

GEOLOGICAL LEGEND

- QUATERNARY DEPOSITS**
- Qg** Glacial ice cover
 - Qal** Extensive areas of unconsolidated glacial till and poorly sorted alluvium
- INTRUSIVE ROCKS**
- eTg, eTgd** Coast Plutonic Complex, dominantly granodiorite and other undifferentiated granitoids.
 - IKg, IKgd** Late Cretaceous undifferentiated granitoid rocks; granodiorite. Mainly associated with the Coast plutonic complex
 - Kg** Undifferentiated Cretaceous granitoid rocks (in part equivalent to IKg).
 - KTg** Undifferentiated Cretaceous to Tertiary granitic rocks
 - eKg, eKt** Early Cretaceous undifferentiated granitoid rocks; tonalite.
 - mJg** Middle or late Jurassic granitoids.
 - eJgd, eJh** Hale Mountain Granodiorite and related(?) hornblende (184-187 Ma).
 - ITrgd, ITrhg** Granodiorite, minor leucogranite, quartz diorite, and gabbro of late Triassic age. May be altered or slightly deformed, includes the Bennett pluton.
 - PTrgd** Permo-Triassic(?) intrusive rocks of unknown affinity.
- LATE MESOZOIC/TERTIARY EXTRUSIVE ASSEMBLAGES**
- Es** Skukum Group; mainly intra-caldera facies dominated by intermediate to felsic tuffs and flows of Eocene age.
 - eEs** Skoko Group, undivided; aerially extensive rhyolite to andesite breccia and tuff of Early Eocene age.
 - PT** Tagish Volcanic Suite; dominantly intra-caldera megabreccia and intermediate to felsic tuffs and flows of Paleocene age.
 - KM** Montana Mountain Suite; Mainly intermediate to felsic tuffs and flows.
 - IKiv** Windy-Table Volcanic Suite; Quartz-phyric ash flows and intermediate breccia and tuff.
 - ImJv** Tutshi Volcanic Suite; Basalt to dacite flows and tuff of interpreted lower to middle Jurassic age.
 - IJl** Laberge Group, undifferentiated; Includes siltstone, arenaceous greywacke, argillite, and conglomerate of Early Jurassic age.
 - IJlg** Laberge Group; mainly medium to coarse, quartz-bearing wacke.
 - IJla** Laberge Group; mainly argillite with subordinate siltstone and wacke.

- OLDER VOLCANIC ASSEMBLAGES, SEDIMENTARY AND METAMORPHIC ROCKS**
- STIKINE(?) TERRANE**
- uTrs** Stuhini Group, undifferentiated; Includes felsic-phyric and pyroxene-phyric flows, tuff, tuffite, and breccia; conglomerate, limestone, argillite.
 - uTrss, uTss** Stuhini Group; dominated by volcanic derived sediments of coarse conglomerate to silty argillite composition.
 - uTrsv, uTsv** Stuhini Group; dominated by bladed plagioclase and pyroxene-phyric flows rocks (lower) or intermediate tuffs (higher in section).
 - PPmb** Boundary Ranges Metamorphics, undifferentiated; Metamorphosed siltstone, greywacke, tuff, greenstone, and limestone metamorphosed to transitional greenschist-amphibolite facies, regionally retrograded. Current data permits a Permian to Devonian age.
- CACHE CREEK TERRANE**
- MTc, MTc** Cache Creek Complex, undifferentiated; Sheared melange consisting of pods of ultramafic rocks, greenstone, marble, chert, and clastics in a sheared matrix of greywacke and argillite. Mississippian to Late Triassic age.
 - MTcS, MTcS** Cache Creek Complex; Mainly pelagic and hemipelagic sediments
 - MTcI, MTcI** Cache Creek Complex; Mainly limestone
 - MTcB, MTcB** Cache Creek Complex; Pillow basalt, gabbro and minor ultramafic tectonite.
 - Trp** Peninsula Mountain Volcano-Sedimentary Suite, undivided; Includes basaltic to rhyolitic tuff, breccia and tuff of Middle to Late Triassic age.
- NISLING TERRANE?**
- PPgn** Nisting Assemblage; Includes semipelitic, pelitic, carbonate, amphibolite and calcisilicate schist and gneiss. Paleozoic and Late Proterozoic protoliths are most likely.
 - PMgn** Gneiss and schist; age and affinity uncertain, but possibly Mesozoic or older.

