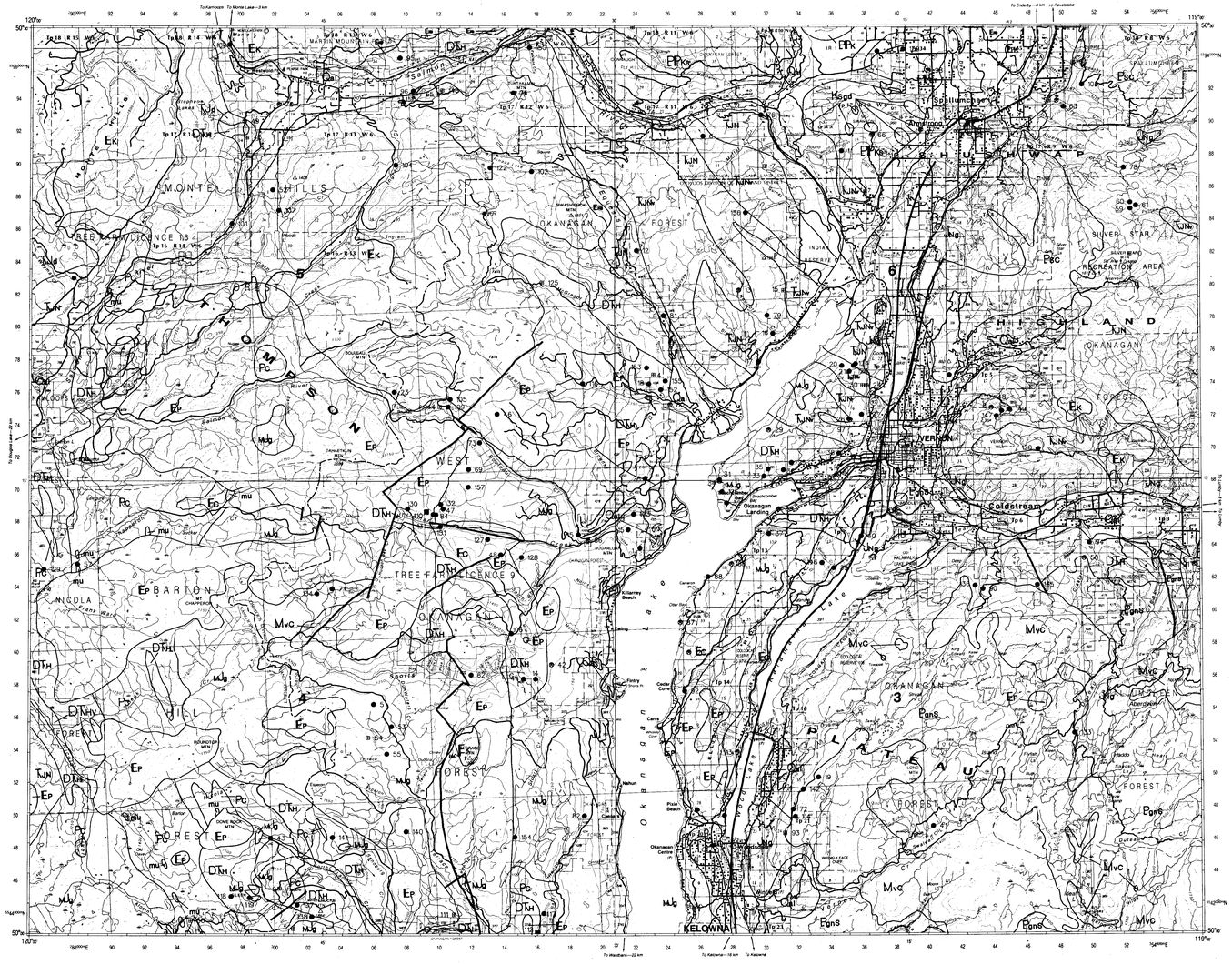

GEOLOGICAL LEGEND

QUATERNARY DEPOSITS

Qal — Unconsolidated glaciofluvial deposits, till and alluvium

MIOCENE/PLIOCENE

MvC — **Chilcotin Group**: Non-marine 'plateau basalts'

EOCENE

EK — **Kamloops Group**: Mostly andesitic and basaltic volcanics and associated fluvial and lacustrine sediments (EKs)

EP — **Penticton Group**: Mixed alkalic and calcalkaline transtensional volcanics and associated fluvial and lacustrine sediments; includes **Marron, Kettle River** and **Springbrook** formations

