GEOLOGICAL LEGEND

QUATERNARY
PLEISTOCENE AND RECENT

Qal — *Unconsolidated glacial, fluvial and alluvial deposits*

TERTIARY
EOCENE

KAMLOOPS GROUP

EKv — *Andesite, basalt, dacite, trachyte flows, breccias and tuffs*

EKs — *Conglomerate, sandstone, shale; minor coal and tuff*

QUESNEL TERRANE

NICOLA GROUP
UPPER TRIASSIC AND(?) LOWER JURASSIC

TrJNv — *Augite-phyric basalt to andesite flows, tuffs and breccias*

UPPER TRIASSIC

uTrNe — *Eastern volcanic facies: mafic breccia and tuff with augite and hornblende-phyric clasts; local intercalated argillite*

uTrNs — *Shale, argillite, siltstone, phyllite, tuff and calcareous pelite; minor limestone, conglomerate, greenstone and chloritic phyllite*

MISSISSIPPIAN TO TRIASSIC
HARPER RANCH AND(?) NICOLA GROUPS

MTrm — *Argillite, phyllite, volcanic sandstone, semischist, meta-augite porphyry and chlorite schist; local carbonate*

DEVONIAN TO PERMIAN
HARPER RANCH GROUP

DPH — *Argillite, cherty argillite, siltstone, volcanic and chert-grain sandstone; chert-pebble conglomerate; volcaniclastic rocks of mafic to felsic composition; minor carbonate*

KOOTENAY TERRANE - ADAMS LAKE BELT

EAGLE BAY ASSEMBLAGE (Msc to HPEB)

MISSISSIPPIAN

Msc — **Slate Creek unit (EBP):** *dark grey phyllite and slate with interbedded siltstone, sandstone and grit; lesser amounts of conglomerate, limestone, dolostone, sericite-chlorite-quartz schist, quartzite and metatuff*

DEVONIAN

Dog — *Granodioritic orthogneiss*

Dsb — **Skwaam Bay unit (EBA):** *light grey sericite quartz phyllite, sericite-chlorite-quartz phyllite and fragmental phyllite derived from felsic to intermediate volcanic and volcaniclastic rocks; lesser amounts of dark grey phyllite and siltstone, green chloritic phyllite, sericitic quartzite and pyritic chert (exhalite?);* **Dsbi** *- includes abundant orthogneiss of unit* **Dog**

DEVONIAN AND/OR OLDER(?)

Pum — *Serpentinite*

Pdr — **Dixon Ridge unit (EBM):** *vesicular and pillowed metabasalt, greenstone and chlorite schist; minor amounts of bedded chert, siliceous phyllite and fine-grained quartzite*

Pwc — **Woolford Creek unit:** *chlorite-sericite-quartz schist, chlorite schist, actinolite schist and greenstone; may in part be equivalent to unit* **IPSs**

LOWER PALEOZOIC

IPfl — **Forest Lake unit (EBS):** *grey and green phyllitic sandstone and grit, phyllite, chlorite-sericite-quartz schist and quartzite; lesser amounts of dark grey phyllite, limestone, dolostone, conglomerate, green chloritic phyllite, greenstone, pillowed metabasalt, sericite quartz phyllite and feldspathic sericite quartz phyllite (metatuff)*

LOWER CAMBRIAN

ICjl — **Johnson Lake unit (EBG):** *calcareous chlorite schist, fragmental schist and greenstone derived largely from mafic to intermediate volcanic and volcaniclastic rocks; lesser amounts of limestone and dolostone; minor amounts of quartzite, grit, grey phyllite, siltstone and polymict conglomerate;* **ICjls** *- grey siliceous and/or graphitic phyllite, calcareous phyllite, quartzite, limestone and calcsilicate rock*

HADRYNIAN(?) TO PALEOZOIC

HPEB — *Undivided quartzite, micaceous quartzite, siliceous phyllite, garnet-mica-quartz schist, greenstone, chloritic phyllite, chlorite schist, limestone, argillite, slate and conglomerate; mainly equivalent to unit* **ICjl**; **HPEBc** *- white crystalline limestone that may be equivalent to the Tshinakin limestone member of unit* **ICjl**

MOUNT IDA ASSEMBLAGE

ORDOVICIAN

Oog — **Little Shuswap orthogneiss:** *leucocratic granite gneiss, quartz monzonite gneiss and granodiorite gneiss; minor diorite gneiss*

