

ARIS SUMMARY SHEET

District Geologist, Nelson

Off Confidential: 92.03.13

ASSESSMENT REPORT 21465

MINING DIVISION: Greenwood

PROPERTY: Ruby

LOCATION: LAT 49 02 30 LONG 118 41 06  
UTM 11 5433236 376856  
NTS 082E02E

CAMP: 008 Greenwood Camp

CLAIM(S): Ruby

OPERATOR(S): Hallauer, W.

AUTHOR(S): Haynes, L.R.

REPORT YEAR: 1991, 19 Pages

COMMODITIES

SEARCHED FOR: Copper, Gold

KEYWORDS: Triassic, Brooklyn Group, Sediments, Intrusives, Skarn, Pyrite  
Chalcopyrite, Malachite

WORK

DONE: Prospecting

PROS 46.5 ha

MINFILE: 082ESE044

LOG NO:	DEC 04 1991	RD.
ACTION:	<i>[Handwritten scribbles]</i>	
FILE NO:		

LOG NO:	0628	RD.
ACTION:		
FILE NO:		

RUBY GROUP

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

June 1991

L. Haynes

<u>Claim</u>	<u>Record No.</u>	<u>Anniversary Date</u>
Ruby	5670	March 15, 1991
Ruby Frac.	5658	March 15, 1991

<b>SUB-RECORDER RECEIVED</b>	
<b>JUN 13 1991</b>	
M.R. #	\$
VANCOUVER, B.C.	

Location: 49° 02.5', 118° 41.1'  
 Owner: Wilbur G. Hallauer  
 Operator: Wilbur G. Hallauer  
 Work Performed: June 15, 1990 to March 15, 1991.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**21,465**

## RUBY GROUP

Geology  
Greenwood Mining Division  
N.T.S. 82-E-3/W

### SUMMARY

The Ruby Group covers a copper-gold prospect on the east side of the Boundary Creek valley, one kilometre east of Boundary Falls, B.C.

The Ruby Group is in an area of limited outcrop and is underlain by Triassic Brooklyn Group limestones, argillite and sharpstone conglomerate. Diorite intrusions into the limestones and argillites have produced a number of mineralized skarns. Drifting and trenching have been carried out on the Ruby claim with some production reported.

A program of sampling and mapping of the old workings on the Ruby Claim is recommended.

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## RUBY GROUP

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

### 1. INTRODUCTION

The Ruby Group covers a copper-gold prospect located one kilometre east of Boundary Falls, B.C. One day (June 26, 1990) was spent examining the claims.

Results of the programme are discussed in the following report.

