

LOG NO: APR 27 1992 RD.

ACTION:

FILE NO:

CALEDONIA CLAIM

Prospecting, Geology
Greenwood Mining Division
N.T.S. 82-E-2/E

March 1992 L. Haynes

<u>Claim</u>	<u>Record No.</u>	<u>Anniversary Date</u>
Caledonia	5675	March 15, 1992

Location: 49° 04.3', 118° 31.2'
Owner: Wilbur G. Hallauer
Operator: Wilbur G. Hallauer
Work Performed: Sept. 15, 1991 to Mar. 1, 1992.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

22,263

CALEDONIA CLAIM

Prospecting, Geology
Greenwood Mining Division
N.T.S. 82-E-2/E

SUMMARY

The Caledonia claim covers a copper prospect located near the summit of Hardy Mtn., six kilometres NW of Grand Forks, B.C.

The Hardy claim is in an area of poor outcrop and is underlain by Triassic Brooklyn Formation greenstone . Exploration pits have exposed sulphide mineralization in separate fracture and skarn zones.

A sample of skarn material taken from an old pit returned encouraging copper values. A program of geological mapping and geochemical sampling on the Caledonia claim is recommended.

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CALEDONIA CLAIM

Prospecting, Geology
Greenwood Mining Division
N.T.S. 82-E-2/E

1. INTRODUCTION

The Eagle Claim covers a copper prospect located approximately six kilometres NW of Grand Forks, B.C. One day (September 18, 1991) was spent assessing the claim.

Results of the assessment work are discussed in the following report.

1.1 Location and Access

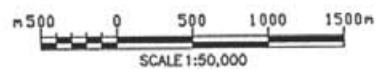
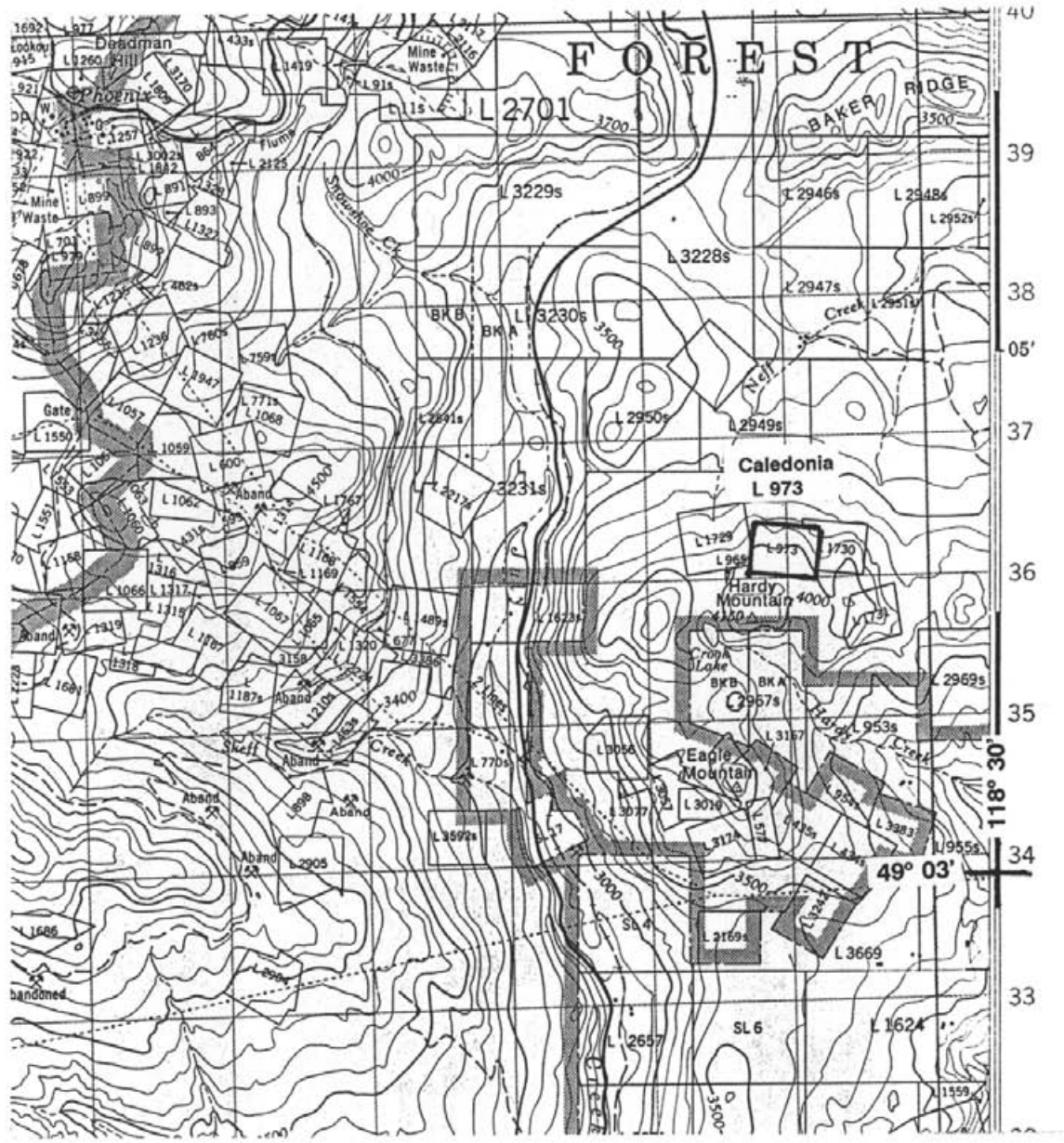
The Caledonia claim is located in the Greenwood Mining Division, B.C., approximately six kilometres NW of Grand Forks, B.C. Figure 1 shows the location of the property.

