GEOLOGICAL LEGEND

LAYERED ROCKS

CENOZOIC

PALEOGENE

PTs **SIFTON FORMATION:** *Shale, siltstone, sandstone, conglomerate; non-marine, fault-trough deposits.*

MESOZOIC

MIDDLE - UPPER JURASSIC

JBL **BOWSER LAKE GROUP:** *Marine and non-marine shale, siltstone, sandstone, conglomerate.*

UPPER TRIASSIC - LOWER JURASSIC

ŦJT **TAKLA GROUP:** *Andesitic to basaltic augite-feldspar porphyritic volcanic flows, breccia, tuff, volcaniclastics, sediments.* (Quesnellia terrane)

UPPER TRIASSIC

Ŧs **STUHINI GROUP:** *Andesitic to basaltic augite-feldspar porphyritic flows, breccia, tuff, volcaniclastics.* (Stikinia terrane)

DEVONIAN - TRIASSIC

DŦ *Volcaniclastic and pyroclastic rocks, basaltic to dacitic volcanics, chert, limestone.* (Quesnellia terrane, Harper Ranch subterrane)

DEVONIAN - PERMIAN

DP *Basaltic to rhyolitic volcanic and pyroclastic rocks; limestone, shale, schist, volcanic sandstone, chert.* (Stikinia terrane)

DEVONIAN - CARBONIFEROUS

DC *Limestone, dolostone, sandy dolostone, sandstone, shale.* (Cassiar terrane)

MIDDLE DEVONIAN - MISSISSIPPIAN

DME **EARN GROUP:** *Black or blue-grey siliceous shale or slate, black quartz sandstone and siltstone, cherty argillite; locally calcareous or baritic. Minor chert-pebble conglomerate. May include younger and older units locally.* (Ancestral North America)

CAMBRIAN - DEVONIAN

ЄDC *Undifferentiated* **Kechika, Road River, Sandpile** *groups, and Devonian units.* (Cassiar terrane)

UPPER CAMBRIAN - LOWER DEVONIAN

ЄDKR *Undifferentiated* **Kechika** *and* **Road River** *groups.* (Ancestral North America)

ORDOVICIAN - LOWER DEVONIAN

OSD **ROAD RIVER GROUP:** *Siltstone, dolomitic siltstone, slate; lesser limestone, graptolitic shale; minor volcanics, chert. Includes thin sections of* **Kechika Group** *locally.* (Ancestral North America)

UPPER CAMBRIAN - LOWER ORDOVICIAN

ЄOK **KECHIKA GROUP:** *Limestone, shale, calcareous phyllite, slate, graptolitic shale, rare tuffaceous layers.* (Ancestral North America)

LOWER - UPPER CAMBRIAN

Є *Generally unnamed, but includes rocks equivalent to Lower Cambrian* **Gog Group**. *Intervals of sandstone, siltstone, slate, quartzite, boulder conglomerate (Middle Cambrian), massive grey limestone (Middle and Upper Cambrian). Archeocyathid-bearing limestone in Gog-equivalent, lower part. Includes sections of* **Kechika Group** *and* **Hyland Group** *locally.* (Ancestral North America)

LOWER CAMBRIAN

lЄA **ATAN GROUP:** *Quartzite, sandstone, phyllite, overlain by archeocyathid-bearing limestone. May include Upper Proterozoic* **Ingenika Group** *locally.* (Cassiar terrane)

lЄG **GOG GROUP:** *Orthoquartzite and feldspathic quartzite, sandstone, slate, with lenses of archeocyathid-bearing limestone. May include Upper Proterozoic* **Hyland Group** *locally.* (Ancestral North America)

PROTEROZOIC

UPPER PROTEROZOIC - LOWER CAMBRIAN

PЄHG *Undifferentiated* **Hyland** *and* **Gog** *groups.* (Ancestral North America)

UPPER PROTEROZOIC

uPI **INGENIKA GROUP: Swannell Formation:** *interbedded quartz-feldspar grit, sandstone, siltstone, phyllite, slate.* **Tsaydiz Formation:** *calcareous phyllite, limestone, phyllite.* **Espee Formation:** *limestone.* **Stelkuz Formation:** *sandstone, phyllite.* (Cassiar terrane)

uPH **HYLAND GROUP:** *Phyllite, slate, siltstone, sandstone.* (Ancestral North America)

