

GEOLOGICAL REPORT

Claims: MOSS A-B-C-D-E-F Rec. # 4204 - 4209 (3) incl.
CORA #1 & CORA #2 Rec. # 4196 (2) & 4197 (2)

Lillooet M.D.

NTS Location : Map 92-J-15W

Coords: N 5633000 m , E 501100 m.

Lat. N 50° 51', Long. W 122° 59'

Owners : Moss claims : Francis B. Whiting

Cora #1-#2 : Cora A. Whiting

Operator : Francis B. Whiting

Author of Report : Francis B. Whiting, P.Eng.

Date Submitted : February 8, 1990

SUB-RECORDER
RECEIVED
FEB 8 1990
M.R.# \$
VANCOUVER, B.C.

LOG NO: 02 15	RD.
ACTION:	
FILE NO:	

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,652

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
<u>A. INTRODUCTION</u>	
1. Location and Access	1
2. Property Definition	1
3. Summary of Work Done	2
4. Detailed Technical Data and Interpretation	2
5. Itemized Cost Statement	7
6. Recommendations	7
<u>B. AUTHOR'S QUALIFICATIONS</u>	8

APPENDIX : Assay Reports

Illustrations:

Map # 1 : Index Map

Map # 2 : Claim Map

Map # 3 : Regional Geology with legend on following page

Map # 4 : Local Geology - north side of Downton Lake

Map # 5 : Local Geology - south side of Downton Lake.

References : Geology of Bralorne Area; B.N. Church et al;
B.C. Open File # 88-3.

A. INTRODUCTION

1. LOCATION & ACCESS

The MOSS-CORA claims, which have been grouped as the " MOSS GROUP ", are situated on the north shore of Downton Lake 10 kilometres due west of Gold Bridge, B.C., at Lat. N50°51', Long. W 122°59'. The Moss B claim extends south across Downton Lake and in part extends a short distance up the south shore of the lake.

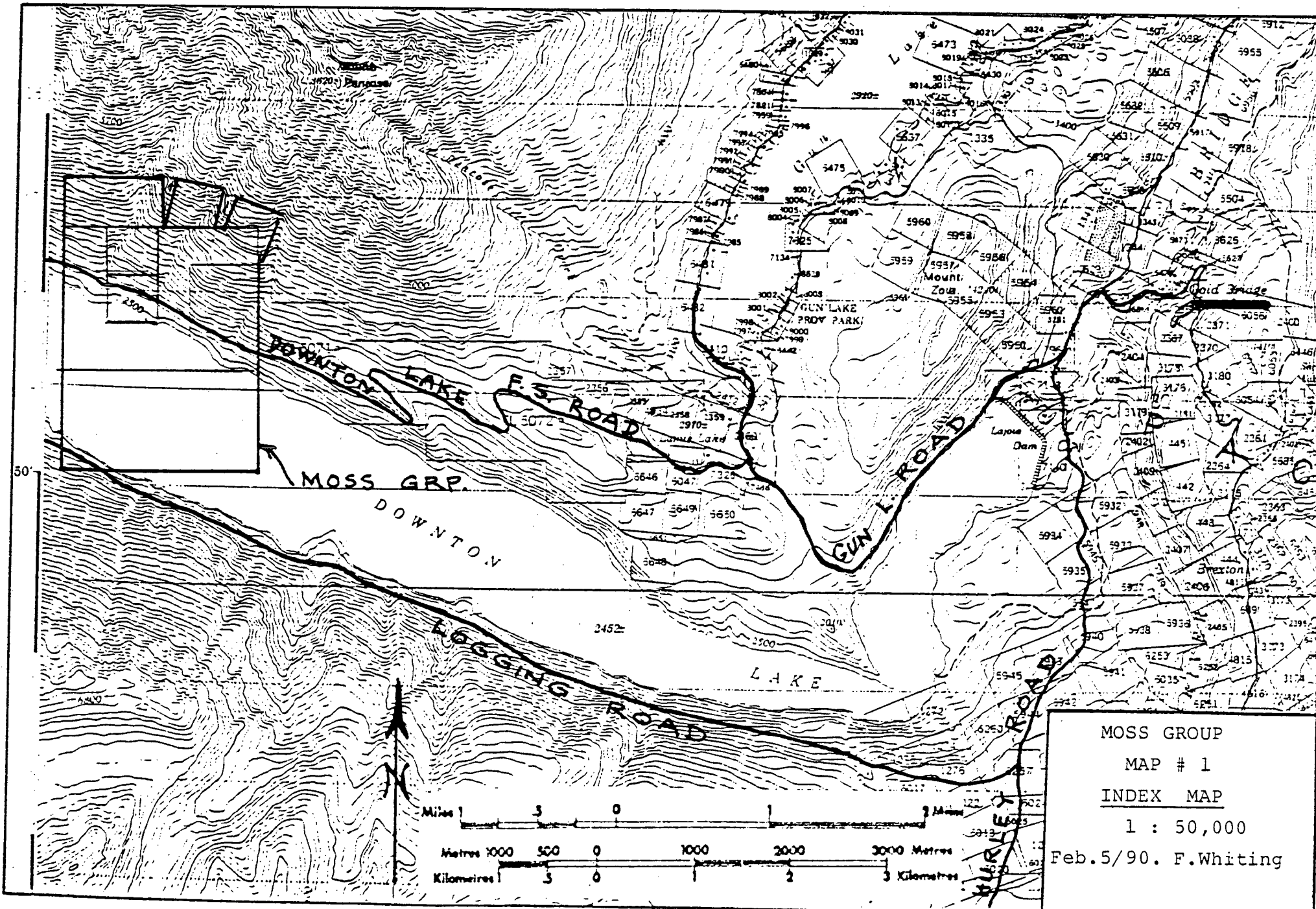
Access to the north shore of the lake is by the Downton Lake Forest Service Road which branches from the Gold Bridge - Gun Lake Road about 1 km south of Little Gun Lake. Access to the south shore of the lake is by a logging road that branches from the Hurley River Road about 2.5 km SW of Gold Bridge.