#### 1.1 Location and Access

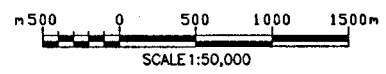
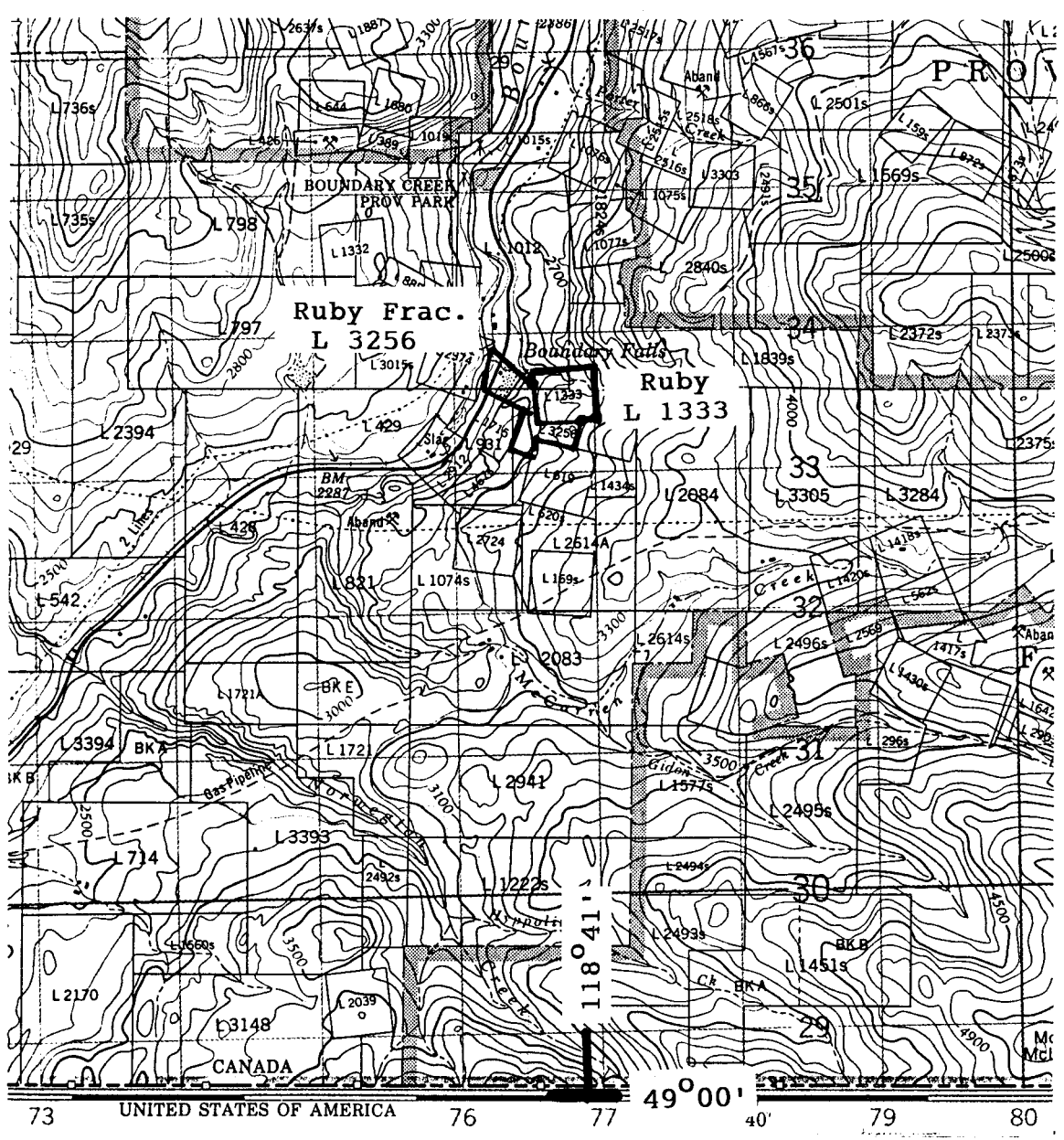
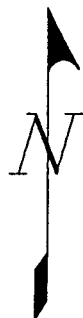
The Ruby Group is located in the Greenwood Mining Division, B.C., approximately one kilometre east of Boundary Falls, B.C.

Access to the claim is by the McCurren Creek road. The McCurren Creek road transects across the Ruby Frac. claim approximately two kilometres west of Transprovincial Highway 3 at Boundary Falls, B.C.

#### 1.2 Topography

The Ruby Group encompasses approximately 34.61 hectares of moderate relief on the east side of the Boundary Creek Valley. Elevations range from 790m (2500') near the valley floor to 885m (2900') at the highest point on the claim group.

The claim is mostly grass covered with a sparse pine forest.



Ruby Group

# LOCATION MAP

June 1990

Figure 1

### 1.3 Property and Claim Status

The Ruby Group consists of the Ruby Claim (Record No. 5670) and the Ruby Frac. Claim (Record No. 5658). The Ruby Claim was crown granted as Lot 1333 on July 23, 1900 and the Ruby Frac. Claim as Lot 3256 on September 18, 1906. Mr. W. G. Hallauer successfully bid on the Ruby and Ruby Frac. claims as crown granted 2 post claims on March 15, 1990. Acceptance of work filled with this report will maintain the crown granted 2 post claims until March 15, 1994. Figure 2 shows the location of the claims.

### 1.4 History and Previous Work

The history of the Ruby Claim is well documented in the B.C. Ministry of Mines Annual Reports and includes a reference by Galloway (1930) "of spectacular gold quartz". The property saw limited production in 1956 when 28 tonnes were mined with copper and silver values returned. The property is recorded in the National Mineral Inventory as No.82E2 CU8.

### 1.5 Work in 1990

A one day field assessment was carried out on the Ruby Group by the author on June 26, 1990. Several of the old workings were examined and sampled.

