

LOG NO: 0111	RD.
ACTION:	
FILE NO:	

Prospecting Assessment Report

on the

GOLD RIDGE GROUP  
Kamloops Mining Division

Nahatlatch Area  
Boston Bar, B.C.

Lat. 50 05N; Long. 121 38W  
(Field work July 14 - Sept. 28, 1987)

Prepared by:

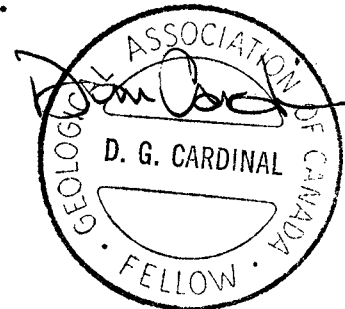
FILMED

D.G. Cardinal, P.Geol.

Geologist

Hope, B.C.

December 11, 1987.



16,857

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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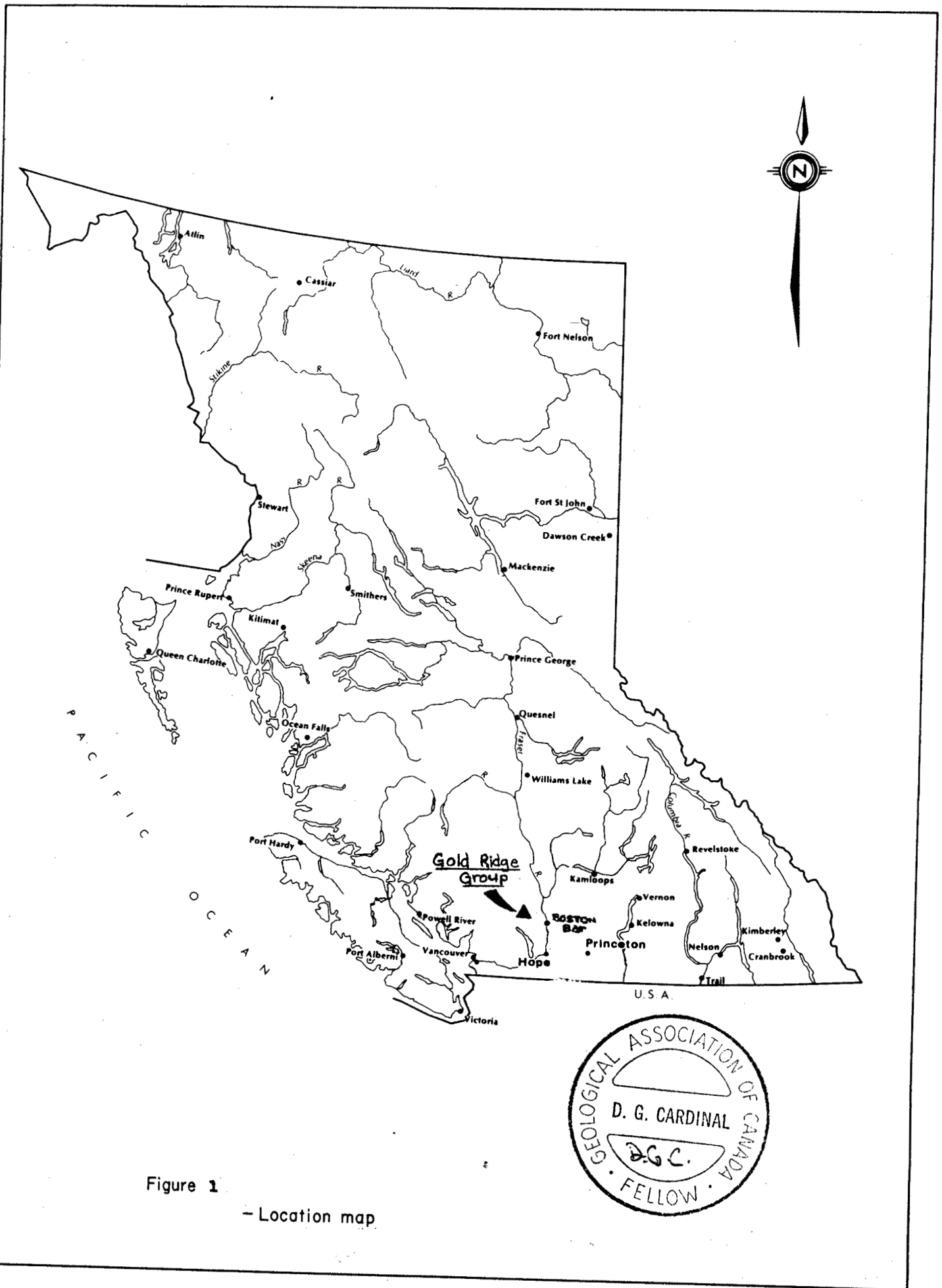


