



GEOLOGICAL & GEOCHEMICAL REPORT

On the SPENCER 1-60 Mineral Claims

Watson Lake Mining District, Y.T.

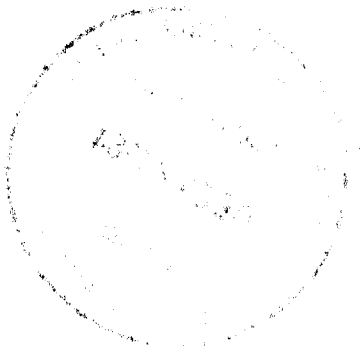
Latitude 60°10'N; Longitude 130°30'W; NTS: 105/B-1,2

By: M.A.Stammers, B.A., Geologist

NOVEMBER, 1984

Y.T. SPENCER 1984 ASSESSMENT REPORT

091589



This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 20,339.00.

for *D. A. Edmond*
Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

SPENCER 1-60 MINERAL CLAIMS

WATSON LAKE MINING DISTRICT
YUKON TERRITORY

Latitude 60°10'N; Longitude 130°30'W
NTS: 105/B-1,-2

FOR

REGIONAL RESOURCES LTD.

1980 - 1055 West Hastings Street
Vancouver, B.C. V6E 2E9

BY

M. A. Stammers, B.A.
Geologist

CORDILLERAN ENGINEERING
1980-1055 West Hastings Street
Vancouver, B.C. V6E 2E9

WORK PERFORMED BETWEEN: June 1, 1984 to September 24, 1984
DATE OF REPORT: November, 1984

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S U M M A R Y A N D C O N C L U S I O N S

CHAPTER 1.0

SUMMARY AND CONCLUSIONS

The Spencer property consists of 60 contiguous mineral claims in the Watson Lake Mining District (NTS: 105/B-1, -2) and is located 100 km west of Watson Lake, Yukon Territory. The Spencer 1-60 mineral claims were staked in September, 1983 to cover geochemical and geological anomalies. Claim acquisition and subsequent work has been conducted by Cordilleran Engineering for Regional Resources Ltd.

The Spencer claim area includes mixed forest and alpine terrain with only limited exposure of rock units. The property is situated 2.5 km from an existing gravel road off the Alaska Highway; present access is by helicopter.

Work conducted on the property in 1983, prior to staking, consisted of stream sediment sampling and limited hammer prospecting. Work performed during the 1984 field season included grid preparation, soil geochemical surveys and preliminary geological mapping.

Silver-lead-zinc mineralization on the Spencer property is hosted within

a Lower Cambrian limestone and phyllite rock unit near intrusive rocks of the Cassiar Batholith. To date, this replacement-type mineralization has been discovered at one location on the property. Assays of grab samples from a 3.0 to 8.0 cm thick lens have included values of 21.72 oz/ton silver, 7.98% lead and 6.82% zinc.

A total of 484 soil samples were collected in the north central claim area every 50 metres on lines 200 metres apart and analysed for lead, zinc, silver and manganese. Soil geochemistry has failed to outline any significant anomalies. Three small anomalous areas with lead-zinc-silver-manganese values to 3000 ppm Pb, 4465 ppm Zn, >50.0 ppm Ag and 14000 ppm Mn have been outlined.

RECOMMENDATIONS

CHAPTER 2.0

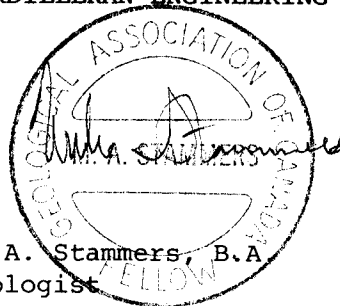
RECOMMENDATIONS

Follow-up hammer prospecting and geological evaluation is recommended for the geochemical soil anomalies centered at 15+00E, 36+00N; 15+00E, 54+00N and 30+00E, 36+00N on the Spencer property.

Additional work may be recommended only if significant silver-lead-zinc mineralization is discovered.

Respectfully submitted

CORDILLERAN ENGINEERING



M. A. Stammers, B.A.
Geologist

I N T R O D U C T I O N

CHAPTER 3.0

INTRODUCTION

This report describes a program of geological and geochemical exploration conducted on the Spencer 1-60 mineral claims during the period June 1, 1984 to September 24, 1984

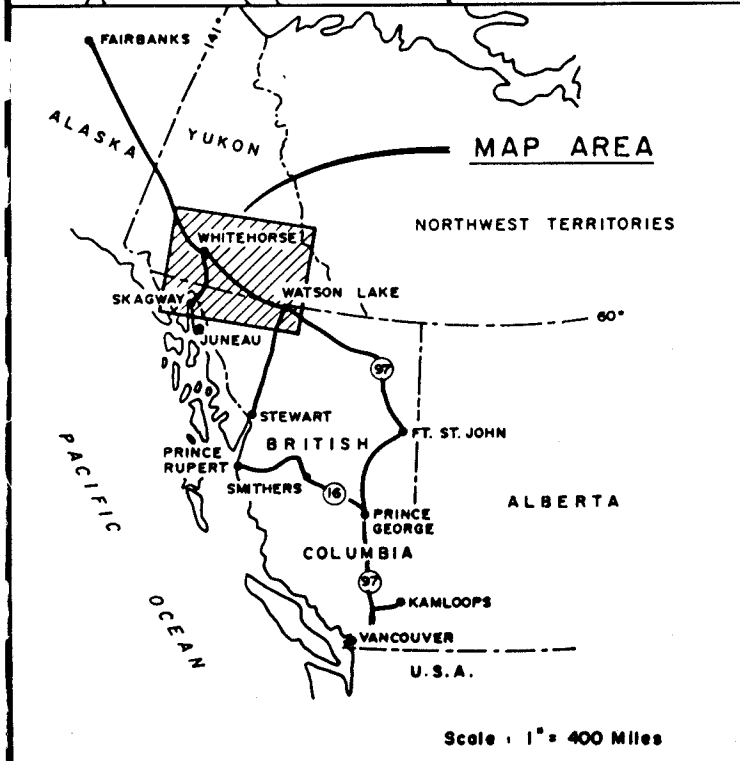
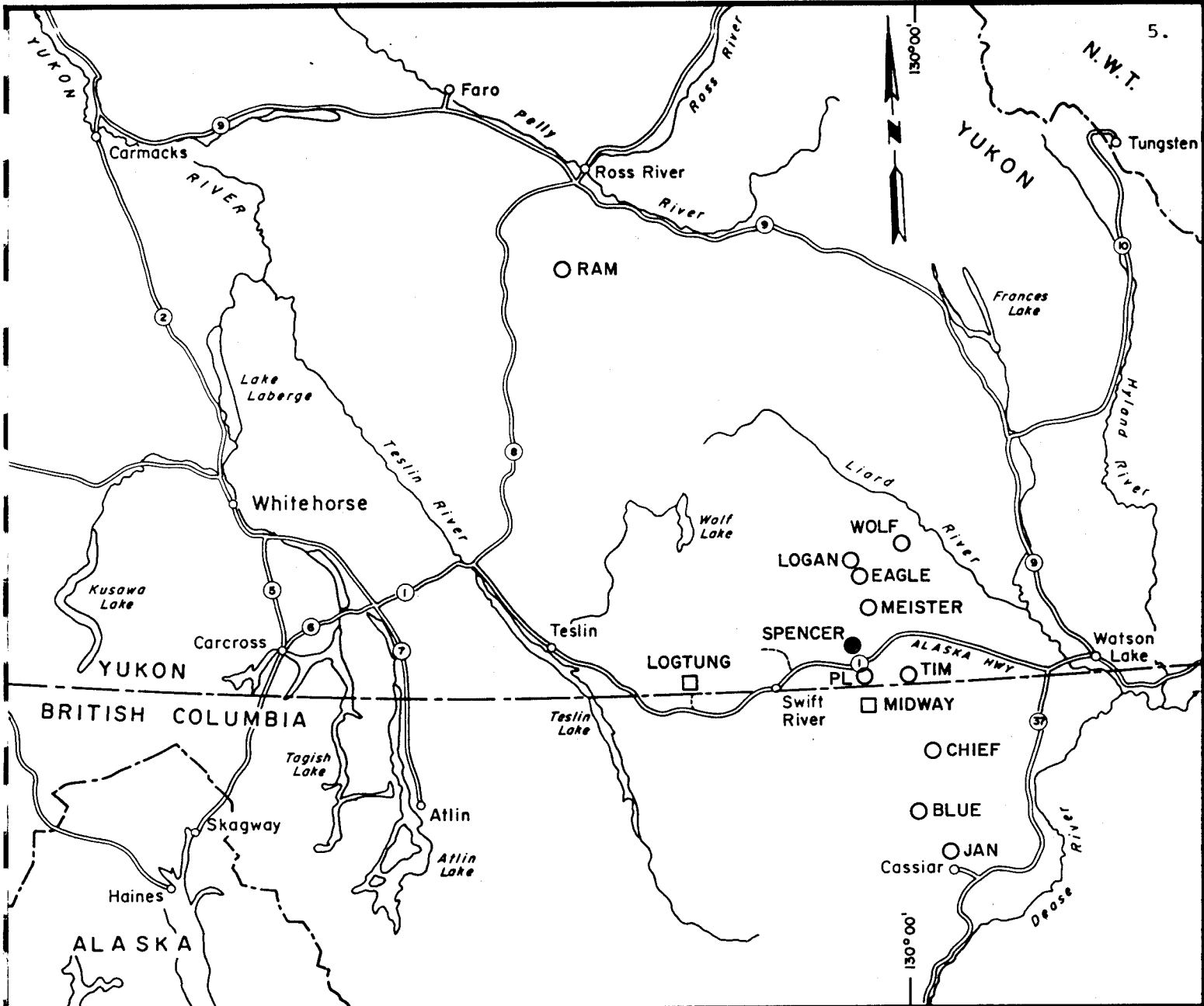
3.1 LOCATION AND ACCESS

The Spencer property is located 100 km west of Watson Lake, Yukon Territory at latitude 60°10'N and longitude 130°30'W (Figure 1). The claims lie 7 km north-west of Milepost 701 (Kilometre 1128) on the Alaska Highway. From here, a secondary road branches to within 2.5 km of the southeast claim boundary. In addition, a bulldozer trail extends across the north part of the property, originating from a secondary road 2.0 km to the northeast. Access in 1984 was by helicopter from Regional Resource's Midway camp located 29 kilometres to the south.

