

GEOLOGICAL LEGEND

LAYERED ROCKS

- CENOZOIC**
QUATERNARY
PLEISTOCENE AND RECENT
Qal Unconsolidated glacial, fluvial and alluvial deposits
Qvl Lambly Creek basalt
- TERTIARY**
MIOCENE AND PIOCENE
MVC CHILOCOTIN GROUP: non-marine plateau basalt
- Eocene**
EP PENTICTON GROUP: mixed alkalic and calcalkaline transitional volcanic and associated fluvial and lacustrine sediments; includes White Lake (EPa), Marame, Marame and Springbank formations
- MESOZOIC**
TRASSIC/JURASSIC
TJm NICOLA GROUP: island-arc derived rocks comprising basic to intermediate lavas, gneiss, pyroclastics and interbedded sediments, including argillite and limestone
- PALEOZOIC and MESOZOIC**
DEVONIAN/TRASSIC
DTH HARPER RANCH GROUP: subterranean of Quesnelia comprising argillite, chert, limestone, and island-arc derived diacid and volcaniclastic rocks, including sandstone and conglomerate
- PALEOZOIC**
PERMIAN AND OLDER
PC CHAPPERON GROUP: part of the Okanagan Subterranean of Quesnelia comprising metamorphosed siliceous and calcareous argillites and gneiss of largely oceanic origin; includes minor xenocrystic ultrabasic rock
- CARBONIFEROUS TO PERMIAN**
CPA AMARCHEST GROUP: part of the Okanagan Subterranean of Quesnelia comprising oceanic and marginal basin volcanics and sediments; includes chert, schist, gneiss, limestone, chert, and minor ultrabasic rock
- PROTEROZOIC**
uPB SHUSWAP TERRANE: part of the Monashee Complex affected by Tertiary metamorphism; includes schist, gneiss and paragneiss