Access to the claim is by four kilometres of four-wheel road exiting from the Eagle Mtn.-Hardy Creek road. Eight kilometres of gravel and paved road connect the Eagle Mtn.-Hardy Creek road with Transprovincial Highway 3, five kilometres west of Grand Forks, B.C.

1.2 Topography

The Caledonia claim encompasses approximately 16.13 hectares (39.84) acres of gentle relief on the north side of Hardy Mountain. Elevation changes from 1160m (3800') along the north boundary of the claim to 1235m (4050') along the south claim boundary.

The claim is lightly forested with pine and second growth fir trees.



Caledonia Claim (Lot 973)

LOCATION MAP

Sept. 1991

Figure 1

1.3 Property and Claim Status

B.C. Minister of Mines Annual Reports show that the Caledonia claim was crown granted as Lot 973 on May 23, 1899. Mr. W.G. Hallauer successfully bid on the Caledonia claim as a crown granted 2 post claim (**Record No. 5675**) on March 15, 1990. Acceptance of work filed with this report work will maintain the crown granted 2 post claim until March 15, 1996. Figure 2 shows the location of the claim.

1.4 History and Previous Work

Little is known about previous work on the Caledonia claim. Work on the property is not referenced in the B.C. Minister of Mines Annual Reports. Geophysical surveys (EM) were carried out by Value Line Mining Ltd. in 1964 on claims surrounding the Hamilton claim.

1.5 Work in 1991

A one day field assessment was carried out on the Caledonia claim on September 18, 1991 by the author. Prospecting was completed over the claim and copper mineralization exposed in two pits was sampled.