LOWER PALEOZOIC

IPS — **Sicamous Formation:** *calcareous black phyllite, graphitic phyllite, dark grey limestone, argillaceous and phyllitic limestone;* **IPSs** *- variably schistose epidote-actinolite-quartz and garnet epidote skarn; lesser amounts of chloritic schist and sericite quartz schist (Sicamous Formation includes units* **EBL** *and* **EBK** *of the Eagle Bay assemblage)*

IPT — **Tsalkom Formation:** *greenstone and chloritic phyllite; minor amphibolite, black phyllite, limestone, marble, conglomerate and serpentinite*

HADRYNIAN AND/OR PALEOZOIC

HPSC — **Silver Creek Formation:** *pelitic and semipelitic schist, quartzite, micaceous quartzite and calcareous quartzite; lesser limestone, marble and amphibolite*

SHUSWAP ASSEMBLAGE
PROTEROZOIC AND/OR PALEOZOIC

PPS — *Undivided quartzofeldspathic gneiss, biotite quartz schist (commonly with sillimanite, kyanite, garnet or staurolite), amphibolite, quartzite, marble and skarn; abundant and locally dominant pegmatite, muscovite granite, granodiorite, and granodioritic to tonalitic gneiss that may range from Paleozoic to Tertiary in age;* **PPSm** *- marble and diopsidic marble with lesser calcsilicate gneiss and amphibolite;* **PPSmh** *- marble and hornblende gneiss;* **PPSq** *- quartzite*

INTRUSIVE ROCKS

TERTIARY
LATE PALEOCENE TO EARLY EOCENE

PEg — *Leucogranite and pegmatite*

CRETACEOUS AND/OR TERTIARY(?)

KTg — *Leucocratic biotite and biotite muscovite granite, quartz monzonite, pegmatite and aplite; locally includes granitic gneiss and/or abundant screens of country rock, in whole or in part may be equivalent to unit* **PEg**

CRETACEOUS(?)

Kgd — *Granodiorite, granite, quartz monzonite; minor diorite, quartz diorite, gabbro*

Kdi — *Diorite*

Ksy — *Syenite and monzonite*

Geological map and legend compiled from:

Bossachin, R. and Harrap, R.M. (1968): Stratigraphy and structure of the Monashee Complex and overlying rocks adjacent to the Trans-Canada Highway, west of Revelstoke, B.C.; in Current Research, Part E, *Geological Survey of Canada*, Paper 68-1E, pp. 19-23.

Coleman, V.J. (1989): The Caribou duplex at the southern boundary of the Monashee Complex, southern British Columbia; in Current Research, Part E, *Geological Survey of Canada*, Paper 89-1E, pp. 89-93.

Johnson, B.J. (1990): Geology Adjacent to the Western Margin of The Shuswap Metamorphic Complex; *B.C. Ministry of Energy, Mines and Petroleum Resources*, Open File 1990-30.

