



GEOSCIENCE BC MAP 2016-08

GEOLOGY of the ALMOND MOUNTAIN MAP SHEET

NTS 82E/07

SCALE 1:50 000

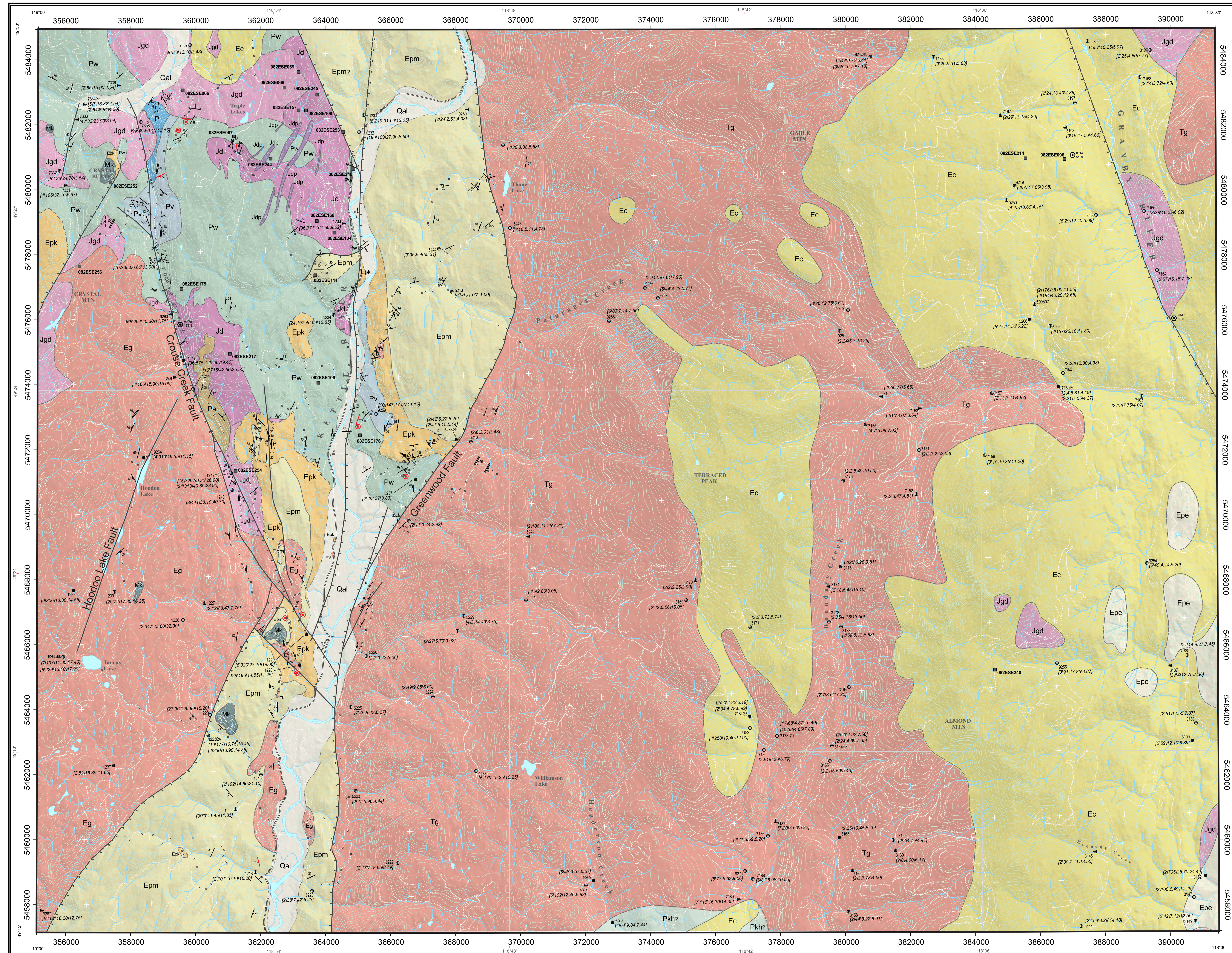
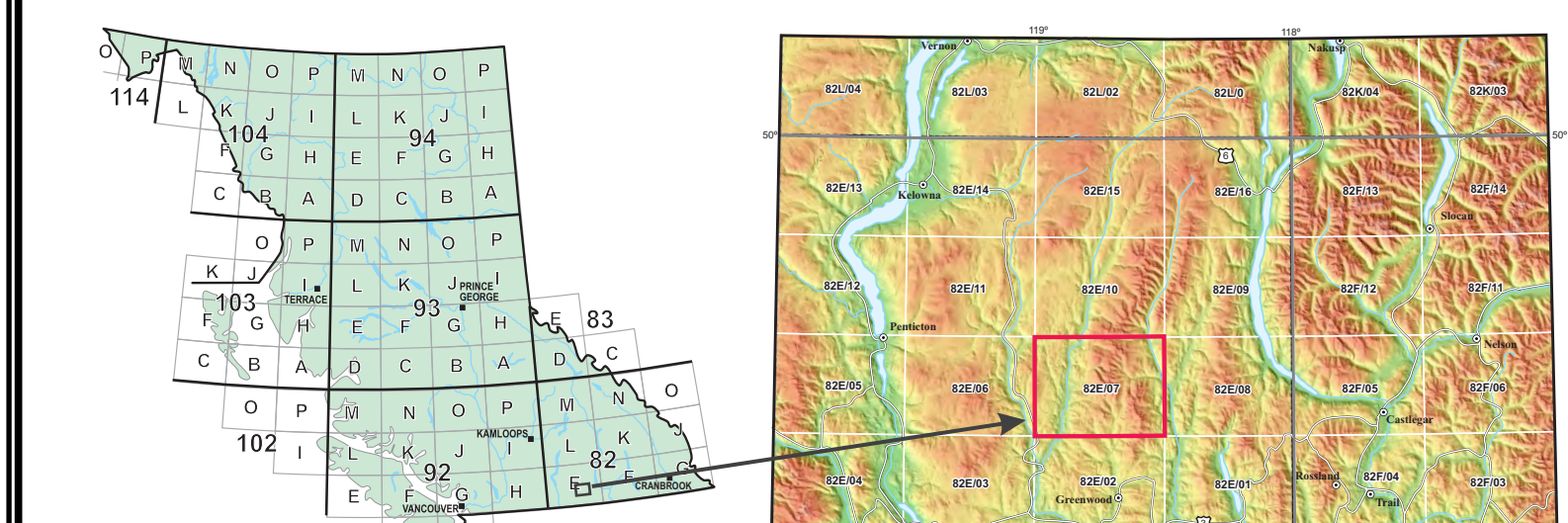