3.2 PHYSIOGRAPHY AND CLIMATE

The claim group covers alpine, subalpine and forested terrain of moderate relief. Elevations range from 1100 to 1600 metres above sea level. Bedrock exposure is extensive on ridge tops and limited in forested areas. Additional geological information is provided by talus and felsensmeer rubble on slopes and ridge crests.

Climate in the Spencer claims area is characterized by short, warm summers and long, cold winters. Precipitation is light to moderate throughout the year.



REGIONAL RESOURCES LTD.

PROPERTY LOCATION MAP

Scale in miles

BY
CORDILLERAN ENGINEERING
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

NOVEMBER 1984

FIGURE 1

3.3 EXPLORATION HISTORY

The Spencer 1-60 claims were staked in September, 1983 by Cordilleran Engineering on behalf of Regional Resources Ltd. to cover geochemical and geological targets favourable for lead-zinc-silver mineralization.

The area of the Spencer property was previously staked four times between 1958 and 1978. Records of work for these claims are not available although bulldozer trenching has been conducted in the northern part of the area. The trenches are sloughed leaving few exposures of phyllite and limestone with localized black manganese oxide staining. Stream sediment sampling and limited prospecting were conducted on the Spencer group during 1983 by Cordilleran Engineering.

3.4 1984 EXPLORATION PROGRAM

The 1984 exploration program included 5.6 km of linecutting, grid soil sampling (486 samples) and geological mapping at 1:10,000 scale.

3.5 CLAIMS

The Spencer 1-60 claims are owned and operated by Regional Resources Ltd. Cordilleran Engineering of Vancouver, B.C. performed the work on the property on behalf of Regional.

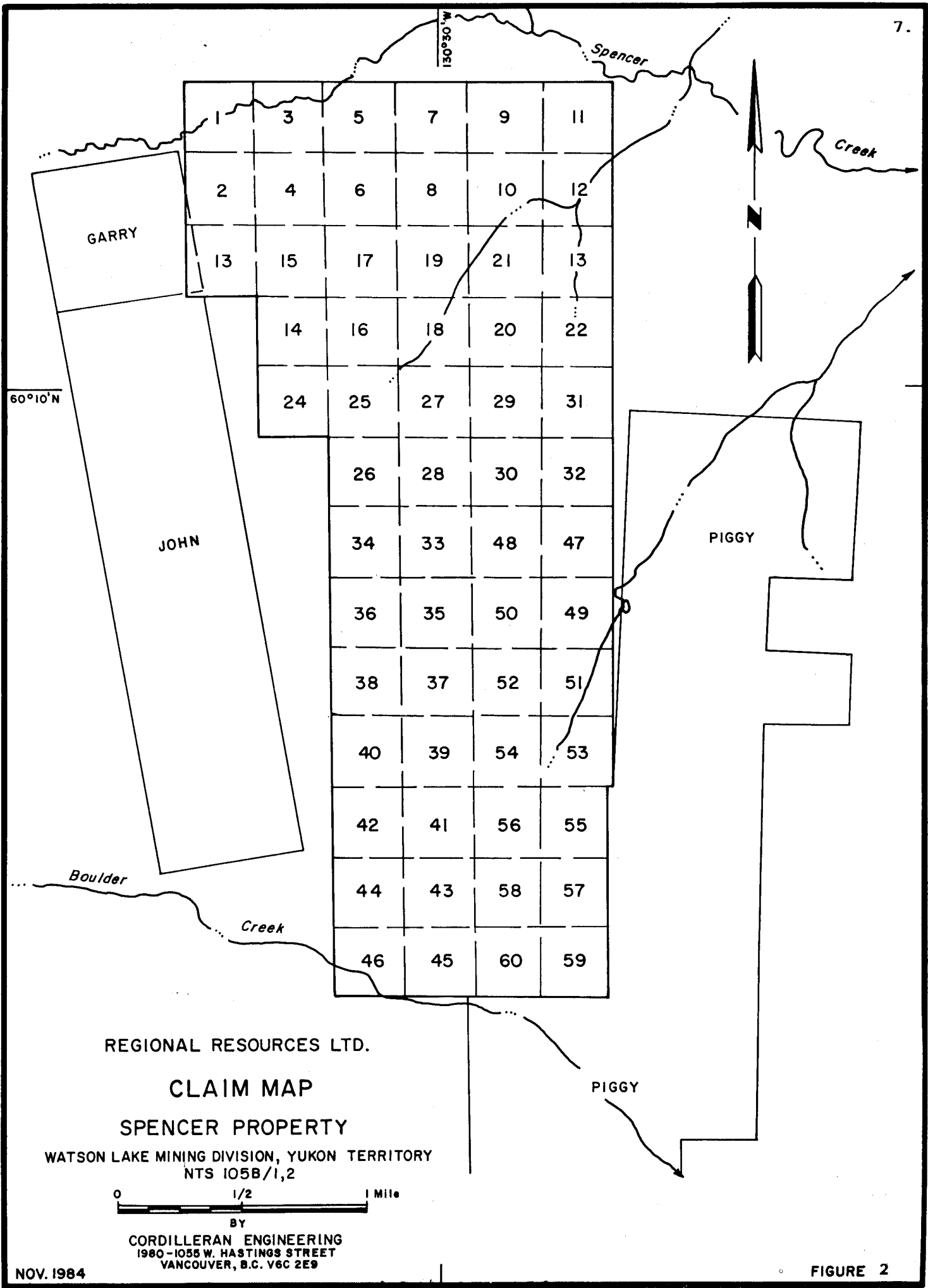
Table 1

LIST OF CLAIMS

<u>Claim(s)</u>	<u>Record Number(s)</u>	<u>Expiry Date(s)</u>
Spencer 1-60 (incl)	YA70632-YA70691 (incl)	October 5, 1984-1987*

*Pending receipt of Certificates of Work (1984 Assessment).

Figure 2 shows the location of the Spencer 1-60 claims.



GARRY

JOHN

PIGGY

REGIONAL RESOURCES LTD.

CLAIM MAP

SPENCER PROPERTY

WATSON LAKE MINING DIVISION, YUKON TERRITORY
NTS 105B/1,2

0 1/2 1 Mile

BY
CORDILLERAN ENGINEERING
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6C 2E9

NOV. 1984

FIGURE 2

G E O L O G Y

CHAPTER 4.0

GEOLOGY

4.1 REGIONAL GEOLOGY

The regional geology is based on mapping by Poole, 1951-1955, and by Green, 1959, of the Geological Survey of Canada (Map 10-1960).

The Spencer property is situated in the northern Cassiar Mountains on the divide between Spencer and Boulder Creeks. The claims are located just east of the contact between a folded and partially metamorphosed sequence of Late Precambrian to Early Cambrian sedimentary rocks and the Cretaceous quartz monzonite to granodiorite of the Cassiar Batholith.

Local lithological units described by the Geological Survey include Lower Cambrian limestone, marble and skarn; Lower Cambrian and Earlier biotite schist and quartzite; and Cretaceous granodiorite to quartz monzonite.

4.2 PROPERTY GEOLOGY

The geology of the Spencer property is shown on Plate 1. Exposure is best along ridge crests and very poor in forested areas.

The property is underlain by a folded and faulted sequence of the Lower Cambrian sedimentary rocks and their metamorphosed equivalents, members of the Atan Group, in contact with intrusive rocks of the Cassiar Batholith.

The Atan Group on the Spencer property has been divided into two principle lithological map units.

Unit 1 is comprised of a pale cream-grey, thick bedded quartzite with minor phyllite partings. Outcroppings of Unit 1 quartzite are restricted to a creek cut in the northern claims area.

Unit 2 consists of limestone, phyllite, minor quartz-biotite schist and rare skarn. This unit is characteristic of the Atan Group in the region and is the prominent map unit on the property. Where possible, this unit has been subdivided into three component members; Units 2a, 2b and 2c.

- Unit 2a is comprised of light buff-grey weathering, coarsely

recrystallized, massive limestone. Pyroxene skarn occurs rarely near the intrusive contact.

