

GEOCHEMICAL REPORT ON THE
LOGAN CLAIM GROUP

Watson Lake Mining District, Y.T., NTS 105B-7,8,9
Latitude 60°28'N, Longitude 130°28'W

ASSESSMENT REPORT

November, 1982

091400

MICROFILMED

DATE *Jan 84* Indexed

GEOCHEMICAL REPORT ON THE

LOGAN CLAIM GROUP

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

NTS: 105B-7, 8, 9

Latitude: 60°28'N; Longitude: 130°28'W

FOR

REGIONAL RESOURCES LTD.

1418 - 355 Burrard Street
Vancouver, B.C. V6C 2G8

BY

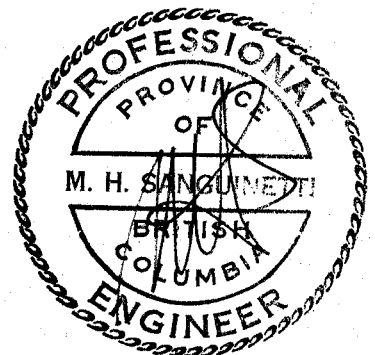
J. D. Rowe, B.Sc., Geologist

and

M. H. Sanguinetti, P.Eng., Geologist

CORDILLERAN ENGINEERING

NOVEMBER, 1982



CLAIMS: Logan #1 to 36 inclusive
GRANT NUMBERS: YA 45047-45052, YA 46254-46283
LOCATION: 108 km (67 mi) NW of Watson Lake, Y.T.
WORK PERIOD: June 25 to September 11, 1982



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
 YUKON QUARTZ MINING ACT
 FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK



(This form required in duplicate with sketch showing location of work.)

I (Name)	M. H. Sanguinetti	Occupation	Geologist
(Postal Address)	1418-355 Burrard St., Vancouver, B.C. V6C 2G8		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
2. I have done, or caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

YA 46279 Logan 32
 YA 46281 Logan 34

situated at 28 mi. north of Rancheria Claim Sheet No. 105 B-8

in the Watson Lake Mining District, to the value of at least \$1200.00

dollars, since the 31st day of December 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3595

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

1 years renewal requested for each of:

YA 46272-83 (inclusive) Logan #25-36 (inclusive) 31 Dec 85 Regional Government Ltd.

For a total of 12 claim years

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

A geochemical survey covering portions of Logan #13,15,32,34 was conducted on June 25, 26, 1982. Expenses for this geochemical survey (\$3,323.95) are included in the total on the attached statutory declaration. This work is described in the accompanying "Geochemical Report on the Logan Claim Group".

Sworn before me at Vancouver, B.C.

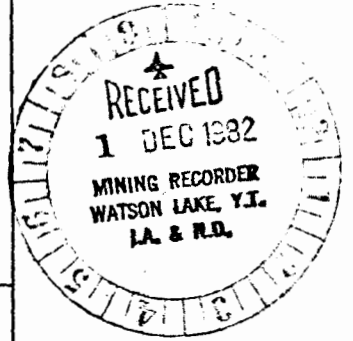
this 26 day of November 1982.

[Signature]
 Notary Public

[Signature]
 Applicant



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
YUKON QUARTZ MINING ACT
FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK



(This form required in duplicate with sketch showing location of work.)

(Name)	M. H. Sanguinetti	Occupation	Geologist
(Postal Address)	1418-355 Burrard St., Vancouver, B.C. V6C 2G8		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

YA 46260 Logan 13
YA 46262 Logan 15

situated at 28 mi. N of Rancheria Claim Sheet No. 105-B-7,8,9

in the Watson Lake Mining District, to the value of at least \$1,000.00

dollars, since the 31st day of December 19 81.

to represent the following mineral claims under the authority of Grouping Certificate No. 3394

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

1 years renewal requested for each of:

YA 46256-65 (inclusive) LOGAN #9-18 (inclusive) 31 Dec 84 *Renewal requested*

For a total of 10 claim years

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

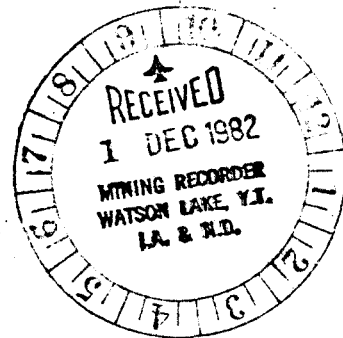
A geochemical survey covering portions of Logan #13,15,32,34 was conducted on June 25, 26, 1982. Expenses for this geochemical survey (\$3,323.95) are included in the total on the attached statutory declaration. This work is described in the accompanying "Geochemical Report on the Logan Claim Group".

Sworn before me at Vancouver, B.C.
this 26 day of November 19 82.

E. A. Balcer
Notary Public

M. H. Sanguinetti
Applicant

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
 YUKON QUARTZ MINING ACT
 FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK



(This form required in duplicate with sketch showing location of work.)

I (Name) M. H. Sanguinetti Occupation Geologist

(Postal Address) 1418-355 Burrard St., Vancouver, B.C. V6C 2G8

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

YA 45048 LOGAN #2

situated at 28 mi. N. of Rancheria Claim Sheet No. 105 B-9

in the Watson Lake Mining District, to the value of at least \$1400.00

dollars, since the 31st day of December 19 81,

to represent the following mineral claims under the authority of Grouping Certificate No. 33913

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

1 years renewal requested for each of:

YA 45047-52 incl.
 YA 46254-55 incl.
 YA 46266-71 incl.

Logan #1-6 incl.
 Logan #7-8 incl.
 Logan #19-24 incl.

31 Dec 84 Regional Resources Ltd

For a total of 14 claim years

- The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

Two trenches were blasted and dug by hand on Sept. 11, 1982 by a crew of 4 men. Dimensions of trenches (LxWxD) are: #1: 6.1m x 1.5m x 1.4m = 12.8 cu metres
 #2: 7.6m x 0.6m x 0.9m = 4.1 cu metres

Expenditures for this work (\$1,532.00) are included in the attached statutory declaration.

Sworn before me at Vancouver, B.C.

this 26 day of November 1982.

E.A. Balor
 Notary Public

M.H. Sanguinetti
 Applicant

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<u>APPENDIX "D"</u>	Analytical Certificates (Bondar-Clegg & Co. Ltd.)
<u>APPENDIX "E"</u>	Personnel

1.

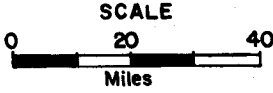
INTRODUCTION

The Logan group (114 claims) is located 107 kilometres (66 miles) northwest of Watson Lake, Y.T., in the Watson Lake Mining District (Figure 1). The claims are centred at latitude 60°28'N and longitude 130°28'W, 37 kilometres (23 miles) northwest of the Alaska Highway. Access in 1982 was by helicopter. Logan #1 to #36 were staked during 1979 for Regional Resources Ltd. by Cordilleran Engineering, and Logan #37 to #114 were added in 1980 (Figure 2).

