Geological and Geochemical Assessment Report

on the

04/85

BIG RANGE GROUP - NORTH

and

BIG RANGE GROUP - SOUTH

Located in the

New Westminster Mining Division
Latitude 49°20'N, Longitude 121°07'W
Map Sheet N.T.S. 92H/6

for

Golden Triangle Resources Ltd.

32655 - Rossland Place

Clearbrook, B.C.

(Field work between June 1 - July 15, 1984)

Report by:

Mr. D.G. Cardinal, P. Geol.
Consulting Geologist
Hope, B.C.
May 17, 1985

14,751

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85-343-14751

Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S): Geochemical and Geological Assessment Report — TOTAL COST:

AUTHOR(S): Dan Cardinal — SIGNATURE(S): Dan Cardinal

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED: April 23, 1985 — YEAR OF WORK: 1984

PROPERTY NAME(S): Big Range Group - North

COMMODITIES PRESENT: Mo, Cu, Au and Ag

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN:

MINING DIVISION: New Westminster — NTS: 92 H/6

LATITUDE: 49° 20' N — LONGITUDE: 121° 07' W

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

~~(Big Range Group - North)~~ Big Range 11 and, Big Range 13 - 17, Big Range 7 - 10

OWNER(S)

(1) Golden Triangle Resources Ltd (2)

MAILING ADDRESS

32655 Rossland Place
Clearbrook, B.C. V2T 3S8

OPERATOR(S) (that is, Company paying for the work)

(1) Sheen Minerals Inc. (2)

MAILING ADDRESS

Same as above

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

Geology underlying the claims consists of, N.W. trending serpentine belt (Hozameen Fault) in contact with Jurassic age slate, argillite & greywacke of the Ladner Group; and Paleozoic chert, cherty greenstone & argillite of the Hozameen Group. Gold & Arsenic anomalous zone occurs in sheared argillites & siltstones. Molybdenum & Arsenic mineralization is also hosted in a granitic plug.

REFERENCES TO PREVIOUS WORK: C.E. Cairnes (1924) Coquihalla Area, B.C., G.S.C. Memoir 139.

(over)

TABLE OF CONTENTS

A. INTRODUCTION:

In the Spring of 1984, the provincial government released a "no staking or exploration freeze zone" in an area located immediately north of Manning Park. The area, because of its' favorable geology and potential for precious metal deposits, was staked by Placer Development Ltd. and Golden Triangle Resources Ltd.. Golden Triangle staked 177 units called the Big Range Group (Big Range Group - North & South).

The Big Range claims are situated about 12 miles (19 km) east of the town of Hope, B.C. in a mountainous and valley region of the northern Cascade Range. A northwest-southeast trending serpentine-fault break referred to as the Hozameen Fault, is known to host numerous precious and base metal prospects, including several small former gold producing mines and one present producing gold mine. The Big Range property now covers about 8 (13 km) continous miles of this favourable belt.

In the 1984 field season, Sheen Minerals Inc. (the operator) conducted a reconnaissance program on the property under the supervision of the writer. Encouraged by the findings. Sheen proposes to carry out additional programs this season.

B. CLAIMS INFORMATION

The Big Range 7 - 17, totaling 177 contiguous claim units is divided into two (2) groups; the Big Range Group-North consisting of 95 units,and the Big Range Group-South having 82 units. The claims encompass an area of some 10,930 acres (4,425 hectares), and fall within the New Westminster Mining Division. The records can be examined at the mining recorder's office in New Westminster or at the sub-recorder's office in Vancouver, B.C..

Pertinent data is as follows:

Group Name	Claim Name	Units	Record No.	Expiry Date
Big Range Group-South	Big Range 7-10 & 12	82	2429 - 2432 &2434	April 24
Big Range Group-North	Big Range 11,& 13-17	95	2433 & 2435 - 2439	April 24

C. LOCATION AND ACCESS

The Big Range Group is located along the upper reaches of the Sawaqua Creek valley and its tributaries, and encompasses about 16 square miles (41 sq. km). The property is situated some 12 miles (19 km) east of the town of Hope, B.C. and Hope in turn, is only 90 miles (144 km) east of the city of Vancouver. Hope is a major service centre for satellite communites along the northern portion of Fraser Valley and Canyon. Caroline Gold Mines also draws its work force from the area. Presently, the property can only be reached by helicopter, some 20 minutes flying time from Hope. A logging road follows the northern part of Sawaqua Creek and extends into the north boundary of the claims. Unfortunately the road is not passable but logging companies have proposed to rebuild and extend the road to the head waters of Sawaqua Creek which would greatly facilitate access throughout much of the Big Range Group.

D. WATER AND POWER RESOURCE

The claims cover a number of streams including the Sawaqua Creek which can supply the water required for any future project(s). Electrical power source would have to be tapped from Hope where B.C. Hydro Transmission lines and sub-stations are located. Initial exploration/development phase would require portable-diesel generated electric power.

A major 4-lane highway is presently being constructed along the Coquihalla River Valley which will pass some 5 miles (8 km) north of the property's north boundary line.

E. PHYSOGRAPHY AND CLIMATE

The claims are situated in the northern Cascade Mountains of southwestern British Columbia and straddle a major northwest-southeast trending fault break with related physiographic changes. This break is herein referred to as the Hozameen-Cascade Belt. West of the fault break the claims cover rugged alpine, glaciated peaks and precipice valleys with topographic relief varying between 3,500 ft. (1,067m.) and 8,000 ft. (2,439 m). The narrow valley floors are covered by free standing virgin timber of, fir, and to a lesser extent hemlock, cedar and spruce. East of the break the property covers well rounded mountains, rolling topography with pine and park-like vegetation which gradually gives way to B.C.'s dry interior plateau.

The climate is relatively warm and dry, influenced more by the drier interior weather then by the coastal rains. During July and August (1984) temperatures reached well into +30oC range. In the alpine regions, the property can be explored for 3-4 months during snow-free conditions, but much of the property lies along Sawaqua Creek valley which is conducive to surface exploration for a least 6-7 months of the year.