TRIASSIC/JURASSIC

TrJN — **Nicola Group**: Mostly basic lavas and pyroclastics and sedimentary rocks including argillites and some limestones

TrJNv — **Nicola Group volcanics**: Large mappable areas of intermediate and basic lavas and pyroclastic rocks, feeder intrusions, greenstones and chloritic schist

PERMIAN AND OLDER

PC — **Chapperon Group**: Mixed assemblage of metamorphosed siliceous and calcareous argillites and greenschists of volcanic and sedimentary origin and minor serpentinized ultramafic rocks

DEVONIAN/TRIASSIC

DTrH, DTrHv — **Harper Ranch Group**: Basement to Quesnellia comprising hemipelagic tuffaceous mudstone, chert, limestone and arc derived sandstone and conglomerate

PROTEROZOIC/PALEOZOIC

PPK — **Kootenay Assemblage**: including **Eagle Bay, Sicamous (PPKs)** and **Tsalkom (PPK1) formations** that comprise quartz-mica schist, chloritic schist, phyllite, amphibolitic units and limestone

PgnS — **Shuswap Terrane**: part of Monashee complex affected by Tertiary metamorphism; includes crystalline schists, gneisses, stratified paragneiss

PSC — **Silver Creek Formation**: Pericratonic rocks that include quartz sericite, biotite schist and gneiss

INTRUSIVE ROCKS

EOCENE

EC — **Coryell Intrusions**: Monzonite, syenite and minor granitic stocks; feeder dikes to Marron volcanics

CRETACEOUS

KSgd — **Salmon Arm Intrusions**: Granodiorite, granite and quartz monzonite

JURASSIC

MJg — Granodiorite, granite and minor diorite and quartz diorite, locally foliated, informally named the **Terrace Creek Batholith**

JHg — **Nelson Intrusions**: Hornblende-biotite granodiorite, diorite and granite; generally moderately foliated

TrJd — **Klotassin Intrusions**: Commonly foliated and altered hornblende-biotite granodiorite, diorite and quartz diorite

PALEOZOIC/TRIASSIC

mu — Metamorphosed ultrabasic rocks including dismembered ophiolitic units

Geological compilation by Neil Church based on the following references:

References

Church, B.N. (1980): Preliminary Geological Map of the Terrace Mountain Outlier; *B.C. Ministry of Energy, Mines and Petroleum Resources*; Preliminary Map 37, scale 1: 50 000.

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

Okulitch, A.V. (1978): Thompson-Shuswap-Okanagan, British Columbia; *Geological Survey of Canada*, Open File Map 637.

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Rice, H.M.A. (1940): Preliminary Map, Salmon Arm, British Columbia; *Geological Survey of Canada*, Paper 46-7.

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Wheeler, J.O. and McFeely, P. (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.

