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GEOLOGICAL SURVEY OF CANADA | COMMISSION GÉOLOGIQUE DU CANADA

NATMAP
CARTNAT
Canada's National Geoscience Mapping Program
Le Programme national de cartographie géoscientifique du Canada

REFERENCES

Acton, S. L., Paradis, S., Thompson, R.I. and Johnston, S. T.
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1959: VERNON map-area, British Columbia: Geological Survey of Canada, Memoir 296, 186 p.

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1979: Geology and mineral occurrences of the Thompson-Shuswap-Okanagan region, south-central B.C.; Geological Survey of Canada, Open File 637.

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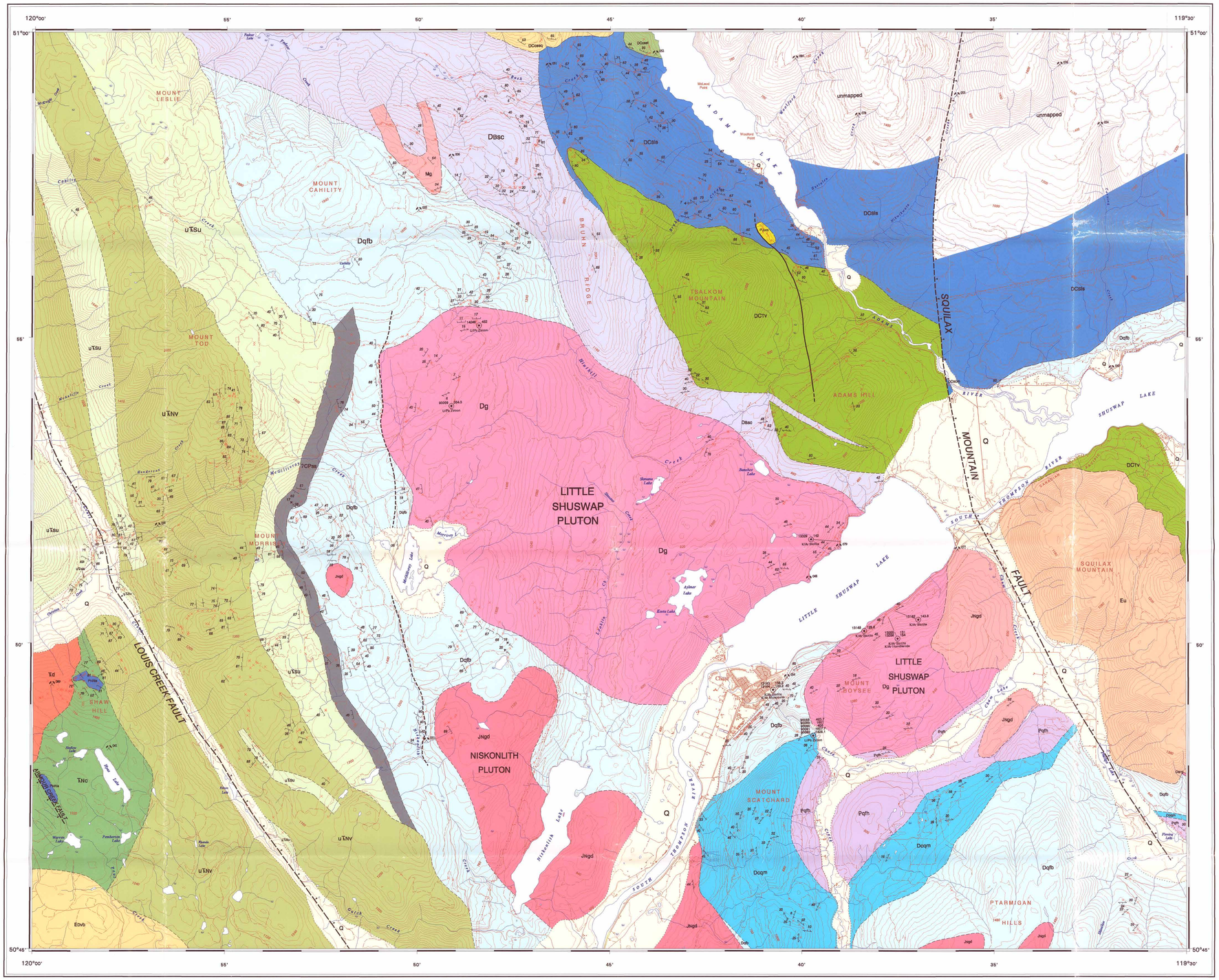
1999: Kamloops to Vernon: Tertiary stratigraphy and structure. Industrial mineral and precious metal potential, Kamloops, Nicola and Vernon Mining Divisions. British Columbia Geological Survey Branch, Assessment Report 25561, 82p.