Geology and Compilation by Trygve Høy
Cartography by Wayne Jackaman & Brodie Elder

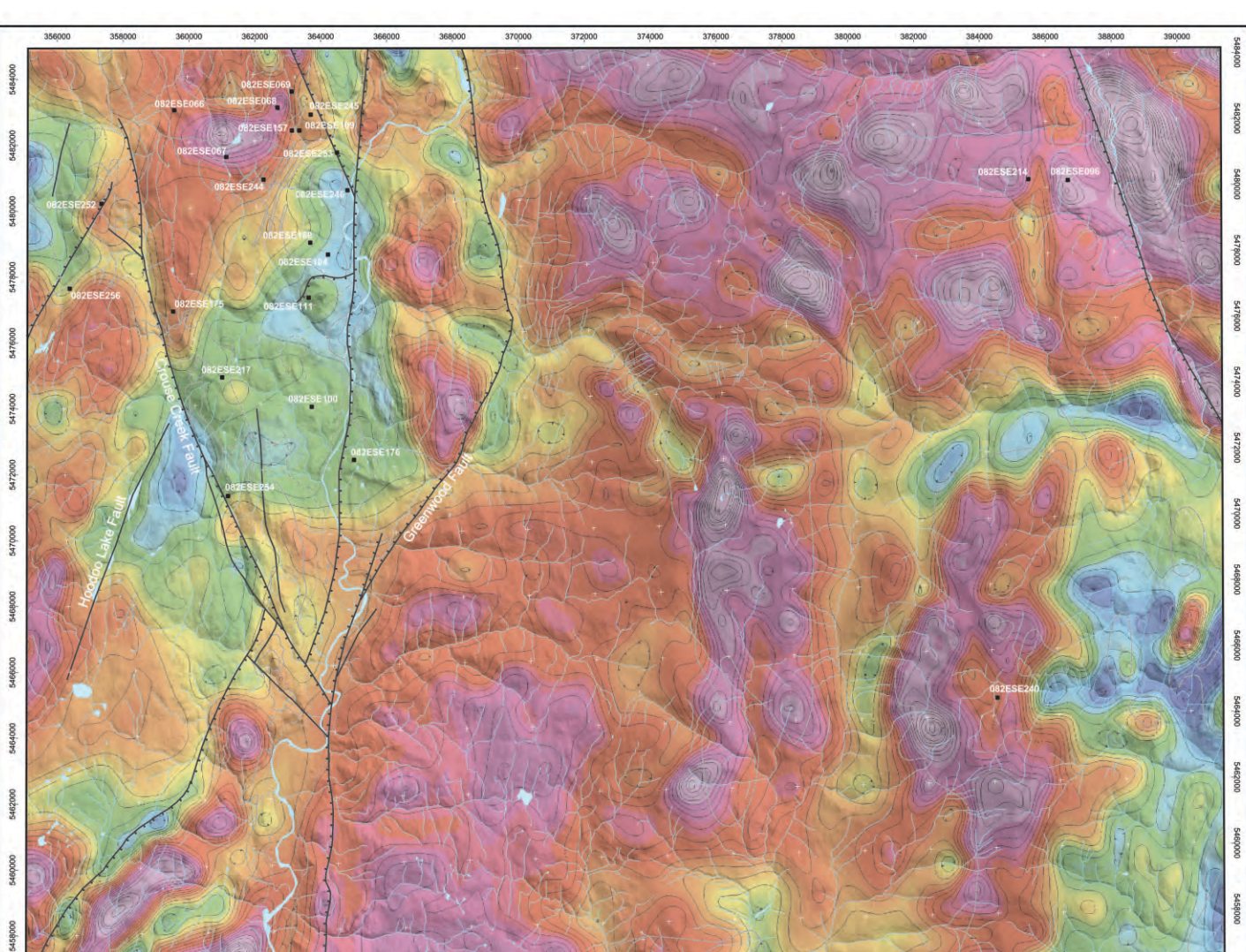
LEGEND

- CENOZOIC**
- QUATERNARY**
- Qal Alluvium, sand, gravel, till
- MIOCENE**
- Mk KALLIS FORMATION: plateau basalt; black to dark green, fine-grained; locally olivine phyrlic
- Eocene**
- Epe** PENTICTON GROUP:
- Epm MARRON FORMATION: alkali basalt, trachyte; locally amygdaloidal, vesicular or porphyritic; well-banded mafic tuff, blocky tephra; minor black or red shale or slate
 - Epk KETTLE RIVER FORMATION: basal conglomerate, overlain by feldspathic grit, conglomerate, siltstone and rare shale or argillite; typically light coloured and well bedded
- Ec** CORYELL: undifferentiated syenite and monzonite
- Eg** Porphyritic granite; coarse-grained with commonly large, pink euhedral K-feldspar crystals
- Tg** Granite, locally K-feldspar porphyritic; medium to coarse-grained
- MESOZOIC**
- JURASSIC-TRIASSIC?**
- Jdp Diorite, plagioclase porphyry; includes Eocene as well as Jurassic dykes
 - Jgd Granodiorite; less commonly quartz diorite; pale green to grey, commonly altered
 - Jd Diorite, granodiorite; massive to porphyritic; includes numerous "diorite" dykes; typically altered
- PALEOZOIC**
- Pkh?** KNOB HILL GROUP: undifferentiated metavolcanic and metasedimentary rocks