Geological compilation based on the following references and unpublished mapping by:

Mitch Mihalyuk and Moira Smith

References

Bullman, T.R. (1979): Geology and Tectonic History of the Whitehorse Trough West of Atlin, British Columbia, unpublished Ph.D. thesis, Yale University, 284 pages.

Chislie, R.L. (1957): Bennett, British Columbia; Geological Survey of Canada, Map 19-1957 with Descriptive Notes.

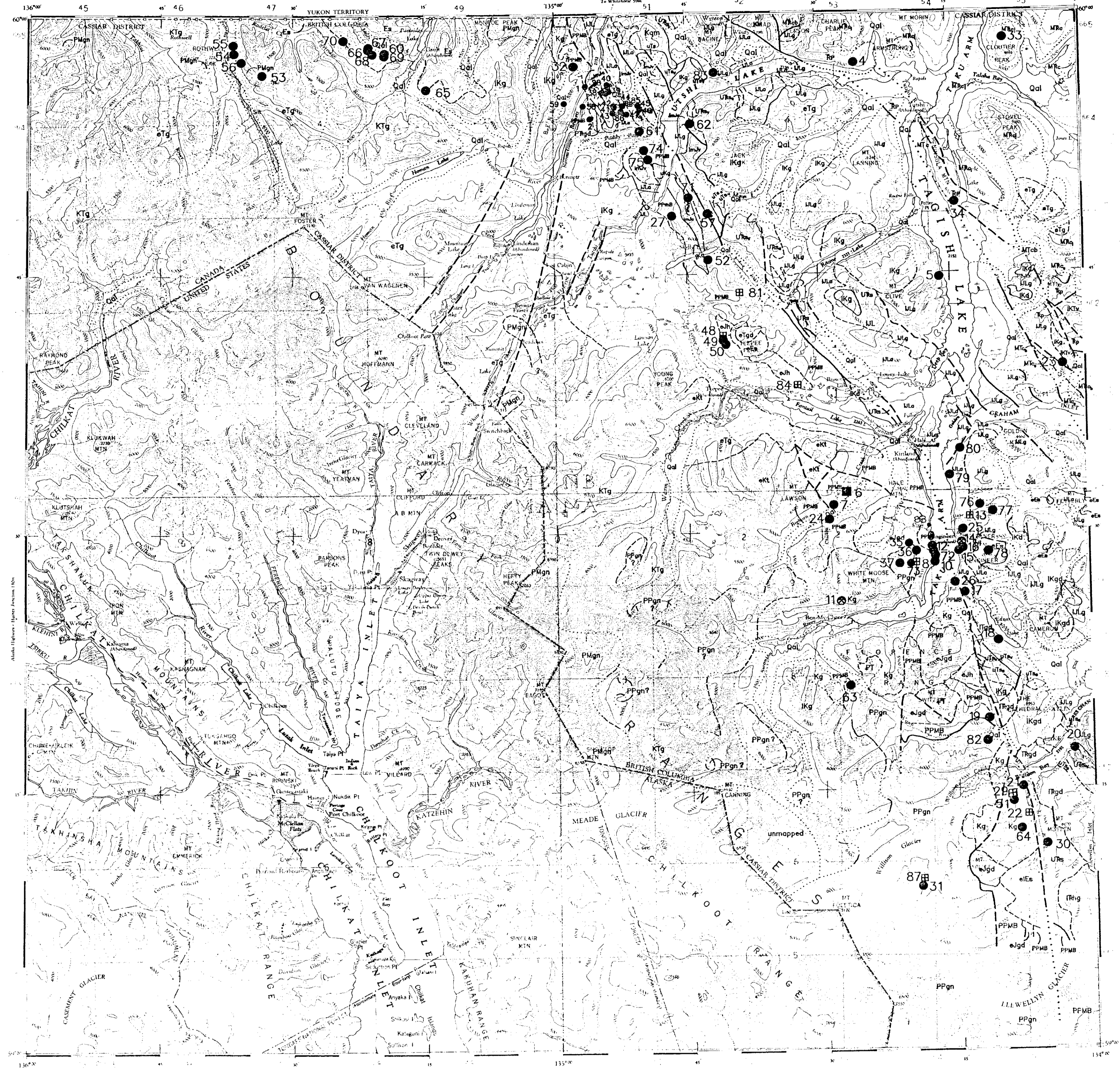
Mihalyuk, M.G. and Rouse, J.N. (1988b): Geology of the Tutshi Lake Area (104M/15); B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1988-5.

