

r.
CORPORATION FALCONBRIDGE COPPER
EXPLORATION

Memorandum

Date: November 13, 1985

To: A.J. Davidson

Copies To: file

827401

From: D. Lefebure

Subject: Detailed Geology Maps, Mt Sicker Project, B.C. 92 B/13

Work Done

Most of the CFC grid on Mt Sicker has been mapped at a scale of 1:1000. The western half of the grid was mapped by I. Pirie and M. Bursen in 1983 and M. Legault, J. Ikingura and I continued this work (1984) over much of eastern part of the grid. This past summer I extended the mapping to the south of the Lenora and Tye Mines using SEREM lines and along the Chemainus River.

Map Organization

Oversize map sheets were used in 1983 to plot the data preparatory to compiling the information at 1:2,500 and most of the geological information was recorded in field notebooks. The following years recorded all the data directly on field sheets and then transferred to base maps. These rectangular maps (30" by 42") are organized into a orthogonal grid with overlap on all sides (Figure 1). The base maps are labelled according to the grid coordinates of their lower right hand corner. The existing maps are:

4N row	3W 5E 13E	29E
1S row	3W 5E 13E 21E	29E
7S row	13E 21E	29E
13S row	13E 21E	
19S row	5E	

Notebooks were only used for survey information (except on the Chemainus River); all geological information was copied onto the base maps. The 1984 map legend is appended (Table 1).

The original maps are kept in the Duncan field office and sepia copies of completed maps are kept in the hanging files in the Delta office.

DVLM11.2

David Lefebure

LOCATION of 1:1000 BASE MAPS

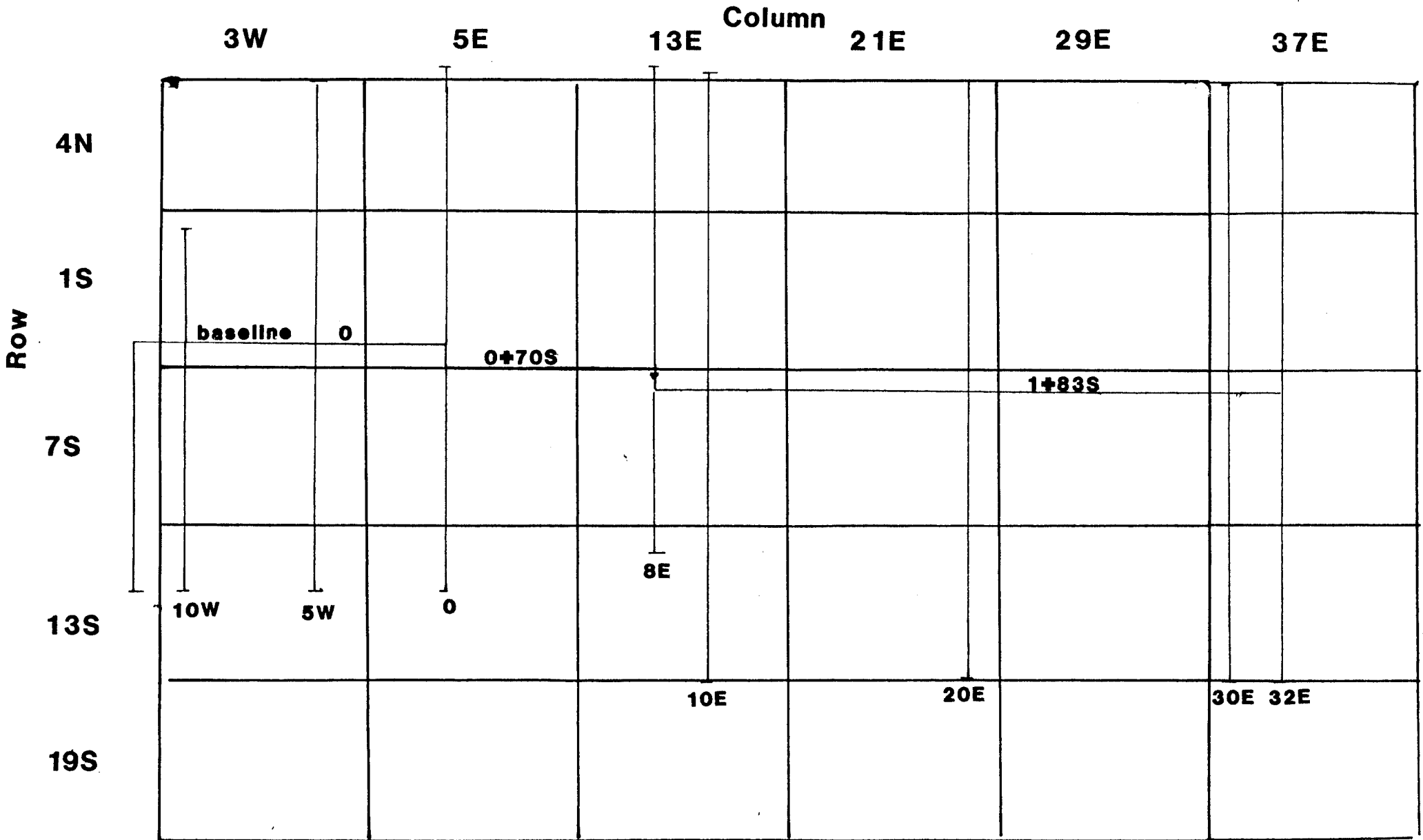


Figure 1. Location of 1:1,000 basemaps for Mt Sicker project.

