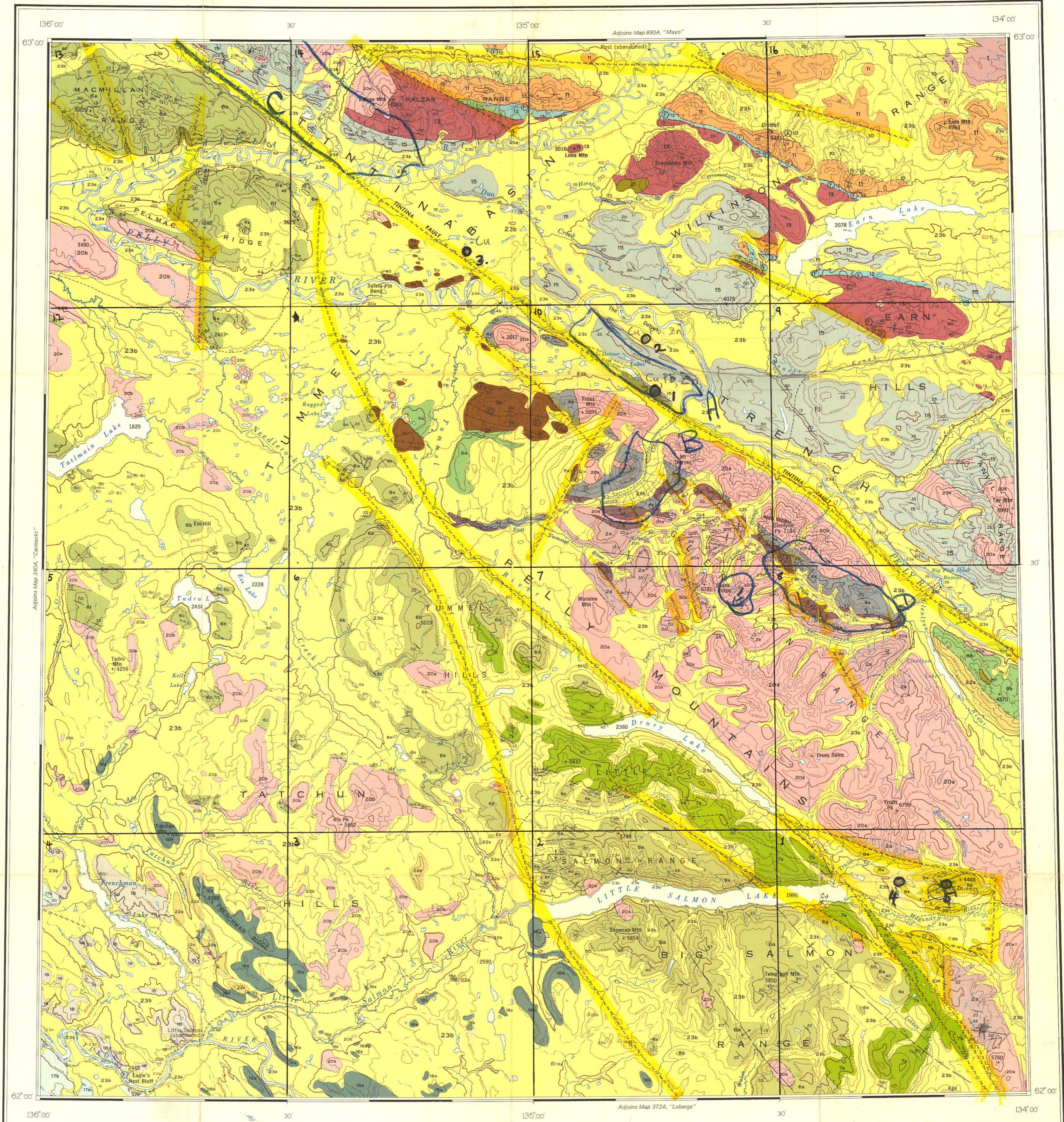
References:

- Sum. Rept. 1928, Pat. A, pp 1-10
- P 65-19, pp 38-40
- ER, Aug/63 by P.M. Kavanagh and W.M. Sirola for Kerr Addison ML-filed for assessment credit.
- ER, May/66 by D.D. Campbell in Atlas EL Prospectus
- Mineral Inventory Cards, Dept. of Energy, Mines & Resources