- Unit 2b consists of medium bedded, buff weathering limestone with phyllite partings and interbeds. This unit hosts silver-lead-zinc mineralization on the Spencer property.

- Unit 2c is comprised of a variably calcareous and carbonaceous, medium-grey-weathering phyllite. Quartz biotite schist occurs locally and hornfels is apparent in some areas near the intrusive contact.

Unit 3 includes intrusive rocks of the Cassiar Batholith and is comprised of a medium grained biotite granodiorite to biotite quartz monzonite. Intrusive sills and dykes locally appear in the Atan Group sediments.

4.3 STRUCTURAL GEOLOGY

Several north to northeast trending fault structures cross cut the Spencer property. The structures are represented on surface by shallow linear features, minor gouge zones, slickensided outcrop surfaces and locally contorted bedding.

Folding on the Spencer claims is characterized by small and meso-size scale isoclinal folds. Broad scale folding cannot be clearly defined, but preliminary data points to a large, south plunging fold in the east central claims area with synform-antiform fold pairing on the eastern fold limb.

MINERALIZATION

CHAPTER 5.0

MINERALIZATION

Silver-lead-zinc bearing mineralization located to date on the Spencer property consists of a 3.0 to 8.0 cm thick replacement zone of galena, sphalerite, geothite and manganosiderite. A grab sample from this zone taken this year assayed 6.20 oz/ton silver and 10.40% zinc. Previously reported results include values of 21.72 oz/ton silver, 7.98% lead and 6.82% zinc.

Mineralization appears to have replaced crystalline limestone within a sequence of interbedded Atan Group limestones and phyllites approximately 450 metres east of a Cassiar Batholith contact.

SOIL GEOCHEMISTRY

CHAPTER 6.0

SOIL GEOCHEMISTRY

6.1 INTRODUCTION

A total of 484 samples were collected from the "B" soil horizon on the Spencer property. Samples were collected every 50 metres on lines 200 metres apart and placed in grid-numbered kraft soil sample bags. The corresponding sample location was marked in the field by a grid-numbered piece of plastic flagging tape. Notes were taken on sample depth, colour and texture.

After drying the samples in camp, they were shipped to Bondar-Clegg and Company's North Vancouver, B.C. laboratory for sample preparation and analytical treatment. The minus 80 size fraction was digested using a hot extraction, HNO_3 -HCl solution and the analysis was completed for lead-zinc-silver-manganese by atomic absorption methods.

Laboratory analytical reports are appended to this report (Chapter 11.0).

6.2 RESULTS

Results of the soil geochemical survey are plotted for each element on Plates 2-5. In addition, anomalous values have been contoured and statistical summaries are presented on the plates for lead, zinc, silver and manganese. Statistical interpretation was completed using the Lepeltier Method (see Bibliography, Chapter 10.0).

Results of the geochemical survey are highlighted by two very high, single-station lead, zinc, silver, manganese soil anomalies. A sample location at 15+00E, 36+00N near the intrusive contact returned values of 3000 ppm lead, >50.0 ppm silver (assayed at 4.41 oz/ton silver), 1740 ppm zinc and 5600 ppm manganese. This irregular anomaly extends to the east for 300 metres with lower-order metal values. This soil anomaly has no north-south extent.

The single-station anomaly is situated at 15+00E, 54+00N in a drift covered area underlain by Atan group limestone and phyllite. Values of 1120 ppm lead, 4465 ppm zinc, 4.2 ppm silver and 14,000 ppm manganese were obtained from this sample location. No other anomalous sample sites are located nearby.

A third, lower-order but larger zinc-lead anomaly has been outlined in the southeast sampling area centered at 30+00E, 36+00N. The area is brush and forest covered and is probably underlain by Lower Cambrian phyllite and limestone. Values to 340 ppm lead and 2900 ppm zinc occur over a broad map area. This anomaly is open to the south.

Several other small, low-order soil anomalies occur over Lower Cambrian stratigraphy within a few hundred metres of the Cassiar Batholith.

Soil geochemistry has failed to pick up any extensions or representation of the known mineralized showing.

STATEMENT OF EXPENDITURES



LIST OF PERSONNEL AND CONTRACTORS



8.0

LIST OF PERSONNEL AND CONTRACTORS

PERSONNEL

<u>Name/Position</u>	<u>Residence</u>	<u>Dates Worked (field)</u>
David O'Brien Sampler	Ladysmith, B.C.	September 11,20,21,25, 1984
Cindy Harris Cook	Whiterock, B.C.	September 20,21, 1984
Kathy Richardson Sampler	Whistler, B.C.	September 11,20,21,22,25, 1984
Michael Stammers Geologist/Supervisor	Port Coquitlam,B.C.	September 11,15,20,21,22,25,1984
Jan Tindle Senior Sampler	Whistler, B.C.	September 11,20,21,22,24,25,1984

CONTRACTORS

McCrary Holdings (Yukon) Ltd. (Linecutting)	Whitehorse, Yukon	September 15-21, 1984
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WRITER'S CERTIFICATE



CORDILLERAN ENGINEERING

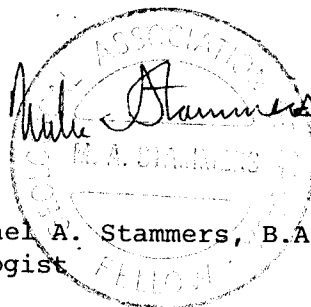
1980 GUINNESS TOWER, 1055 WEST HASTINGS STREET, VANCOUVER, B.C. V6E 2E9 TEL: (604) 681-8381

9.0 WRITER'S CERTIFICATE

I, Michael A. Stammers of Port Coquitlam, British Columbia hereby certify that:

1. I am a geologist residing at 1134 Lombardy Drive, and employed by Cordilleran Engineering of 1980-1055 West Hastings Street.
2. I have received a B.A. degree in Geology and Geography from McMaster University, Hamilton, Ontario in 1977 and I am a Fellow of the Geological Association of Canada.
3. I have practiced my profession for eleven years in British Columbia, Yukon and the Northwest Territories.
4. I am the author of this report and the supervisor of the field work conducted on the Spencer 1-60 claims by Cordilleran Engineering during the period June 1, 1984 to September 24, 1984.
5. I have no financial interest in the claims covered by this report or in Regional Resources Ltd.

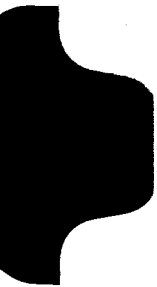
CORDILLERAN ENGINEERING



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Geologist

MAS/z
November, 1984
Vancouver, British Columbia

B I B L I O G R A P H Y



10.0

BIBLIOGRAPHY

1. Summary Report on the
Spencer Silver, Lead, Zinc Property
For Regional Resources Ltd.
By Cordilleran Engineering
December, 1983

2. Map 10-1960;
Wolf Lake, Yukon Territory, Sheet 105 B
Geology By Poole, Roddick and Green
Geological Survey of Canada

3. Claude Lepeltier
A Simplified Statistical Treatment
of Geochemical Data
by Graphical Representation,
Economic Geology, Vol 64, 1969

