GEOLOGICAL SURVEY OF CANADA — COMMISSION GÉOLOGIQUE DU CANADA

DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES

LEGEND

CENOZOIC

QUATERNARY

- **Qu** — *Unconsolidated sediments; till, sand, gravel and silt*

TERTIARY

EOCENE

MIDDLE EOCENE

- **Ekm** — *KLONDIKE MOUNTAIN FORMATION: heterogeneous non-volcanic epiclastic breccia*
- **Ec** — *CORYELL INTRUSIONS: syenite, quartz monzonite; minor granite and pulaskite*
- **Emi** — *MARRON FORMATION: INTRUSIVE ROCKS;* Emi4 , *undivided dykes, largely intrusive equivalents of divisions* Emv1,2 *and 3 but some of unknown affinity;* Emi3 , *diorite and diorite porphyry (equivalent to lavas of division* Emv1*);* Emi2 , *syenite and diorite (equivalent to lavas of division* Emv2*);* Emi1 , *alkaline syenite, largely rhomb-porphyry (equivalent to lavas of division Emv)*
- **Emv** — *LAYERED ROCKS (largely extrusive)* *Division* Emv3*;* Emv3a, *andesite;* Emv3b, *tuff* *Division* Emv2*;* Emv2a, *andesite and trachyandesite;* Emv2b, *tuff* *Division* Emv1*;* Emv1a, *sodic trachyte in part undersaturated and minor phonolite;* Emv1b *related rocks characterized by flow breccias and intercalated pyroclastics;* Emv1c, *related (?) trachyte*
- **Ekrs** — *KETTLE RIVER FORMATION: feldspathic and lithic tuffaceous sandstone and siltstone; shale and conglomerate; minor acidic and intermediate pyroclastic and flow rocks*

CRETACEOUS OR TERTIARY

- **KTi** — *Quartz-feldspar and quartz porphyry; minor porphyritic quartz diorite;* KTi1, *felsite*

MESOZOIC

CRETACEOUS (?)

- **Kvqm** — *VALHALLA INTRUSIONS: granite and quartz monzonite, mainly porphyritic, some pegmatitic;* Kvqm1, *mainly pegmatite*

JURASSIC AND/OR CRETACEOUS

- **JKgd** — *NELSON INTRUSIONS: granodiorite; minor quartz diorite and diorite*

JURASSIC (?)

- **Jum** — *Peridotite, pyroxenite, dunite, serpentinite;* Jum1, *pyroxenite*
- **Js** — *Siltstone; minor phyllite, sandstone and conglomerate*
- **Jph** — *Black phyllite*
- **Jv** — *Flow breccia and massive greenstone;* Jv1 , *basal (?) conglomerate with limestone clasts;* Jv2 , *flow breccia, locally with some interbedded limestone*

TRIASSIC

UPPER TRIASSIC

- **uTsv** — *White limestone, black limestone, grey, black, and buff shale, limestone breccia, purple or maroon agglomerate, commonly with limestone clasts;* uTsv1, *mainly limestone;* uTsv2 , *mainly agglomerate;* uTsv3 , *green cherty argillite*

MIDDLE AND (?) LOWER TRIASSIC

- **mTl** — *BROOKLYN FORMATION (*mTs–mTl*)* mTl1, *limestone, mainly with some chert grains; skarn, minor chert sharpstone conglomerate, siltstone, and shale;* mTl2, *mainly skarn*
- **mTs** — mTs1, *sharpstone conglomerate with mainly chert clasts; local chert sandstone, and minor black argillite;* mTs2 , *mainly buff chert sandstone with beds of sharpstone conglomerate and chert grit;* mTs3 , *green argillite;* mTs4 , *black argillite;* mTs5 , *limestone conglomerate*
- **mTr** — *RAWHIDE FORMATION: black siltstone; minor black argillite and chert sharpstone conglomerate*

PALEOZOIC

CARBONIFEROUS OR PERMIAN

- **CPkh** — *KNOB HILL GROUP: massive chert, greenstone, and amphibolite; minor limestone or marble; locally tan or black argillite, fine-grained quartzite, conglomerate;* CPkh1, *mainly chert;* CPkh2, *mainly greenstone;* CPkh3 , *mainly amphibolite;* CPkh4, *limestone or marble;* CPkh5, *quartzite;* CPkh6, *tan to green shale and metasiltstone*
- **CPal** — *ATTWOOD GROUP (*CPas–CPal*) Limestone, some with thin chert interbeds*
- **CPas** — *Black to grey bedded argillite; locally some grey chert and cherty siltstone; minor chert sharpstone conglomerate*

PRE-CARBONIFEROUS

- **Pm** — Pm1, *quartz-chlorite schist, quartz-biotite-muscovite schist, greenstone, bedded chert with argillaceous partings; minor limestone;* Pm2, *quartz-biotite schist, hornfels, amphibolite, minor marble. May not be equivalent to unit* Pm1*. Both* Pm1 *and* Pm2 *probably include some metamorphosed unit* CPkh

PROTEROZOIC (?)