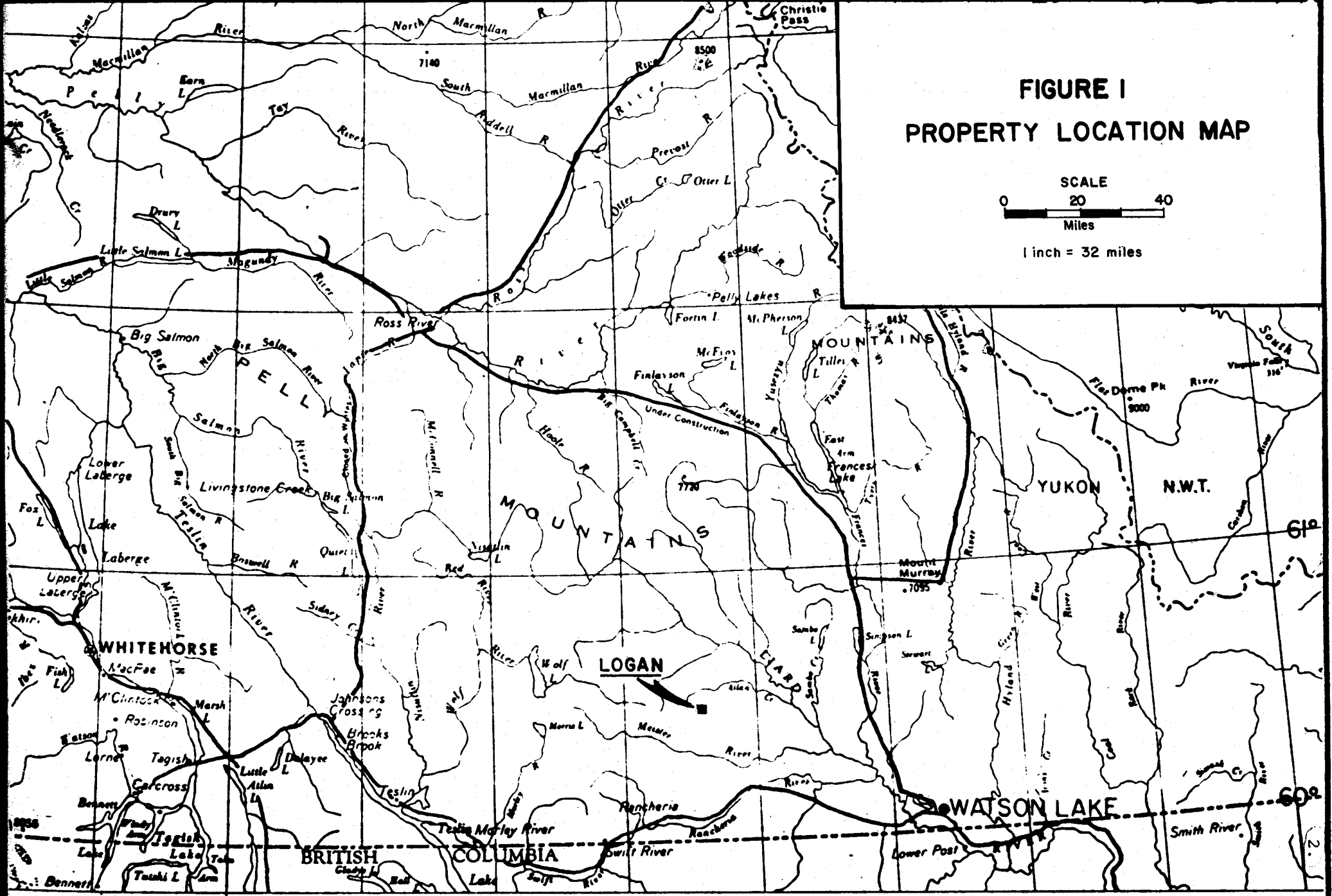
A significant vein system (Main Vein) containing Zn, Ag, Cu and Sn mineralization is hosted by highly altered granodiorite on the northern part of the property. Mineralized float occurs intermittently along a strike length of 500 metres; grab samples contain up to 35.88% Zn, 10.87 oz/ton Ag and 1.42% Cu. Chip samples across a trenched exposure of the Main Vein (1.78 metres) average 7.22% Zn, 1.86 oz/ton Ag and 0.73% Cu. Samples of brecciated felsite cut by quartz stockwork contain up to 1.42% Sn, with minor sphalerite and arsenopyrite¹

¹ Geological, Geochemical and Geophysical Report on the Logan Claim Group, C.G. Verley, Jan. 1980.