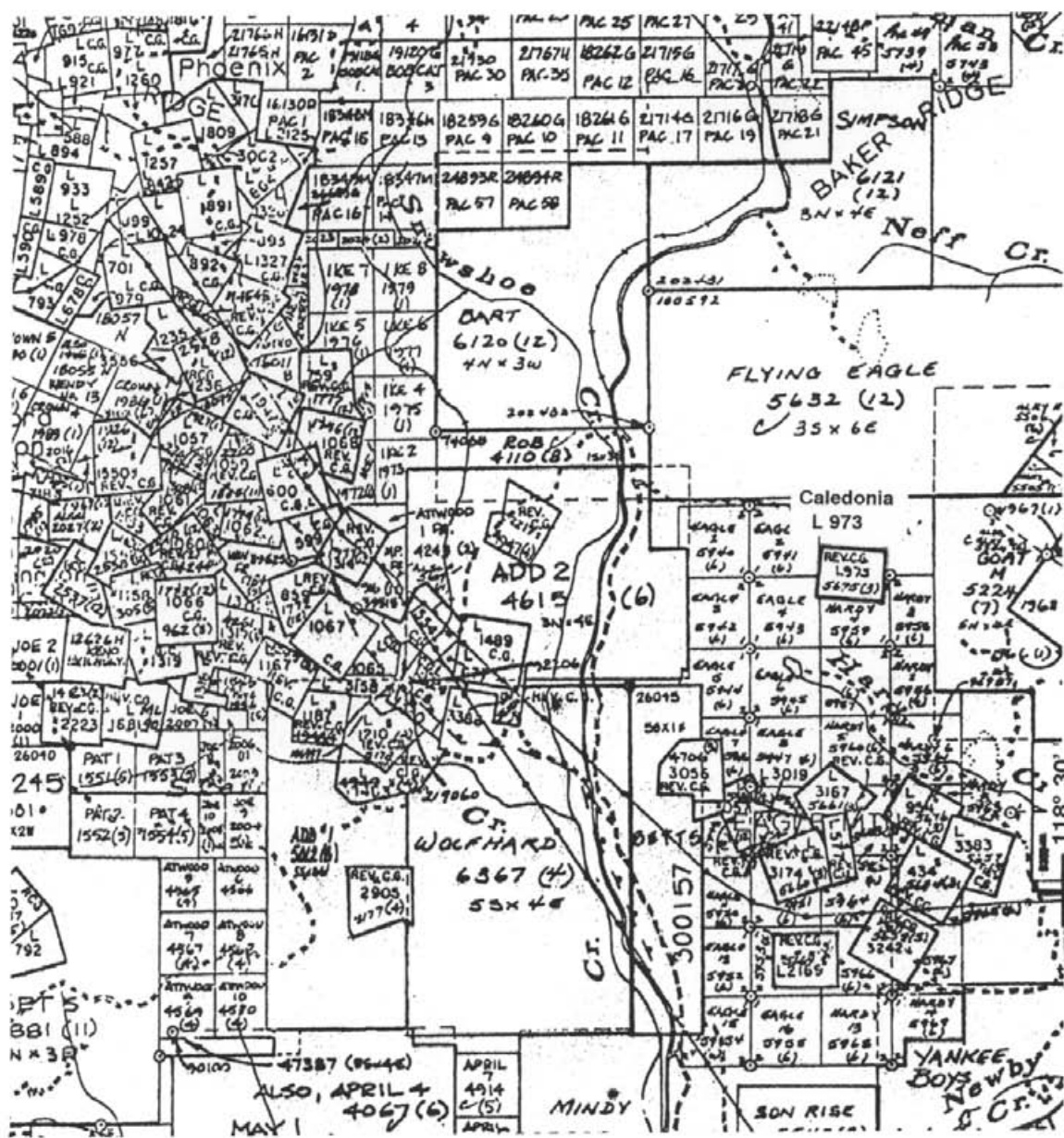
2.0 GEOLOGY AND MINERALIZATION

2.1 General Geology

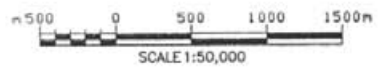
The general geology of this area is covered by J.T. Fyles (1990) in Open File 1990-25. Fyles' mapping (Figure 3) shows the claim to be underlain by Triassic Brooklyn Formation greenstone.

2.2 Procedure and Presentation of Data

Prospecting and mapping were carried out by hip-chain and compass traverse using the claim boundary, roadway and old exploration pits for control. Most of the claim's 16.13 hectares (39.84 acres) were covered by traverses. The results of mapping are shown at a scale of 1:2500 in Figure 3.



49° 03'



Caledonia Claim (Lot 973)

CLAIM MAP

Sept. 1991

Figure 2

2.3 Local Geology

Outcrop in the area is poor. The only rock exposures observed on the Caledonia claim were weathered, fine grained greenstone and limestone exposed in two exploration pits. An old exploration pit, likely dating back to the location of the claim, was excavated on skarn mineralization in light grey rusty carbonates. Several small (0.5m), copper bearing massive sulphide lenses are present in a limestone horizon within the Brooklyn Fm. greenstone. Outcrop exposure is limited to the extent of the pit (100 m²). Recent trenching exposed a narrow (1-2m wide), easterly (110°) trending fracture zone 50 metres southwest of the old pit. Weak pyrite and chalcopyrite mineralization is present along moderate to steep (65°) south dipping fractures in the fine grained greenstone.

3.0 DISCUSSION OF RESULTS

Analytical results for the sulphide mineralization from the showings on the Caledonia claim are included as Appendix A. Analytical results (**Caledonia 001,002**) show encouraging copper values (0.22, 0.74% Cu) with weak gold and silver values.