MINERAL OCCURRENCE INDEX

MINFILNO	NAME	COMMODITY
082LNW052	STEEP 3	PB,AU,CU
082LNW051	SERPENT	PB,ZN,CU
082LNW084	WOOLFORD CREEK	CU,PB
082LNW036	NIK	CU,ZN
082LNW063	NIK (EAST)	CU,PB,ZN
082LNW078	WOOF 3	CU,ZN,AG,AU
082LNW054	AD	CU,ZN
082LNW006	CAHILTY 7	PB,CU
082LNW005	CAHILTY 1	PB,ZN,AG,CU,AU
082LNW045	GRAVEL	PB,ZN
082LNW058	MCGILLIVRAY CREEK	AU
082LNW079	ROCKY POINT	BI
082LNW077	SQUILAX	AE,GS
082LNW048	LITTLE SHUSWAP LAKE	FL
082LNW089	SHAW HILL	CU,AG
082LNW034	TO	FL
082LNW041	HY 7	CU
082LNW031	FS	SI,CU,PB,ZN,WO

Source: British Columbia Ministry of Energy and Mines, MINFILE database available at: http://www.em.gov.bc.ca/cf/minfile/dl40d.cfm



LEGEND

Cenozoic
QUATERNARY
PLEISTOCENE AND HOLOCENE

Q — *Unconsolidated sediments; glacial deposits, colluvium and alluvium; few if any outcrops; probable subcrop unit within parentheses*

Tertiary
EOCENE

KAMLOOPS GROUP undivided (~49-52 Ma)

Eu — *Conglomerate, sandstone and minor shale; andesite, dacite and rhyolite flows, breccias and tuffs.*

Mesozoic

Mg — *Description required. Bob, this unit was relabelled Tr-d on map. Does it now get removed from the legend?*

JURASSIC

Jngd — *Niskonlith pluton: Granodiorite, quartz-monzonite, diorite.*

TRIASSIC

Td — *Hefley Creek pluton and Paul Creek stock (and satellite intrusive bodies): Granodiorite, diorite, clinopyroxenite, quartz-monzonite.*

UPPER TRIASSIC (AND LOWER JURASSIC?)
NICOLA (AND ROSSLAND?) GROUPS

uTNc — *Rayleigh conglomerate: Limestone and volcanic-lithic conglomerate; minor siltstone, sandstone, pelite.*

uTNv — *Nicola volcanic rocks: Breccia, tuffs, flows, augite porphyry (may be correlative with the Lower Jurassic Rossland Group).*

uTNs — *Unknown*

UPPER TRIASSIC
SLOCAN GROUP

uTsu — *Dome Hills unit: Argillite, siltstone, sandstone, andesite, chert, limestone, augite porphyry, tuff, pillow basalt.*

PERMIAN and/or JURASSIC

PJum — *Coldstream ultramafic rocks: Variably metamorphosed and altered ultramafic sills, dikes, lenses and stocks; fresh varieties include unfoliated, medium- to coarse- crystalline dunite, pyroxenite, amphibolite, hartzburgite; altered varieties include serpentinite and chlorite schist; includes Old Dave Intrusions of Jones (1959)*

PERMIAN

HARPER RANCH GROUP
McGREGOR CREEK FORMATION

PHrls — *Limestone; silicified limestone.*

CARBONIFEROUS and PERMIAN (?)