## 2.0 GEOLOGY AND MINERALIZATION

### 2.1 General Geology

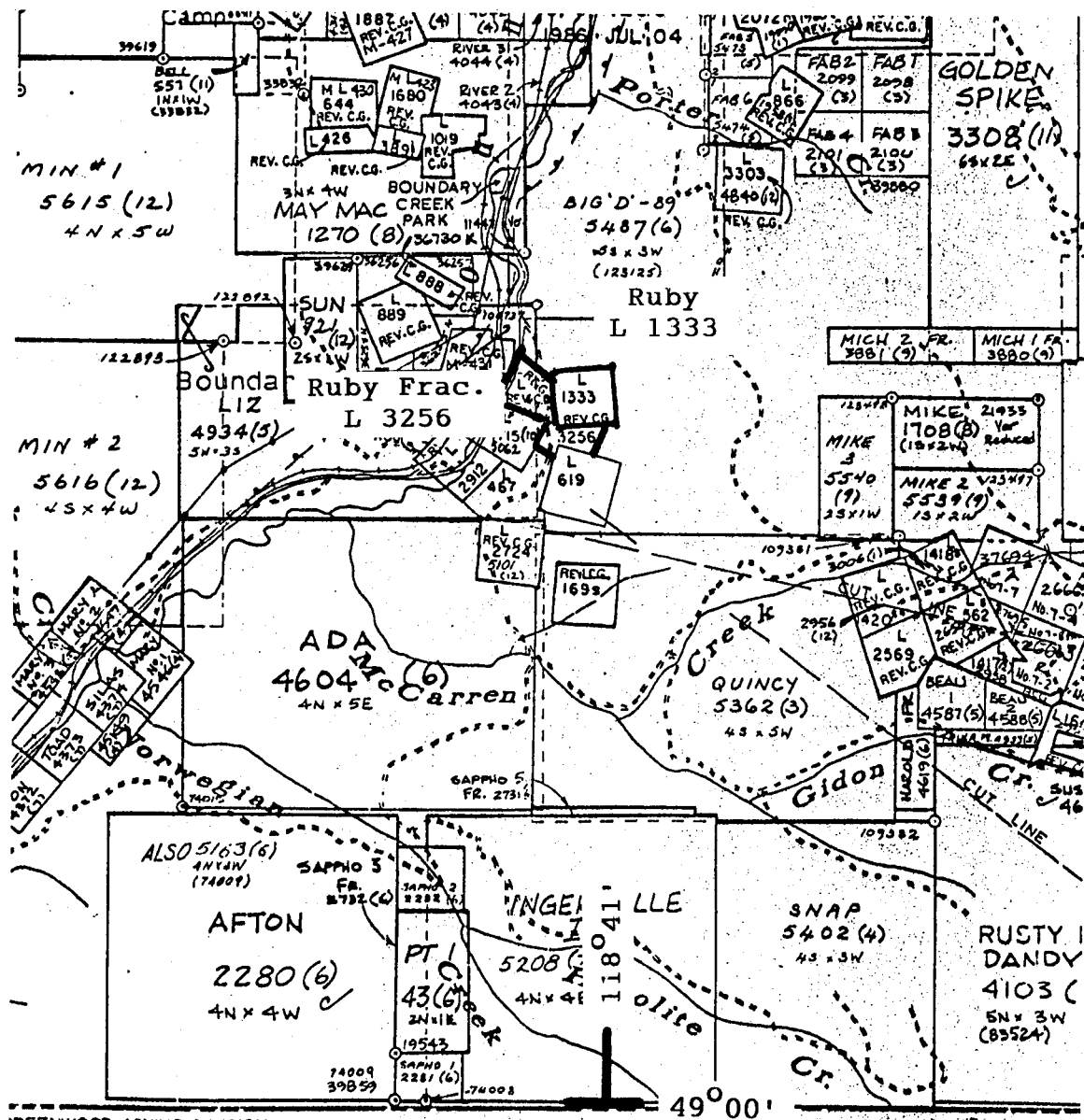
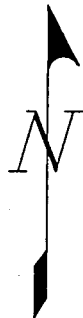
The general geology of this area is covered by B.N. Church (1986) in Paper 1986-2. Church's mapping (Figure 3) shows the Ruby Group to be underlain by Triassic Brooklyn Group limestones, argillite and sharpstone conglomerate that have been intruded by a Tertiary diorite.