F. BACKGROUND AND HISTORY

The first group of the Big Range claims were located in April,1984, shortly after Order-in-Council (O.I.C.) #994 (O.I.C. #994 prohibited staking and/or exploration activity) covering the area was recinded by the B.C. Provincial Government, opening the area for staking and exploration. The Big Range Group is presently held by a private company, Golden Triangle Resources Ltd. which in turn, has an option agreement with Sheen Minerals Inc. Sheen Can earn up to 50%, after exercising its' option. In 1981, O.I.C. #994 was introduced and a moraturium was placed on all logging and claim staking including the area covering the Big Range claims. Early this spring (1984) O.I.C. expired. Placer Development Ltd. immediately staked some 110 units in the area followed by Golden Triangle Resources Ltd. (Big Range Group), both covering a favourable geological belt. At the time of the moratorium the Mineral Resources Branch of the Ministry of Energy, Mines and Petroleum Resources stated that ..."the mineral potential is sufficiently high to oppose any mineral reserve designation for the area".

Other discoveries were made during the early 1900's to the north and south of the Big Range property along the same geological belt. The northern extension hosts a number of former small gold producers and one present producer (Carolin Mines). To the south of the property are also several small gold, silver and base metal mines and numerous mineral occurrences but unfortunately many of these showings are located within Manning Park or Skagit Valley Recreation area and cannot be explored.

. GENERAL GEOLOGY AND MINERAL OCCURRENCES

A major geological belt or fault break referred to as the Hozameen Fault, extending from Boston Bar, B.C. and well into northern state of Washington, U.S., is a host to a number of old precious and base metal camps.

The Hozameen Fault zone can be identified by its' northwest-southeast trending, continous to semi-continuous belt of serpentinized ultramafic rocks. The serpentine separates two distinct rock types. To the west is the Hozameen Group, Paleozoic in age, and consists predominantly of cherts, and cherty volcanics and sediments. The Hozameen Group hosts a few known potential mineral showings.

On the east, and in fault contact with the serpentine is the Ladner Group sediments of Jurassic age. The Ladner Group is composed mainly of slate, argillite and greywacke and is the host to an old gold mining camp which was revived by the discovery of the Idaho Zone deposit, now operated by Carolin Mines. This gold camp which includes a number of associated gold

and silver prospects, parallel and adjacent to the Hozameen Fault, is réferred to as the `Coquihalla Gold Belt'. The Big Range claims are located about 8 miles (12.8 km) southeast of the gold belt and cover the same structure and geology. The gold belt includes former gold producers such as, the Aurum, Emancipation, Pipestem and McMaster gold mines. Majority of the above gold deposits are hosted in the Ladner Group near the serpentine fault/contact zone and occur as quartz veins in greenstones and serpentine, and as replacement-type in greywacke units.

About 3 miles (5km) southeast of the Big Range group are a number of precious and base metal prospects, including several former small producing mines. The mining camp includes properties such as, the Silver Daisy (Cu,Zn, Pb, Ag); Mammoth (Mo, W); Invermay (Zn, Pb) and Giant Mascot's AM (Cu, Ag Au) property. The AM deposit contained over 2 million tons of copper, gold and silver. Unfortunately the majority of the deposists in this area are now in a park and recreational reserve and cannot be explored or mined.

The Hozameen Fault or serpentine belt hosts, the Coquihalla Gold Belt and its' old gold camps; the Big Range group discussed in detail below; and the precious and base metal mining camp mentioned above. The Big Range property covers a good portion of this potential precious metal belt and because of its' size (10, 930 acres) further work will be needed, for proper evaluation.

H. LOCAL GEOLOGY AND MINERALIZATION

The Big Range claims straddle the Hozameen Fault zone, herein referred to as the Hozameen - Cascade Belt. The work conducted by the writer this summer (1984) encountered geological sections and rock formations very similar to the Caroline Gold Mine and Coquihalla Gold Belt.

The property is underlain by serpentinized ultramafic and sedimentary rocks which parallel the Sawaqua Creek valley.

Serpentine and sub-outcrops of lithic greywacke and argillite were noted on Mattheu and Bushby Creeks near their confluences with Sawaqua Creek. Rice Creek, a small tributary of Sowaqua and situated on the east side of the valley, cuts across good rock exposure and mineralization. A quartz monzonite porphyry (felsic granite) plug of probable tertiary age intrudes argillites and slates of the Ladner Group. The felsic-granitic plug is exposed on both sides of Rice Creek and is cut by numerous quartz and fesic veins which in turn carry disseminations and veinlets of, molybdenite, chalcopyrite and arsenopyrite. Two, strong quartz-felsic sills associated with the plug were also noted and were traced for approximately a claim length (500 m). The sills are concordant to the bedding of the argillites and slates and are 8 ft. (2.4 m) to 12 ft. (3.6 m) wide. Both the plug and the associated sills invariably carry disseminated sulphides and combined, may host a large low grade, MoS2/Cu/Au type deposit.

Several grab samples collected from the above rocks assayed up to 0.917% molybdenite (MoS_2), 0.009 oz./ton gold, 0.74% Arsenic (As), and low silver, copper and tin values. Samples were also obtained along Sawaqua Creek from highly faulted and folded argillites. Some of the samples were amomalous in gold up to 1,040 parts per billion (ppb) Au, and 1000 parts per million (ppm) As. The argillites are in contact with faulted lithic-greywacke and serpentine which form part of the Hozameen Fault zone. Cherts and cherty argillites carrying minor diggeminated pyrrhotite were noted immediately west of the fault zone.

I. GEOCHEMICAL SAMPLING AND RESULTS

All of the work was centred around the base camp located at the confluence of Sowaqua and Rice Creeks. Most of the sampling and geological mapping straddles the Big Range Group North and South boundaries; with work concentrating on the Rice Creek Zone mineralization.

The methods used for control and tie-in of sampling points and rock outcrops was a combination of the employment of 1:10,000 scale topographic map; hipchain and altimeter measurements; and, triangulation - brunton compass readings.

The claim lines dividing the north and south groups were soil sampled approximately every 100 metres, except along talus slopes; and, creeks were silt sampled when encountered. Soil samples were collected from the 'B' horizon of the soil profile, where possible,and stored in standard sampling paper bags. All bags were identified corresponding to the sample station numbers (eg. SBR-1 etc.).Silt samples were identified as SSBR-1 etc.. Rock samples collected for assay were obtained from various rock types associated with oxidation, alteration and sulphide mineralization, and identified as RBR.

All the samples were sent to Bondar-Clegg & Company Ltd. in Vancouver for analysis. The majority of the samples were analyzed for Mo, Cu, Ag, Au, and As, with several tested for Sn (tin). Each sample was seived to -80 size fraction and subsequently extracted in a hot nitric acid solution (Cu,

Cont'd

I. GEOCHEMICAL SAMPLING AND RESULTS Cont'd

Mo, Ag) and then detected with Atomic Absorption (A.A.). As (Arsenic) was digested in Nitric Perchloric solution and detected with the Colourimetric method. Samples analyzed for Au were dissolved in Aqua Regia and Fire Assayed; plus, run through the A.A.. Sn was detected with X-Ray Fluorescence.