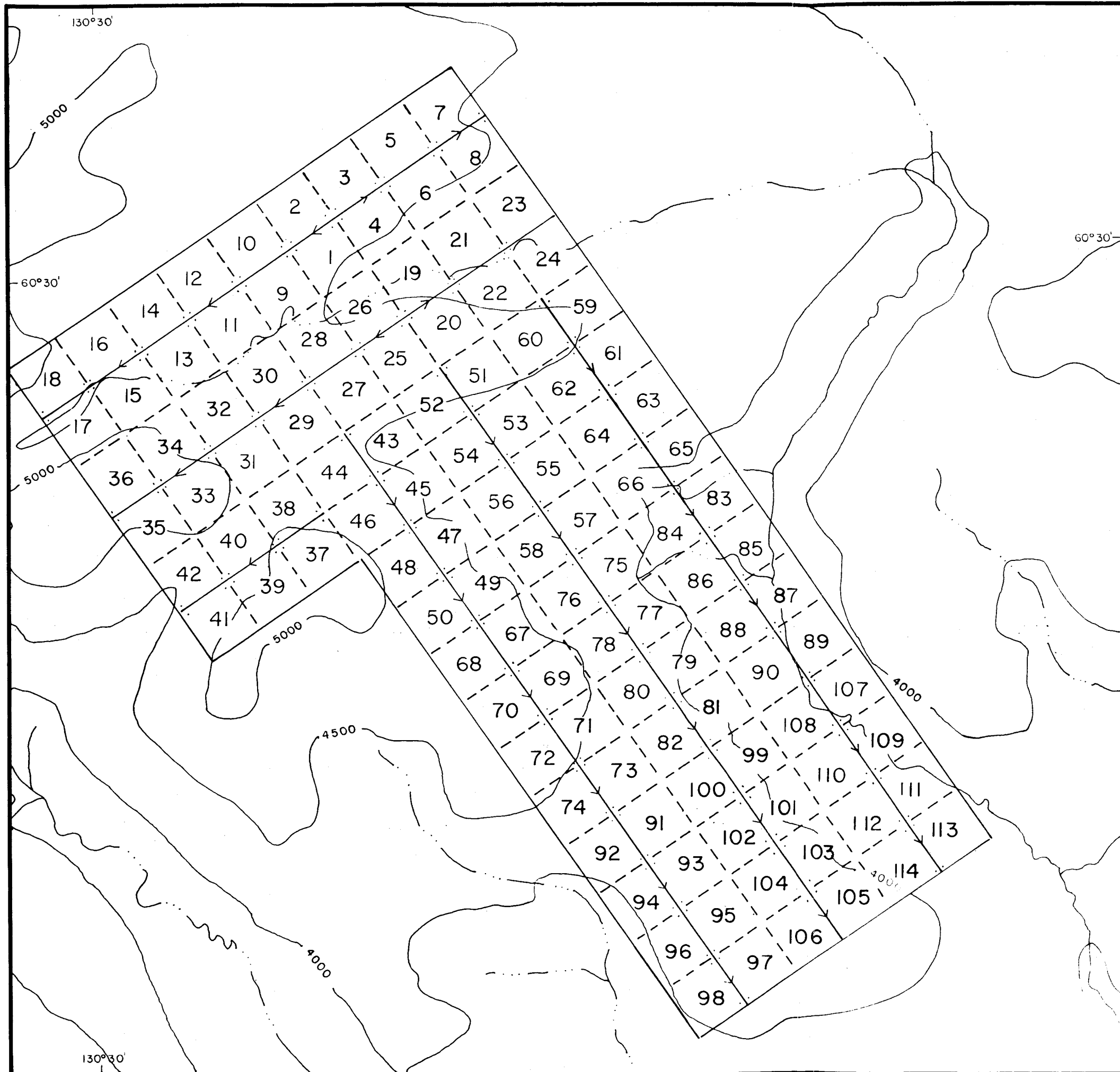
FIGURE I
PROPERTY LOCATION MAP



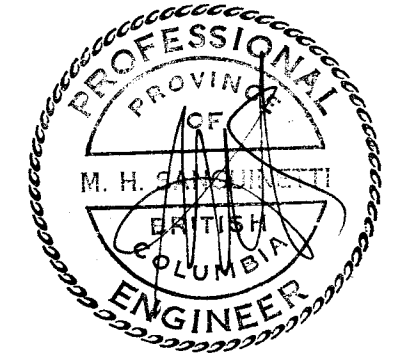
1 inch = 32 miles



135° 134° 133° 132° 131° 130° 129° 128° 127° 126°



	GRANT No.	EXPIRY DATE
LOGAN	1-6 YA45047-YA45052	DEC. 31, 1984
LOGAN	7-36 YA46254-YA46283	DEC. 31, 1984
LOGAN	37-114 YA54277-YA54354	MARCH 31, 1983



CLAIM MAP

LOGAN GROUP

WATSON LAKE MINING DISTRICT, YUKON TERRITORY
 N.T.S 105B-7,8,9
 SCALE: 1 inch = 1/2 mile
 CONTOUR INTERVAL = 500 feet

FIGURE 2

INTRODUCTION (cont'd)

Seventy-two soil samples collected in an area approximately 1.5 kilometres southwest of the known mineralization indicate linear trends of anomalous Zn, Pb and Sn geochemistry.

Vein-type Zn-Ag-Cu mineralization on the Logan property may have potential to support a small tonnage, high grade mining operation. There is also good potential for an extensive stockwork zone containing significant Sn and Ag mineralization.

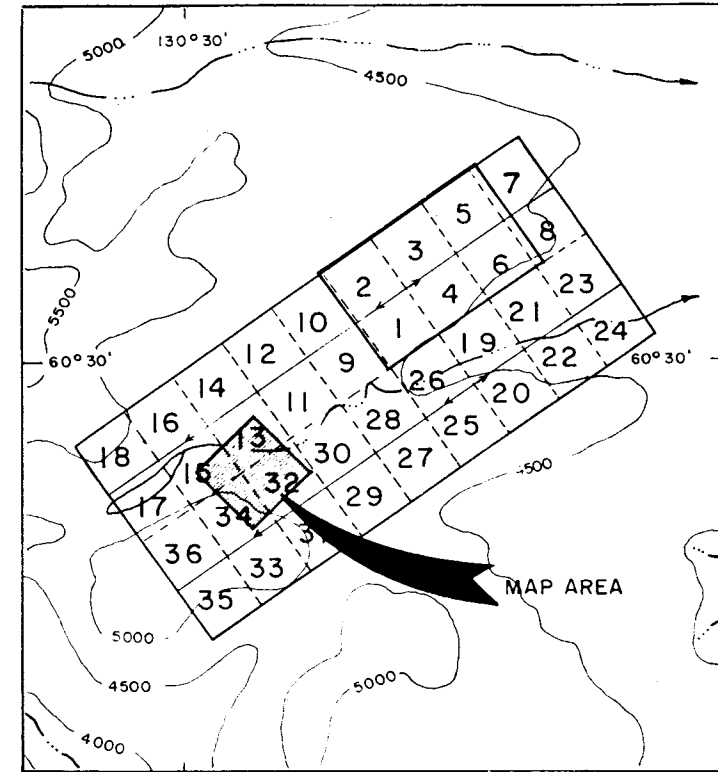
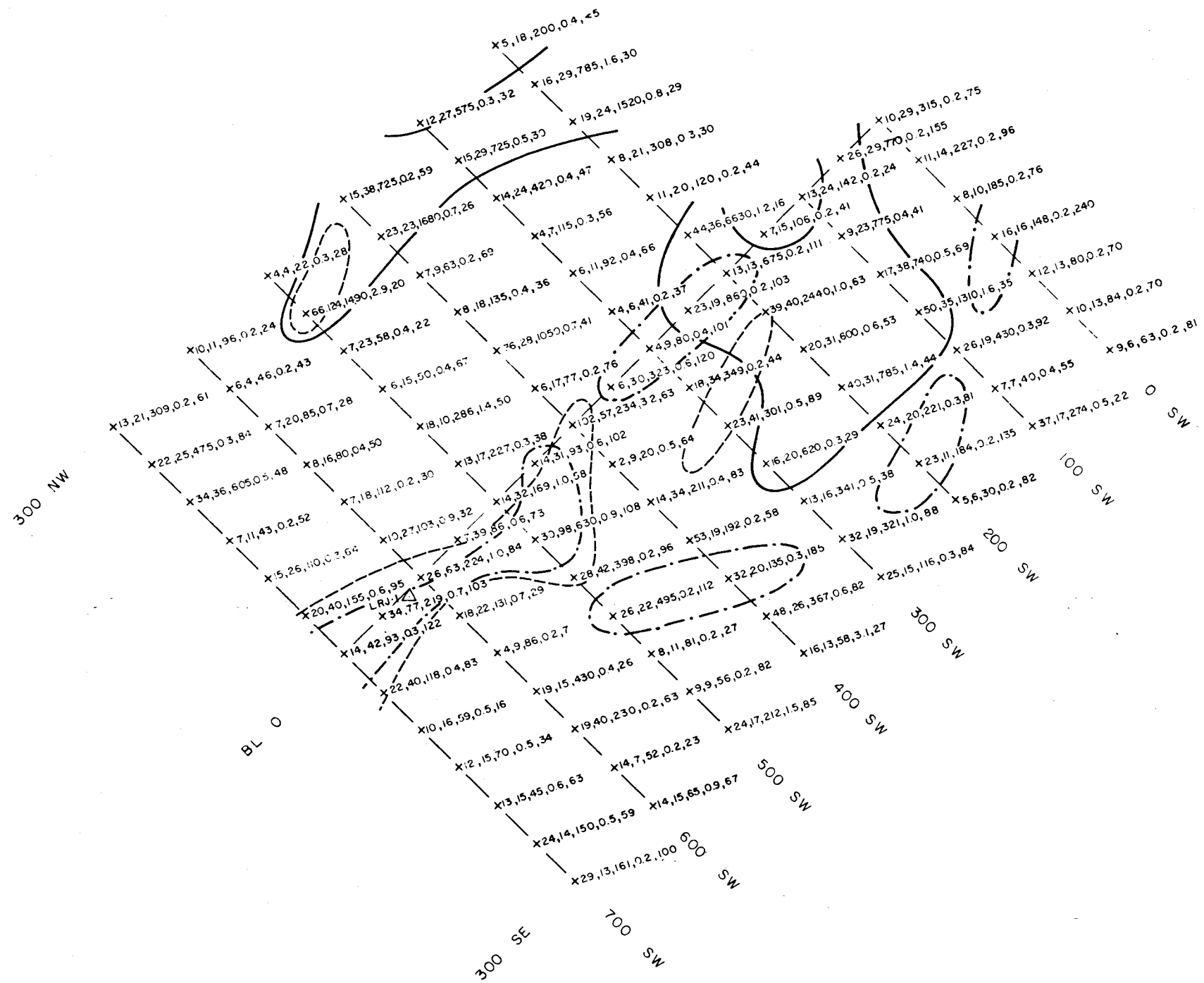
2.