BC Ministry of Energy, Mines and Petroleum Resources

Geological Survey Branch

MINFILE MAP
NTS 082LSW
VERNON

This MINFILE release researched and compiled by:
Discovery Consultants, Vernon

Date Revised: October 1993
Date Released: December 1993

Scale 1:100 000

0 2 4 6 8 10 kilometres

Total Number of Mineral Occurrences: 157

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

082JNE	082LNW	082LNE
082JSE	082LSW	082LSE
082MNE	082NW	082NE

MAP LEGEND - 082LSW

MINFILE NUMBER	NAME	COMMODITIES
001	GREEN GABLES MAIN	CU
002	TICK	MO
003	TICK 2	MO
004	GOODENOUGH CENTRAL	CU AU PB ZN
005	FAY	PT AU PB ZN MO
006	FAY	AU
007	BLACK HAWK	AG AU ZN CU PB
008	MOUNT VERNON	AU PB ZN
009	SILVER	MS
010	SILVER QUEEN (L. 1182)	AG PB ZN AU CU
011	MAY	AG AU PB
012	GRAND TIMES (L. 1173)	AG
013	ALPHA	AG AU PB ZN CU
014	FAITH (VOIN)	WA LE MS PB ZN
015	OCTAGON	AG AU CU ZN
016	OCTAGON	AG AU PB CU ZN
017	MITCHELL AND COCHRANE	PB AG CU ZN
018	PORTEOUS CAMP	AG AU PB CU
019	BRENDA MAIN	AU
020	BRENDA	AU AG PB CU
021	KEYSTONE 1	AU
022	KEYSTONE 2 (L. 738)	AG PB CU
023	BLUE JAY (L. 738)	AG AU
024	EUREKA (L. 4892)	AU
025	REX (L. 3228)	AU CU
026	FALCON (L. 821)	AG AU CU PB
027	SUNSHINE (L. 1179)	AG AU CU
028	KLONDYKE	AU AG CU
029	OPHIR	AU ZN AG AU PB
030	RUBY GOLD AND PEERLESS	AU AG
031	RUBY GOLD (L. 3348)	AU AG
032	MORNING GLORY (L. 730)	AU AG CU
033	BRISTOL (L. 1179)	AU AG CU
034	WESTERN (L. 2526)	AG AU CU
035	IRON CAP	CU AU
036	THREE TRAMPS (L. 525)	CU AU
037	BACHELOR	CU AU
038	MAY	AG AU
039	MISSION HILL EAST	AU AG
040	MILLIGAN	AU AG
041	MISSION HILL	AU AG
042	WHITE ELEPHANT (L. 4980)	AG BI TE WO
043	DOBSON NORTH	AU
044	DOBSON	AU
045	KOHLUN	MO CU AU
046	SWANSEA	AG AU
047	SKEWER	AG CU PB ZN
048	WESTWOLD	MS BS AT
049	KALAMALKA	AU AG CU PB ZN
050	AM	MO CU
051	AM	MO CU
052	ESPERON 2	MO WO
053	ESPERON 3	MO
054	ESPERON 4	MO
055	SHERMAN GRANDUM	AG AU
056	LONE STAR	AU
057	FLOT	AU AG ZN
058	MIS1232	AU PB MO
059	PRINCE OF WALES	AG AU
060	GOLD MOUNTAIN	AU
061	SHORTS CREEK	MT MA
062	SILVER QUEEN (L. 4925)	MS UR
063	SWEET-WAD	AU AG
064	JEWEL	AU
065	MOUNT ROSE (L. 2682)	AU
066	ADJAY	MS BS AT
067	OKANAGAN SUNSET	CU BS AT
068	ROSA	CU AG
069	WESTWOLD CLAY	MS
070	ROSA	CU
071	STUART	AU
072	WEDGE	AG
073	SILVER GRIDGE	VS
074	TUKTAKAMIN	MS
075	MOFFAT CREEK	PM
076	LAWSON	CU BS BS
077	LAKESIDE	AU
078	LITTLE DUNCAN AND PANORAMA	AU AG PB ZN CU
079	DAWSON CREEK	AU
080	EQUUS CREEK	UR
081	ROSA	CU
082	EBBETT	AU
083	EBBETT EAST	AU
084	WHITEMAN CREEK	AU
085	WHITEMAN GRANITE	PGR DS BS
086	WHITEMAN	PGR DS BS
087	LAKESIDE	AU
088	KING EDWARD	AU
089	HARRIS CREEK	AU
090	MARY LOU	AU UR
091	MARY LOU 2	AU
092	MONTESSORI LIMESTONE	LI
093	SALMON RIVER NORTH	LI
094	SALMON RIVER SOUTH	LI
095	MAGOBY LIMESTONE	LI MB
096	MAGOBY	MB
097	MONTY LAKE	AU GS
098	DOUGLAS LAKE ROAD	AU GS
099	DOUGLAS LAKE	AU GS
100	WHITEMAN JASPER	AU
101	INGRAM	AU GS
102	BLIZZARD	AU GS
103	SHORTS CREEK AGATE	AU GS
104	SHORTS	AU GS
105	ARMSTRONG KYANITE	KY
106	EASEWELL	AU GS
107	SUMAS	AU CU ZN PB
108	SUMAS	AU CU ZN PB
109	BALD RANGE	MB DS BS
110	OYAMA SHALE	MB GS
111	OYAMA	GS
112	GREEN GABLES WEST	PL

