



MINFILE ¹					
MAP #	MINFILE NO	NAME	STATUS	COMMODITY	DEP. CODE
1	093E 077	BOB2	Showing	CU, AG	D03.L01
2	093E 076	BOB5	Showing	CU, AG	L01.D03
3	093E 064	RODNE JAM	Showing	CU, AG	L01.D03
4	093E 070	JAN7	Showing	CU, AG	L01.D03
5	093E 079	RON43	Showing	CU, AG	L01.D03
6	093E 065	RON47	Showing	CU, AG	D03.L01
7	093E 080	RON48	Showing	CU, AG	D03
8	093E 081	RON4	Showing	CU, AG	L01.D03
9	093E 082	RON10	Showing	CU, AG, AU	L01.D03
10	093E 058	POND	Showing	CU	L04.L05
11	093E 062	TWOSEAR-HILL	Showing	CU	L01
12	093E 060	CHALCOPHYTE	Showing	CU, AG, PB	L01.R05
13	093E 059	TETRAHEDRITE	Showing	AG, CU	L01.R05
14	093E 061	DOLLY	Showing	CU	L01.R05

¹ Data from British Columbia Geological Survey Branch MINFILE Mineral Inventory
COMMODITY abbreviations: AU = gold; AG = silver; CU = copper; PB = lead
DEP. CODE abbreviations: D03 = Volcanic redbed Cu, W = Polymetallic veins Ag-Pb-Zn-Au
L01 = Subvolcanic Cu-Ag-Au-Sb; L04 = Porphyry Cu-Mo-Au; L05 = Porphyry Mo (Low Fugle)

MAP #	FIELD #	LOCATION	AGE (Ma)	MINERAL	METHOD	REFERENCE
1	VV-1003	Ponds Lake South	50 ± 2	Biotite	K/Ar	This report
2	24-BM-03	Ponds Lake	51.8 ± 0.8	Biotite	Ar-Ar	This report
3	03-A-2	Ramsay Peak North	136.4 ± 1.5	Hornblende	Ar-Ar	This report
4	47-SM-04	Mount Preston	175.4 ± 0.9	Zircon	U/Pb	This report
5	24-BM-03	Ponds East	176.6 ± 3.3	Zircon	U/Pb	This report
6	16-BM-04	Rivers North	172.9 ± 0.9	Zircon	U/Pb	This report
7A	24-BM-04	Rivers Peak	172.7 ± 0.9	Zircon (DZ)	U/Pb	This report
7B	24-BM-04	Rivers Peak	174.4 ± 1.1	Zircon (DZ)	U/Pb	This report
7C	24-BM-04	Rivers Peak	175.4 ± 1.8	Zircon (DZ)	U/Pb	This report
8	107-SM-03	Ramsay Peak South	152.2 ± 0.9	Zircon	U/Pb	This report
9	49-VV-SAL	Salient Mountain	ca. 150	Zircon	U/Pb	This report
10	136-BM-04	Salient East	122.9 ± 0.6	Zircon	U/Pb	This report

^A All new geochronology done at Pacific Centre for Isotope and Geochemical Research, University of British Columbia; U/Pb analyses by S.M. Haggart, Ar-Ar analyses by T. Ullrich
DZ = detrital zircon

REFERENCES
¹ Hunt, P.A. and Roddick, J.C., 1990. A compilation of K-Ar ages. Report 19 in Radiogenic Age and Isotope Studies: Report 19, Geological Survey of Canada, Paper 89-1, p. 153-160 (Data 89-12).
² van der Heyden, P., 1989. U-Pb and K-Ar geochronometry of the Coast Plutonic Complex, 53°N to 54°N, British Columbia, and implications for the Hudson-Helmontine superterrane boundary. University of British Columbia, Ph.D. thesis, 302 p.

PALEONTOLOGY ¹					
MAP #	GSC #	FIELD #	COLLECTOR	DATE	FOSSILS
1	n.a. ²	-	G.J. Woodworth	1978	Bivalves, gen. et sp. indet.; Belemnites, gen. et sp. indet.
2	C-53550 ²	12-78TD-F4	H.W. Tipper	1978	Liliopsis sp. indet.
3	C-307263	06-SM-04	S.M. Gordie	2004	Trigonia sp.; Cleonotoma sp.
4	C-307712	59-SM-04	S.M. Gordie	2004	Probable bivalve fragment; Bivalve or ammonite fragment, possibly Trigonia? sp.

¹ compiled by J.W. Haggart
² unpublished GSC Paleontological Report numbers
n.a. = not available



GSC OPEN FILE 5387
GEOLOGY
TESLA LAKE (93E/02)
BRITISH COLUMBIA
Scale 1:50 000/Echelle 1/50 000

Geology by S.M. Gordie (2004), J.B. Mahoney (2004), R.L. Hooper (2004), and J.W. Haggart (2004)
Geological compilation by S.M. Gordie, J.B. Mahoney, R.L. Hooper, and J.W. Haggart
Digital cartography by M. Ceh and N.L. Hastings

Contribution of Geological Survey of Canada's Beta Coole Targeted Geoscience Initiative, Coalfield Energy and Minerals Project Number Y15 and British Columbia Rocks to Riches Program, Project Number 2005-032

Universal Transverse Mercator Projection
North American Datum 1983
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Projection transversale universelle de Mercator
Système de référence géodésique nord-américain, 1983
© Sa Majesté la Reine du chef du Canada 2006

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

Digital base map from data compiled by Geomatics Canada modified by Geological Survey of Canada

Mean magnetic declination 2006, 20° 27' E, decreasing 15.0' annually. Readings vary from 20° 33' E in the northwest to 20° 22' E in the southeast corner of the map.

Elevations in feet above mean sea level

Contour interval 100 feet

93E/06	93E/07	93E/08
93E/03	93E/02	93E/01
OF5386	OF5387	
93D/14	93D/15	93D/16

NATIONAL TOPOGRAPHIC DATA SYSTEM REFERENCE AND INDEX TO GEOGRAPHIC COORDINATES, SURVEY OF CANADA MAPS

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Geoscience BC

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5387
2006

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Gordie, S.M., Mahoney, J.B., Hooper, R.L., and Haggart, J.W., 2006. Geology, Tesla Lake (93E/02), British Columbia: Geological Survey of Canada, Open File 5387, Geoscience BC, Map 2006-1, scale 1:50 000.