GEOCHEMISTRY

A program of soil sampling was conducted on portions of Logan #13, #15, #32 and #34 claims during June, 1982 (Figure 3). Seventy-two samples were collected at 50 metre intervals on lines spaced 100 metres apart (3.6 line-kilometres). Grid lines, marked with plastic flagging, were measured from a baseline established in 1979.

Sample pits were dug by mattock to the "B" horizon, and soils placed in numbered kraft envelopes. Soils consist mainly of clayey gravel and sand. The samples were dried and sieved to -80 mesh size in base camp, and this fraction was shipped to Bondar-Clegg and Co. Ltd.'s laboratory in North Vancouver, B.C. for Cu, Pb, Zn, Ag and Sn analysis. The analytical method for Cu, Pb, Zn and Ag determination consisted of perchloric and nitric acid digestion followed by atomic absorption analysis. For Sn, analysis was by energy dispersive X-ray fluorescence.

There are insufficient samples to statistically determine an anomalous level for each of the elements. Anomalous values, therefore, were chosen on the basis of geochemical results from other parts of the property

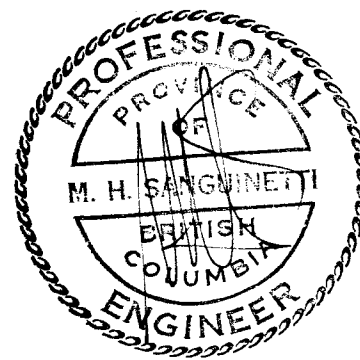


EXPLANATION

- ROCK SAMPLE LOCATION
- GRID LINE AND STATION
(element values given in parts per million)

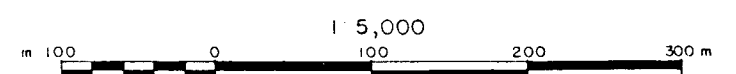
NOTE: ANOMALOUS VALUES ARE:

-----	COPPER	≥ 40	ppm
-----	LEAD	≥ 40	ppm
-----	ZINC	≥ 600	ppm
-----	SILVER	≥ 1.0	ppm
-----	TIN	≥ 100	ppm



REGIONAL RESOURCES LTD.
 LOGAN PROPERTY
SOIL GEOCHEMISTRY - 1982

WATSON LAKE MINING DISTRICT, Y.T. NTS 105 B/7,8,9



BY
 CORDILLERAN ENGINEERING

NOVEMBER 1982

FIGURE 3

GEOCHEMISTRY (cont'd)

and from previous geochemical experience in a similar geological environment.

These selected values are as follows:

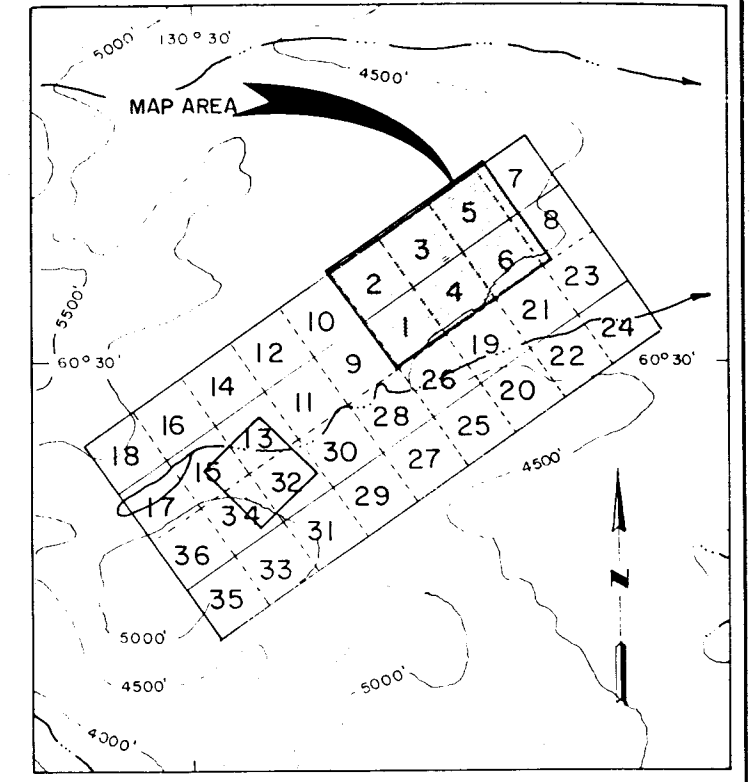
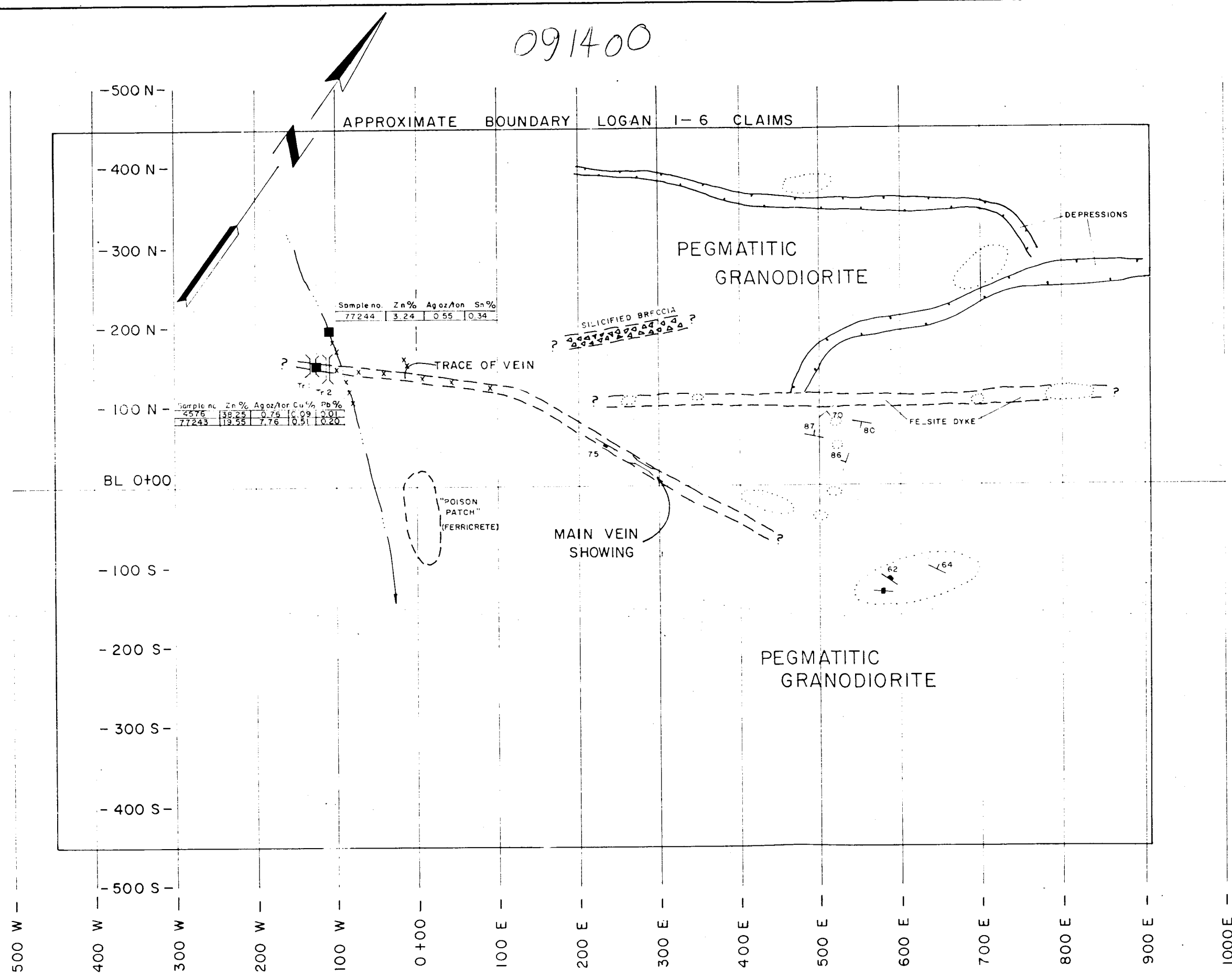
Copper	≥40 ppm
Lead	≥40 ppm
Zinc	≥600 ppm
Silver	≥1.0 ppm
Tin	≥100 ppm