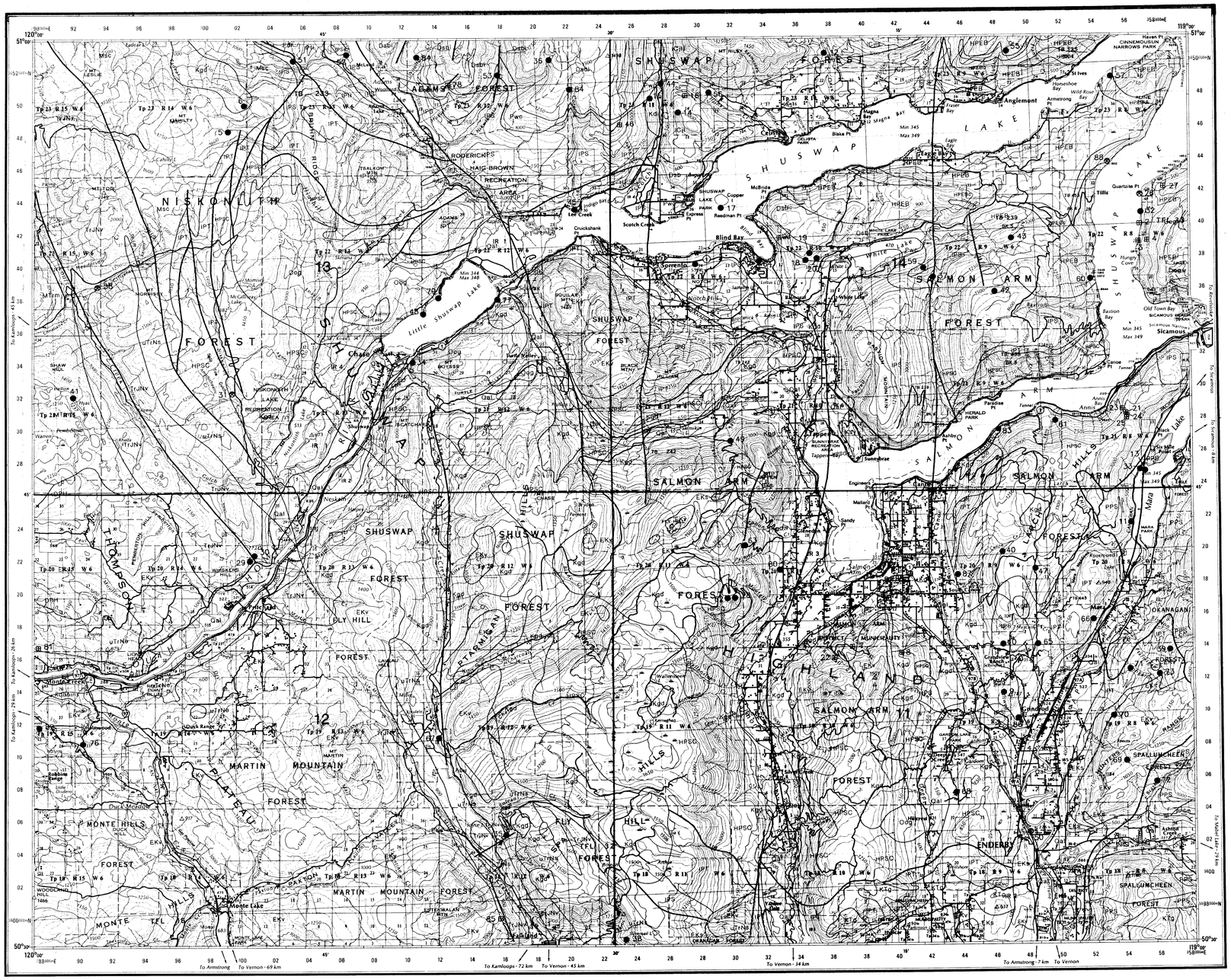
Jones, A.G. (1959): Vernon Map Area, British Columbia; *Geological Survey of Canada*, Memoir 296.

Okulitch, A.V. (1979): Geology, Thompson-Shuswap-Okanagan Region, South-Central British Columbia; *Geological Survey of Canada*, Open File 637, Scale 1:250,000.

Okulitch, A.V. (1989): Revised stratigraphy and structure in the Thompson-Shuswap-Okanagan map area, southern British Columbia; in Current Research, Part E, *Geological Survey of Canada*, Paper 89-1E, pp. 51-60.

Okulitch, A.V. and Woodsworth, G.J. (1977): Geology, Kootenay River, British Columbia, Alberta, United States; *Geological Survey of Canada*, Open File 481, Scale 1:1,000,000.

Positions of all geological 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 082LNW
SHUSWAP LAKE