A total of 540 soil and silt samples were geochemically analyzed and 133 rock samples assayed. No statistical attempt has been made, at this point, to calculate for threshold, background and standard deviation levels for the geochemical results. The samples were collected from at least 4 different rock types or formations. It is therefore believed that further sampling will have to be conducted to properly derive figures with some degree of confidence, as each formation can be expected to have a different background and threshold level.

Two areas have been outlined as having anomalous zones: the Rice Creek zone just east of the base camp, and a shear zone, one claim (approx. 500 m.) south of camp on Sowaqua Creek. The Rice Creek, a felsic granitic plug, is consistantly anomalous in arsenic with values in molybdenite of up to 0.917%. The shear zone on Sowaqua Creek occurs in argillaceous sediments and is associated with iron carbonate lenses; and, in places, is geochemically anomalous with gold and arsenic- 1,040 ppb and 1,000 ppm respectively.

J. SUMMARY AND CONCLUSION

During June and July 1984, a geological reconnaissance sampling program was conducted on the Big Range Group - North and Big Range Group - South claims. The crew consisted of a geologist (writer) and a prospector: traverses were conducted from the base camp.A total of some 540 soil and silt samples and 133 rock samples were collected and analyzed for various base and precious metals.

During this period, an anomalous moly, arsenic; and (to a lesser extent) copper zone was outlined, hosted in a granitic plug and associated felsic sills, referred to as the Rice Creek Zone. Anomalous gold and arsenic zone was also outlined in sheared argillaceous sediments.

The above mentioned mineralized structures occur parallel and adjacent to the Hozameen Fault which, in places along its' strike length, is a host to several precious and base metal camps. Additional work on the Big Range Group should yield further encouraging results.

K. COST BREAKDOWN

BIG RANGE GROUP - NORTH 95 UNITS

	Cost
Personnel:	
Geologist; 10 days @ $300./day (June 1 - July 15, 1984)	$ 3000.00
Prospector; 10 days @ $150./day (June 1 - July 15, 1984)	1500.00
Mob. & Demob.:	
Helicopter, 3.0 hrs. @ $500./hr.	1500.00
Field:	
Geochemical, 350 samples @ $3.05/sample	1068.00
Assay, 80 samples @ $8.35/sample	668.00
Camp & Equipment	1264.00
Office:	
Report writing	500.00
	$ 9500.00

BIG RANGE GROUP - SOUTH 82 UNITS

Personnel:	
Geologist; 10 days @ $300./day (June 1 - July 15, 1984)	$ 3,000.00
Prospector; 10 days @ $150./day (June 1 - July 15, 1984)	1,500.00
Mob. & Demob.:	
Helicopter, 2.2 hrs @ $500./hr.	1,100.00

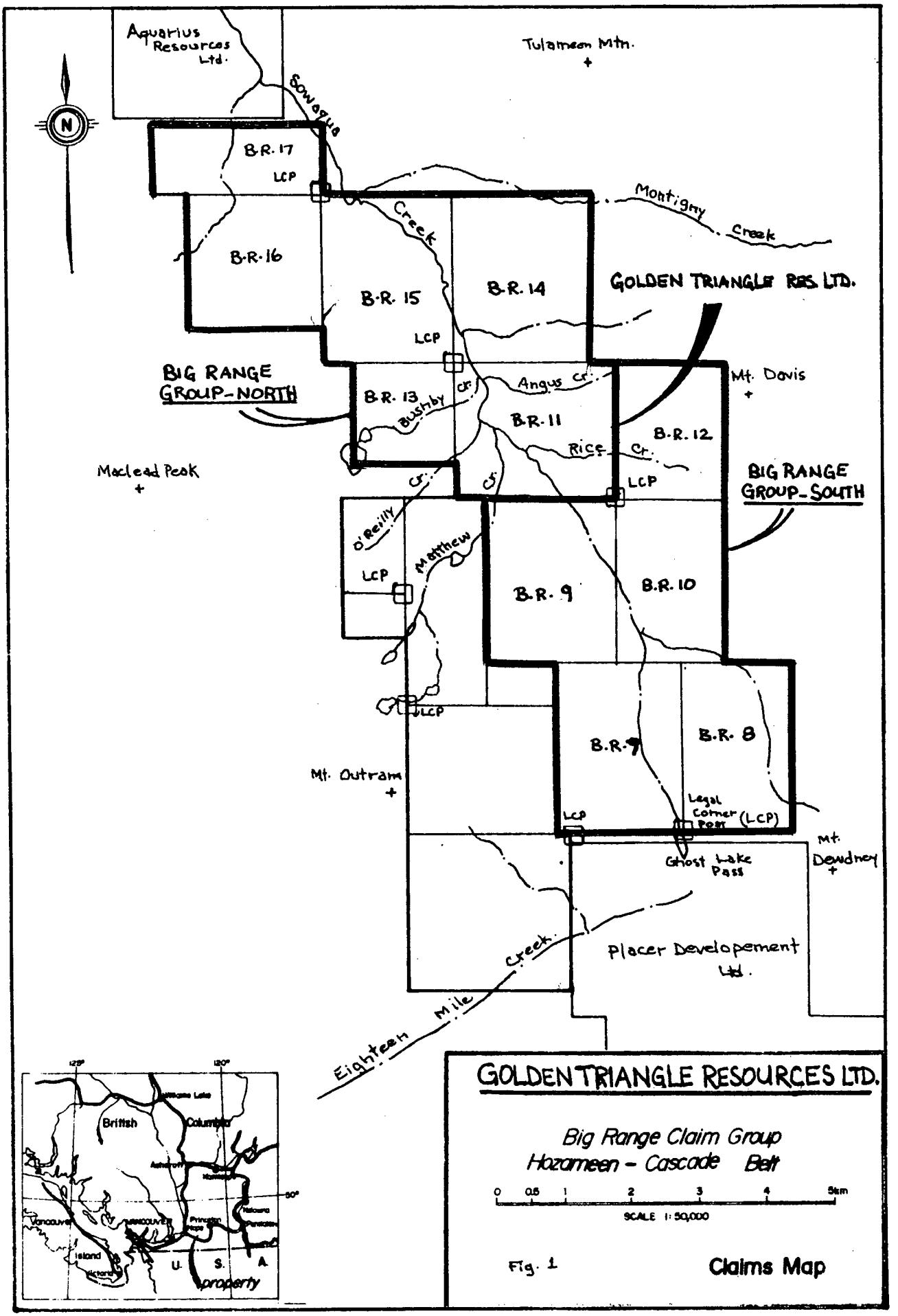
Cont'd

K. COST BREAKDOWN Cont'd

	Cost
Field:	
Geochemical, 190 samples @ $3.05/sample	$ 579.00
Assay, 53 samples @ $8.25/sample	443.00
Camp & Equipment	1,078.00
Office:	
Report writing	500.00
	8,200.00