4.0 CONCLUSIONS AND RECOMMENDATIONS

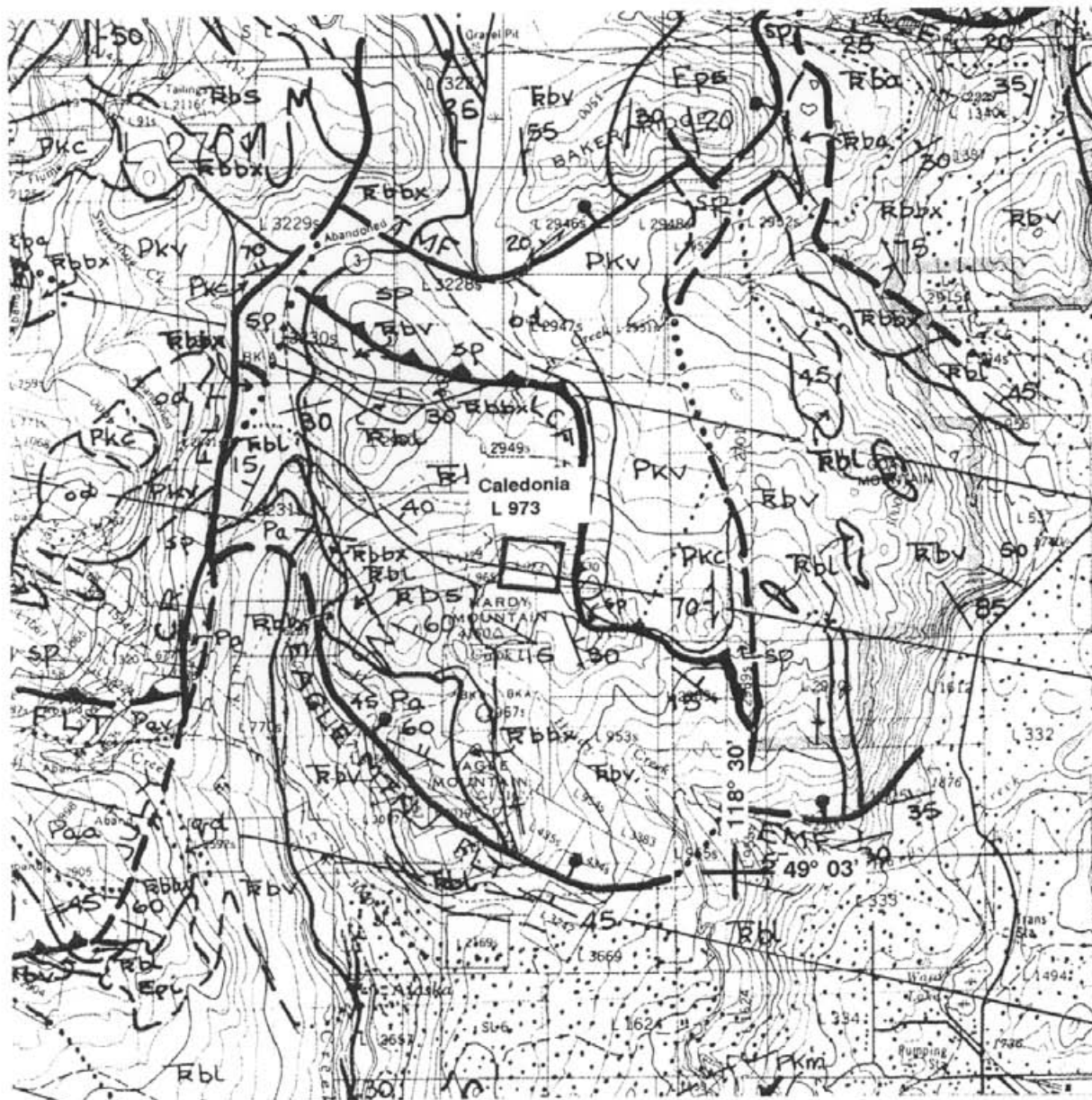
Prospecting on the Caledonia claim located two copper showings near the southeast corner of the claim. Mineralization is found in a fracture zone and a skarn zone fifty metres apart. The relationship between the mineralized zones was not established.

Detailed soil sampling is recommended in the showing area to test for possible wide spread mineralization. Detailed geological mapping of the showing area is also recommended.

Respectfully submitted,



Larry Haynes B.Sc., F.G.A.C.