### 2.2 Procedure and Presentation of Data

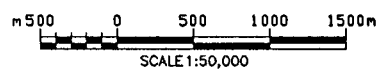
Prospecting and mapping was carried out by hip-chain and compass traverse using local topographic features (unnamed creek, roadway), claim boundary and old workings for control. Most of the claim's 114.9 hectares (46.49 acres) were covered by traverse. The results of mapping are shown at a scale of 1:2500 in Figure 4.

1 acre  $\approx$  0.4 ha

X  
T.K.



GREENWOOD MINING DIVISION



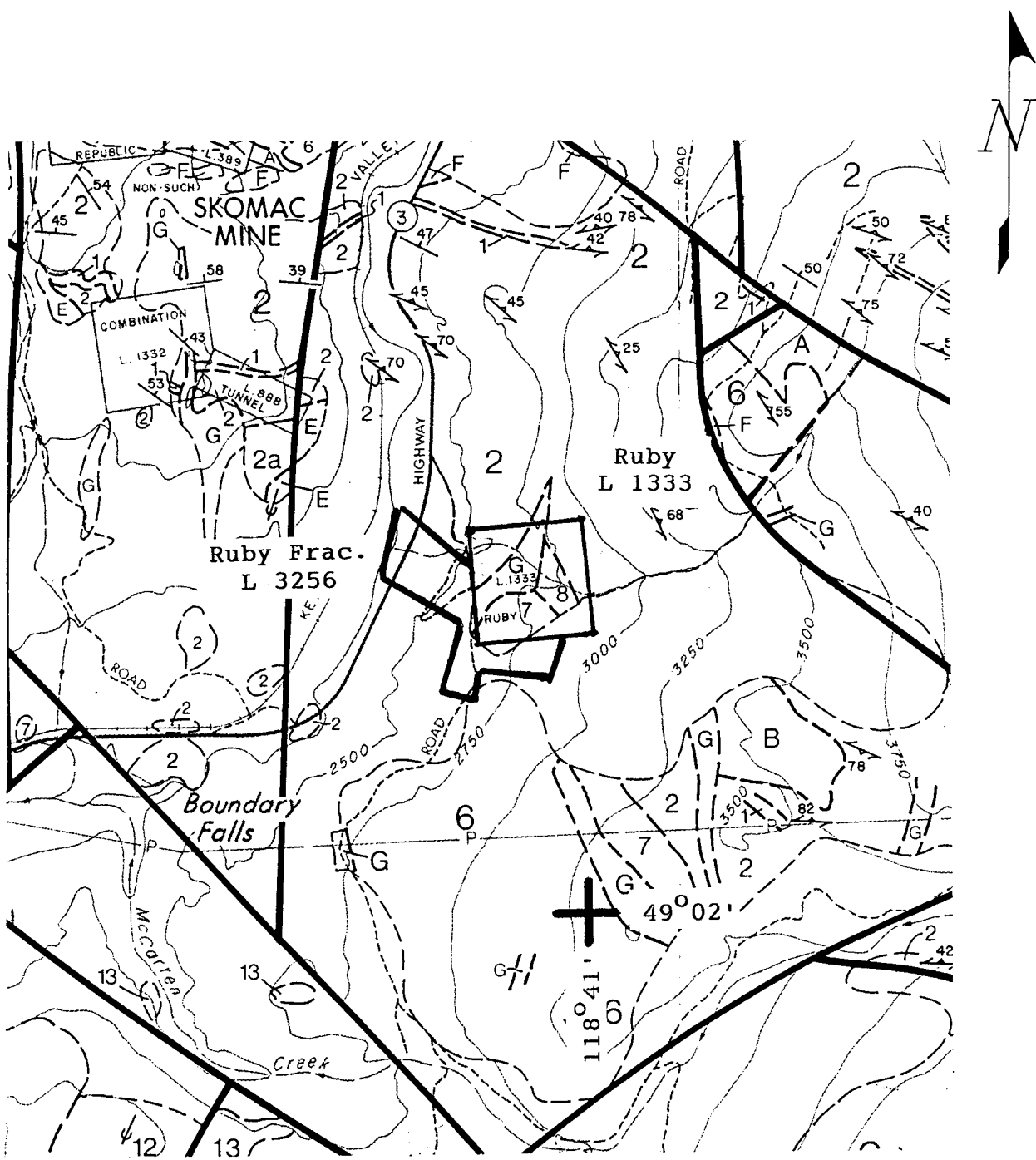
Ruby Group

# CLAIM MAP

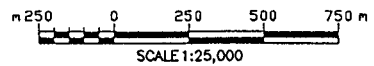
June 1990

Figure 2





After Church, B.N. (1986)  
in Paper 1986-2



<p><b>• BEDDED ROCKS</b></p> <p><b>TERTIARY</b></p> <p>13 PARK RILL VOLCS. MARRON F.</p> <p>12 NIMPIT L. VOLCS.</p> <p>11 YELLOW L. VOLCS.</p> <p>10 KETTLE RIVER S.S.</p> <p><b>TRIASSIC</b></p> <p>9 EHOLT VOLCS.</p> <p>8 Lmet., Argil. O Skarn</p> <p>7 Shpet. Cg. + Sn.</p>		<p><b>PERMO-CARB.</b></p> <p>8 Gnet.</p> <p>5/4 Shl., Grywk./Lmsl.</p> <p>3 Shpet. Cg. + S.S.</p> <p><b>BASEMENT COMPLEX</b></p> <p>2/1 Metachert. Schist, Gn./Marble</p>		<p><b>• IGNEOUS INTRUSIONS</b></p> <p><b>TERTIARY</b></p> <p>H CORYELL PLUTONICS</p> <p>G Diorite + Pul. Dykes</p> <p><b>CRETACEOUS</b></p> <p>F Ultramafics</p> <p>E/D Granodiorite/Gabbro</p> <p>C Qtz. Feldsp. Porph.</p> <p><b>TRIASSIC</b></p> <p>B Microdiorite</p> <p>A Old Diorite</p>		<p><b>Ruby Group</b></p>	
<p>— Fault</p>				<p><b>GENERAL GEOLOGY</b></p>			
			<p>June 1990</p>		<p>Figure 3</p>		