Interpretation of results indicates a linear zone of anomalous Pb and coincident Sn (500m x 100m) along baseline 0 which merges with an area of anomalous Zn (200m x 200m) to the northeast. A second zone of anomalous Zn (300m x 50m) parallels this trend 200 metres to the northwest, and an arcuate trend of anomalous Sn is subparallel 200 metres to the southeast.

3. GEOLOGY AND TRENCHING

The Logan claims are situated on the contact between highly deformed metasediments [Lower Cambrian and earlier(?)] and a pegmatitic, Upper Cretaceous intrusive body. A shattered, mineralized felsite dyke and mineralized quartz vein system are associated with pronounced north-easterly and easterly trending lineaments in the intrusive, on the north side of the claims. Plagioclase and biotite are intensely altered to sericite adjacent to quartz veins. On the south part of the claims, gossanous quartz veins in metasediments are associated with areas of anomalous soil geochemistry (Verley, 1980).

Four man-days were spent during 1982 blasting and digging two trenches (TR-1, TR-2) in an area of extensive sphalerite-rich float on Logan #2 claim (Figure 4). The trenches measure (LxWxD) 6.1 x 1.5 x 1.4 metres (12.8m³) and 7.6 x 0.6 x 0.9 metres (4.1m³), and are about 20 metres apart. Both trenches were abandoned upon encountering the water table and before reaching solid bedrock. Trenched material consisted of sandy, bouldery till with abundant boulders of sphalerite-mineralized quartz vein. Grab

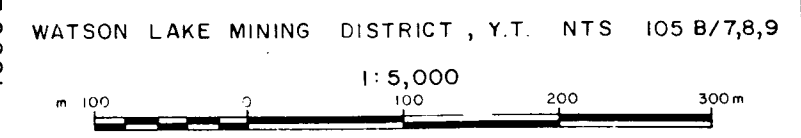


EXPLANATION

- AREA OF OUTCROP OR SUBCROP
- LITHOLOGICAL CONTACT (inferred)
- JOINT ATTITUDE
- VEIN ATTITUDE
- MINERALIZED FLOAT
- ROCK GRAB SAMPLE and ASSAY RESULTS
- TRENCH LOCATION
- FLAGGED GRID LINES



REGIONAL RESOURCES LTD.
LOGAN PROPERTY
GEOLOGY



BY
CORDILLERAN ENGINEERING
NOVEMBER 1982

FIGURE 4

GEOLOGY AND TRENCHING (cont'd)

samples of mineralized float assayed: Zn 38.25 and 19.55%, Ag 0.76 and 7.76 oz/ton, Cu 0.09 and 0.51%, Pb 0.01 and 0.20%, and minor Au, Sn and W.

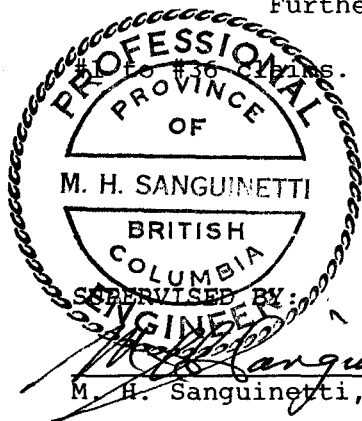
Float boulders of granodiorite containing mineralized quartz stockwork veins were located about 50 metres upslope from the trenches. A grab sample containing stockwork mineralization assayed: Zn 3.24%, Ag 0.55 oz/ton, Cu 0.03%, Pb 0.01%, Sn 0.34% and minor Au and W.

4. SUMMARY & CONCLUSIONS

Soil geochemistry on the west side of the Logan property indicates linear Zn, Pb and Sn anomalies which may result from vein-type mineralization similar to that located 1.5 kilometres northeast. Good potential exists for the discovery of two parallel mineralized structures exceeding 600 metres in length.

Trenching on the northeast side of the property in an area of known vein-hosted mineralization revealed abundant float boulders of massive sulphide which appear to be close to a bedrock source. Similar mineralized float occurs intermittently along a strike length of 500 metres to the east, indicating good potential for locating an extensive high grade vein deposit.

Further exploration work is strongly recommended on the Logan



Respectfully submitted

CORDILLERAN ENGINEERING

J. D. Rowe
J. D. Rowe, B.Sc., Geologist

APPENDIX "A"

STATUTORY DECLARATION

CANADA)
)
 TO WIT :)

In the matter of representation work on the
 LOGAN CLAIM GROUP
 on behalf of REGIONAL RESOURCES LTD.

I, Michael H. Sanguinetti, agent for Regional Resources Ltd.

of 1418 - 355 Burrard Street, Vancouver, B.C. V6C 2G8

do solemnly declare, - that geological investigations, geochemical sampling and trenching were conducted on the LOGAN #2,13,15, 32 and 34 mineral claims, Watson Lake Mining District, Yukon Territory on the following dates:

June 25-26 and September 11, 1982.

Expenditures for this work include:

Assays and analyses	.....	\$ 772.80
Food, camp fuel, field supplies	.....	250.00
Sample shipping	.....	24.00
Helicopter fuel	.....	163.80
Helicopter (Northern Mountain Contract)		1,053.00
Drafting, printing, report preparation..		365.70
Salaries and benefits	.....	953.33
Management fees	.....	923.32
Geological consulting	.....	<u>350.00</u>
	TOTAL	<u>\$4,855.95</u>

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of The Canada Evidence Act.

Declared before me at Vancouver
 in the Province of B.C. this
26 day of November 1982)




A Commissioner for Oaths for Yukon
 Territory OR Notary Public for

APPENDIX "B"

WRITERS' CERTIFICATES

CORDILLERAN ENGINEERING

1418 MARINE BUILDING, 355 BURRARD STREET, VANCOUVER, BRITISH COLUMBIA V6C 2G8 TEL: (604) 681-8381

WRITER'S CERTIFICATE

I, Jeffrey D. Rowe of Vancouver, British Columbia hereby certify that:

1. I am a geologist residing at 121 East 27th Street, North Vancouver, B.C., and employed by Cordilleran Engineering of 1418-355 Burrard Street, Vancouver, B.C. V6C 2G8
2. I received a Bachelor of Science degree from the Faculty of Geology at the University of British Columbia, Vancouver, B.C. (1975), and have practiced my profession since that time.
3. I am the author of this report which is based on results of field work conducted during June 25 to September 11, 1982 on behalf of Regional Resources Ltd.

