

86-769-15323

GEOCHEMICAL ASSESSMENT REPORT

ON THE

BIG RANGE NORTH, BIG RANGE SOUTH

AND

TIMBERLINE GROUPS

NEW WESTMINSTER MINING DIVISION

LATITUDE: 49°19'8"

LONGITUDE: 121° 07'

NTS 92H/6E

FOR

Owner(s): CAARA VENTURES INC.  
2204 - 808 NELSON STEET  
VANCOUVER, BRITISH COLUMBIA

*Skeen Minerals Inc.*

Operator: *Caara Ventures Inc.*  
BY

P.G. CURTIS, ACSM, DMT FGAC

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

FILMED

15,323

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## Summary

A geochemical soil sampling program was carried out on the Big Range claim groups. Three men spent 27 days on the property working from 2 camp sites.

A total of 470 soil samples were collected, representing 11,000 metres of survey line. The Rice Creek base line was extended for 600 m to the north.

The cost of this program was approximately \$ 22,000.

## INTRODUCTION

The Big Range claim groups are situated approximately 19 km east of the town of Hope, between the Manson Ridge and Mount Davis. Elevations within the claim area range from 750 m in the Sawakua Valley to 2,000 on the slopes of Mount Outram.

Access is by helicopter. Logging roads exist to the north of the property, and these may extend on to the property in the near future.

The property is underlain by the Hozameen Fault. This fault is associated with the Coquihalla serpentine belt and separates two distinct crustal units. At this location, southwest of the fault, are members of the Permian to Jurassic Hozameen group comprising ultramafic rocks of the serpentine belt overlain by greenstone and chert, and to the northeast are Jurassic to Cretaceous turbidite and successor basin deposits of the Pasayten Trough. The oldest sedimentary rocks in the trough, the Ladner group, contain a locally developed basal unit that hosts the Carolin Mine gold orebody. The property is currently owned by Caara Ventures Inc. of Vancouver, B.C. The claims were staked in 1984 following the government release of a "no staking or exploration free zone". The property consists of the following:

Group Name	Claim Name	Units	Record No.
Big Range Group	Big Range		2433
North	11 & 13 to 17	95	2435-2439
Big Range Group	Big Range		2429-2432
South	7 to 10 & 12	82	2434
Timberline Group	Timberline		
	3, 4 & 5 and	26	2476, 2503, 2504
	Timberwolf 3	3	2719

The assessment work completed during 1986 comprised the following:

11,000 metres soil sampling  
600 metres line cutting

A total of 479 soil samples and 9 rock samples were taken. Each sample was assayed for 5 elements.

### **Geochemical Survey**

The samples were collected from the B horizon, but on the steeply sloping valley sides where the soil cover was very thin, considerable mixing of A & B horizons has occurred, and in many instances no true horizons have developed. In these cases the sample was taken just below the organic layer. Where inadequate B horizon material was available, the samples generally required pulverizing before assaying.

All samples were analyzed by Acme Analytical Laboratories Ltd. of Vancouver, B.C. One hundred fifty-nine (159) samples were analyzed for Cu, Pb, Zn, Ag, As and Au, and for the remainder, Mo was assayed instead of Pb. Testing methods are summarized at the head of the assay certificates (Appendix A).

### **Interpretation**

The two areas covered by the program are referred to as the Rice Creek Zone, Map 2) and the Timberwolf Zone (Map 3).

For statistical purposes, threshold and anomalous values were ascertained from value frequency graphs (Appendix B) using all assay values.

Samples underlain by the monzonite plug in the Rice Creek area differed significantly in respect of arsenic and molybdenum. For this reason, a large area of the western part of the Rice Creek zone has been indicated as underlain by monzonite (several xenoliths of chert and argillite are known to occur in this area). Extension of the anomalous zone may also be due to aplitic sills that lie in

area). Extension of the anomalous zone may also be due to aplitic sills that lie in a northwest-southeast direction. Two of these sills outcrop on the north bank of Angus Creek where the adjacent cherty argillite is heavily iron-stained and hosting approximately a half percent pyrite (Channel Samples Nos. 37302-37306) disseminated as very fine crystals. The sills carry no visible mineralization.