After Fyles, J.T. (1990)
in Open File 1990-25



TRIASSIC

BROOKLYN FORMATION (Trb)

- v Fragmental greenstone and related microdiorite
- l Limestone, calcareous sandstone and conglomerate, minor arkn
- a Green and maroon tuffaceous sandstone, siltstone and hornfels
- a Dark grey to black siltstone
- bx Chert breccia and minor tuff, tuffaceous sandstone and marron and green limestone cobble conglomerate

CARBONIFEROUS OR PERMIAN

ATTWOOD GROUP (Pa)

- a Black siltstone and phyllite, cherty siltstone
- l Grey and white limestone, cherty limestone
- v andesite

KNOB HILL GROUP (Pk)

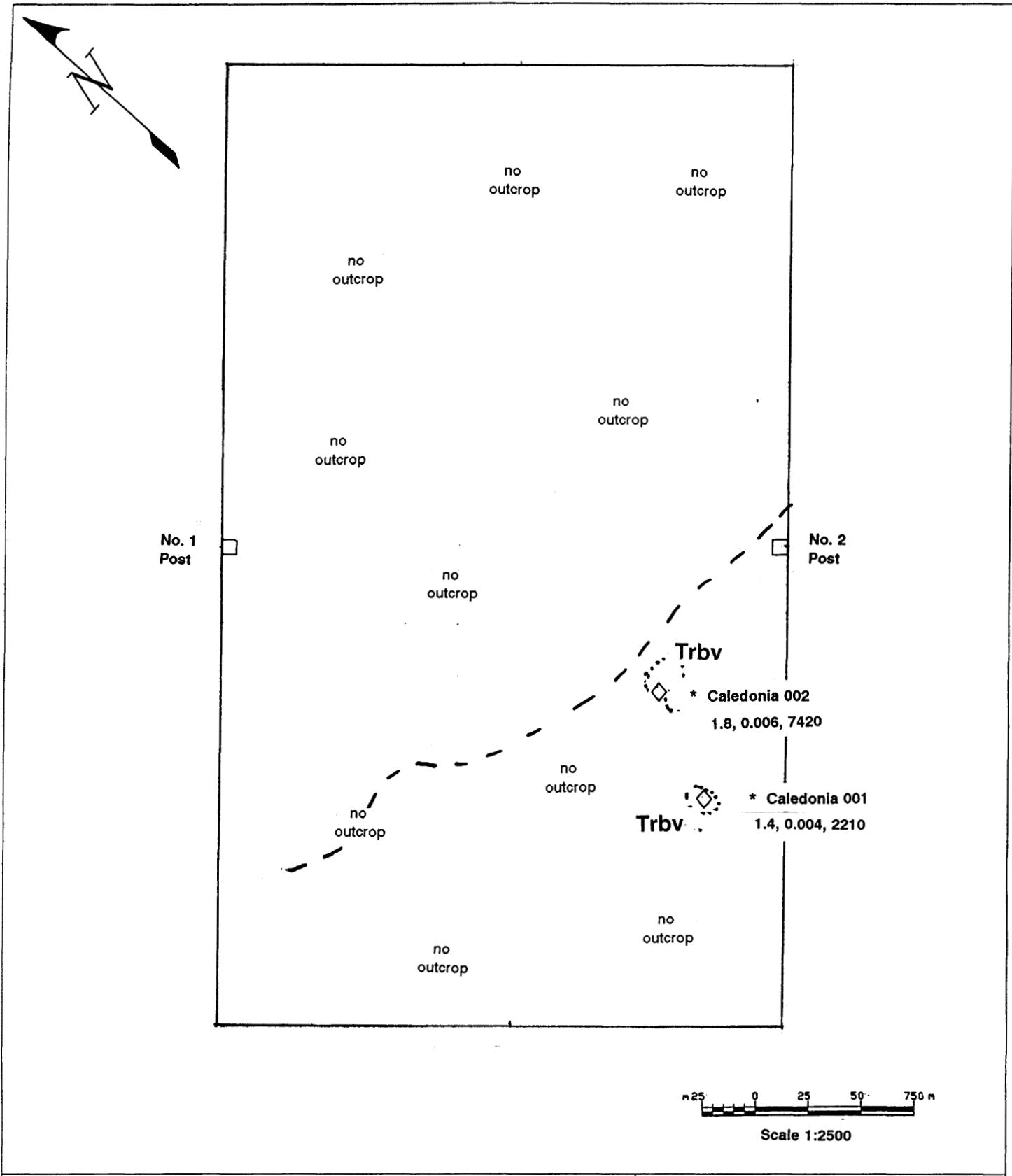
- c Chert, grey argillite, siliceous greenstone
- v greenstone, pillow lava and breccia, amphibolite
- ap Serpentinite and listwanite