Respectfully submitted,

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


Aquarius Resources Ltd.
Tulameen Mtn.
Sowaqua
B.R. 17
LCP
Creek
Montigny Creek
B.R. 16
B.R. 15
B.R. 14
GOLDEN TRIANGLE RES. LTD.
BIG RANGE GROUP-NORTH
LCP
Mt. Davis
B.R. 13
Bushby Cr.
Angus Cr.
B.R. 11
B.R. 12
Rice Cr.
Maclead Peak
LCP
BIG RANGE GROUP-SOUTH
O'Reilly Cr.
Matthew Cr.
LCP
B.R. 9
B.R. 10
LCP
B.R. 7
B.R. 8
Mt. Outram
LCP
Legal Corner Post (LCP)
Mt. Dewdney
Ghost Lake Pass
Placer Developement Ltd.
Eighteen Mile Creek
British Columbia
Vancouver
Island
U. S. A.
property
GOLDEN TRIANGLE RESOURCES LTD.
Big Range Claim Group
Hozameen - Cascade Belt
0 0.5 1 2 3 4 5km
SCALE 1:50,000
Fig. 1
Claims Map

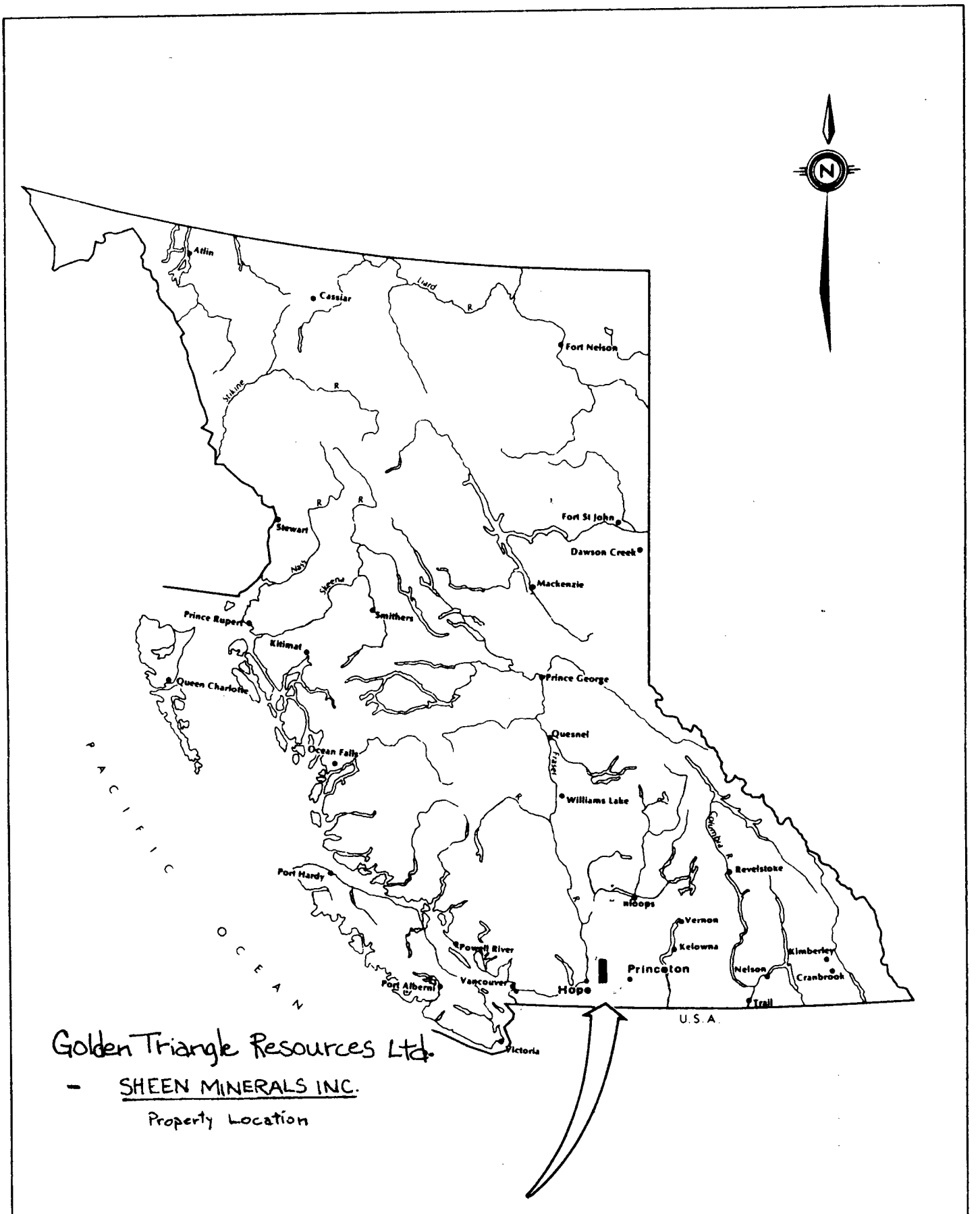
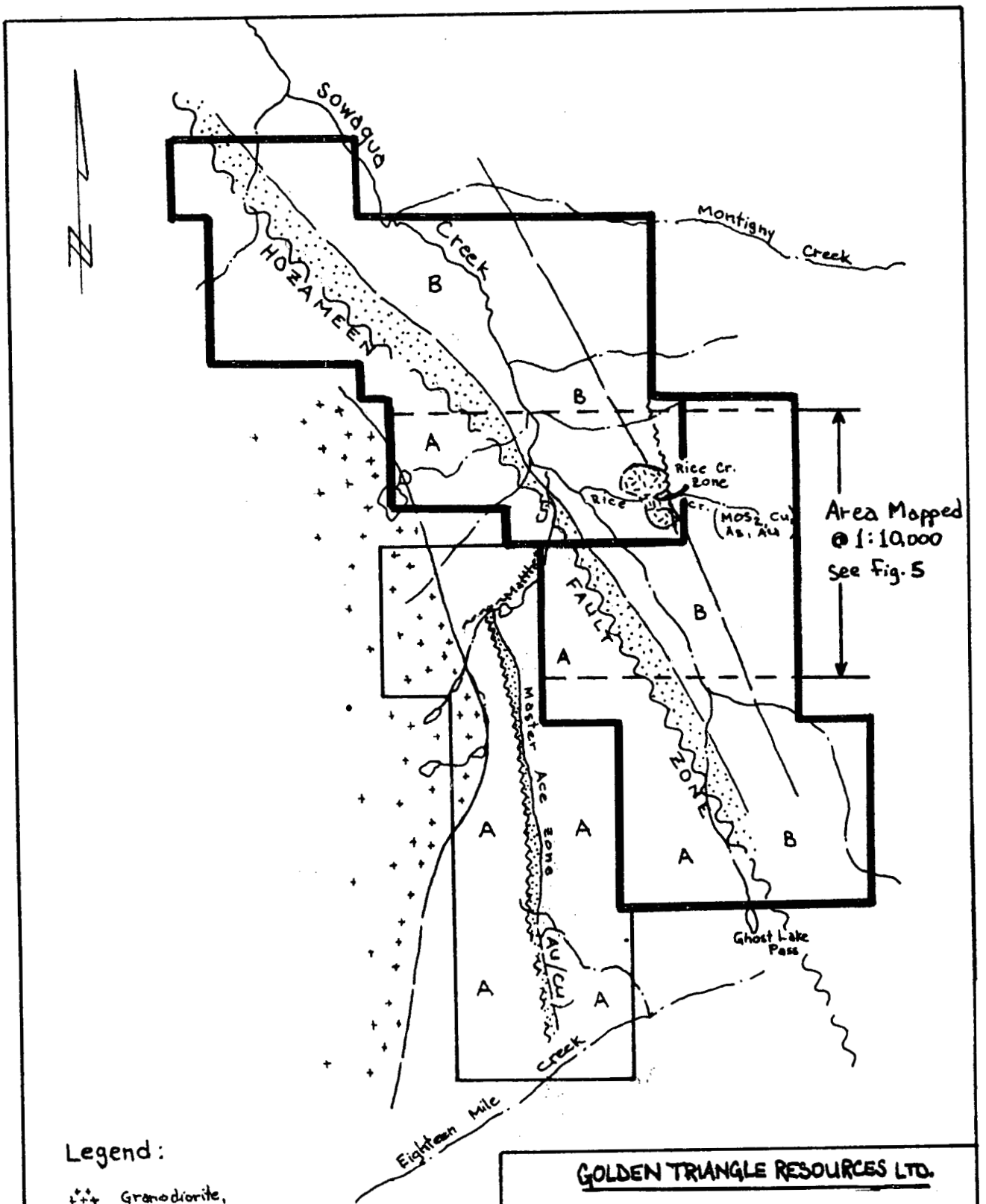