LEGEND

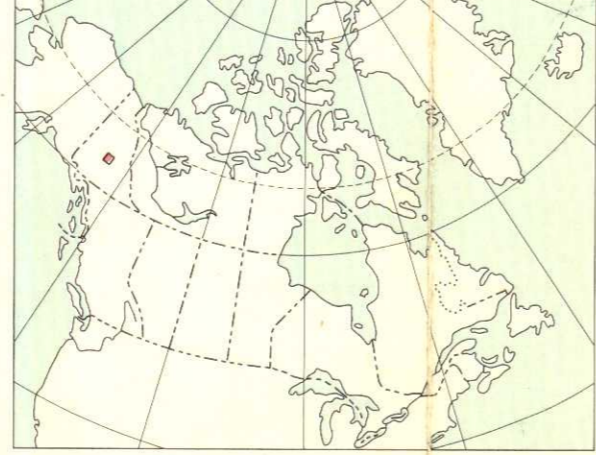
- PLEISTOCENE AND RECENT**
- 23** 23a, stream deposits; gravel, sand, silt; 23b, glacial gravel, sand, silt, clay, till, volcanic ash, bog deposits and soil; few if any bedrock exposures
- TERTIARY**
- 22** 22a, basaltic flows, minor shale and conglomerate; 22b, trachytic and basaltic flows; may be younger than 22a
- 21** Quartz-feldspar porphyry, rhyolite
- JURASSIC AND/OR CRETACEOUS AND (?) EARLIER**
- 20** 20a, biotite granodiorite and quartz monzonite; minor biotite-hornblende quartz diorite and leuco-quartz monzonite; 20b, biotite-hornblende granodiorite, quartz monzonite, quartz diorite; 20c, augite-hornblende monzonite and syenite; minor mafic rocks; 20d, hornblende diorite; 20e, gneissic granitic rocks
- JURASSIC (?) AND CRETACEOUS (?)**
- UPPER JURASSIC (?) AND LOWER CRETACEOUS (?)**
TANTALUS GROUP (?)
- 19** 19a, chert pebble and cobble conglomerate and sandstone; 19b, conglomerate, shale, sandstone (19b may be early Tertiary)
- JURASSIC LOWER JURASSIC AND LATER LABERGE GROUP**
- 18** Arkose and conglomerate, sandstone, siltstone, argillite
- TRIASSIC UPPER TRIASSIC LEWIS RIVER GROUP**
- 17** 17a, limestone; 17b, basaltic and andesitic volcanic rocks, conglomerate, greywacke
- UPPER TRIASSIC OR EARLIER**
- 16** 16a, andesitic and basaltic flows, breccia, tuff; minor rhyolite breccia and argillite; 16b, limestone and limestone conglomerate and breccia (interbedded with 16a; may represent several limestone units)
- MISSISSIPPIAN OR LATER ANVIL RANGE GROUP**
- 15** Andesitic and basaltic flows, breccia, tuff; diorite, slate, phyllite; minor limestone, chert, carbonaceous shale; local quartz-mica schist and lime-silicate rocks
- 14** Serpentine
- EARN GROUP (10-13)**
- 13** Thin-bedded chert, argillite, quartzite, minor limestone
- MISSISSIPPIAN LOWER MISSISSIPPIAN**
- 12** KALZAS FORMATION: limestone, minor argillite, limy argillite, chert
- MISSISSIPPIAN AND/OR EARLIER**
- 11** CRYSTAL PEAK FORMATION: chert pebble and cobble conglomerate and breccia; minor quartzite
- 10** Bedded chert, argillite, quartzite, limestone, chert conglomerate
- 9** 9a, chert pebble and cobble conglomerate, slate, sandstone, greenstone; 9b, greenstone, tuff, cherty argillite, siliceous limestone, chert pebble conglomerate and minor hornfels
- MISSISSIPPIAN (?) OR EARLIER**
- 8** 8a, slate, argillite, quartzite, lime-silicate rocks, chert, limestone, minor greenstone; 8b, limestone
- 7** Dominantly meta-volcanic rocks; 7a, greenstone, greenschist, diorite, quartz-chlorite schist, chert, argillite, limestone; 7b, includes many small bodies of serpentine
- 6** 6a, quartz-hornblende-epidote schist, quartz-chlorite-sericite schist, white sericitic quartzite, quartz-mica schist (locally garnetiferous), greenstone, limestone, lime-silicate rocks; 6b, quartz-mica schist (locally garnetiferous), quartzite, marble, amphibolite; 6c, amphibolite and quartz-mica schist; 6d, argillite, phyllite, cherty quartzite, slaty tuff, greenstone, limestone; 6e, sericitic and chloritic quartzite, locally limy, feldspathic, or epidotic, greenstone, phyllite, limestone; 6f, limestone (probably represents several limestone units)
- SILURIAN (?) AND DEVONIAN (?) ASKIN GROUP (?)**
- 5** 5a, quartzite, dolomitic quartzite, slate, argillite; 5b, dolomite, siliceous dolomite, slaty limestone; interbedded with 5a (may represent two carbonate units)
- CAMBRIAN (?) AND/OR ORDOVICIAN (?) MIDDLE CAMBRIAN (?) AND LATER (?) HARVEY GROUP (2-4)**
- 4** 4a, slate, phyllite, spotted slate, hornfels; 4b, thin-bedded argillite, slaty limestone, minor hornfels
- CAMBRIAN (?) LOWER CAMBRIAN (?)**
- 3** Mainly limestone; phyllite, lime-silicate gneiss, skarn, quartz-biotite schist, slate, hornfels
- LOWER CAMBRIAN (?) OR EARLIER (?)**
- 2** 2a, quartzite and quartz-mica schist, locally garnetiferous; minor amphibolite, lime-silicate rocks, marble (includes small bodies of granitic rocks); 2b, marble, lime-silicate rocks, amphibolite, skarn
- PROTEROZOIC (?)**
- 1** Red, green, grey slate and quartzite