- Pw** WALLACE GROUP: undifferentiated metasedimentary and metavolcanic rocks; may include fine-grained, mafic intrusive rocks; siltstone, argillite, mafic tuff, "greenstone", minor limestone; typically altered and metamorphosed
- Pi** Larse Creek member: limestone, well-banded light to dark grey with calcite-quartz veins and pods
- Pv** Crouse Creek member: mafic lava; locally amygdaloidal or feldspar phyrlic; minor siltstone, mafic tuff
- Pa** Argillite, siltstone; minor tuff

- SYMBOLS**
- CONTACT OF ALLUVIUM
 - CONTACT: DEFINED, APPROXIMATE, ASSUMED
 - UNCONFORMITY: APPROXIMATE
 - FAULT: DEFINED OR APPROXIMATE/ASSUMED
 - NORMAL FAULT: DEFINED OR APPROXIMATE/ASSUMED
- BASE MAP INFORMATION**
- NORTH AMERICAN DATUM 1983
UTM ZONE 11
TRANSVERSE MERCATOR PROJECTION
- STATION
- FAULT
- BEDDING
- FOLIATION, CLEAVAGE
- JOINT
- VEIN
- DYKE
- MINERAL OCCURRENCE (MINFILE NUMBER)
- MINERALIZATION
- Au/Ar and K/Ar AGE DATES (Ma)
- RGS STREAM SITE (ID NUMBER & AU/AGCU/PB)
- FOREST SERVICE ROAD: ACTIVE, UNKNOWN
- National Topographic Data Base (NTDB)
URL: <http://www.geomatica.ca>
- Natural Resources Canada, Centre for Topographic Information
Canadian Digital Elevation Data (CDED)
URL: <http://www.geobase.ca>
- Base Mapping and Geomatics Services - B.C. Government



AEROMAGNETIC DATA - NTS 082E/07



SOURCES OF DATA

Geology

Gale, R.E. (2000): Geological, geochemical, VLF-EM survey and trenching report, Ward Group, Greenwood Mining Division, British Columbia; B.C. Ministry of Energy and Mines, Assessment Report 26, 309, 15 p.