Figure 1  
 - Location map

B. CLAIMS INFORMATION

The Gold Ridge Group consists of 120 contiguous claim units covering 2,800 (7,000 acres). The claims are registered in the Kamloops Mining Division and records can be examined at the Kamloops Mining Recording office or at the Sub-recorder's Office in Vancouver.

Pertinent claim data is outlined below:

<u>Claim Name</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Expiry Date</u>
Gold Ridge 1	20	6850	November 17, 1988
" 2	20	6851	" " "
" 3	20	6852	" " "
" 4	20	6853	" " "
" 5	20	6854	" " "
" 6	20	6855	" " "

Miles 1 0 1 2 Miles

Metres 1000 500 0 1000 2000 3000 Metres  
Kilometres 1 0 1 2 3 Kilometres

June 1954

Kanaka 26

WHYLER

TP 13 R 27 W 6

# Gold Ridge Group CLAIMS MAP Fig. 2

Kamloops M.D.

RANDI 1  
PYRAMID  
MTN.  
3209(1)  
45 X 24

RANDI 2  
3210(1)  
45 X 2E

GOLD RIDGE 5  
6854

GOLD RIDGE 6  
6855

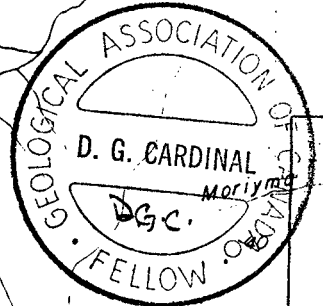
GOLD RIDGE 3  
6852

GOLD RIDGE 4  
6853

GOLD RIDGE 2  
6851

GOLD RIDGE 1  
6850

CAT  
6812(10)  
40 X 2E



HERB HUNG  
2135(1)  
10 X 25 W

Creek

LUCY  
2686(7)  
45 X 5E

KAMLOOPS MINING DIVISION  
NEW WESTMINSTER MINING DIVISION

STAKAMENT

JORDAN 1  
2354(3)  
145 X 5E

NATCH 1  
1288(9)  
38 (40 X 50)

HANNA 3  
2094(5)  
(30 X 20)

HANNA 2  
2093(5)  
(30 X 30)

NATCH 4  
1291(9)  
(20 X 2E)

TP 12 R 27 W 6

JORDAN 3  
2355(3)  
145 X 5E

NATCH 2  
1289(9)  
(40 X 20)

NATCH 3  
1290(9)  
(40 X 6E)

Hannah I.

Frances I.

Nahattatch River

BERLAD  
1976(3)

WILLY JON  
1976(1)

CABINI

A. LOCATION AND ACCESS

The claim group is situated some 25km (17mi) northwest of Boston Bar, B.C.. Boston Bar is located on the Trans Canada Highway and is about a 40 minute drive from the town of Hope which inturn, is a 2 hour drive from the city of Vancouver, B.C..