Elevations on the claims range from 760m at the lake shore to 1220 m up the slopes on the north side of the lake. Map #1 is the Index Map. Map # 2 is the Claim Map.

2. PROPERTY DEFINITION

The Moss Group consists of the Moss A-B-C-D-E-F mineral claims, Record # 4204 - 4209 (3) inclusive (Moss A is of 12 units, Moss B of 8 units and Moss C-D-E-F are 2-Post claims) and the Cora #1 - #2 claims, Rec. # 4196-4197 (2) 2-Post claims. The claims were staked in February and March, 1989. There is no record of prior stakings in this locality. Mapping and sampling were carried out during the summer of 1989 by F.B. Whiting. The Moss claims are owned by F.B. Whiting; the Cora 1-2 claims are owned by Cora A. Whiting. F.B. Whiting is the Operator.

The economic assessment of the claim group depends on the finding of gold-silver mineralization. The claims



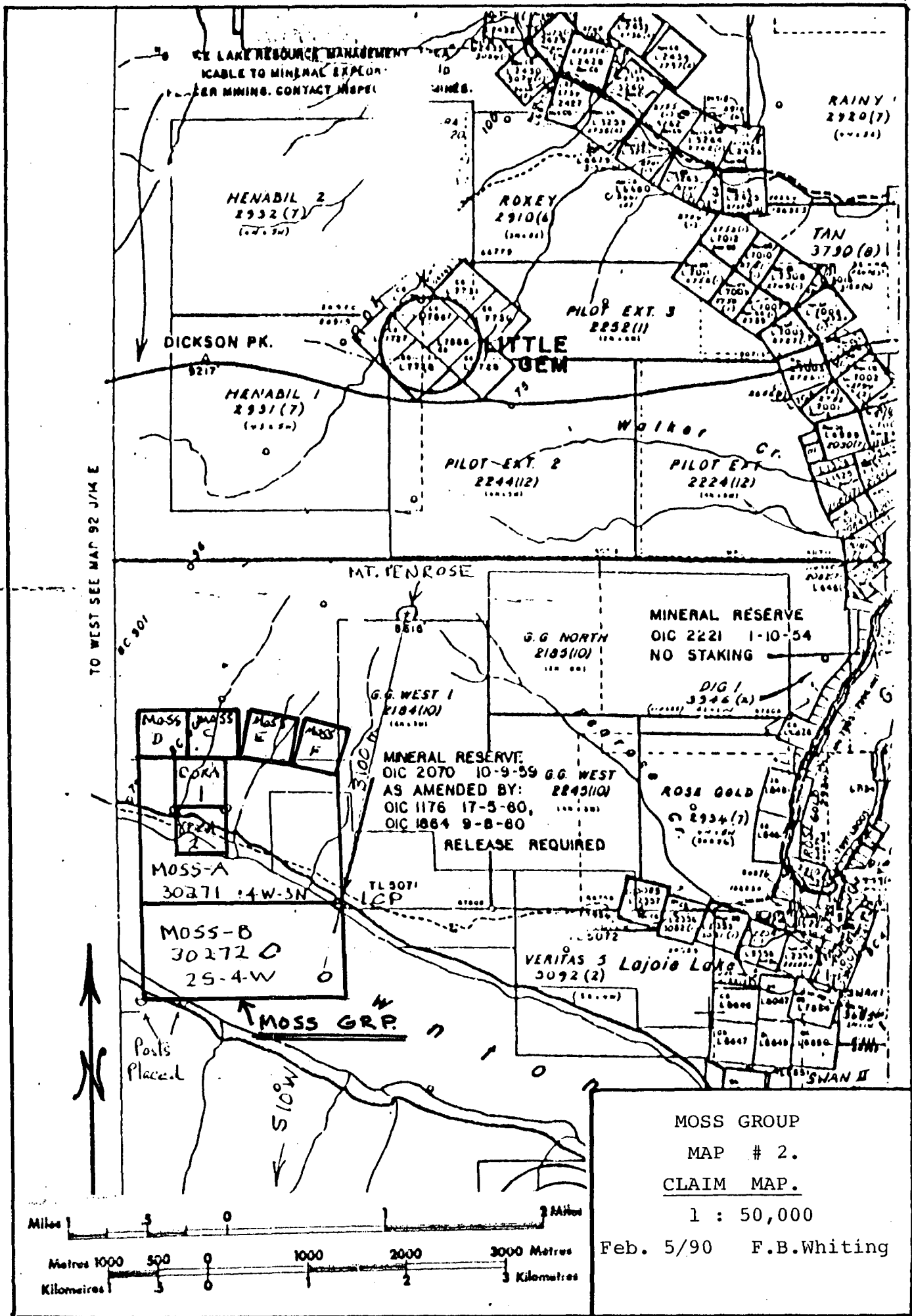
MOSS GROUP

MAP # 1

INDEX MAP

1 : 50,000

Feb. 5/90. F. Whiting



TO WEST SEE MAP 92 J/M E

MOSS D
 MOSS C
 MOSS E
 MOSS F
 CORA 1
 CORA 2
 MOSS-A
 30271 4W-3N
 MOSS-B
 30272 2S-4W

MINERAL RESERVE:
 OIC 2070 10-9-59 G.G. WEST
 AS AMENDED BY: 2243(10)
 OIC 1176 17-5-80,
 OIC 1864 9-8-80