Greig, C.G. and Flasha, S.T. (2005): 2004-2005 exploration program on the GK property; B.C. Ministry of Energy and Mines, Assessment Report 28179, 122 p.

Hoy, T. (2016): Geology of the Kettle River area, Almond Mountain project, southern British Columbia (NTS 082E/07), in Geoscience BC Summary of Activities 2015, Geoscience BC, Report 2016-01, p. 23-34.

Hunt, P.A. and Roddick, J.C. (1991): Radiogenic and isotope studies, GSC, Paper 90-2, p. 113-114.

Little, H.W. (1957): Kettle River (East half); Geological Survey of Canada, Map 6-1957, scale 1:253 440.

Massey, N.W.D., Gables, J.E., Mortensen, J.K. and Ullrich, T.D. (2010): Boundary project: geochronology and geochemistry of Jurassic and Eocene intrusions, southern British Columbia (NTS 082E), B.C. Ministry of Energy and Mines, Paper 2010-1, p. 127-142.

Massey, N.W.D. and Duffy, A. (2008): Boundary project: McKinley Creek and Beaverdell areas, south-central B.C. in Geological Fieldwork 2007, B.C. Ministry of Energy and Mines, BC Geological Survey, Paper 2008-1, p. 87-102.

Massey, N.W.D. and Duffy, A. (2008): Geology and mineral deposits of the area east of Beaverdell, British Columbia; B.C. Ministry of Energy and Mines, Open file 2008-9.

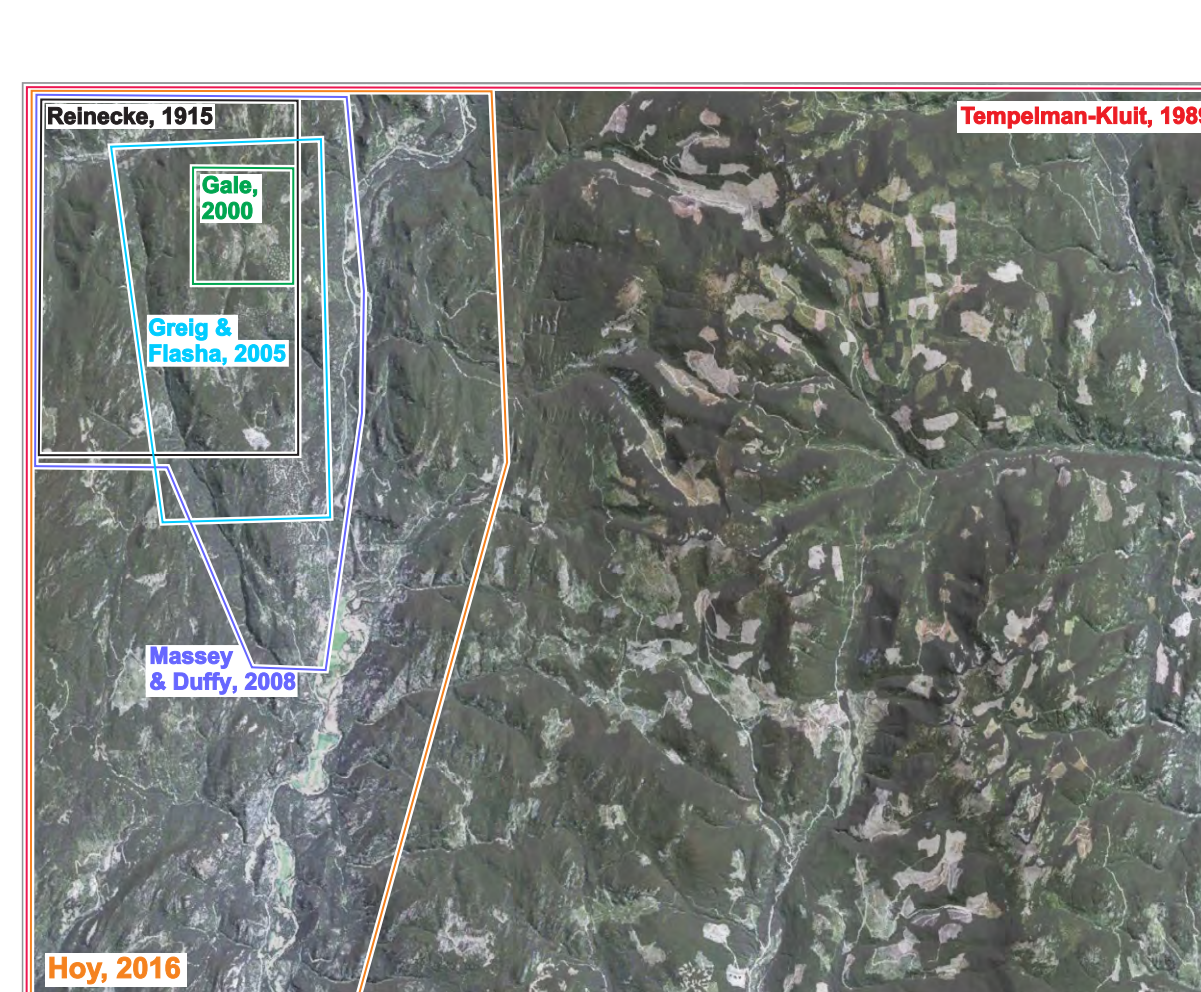
Reinecke, L. (1915): Ore deposits of the Beaverdell map area; Geological Survey of Canada, Memoir 79, 172 p.