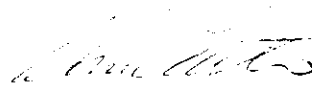
A significant gold anomaly occurs at the west end of Line 91+00 but only single high values occur in the adjacent lines and it is probably caused by a quartz lens associated with minor amounts of Cu and Mo. Quartz veins, or small scale fractures, may account for the remaining isolated anomalous values that occur in the Rice Creek area.

In the Timberwolf zone, which is underlain by interbedded argillites, cherts and volcanics, the scattered anomalous gold values are probably due to an above-average gold content in some of the argillite beds. The fault which runs between the two western cirques is known to contain values of copper and gold and is believed to be the extension of the showing on the Master Ace claims to the southeast on the opposite side of the cirque. This fault is indicated by a strong topographic feature in the form of a gully almost completely filled by talus. The sides of the cirques were too precipitous to allow sampling but the fault can be seen to extend for some distance to the northeast. The values obtained over the fault probably represent the talus material and not the bedrock which is believed to contain oxidized vein material as seen at the cliff face and containing at least 500 ppm Cu. (Sample BRL H45N-53+20W.)

### Conclusion

The soil sampling program should be continued to the north, especially to the east of the Hozameen Fault, to try to locate a geological unit similar to that of the Carolin Mine.

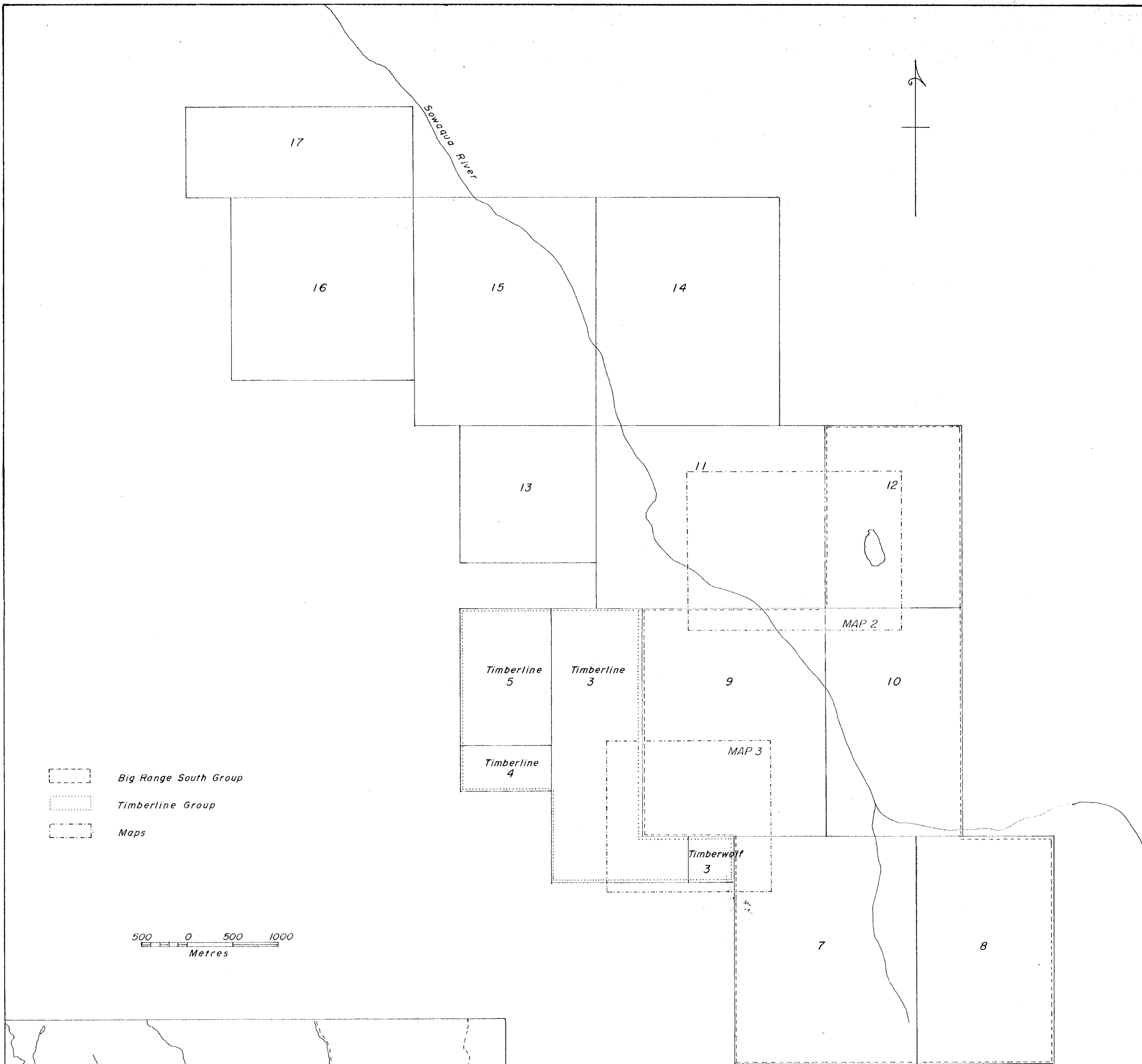
Respectfully submitted at Vancouver, B.C.