 RELEASE REQUIRED

MINERAL RESERVE
 OIC 2221 1-10-54
 NO STAKING

DIG 1
 3346 (2)

ROSE GOLD
 2934 (7)

VERITAS 3
 3092 (2)

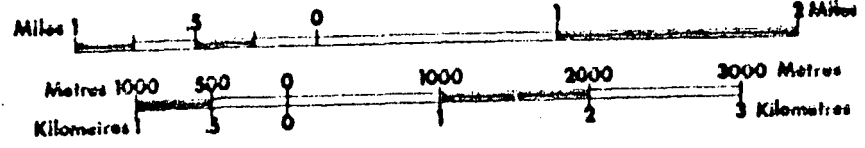
MOSS GROUP

MAP # 2.

CLAIM MAP.

1 : 50,000

Feb. 5/90 F.B. Whiting



are underlain by argillites and siltstones of the Triassic Noel Formation, bordered on the north by intrusive rocks (Eldorado Stock) and by dykes of granitic to granodioritic material along the south shore of the lake. Iron-staining and quartz veining is common in the sediments. Low assays of gold-silver were obtained from breccia exposures on the south shore of the lake. Anomalously high values in gold (over 2000 ppb) were found by B.N. Church in moss samples from two creeks draining the central portion of the group; these were the initial reason for the claims being staked. Moss samples taken by the author in 1989 did not confirm Church's assays, leaving the existence of a gold deposit somewhat questionable. Further prospecting and sampling is needed and appears to be justified based on the widespread iron veining and quartz veining, and local breccias, close to the contact between the sediments and the intrusive bodies.