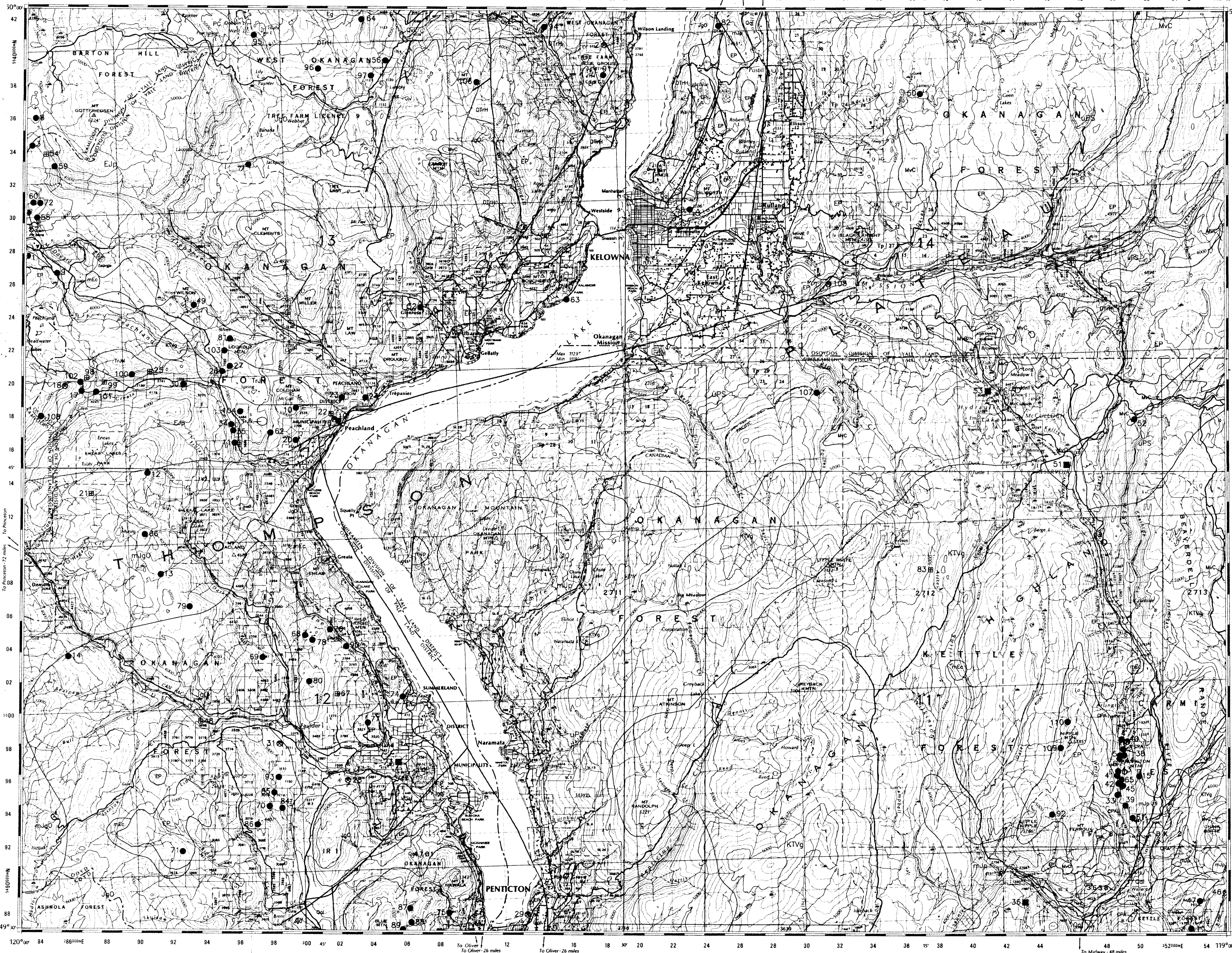
INTRUSIVE ROCKS

- CENOZOIC**
TERTIARY
Eocene
mEc CORYELL INTRUSIONS: biotite monzonite, syenite, and minor granite stocks and feeder dikes to the Marame volcanics
Eg SINGLE CREEK PORPHYRY: porphyritic granite
- MESOZOIC**
CRETACEOUS
KTVg OKANAGAN BATHOLITH: granodiorite and granite; includes the Tertiary Ladybird Suite (to the east) and Valhalla Intrusions
- JURASSIC**
EjP PENNASK BATHOLITH: granodiorite, diorite and quartz diorite, often porphyritic; includes the informally named Brenda Stock
mJp Granodiorite, diorite and quartz diorite; includes some rocks previously mapped as Nelson intrusions
- PROTEROZOIC**
mJgO OSPREY LAKE INTRUSIONS: granodiorite and granite, often porphyritic
JgO OKANAGAN INTRUSIONS: granodiorite

Geological map and legend compiled from:

- Canine, C.E. (1940). Geology, Kettle River (West Half), British Columbia. Geological Survey of Canada, Map 53A, scale 1:250,000.
Christopher, P.A. (1978). East Okanagan Uranium Area (Kelowna to Beaverdam), South-central British Columbia (82°10' W, 49° 14' N). B.C. Ministry of Energy, Mines and Petroleum Resources, Preliminary Map 29, scale 1:50,000.
Church, B.N. (1960). Preliminary Geological Map of the Kelowna Tertiary Outer (West Half), B.C. Ministry of Energy, Mines and Petroleum Resources, Preliminary Map 29, scale 1:50,000.
Church, B.N. (1961). Preliminary Geological Map of the Kelowna Tertiary Outer (East Half), B.C. Ministry of Energy, Mines and Petroleum Resources, Preliminary Map 41, scale 1:50,000.
Hay, T., Church, B.N., Legon, A., Gibson, G., Oliver, R., Gray, B., Vihaver, J.O. and Duran, R.P. (1984). Geology of the Kettle River Drainage, B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1984-1.
Lyle, W.V. (1961). Geology, Kettle River (West Half), British Columbia. Geological Survey of Canada, Map 15-181, scale 1:250,000.
Ouztsch, A.V. (1978). Thompson-Shuswap-Chanagan, British Columbia. Geological Survey of Canada, Open File 837, scale 1:250,000.
Tompaasen, H.C. (1959). Geology, Penticton, British Columbia. Geological Survey of Canada, Map 1736A, scale 1:250,000.
Whelan, J.D. and McFadyen, P. (1961). Tectonic Assemblage Map of the Canadian Cordillera and adjacent parts of the United States of America. Geological Survey of Canada, Map 1712A, scale 1:2,000,000.

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 mineral documentation, the latter should be given priority.



BRITISH COLUMBIA
Ministry of Employment and Investment
Energy and Minerals Division
Geological Survey Branch