This MINFILE release researched and compiled by:
G. Owsiacki

Date Revised: **August 1995**

Scale 1:100 000

0 2 4 6 8 10 kilometres

Total Number of Mineral Occurrences: 88

Status
- Producer
- Past Producer
- Developed Prospect
- Prospect
- Showing

092P	082M	082N
092I	082L	082K
092H	082E	082F

MAP LEGEND - 082LNW

MINFILE NUMBER	NAME	COMMODITIES
001	FALKLAND	GY AN
002	BLUENOSE (NORTH)	CU
003	BLUENOSE (SOUTH)	CU ZN
004	BLUENOSE (UPPER)	CU
005	CAHILTY 1	PB ZN AG CU AU
006	CAHILTY 7	PB CU
007	BONNIE BRAE	AG PB ZN
008	MOUNT IDA	AG PB ZN AU PT
009	SUGAR LOAF	PB AU
010	GRANDVIEW	PB AG AG
011	ANNIE LAWRANCE	AG PB
012	ONYX	PB AG
013	VICTORY	ZN AG
014	SHU	AU
015	IRON POT	PB ZN CU AU NI
016	SCOTCH CREEK	AU AG PB CU
017	COPPER ISLAND	CU
018	COPPER CAP	CU
019	COPPER CHIEF	CU
020	VIMY	CU AG AU
021	ANNIS (MAIN)	PB ZN AG CU
022	SUNSET	AG PB ZN CU AU SN SB PT
023	ANNIS 8	PB ZN AG CU
024	ANNIS 5	PB ZN AG CU
025	ANNIS 1	PB ZN AG CU
026	QUARTZITE POINT	SI
027	HOPEFUL	SI
028	GALAXY	NI CU
029	CB	CU
030	K	CU
031	TG	CU PB ZN - WO
032	THUNDERBOLT	AU
033	BLACK POINT	MG
034	TC	FL
035	BUDGET	CU
036	NIK	CU ZN
037	SABRE	CU MO
038	AB 10	CU
039	ZETT	NI
040	BUFF	MO
041	HV 9	CU
042	SWORD	CU
043	SCIMITAR	CU
044	SILVER QUEEN	PB ZN AG
045	RAVEL	PB ZN
046	SCOTCH	CU ZN PB
047	GOAT 1	SI PB MO
048	LITTLE SHISHWAP LAKE	FL
049	SCOTCH CREEK	FL
050	ENDERBY	CY
051	SERPENT	PB ZN CU
052	STEEP 3	PB AU CU
053	NIK (EAST)	CU PB ZN
054	AQ	CU ZN
055	UGLE	AB AG
056	MARA CREEK	FL
057	ALINE	PB ZN
058	MCGILLIVRAY CREEK	AU
059	SABRE NORTH	CU MO
060	SHORELINE	CU PB
061	ROADSIDE	CU ZN PB
062	JIN JEN	UR
063	SUNNYBANK	UR
064	BLIND BAY	LS
065	BEACH	CU PB ZN
066	MARA	CU PB
067	PILLAR LAKE	CY
068	ELMER	MI
069	LOGAN GULCH	CL
070	MARA CREEK	CL
071	MARA COPPER	CU
072	SILVER CREEK	AG
073	MARA 1	ZN
074	AB 9	CU
075	SORRENTO LIMESTONE	LS
076	ROBBINS CREEK	AE GS
077	SOGUS A	AE SD
078	SOGUS 1	CU ZN AG AU
079	ROCKY POINT	BI
080	TAPPEN	GY
081	POOLEY LAKE	AU CU
082	BARNES LAKE	HM SD
083	CANOE	KD
084	WOOLFORD CREEK	CU PB
085	GRIN	AG
086	GRINROD LIMESTONE	LS
087	SALMON ARM LIMESTONE	LS
088	SHUSWAP LIMESTONE	LS

COMMODITY LEGEND

CODE INDEX		COMMODITY INDEX	
AE	Agate	Agate	AE
AG	Silver	Anhydrite	AN
AN	Anhydrite	Antimony	SB
AU	Gold	Bismuth	BI
BI	Bismuth	Clay	CY
CL	Coal	Coal	CL
CU	Copper	Copper	CU
GY	Gypsum	Diamond	DI
FD	Feldspar	Fluorite	FL
FL	Fluorite	Gemstones	GS
GS	Gemstones	Gold	AU
GY	Gypsum	Gypsum	GY
HM	Hydromagnesite	Hotspring	HS
HS	Hotspring	Hydromagnesite	HM
LS	Limestone	Kaolin	KD
MI	Mica	Limestone	LS
MO	Molybdenum	Mica	MI
NI	Nickel	Molybdenum	MO
PB	Lead	Nickel	NI
PT	Platinum	Platinum	PT
SB	Antimony	Silica	SI
SI	Silica	Silver	AG
SD	Soda	Soda	SD
SN	Sodium Carbonate	Sodium Carbonate	SN
UR	Uranium	Tin	SN
WO	Tungsten	Tungsten	WO
ZN	Zinc	Uranium	UR
		Zinc	ZN

OCCURRENCES DELETED FROM PREVIOUS MAP RELEASES

OLD NUMBER	OLD NAME	REASON FOR DELETION
082LNW014	METAL CREST	Located in 082M
082LNW033	COPPER NUGGET	Same as 082LNW018,19,20
082LNW055	SCOTCH CREEK	Located in 082M
082LNW073	SWAN	Same as 082LNW035
082LNW078	ADAMS LAKE	Located in 082M
082LNW079	MT. IDA CHROME	Located in 082LSW
082LNW084	PILLAR LAKE	Same as 082LNW067