The southern portion of the claims are accessible by a recently constructed 4-wheel-drive road. The northern section also has road access but would have to be upgraded. This road was constructed in 1972 for fire guard purposes. The southern road currently most used, leads to Boston Bar by connecting to a well-maintained logging and public access road, approximately 30km (19mi) in distance. Presently the most efficient access to the northern section of the claims is by helicopter. It should be noted that watersheds on parts of the claims are progressively being logged by British Columbia Forest Products (B.C.F.P.) further opening the area for better access and mineral exploration.

C. HISTORY

Gold was first documented on the northern section of Gold Ridge claims in 1935 by H.C. Horwood (1936) of the G.S.C., then referred to as the Serpentine and Summit Claims. Gold was reported to have been found associated with massive quartz vein structures. During the prospecting and mapping traverses several old trenches and open cuts exposing large quartz vein systems were observed.

It is also reported that about as early as 1926-27 that a small diamond drill program was conducted on the Serpentine-Summit claims. The camp and drill equipment were hauled in by a horse-pack train. During the reconnaissance surveys an old horse trail was noted but no evidence of drilling was found it is believe that any signs of the drilling was destroyed over the years by natural elements and covered by vegetation.

In the summer to 1984, Hudson Bay Exploration & Development Co. Ltd. conducted reconnaissance work on the Gold Ridge Claims. The work consisted of widely spaced geophysical, geochemical and general geological surveys. The surveys outlined some major structures and strong arsenic anomalies along with some isolated, above background gold values. Hudson Bay also did extensive road building allowing for good access into the southern portion of the property. The claims subsequently lapsed and were staked in October 1986 by prospector R.A. Lacombe.

D. REGIONAL GEOLOGY

Regionally, a major northeast-southeast trending ultramafic belt can be traced for some 30km (19mi) along strike. The belt can first be observed just west of the confluence of the Nahatlatch and the Fraser Rivers, and terminating north and northeast of Skihist Mountain near the Stein River watershed. The ultramafic belt which is of uncertain age, is serpentized and fault bounded by low grade metasedimentary and metavolcanic rocks composed predominantly of phyllites, schists, shales, and greenstone schists. The metamorphic package has been tentatively dated as Triassic and earlier.

The belt has subsequently been intruded by the Coast Range granites of Cretaceous age and locally with quartz monzonitic plugs which may be of a younger age. Tectonically, the serpentized ultramafic rocks are faulted and sheared along strike and in fault-contact with the sediment-volcanic package. Mineralization characteristically occurs along the fault-contact in shear zones and adjacent to the serpentine. The quartz monzonitic plugs noted above may also have played an important role in the localization of precious metals along portion of the belt.

E. PROSPECTING AND SAMPLING SURVEYS

The objective of the preliminary prospecting and sampling surveys was to attempt to locate areas of interest on the property and where follow-up surveys can be carried out. Because majority of old trenches

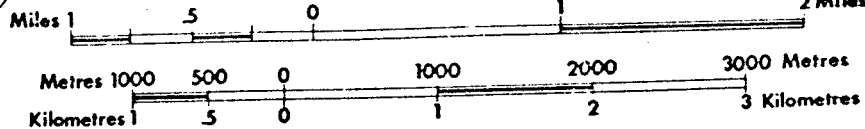


are located on the Gold Ridge #3 claim most of the prospecting, mapping, and sampling was done in this area. Heavy Mineral (H.M.) silt sampling was carried out on the Gold Ridge #4 claim, on a series of small tributaries which make up a creek locally known as Four-Barrel Creek. A total of 7 H.M. samples each weighing between 2 to 5 kg were obtained along this small watershed and the creek was followed out to it's confluence with Fraser River. The writer wishes to note that the creek is very treacherous along its' lower portions because of the precipice nature and becomes almost an unsurmountable task to complete the last leg of this creek.