MAP LEGEND - 082LSW

MINFILE NUMBER	NAME	COMMODITIES
116	SAVE	AU
117	BOND	AU AG
118	BOND	AU AG
119	CUP	AU AG
120	LAVINGTON	AU
121	PINK	AU GS BS
122	KEYSTONE 6 WEST	AU GS
123	KEYSTONE 5	AU ZN
124	KEYSTONE 8	AU PB
125	KEYSTONE	AU PB PT GS
126	KEYSTONE	AU PB
127	WHITEMAN	AU MO
128	LOCH	AU MO
129	CAMPBERON	AU GS
130	GOLD STAR	AU AG
131	SWEET NEW	AU AG
132	SWEET GOSSAN	AU
133	ASPA	AU
134	ASPA	MO
135	RIM ROCKS	AU
136	DEER	CU
137	DEER WEST	CU
138	MARK	CU MB
139	ESPERON 17	MO ZN
140	MISSION HILL WEST	AU
141	ATHENS/STABLES	AU AG
142	SILVER VERNON COPPER	CU AG MB
143	ELECTRA MINE	AU GS
144	JEWEL EAST	AU AG ZN
145	MISSION HILL WEST	PB AU
146	SILVER STREAK	CU
147	SILVER VERNON COPPER	CU AU AG MO
148	DOG	CU
149	TOR	CU
150	UPPER WHITEMAN CREEK	AU
151	GOODENOUGH B	CU
152	GOODENOUGH PORPHYRY	CU
153	GOODENOUGH	CU
154	GOODENOUGH A	AU
155	WAY	AU AG
156	WAY 2	AU
157	WAY 3	CU
158	TERRACE MOUNTAIN	PB

COMMODITY LEGEND

CODE INDEX

AB	Asbestos	AU	Gold
AG	Silver	AS	Arsenic
AT	Asbestos	BI	Bismuth
BE	Beryl	BS	Building Stone
BI	Bismuth	CA	Calcium
BS	Building Stone	CB	Columbium
CA	Calcium	CD	Cadmium
CB	Columbium	CL	Clay
CD	Cadmium	CR	Chromite
CL	Clay	DI	Diamonds
CR	Chromite	DS	Dimension Stone
DI	Diamonds	FL	Fluorite
DS	Dimension Stone	GP	Gypsum
FL	Fluorite	GR	Granite
GR	Granite	GS	Gemstones
GP	Gypsum	KY	Kyanite
KY	Kyanite	LI	Limestone
LI	Limestone	MA	Magnesite
MA	Magnesite	MB	Marble
MB	Marble	MI	Mica
MI	Mica	MO	Molybdenum
MO	Molybdenum	PD	Palladium
PD	Palladium	PT	Platinum
PT	Platinum	PY	Pyrite
PY	Pyrite	SA	Silica
SA	Silica	SE	Silver
SE	Silver	SN	Tin
TE	Tellurium	TE	Tellurium
TH	Thorium	TH	Thorium
TU	Tungsten	TU	Tungsten
UR	Uranium	UR	Uranium
VC	Volcanic Glass	VC	Volcanic Glass
WO	Wollastonite	WO	Wollastonite
ZE	Zeolite	ZE	Zeolite
ZN	Zinc	ZN	Zinc
EG	Exploration Geochemistry	EG	Exploration Geochemistry
EP	Exploration Geophysics	EP	Exploration Geophysics

COMMODITY INDEX

Agate	AE
Aggregate	AT
Asbestos	AB
Barium	BR
Building Stone	BS
Cadmium	CD
Clay	CC
Coal	CM
Copper	CU
Dimension Stone	DS
Gem	GE
Gemstones	GS
Gold	AU
Granite	GR
Gypsum	GP
Iron	FE
Kyanite	KY
Lead	PB
Limestone	LI
Magnesite	MT
Magnetite	MA
Marble	MB
Mica	MI
Molybdenum	MO
Palladium	PD
Platinum	PT
Pyrite	PY
Silica	SI
Silver	AG
Tin	SN
Tellurium	TE
Thorium	TH
Tungsten	TU
Uranium	UR
Volcanic Glass	VG
Wollastonite	WO
Zeolite	ZE
Zinc	ZN
Exploration Geochemistry	EG
Exploration Geophysics	EP

OCCURRENCES DELETED FROM PREVIOUS MAP RELEASES

OLD NUMBER	OLD NAME	REASON FOR DELETION
082LSW019	Brent	Same as 082LSW029
082LSW023	IXL	Insufficient documented mineralization
082LSW043	Kenallan	Same as 082LSW045
082LSW046	Eagle	Insufficient documented mineralization
082LSW047	Pericles	Same as 082LSW030
082LSW053	Admiral	Located in 082LSE
082LSW054	Faith	Located in 082NE
082LSW055	Lost Treasure	Located in 082LSE
082LSW069	John	Insufficient documented mineralization
082LSW072	Vernon	Re-numbered to 082LSW097
082LSW073	Winfield	Same as 082LSW093
082LSW084	Highway 6	Calcium content too low
082LSW109	Tappan	Located in 082LNW and/or Silver Star area