3. SUMMARY OF WORK DONE

Outcrops along and above the roads on the north and south side of Downton Lake were mapped at a scale of 1:5000, covering an area of 40 ha. Three rock samples were taken and four moss samples. Work was done inside the Cora #1 and Cora #2 claims, and on surrounding parts of the Moss A and Moss B claims.

4. DETAILED TECHNICAL DATA AND INTERPRETATION

Map # 3 is a portion of B.N. Church's geological map from " Geology of the Bralorne Area " : B.C. Open File 1988-3 and the following page gives the relevant part of the legend for that map. Unit 3 is the Noel Formation of Triassic age, composed of argillites and siltstone with some calcareous zones. Unit Ca is Coast Intrusions of diorite, granite and granodiorite, of Cretaceous age.

DICKSON
PK
2809

DICKSON
Roxey

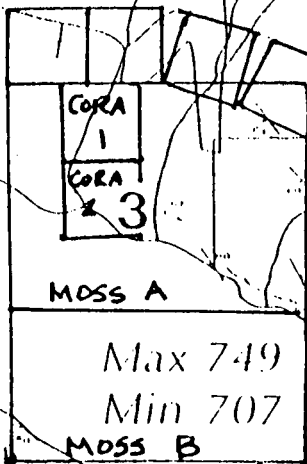
▲ NORTHERN GEM

Ca Walker

RANGE

PENROSE

2c



MOSS GP.

Downton

Ca

Gun

1a

Teibers

Assumel

Gun

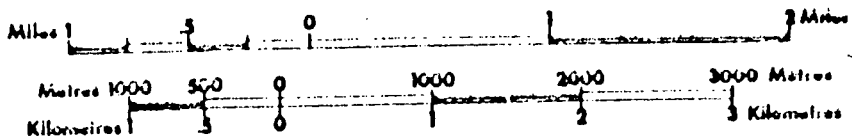
Gun
LAKE
PARK

1a

MOSS GROUP
MAP # 3
REGIONAL GEOLOGY

1 : 50,000

Feb. 5/90 F.B. Whiting



5

RELAY MOUNTAIN GROUP: *buchia-bearing grey shales, siltstones, tuffaceous and polymictic conglomerate*

4.

TRIASSIC

CADWALLADER GROUP:

4

HURLEY FORMATION: *soft brown and green argillites, siliceous and calcareous argillites with sandstone and conglomerate (4a), limestone (4b) and volcanoclastics (4c)*

3

NOEL FORMATION: *mainly black argillite and siltstone with some calcareous zones*

2

PIONEER FORMATION: *basaltic pillow lava (2a), aquagene breccia and lenses of limestone breccia (2b), tuffs and amygdaloidal lava (2c)*

PALEOZOIC

1

FERGUSSON GROUP: *mostly ribbon chert (1a), ranging to biotite quartz gneiss (1b), some marble bands (1c) and fine-grained amphibolite (1d)*

IGNEOUS INTRUSIONS

TERTIARY

D

REX PEAK PORPHYRY: *a felsic phase of the (Eocene) Mission Ridge pluton and equivalent stocks, sills and dykes*

CRETACEOUS

C

COAST INTRUSIONS: *biotite and hornblende diorite, granodiorite and granite (including the various phases of the Eldorado (Ca) and Bendor (Cb) stocks)*

MOSS GROUP

LEGEND FOR

REGIONAL GEOLOGY

By Church et al.