All surveys were controlled by using a combination of topographic maps, hipchain, altimeter, compass, and geographic features. H.M. sample points were fixed by elevation (altimeter & topomap) and approximate position along the creek. Reconnaissance mapping and sampling were tied to a grid which was established to tie-in any old trenches , rock outcrops, and fault zones. Prospecting was also conducted over the grid.

#### F. RECONNAISSANCE PROPERTY GEOLOGY

Most of the prospecting and mapping was centered around and along strike of old trenches found on the property. A baseline was surveyed for 1600m striking N325W with crosslines every 200m apart and used for control during the reconnaissance work.



# MAP 921/4E

## Gold Ridge Group HEAVY METAL SAMPLING

Sample station  
 Sample No. ●  
 Au geochem (ppb)

27 W 6

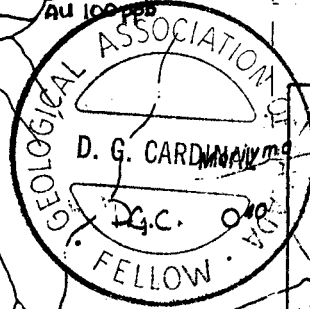
Fig. 3

For Details  
See Fig. 4

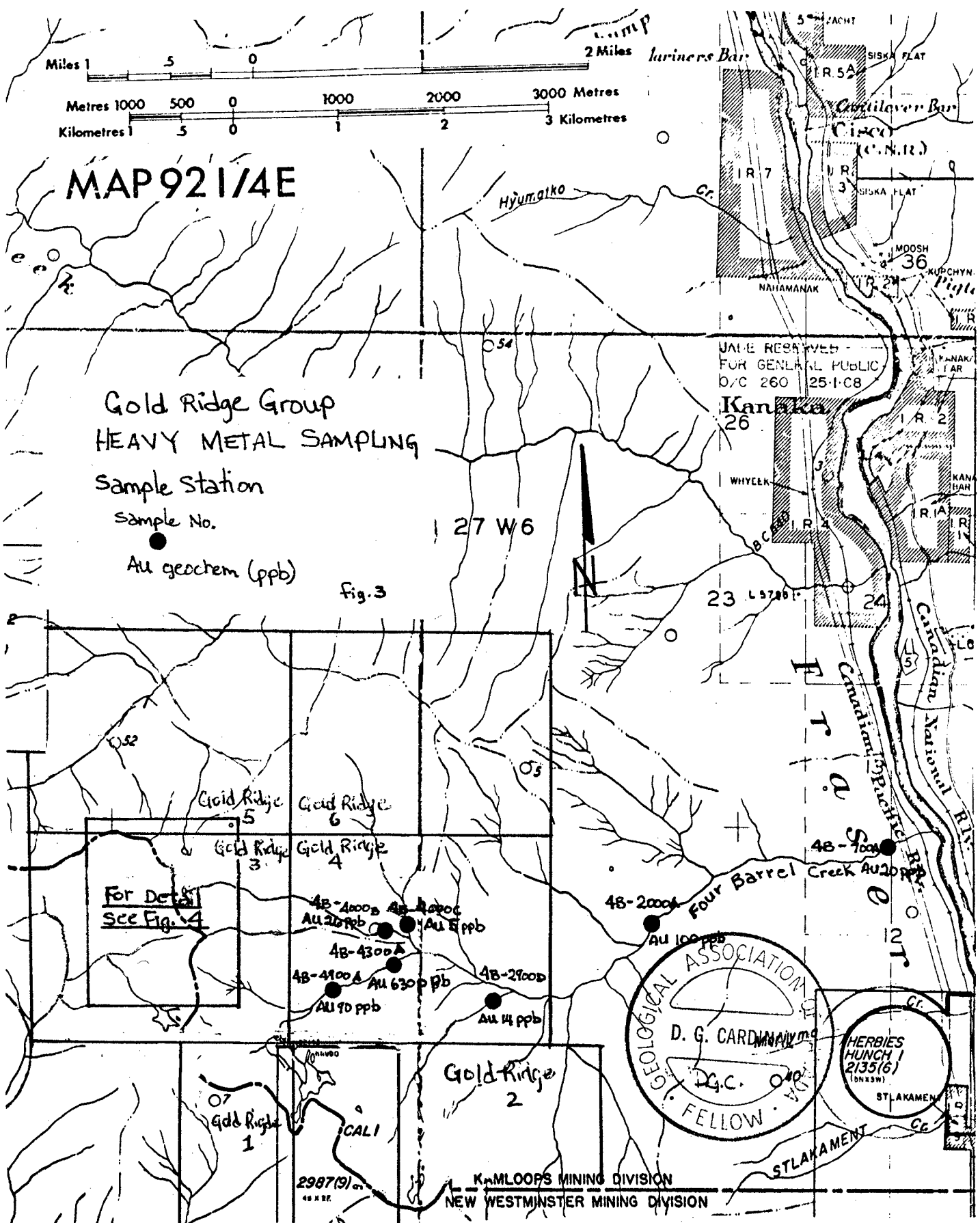
Gold Ridge 5  
 Gold Ridge 6  
 Gold Ridge 3  
 Gold Ridge 4  
 48-2000 Au 20 ppb  
 48-2000 Au 100 ppb  
 48-4300 Au 6 ppb  
 48-4100 Au 630 ppb  
 48-2100 Au 14 ppb  
 Au 70 ppb