Mihalyuk, M.G., Currie, L.D., Mountjoy, K. and Wallace, C. (1989a): Geology of the Fantail Lake (West) and Warm Creek (East) Map Area (NTS 104M/9W and 10E); B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1989-13.

Mihalyuk, M.G., Mountjoy, K.J., Currie, L.D., Lofthouse, D.L. and Winder, N. (1990): Geology and Geochemistry of the Edgar Lake and Fantail Lake Map Area, NTS (104M/8, 9E); B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1990-4.

Mihalyuk, M.G., Smith, M.T., Gabites, J.E., Runkle, D. and Lefebvre, D. (1992): Age of Emplacement and Basement Character of the Cache Creek Terrane as Constrained by New Isotopic and Geochemical Data. *Canadian Journal of Earth Sciences*, pages 2463-2477.

Mihalyuk, M.G., and Smith, M.T. (1992): Highlights of 1991 Mapping in the Atlin-west Map Area (104N/12). *Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork 1991, Paper 1992-1*, pages 221-227.



CODE INDEX		COMMODITY INDEX	
AG	Silver	Antimony	SB
AS	Arsenic	Asene	SB
AU	Gold	Cobalt	CO
CU	Copper	Fluorite	FL
FE	Iron	Lead	LE
FE	Fluorite	Lead	LE
LS	Limestone	Limestone	LS
MA	Magnetite	Magnetite	MA
MT	Magnetite	Magnetite	MA
NI	Nickel	Nickel	NI
NI	Nickel	Nickel	NI
PT	Permalloy	Permalloy	PT
SI	Silver	Tellurium	TE
SN	Stibnite	Tellurium	TE
TI	Tellurium	Tellurium	TE
TI	Tellurium	Tellurium	TE
UR	Uranium	Uranium	UR
WO	Wolframite	Uranium	UR
ZN	Zinc	Zinc	ZN

