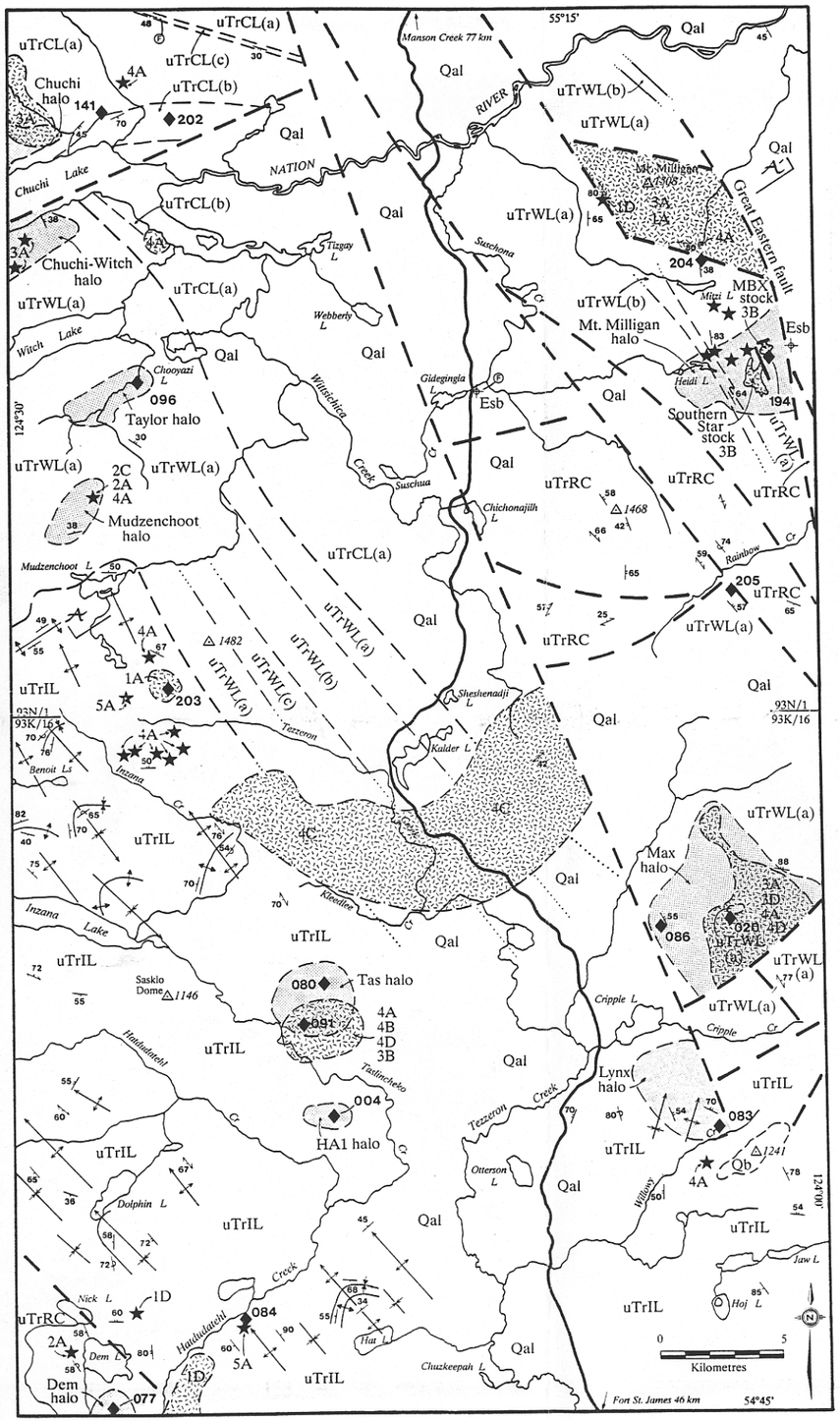
→MT. MILLIGAN

Jan. 30/91

885752



LEGEND

LAYERED ROCKS

QUATERNARY

Qal — *UNCONSOLIDATED GLACIAL TILL AND ALLUVIUM*

QUATERNARY?

Qb — *OLIVINE-BEARING BASALT*

EOCENE - OLIGOCENE

Esb — *BASALT, VOLCANIC WACKE AND FOSSILIFEROUS VOLCANIC ASH-RICH MUDSTONE*

UPPER TRIASSIC(-JURASSIC?)