CORDILLERAN ENGINEERING

J. D. Rowe, B.Sc.
Geologist

November, 1982
Vancouver, B.C.

CORDILLERAN ENGINEERING

1418 MARINE BUILDING. 355 BURRARD STREET. VANCOUVER, BRITISH COLUMBIA V6C 2G8 TEL: (604) 681-8381

SUPERVISOR'S CERTIFICATE

I, Michael H. Sanguinetti of Vancouver, British Columbia hereby certify that:

1. I am a geologist residing at 2208 West 35th Avenue, Vancouver, B.C., and employed by Cordilleran Engineering of 1418-355 Burrard Street, Vancouver, B.C. V6C 2G8.
2. I am a graduate of the University of British Columbia, B.Sc., 1965, and have practiced my profession since that time.
3. I am a member of the Association of Professional Engineers of the Province of British Columbia.
4. I supervised the writing of this report which is based on results of a field program conducted by Cordilleran Engineering during June 25 to September 11, 1982.
5. Field work for the 1982 program was done under by supervision.

CORDILLERAN ENGINEERING



A handwritten signature in black ink, appearing to read "Michael H. Sanguinetti".

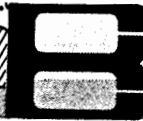
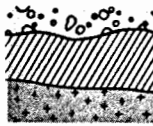
Michael H. Sanguinetti, B.Sc., P.Eng.
Geologist

November, 1982
Vancouver, B.C.

APPENDIX "C"

ASSAY CERTIFICATES

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**

COPY

REPORT: 422-3429

4

FROM: CORDILLERAN ENGINEERING LTD.
DATE: 30-SEP-82 PROJECT: LOGAN

SUBMITTED BY: B YOUNGMAN

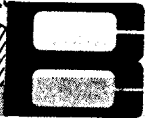
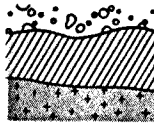
ELEMENT	LOWER DETECTION LIMIT	EXTRACTION	METHOD	SIZE FRACTION	SAMPLE TYPE	SAMPLE PREPARATIONS
Au	.002 OPT			-100	ROCKS	CRUSH, PULVERIZE -100
As	.02 OPT					
Cu	.01 PCT			-100		
Pb	.01 PCT					
Zn	.01 PCT					
Sn	.01 PCT			-100		
W	.01 PCT					

REPORT COPIES TO: CORDILLERAN ENGINEERING
MR. M. SANGUINETTI

INVOICE TO: CORDILLERAN ENGINEERING

REMARKS: SHIP# L-1
SSF# 0036

RJR
Registered Assayer, Province of British Columbia



REPORT: 422-3429 PROJECT: LOGAN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	As OPT	Cu PCT	Pb PCT	Zn PCT	Sn PCT	W PCT	NOTES
77243		0.002	7.76	0.51	0.20	19.55	<0.01	<0.01	- High Grade Sp - Stockwork with Sp + AsPy
77244		0.002	0.55	0.03	0.01	3.24	0.34	<0.01	

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



Certificate
of Analysis

REPORT: 522-1482

FROM: CORDILLERAN ENGINEERING LTD.

SUBMITTED BY: E A BALON

DATE: 07-JUL-82 PROJECT: LOGAN

ELEMENT	LOWER DETECTION LIMIT	EXTRACTION	METHOD	SIZE FRACTION	SAMPLE TYPE	SAMPLE PREPARATIONS
Au	.002 OPT			-100	ROCKS	CRUSH, PULVERIZE -100
Ag	.02 OPT					
Cu	.01 PCT			-100		
Pb	.01 PCT					
Zn	.01 PCT					
Sn	.01 PCT			-100		

REPORT COPIES TO: CORDILLERAN ENGINEERING
MR. E. A. BALON

INVOICE TO: CORDILLERAN ENGINEERING

REMARKS: LOGAN PROPERTY SHIP#1

DETECTION LIMITS FOR GOLD
20 gram sample: 5 PPB.
10 gram sample: 10 PPB.
1 gram sample: 100 PPB.

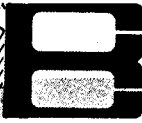
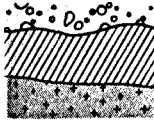
Sample Wt. 20 g. unless otherwise stated.

NOTE:
Check concentration/sample weight ratio
for effective detection level.

1418 MARINE BUILDING, 355 BURRARD STREET, VANCOUVER, BRITISH COLUMBIA V6C 2G8 TEL: (604) 681-8381

CORDILLERAN ENGINEERING

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: 522-1482 PROJECT **LOGAN**

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	As OPT	Cu PCT	Pb PCT	Zn PCT	Sn PCT	NOTES
R 4576		0.002	0.76	0.09	0.01	38.25	<.01	

REGISTERED ASSAYER,
PROVINCE OF BRITISH COLUMBIA

APPENDIX "D"

ANALYTICAL CERTIFICATES

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



Geochemical
Lab Report

PORT: 122-1482

FROM: CORDILLERAN ENGINEERING LTD.
DATE: 08-NOV-82 PROJECT: LOGAN

SUBMITTED BY: E BALON

ELEMENT	LOWER DETECTION LIMIT	EXTRACTION	METHOD	SIZE FRACTION	SAMPLE TYPE	SAMPLE PREPARATIONS
Cu	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption	-80	OTHER	CRUSH, PULVERIZE -100
Zn	2 PPM	HNO3-HCL HOT EXTR	Atomic Absorption	-80		RETENTION OF REJECTS
Pb	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption	-80		AS RECEIVED, NO SP
As	.1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption	-80		
Co	5 PPM		X-RAY Fluorescence	-80		

