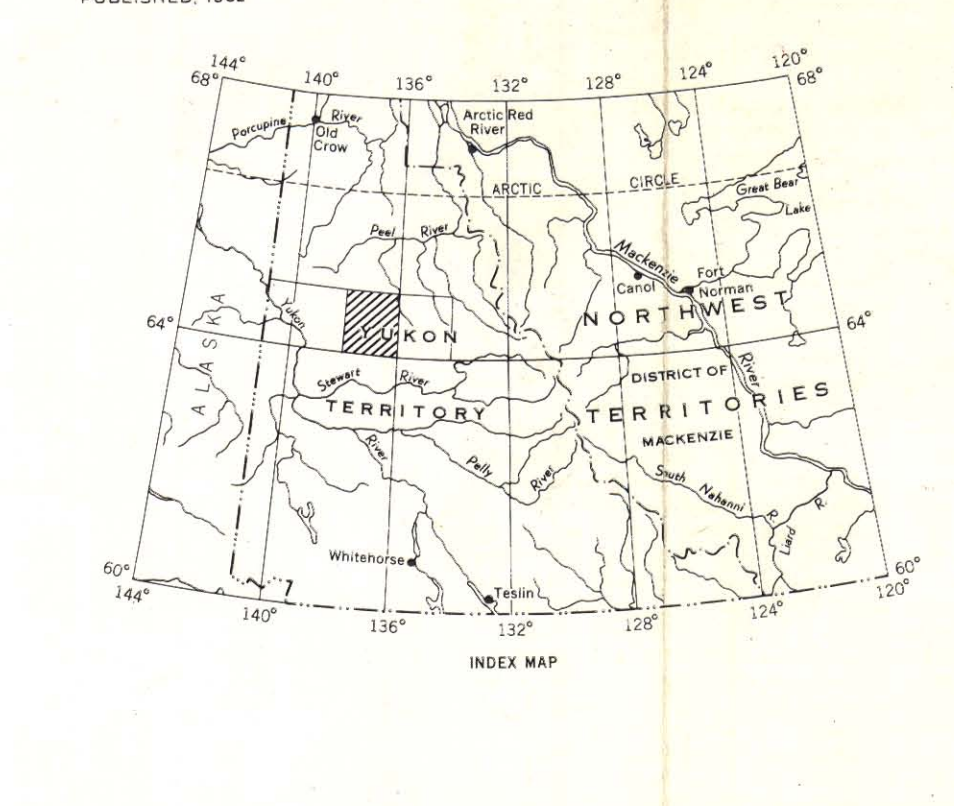
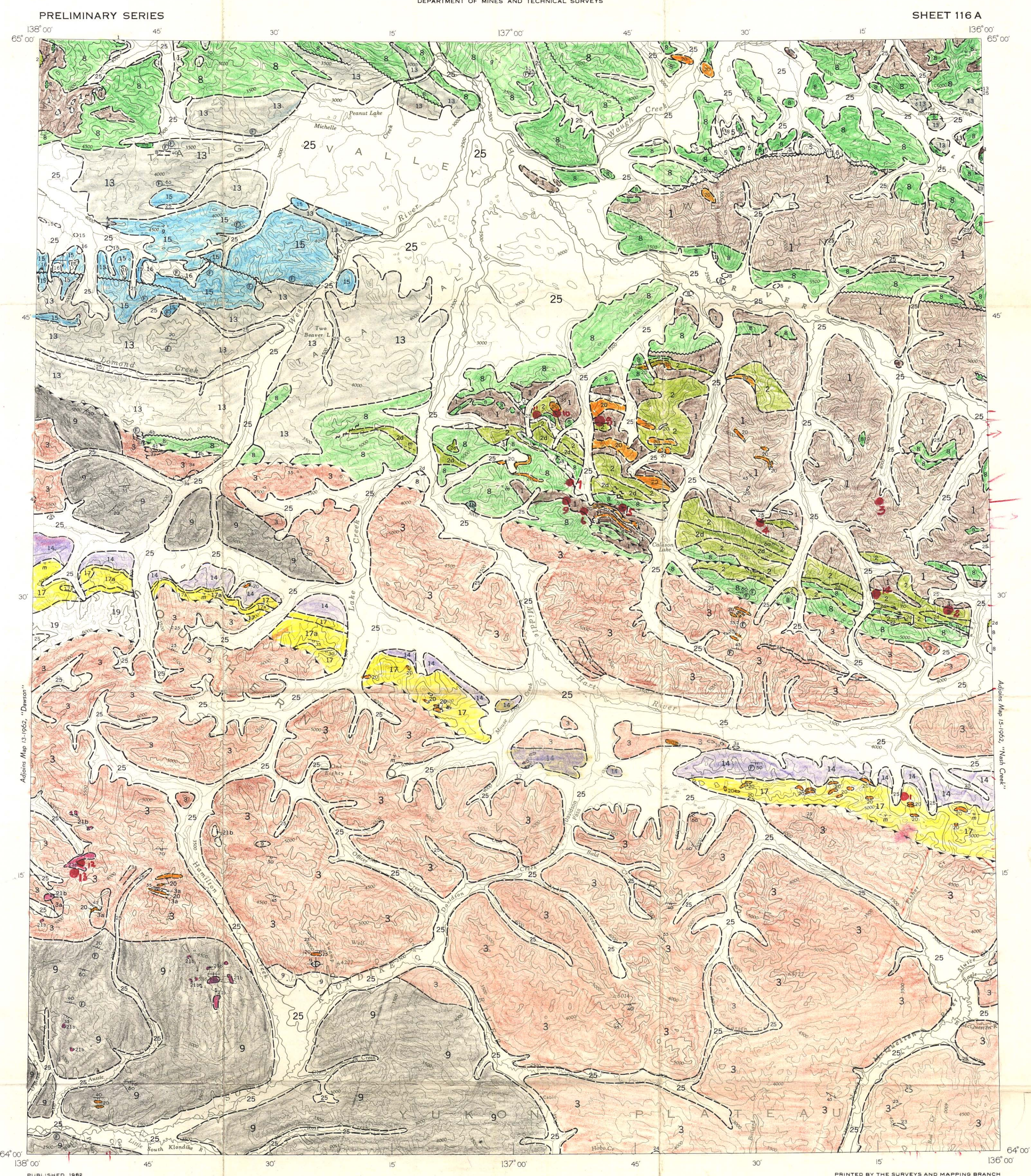


LEGEND

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

- 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
- 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
- JURASSIC**  
**MIDDLE JURASSIC**  
19 Brown weathering, thin-bedded, brown siltstone, commonly limy; minor black shale and sandstone
- 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
- TRIASSIC**  
**UPPER TRIASSIC**  
18 Black weathering, platy, black limy shale and limestone; thin bands of grey to buff weathering limestone
- 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 buff, platy weathering grey limestone, impure sandstone
- 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
- 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
- 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
- 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
- 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)
- 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, silicified 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.



MAP 14-1962  
TO ACCOMPANY PAPER 62-7  
GEOLOGY  
**LARSEN CREEK  
YUKON TERRITORY**

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

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

inches  
centimetres

PRINTED BY THE SURVEYS AND MAPPING BRANCH

LEGEND

Intermittent stream . . . . .

Marsh . . . . .

Contours (interval 500 feet) . . . . .

Height in feet above mean sea-level . . . . .

Base-map by the Surveys and Mapping Branch, 1954

Geographical names subject to revision

MAP 14-1962  
**LARSEN CREEK  
YUKON TERRITORY**

012671