?CPss — *Unknown*

DEVONIAN and CARBONIFEROUS

DCcsst — *Unknown*

DCcssq — *Unknown*

DCsls — SICAMOUS FORMATION
Grey, recrystallized, carbonaceous limestone with black, argillaceous partings; calcareous argillite; copious, white, calcite veins.

DCTv — TSALKOM FORMATION
Massive greenstone, chloriteschist.

DEVONIAN (and CARBONIFEROUS?)

Dg — *Little Shuswap pluton (~354 Ma): Granodiorite, diorite, granite; weakly to strongly foliated.*

Dbsc — *Bruen phyllite: Black, platy argillite-protoschist; argillaceous sandstone and siltstone; interlayered with biotite-garnet schist near base.*

SILVER CREEK FORMATION

Dqfb — *Biotite-muscovite-garnet schist/black, carbonaceous schist; micaceous quartzite, quartzite; minor marble.*

MIDDLE? DEVONIAN
CHASE FORMATION

Dcqm — *White to light grey calcareous quartzite; diopside rich calcsilicate.*

Paleo- and/or Mesoproterozoic

Pqfh — *Tsulus schist: Biotite-quartz-feldspar schist (with or without sillimanite, garnet); feldspar-quartz-hornblende schist (with or without biotite); amphibolite; calc-silicate gneiss; micaceous quartzite.*

SYMBOLS

- *Bedding, top unknown: inclined, vertical* — 35 / 71
- *Lineation: 1st generation intersection* — 20
- *Unknown (BUS)* — 20
- *Axial plane: inclined, vertical* — 65 / 53
- *Cleavage* — 53
- *Foliation: 1st generation, inclined, vertical* — 53 / 78
- *Fold Hinge; crenulation lineation* — 20
- *Outcrop*
- *Fossil locality (Localities with no database number taken from Okulich, 1979)* — database no. system; fauna; stage
- *Geochronolgy sample location* — database no.; age; lielotopic sys.; mineral
- *Mineral Occurrence* — database no.
- *Geological boundary: defined, approximate, assumed*
- *Geological boundary: notional (no geological control)*
- *Facies Boundary*
- *Quaternary limit*
- *Fault, contraction (teeth indicate upthrust side)*
- *Normal fault: defined, approximate, assumed*
- *Unclassified fault: defined, approximate, assumed*

OPEN FILE
DOSSIER PUBLIC
4382
GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
2004
SHEET 1 OF 1
FEUILLET 1 DE 1

Open files are products that have not gone through the GSO formal publication process.

Les dossiers publics sont des produits qui n'ont pas été soumis au processus officiel de publication de la CGC.

LOCATION MAP

Geology by R.I. Thompson, 1997-98; P.B. Read, 1994-95; T.W. Beatty, 2001-02

Geological compilation by R.I. Thompson, 2004

Co-ordinated by R.I. Thompson through the auspices of the Ancient Pacific Margin NATMAP project

Digital cartography by R.F. MacLeod, Geological Survey of Canada, Pacific Division

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

OPEN FILE 4382

GEOLOGY

CHASE

BRITISH COLUMBIA

Scale 1:50 000/Échelle 1/50 000

kilometres 1 0 1 2 3 4 kilomètres

Digital base map from data compiled by Geomatics Canada, modified by the Geoscience Information Division

Mean magnetic declination 2004, 18°45'E, decreasing 9.6' annually.

Elevations in metres above mean sea level
Contour interval 40 metres

Universal Transverse Mercator Grid
North American Datum 1983
Zone 11

92P01	82M04	82M03
92I16	82L13 OF 4382	82L14 OF 4383
92I09	82L12 OF 4381	82L11 OF 4380

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE

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Thompson, R.I. and Beatty, T.W. (compilers)
2004: Geology, Chase, British Columbia; Geological Survey of Canada, Open File 4382, scale 1:50 000.

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