REPORT COPIES TO: CORDILLERAN ENGINEERING
MR. E. A. BALON

INVOICE TO: CORDILLERAN ENGINEERING

REMARKS: SHIPMENT #1

***** CORRECTED REPORT *****



PORT: 122-1482 PROJECT: LOGAN

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MPLE NUMBER	ELEMENT UNITS	Cu PPH	Pb PPH	Zn PPH	As PPH	Sn PPH	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Cu PPH	Pb PPH	Zn PPH	As PPH	Sn PPH	NOTES
LRJ-1		310	111	1830	5.8	40		P 300NW LR		15	38	725	0.2	59	
100SW	100SE	17	38	740	0.5	69		P 050SE LR		2	9	20	0.5	64	
P 100SW	150SE	50	35	1310	1.6	35		P 100SE LR		14	34	211	0.4	83	
P 300SW	050NW 0SW	4	6	41	0.2	37		P 150SE LR		53	19	192	0.2	58	
								P 200SE LR		32	20	135	0.3	185	
P 050SE LR		9	23	775	0.4	41		P 250SE LR		48	26	367	0.6	82	
200SE LR		26	19	430	0.3	92		P 300SE LR		16	13	58	3.1	27	
250SE LR		7	7	40	0.4	55		500SW							
P 300SE LR		37	17	274	0.5	22		P 050NW LR		13	17	227	0.3	38	
0SW								P 100NW LR		18	10	286	1.4	50	
P 050NW LR		42	36	6630	1.2	16		P 150NW LR		6	15	50	0.4	67	
P 100NW LR		11	20	120	0.2	44		P 200NW LR		7	23	58	0.4	22	
150NW LR		8	21	308	0.3	30		P 250NW LR		66	124	1490	2.9	20	
200NW LR		19	24	1520	0.8	29		P 300NW LR		4	4	22	0.3	28	
P 250NW LR		16	29	785	1.6	30		600SW							
300NW LR		5	18	200	0.4	<5		P 050NW LR		10	27	103	0.9	32	
P 050SE LR		39	40	2440	1.0	63		P 100NW LR		7	18	112	0.2	30	
100SE LR		20	31	600	0.6	53		P 150NW LR		8	16	80	0.4	50	
150SE LR		40	31	785	1.4	44		P 200NW LR		7	20	85	0.7	28	
P 200SE LR		24	20	221	0.3	81		P 250NW LR		6	4	46	0.2	43	
250SE LR		23	11	184	0.2	135		P 300NW LR		10	11	96	0.2	24	
300SE LR		5	6	30	0.2	82		P 050SE LR		18	22	131	0.7	29	
300SW								P 100SE LR		4	9	86	0.2	7	
100NW LR		6	11	92	0.4	66		P 150SE LR		19	15	430	0.4	26	
150NW LR		4	7	115	0.3	56		P 200SE LR		19	40	230	0.2	63	
200NW LR		14	24	420	0.4	47		P 250SE LR		14	7	52	0.2	23	
250NW LR		15	29	725	0.5	30		P 300SE LR		14	15	65	0.9	67	
P 300NW LR		12	27	575	0.3	32		700SW							
P 050SE LR		18	34	349	0.2	44		P 050NW LR		20	40	155	0.6	95	
100SE LR		23	41	301	0.5	89		P 100NW LR		15	26	110	0.3	64	
P 150SE LR		16	20	620	0.3	29		P 150NW LR		7	11	43	0.2	55	
200SE LR		13	16	341	0.5	38		P 200NW LR		34	36	605	0.5	48	
250SE LR		32	19	321	1.0	88		P 250NW LR		22	25	475	0.3	84	
P 300SE LR		25	15	116	0.3	84		P 300NW LR		13	21	309	0.2	61	
0SW								P 050SE LR		22	40	118	0.4	83	
050NW LR		6	17	77	0.2	76		P 100SE LR		10	16	59	0.5	16	
P 100NW LR		36	28	1050	0.7	41		P 150SE LR		12	15	70	0.5	34	
150NW LR		8	18	135	0.4	36		P 200SE LR		13	15	45	0.6	63	
200NW LR		7	9	63	0.2	69		P 250SE LR		24	14	150	0.5	59	
P 250NW LR		23	23	1680	0.7	26		P 300SE LR		29	13	161	0.2	100	

APPENDIX "E"

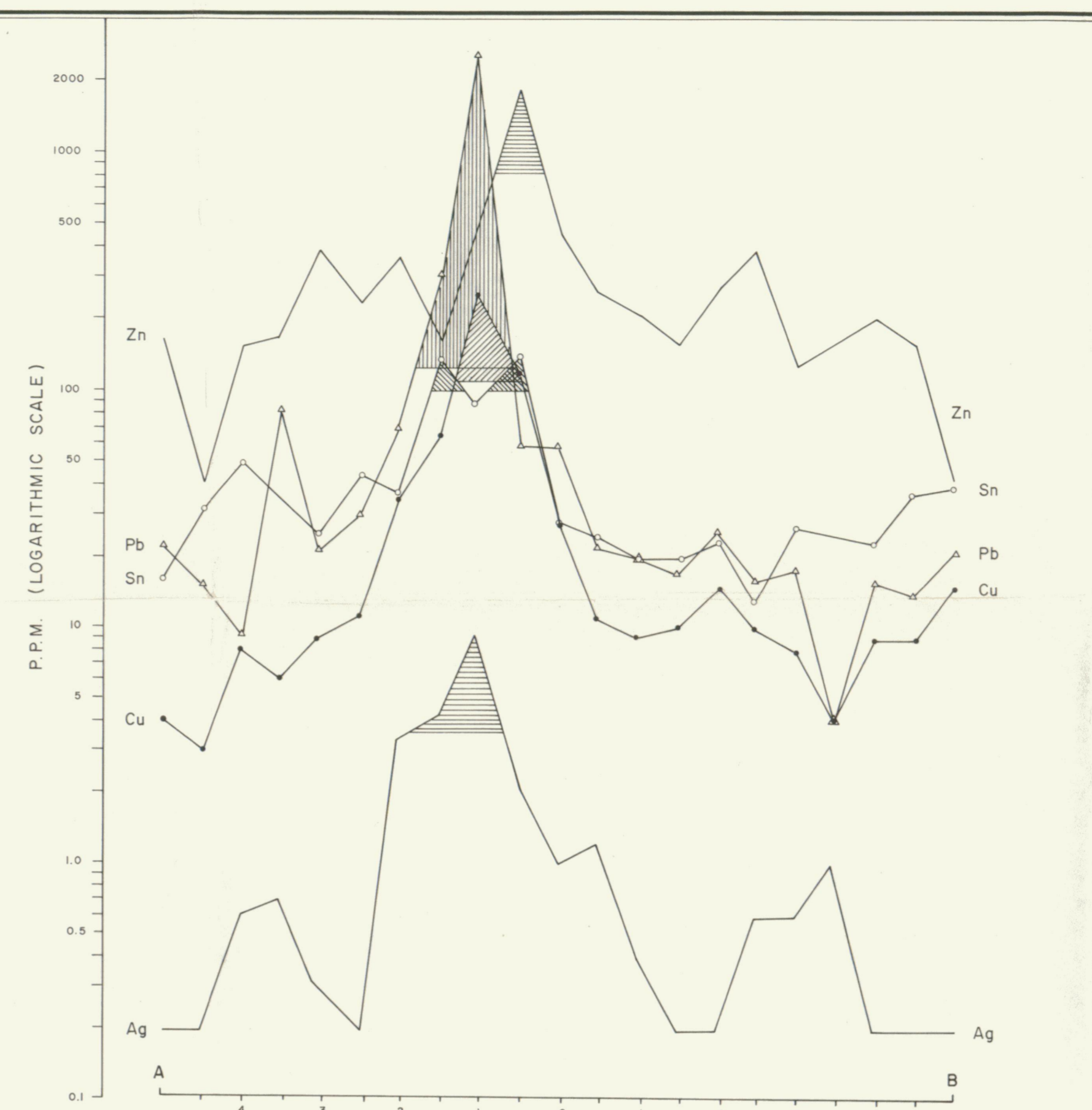
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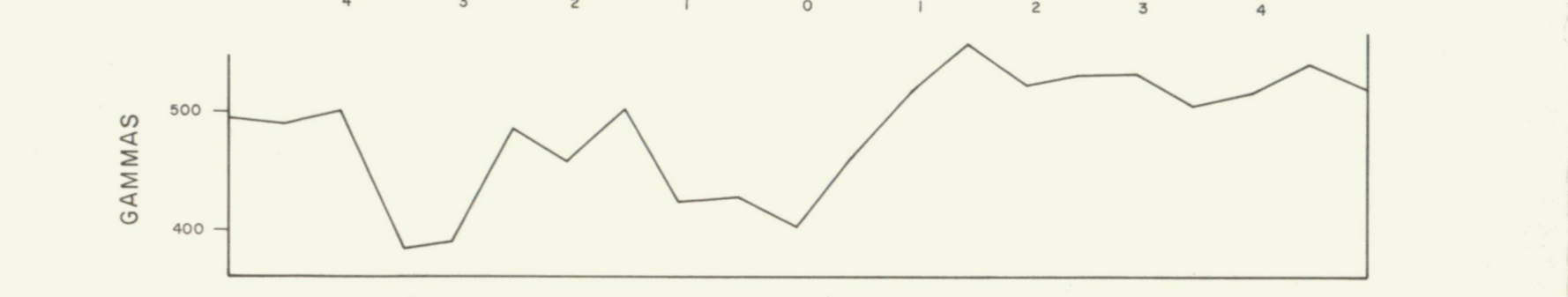
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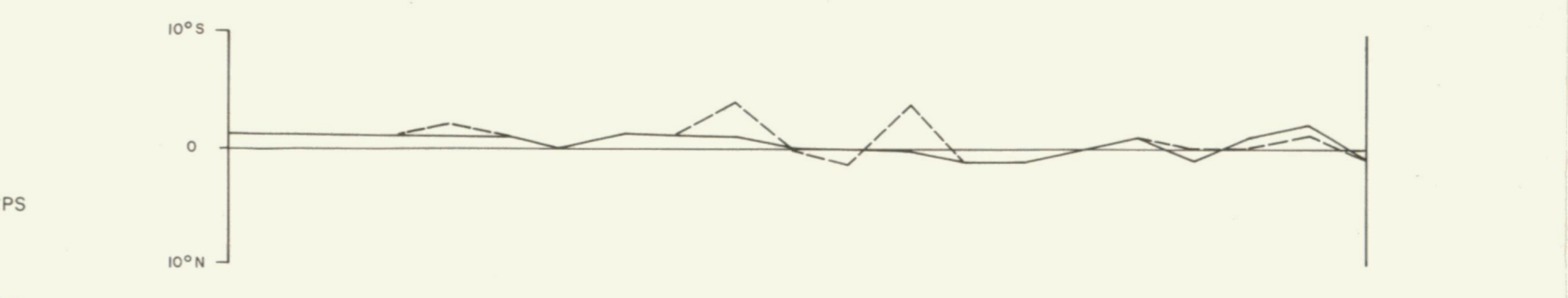
GEOCHEMICAL PROFILES
SHADED AREAS ANOMALOUS