Figure 2: BIG RANGE CLAIM GROUP
- Location map



Legend:

- Granodiorite, Diorite.
- Quartz Monzonite, Felsic quartz Porphyry (Tertiary?) (Rice Creek Zone).
- Serpentine Belt, Peridotite, Ultramic.
- B Slate, Argillite, Greywacke (Ladner Group) Jurassic.
- A Chert, Cherty greenstone, Cherty Argillite (Hazameen Group) Paleozoic.

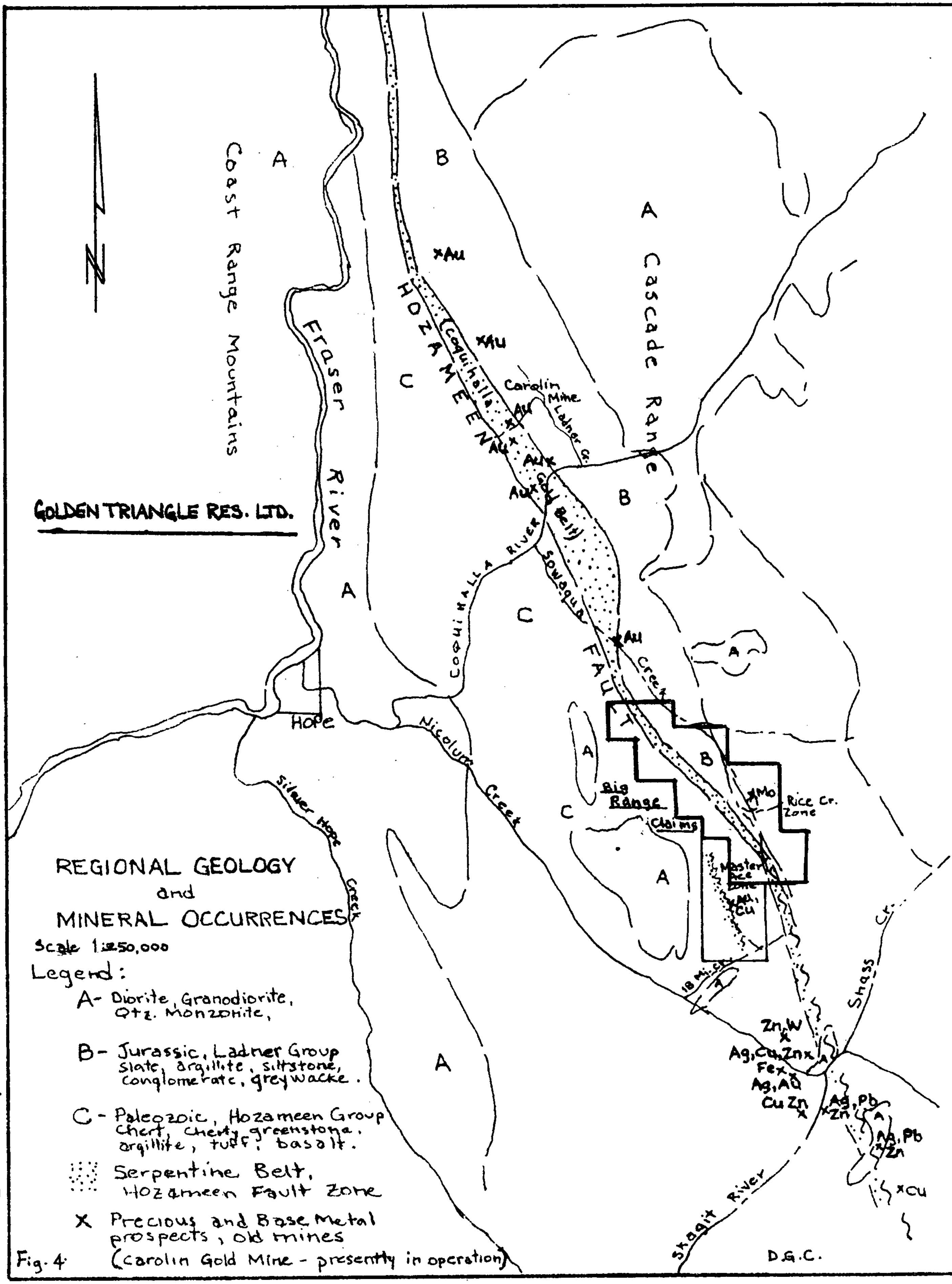
GOLDEN TRIANGLE RESOURCES LTD.