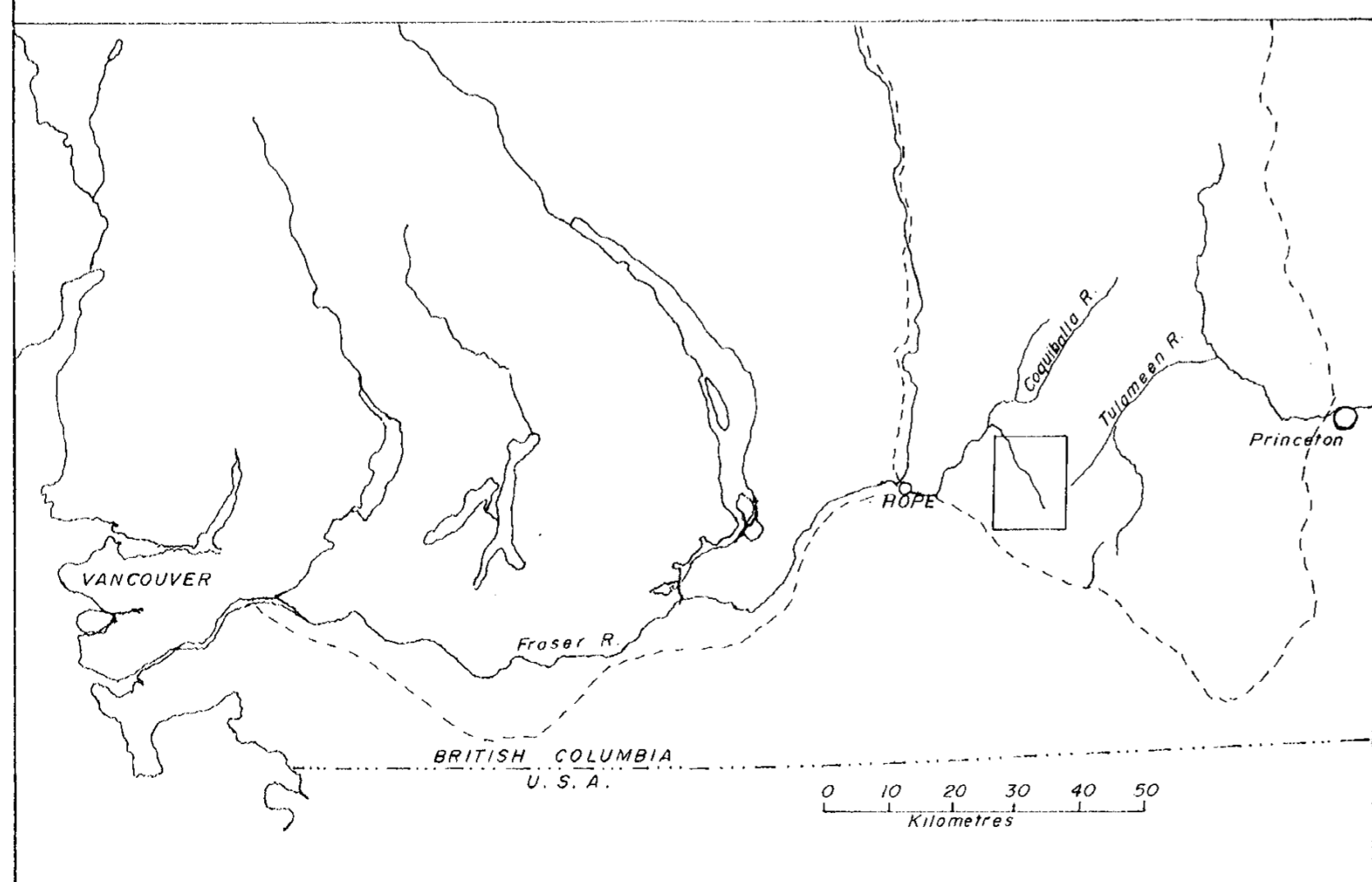
P.G. Curtis, ACSM, DMT, FGAC



20 November 1986



**15323**



**CAARA VENTURES Inc.**

BIG RANGE GROUPS

LOCATION & CLAIMS  
SHOWING  
WORK DISTRIBUTION

Scale 1: 25,000 PGC Oct. 1986 MAP 1

**APPENDIX A**  
**ASSAY CERTIFICATES**



ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: OCT 16 1986

DATE REPORT MAILED:

*Oct. 22/86.*

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK CHIPS AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toy* DEAN TOYE. CERTIFIED B.C. ASSAYER.

CAARA VENTURES

FILE # 86-3239

PAGE 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au* PPB
37302	1	16	5	16	.1	3
37303	1	46	6	98	.1	1
37304	1	38	8	106	.1	1
37305	1	47	3	127	.1	2
37306	2	50	3	114	.1	1
37307	1	45	3	101	.3	1
STD C/AU-R	21	59	40	133	7.0	505

ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS, VANCOUVER B.C.  
PH: (604) 253-3158 COMPUTER LINE: 251-1011

DATE RECEIVED OCT 16 1986  
DATE REPORTS MAILED Oct 22/86

### ASSAY CERTIFICATE

SAMPLE TYPE : ROCK - CRUSHED AND PULVERIZED TO -100 MESH.

ASSAYER D. Toye DEAN TOYE , CERTIFIED B.C. ASSAYER

CAARA VENTURES FILE# 86-3239A

PAGE# 1

SAMPLE	Ag oz/t	Au oz/t
37301	.02	.001
37308	.01	.001

ACME ANALYTICAL LABORATORIES LTD.  
 85. E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: OCT 16 1986

DATE REPORT MAILED:

*Oct. 23/86...*

**GEOCHEMICAL ICP ANALYSIS**

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: SOILS -80 MESH AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE. P = Pulverized

ASSAYER: *D. Toye*..DEAN TOYE. CERTIFIED B.C. ASSAYER.