Gold Ridge 1

Gold Ridge 2

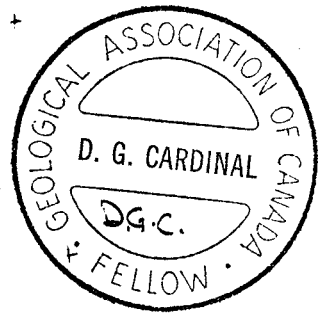


KAMLOOPS MINING DIVISION  
 NEW WESTMINSTER MINING DIVISION



Generally, the property is underlain by steeply dipping, northwesterly trending volcanic greenschist intercalated with lesser phyllites and argillites. This lithological package is in fault contact near the western claim boundary by a large northwesterly striking belt of serpentized ultramafic. The intensely foliated greenschist and fine clastic sediments are intruded along the central portion of the property by a light colored, biotite-quartz monzonite intrusive plug. At and adjacent to the volcanic/sedimentary-intrusive contact boundary, and intruding the predominant greenschist is a northerly striking, coarse to medium grain ultramafic dyke. Parallelling the dyke and quartz monzonite contact are a series of strong northwesterly striking shear zones in which massive, dyke-like quartz veins have been introduced herein referred to as the Apex Zone.

The Apex Zone is characteristically marked by the massive veins noted above associated with strong shear zones. At least 3 mineralized areas were outlined along the zone during the mapping and prospecting. These areas or zones commonly host alteration features which include iron carbonate-siderite/ankerite/mariposite mineralization; silicification with abundant quartz veining; sericite and actinolite; and abundant fine disseminated sulphides consisting of arsenopyrite, pyrrhotite, pyrite, and lesser chalcopyrite and minor galena. The sulphides occur in the wall rock immediately adjacent to the quartz and replace part of the host rock which is predominately greenschist. Three of five grab rock samples obtained from these altered zones had above background in gold values assaying, 160ppb, 380ppb, and 2,300ppb. Arsenic was also high ranging upto 13,691ppm. It should also be noted that 3 of the 7 H.M. samples collected from the creek were anomalous in gold ranging between 90ppb and 630ppb.



