LEGEND

Note: Weighted legend blocks indicate map-units that appear on this map

CENOZOIC

QUATERNARY

25 Unconsolidated glacial and alluvial deposits

TERTIARY

24 Dark grey and brown andesite and basalt, commonly porphyritic; minor shale, sandstone, and conglomerate

TERTIARY (?)

23 Quartz porphyry

MESOZOIC

CRETACEOUS (?) AND TERTIARY
UPPER CRETACEOUS (?) AND LATER

22 22a, poorly consolidated, brown, buff, and grey, arkosic and micaceous sandstone, light and dark shale, poorly sorted conglomerate; minor lignite and agglomerate; 22b, brown weathering, thin-bedded, brown chert-grain sandstone, siltstone, shale, and fine chert-pebble conglomerate

CRETACEOUS (?)

21 21a, fine- to coarse-grained, uneven textured, biotite granodiorite and biotite quartz monzonite; 21b, mainly hornblende and hornblende/biotite syenite, commonly porphyritic (potassium feldspar phenocrysts), uneven textured, mostly medium grained, locally fine or coarse grained; minor diorite

20 Orange to brown weathering diorite and gabbro; altered equivalents

JURASSIC
MIDDLE JURASSIC

19 Brown weathering, thin-bedded, brown siltstone, commonly limy; minor black shale and sandstone

TRIASSIC
UPPER TRIASSIC

18 Black weathering, platy, black limy shale and limestone; thin bands of grey to buff weathering limestone

PRE-MIDDLE JURASSIC

17 Grey and blue-grey, massive quartzite; minor slate and phyllite, commonly graphitic, argillaceous quartzite; 17a, thin-bedded and phyllitic quartzite, graphitic and chloritic slate and phyllite; minor limestone and massive quartzite

PERMIAN

16 White, light grey, and dark grey chert, cherty limestone, and limestone

CARBONIFEROUS TO PERMIAN

15 Buff weathering, dark grey, thin- to medium-bedded limestone; minor black shale, chert, and chert-pebble conglomerate; 15a, dark shale, argillaceous limestone, and thin-bedded brown sandstone; minor chert-pebble conglomerate; 15b, black and silvery weathering shale and slate; minor platy, buff weathering grey limestone, impure sandstone

POST DEVONIAN (?)

14 Dark grey argillite, slate, and phyllite, commonly graphitic, thin-bedded dark grey quartzite, platy to phyllitic quartzite; minor phyllite and limy quartzite

DEVONIAN TO CARBONIFEROUS
MIDDLE DEVONIAN TO CARBONIFEROUS

13 Black shale, argillite, and slate, black platy limestone, chert; minor chert-pebble conglomerate and quartzite; 13a, brown weathering fine chert-pebble conglomerate and chert-grain sandstone

PALAEOZOIC

DEVONIAN
LOWER MIDDLE DEVONIAN

11 Limestone, dark grey, brown and black, massive to thin-bedded, very fine grained, buff grey weathering

10 Limestone and dolomite, light grey and dark brownish grey, fine to medium grained, mostly alternating dark and light beds 2 to 5 feet thick

SILURIAN (?) TO MIDDLE DEVONIAN

12 Dark grey weathering, black, thin-bedded, platy limestone, commonly argillaceous and locally siliceous, and interbedded black chert

ORDOVICIAN AND SILURIAN

9 Mainly interbedded black chert and black argillite, also grey-green, olive green, and grey chert and grey-green argillite; minor quartzite, and chert-pebble conglomerate

CAMBRIAN, ORDOVICIAN, AND SILURIAN

8 Grey and buff weathering dolomite and limestone, mostly medium to thick bedded; minor platy black argillaceous limestone and dolomite (may include some 10 and 11); 8a, grey to dark grey weathering, dark volcanic rocks, many partly serpentinized, brown weathering grey-green limy tuff and argillite, and thin-bedded brown limestone

CAMBRIAN
MIDDLE (?) AND UPPER CAMBRIAN

7 Buff, brown, and grey weathering, thin- to medium-bedded, limestone, and grey weathering thin- to thick-bedded, dolomite; minor brown and green shale and orange weathering dolomite

LOWER (?) CAMBRIAN TO ORDOVICIAN (?)

6 Grey weathering, brown to buff limestone and limestone conglomerate; 6a, grey weathering, medium- to thick-bedded limestone and dolomite (may include some Precambrian)

CAMBRIAN (?)