### 2.3 Local Geology

Outcrop in the claim area is poor. Material from an old adit in an unnamed creek on the Ruby Claim contains numerous massive pyritic skarn material. The skarn is hosted by poorly bedded to massive, light grey limestone gangue. More recent trenching, 100m southwest of the adit, has exposed weak copper mineralization in bedded, green to grey, hornfelsed argillites. Bedding (schistosity ?) in the argillite shows a NW/SE strike with 40° to 65° NE dips. The rock units are assumed to be Triassic Brooklyn Group limestones and intercalated argillites. Copper mineralization occurs as pyrite-chalcopyrite fracture fillings and malachite staining. Copper grades are estimated to be low.

### 3.0 DISCUSSION OF RESULTS

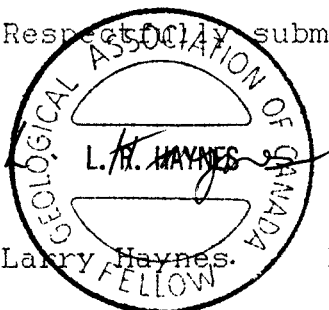
Analytical results for the massive pyrite skarn (Sample No. 91000WH) from the dump on the Ruby Claim are included as Appendix A. Assay results do not show significant gold or silver values. ICP analysis show anomalous tungsten values (423 ppm). The anomalous values are expected to be associated with the skarn mineralization.

### 4.0 CONCLUSIONS AND RECOMMENDATIONS

The Ruby Group contains a number of old workings on the claims. Most of the work dates back to the period between 1896 to 1905. The drifting appears to be along the skarns developed in argillites where there is visible copper mineralization. Galloway's reference (1930) to "spectacular gold quartz" apparently has not been explained.