A P P E N D I X

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Lab Report

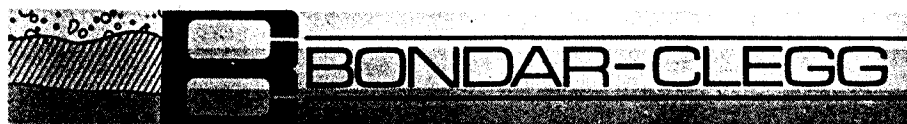
REPORT: 124-3254

PROJECT: SPENCER

PAGE 1

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S 33400N-1500E		60	171	0.9	650		S 33600N-1700E		65	317	0.4	2000	
S 33400N-1550E		38	120	0.6	197		S 33600N-1750E		74	460	0.4	1250	
S 33400N-1600E		59	316	1.1	330		S 33600N-1800E		88	379	2.0	510	
S 33400N-1650E		32	256	0.6	320		S 33600N-1850E		78	278	2.8	440	
S 33400N-1700E		30	252	0.8	650		S 33600N-1900E		51	181	2.2	620	
S 33400N-1750E		18	139	0.4	333		S 33600N-1950E		38	147	0.9	550	
S 33400N-1800E		30	102	0.6	500		S 33600N-2000E		43	224	0.5	620	
S 33400N-1850E		27	259	0.3	580		S 33600N-2050E		21	228	0.3	385	
S 33400N-1900E		23	199	0.4	815		S 33600N-2100E		70	393	0.5	670	
S 33400N-1950E		8	32	0.2	45		S 33600N-2150E		34	111	0.2	270	
S 33400N-2000E		17	50	0.4	124		S 33600N-2200E		60	168	0.2	440	
S 33400N-2050E		26	182	0.5	820		S 33600N-2250E		25	87	0.3	175	
S 33400N-2100E		26	142	0.7	565		S 33600N-2300E		27	101	<0.2	305	
S 33400N-2150E		18	77	0.2	212		S 33600N-2350E		29	162	1.7	800	
S 33400N-2200E		14	72	0.2	232		S 33600N-2400E		42	119	0.6	395	
S 33400N-2250E		19	144	1.2	1200		S 33600N-2450E		22	150	0.4	385	
S 33400N-2300E		24	156	0.3	250		S 33600N-2500E		23	103	1.0	865	
S 33400N-2350E		28	134	0.6	323		S 33600N-2550E		28	109	0.4	200	
S 33400N-2400E		16	87	0.4	160		S 33600N-2600E		24	85	1.0	815	
S 33400N-2450E		38	125	0.4	400		S 33600N-2650E		50	1660	1.0	980	
S 33400N-2500E		41	580	0.3	368		S 33600N-2700E		66	2900	0.4	352	
S 33400N-2550E		28	191	0.6	375		S 33600N-2750E		41	317	<0.2	745	
S 33400N-2600E		10	60	0.2	660		S 33600N-2800E		16	485	1.2	1050	
S 33400N-2650E		40	190	0.5	305		S 33600N-2850E		70	219	0.3	670	
S 33400N-2700E		31	113	0.3	180		S 33600N-2900E		102	285	0.6	400	
S 33400N-2750E		96	1720	1.0	510		S 33600N-2950E		340	153	0.5	565	
S 33400N-2800E		65	510	0.2	430		S 33600N-3000E		98	240	0.4	1100	
S 33400N-2850E		60	520	0.4	820		S 33600N-3050E		114	1740	0.8	420	
S 33400N-2900E		40	99	0.6	285		S 33600N-3100E		182	1230	0.9	410	
S 33400N-2950E		124	450	0.9	805		S 33600N-3150E		76	695	0.5	345	
S 33400N-3000E		90	239	0.7	795		S 33800N-1500E		62	142	0.4	400	
S 33400N-3050E		32	145	0.3	328		S 33800N-1550E		50	113	0.6	300	
S 33400N-3100E		40	144	0.4	680		S 33800N-1600E		52	151	0.4	340	
S 33400N-3150E		40	115	0.2	158		S 33800N-1650E		50	166	0.5	420	
S 33600N-1500E		3000	1740	> 50.0	5600		S 33800N-1700E		52	119	0.5	830	
S 33600N-1550E		77	625	1.6	1400		S 33800N-1750E		73	122	1.2	660	
S 33600N-1600E		20	31	3.1	370		S 33800N-1800E		52	120	0.4	322	
S 33600N-1650E		125	485	1.7	1050		S 33800N-1850E		42	168	0.6	970	
							S 33800N-1900E		25	130	<0.2	390	

Bondar-Clegg & Company Ltd.
 130 Pemberton Ave.
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 Telex: 04-352667



Geochemical
 Lab Report

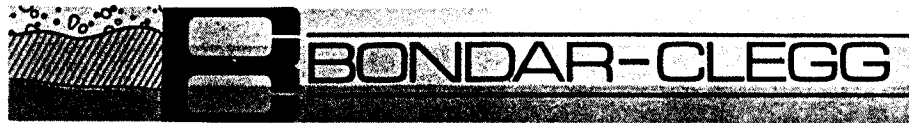
REPORT: 124-3254

PROJECT: SPENCER

PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	Mn PPM	NOTE	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	Mn PPM	NOTE
S 53800N-1950E		46	125	<0.2	325		S 54000N-1750E		37	144	0.6	520	
S 53800N-2000E		28	122	<0.2	505		S 54000N-1800E		46	134	0.4	665	
S 53800N-2050E		33	88	0.4	265		S 54000N-1850E		56	102	0.4	470	
S 53800N-2100E		26	52	0.4	215		S 54000N-1900E		51	92	0.5	240	
S 53800N-2150E		40	125	0.2	320		S 54000N-1950E		36	53	0.5	193	
S 53800N-2200E		22	66	<0.2	235		S 54000N-2000E		46	114	0.4	290	
S 53800N-2250E		46	93	0.4	395		S 54000N-2050E		26	57	0.2	212	
S 53800N-2300E		42	142	<0.2	465		S 54000N-2100E		42	78	0.4	278	
S 53800N-2350E		34	88	0.2	1160		S 54000N-2150E		34	85	0.3	268	
S 53800N-2400E		20	100	<0.2	750		S 54000N-2200E		36	115	0.3	290	
S 53800N-2450E		30	138	0.4	1150		S 54000N-2250E		67	110	0.3	280	
S 53800N-2500E		22	119	<0.2	545		S 54000N-2300E		46	138	0.4	290	
S 53800N-2550E		20	129	<0.2	530		S 54000N-2350E		30	109	<0.2	381	
S 53800N-2600E		16	100	<0.2	210		S 54000N-2400E		46	158	0.7	370	
S 53800N-2650E		13	147	<0.2	1170		S 54000N-2450E		24	117	0.8	960	
S 53800N-2700E		14	107	<0.2	240		S 54000N-2500E		94	72	0.2	880	
S 53800N-2750E		22	148	0.2	510		S 54000N-2550E		26	143	0.8	1300	
S 53800N-2800E		74	174	0.2	420		S 54000N-2600E		36	136	0.2	1000	
S 53800N-2850E		66	133	<0.2	690		S 54000N-2650E		24	204	0.3	680	
S 53800N-2900E		46	137	0.2	430		S 54000N-2700E		120	161	0.2	815	
S 53800N-2950E		45	171	0.2	366		S 54000N-2750E		52	170	0.6	530	
S 53800N-3000E		48	125	0.4	350		S 54000N-2800E		22	113	0.4	362	
S 53800N-3100E		129	450	0.4	720		S 54000N-2850E		42	143	0.4	320	
S 53800N-3150E		94	301	0.3	240		S 54000N-2900E		53	128	0.3	620	
S 53800N-3200E		125	290	0.3	480		S 54000N-2950E		44	179	<0.2	745	
S 54000N-1000E		102	144	0.3	465		S 54000N-3000E		60	198	0.3	282	
S 54000N-1050E		47	75	<0.2	122		S 54000N-3050E		66	247	0.2	1400	
S 54000N-1100E		25	15	0.2	25		S 54000N-3100E		75	142	0.2	560	
S 54000N-1150E		26	39	0.2	30		S 54000N-3150E		54	179	0.2	400	
S 54000N-1200E		16	14	<0.2	65		S 54000N-3200E		70	204	0.4	630	
S 54000N-1250E		67	94	0.5	105		S 54200N-1000E		72	90	0.3	248	
S 54000N-1300E		66	115	0.4	480		S 54200N-1050E		33	50	0.2	102	
S 54000N-1350E		64	120	0.3	550		S 54200N-1100E		48	74	<0.2	210	
S 54000N-1400E		102	120	0.2	1050		S 54200N-1150E		64	57	1.4	322	
S 54000N-1450E		98	217	1.2	610		S 54200N-1200E		80	96	0.4	198	
S 54000N-1500E		187	296	1.0	1600		S 54200N-1250E		41	85	<0.2	290	
S 54000N-1550E		47	136	0.3	1200		S 54200N-1300E		60	100	<0.2	440	
S 54000N-1600E		40	67	0.3	258		S 54200N-1350E		29	70	<0.2	650	
S 54000N-1650E		48	128	0.4	490		S 54200N-1400E		55	79	<0.2	293	
S 54000N-1700E		40	160	0.5	480		S 54200N-1450E		32	58	0.2	300	