CAARA VENTURES

FILE # 86-3248

PAGE 1

SAMPLE#		Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
BRL 5+80N 49+00W	P	20	12	46	.1	15	2
BRL 5+80N 48+80W	P	11	11	11	.2	2	1
BRL 5+80N 48+60W	P	29	11	44	.1	16	2
BRL 5+80N 48+40W	P	29	17	69	.1	27	21
BRL 5+80N 48+20W	P	25	13	49	.1	18	2
BRL 5+80N 48+00W	P	30	9	42	.3	18	1
BRL 5+80N 47+80W	P	25	9	49	.1	13	1
BRL 5+80N 47+60W	P	24	3	38	.2	4	7
BRL 5+80N 47+40W	P	28	9	74	.1	70	109
BRL 5+80N 47+20W		22	14	44	.1	60	8
BRL 5+80N 47+00W		25	15	38	.1	80	7
BRL 5+80N 46+80W	P	22	26	50	.1	23	3
BRL 5+80N 46+60W		10	12	10	.2	3	1
BRL 5+80N 46+40W		26	18	44	.3	12	3
BRL 5+80N 46+20W		7	7	17	.3	8	2
BRL 5+80N 46+00W	P	18	10	22	.2	8	2
BRL 5+80N 45+80W	P	19	11	26	.1	7	7
BRL 5+80N 45+60W	P	20	14	26	.1	14	4
BRL 5+80N 45+40W	P	15	13	10	.2	6	1
BRL 5+80N 45+20W	P	27	17	46	.1	47	1
BRL 5+80N 45+00W	P	37	8	25	.1	7	1
BRL 5+80N 44+80W	P	28	8	34	.1	56	5
BRL 5+80N 44+60W	P	7	2	33	.1	4	1
BRL 5+80N 44+40W	P	7	2	18	.2	2	1
BRL 5+80N 44+20W	P	51	13	49	1.9	18	1
BRL 5+80N 44+00W	P	60	13	22	.9	118	7
BRL 5+80N 43+80W	P	50	15	22	.9	165	1
BRL 5+80N 43+60W	P	104	12	89	.1	56	1
BRL 5+80N 43+40W	P	45	15	84	.1	10	1
BRL 5+80N 43+40W	BP	60	22	105	.1	36	1
BRL 5+80N 43+20W	P	32	11	83	.1	12	2
BRL 5+80N 43+00W	P	19	7	67	.1	12	1
BRL 5+80N 42+80W	P	19	6	47	.1	10	1
BRL 5+80N 42+60W	P	29	21	71	.1	6	2
BRL 5+80N 42+40W	P	28	9	59	.1	5	3
STD C/AU-S		60	36	133	7.0	40	53

SAMPLE#		Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
BRL 4+BON 49+00W P		36	2	41	.1	16	2
BRL 4+BON 48+80W P		31	2	59	.1	46	3
BRL 4+BON 48+60W P		39	9	69	.1	31	1
BRL 4+BON 48+40W P		32	7	47	.2	14	1
BRL 4+BON 48+20W P		30	2	52	.1	15	18
BRL 4+BON 48+00W P		30	2	55	.1	11	1
BRL 4+BON 47+80W		58	2	75	.1	32	1
BRL 4+BON 47+60W		47	13	83	.2	20	1
BRL 4+BON 47+40W		23	12	8	.1	5	1
BRL 4+BON 47+20W P		31	9	24	.2	17	4
BRL 4+BON 47+00W P		26	14	32	.1	12	2
BRL 4+BON 46+80W P		12	17	11	.1	11	2
BRL 4+BON 46+60W P		14	4	18	.1	2	1
BRL 4+BON 46+40W P		50	6	44	.1	11	4
BRL 4+BON 46+20W		23	19	25	.1	8	1
BRL 4+BON 46+00W P		35	13	63	.2	100	6
BRL 4+BON 45+80W		27	7	11	.1	4	2
BRL 4+BON 45+60W		13	19	10	.1	4	2
BRL 4+BON 45+20W P		12	7	16	.1	16	1
BRL 4+BON 45+00W P		56	3	13	1.6	10	4
BRL 4+BON 44+80W P		15	10	21	.2	84	5
BRL 4+BON 44+60W		35	14	42	.3	60	4
BRL 4+BON 44+40W P		60	7	77	.2	53	15
BRL 4+BON 44+20W P		32	12	44	.7	15	1
BRL 4+BON 44+00W P		26	10	38	.4	27	2
BRL 4+BON 43+80W P		56	6	62	.1	36	11
BRL 4+BON 43+60W		43	10	84	.4	61	2
BRL 4+BON 43+40W		22	9	50	.1	14	5
BRL 3+BON 49+00W P		56	3	135	.1	55	11
BRL 3+BON 48+80W		49	2	80	.1	26	1
BRL 3+BON 48+60W P		28	14	59	.1	15	2
BRL 3+BON 48+40W		28	16	50	.3	22	1
BRL 3+BON 48+20W P		21	6	50	.2	14	3
BRL 3+BON 48+00W		33	5	58	.2	16	4
BRL 3+BON 47+80W		28	8	57	.1	22	2
BRL 3+BON 47+60W		20	9	29	.1	11	10
STD C/AU-S		58	42	132	6.8	39	52