MESOZOIC

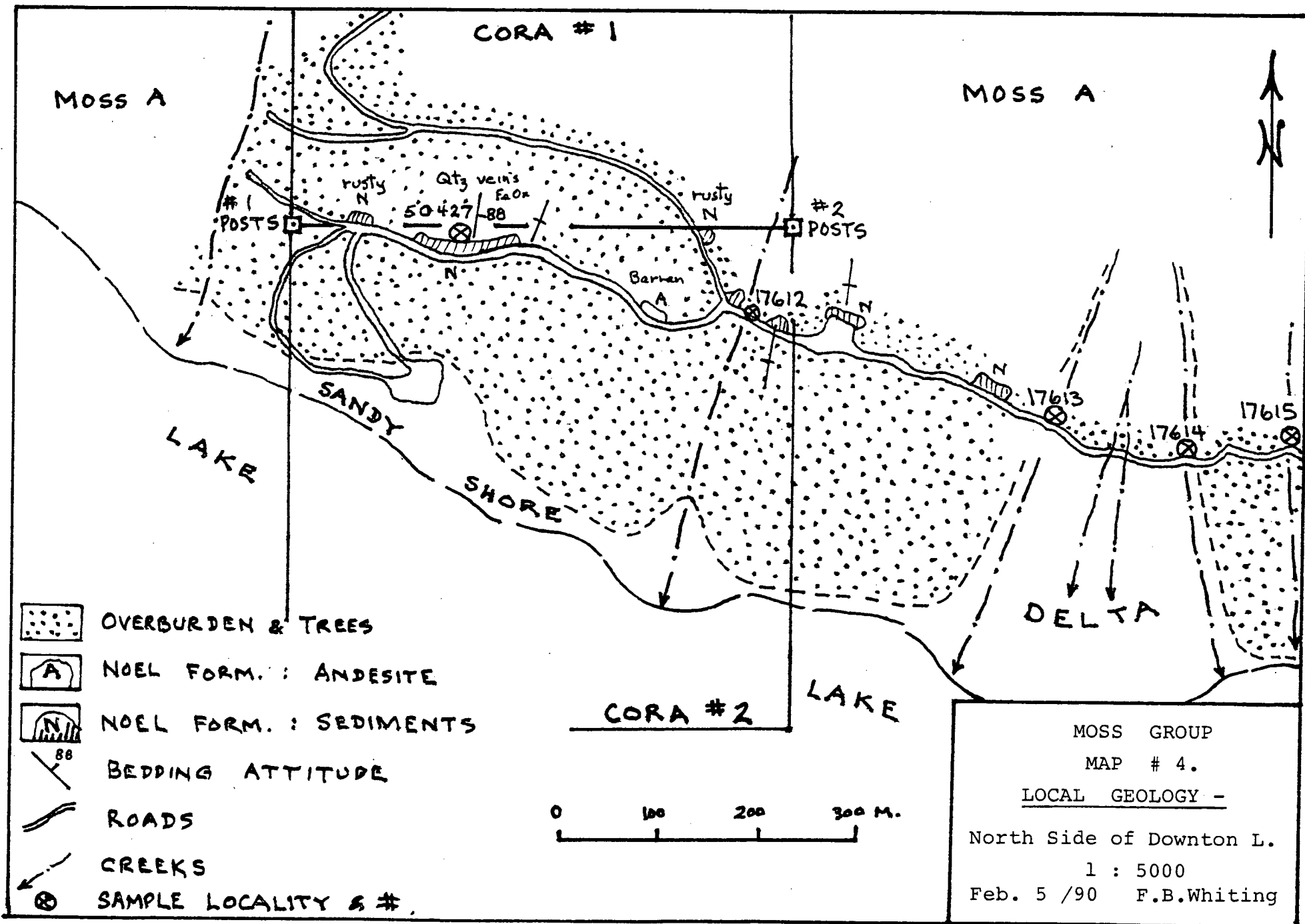
B








ULTRABASIC ROCKS: *peridotite, serpentine and listwanite (Ba)*

Ground mapping supplemented by helicopter flights confirm that Mount Penrose and Dickson Peak are formed of barren Coast Intrusions and that the contact between these bodies and the Noel Formation closer to the lake runs across the lower slopes of the mountains fairly close to the north border of the Moss Group. Iron-staining is visible all along the lakeshore outcrops on the north side of the lake both within the Moss A claim and for at least 2 km to the southeast. The Noel-formation beds generally strike north to northwest and dip steeply to the SW or NE. A prominent gossan occurs in the creek gulch just northwest of the NW corner of the claim block.