APEX ZONE

AU380 ppb

Lake

AU160 ppb

Base Camp

AU 2300 ppb  
(.06 oz/ton)

LEGEND:

- 1 Green schist (Volcanic?), Phyllite, Argillite
- Ultramafic, Serpentine
- Quartz Monzonite
- ▬ Pyroxenite - Ultramafic Dyke
- ▬ Massive - White Quartz Vein
- ▬ Inferred
- ▬ Mineralized Breccia - Pyrite, arsenopyrite, Pyrrhotite, Chalcopyrite, minor galena, Silicification, Iron Carbonate.
- ▬ (1987) Trench
- ▬ (1920's) Trench
- ▬ Fault, Shear Zone

Gold Ridge Claims  
Kamloops Mining Division  
N.T.S. 92I/4

RECONNAISSANCE GEOLOGY  
(Apex Zone)

Scale 1:10,000

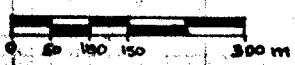


Fig. 4

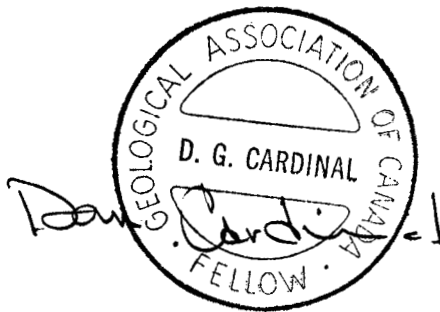
G. CONCLUSION

The reconnaissance surveys have outlined anomalous gold along altered and sheared zones which also host quartz veins and disseminated sulphides. Heavy Mineral sampling along Four Barrel Creek also appears to have outlined anomalous gold. It is evident that follow-up will be required and additional work is currently planned for the 1988 field season.

H. COST BREAKDOWN

PERSONNEL:	COST
Geologist, 18 days @ \$300/d	\$ 5,400.00
Prospector, 20.5 days @ \$150/d	3,075.00
TRANSPORTATION:	
Helicopter, 2 hours @ \$450/hr.	900.00
Truck, 4x4-Wheel, 8 days gas & oil	535.44
CAMP:	
Food, fuel, chain saw, survey materials	535.25
ANALYSES:	
Assays, 5 rock & 7 Heavy Metal	677.00
OFFICE:	
Report & Copies	<u>900.00</u>
Total	<u>\$ 12,021.69</u>

Respectfully submitted,



Mr. D.G. Cardinal, P.Geol.

## APPENDIX I

### Professional Certificate:

I, Daniel G. Cardinal of the Municipality of Hope, B.C., do hereby certify that:

1. I'am a graduate of the University of Alberta (1975) and hold a B.Sc. degree in Geology.
2. I'am registered as a Fellow in the Geological Association of Canada, (F.G.A.C.); a member in good standing with the Association of Professional Engineers, Geologists and Geophysicists of Alberta, (P.Geol.); and a member in the The Yukon Professional Geoscientists Society.
3. I have been practising my profession for the past eleven years.
4. The findings in this report are from a personal property examination conducted by me on the Gold Ridge Group between July 14 to September 28, 1987.

5. I'am a professional geologist residing in Hope, B.C., mailing address, P.O. Box 594, Hope, B.C. VOX 1L0.



Mr. D.G. Cardinal, P.Geol.



## II References

Boyle, R.W., (1979). The Geochemistry of Gold and Its Deposits, G.S.C. Bulletin 280

Duffel, S., and McTaggart, K.C., (1952) Ashcroft Map Area, G.S.C. Memoir 262.

Monger, J.W.H., and McMillan, WJ., (1982) Bedrock Geology of the Ashcroft (92I) map area, G.S.C. O.F. 980

Cardinal, D.G., (1987), The Gold Ridge Claim Group, A Geological and Precious Metal Overview (Private Report).

Harwood, H.C., (1936) Preliminary Report on the Nahatlatch Region, G.S.C. Paper 36-7.