Big Range Claim Group
Hazameen - Cascade Belt

0 0.5 1 2 3 4 5 Km
SCALE 1:50,000

GENERAL PROPERTY GEOLOGY

Fig 3


GOLDEN TRIANGLE RES. LTD.
REGIONAL GEOLOGY
and
MINERAL OCCURRENCES
Scale 1:250,000
Legend:
A - Diorite, Granodiorite, Qtz. Monzonite,
B - Jurassic, Ladner Group
slate, argillite, siltstone, conglomerate, greywacke.
C - Paleozoic, Hozameen Group
Chert, cherty greenstone, argillite, tuff, basalt.
Serpentine Belt, Hozameen Fault Zone
X Precious and Base Metal prospects, old mines
(Carolin Gold Mine - presently in operation)
Fig. 4
D.G.C.
N
Coast Range Mountains
Cascade Range
Fraser River
HOZAMEEN FAULT
(Coquihalla Gold Belt)
Carolin Mine
Ladner Cr.
Coquihalla River
Sowaqua Creek
Hope
Nicolum Creek
Silver Hope Creek
Big Range Claims
Rice Cr. Zone
Master Ace Zone
18 Mi. Cr.
Shass Cr.
Skagit River
Au
Mo
Au, Cu
Zn, W
Ag, Cu, Zn
Fe
Ag, Au
Cu Zn
Ag, Pb
Zn
Cu

APPENDIX I

CERTIFICATE

I, Daniel G. Cardinal of the Municipality of Hope, British Columbia do hereby certify that:

1. I am a professional geologist residing in Hope, B.C., mailing address, P.O. Box 594, Hope, B.C., V0X 1L0.
2. I am a graduate of the University of Alberta (1975), with a B.Sc. degree in Economic Geology and a Graduate of the Northern Alberta Institute of Technology with a Geological Technologist diploma (1970).
3. I am a member in good standing with the Association of Professional Engineers, Geologists and Geophysicists of Alberta, and a member of the Canadian Institute of Mining and Metallurgy.
4. Since 1968, I have been actively involved in the Canadian Mining Industry both as a prospector and a professional geologist, with projects in Northern and Western Canada, and in the Western Stated of the U.S.A..

GEOLOGICAL ASSOCIATION OF CANADA
D. G. CARDINAL
FELLOW

Daniel G. Cardinal, P. Geol.

APPENDIX II

REFERENCES:

Cardinal, D.G. 1980 - 84	Various unpublished assessment and in-house company reports on the Coquihalla Serpentine Gold Belt, and Hozameen and Nahatlatch Serpentine Belts
Cairnes, C.E. 1924	Coquihalla Area, British Columbia G.S.C., Memoir 139
Freeland, P.B. 1930 - 33	Report of the Minister of Mines Master Ace, Rambler and Master Ace Groups.
Ford, W.S. (late 1940's)	A Brief Report on the Master Ace Groups of M.C.'s unpublished, independent report.
Monger, I.W.H. 1969	Hope Map-Area, West Half (92H/ W½), British Columbia G.S.C. Paper 69-47.
Ray, G.E. 1982-1983	Carolin Mine - Coquihalla Gold Belt Project (92H/6,11) B.C.-Ministry of Energy, Mines and Petroleum Resources.
1984	Coquihalla Gold Belt Project (92H/11,14) B.C. - Ministry of Energy, Mines and Petroleum Resources.
	Cascade Wilderness Study Status Report, 1981 Ministry of Municipal Affairs
	National Geochemical Recannaissance Regional Geochemical Survey - 1981 Ministry of Energy, Mines and Petroleum Resources.

Mr. Dan Rice - personal communication

APPENDIX III

GEOCHEMICAL LAB REPORT

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

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 124-0987

FROM: SHEEN MINERALS INC. SUBMITTED BY: D. CARDINAL
DATE: 14-JUN-84 PROJECT: BIG RANGE

ORDER	ELEMENT	LOWER DETECTION LIMIT	EXTRACTION	METHOD	SIZE FRACTION	SAMPLE TYPE	SAMPLE PREPARATIONS
01	Cu	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption	-80	VARIOUS SAMPLE T	DRY, SEIVE -80
02	Mo	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption	-80		
03	Ag	.2 PPM	HNO3-HCL HOT EXTR	Atomic Absorption	-80		
04	As	2 PPM	NITRIC PERCHLOR DIG	Colourimetric	-80		
05	Au	5 PPB	AQUA REGIA	Fire Assay AA	-80		
06	wt/Au	.01					
07	Sn	5 PPM		X-RAY Fluorescence	-80		

REPORT COPIES TO: MR. R.A. SUTTON
MR. DAN CARDINAL

INVOICE TO: MR. R.A. SUTTON

REMARKS: 1. Au - CALCULATED ON A SMALL SAMPLE
VALUES IN Au WEIGHT COLUMN ARE -20 FRACTION

DETECTION LIMITS FOR GOLD
20 GRAM SAMPLE: 5 PPB.
10 GRAM SAMPLE: 10 PPB.
1 GRAM SAMPLE: 100 PPB.

SAMPLE WT. 20 G. UNLESS OTHERWISE STATED.

NOTE:
CHECK CONCENTRATION/SAMPLE WEIGHT RATIO
FOR EFFECTIVE DETECTION LEVEL.

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

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 124-0639

PROJECT: BIG RANGE PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Mo PPM	Ag PPM	As PPM	Au PPB	Sb PPM	NOTES
R OC-N384		4	475	1.1	900	<5	<2	- Minor sulphides. Felsic - gtz/feldspar porphyry.