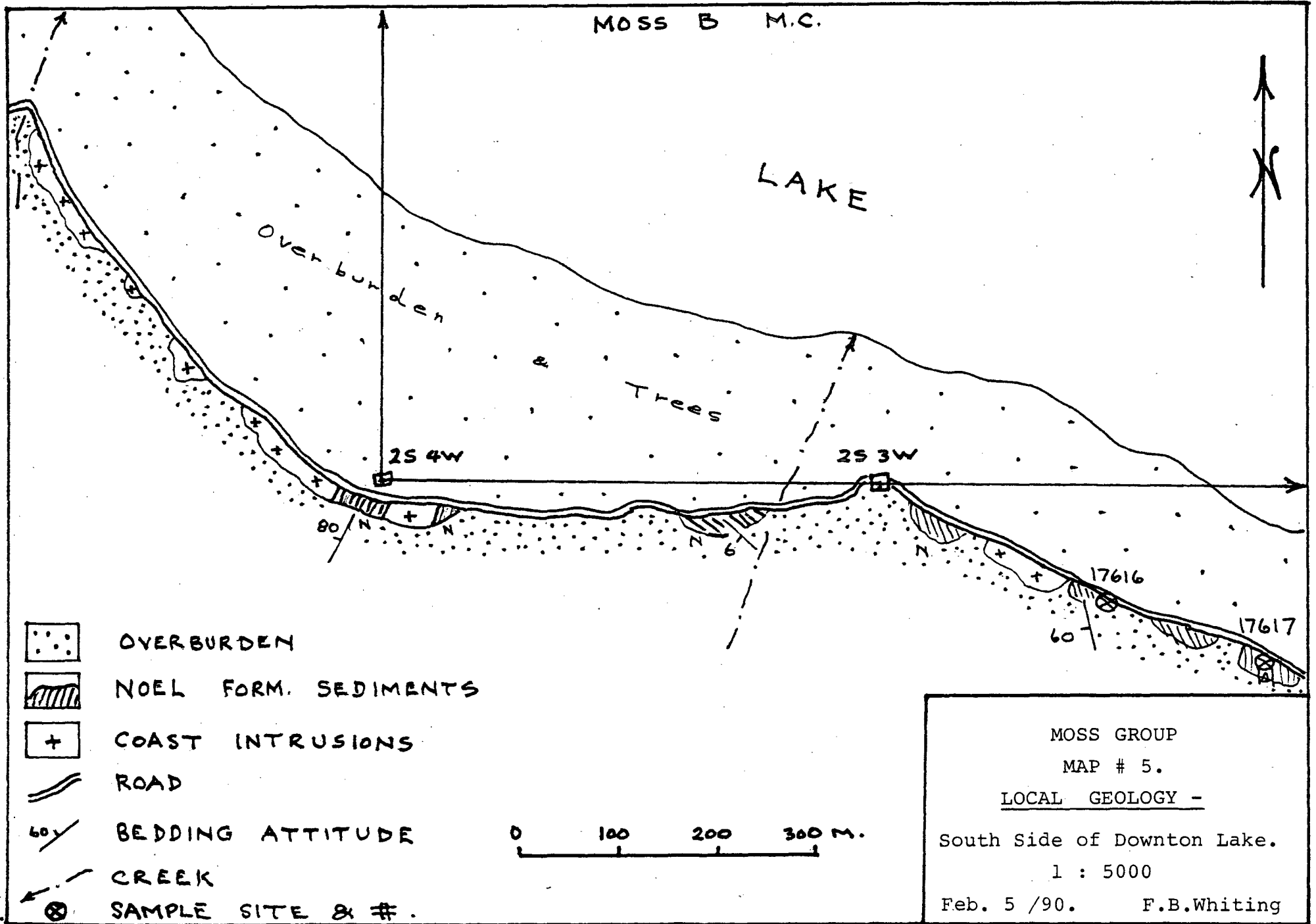
Map # 4 is the author's detailed map of the outcrops along the road in the Cora #1-#2 claims and the Moss A ground. Most outcrops are of dark grey siltstone and argillite, often with iron-staining and quartz veining parallel to the bedding. One outcrop of barren andesite was mapped. No intrusive granitic rocks were mapped. One grab sample was collected from a number of individual outcroppings spaced over a distance of 80 m; this is Sample # 50247, which assayed :
Au less than 5 ppb, Ag less than 5 ppm, 1700 ppm barium, and minimum amounts of other metals. In an attempt to confirm the Church assays of moss from creeks draining the claims, four moss samples were collected ; results were :
Sample # 17612 : less than 5 ppb
Sample # 17613 : less than 5 ppb
Sample # 17614 : 15 ppb
Sample # 17615 : less than 5 ppb.

While staking along the north border of Moss A claim abundant iron-stained quartz float was found at several sites, suggesting that there is an increase in the intensity of veining closer to the contact with the Coast Intrusions. If a gold deposit does exist here it is likely to occur close to that intrusive contact.



-  OVERBURDEN & TREES
-  NOEL FORM. : ANDESITE
-  NOEL FORM. : SEDIMENTS
-  BEDDING ATTITUDE
-  ROADS
-  CREEKS
-  SAMPLE LOCALITY & #

MOSS GROUP
 MAP # 4.
LOCAL GEOLOGY -
 North Side of Downton L.
 1 : 5000
 Feb. 5 /90 F.B. Whiting



In 1989 a new logging road was constructed along the south shore of Downton Lake. The posts 2S-3W and 2S-4W of the Moss B claim are situated along that road. Map # 5 is the author's detailed map of the outcroppings along that road.