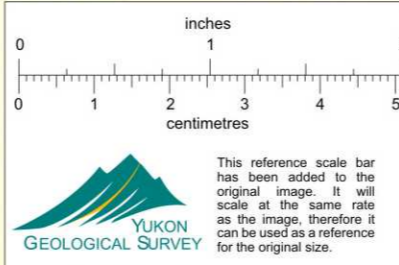
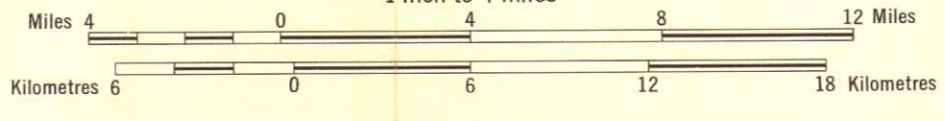
- Geological boundary (defined, approximate, assumed)
- Bedding, tops known (overturned)
- Bedding, tops unknown (inclined, vertical)
- Foliation or schistosity (inclined, vertical)
- Fault (defined, approximate, assumed)
- Anticline (approximate)
- Syncline (approximate)
- Fossil locality
- Mineral occurrence (Lead, Pb; zinc, Zn)

Geology by R. B. Campbell, 1949-1954 and J. O. Wheeler, 1956
To accompany GSC Memoir 352 by R. B. Campbell
Geological cartography by the Geological Survey of Canada, 1966

Published 1967, the Centennial of Canadian Confederation



MAP 1221A
GEOLOGY
GLENLYON
YUKON TERRITORY
Scale 1:253,440
1 inch to 4 miles



- REFERENCE**
- Trail
- Cabin
- Telephone line
- Intermittent stream
- Marsh
- Sand or gravel
- Contours (interval 500 feet)
- Height in feet above mean sea-level

Base-map compiled and drawn by the Surveys and Mapping Branch, 1951 with revisions by the Geological Survey of Canada

Mean magnetic declination, 32°59' East, decreasing 4.2' annually. Readings vary from 32°06' in the SW corner to 33°51' in the NE corner of the map-area

105 L
GLENLYON
OFFICE