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	Mn PPM	NOTE	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	Mn PPM	NOTE
S 54200N-1500E		50	230	0.6	1000		S 54400N-1250E		4	12	<0.2	20	
S 54200N-1550E		92	181	0.4	2100		S 54400N-1300E		74	129	0.3	200	
S 54200N-1600E		19	172	0.3	650		S 54400N-1350E		64	118	<0.2	3300	
S 54200N-1650E		94	185	0.2	800		S 54400N-1400E		20	63	0.2	1200	
S 54200N-1700E		40	101	0.3	375		S 54400N-1450E		18	39	<0.2	105	
S 54200N-1750E		66	112	0.3	490		S 54400N-1500E		70	225	<0.2	3100	
S 54200N-1800E		40	151	0.6	415		S 54400N-1600E		41	128	0.5	770	
S 54200N-1850E		77	181	1.2	605		S 54400N-1650E		59	112	0.2	535	
S 54200N-1900E		124	271	2.0	450		S 54400N-1700E		106	342	0.6	525	
S 54200N-1950E		60	148	0.6	345		S 54400N-1750E		55	128	0.2	535	
S 54200N-2000E		54	129	0.8	390		S 54400N-1800E		33	100	0.3	1000	
S 54200N-2050E		38	149	0.6	485		S 54400N-1850E		49	70	0.4	1200	
S 54200N-2100E		31	132	0.5	460		S 54400N-1900E		45	143	0.4	390	
S 54200N-2150E		48	135	0.4	372		S 54400N-1950E		80	121	0.3	222	
S 54200N-2200E		32	139	0.5	550		S 54400N-2000E		122	238	1.7	570	
S 54200N-2250E		50	119	0.8	338		S 54400N-2050E		55	205	0.5	720	
S 54200N-2300E		68	148	0.8	760		S 54400N-2100E		32	79	0.3	160	
S 54200N-2350E		70	98	0.3	246		S 54400N-2150E		26	80	0.2	505	
S 54200N-2400E		54	126	0.2	268		S 54400N-2200E		34	100	0.6	322	
S 54200N-2450E		66	118	0.4	580		S 54400N-2250E		47	148	0.3	810	
S 54200N-2500E		46	96	0.4	335		S 54400N-2300E		46	124	0.6	365	
S 54200N-2550E		58	128	0.8	525		S 54400N-2350E		40	170	0.4	460	
S 54200N-2600E		40	110	0.3	585		S 54400N-2400E		100	152	0.8	865	
S 54200N-2650E		45	102	0.5	380		S 54400N-2450E		55	167	0.5	1100	
S 54200N-2700E		39	129	0.4	92		S 54400N-2500E		50	124	0.6	800	
S 54200N-2750E		10	120	0.2	168		S 54400N-2550E		20	138	0.5	530	
S 54200N-2800E		47	96	0.6	455		S 54400N-2600E		32	129	0.4	300	
S 54200N-2850E		60	119	0.8	315		S 54400N-2650E		50	112	0.4	485	
S 54200N-2900E		43	129	0.4	365		S 54400N-2700E		30	115	0.3	480	
S 54200N-2950E		52	155	0.6	330		S 54400N-2750E		35	76	0.3	242	
S 54200N-3000E		46	146	0.4	470		S 54400N-2800E		17	97	<0.2	170	
S 54200N-3050E		58	148	0.5	505		S 54400N-2850E		21	90	0.4	285	
S 54200N-3100E		52	232	0.2	1300		S 54400N-2900E		22	97	0.2	340	
S 54200N-3150E		62	185	0.2	205		S 54400N-2950E		44	112	0.2	123	
S 54200N-3200E		40	138	0.3	410		S 54400N-3000E		25	83	0.4	635	
S 54400N-1000E		48	74	0.2	220		S 54400N-3050E		56	172	0.5	800	
S 54400N-1050E		56	104	0.2	131		S 54400N-3100E		46	87	0.4	220	
S 54400N-1100E		36	43	0.2	100		S 54400N-3150E		48	163	0.3	1000	
S 54400N-1150E		10	29	0.2	83		S 54400N-3200E		45	135	0.3	540	
S 54400N-1200E		28	88	<0.2	630		S 54600N-1000E		42	55	0.5	250	

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	Mn PPM	NOTE	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	Mn PPM	NOTE
S 54600N-1050E		83	15	<0.2	38		S 54800N-3100E		48	107	<0.2	505	
S 54600N-1100E		30	52	<0.2	490		S 54800N-3150E		37	116	0.3	535	
S 54600N-1150E		34	59	0.2	125		S 54800N-3200E		37	132	0.3	830	
S 54600N-1200E		55	133	0.2	520		S 54800N-1000E		30	67	<0.2	186	
S 54600N-1250E		61	121	0.3	445		S 54800N-1050E		43	101	<0.2	261	
S 54600N-1300E		54	186	0.3	1200		S 54800N-1100E		33	78	<0.2	153	
S 54600N-1350E		64	90	0.2	460		S 54800N-1150E		76	72	0.8	264	
S 54600N-1400E		102	235	<0.2	770		S 54800N-1250E		46	84	0.2	167	
S 54600N-1450E		107	176	0.2	570		S 54800N-1300E		95	128	0.3	1480	
S 54600N-1500E		116	352	<0.2	160		S 54800N-1350E		40	130	0.3	265	
S 54600N-1600E		22	24	<0.2	32		S 54800N-1400E		77	202	1.7	630	
S 54600N-1650E		36	67	<0.2	880		S 54800N-1450E		64	172	0.5	209	
S 54600N-1700E		114	107	<0.2	1000		S 54800N-1500E		44	91	0.2	430	
S 54600N-1750E		65	105	0.4	880		S 54800N-1550E		6	5	<0.2	12	
S 54600N-1800E		54	55	0.3	130		S 54800N-1600E		98	93	<0.2	294	
S 54600N-1850E		42	82	<0.2	198		S 54800N-1650E		74	99	<0.2	745	
S 54600N-1900E		55	91	<0.2	290		S 54800N-1700E		45	103	<0.2	400	
S 54600N-1950E		50	96	0.4	660		S 54800N-1750E		45	179	<0.2	615	
S 54600N-2000E		62	191	0.4	1000		S 54800N-1800E		52	100	<0.2	168	
S 54600N-2050E		26	74	0.2	330		S 54800N-1850E		15	35	<0.2	91	
S 54600N-2100E		54	126	0.6	420		S 54800N-1900E		60	81	<0.2	164	
S 54600N-2150E		58	146	0.2	925		S 54800N-1950E		36	65	<0.2	167	
S 54600N-2200E		72	156	0.6	355		S 54800N-2000E		32	120	0.5	330	
S 54600N-2250E		64	134	0.3	440		S 54800N-2050E		62	210	0.4	630	
S 54600N-2300E		34	84	0.2	340		S 54800N-2100E		78	155	0.2	950	
S 54600N-2350E		50	141	0.2	285		S 54800N-2150E		57	142	0.2	615	
S 54600N-2400E		68	145	0.5	470		S 54800N-2200E		55	135	0.2	500	
S 54600N-2450E		58	128	0.5	445		S 54800N-2250E		32	112	0.2	1000	
S 54600N-2500E		180	189	0.6	420		S 54800N-2300E		52	150	0.2	347	
S 54600N-2550E		50	112	0.3	560		S 54800N-2350E		32	108	<0.2	338	
S 54600N-2600E		62	104	0.6	570		S 54800N-2400E		39	96	0.2	364	
S 54600N-2650E		74	110	0.5	490		S 54800N-2450E		33	122	<0.2	500	
S 54600N-2700E		61	139	0.8	625		S 54800N-2500E		30	73	<0.2	715	
S 54600N-2750E		46	112	0.3	279		S 54800N-2550E		70	137	0.3	415	
S 54600N-2800E		58	150	0.7	405		S 54800N-2600E		78	149	0.3	386	
S 54600N-2850E		50	128	0.3	271		S 54800N-2650E		77	184	0.4	430	
S 54600N-2900E		24	126	<0.2	710		S 54800N-2700E		108	224	0.3	610	
S 54600N-2950E		19	108	<0.2	670		S 54800N-2750E		76	170	0.4	505	
S 54600N-3000E		27	128	<0.2	410		S 54800N-2800E		68	151	0.3	550	
S 54600N-3050E		59	163	0.3	535		S 54800N-2850E		48	135	0.4	445	

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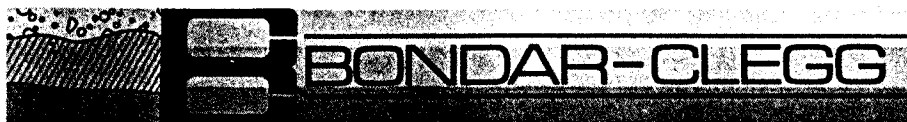
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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	Mn PPM	NOTE	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	Mn PPM	NOTE
S 84800N-2900E		37	111	0.3	450		S 85000N-2200E		30	80	<0.2	595	
S 84800N-2950E		54	120	0.8	395		S 85000N-2250E		41	135	<0.2	455	
S 84800N-3000E		42	102	<0.2	265		S 85000N-2300E		28	116	<0.2	241	
S 84800N-3050E		55	127	<0.2	334		S 85000N-2350E		40	189	0.4	222	
S 84800N-3100E		25	28	0.2	69		S 85000N-2400E		62	130	<0.2	298	
S 84800N-3150E		44	96	0.2	590		S 85000N-2450E		29	112	<0.2	475	
S 84800N-3200E		62	119	0.3	500		S 85000N-2500E		31	126	<0.2	298	
S 85000N-550E		18	37	<0.2	370		S 85000N-2550E		35	117	<0.2	890	
S 85000N-600E		32	62	0.2	215		S 85000N-2600E		31	106	<0.2	1480	
S 85000N-650E		340	202	2.3	4370		S 85000N-2650E		87	148	<0.2	365	
S 85000N-700E		57	107	0.2	368		S 85000N-2700E		43	119	<0.2	415	
S 85000N-750E		64	72	<0.2	520		S 85000N-2750E		36	107	<0.2	570	
S 85000N-800E		60	61	0.2	182		S 85000N-2800E		89	231	0.4	660	
S 85000N-850E		142	199	0.4	1000		S 85000N-2850E		43	97	<0.2	302	
S 85000N-900E		29	38	<0.2	195		S 85000N-2900E		48	130	<0.2	415	
S 85000N-950E		38	52	<0.2	291		S 85000N-2950E		38	112	<0.2	460	
S 85000N-1000E		91	110	0.3	203		S 85000N-3000E		56	194	<0.2	450	
S 85000N-1050E		110	162	1.0	570		S 85000N-3050E		56	145	0.4	475	
S 85000N-1100E		56	62	<0.2	224		S 85000N-3100E		45	114	<0.2	336	
S 85000N-1150E		84	201	0.6	267		S 85000N-3150E		44	121	<0.2	328	
S 85000N-1200E		78	83	1.2	525		S 85000N-3200E		63	121	<0.2	670	
S 85000N-1250E		23	30	0.2	87		S 85200N-550E		38	105	<0.2	386	
S 85000N-1300E		62	116	0.3	750		S 85200N-600E		51	76	<0.2	305	
S 85000N-1350E		27	70	<0.2	133		S 85200N-650E		36	49	<0.2	177	
S 85000N-1400E		66	150	0.4	415		S 85200N-700E		100	131	<0.2	530	
S 85000N-1450E		38	47	0.3	57		S 85200N-750E		47	71	<0.2	279	
S 85000N-1500E		59	131	0.7	211		S 85200N-800E		150	115	1.1	755	
S 85000N-1550E		36	58	0.2	102		S 85200N-850E		27	52	<0.2	510	
S 85000N-1600E		38	121	0.2	1290		S 85200N-900E		33	69	<0.2	235	
S 85000N-1650E		16	27	<0.2	45		S 85200N-950E		20	10	0.8	29	
S 85000N-1700E		22	10	0.9	14		S 85200N-1000E		52	50	1.0	161	
S 85000N-1750E		27	65	<0.2	106		S 85200N-1050E		41	31	0.2	135	
S 85000N-1800E		36	48	0.4	107		S 85200N-1100E		40	80	0.3	665	
S 85000N-1850E		29	62	0.4	118		S 85200N-1150E		36	38	0.5	109	
S 85000N-1900E		35	21	1.0	44		S 85200N-1200E		54	62	2.1	341	
S 85000N-1950E		62	102	<0.2	354		S 85200N-1250E		3	6	0.2	15	
S 85000N-2000E		39	98	<0.2	163		S 85200N-1300E		57	120	0.5	425	
S 85000N-2050E		13	32	<0.2	74		S 85200N-1350E		28	72	2.1	121	
S 85000N-2100E		27	64	<0.2	190		S 85200N-1400E		15	30	0.2	71	
S 85000N-2150E		47	73	<0.2	293		S 85200N-1450E		30	95	0.2	177	