Tempelman-Kluit, D. J. (1989): Geology, Penticton, British Columbia; Geological Survey of Canada, Map 1736A, scale 1:250 000.

Other

Canadian Aeromagnetic Data Base (2010): Geoscience Data Repository, Geological Survey of Canada, Earth Sciences Sector, Natural Resources Canada, Government of Canada.

Jackaman, W. (2010): QUEST-South Project Sample Reanalysis; Geoscience BC, Report 2010-4, 4 p.



Acknowledgements

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MINFILE

Number	Name	Status	Commodities	Deposit Type
082ESE066	Gateway	showing	Au, Cu, Ag	I05: polymetallic Ag-Pb-Zn veins
082ESE067	O.K.	past producer	Au, Ag, Cu, Pb, Zn	I01: Au-quartz veins
082ESE068	Mogul	past producer	Au, Ag	I01: Au-quartz veins
082ESE069	Silver Dollar	showing	Au, Ag	I01: Au-quartz veins
082ESE096	Trav	showing	granite	R03: dimension stone
082ESE100	Larry	showing	Cu, Au	vein, breccia, disseminated
082ESE104	Rusby	showing	Cu, Au	breccia
082ESE109	Barnato	past producer	Au, Ag, Cu, Pb, Zn	I05: polymetallic Ag-Pb-Zn veins
082ESE111	Montana	showing	Cu, Ag, Zn, Pb, Au	I05: polymetallic Ag-Pb-Zn veins
082ESE157	Hackla	showing	Au, Ag, Cu, Zn	I01: Au-quartz veins
082ESE168	Mayflower	showing	Au, Ag, Cu	I01: Au-quartz veins
082ESE175	Gut	showing	Au	I01: Au-quartz veins
082ESE176	Lou	showing	Cu, Zn, Ag	granite, dimension stone
082ESE214	Gable	prospect	Au, Ag, Cu	R03: dimension stone
082ESE217	Bluejay	showing	Au, Ag, Cu	I01: Au-quartz veins
082ESE240	San Pedro Quarry	producer	granite	R03: dimension stone
082ESE244	Kingston	showing	Au, Ag, Cu, Zn	I01: Au-quartz veins
082ESE245	Highland Mary	showing	Au, Ag	I01: Au-quartz veins
082ESE246	Maybe	past producer	Au, Ag, Cu, Pb, Zn	I05: polymetallic Ag-Pb-Zn veins
082ESE252	Volcano	showing	Ag, Zn, Pb, Cu, Au	I05: polymetallic Ag-Pb-Zn veins
082ESE253	Riverside	showing	Au, Ag, Zn, Cu	I05: polymetallic Ag-Pb-Zn veins
082ESE254	RCJV 24	showing	Cu, Zn, Ag, Pb	I05: polymetallic Ag-Pb-Zn veins
082ESE256	Crystal	showing	F, Mo, Ag	I11: barite-fluorite veins

BC Geological Survey (2016): MINFILE BC mineral deposits database; BC Ministry of Energy and Mines, BC Geological Survey, URL: <http://minfile.ca/> [September 2011], (update September 2016 with date of data download)



Looking south along the Crouse Creek valley, towards Christian Valley in the distance.