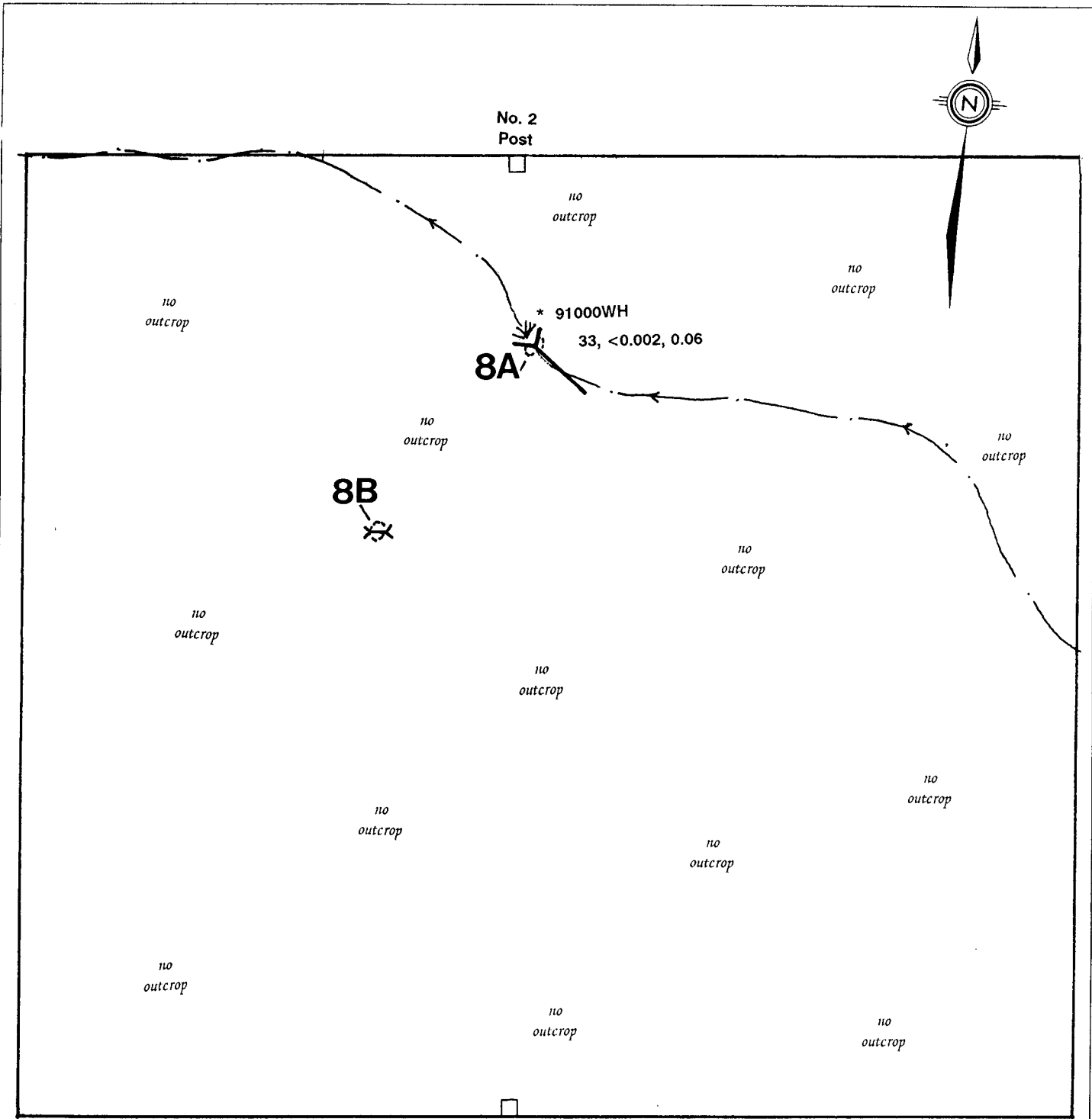
A program of geological mapping and sampling is recommended for the Ruby Group. Emphasis should be placed on establishing the relationships between the showings on the property and the potential for development of skarn mineralization. Sampling of all the workings should be completed.

Respectfully submitted,



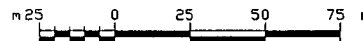
Larry Haynes.