TAKLA GROUP

uTrCL — **CHUCHI LAKE FORMATION: (A)** *GREEN AND MAROON HETEROLITHIC AGGLOMERATE;* **(B)** *PLAGIOCLASE-PORPHYRY TRACHYTE FLOWS AND BRECCIAS;* **(C)** *INTERVOLCANIC SEDIMENTS*

uTrWL — **WITCH LAKE FORMATION: (A)** *AUGITE (± PLAGIOCLASE ± HORNBLENDE) PORPHYRY AGGLOMERATE, VOLCANIC BRECCIA, LAPILLI TUFF AND EPICLASTIC SEDIMENTS;* **(B)** *TRACHYTE FLOWS AND TUFF-BRECCIAS;* **(C)** *PLAGIOCLASE (± AUGITE) PORPHYRY LATITE FLOWS AND AGGLOMERATES*

uTrIL — **INZANA LAKE FORMATION:** *VOLCANIC SANDSTONE, SILTSTONE, MUDSTONE, ARGILLITE, LAPILLI TUFF AND SEDIMENTARY BRECCIA*

uTrRC — **RAINBOW CREEK FORMATION:** *GREY SLATE, THIN-BEDDED SILTSTONE, MINOR VOLCANICLASTIC SEDIMENTS*

INTRUSIVE ROCKS

LATE CRETACEOUS-EARLY TERTIARY?

1 — **GRANITE SUITE: (1A)** *EQUIGRANULAR, COARSE GRAINED GRANITE;* **(1D)** *RHYODACITE/DACITE*

LATE TRIASSIC-EARLY JURASSIC

2 — **SYENITE SUITE: (2A)** *COARSE GRAINED, EQUIGRANULAR SYENITE;* **(2C)** *MEGACRYSTIC SYENITE*

3 — **MONZONITE SUITE: (3A)** *EQUIGRANULAR, COARSE GRAINED MONZONITE;* **(3B)** *CROWDED PLAGIOCLASE PORPHYRITIC MONZONITE;* **(3D)** *SPARSELY PORPHYRITIC LATITE*

4 — **DIORITE/MONZODIORITE SUITE: (4A)** *COARSE GRAINED, EQUIGRANULAR DIORITE/MONZODIORITE;* **(4B)** *CROWDED PLAGIOCLASE PORPHYRITIC DIORITE;* **(4C)** *MEGACRYSTIC PLAGIOCLASE (± AUGITE) PORPHYRITIC DIORITE;* **(4D)** *SPARSELY PORPHYRITIC ANDESITE*

5 — **GABBRO/MONZOGABBRO SUITE: (5A)** *COARSE GRAINED, EQUIGRANULAR GABBRO/MONZOGABBRO*

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources
GEOLOGICAL SURVEY BRANCH

GENERALIZED GEOLOGY NEAR THE MT. MILLIGAN DEPOSIT (93N/1, 93K/16)

Geology by J. Nelson, K. Bellefontaine, K. Green, and M. MacLean

REFERENCES

Nelson, J., Bellefontaine, K., Green, K. and MacLean, M. (1991): Geology and Mineral Potential of the Wittsichica Creek and Tezzeron Creek Map Areas (93N/1, 93K/16), *British Columbia Ministry of Energy, Mines and Petroleum Resources*, Open File 1991-3 (4 Sheets - 1:50 000 Scale).

Nelson, J., Bellefontaine, K., Green, K. and MacLean, M. (1991): Regional Geological Mapping Near the Mount Milligan Copper - Gold Deposit (93N/1, 93K/16), *British Columbia Ministry of Energy, Mines and Petroleum Resources*, Geological Fieldwork, 1990, Paper 1991-1, pages 89-110.

SYMBOLS

- geologic contact (approximate, inferred)
- lithologic contact (approximate, inferred)
- fault (defined, inferred)
- F_1 axial trace (anticlinal, synclinal)
- F_2 axial trace (antiformal, synformal)
- bedding (tops known, tops unknown, overturned) 50 50 50
- foliation 78
- large intrusion
- small intrusion
- area of alteration
- mineral occurrence and MINFILE number ◆086
- fossil locality Ⓕ
- diamond drill hole
- elevation in metres △ 1482