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	Mn PPM	NOTE	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	Mn PPM	NOTE
S 55200N-1500E		27	20	<0.2	119		S 55400N-950E		64	97	<0.2	1600	
S 55200N-1550E		40	95	<0.2	193		S 55400N-1000E		33	88	<0.2	1150	
S 55200N-1600E		42	114	0.5	332		S 55400N-1050E		30	41	<0.2	135	
S 55200N-1650E		32	136	0.4	194		S 55400N-1100E		87	29	1.0	108	
S 55200N-1700E		44	130	0.5	520		S 55400N-1200E		65	67	0.4	284	
S 55200N-1750E		56	160	0.6	376		S 55400N-1250E		46	71	0.2	135	
S 55200N-1800E		40	163	0.3	415		S 55400N-1300E		28	69	<0.2	234	
S 55200N-1850E		38	156	0.2	227		S 55400N-1350E		56	41	0.4	103	
S 55200N-1900E		44	92	<0.2	324		S 55400N-1400E		40	40	0.7	214	
S 55200N-1950E		32	33	<0.2	55		S 55400N-1450E		49	63	<0.2	115	
S 55200N-2000E		35	122	1.0	1750		S 55400N-1500E		1120	4465	4.2	14000	
S 55200N-2050E		28	144	0.6	1280		S 55400N-1550E		18	78	<0.2	283	
S 55200N-2100E		39	79	0.2	735		S 55400N-1600E		48	107	<0.2	327	
S 55200N-2150E		35	147	0.5	185		S 55400N-1650E		44	48	<0.2	149	
S 55200N-2200E		23	94	0.2	222		S 55400N-1700E		36	239	0.9	1320	
S 55200N-2250E		13	46	<0.2	97		S 55400N-1750E		31	112	0.4	2350	
S 55200N-2300E		45	107	0.2	440		S 55400N-1800E		24	264	<0.2	550	
S 55200N-2350E		45	141	<0.2	314		S 55400N-1850E		39	194	0.5	1460	
S 55200N-2400E		133	203	<0.2	387		S 55400N-1900E		35	79	<0.2	124	
S 55200N-2450E		112	377	0.6	915		S 55400N-1950E		52	119	0.7	1240	
S 55200N-2500E		32	80	<0.2	530		S 55400N-2000E		33	173	0.6	1015	
S 55200N-2550E		50	165	<0.2	410		S 55400N-2050E		14	84	<0.2	109	
S 55200N-2600E		34	93	<0.2	176		S 55400N-2100E		20	106	0.2	430	
S 55200N-2650E		34	191	<0.2	371		S 55400N-2150E		33	145	0.8	232	
S 55200N-2700E		37	117	<0.2	161		S 55400N-2200E		24	126	0.4	212	
S 55200N-2750E		50	136	<0.2	148		S 55400N-2250E		26	143	<0.2	665	
S 55200N-2800E		41	110	<0.2	353		S 55400N-2300E		41	96	0.2	348	
S 55200N-2850E		27	112	<0.2	510		S 55400N-2350E		60	137	0.2	755	
S 55200N-2900E		46	120	<0.2	224		S 55400N-2400E		69	154	<0.2	311	
S 55200N-2950E		57	107	0.3	455		S 55400N-2450E		74	103	<0.2	465	
S 55200N-3000E		45	110	0.3	1250		S 55400N-2500E		70	108	<0.2	670	
S 55200N-3050E		27	126	0.4	900		S 55400N-2550E		5	18	<0.2	31	
S 55200N-3100E		48	137	<0.2	286		S 55400N-2600E		17	65	<0.2	76	
S 55200N-3150E		40	119	<0.2	585		S 55400N-2650E		46	153	<0.2	750	
S 55200N-3200E		40	115	0.2	388		S 55400N-2700E		34	146	<0.2	1220	
S 55400N-700E		230	304	0.4	760		S 55400N-2750E		46	87	<0.2	297	
S 55400N-750E		90	195	0.2	925		S 55400N-2800E		35	142	0.6	670	
S 55400N-800E		58	141	0.2	665		S 55400N-2850E		50	160	<0.2	214	
S 55400N-850E		52	70	<0.2	346		S 55400N-2900E		58	94	<0.2	316	
S 55400N-900E		35	66	<0.2	210		S 55400N-2950E		33	156	<0.2	376	



ROCK SAMPLE RESULTS

Sample No.	Pb ppm	Zn ppm	Ag ppm	Mn ppm	Zn %	Ag oz/ton
SM 209-1R	7	41	+2	125	—	—
SM 209-2R	8	20	+2	360	—	—
SM 209-5R	4140	>20000	>50.0	>20000	6.40	6.20

LITHOLOGY

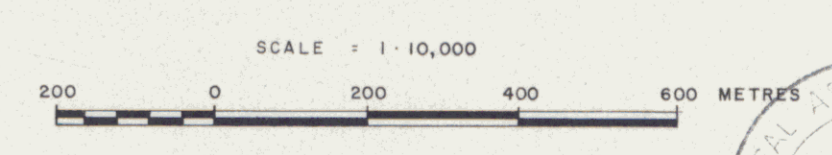
- CRETACEOUS**
- 3 CASSIAR BATHOLITH MEDIUM-GRAINED, BIOTITE-QUARTZ MONZONITE
- LOWER CAMBRIAN**
- 2 ATAN GROUP UNDIVIDED LIMESTONE, PHYLLITE, MINOR SKARN
 - 2a ATAN GROUP LIMESTONE RECRYSTALLIZED, COARSELY CRYSTALLINE LIGHT BUFF-GRAY, MASSIVE MINOR PYROXENE SKARN
 - 2b ATAN GROUP LIMESTONE AND PHYLLITE BUFF LIMESTONE WITH PHYLLITE PARTINGS AND INTERBEDS, MINOR QUARTZ-BIOTITE SCHIST AND HORNFELS, THIN TO MEDIUM BEDDED
 - 2c ATAN GROUP PHYLLITE VARIABLY CALCAREOUS AND CARBONACEOUS MEDIUM GRAY, MINOR QUARTZ-BIOTITE SCHIST
 - 1 ATAN GROUP QUARTZITE PALE CREAM GRAY, PHYLLITE PARTINGS, THICK BEDDED

SYMBOLS

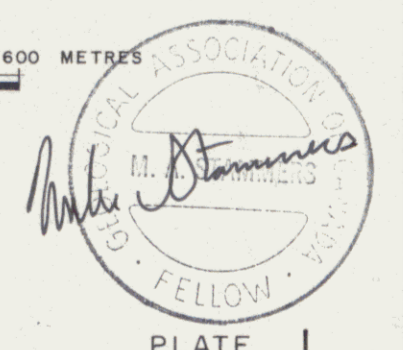
- OUTCROP SHOWING LITHOLOGY
- BEDDING ATTITUDE
- JOINT ATTITUDE
- APPROXIMATE GEOLOGICAL CONTACT
- FAULT OR CRUSTAL LINEAR
- ROCK SAMPLE LOCATION
- TRENCH
- CUT LINE