Caledonia Claim (Lot 973)



GENERAL GEOLOGY

Sept. 1991

Figure 3



Trbv Greenstone, tuff (Triassic Brooklyn Fm)

-  Outcrop
-  Pit

Caledonia 001 * Sample Location & Number
 1.4, 0.004, 2210 ppm Ag, opt Au, ppm Cu

- - - Road

Caledonia Claim (Lot 973)

LOCAL GEOLOGY

Sept. 1991

Figure 4

5.0 REFERENCES

B.C. Minister of Mines Annual Report: 1899, p.848.

Elstone, E.F. (1964): Geophysical Test Surveys Over Property - Value Line Mining Ltd. (N.P.L.), B. C. Ministry of Energy, Mines and Petroleum Resources, Assessment Report No. 614.

Fyles, J.T. (1990): Geology of the Greenwood-Grand Forks Area, British Columbia; B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1990-25.

Little, H.W. (1983): Geology of the Greenwood Map Area, British Columbia; Geological Survey of Canada, Paper 79-29.

Meyers, R.E. and Taylor W.A. (1989): Lode Gold-Silver Occurrences of the Okanagan Region, South-Central British Columbia; B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1989-5.

Tempelman-Kluit D. (1989): Penticton Map Area, British Columbia; Geological Survey of Canada, Open File Map 1969.

APPENDIX I
Analytical Results - Rock Samples



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

to: HAYNES, LARRY
127 E. 18TH AVE.
VANCOUVER, BC
V5V 1F4

Page Number :1-A
Total Pages :1
Certificate Date: 22-OCT-91
Invoice No. :19123279
P.O. Number :NONE

Project : BURNS 031100
Comments: ATTN: LARRY HAYNES

CERTIFICATE OF ANALYSIS A9123279

SAMPLE	PREP		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo
	CODE		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm
CALEDONIA 001	207	294	1.4	1.39	5	20	< 0.5	< 2	1.13	1.0	150	42	2210	>15.00	30	< 1	0.05	10	0.63	400	1
CALEDONIA 002	207	294	1.8	1.00	15	< 10	< 0.5	< 2	5.95	< 0.5	132	167	7420	>15.00	20	< 1	< 0.01	10	0.13	520	< 1
HAMILTON 001	207	294	3.4	0.86	< 5	< 10	< 0.5	< 2	7.75	2.5	363	28	7560	>15.00	20	< 1	0.03	< 10	0.12	660	< 1

CERTIFICATION:

B. Coughlin



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: HAYNES, LARRY

127 E. 18TH AVE.
VANCOUVER, BC
V5V 1F4

Project: BURNS 031100
Comments: ATTN: LARRY HAYNES

Page Number :1-B
Total Pages :1
Certificate Date: 22-OCT-91
Invoice No. :19123279
P.O. Number :NONE

CERTIFICATE OF ANALYSIS

A9123279

SAMPLE	PREP CODE		Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Au
			%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	oz/T
CALEDONIA 001	207	294	0.05	20	540	18	25	4	66	0.16	< 10	100	22	50	116	0.004
CALEDONIA 002	207	294	0.03	43	280	20	35	3	71	0.23	< 10	< 10	27	< 50	192	0.006
HAMILTON 001	207	294	0.03	49	250	38	35	3	34	0.01	< 10	< 10	< 1	< 50	298	< 0.002

CERTIFICATION:

B. Coughlin

APPENDIX II
Cost Statement

APPENDIX III
Statement of Qualifications

Statement of Qualifications

Larry Haynes

Academic

April 1972	B.Sc.	University of B.C.
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Practical

December 1985- present	Geological Consultant	
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May 1983- November 1985	Exploration Manager	Property appraisal and acquisition in B.C. and NW U.S.A.
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November 1982- May 1983	Associate Geologist Alionis & Lohman	Contract Geologist
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May 1972- October 1982	Geologist Riocanex Inc.	Geologist involved in all aspects of mineral exploration in B.C., Yukon and N.W.T.
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