- **Pa** — *Amphibolite; minor greenstone and bedded chert*

AGE UNKNOWN

- **Pm** — *Paragneiss, migmatite;* Pm1 , *layered granitoid gneiss;* Pm2 , *granitoid gneiss;* Pm3 , *amphibolite with pegmatite or aplite;* Pm4, *mafic layered gneiss;* Pm5, *layered amphibole-bearing gneiss, silicified, locally* **graphitic**

Rock outcrop, area of outcrop
Geological boundary (defined, approximate, assumed)
Bedding; tops known (horizontal, inclined, vertical, overturned)
Bedding, tops unknown (inclined, vertical)
Primary flow structures in igneous rock, layering in igneous rocks (inclined, vertical)
Schistosity (inclined, vertical, dip unknownn)
Second generation (inclined)
Lineation (inclined , inclined but plunge unknown)
Fault (defined, approximate, assumed)
Thrust fault (teeth in direction of dip; defined, assumed)
Axial trace of anticline (approximate)
Axial trace of syncline (approximate)
Glacial striae (direction of ice movement known, unknown)
Fossil locality, fauna described (F12)
Fossil locality, unidentifiable fauna (?)
Shaft
Adit
Line of section C — D

MINERAL PROPERTIES

1 Yankee Boy
2 City of Paris (Lexington)
3 Mabel
4 No. 7
5 Sappho
6 American Boy
7 Ruby
8 Combination
9 Skomac (formerly Last Chance)
10 Lead King
11 Sunnyside
12 Winner
13 Keno
14 Athelstan
15 Ironclad
16 Winnipeg
17 Golden Crown
18 Rawhide
19 Snowshoe (Granby Mining Co. Ltd.)
20 Gold Drop
21 Monarch (Granby Mining Co. Ltd.)
22 Victoria (Granby Mining Co. Ltd.)
23 Knob Hill–Old Ironsides (Granby Mining Co. Ltd.)
24 Idaho (Granby Mining Co. Ltd.)
25 Stemwinder
26 Brooklyn
27 Skylark
28 Crescent
29 Last Chance
30 Providence
31 Elkhorn
32 Gold Bug
33 Greyhound
34 Buckhorn
35 Marguerite
36 Sunset
37 Mother Lode
38 Butcher Boy
39 Morrison
40 Big Copper
41 King Solomon
42 Oro Denora
43 Emma
44 Mountain Rose
45 R. Bell
46 B.C.
47 Rathmullen
48 Morning Star
49 Gold Drop
50 Dentonia (formerly Jewel)
51 Amanda (Amandy)
52 Texas
53 Imperial
54 Riverside

Geology by H.W. Little, 1963-65, R.I. Thorpe, 1963, and J.W.H. Monger, 1965. Published data by B.N. Church (1970), mainly south of McCarren Creek Fault, is incorporated in this map

To accompany G.S.C. Paper 79-29

Additional mining information was added by the Geological Survey of Canada 1981

Geological cartography by the Geological Survey of Canada

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

Base map at the same scale published by the Surveys and Mapping Branch in 1976

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

Approximate magnetic declination 1981, 20°36' East decreasing 9.1' annually

Elevations in feet above mean sea level

Canada

Diagrammatic cross-sections along lines A-B-C, D-E-F-G

Copies of this map may be obtained from the Geological Survey of Canada:
601 Booth Street, Ottawa, Ontario K1A 0E8
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INDEX MAP

MAP 1500A
GEOLOGY
GREENWOOD
BRITISH COLUMBIA

Scale 1:50 000

Kilometres 1 0 1 2 3 4 Kilometres

Universal Transverse Mercator Projection

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GEOLOGICAL SURVEY
COMMISSION GÉOLOGIQUE

Printed by the Surveys and Mapping Branch. Published 1983

82 E/10	82 E/9	82 F/12
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GREENWOOD
BRITISH COLUMBIA
1500A

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