INTRUSIVE ROCKS

MESOZOIC

MID-CRETACEOUS

mKqC **CASSIAR BATHOLITH:** *Quartz monzonite, granodiorite. Called* **Thudaka Batholith** *southeast of Thudaka Fault.* (Cassiar terrane)

MIDDLE JURASSIC

MJdgT **THREE SISTERS PLUTONIC SUITE:** *Hornblende-biotite diorite, quartz monzodiorite, granodiorite.* (Stikinia terrane)

EARLY JURASSIC

EJgP **PITMAN BATHOLITH:** *Quartz diorite and granodiorite, generally foliated.* (Quesnellia terrane)

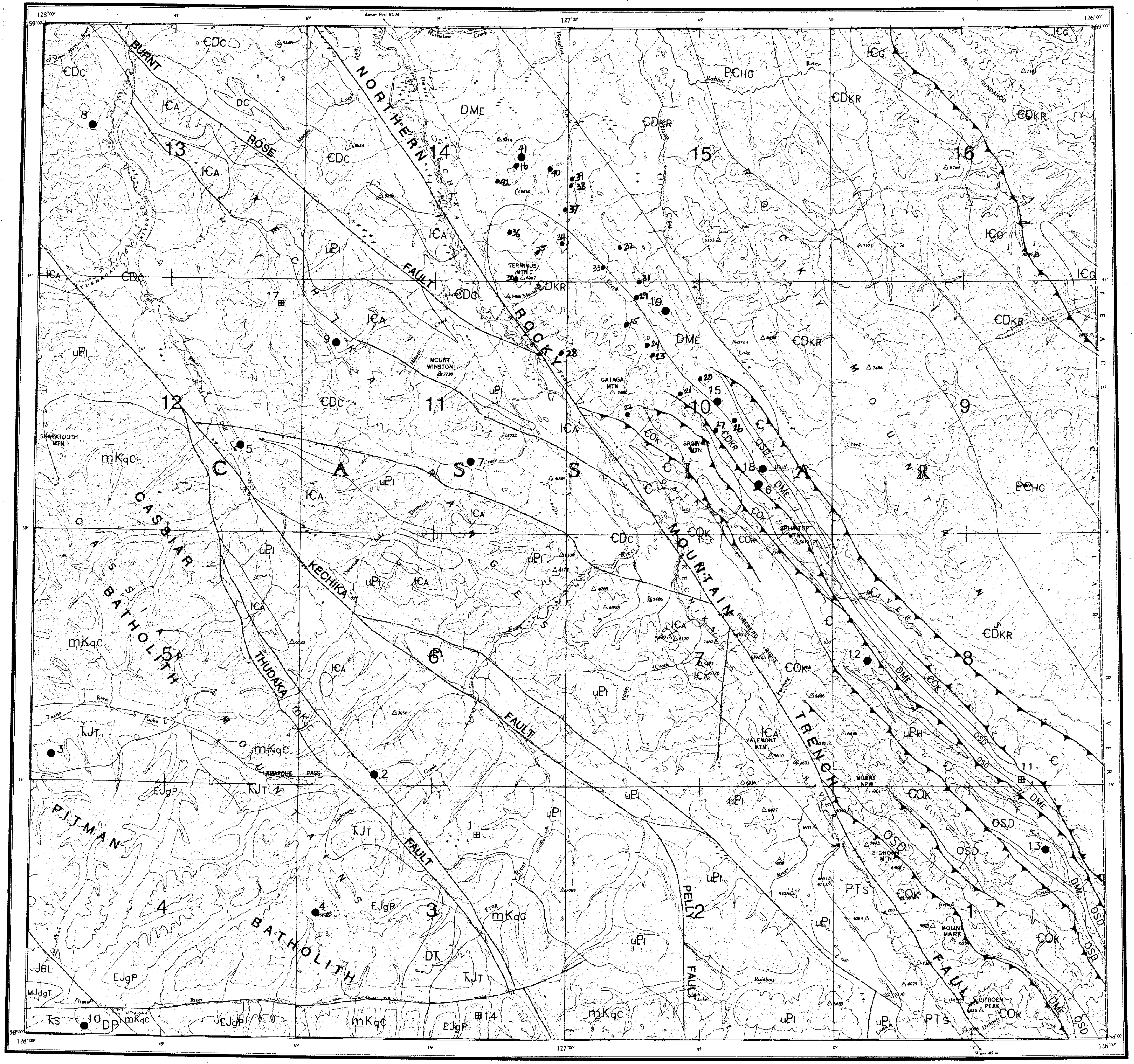
Geological map adapted from:

Gabrielse, H., 1962: Kechika, British Columbia, *Geological Survey of Canada* Map 42-1962, 1:253 440.