**MINFILE MAP
NTS 082ENW
KELOWNA**

This MINFILE release researched and compiled by:
J. Page

Date Revised: May 1996
Scale 1:100 000

Total Number of Mineral Occurrences: 110

Status

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

U S A

MAP LEGEND - 082ENW

MINFILE NUMBER	NAME	COMMODITIES
001	MAC	MO CU
002	BLUE HAWK	AU AG PB CU ZN
003	NORTH BRENDA CENTRAL	CU
004	ELK 2	CU
005	ELK 4	MO CU ZN
006	ELK 7	CU
007	MAURICE	CU MO
008	NORTH BRENDA JEFF 43	CU MO
009	YIP CREEK	CU MO
010	COLLEX	CU MO
011	TR 2	CU
012	CACHE	CU AG
013	GLAD	CU MO
014	ARNE	CU MO
015	PELCHAND LIMESTONE	MA
016	ALMA MATER	AG PB MO CU ZN
017	CAMP HEWITT 1	PB ZN CU
018	CAMP HEWITT 2	CU
019	JASS	AG CU ZN PB MO
020	CAMP HEWITT 3	CU
021	CAMP HEWITT 4	AU AG PB ZN
022	CAMP HEWITT 5	CU
023	CAMP HEWITT 6	PB ZN CU
024	CAMP HEWITT 7	AU AG PB ZN
025	ROSE MOUNT	AU AG ZN CU PB AS
026	KELLY	AG PB ZN
027	OKANAGAN	CU MO
028	GAYLE	CU PB ZN CU
029	BATHFIELD SILVER LODGE	AG
030	HITCHER RANCH	AU AG PB CU
031	MALL CREEK	CU
032	LITTLE BRENDA	AU AG PB CU
033	PANDRAMA	MO
034	IVY 1	CU
035	IVY 2	CU
036	IVY 3	CU
037	IVY 4	CU
038	WALLACE	WO CU
039	LAKELAKE	AG PB
040	DKD 1	CU
041	DKD 2	CU
042	BRU 21	CU
043	DKD 4	CU
044	ROSEMONT	AU AG CU
045	ROSEMONT	AU AG CU PB ZN
046	FAP	CU WL
047	SIL	CU
048	JAMES LAKE	UR
049	HAYNES LAKE	UR
050	VERGUS	UR
051	HYPACULIC LAKE	UR
052	TRIFANER GORGE	UR
053	DAM	CU MA FE
054	ROF	CU MA
055	GEORGE LAKE	CU MO
056	YELONIA	CU
057	PAN	CU MO AU
058	LONG LAKE NORTH	CU
059	BLACK	PB ZN CU
060	RISL	CU
061	WESTBANK	AG CU
062	LAMB	AG CU
063	HALL	CU
064	SWAN	UR
065	SUNSHINE	UR
066	NORTH FAULT DR	UR
067	JOHNSTON'S SLUGH	UR
068	AGUR 7	UR
069	ROSELAKE	UR
070	ROSELAKE	UR
071	ROSELAKE EAST	UR
072	PHARISE FLATS	UR
073	PHARISE LAKE	UR
074	ROSEMONT	UR
075	WESTBENCH	UR
076	THREE PEAK BASIN	UR
077	CONTACT POOL	UR
078	BALD HILLS	UR
079	BALD HILLS RIDGE	UR
080	WINN	UR
081	WINN	UR
082	WINN	UR
083	WINN	UR
084	AGUR MO	UR
085	AGUR MO	UR
086	AGUR MO	UR
087	AGUR MO	UR
088	AGUR MO	UR
089	AGUR MO	UR
090	AGUR MO	UR
091	SHCO	AU AG CU ZN
092	ISHTOK	AG CU MO
093	ISHTOK	AG
094	JACK	CU SB AS
095	SHCO	CU
096	JUBILATION	AU AG
097	BOLIVAR WEST	AU AG
098	BOLIVAR WEST	AU AG
099	BOLIVAR ROAD	AG AU PB MO
100	CONSLT MOUNTAIN	AU AG AS
101	BRAB	AU AG
102	MESSENGER CREEK	AU AG
103	MOUNT SWITE AGATE	AG
104	ANSEL HOT SPRING	UR
105	MOUNT SWITE AGATE	UR
106	MOUNT SWITE AGATE	UR
107	MOUNT SWITE AGATE	UR
108	MOUNT SWITE AGATE	UR
109	MOUNT SWITE AGATE	UR
110	MOUNT SWITE AGATE	UR

COMMODITY LEGEND

CODE INDEX	COMMODITY INDEX
AB	Asbestos
AE	Agate
AG	Agate
AG	Arsenic
AG	Asbestos
AG	Clay
AG	Coal
AG	Copper
AG	Cyanide
AG	Diatomite
AG	Dimension Stone
AG	Fluorite
AG	Gold
AG	Gypsum
AG	Iron
AG	Lead
AG	Limestone
AG	Magnetite
AG	Mica
AG	Microdenium
AG	Lead
AG	Silica
AG	Silver
AG	Sulfur
AG	Thorium
AG	Titanium
AG	Travertine
AG	Uranium
AG	Vanadium
AG	Wollastonite
AG	Zirconium
AG	Zinc

OCCURRENCES DELETED FROM PREVIOUS MAP RELEASES

OLD NUMBER	OLD NAME	REASON FOR DELETION
082ENW001	Capitan Gordon	Same as 082ENW015
082ENW041	DKD 2	Combined with 082ENW043
082ENW055	Tie Top	Insufficient documented mineralization
082ENW057	Redcap	Insufficient documented mineralization
082ENW060	Iron	Insufficient documented mineralization
082ENW064	Rohanna	Same as 082ENW024
082ENW072	Demuth	Insufficient documented mineralization