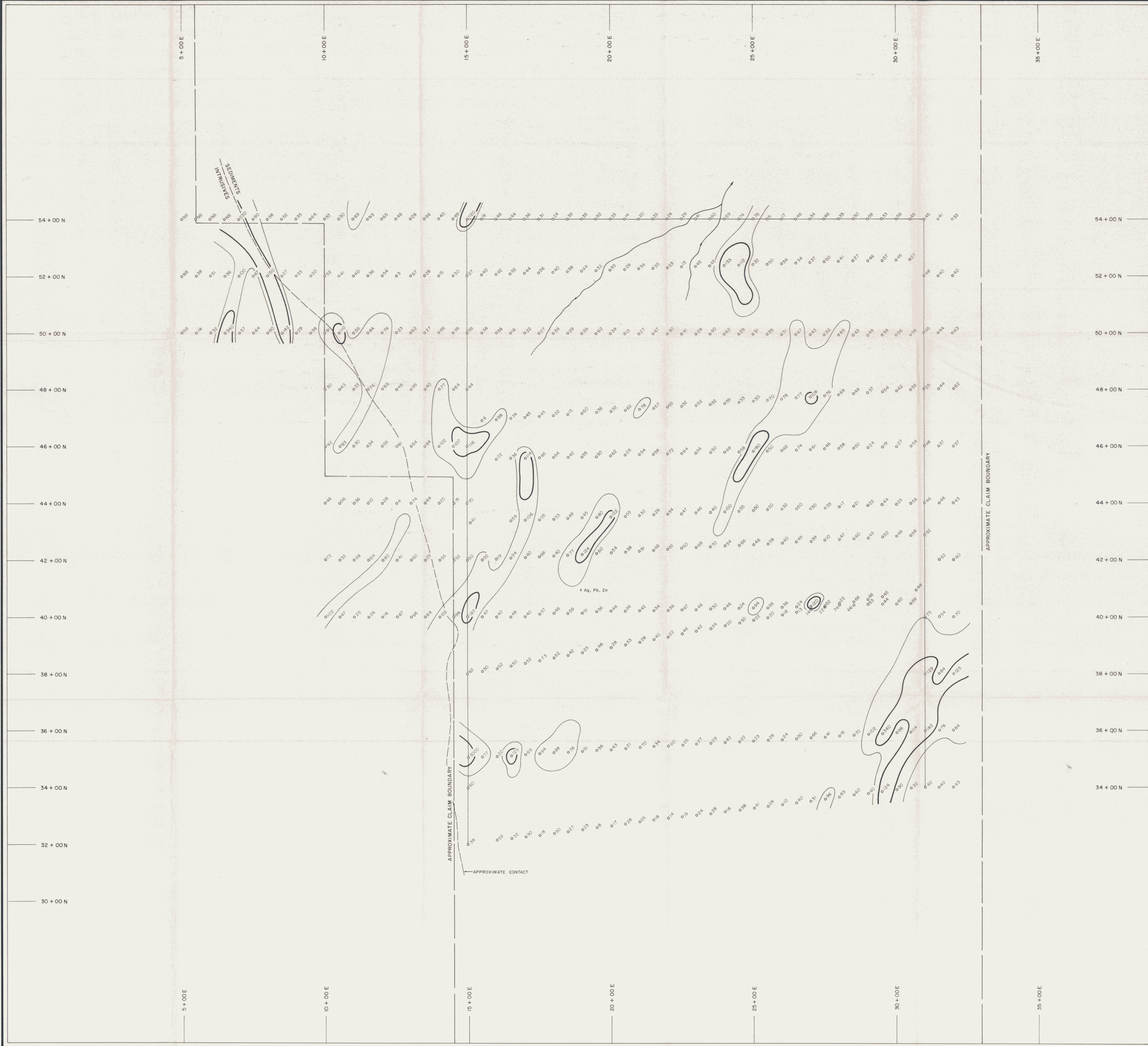
NOTE: TOPOGRAPHY FROM N.T.S. 105B/1, 2 1:50,000 SCALE MAPS
CONTOUR INTERVAL 100 FEET

091589
REGIONAL RESOURCES LTD.
PRELIMINARY GEOLOGY MAP
SPENCER CLAIM GROUP
WOLF LAKE MAP AREA, N.T.S. 105B/1&2
WATSON LAKE MINING DISTRICT, YUKON TERRITORY



BY
CORDILLERAN ENGINEERING
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9





EXPLANATION

- SOIL SAMPLE STATION
- NS NO SAMPLE
- CUT LINE
- 107 ppm LEAD CONTOUR
- 75 ppm LEAD CONTOUR

HIGHLY ANOMALOUS > 107 ppm
 ANOMALOUS 62 - 107 ppm
 BACKGROUND < 35 ppm

ALL VALUES IN PARTS PER MILLION (ppm)

*Ag, Pb, Zn SILVER-LEAD-ZINC MINERALIZATION

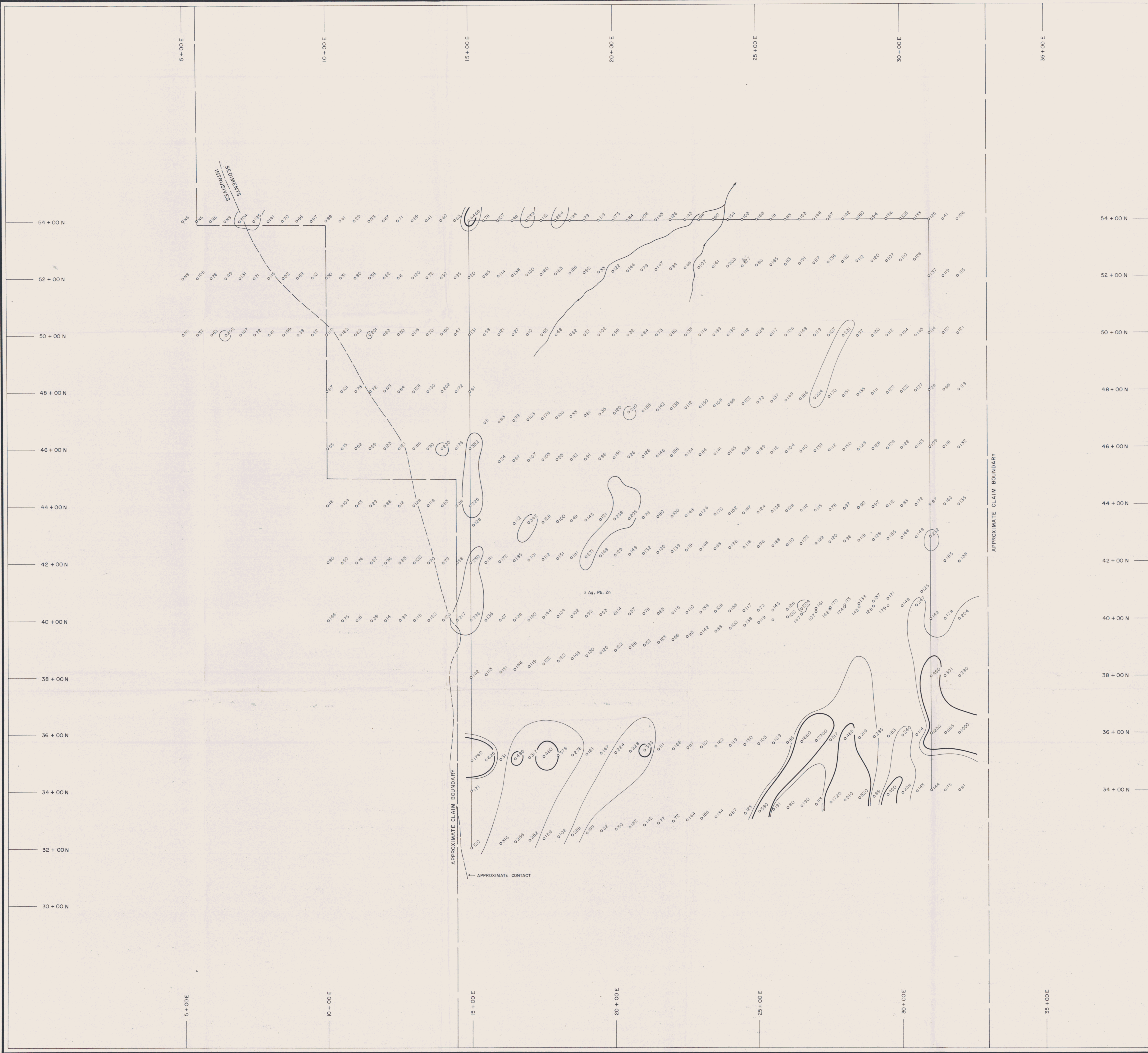
091589
 REGIONAL RESOURCES LTD.
LEAD GEOCHEMISTRY
 SPENCER CLAIM GROUP
 WOLF LAKE MAP AREA, N.T.S. 105B/1 & 2
 WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE 1:5,000
 100 0 100 200 300 METRES

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 VANCOUVER, B.C. V6E 2E9

OCTOBER 1984

FLATE 2



EXPLANATION

- SOIL SAMPLE STATION
- NS NO SAMPLE
- CUT LINE
- 379 ppm ZINC CONTOUR
- 200 ppm ZINC CONTOUR

HIGHLY ANOMALOUS > 379 ppm
 ANOMALOUS 180 - 379 ppm
 BACKGROUND < 86 ppm

ALL VALUES IN PARTS PER MILLION (ppm)

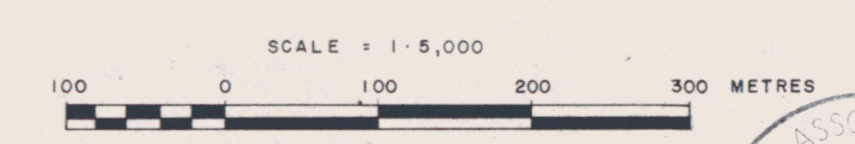
x Ag, Pb, Zn SILVER - LEAD - ZINC MINERALIZATION

091589

REGIONAL RESOURCES LTD.