Wheeler, J.O. and McFeely, P. (compilers), 1991: Tectonic Assemblage Map of the Canadian Cordillera and adjacent parts of the United States of America, *Geological Survey of Canada* Map 1712A, 1:2 000 000.

Ferri, F., Nelson, J. and Rees, C., 1995: Preliminary Geology of the Gataga River area, British Columbia, *B.C. Ministry of Energy, Mines and Petroleum Resources*, Open File 1995-4, 1:50 000.

Geology is simplified and positions of contacts are approximate. In the case of an apparent disagreement between an occurrence's geological location on the map and its stratigraphic setting given in the MINFILE documentation, the latter should be given priority.



BC
Ministry of Energy, Mines and Petroleum Resources

1895 - 1995
100
YEARS OF GEOLOGICAL SURVEYING

Geological Survey Branch

MINFILE MAP
NTS 094L
KECHIKA

This MINFILE release researched and compiled by:
C.J. Rees

Date Revised: **March 1995**

Scale 1:250 000

0 5 10 15 20 25
kilometres

Total Number of Mineral Occurrences: 19

Status

⚒	Producer
⊗	Past Producer
■	Developed Prospect
⊞	Prospect
●	Showing

130° 60°			124° 60°
	104P	94M	94N
	104I	94L	94K
	104H	94E	94F
57° 130°			57° 124°

MAP LEGEND - 094L

MINFILE NUMBER	NAME	COMMODITIES
001	LINDA	PB AG ZN CU
002	OH	PB AG
003	TUCHO	CU
004	JACKSTONE CREEK	CU
005	DALL LAKE	CU
006	BLACK WEDNESDAY	CU
007	DENETIAH CREEK	CU PB
008	WHITE BULL	ZN BA
009	RAR 4	FL RS LA CE
010	MACDUCK	ZN
011	ROUGH	ZN BA PB CU
012	SYNC	PB CU
013	X	BA ZN
014	FROG 1	AU AG CU
015	SOLO	BA
016	SMOKE	ZN
017	KECHIKA YTTRIUM	YR RS PP FL DY GD PB MO TH
018	BLUFF CREEK	BA ZN NI
019	MAT	BA
020	JN95-4-1	BA
021	CRE95-9-9	BA
022	FFE95-5-13-2	PB ZN AG
023	BROKEN BIT BARITE	BA SR
024	FFE95-12-2	BA SR
025	FFE95-27-7	PB ZN AG BA
026	FFE94-29-13	BA CU AG SR
027	FFE94-18-8	BA
028	FFE95-18-13	CU
029	FFE95-23-7	BA
030	JN95-7-4	CU
031	CRE95-24-7	BA
032	JN95-8-1	BA
033	JN95-14-1	BA
034	JN95-10-10	BA CU ZN
035	FFE95-29-11	BA ZN

094L

036	FFE95-47-8	BA
037	CRE95-38-1-2	BA SR
038	CHIEF	BA ZN
039	FFE95-46-1	BA SR
040	JN95-13-8	BA
041	HORNS	BA
042	FFE95-41-3	BA

COMMODITY LEGEND

CODE INDEX

AG	Silver
AU	Gold
BA	Barite
CE	Cerium
CU	Copper
DY	Dysprosium
FL	Fluorite
GD	Gadolinium
LA	Lanthanum
MO	Molybdenum
NI	Nickel
PB	Lead
PP	Phosphate
RS	Rare Earths
TH	Thorium
YR	Yttrium
ZN	Zinc
SR	Strontium

COMMODITY INDEX

Barite	BA
Cerium	CE
Copper	CU
Dysprosium	DY
Fluorite	FL
Gadolinium	GD
Gold	AU
Lanthanum	LA
Lead	PB
Molybdenum	MO
Nickel	NI
Phosphate	PP
Rare Earths	RS
Silver	AG
Thorium	TH
Yttrium	YR
Zinc	ZN