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



Triassic

Brooklyn Group  
 8A Limestone  
 8B Argillite



Scale 1:2500

**Ruby Claim (Lot 1333)**

**LOCAL GEOLOGY**

June 1990

Figure 4

- Outcrop
  - Adit
  - Waste Dump
  - Trench
- 91000WH \* Sample Location & Number  
 33, <0.002, 0.06 ppb Au, opt Au, opt Ag  
 Creek

## 5.0 REFERENCES

- B.C. Minister of Mines Annual Report: 1896, p.582; 1898, p.1125; 1900, p.992; 1901, p.1051,1057; 1902 p.180; 1903, p.183; 1905, p.183; 1941, p.72; 1956 p.49.
- Church, B.N. (1985): Geology of the Skomac Mine and Boundary Falls Area, in Geology in British Columbia 1971-81; British Columbia Ministry of Mines and Petroleum Resources, pp. 1-12.
- Church, B.N. (1986): Geology and Mineralization in the Mount Attwood-Phoenix Area, Greenwood B.C.; B.C. Ministry of Energy, Mines and Petroleum Resources, Paper 1986-2.
- 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.
- Galloway, J.D. (1932): Lode-Gold Deposits of British Columbia; B.C. Department of Mines, Bulletin No. 1.
- 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



REPORT: V91-00235.4

DATE PRINTED: 4-MAR-91

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
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R2 91000WH	<0.002	0.06	
R2 91001WH	<0.002	0.12	
R2 91002WH	<0.002	<0.02	
R2 91003WH	<0.002	<0.02	

*RUBY*



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DATE PRINTED: 18-MAR-91

REPORT: V91-00235.11

PROJECT: NONE GIVEN

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Tr PPB	Ag PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	As PPM	Sb PPM	Fe PCT	Se PPM
R2 91000WH	<b>RUBY</b>	33	<100	7	<200	7	530	730	<10	52	0.5	>10.0	130
R2 91001WH		60	<100	10	270	7	200	100	<10	18	11.0	5.4	<10
R2 91002WH		44	<100	<5	<200	<2	<20	<10	<10	29	0.4	1.2	<10
R2 91003WH		13	<100	<5	<200	12	<20	95	<10	12	4.7	4.2	<10



A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 18-MAR-91

REPORT: V91-00235.0

PROJECT: NONE GIVEN

PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Fe PPM	Ba PPM	Cr PPM	Sn PPM	W PPM	Cs PPM	La PPM	Ce PPM	Sm PPM	Fu PPM	Tb PPM	Yb PPM
R2 91000WH	<u>Ruby</u>	<20	<100	76	<200	423	<1	<5	<21	0.3	<2	<1	<5
R2 91001WH		<20	340	380	<200	390	<1	18	29	4.7	<2	<1	<5
R2 91002WH		<20	<100	340	<200	<2	<1	<5	<10	<0.2	<2	<1	<5
R2 91003WH		<20	<100	240	<200	<2	<1	<5	<10	<0.2	<2	<1	<5





A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 18-MAR-91

REPORT: V91-00235.0

PROJECT: NONE GIVEN

PAGE 1C

SAMPLE NUMBER	FLUORINE UNITS	Lu PPM	Sc PPM	Hf PPM	Ta PPM	Th PPM	U PPM	Na PCT	Br PPM	Rb PPM	Zr PPM
R2 91000WH	<u>RUBY</u>	0.5	0.9	3	<1	<0.5	<0.5	<0.05	<1	<10	<500
R2 91001WH		<0.5	17.0	4	<1	2.8	1.2	1.40	1	16	<500
R2 91002WH		<0.5	0.7	<2	<1	<0.5	<0.5	0.06	<1	<10	<500
R2 91003WH		<0.5	2.3	<2	<1	<0.5	<0.5	<0.05	<1	<10	<500

APPENDIX II  
Cost Statement

COST STATEMENT

RUBY GROUP  
Geology  
26 June 1990

Salaries and Wages

L. Haynes	1.0 Field Days @ \$200.00/day	\$ 200.00
	1.0 Office Days @ \$150.00/day	\$ 150.00
C. Polak	1.0 Field Days @ \$100.00/day	\$ 100.00

Food and Accommodation

2 people; June 26, 1990; 2 man days @ \$20.00/day	\$ 40.00
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Transportation

Truck Rental	1.0 days @ \$40.00/day (June 26, 1990)	\$ 40.00
Fuel		\$ 25.00

Analysis

1 ICP Analysis (Rock)	\$ 16.05
1 Ag-Au Analysis (Rock)	\$ 13.64
Sample Preparation	\$ 4.28

General Costs

Report Preparation - Typing, Drafting, Copies	\$ 60.00
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Total	\$ 648.97
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APPENDIX III  
Statement of Qualifications

## Statement of Qualifications

Larry Haynes

### Academic

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

### Practical

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