5 Mainly brick red, thick-bedded to massive sandstone and red to buff massive conglomerate; minor red shale; local andesitic or basaltic flows and sills

PRECAMBRIAN AND/OR LATER

4 Dark brown and green to light grey weathering dark green volcanic rocks, commonly with calcite filled vesicles, breccia, tuff, and agglomerate; minor interbedded shale, chert, siltstone, and limestone; 4a, dark brown to dark green weathering dark green volcanic rocks, commonly with calcite filled vesicles, breccia, tuff, and agglomerate. Interbedded with 2b and may be older; 4b, dark green, fine-grained andesite

PRECAMBRIAN AND/OR CAMBRIAN

3 Mainly buff, brown, and rusty weathering, gritty quartzite, sandstone and quartz-pebble conglomerate; black, maroon and green shales, and slates; schistose quartzite, quartz chlorite schist, quartz-mica schist and phyllite; minor limestone and black chert; 3a, thin- to medium-bedded, dark grey limestone

PRECAMBRIAN

2 Orange weathering, platy, grey-green dolomite, dark slate; minor phyllite and quartzite; 2a, mainly black shale and slate, and platy sandstone; minor black limestone, quartzite, orange weathering dolomite and grey dolomite; 2b, buff weathering dolomite-boulder conglomerate; 2c, massive, cherty and quartzose, grey dolomite; thin-bedded, buff-weathering grey dolomite; minor black shale and white quartzite; 2d, buff, orange and pink dolomite, black shale; minor black limestone, red dolomite, green argillite, maroon quartzite and shale, and greenstone; 2e, dark grey, thinly laminated dolomite; minor black chert

1 Mainly dark grey, grey-green, and black, thin-bedded argillite, slate, and phyllite; minor grey quartzite, orange weathering dolomite, and conglomerate; 1a, grey weathering, thinly laminated, silicated limestone

METAMORPHIC ROCKS SOUTHWEST OF TINTINA TRENCH

A Reddish brown weathering dark green serpentinized ultrabasic rocks

B Mainly buff weathering, light pale green quartz-muscovite-chlorite schist, and schistose, chloritic quartzite, with all intermediate rock types also present; minor silvery muscovite schist, fine-grained quartz-biotite gneiss, thinly laminated quartz-graphite-sericite schist and quartzite, and sheared igneous rocks, primarily quartz-feldspar porphyries

C Grey and grey-green, micaceous quartzite; dark grey, light grey and silvery quartz-mica schist; minor fine-grained quartz biotite gneiss, graphitic schist and quartz-muscovite-chlorite schist; Ca, coarsely crystalline, whitish limestone

D Dark weathering greenstone and banded amphibolite gneiss; minor chloritic quartz-mica schist, graphitic quartz-mica schist, quartzite, and limestone

E Fine- to medium-grained, granitic textured, quartz-biotite gneiss; minor quartzite, quartz-mica and biotite-chlorite schist, and quartz-feldspar pegmatite

Geological boundary (defined, approximate and assumed)

Bedding (horizontal, inclined, vertical)

Bedding, tops unknown (dip known)

Bedding, estimated attitudes, may in part be of foliation; horizontal, inclined (dip: g, gentle; m, medium; s, steep)

Fault (defined, approximate, assumed)

Thrust fault (teeth in direction of dip; defined, approximate or assumed)

Anticline

Syncline

Fossil locality

Geology by L. H. Green and J. A. Roddick, 1961

Cartography by the Geological Survey of Canada, 1962

Mean magnetic declination, 33°20' East, decreasing 4.2' annually. Readings vary from 33°20' E in the SW corner to 34°51' E in the NE corner of the map area.

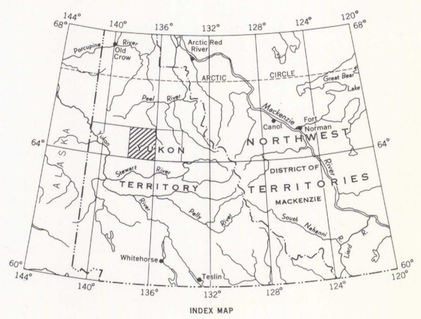
GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS

PRELIMINARY SERIES

SHEET 116 A

PUBLISHED, 1962

PRINTED BY THE SURVEYS AND MAPPING BRANCH



INDEX MAP

MAP 14-1962
TO ACCOMPANY PAPER 62-7

GEOLOGY

LARSEN CREEK

YUKON TERRITORY

Scale: One Inch to Four Miles = $\frac{1}{253,440}$

Miles

4 2 0 4 8 12

COPIES OF THIS MAP MAY BE OBTAINED FROM THE DIRECTOR, GEOLOGICAL SURVEY OF CANADA, OTTAWA

LEGEND

Intermittent stream

Marsh

Contours (interval 500 feet) 2500

Height in feet above mean sea-level 2327

Base-map by the Surveys and Mapping Branch, 1954

Geographical names subject to revision

MAP 14-1962
LARSEN CREEK
YUKON TERRITORY