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

BONDAR-CLEGG

Certificate of Analysis

REPORT: 424-0639

PROJECT: BIG RANGE PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Cu PCT	MoS2 PCT	Sb PCT	As PCT	NOTES
R BC-S184		0.002	0.07	0.01	0.006	0.02	0.46	
R BC-S284		<0.002	0.11	0.03	0.020	0.02	0.50	

Registered Assayer, Province of British Columbia

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

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 124-0987 | PROJECT: BIG RANGE | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Mo PPM	Ag PPM	As PPM	Au PPB	wt/Au	Sn PPM	NOTES
S S/BR-1		24	9	0.6	400	<5	16.00	<5	
S S/BR-2		7	8	0.2	11	<5	2.00	<5	
S S/BR-3		18	7	0.4	145	<10	3.00	<5	1‡
S S/BR-4		13	2	<0.2	9	<5	13.00	<5	
S S/BR-5		29	4	<0.2	52	<5	15.00	<5	
S S/BR-6		8	1	<0.2	10	<5	20.00	<5	
S S/BR-7		15	2	<0.2	55	<5	3.00	<5	
S S/BR-8		22	2	<0.2	20	<5	3.00	<5	
S S/BR-9		15	1	<0.2	60	<5	13.00	<5	
S S/BR-10		24	3	0.5	20	<5	6.00	<5	
S S/BR-11		12	3	<0.2	19	10	10.00	<5	
S S/BR-12		21	2	0.5	13	<5	9.00	<5	
S S/BR-13		25	1	0.2	24	<5	13.00	<5	
S S/BR-14		26	6	0.2	22	<5	4.00	<5	
S S/BR-15		14	2	<0.2	10	<5	15.00	<5	
S S/BR-16		24	5	<0.2	13	10	5.00	<5	
T SS/BR-1		34	3	<0.2	16	<5	11.00	<5	
T SS/BR-2		36	6	<0.2	82	<5	20.00	<5	
T SS/BR-3		25	2	<0.2	22	<5		<5	
T SS/BR-4		54	7	<0.2	40	<5	20.00	<5	
T SS/BR-5		57	4	<0.2	52	<5	10.00	<5	

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Certificate of Analysis

REPORT: 424-0987

BIG RANGE

FROM: SHEEN MINERALS INC. SUBMITTED BY: D. CARDINAL
DATE: 11-JUN-84 PROJECT: BIG RANGE

ORDER	ELEMENT	LOWER DETECTION LIMIT	EXTRACTION	METHOD	SIZE FRACTION	SAMPLE TYPE	SAMPLE PREPARATIONS
01	Au	.002 OPT			-150	ROCK OR BED ROCK	ASSAY PREP
02	Ag	.02 OPT			-150		
03	Cu	.01 PCT			-150		
04	MoS2	.002 PCT			-150		
05	As	.01 PCT			-150		
06	Sn	.01 PCT			-150		

REPORT COPIES TO: MR. R.A. SUTTON
MR. DAN CARDINAL

INVOICE TO: MR. R.A. SUTTON

Registered Assayer, Province of British Columbia

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
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REPORT: 424-0987 | PROJECT: BIG RANGE | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Cu PCT	MoS2 PCT	As PCT	Sn PCT	NOTES
R 27201		<0.002	0.06	0.02	0.030	0.42	0.02	
R 27202		<0.002	0.08	0.01	0.123	0.35	<0.01	
R 27203		0.003	0.05	<0.01	0.007	0.48	<0.01	
R 27204		<0.002	<0.02	<0.01	0.007	<0.01	<0.01	
R 27205	RBR 1	<0.002	0.05	<0.01	0.100	0.29	<0.01	
R 27206	RBR 2	<0.002	0.04	<0.01	0.010	0.62	<0.01	
R 27207	RBR 3	0.002	0.02	<0.01	0.007	0.02	<0.01	
R 27208	RBR 4	<0.002	0.03	<0.01	0.120	0.05	<0.01	
R 27209	RBR 5	0.002	0.20	<0.01	0.043	0.41	0.04	
R 27210	RBR 6	0.002	0.02	<0.01	0.008	0.54	<0.01	
R 27211	RBR 7	<0.002	<0.02	0.01	0.007	0.01	<0.01	
R 27212	RBR 8	<0.002	0.02	<0.01	0.007	0.41	<0.01	
R 27213		<0.002	0.02	<0.01	0.012	0.10	<0.01	
R 27214	Samples From old trenches	0.007	0.05	<0.01	0.007	0.41	<0.01	
R 27215		0.002	0.02	<0.01	0.008	0.30	<0.01	
R 27216		<0.002	0.04	<0.01	0.010	0.16	<0.01	
R 27217	Rice Ck. Zone	0.002	0.09	<0.01	0.012	0.74	0.02	
R 27218		0.009	0.09	0.04	0.917	0.02	<0.01	- Trench on top of Rice Cr. Zone

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Certificate of Analysis

REPORT: 424-1037

PROJECT: ~~NONE GIVEN~~ BIG RANGE PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Mo PCT	As PCT	Sn PCT	W PCT	NOTES
R 27226	RBR-16	<0.002	0.02	0.004	0.65	<0.01	0.01	
R 27229	RBR-17						0.01	
R 27233	RBR-23	<0.002	0.03	0.005	0.46	<0.01	0.01	

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BONDAR-CLEGG

Geochemical Lab Report

REPORT: 124-1037

BIG RANGE

PROJECT: ~~NONE GIVEN~~ PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Mo PPM	W PPM	As PPM	Au PPB	Sn PPM	NOTES
R 27221	RBR 11	0.2	<1		1000	<5	10	
R 27222	RBR 12	0.3			270	10	5	
R 27225	RBR 13	0.4	1	18	> 1000	<5	6	
R 27227	RBR 14	1.0	4		> 1000	<5	26	
R 27228	RBR 15	0.2			60	<5		
R 27232	RBR 22	0.6			> 1000	1040		
R 27234	Samples	<0.2			800	20		
R 27235	From	0.6			> 1000	45		
R 27236	Sowaqua Ck	0.2			100	10		
R 27237	Fault zone	<0.2			> 1000	120		
R 27238		3.1			> 1000	5		