Outcrops of Noel Formation sediments alternate with stretches of Coast Intrusions. The Coast Intrusions are uniformly barren. The Noel sediments (not shown on Church's 1988 map but seen in 1989), are generally un-mineralized. However, two rock samples were collected and assayed; results are :

Sample # 17616 : less than 0.07 grams per metric ton, less than 0.7 grams Ag per metric ton. Rusty.

Sample # 17617 : 0.38 grams / m.t. Au ; 1.7 gm/m.t.Ag. This is of a breccia mass two mtres wide and extending south up the mount-ainside.

The interpretation of all the foregoing is: there is a contact zone along the south border of the Mt. Penrose - Mt. Dickson intrusive stock with abundant pyritization and quartz veining. The geological environment is one in which replacement deposits of gold could occur. Further prospecting and sampling are recommended to determine whether there is any concentration of gold near that contact zone.

5. ITEMIZED COST STATEMENT

7.

<u>Personnel:</u>	<u>Function</u>	<u>Days Worked</u>	<u>Total Days</u>	<u>Rate / day</u>	<u>Amount</u>
F.B.Whiting	Geologist	June 21-23/89	3	\$ 250	\$ 750
	on field	July 16-18/89	3	\$ 250	\$ 750
	work	Aug. 27-30/89	4	\$ 250	\$1000
F.B.Whiting	Author	Feb.3-5/90	3	\$ 200	\$ 600

Food & Accomodation

10 days : meals & motel @ \$ 45/day, dates as above.....\$ 450

Vehicle & Gasoline : for field work & Mob/demob \$ 463
Dates as above. Vehicle + gas @ \$46.30/d.

Assaying: Bondar Clegg, 7 analyses:\$33 +34+20.....\$ 87

Report Xeroxing, binders \$ 16

Total..... \$ 4116

6. RECOMMENDATIONS

Further mapping and sampling should be done in the northern portion of the Moss A-Cora #1-Moss C-D-E-F claims including soil and stream-sediment sampling to determine whether there are any indications of the existence of a gold deposit here.

Respectfully submitted,



F.B. Whiting, Ph.D., P.Eng.

B. AUTHOR'S QUALIFICATIONS

8.

I, Francis B. Whiting, hereby affirm that :

1. I am a consulting geological engineer domiciled at 5284 - 245 A street, Aldergrove, B.C. with office at the same location.
2. I received the degree of B.App.Sci. from U.B.C. in 1946, the degree of M.Sc. from McGill University in 1948, and the degree of Ph.D. from the Mass. Institute of Technology in 1951.
3. I have practised my profession since 1946, as field assistant with the Geol. Survey of Canada, as geologist with Placer Development (1946), New Jersey Zinc Explorations (1948-49), St. Joseph Lead Co. as underground geologist 1951-54, with Cia. Minera Aguilar S.A. as Chief Geologist 1954-60; as Exploration Manager for Cia.Minera Aguilar 1961-68; as General Manager for Arrow Inter-America Corp. 1969-73; as Regional Manager for Brascan Resources Limited 1973-76; as independent consulting engineer from 1977- present.
4. I am a member in good standing of the Association of Prof. Engineers of B.C. and of the Assoc. of Prof. Eng. for the Yukon.
5. I personally did the geological mapping and sampling on the Moss Group in 1989.

Respectfully submitted,



F.B. Whiting, Ph.D., P.Eng.

APPENDIX

Assay Certificates

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667



Geochemical Lab Report

REPORT: V89-00888.0

PROJECT: MOSS

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Ba PPM	Br PPM	Cd PPM	Ce PPM	Co PPM	Cr PPM	Cs PPM	Eu PPM	Fe PCT
R2 50427		<5	<5	11	1700	<1	<10	28	<10	140	2	<2	3.9

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667



Certificate of Analysis

REPORT: V89-06122.4

DATE PRINTED: 14-SEP-89

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GNT	Ag GNT
------------------	------------------	-----------	-----------

R2 17616		<0.07	<0.7
R2 17617		0.38	1.7

gram *0.05 g/t.*

= 0.11 g/t.