FALCONBRIDGE NICKEL MINES LIMITED METALLURGICAL LABORATORIES THORNHILL, ONTARIO

FALCONBRIDGE METALLURGICAL LABORATORIES

Mineralogical Examination of 4 Samples from the Babe Gold Deposit, B.C.

by J.E. Muir

September 6, 1978

PROJECT NO.: JO#2468, 302

SAMPLE NO. : L#78-307

KEYWORDS: Exploration, Rhyolite

COPIES TO: HTB/PGT, RAB, AMC/JCC/WDH/GPM/WBGW, JJMcD/BDS, RB/Min. File,

S.N. Charteris

FALCONBRIDGE METALLURGICAL LABORATORIES

MINERALOGICAL REPORT NO. 1089 -

TO:	S.N. Charteris		PROJECT No.	J0#2468-780906			
FROM:	J.E. Muir		SAMPLE No.	(302) L#78-307			
DATE:	September 6, 1978						
SUBJECT:	Mineralogical Examination of 4 Samples from the Babe Gold Deposit, B.C.						
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DISTRIBUTION:	HTB/PGT, RAB, AMC/JCC/WDH/	GPM/WBGW, JJMcD/BDS, E	RB/Min. File				
DESCRIPTION	OF SAMPLE: INFORMATION REQUEST						
Four samples of diamond drill core labelled 78-2 @ 51', 173', 280' and 78-3 @ 384' from the Babe Gold deposit located on Graham Island in the Queen Charlotte Islands were received on July 17th for a reconnaissance examination.							
PROCEDURES:	Spectrochem. Analysis	■ Chemical Analysis	🗷 X.R.D.				
	Optical Microscopy	☐ Electron Probe					
RESULTS:							
"rhyolite	Pol-thin sections PTS-5321, ions of the 4 samples and br breccia" from DDH 78-2 constrounded fragments of the fol	iefly examined. The ist of variable propor	samples of				
	The state of the s	yolite porphyry; orphyritic andesite;					

Equigranular silicified rhyolite;

5. Brownish, devitrified basalt(?).

Coarse quartz grains;

ceous and consists predominantly of quartz (± chlorite, sericite). Minor to trace amounts of pyrite and marcasite are disseminated throughout the fragments and the matrix. The habit of the pyrite/marcasite grains varies from euhedral to spheroidal to acicular. These grains have a maximum grain size of ~0.10 mm and average ~0.01-0.02 mm. Due to the intense silicification, it is not possible to determine with a high degree of certainty whether the matrix material has been derived through fragment abrasion or from another source. However, the tuffaceous nature of the matrix in the sample from 173' suggests that this particular sample is most likely a pyroclastic.

The sample from DDH 78-3 consists of chalcedonic quartz penetrating a highly silicified, sericite-bearing porphyritic rhyolite.

Assays are given in Table I attached, together with the corresponding section assays as reported by Consolidated Cinola Mines Ltd.

JEM/cat Attach. J.E. Muir

TABLE I: Assays (troy oz/ton)

	FML.		Consolidated Cinola	
Sample Sample	<u>Au</u>	Ag	Au	
78-2 @ 51 '	0.017	0.040	0.06/400 ft	
@ 173 '	0.030	0.053	0.06/400 ft	
@ 280 '	0.031	0.068	0.10/153 ft	
78-3 @ 384°	0.023	0.098	Not Reported	

Note: FML assays are averages of 2 assay beads for each sample.