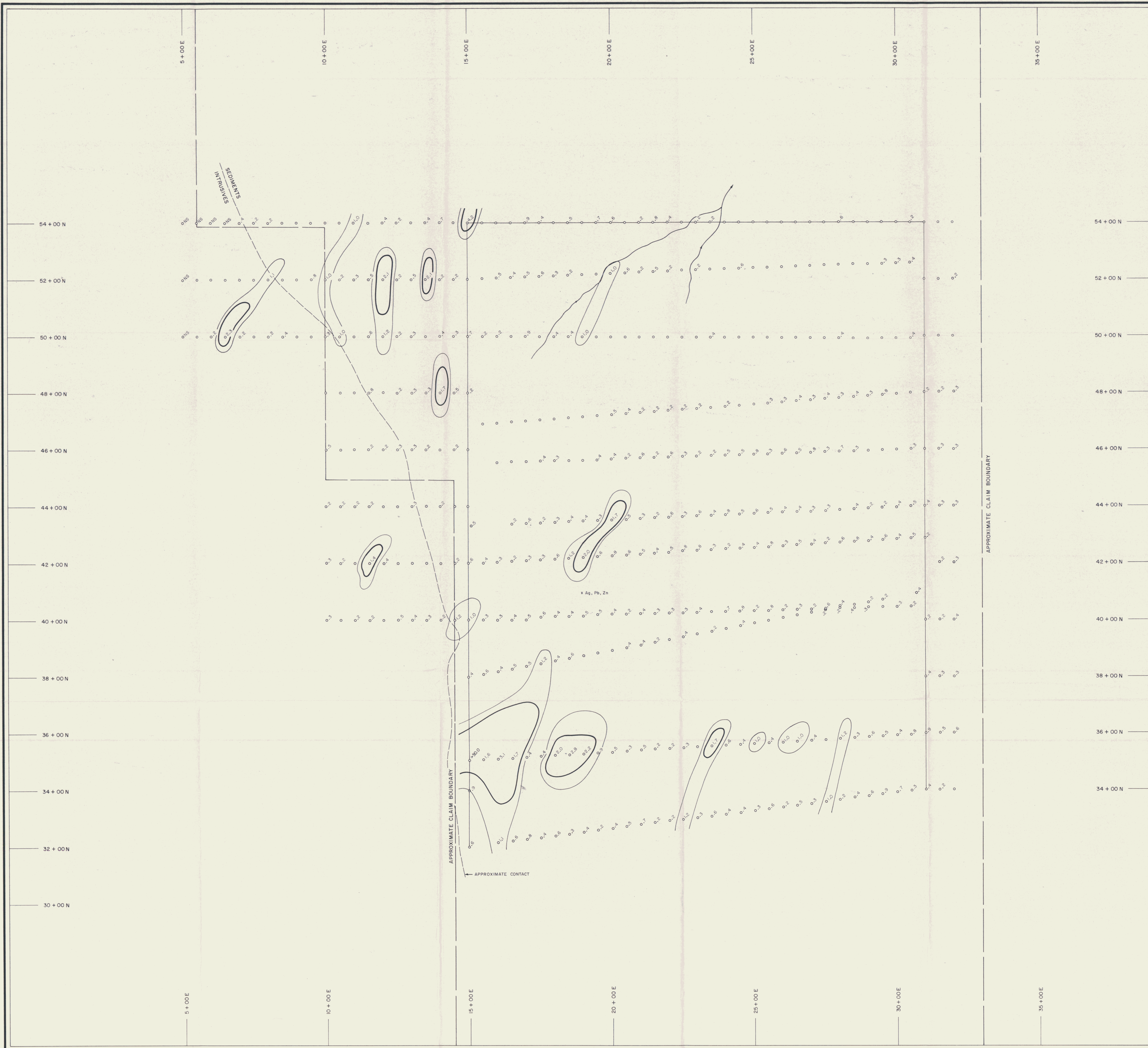
ZINC GEOCHEMISTRY

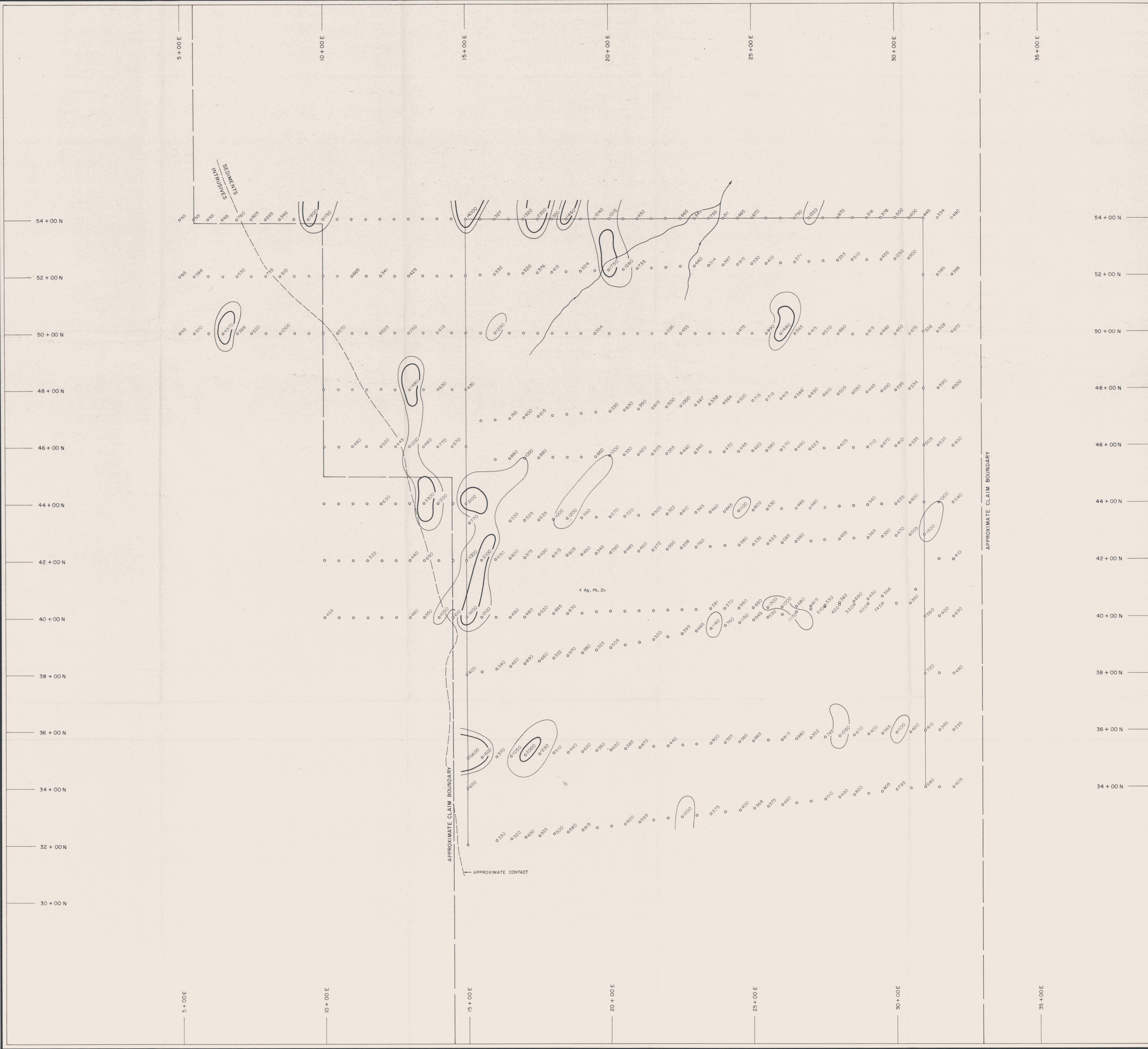
SPENCER CLAIM GROUP
 WOLF LAKE MAP AREA, N.T.S. 105B/1 & 2
 WATSON LAKE MINING DISTRICT, YUKON TERRITORY



BY
 CORDILLERAN ENGINEERING
 1980 - 1055 W. HASTINGS STREET
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EXPLANATION

- SOIL SAMPLE STATION
 - NS NO SAMPLE
 - CUT LINE
 - 1350 ppm MANGANESE CONTOUR
 - 1000 ppm MANGANESE CONTOUR
- HIGHLY ANOMALOUS > 1349 ppm
 ANOMALOUS 656 - 1349 ppm
 BACKGROUND < 310 ppm
- ALL VALUES IN PARTS PER MILLION (ppm)
 ONLY VALUES ABOVE BACKGROUND PLOTTED.
- x Ag, Pb, Zn SILVER - LEAD - ZINC MINERALIZATION

091589

REGIONAL RESOURCES LTD.

MANGANESE GEOCHEMISTRY

SPENCER CLAIM GROUP
 WOLF LAKE MAP AREA, N.T.S. 105B/1 & 2
 WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE 1 : 5,000

BY
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OCTOBER 1984

PLATE 5