LEGEND

Note: this legend is common to maps 1282A, 1283A and 1284A

NORTHERN PART

CENOZOIC

QUATERNARY

26 — *Unconsolidated glacial and alluvial deposits*

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

22 — *MONSTER FORMATION:* 22a, *brown-weathering, thin-bedded, brown chert-grain sandstone, siltstone, shale, and fine chert-pebble conglomerate*

MESOZOIC

20a — *Orange- to brown-weathering diorite and gabbro; altered equivalents; may be older than 20*

TRIASSIC

16 — *Black-weathering, platy, black limy shale and limestone; thin bands of grey- to buff-weathering limestone*

PERMIAN

15 — *TAHKANDIT FORMATION: white, light grey, and dark grey chert, cherty limestone, and limestone*

CARBONIFEROUS TO PERMIAN

14 — *Buff-weathering, dark grey, thin- to medium-bedded limestone; minor black shale, chert, and chert-pebble conglomerate;* 14a, *dark shale, argillaceous limestone, and thin-bedded brown sandstone; minor chert-pebble conglomerate;* 14b, *black- and silvery-weathering shale and slate; minor platy, buff-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, *Nation River Formation: brown-weathering fine chert-pebble conglomerate and chert-grain sandstone may, in part, be younger Monster Formation (22)*

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 — *ROAD RIVER FORMATION: 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*

PALEOZOIC

8 — *Grey-and buff-weathering dolomite and limestone, mostly medium to thick bedded; minor platy black argillaceous limestone and dolomite (may include some 9, 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

6 — *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 (?)

7 — *Grey-weathering, brown to buff limestone and limestone conglomerate;* 7a, *grey-weathering, medium- to thick-bedded limestone and dolomite (may include some Precambrian)*

PRECAMBRIAN

PROTEROZOIC

2 — *Orange-weathering, platy, grey-green dolomite, dark slate; minor phyllite and quartzite;* 2a, *pink-, orange- and grey-weathering dolomite, grey and maroon shale, white, green and mauve quartzite, minor conglomerate, mottled green and maroon shale and black limestone;* 2b, *buff and orange dolomite, dark shale; minor quartzite limestone and conglomerate;* 2c, *massive cherty and quartzose, grey dolomite; thin-bedded, buff-weathering, grey dolomite; minor black shale and white quartzite;* 2d, *buff-weathering dolomite-boulder conglomerate;* 2e, *dark shale and argillite, buff-weathering, grey siltstone; minor buff- to orange-weathering dolomite*

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*

SOUTHERN PART

QUATERNARY

26 — *Unconsolidated glacial and alluvial deposits*

TERTIARY

25 — *Quartz porphyry*

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

23 — *Poorly consolidated, brown, buff, and grey, arkosic and micaceous sandstone, light and dark shale, poorly sorted conglomerate; minor lignite*

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;* 20a, *may be older*

19 — *Mottled green and maroon shale and brown-weathering, thin-bedded, brown siltstone, commonly limy*

18 — *KENO HILL QUARTZITE: grey and blue-grey, massive quartzite; minor slate and phyllite, commonly graphitic, argillaceous quartzite;* 18a, *thin-bedded and phyllitic quartzite, graphitic and chloritic slate and phyllite; minor limestone and massive quartzite;* 18b, *as 18 but may be older*

JURASSIC

17 — *LOWER SCHIST division: dark grey argillite, slate, and phyllite, commonly graphitic, thin-bedded dark grey quartzite, platy to phyllitic quartzite; minor phyllite and limy quartzite;* 17a, *probable equivalent ?*

TRIASSIC

16 — *Black-weathering, platy, black limy shale and limestone; thin bands of grey- to buff-weathering limestone*

PERMIAN

15a — *Limestone with some chert*

ORDOVICIAN AND SILURIAN

9 — *ROAD RIVER FORMATION: 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*

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 2d 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*

METAMORPHIC ROCKS SOUTHWEST OF TINTINA TRENCH

(occurs only on Map 1284A, Dawson)

E — *Reddish brown-weathering, dark green serpentinized ultrabasic rocks*

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

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

B — *KLONDIKE "SCHIST": 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*

A — *NASINA "SERIES": 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;* Aa, *higher rank metamorphic rocks with biotite and garnet;* Ab, *coarsely crystalline, whitish limestone*

Geological boundary (defined, approximate, assumed)
Bedding, tops known (horizontal, inclined, vertical)
Bedding, tops unknown (dip known)
Bedding, estimated attitudes, may in part be of foliation; horizontal, inclined, vertical (dip: g, gentle; m, medium; s, steep)
Foliation (horizontal, inclined, vertical)
Fault (defined, approximate, assumed)
Thrust fault (teeth in direction of dip: defined, approximate, assumed)
Anticline (defined, approximate; arrow indicates plunge)
Syncline (defined, approximate; arrow indicates plunge)
Anticline, syncline (overturned)
Fossil locality
Mineral occurrence — 24 asb ✕
Goldfield

Diagrammatic cross-sections along lines I-J-K and L-M

Published, 1972
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INDEX MAP

MINERALS

Antimony	Sb	Lead	Pb
Asbestos	asb	Silver	Ag
Coal	C	Tin	Sn
Copper	Cu	Tungsten	W
Gold placer	Au	Zinc	Zn
Iron	Fe		

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

To accompany GSC Memoir 364 by L.H. Green

Geological cartography by the Geological Survey of Canada

GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

MAP 1284A

GEOLOGY

DAWSON

YUKON TERRITORY

Scale 1:250,000

Miles 4 0 4 8 12 Miles
Kilometres 6 0 6 12 18 Kilometres

Magnetic declination 1970 varies from 31°33' easterly at centre of west edge to 33°17' easterly at centre of east edge. Mean annual change decreasing 3.7'

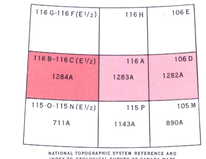
Elevations in feet above mean sea-level

Base-map at the same scale published by the Surveys and Mapping Branch in 1954, 1957 and 1958. Roads were revised by the Geological Survey of Canada for this edition

Any revisions or additional information known to the user would be welcomed by the Geological Survey of Canada

Copies of the topographical edition of this map may be obtained from the Map Distribution Office, Department of Energy, Mines and Resources, Ottawa

The following names have not been approved by the Canadian Permanent Committee on Geographical Names: Trace Hill, McCann Hill, Porcupine Hill, Woodchopper Creek, Monster River, East Blackstone River, Spotted Fawn Gulch



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO GEOLOGICAL SURVEY OF CANADA MAPS

DAWSON
YUKON TERRITORY

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