Sheets overlap E-W and N-S.

Table 1
MAP LEGEND FOR 1:1000 SCALE MAPS, 1984

COMPOSITION

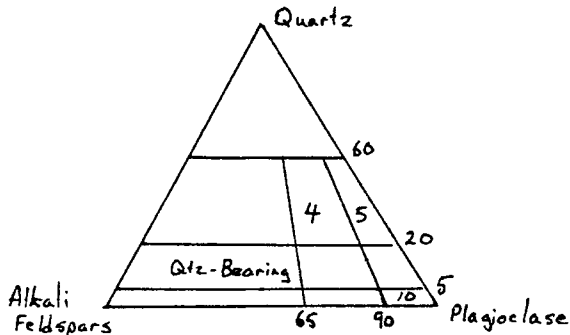
Volcanic Rocks

Basalt	-	Bas
Andesite	-	An
Rhyodacite	-	Rhydac
Rhyolite	-	Rhy
Vitrophyre	-	Vitr
Felsic	-	Felsic
Mafic	-	Mafic
Intermediate	-	Int

TEXTURE

Tuff (< 2mm)	-	Tuff
Lapillistone (2-64mm)	-	Lap,
Breccia (> 64mm)	-	Bx,
Agglomerate (> 64mm, bombs!)	-	Agg

INTRUSIVE ROCKS



10 Diabase	-	Dia
10 Diorite	-	Dior
10 Gabbro	-	Gab
5 Tonalite	-	Ton
4 Granodiorite	-	Gndior

SEDIMENTARY ROCKS

Argillite	-	Arg	Graywacke	-	Grwk
Arkose	-	Ark	Iron Formation	-	I.F.
Chert	-	Chert	Shale	-	Sh.
Conglomerate	-	Congl.	Limestone	-	Lst
Exhalative Tuff	-	Exhal.			

PRIMARY STRUCTURES

Massive Flow	-	Mfl
Lobe Lava	-	LL
Flow Breccia	-	Fbx
Breccia	-	Bx
Flow Banded	-	Fb
Anygdaloidal	-	⊙
Spherulitic	-	*
Varioles	-	⊗
Columnar Joints	-	C.J.
Pillows	-	⌒ , Pill
Flow Contact	-	Fl ctc -.-.-
Scoriaceous	-	Scor
Pumaceous	-	Pum
Flow Contact Bx	-	—△—△—
Intrusive Contact	-	— — —
Gradational Contact	-	

PRIMARY TEXTURES

Aphanitic	-	Aphan
Aphyric	-	Aphyr
Fine-grained	-	fgr
Medium-grained	-	mgr
Coarse-grained	-	cgr
Ophitic	-	oph
Subophitic	-	suboph
Perlitic	-	perlitic
Porphyritic	-	☐ , > 5% phenocrysts
Colour Index	-	C.I.
Massive	-	mass.
Accretionary Lapilli	-	Accret.
Lineament	-	—————
Amygdule/Spherulite	-
Zone Contact		

SECONDARY STRUCTURES

Vein	-	
Joint	-	
Foliation	-	
Lineation	-	
Shear Zone	-	
Fault	-	
Tectonic Breccia	-	Tect. Bx
Intrusive Breccia	-	Int. Bx
Shattered	-	Shat
Fractured	-	Ftr
Drag Fold	-	
Thrust Fault	-	

ALTERATION FACIES

Carbonate	-	carb.
Silicification	-	Sil
Chloritization	-	Chl
Sericitization	-	Ser
Epidote/quartz	-	Epid
Saussuritization	-	Sauss
Dalmationite	-	Dal
Grid	-	Grid
Weak	-	Wk
Strong	-	Str
Pink Alteration	-	Pk

MINERALS

Actinolite	-	Act
Albite	-	Alb
Alkali Feldspar	-	Kspar
Andalusite	-	Andal
Anthophyllite	-	Antho
Biotite	-	Bio
Chlorite	-	Chl
Chloritoid	-	Chloritd
Dolomite	-	Dol
Epidote	-	Epi
Gedrite	-	Ged
Hornblende	-	Hbld
Leucoxene	-	Lx
Hematite	-	Hem
Magnetite	-	Mag

SECONDARY TEXTURES

Porphyroblasts	-	Por
Recrystallized	-	Recryst.
Spotted	-	Spot

GEOGRAPHIC SYMBOLS

Outcrop	-	x,
Float	-	F
Drill Hole	-	
Survey Point	-	
Shaft	-	
Adit	-	
Pit, Trench	-	
Claim Post	-	

No 48727
CR II
2E2S
10/26/83

Scarp	-	
Road	-	
Building	-	
Creek	-	
Road (overgrowth)	-	
Sericite	-	Ser
Siderite	-	Sid
Chalcopyrite	-	cp
Pyrite	-	py
Pyrrhotite	-	pyr
Sphalerite	-	sphal
Galena	-	Ga
Garnet	-	Gt
Barite	-	Ba

analyses - SiO₂, CaO, MgO, Na₂O, K₂O

TiO₂, Ba, Cu, Zn