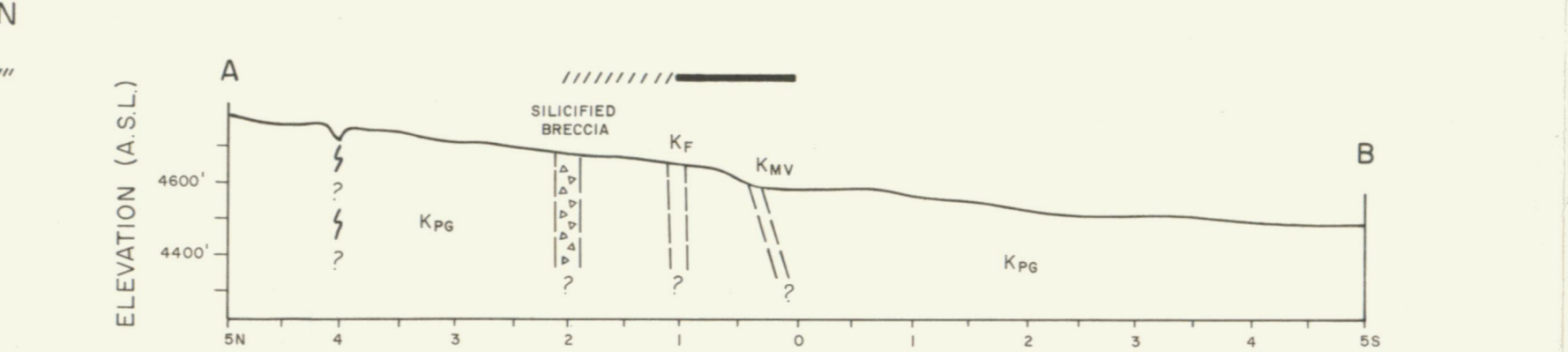
MAGNETIC PROFILE



ELECTROMAGNETIC PROFILE
2400 CPS VERTICAL LOOP 600 CPS



INDUCED POLARIZATION ANOMALIES
DEFINITE PROBABLE



GEOLOGICAL CROSS - SECTION

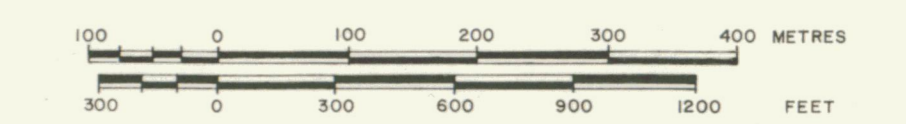
LEGEND

- KMV** MAIN VEIN: AN EAST - WEST TRENDING SPHALERITE - CHALCOPYRITE - PYRITE - ARSENOPYRITE - BEARING QUARTZ VEIN OCCURS IN THE CENTRAL PART OF THE #1-6 CLAIMS. AN EXPOSURE OF THE VEIN 1.5 METRES IN WIDTH, STEEPLY DIPPING TO THE NORTH, OCCURS IN A LINEAR TOPOGRAPHIC DEPRESSION UP TO 20 METRES WIDE. CHIP SAMPLES ACROSS THE VEIN ASSAYED 5.29% Zn, 0.58% Cu, 1.79 OZ/TON Ag, TRACE Pb, W, Sn OVER 1.5 m.
- KFG** FELSITE: PALE BROWNISH GREY, FINE-GRAINED DYKE. SUBHEDRAL QUARTZ PHENOCRYSTS (2-3mm.) ARE RARE, EXPOSURES ARE SHATTERED, SURFACES BEING COATED WITH LIMONITE. QUARTZ VEINLETS ARE COMMON AND CONTAIN ARSENOPYRITE AND SPHALERITE. DYKE IS ESTIMATED TO BE UP TO 12 METRES WIDE.
- KPG** PEGMATITIC GRANODIORITE: MEDIUM-GRAINED BIOTITE - MUSCOVITE GRANODIORITE. COARSE PEGMATITIC LENSES (15cm TO 60cm IN LENGTH), WITH GRAPHIC TEXTURES, ARE COMMON THROUGHOUT THIS INTRUSIVE. PLAGIOCLASE AND BIOTITE ARE INTENSLY ALTERED TO SERICITE NEAR QUARTZ VEINS.

- LITHOLOGIC CONTACT (INFERRED)
- ATTITUDE OF JOINTS
- ATTITUDE OF QUARTZ VEINS
- MINERALIZATION: FLOAT, IN PLACE
- GOSSANOUS QUARTZ VEIN FLOAT
VR-87, 19526 ROCK CHIP, ASSAY NUMBERS
- TOPOGRAPHIC DEPRESSION
- APPROXIMATE OUTCROP DISTRIBUTION
- GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL PROFILE LINE



LOGAN JOINT VENTURE
GEOLOGY
LOGAN #1-6 CLAIMS
WOLF LAKE MAP SHEET, N.T.S. 105B-8,9
WATSON LAKE MINING DISTRICT, YUKON TERRITORY



BY
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