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Geochemical Lab Report

REPORT: 124-1036

BIG RANGE
PROJECT: ~~NONE GIVEN~~ PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Mo PPM	Ag PPM	As PPM	Au PPB	wt/Au	Sn PPM	NOTES
S 6+00N-1+75W		40	38	0.4 >	1000	5		24	
S 6+00N-2+00W		73	22	0.3	380	<5	12.00	<5	
S 6+00N-2+25W		34	33	0.4	800	10	8.00	29	
S 6+50N-1+50W		19	6	0.3	40	<5		<5	
S 6+50N-1+75W		15	26	0.3	40	<5	9.00	<5	
S 6+50N-2+00W		13	62	0.4	82	<5	5.00	<5	
S 6+50N-2+25W		8	13	<0.2	220	<5		<5	
S 6+50N-2+50W		23	12	0.4	400	<5	8.00	<5	
S 7+00N-0+25W		17	2	0.4	14	<5	10.00	<5	
S 7+00N-0+50W		15	1	0.3	10	<5	10.00	<5	
S 7+00N-0+75W		14	1	0.3	12	<5	9.00	<5	
S 7+00N-1+00W		9	<1	0.3	14	<5	13.00	<5	
S 7+00N-1+25W		14	1	<0.2	16	<5		<5	
S 7+00N-1+50W		19	2	0.3	400	<5	15.00	<5	
S 7+00N-1+75W		10	3	0.6	42	<5	12.00	<5	
S 7+00N-2+00W		19	69	0.3	80	<5	12.00	<5	
S 7+00N-2+25W		20	66	0.9	700	<5	10.00	<5	
S 7+00N-2+50W		10	21	<0.2	600	<5	10.00	10	
S AR-16			6	0.6	52	20		<5	
S AR-26			5	1.1 >	1000	175	18.00	<5	✓
S AR-36			3	1.3 >	1000	740		<5	✓
S SIBR-17			5	0.4	155	<5	10.00	<5	
S SIBR-18			3	0.3	26	<5	10.00	<5	
S SIBR-19			3	0.2	14	<5	12.00	<5	
S SIBR-20			10	0.3	240	20		<5	
T SSIBR-7			10	0.2	130	<5	5.00	<5	
T SSIBR-8			1	0.4	21	<5	5.00	<5	
T SSIBR-9			3	0.4	22	<5	10.00	<5	
T SSIBR-10			2	0.4	19	<5	6.00	<5	
T SSIBR-11			4	0.2	28	<5	16.00	<5	
T SSIBR-12			4	<0.2	35	<5	18.00	<5	
T SSIBR-13			1	0.2	23	<5		<5	
T SSIBR-14			2	0.2	7	5		<5	
T SSIBR-15			2	0.4	65	<5		<5	

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Geochemical Lab Report

REPORT: 124-1898

BIG RANGE
PROJECT: ~~NONE GIVEN~~ PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Au PPB	wt/Au	NOTES
S RBR18AS		0.8	48	10	3.00	
S RBRS21A		0.3	11	<5	14.00	
S RBR30		IS	580	95	1.04	1k
S SBR35		0.3	70	<5	10.00	
S SBR36		1.2	120	10	6.00	
S SBR37		1.6	170	15	10.00	
S SBR38		<0.2	8	5	7.00	
S SBR39		0.6	18	5	10.00	
S SBR39A		1.0 >	1000	130	11.00	
R AM-16484A		0.2	52	5		
R CSA2		<0.2	7	<5		
R CSA3		<0.2	3	<5		
R CSM1		<0.2	3	<5		
R CSWF1		1.9	21	35		
R RBR18AR		<0.2	75	25		
R 19A		<0.2	7	5		
R RBR20A		<0.2	510	5		
R RBR21AR		<0.2	4	5		
R RBR22A		0.2 >	1000	220		
R RBR31		<0.2	48	<5		
R RBR32		<0.2	90	20		
R RBR33		4.5	120	25		
R RBR34		<0.2	3	15		
R RBR35		<0.2	6	<5		
R RBR36		<0.2	520	10		

BIG RANGE
shear zone
s. g camp
&
qtz. vein ~ 1 cl. below
s. g camp.

BONDAR-CLEGG & COMPANY LTD.
130 PEMBERTON AVE., NORTH VANCOUVER, B.C. V7P 2R5 PHONE: 985-0681 TELEX: 04-352667

BIG RANGE GROUP

SEMI-QUANTITATIVE ANALYSIS

No: 424-0987

Sample No.: 27217 From: SHEEN

Method: XRF and E-SPEC Date: June 21 1984

No. of Elements: 35 Analyst:

TRACE ELEMENTS (%)	< .003	.003 - .01	.01 - .03	.03 - 0.1	0.1 - 0.3	0.3 - 1.0	1.0 - 3.0	3.0 - 10.0	> 10.0	REMARKS
Ag	X									
Cu	X									
Pb			X							
Zn	X									
Mo			X							
Fe							X			
W		X								
Ni	X									
Co	X									
Cr			X							
As						X				* < .01%
Sb	X									
Mn		X								
V	X									
Bi	X									
Sn			X							
Zr		X								
B	X									* > 0.2%
Ba	X									
Be	X									* > 0.1%
La	X									
Nb	X									
Sr			X							
Y		X								
Ce	X									
U	X									
Th	X									
MAJOR ELEMENTS (%)										
CaO						X				
MgO				X						
TiO_2			X							* > 2%
Na_2O								X		* > 7%
K_2O					*					* < 0.6%
SiO_2									X	* < 2%
Al_2O_3								X		* < 0.2%
P_2O_5						*				* < 0.4% * > 4.0%

* Not measured less than or above noted detection limits

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,751

GOLDEN TRIANGLE RESOURSES LTD.

BIG RANGE GROUP - NORTH
and
BIG RANGE GROUP - SOUTH
New Westminster Mining Division
N.T.S. 92 H/6

LOCAL GEOLOGY and SAMPLING LOCATIONS

Scale - 1 : 10,000
0 100 200 300 400 500 600 metres

D. Cardinal, P. Geol.

Fig. 5

LEGEND:

- Quartz Monzonite, Felsic Qtz. Porphyry (Plug). Molybdenite, Arsenopyrite, Chalcopyrite. — RICE CREEK ZONE
- Argillite, slate — Ladner Group
- Greywacke — Ladner Group
- Felsic (rhyolitic) Sills Arsenopyrite Mineralization
- Serpentenite - HOZAMEEN FAULT ZONE
- Hornfels, argillite
- Cherty Volcanics - greenstone
- Chert
  (Hornfels, Cherty Volcanics - greenstone, Chert — HOZAMEEN GROUP)
- Fault
- Rock outcrop
- Contact
- Inferred Contact
- 78 strike & dip of bedding
- old Trenche
- Legal Corner Post (LCP)
- Corner Post (CP)

Sample Areas

- Silt Sample Big Range (SSBR 16)
- Rock " " (RBR 10)
- Soil " " (SBR 6)

Au parts per billion (ppb)
Ag " " million (ppm)