BC Ministry of Energy, Mines and Petroleum Resources

Geological Survey Branch

MINFILE MAP NTS 104M SKAGWAY

This MINFILE release updated by: D. Jakobsen

Date Revised: July 1993 / Date Updated: March 1994

Scale 1:250 000

Total Number of Mineral Occurrences: 87

Status

- ⊗ Producer
- ⊙ Past Producer
- ▣ Developed Prospect
- ▢ Prospect
- Showing

MAP LEGEND - 104M

MINFILE NUMBER	NAME	COMMODITIES
001	GROFFRON	AG AU PB AS ZN
002	SILVER GULCH	AU CU AG
003	BEN 1	AG AU PB ZN SB
004	TURISH LAKE	PB ZN
005	LAKEFRONT	SB PB ZN
006	SPOKANE	AU AG PB CU ZN
007	BIGHORN	AU AG PB CU ZN
008	ROPER	AU AG PB CU ZN
009	WHITE MOOSE NORTH (L. 1278)	CU PB ZN AG
010	WHITE MOOSE SOUTH (L. 12)	AU AG CU PB ZN
011	BENNY CHREE	AU AG CU PB ZN
012	WHITE MOOSE SHAFT (L. 3282)	AU AG PB CU
013	HAPPY SULLIVAN	AU AG SB 1E
014	ENGINEER MANE	AU AG
015	KPKLAND	AU AG
016	GLEASER	AU AG
017	ANYOK-HOODE (L. 4637, 4670)	CU NI CO
018	EDGAR LAKE	ZN
019	NELSON LAKE	AG AU CU PB
020	COWPENS ISLAND	CU
021	CALLAGHAN	AU AG
022	LAVERGNE	CU AG AU MO WO CO FE
023	GRAHAM CREEK	AU AG
024	RED POINT	AU AG
025	SWEETSTAKE	AG AU CU PB ZN MO
026	BIRD PEAK	AU AG CU PB ZN
027	JESSE	AU AG SB PB
028	MOLLY	MO CU SB PB
029	MUSSEN	CU AG ZN PB CU AU
030	JACKIE	LS
031	BENNETT LAKE	LS
032	TALANA BAY	LS
033	PRINCEVALE MOUNTAIN	AU AG PB CU ZN
034	BUCHANAN CREEK	AU AG PB CU ZN
035	RUPERT NORTH	AU AG PB SB AS
036	FEE GLACIER	AU AG ZN CU PB
037	GALUS WEST	AU AG ZN CU PB
038	GALUS 2	AG AU ZN
039	LEWIS	AG AU ZN
040	BENFOND	AG AU ZN SB
041	BEN-GAMP	AU AG CO CU PB
042	BEN-GLACIER	AU AG CO CU PB
043	LD	AU AG CU
044	BEN-NORTHEAST	AU AG CU
045	BEN-SOUTHEAST	AU AG CU
046	BEN-FORT	AU AG CO CU FE MA
047	TR-MAN	MA FE
048	TR-CAMP	AG AU CO CU MA
049	TR-CENTRAL	MO CU PB
050	MOLLY SOUTH	CU PB
051	SEELY	MO
052	MO	MO
053	MO	MO
054	SIT CREEK	ZN
055	RO CREEK	AG ZN PB AS CU AU
056	MOON LAKE	UR TH
057	NET 6	AG UR TH MO WO
058	NET 8	AG UR TH MO WO
059	JONES	UR TH ZN PB SB CU AS
060	CATFISH	AG AU
061	PIKE	CU AG AU
062	PIKE	CU AG AU
063	KAM	AG AU
064	NA 3062	CU AG AU
065	MAP	AG AU CU PB ZN
066	YAK	PB AG AU CU ZN
067	YAK NORTH	PB AG AU CU ZN
068	YAK SOUTH	PB AG AU CU ZN
069	JULIA	AG AU ZN CU
070	EAGLE	AG AU PB ZN CU
071	BIG THING	AU AG PB
072	WHITE MOOSE-B	AG PB
073	RURELLE	AG AU PB ZN CU AS
074	CATFISH MIDDLE RIDGE	AU AG CU PB ZN AS SB
075	CATFISH SOUTH MOUNTAIN	AG AU PB ZN AS SB
076	GOLDEN BEE 2	SB AG AU AS
077	BEE PEAK	PB AG AU PB ZN AS SB
078	GLEAN	PB AG AU
079	MASS	AU AG CU PB AS CU
080	QUANTITY	AU AG CU PB AS CU
081	CRINE	AU AG CU PB
082	DELTA	AU AG CU
083	DELTA	AU AG CU
084	UM	AU AG
085	SOARD	AU AG SB PB CU AS SB
086	COWBOY	AG AU PB CU AS SB
087	FALCON	AG AU PB CU AS SB
088	THOS-1	RU AG CU