III ANALYTICAL REPORT

**MIN-EN LABORATORIES LTD.**

*Specialists in Mineral Environments*

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

**Analytical Report**

Company: RANDALL LACOMBE  
Project:  
Attention: RANDALL LACOMBE

File: 7-951  
Date: AUGUST 18/87  
Type: HEAVY MINERAL

Date Samples Received : JULY 30/87  
Samples Submitted by : RANDALL LACOMBE

Report on ..... 7 HEAVY MINERALS..... Geochem Samples  
..... Assay Samples  
.....

Copies sent to:

- 1. RANDALL LACOMBE, HOPE, B.C.
- 2.
- 3.

Samples: Sieved to mesh ..... Ground to mesh .....

Prepared samples stored: ..... X..... discarded: .....  
rejects stored: ..... discarded: .....

Methods of analysis:

- HM - SPECIFIC GRAVITY FLOTATION.
- AU, PT - FIRE.
- 31 ELEMENT TRACE ICP.

Remarks

PROJECT NO:

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 7-951

ATTENTION: R.LACOMBE

(604)980-5814 DR (604)988-4524

\* TYPE HM \* DATE: AUGUST 17, 1987

( PPM )	4B-700A- 40HM	4B-2000A -40HM	4B-4300A -40HM	4B-4900A -40HM	4B-4000B -40HM	4B-4000C -40HM	4B-2900D -40HM
AG	1.4	1.2	.9	1.1	1.2	1.1	.9
AL	16520	18850	15500	13890	12290	18460	25460
AS	57	114	177	<u>221</u>	<u>1152</u>	2	126
B	10	10	7	6	6	9	12
BA	56	63	52	53	57	62	49
BE	1.6	1.6	1.3	1.3	1.2	1.5	1.7
BI	5	6	7	7	8	11	8
CA	8740	8670	8120	10310	9740	12470	8500
CD	7.3	6.7	6.9	7.9	27.8	5.0	8.3
CO	17	20	13	12	15	22	15
CU	84	79	39	60	48	58	45
FE	<u>55160</u>	<u>55400</u>	42490	43550	39290	49180	<u>52620</u>
K	720	780	780	720	990	1070	560
LI	15	18	19	16	14	16	25
MG	20480	20420	11470	10400	8100	12010	18920
MN	642	680	463	488	372	578	726
MO	2	1	2	1	1	2	1
NA	130	100	180	220	170	130	70
NI	<u>121</u>	<u>102</u>	57	77	42	48	49
P	1590	1810	1310	2050	2170	2380	1120
PB	4	5	13	6	14	8	12
SB	4	4	4	1	4	5	4
SR	48	52	40	56	60	74	54
TH	1	1	1	1	1	1	1
U	2	1	1	4	2	6	3
V	51.4	49.7	50.3	47.4	42.2	55.5	59.8
ZN	87	87	74	90	90	95	90
GA	2	3	2	2	1	1	2
SN	1	3	2	2	2	2	3
W	2	7	6	41	4	1	7
CR	58	57	52	67	29	43	50
<u>AU-PPB</u>	20	<u>100</u>	<u>630</u>	<u>90</u>	26	5	14
PT-PPB	1	12	2	18	16	2	1
HMZ	7.61	8.63	9.66	7.33	6.84	15.68	15.16

COMPANY: RANDALL LACOMBE

MIN-EN LABS ICP REPORT

(ACT:616) PAGE 1 OF 1

PROJECT NO:

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 7-951

ATTENTION: RANDALL LACOMBE

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEOCHEM \*

DATE: AUGUST 8, 1987

(VALUES IN PPM)	AG	AS	CU	NI	PB	ZN	AU-PPB	PT-PPB
GR-DC-1-87	.1	23	20	1354	13	11	4	
GR-DC-2-87	.8	13691	105	63	77	32	160	
GR-DC-3-87	.1	6772	16	46	18	24	73	
GR-5-87A	1.6	5165	119	6	11	31	380	
GR-4-87	.2	38	13	2115	16	1	1	8

GR-5-87B 2.9 12136 260 ~~13~~ 13 196 2300