## CAARA VENTURES

FILE # 86-3248

PAGE 3

SAMPLE#			Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
BLR 3+80N 47+40W			32	14	42	.1	7	3
BLR 3+80N 47+20W	P		37	13	46	.2	10	2
BLR 3+80N 47+00W			18	14	27	.3	3	3
BLR 3+80N 46+80W			7	9	11	.1	2	1
BLR 3+80N 46+60W	P		28	13	39	.1	16	1
BLR 3+80N 46+40W	P		37	6	69	.1	22	1
BLR 3+80N 46+20W	P		24	13	57	.1	15	2
BLR 3+80N 46+00W	P		24	15	34	.1	3	5
BLR 3+80N 45+80W	P		23	20	36	.5	44	1
BLR 3+80N 45+60W	P		36	7	49	.1	98	5
BLR 2+80N 49+00W			27	10	51	.1	5	2
BLR 2+80N 48+80W			38	9	53	.1	11	1
BLR 2+80N 48+60W			31	13	54	.1	13	3
BLR 2+80N 48+40W	P		26	6	50	.2	8	3
BLR 2+80N 48+20W	P		25	5	67	.1	7	3
BLR 2+80N 48+00W	P		33	11	74	.1	45	3
BLR 2+80N 47+80W	P		14	15	18	.1	2	2
BLR 2+80N 47+60W			30	14	55	.1	5	3
BLR 2+80N 47+40W	P		26	13	41	.1	10	4
BLR 2+80N 47+20W	P		20	7	27	.2	7	3
BLR 2+80N 47+00W	P		21	12	27	.2	2	1
BLR 2+80N 46+80W	P		9	8	18	.2	2	3
BLR 2+80N 46+60W	P		23	8	43	.2	5	1
BLR 2+80N 46+40W	P		27	13	39	.1	6	5
BLR 2+80N 46+20W	P		28	12	52	.1	16	14
BLR 2+80N 46+00W	P		25	20	49	.1	24	305
BLR 2+80N 45+80W	P		24	13	22	.1	7	7
BLR 2+80N 45+60W	P		24	15	38	.2	16	1
BLR 1+80N 49+00W			36	29	43	.1	22	17
BLR 1+80N 48+80W			29	12	48	.1	5	1
BLR 1+80N 48+60W			53	13	96	.2	55	1
BLR 1+80N 48+40W			42	8	83	.1	29	2
BLR 1+80N 48+20W	P		31	10	64	.1	5	2
BLR 1+80N 48+00W			11	4	11	.1	2	2
BLR 1+80N 47+80W	P		24	7	64	.1	12	2
BLR 1+80N 47+60W	P		30	5	38	.2	5	1
STD C/AU-S			59	37	130	6.8	39	50

SAMPLE#		Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
BRL 1+80N 47+40W		11	11	13	.1	2	1
BRL 1+80N 47+20W		15	9	25	.4	7	4
BRL 1+80N 47+00W		18	14	29	.1	9	1
BRL 1+80N 46+80W P		63	12	78	.1	19	1
BRL 1+80N 46+60W P		39	17	63	.1	20	1
BRL 1+80N 46+40W P		22	11	26	.2	8	2
BRL 1+80N 46+20W P		31	9	52	.1	12	1
BRL 1+80N 46+00W		20	23	29	.2	19	2
BRL 1+45N 53+20WROCK P		507	5	47	.1	40	4
BRL 1+00N 53+00W P		33	10	49	.2	14	2
BRL 1+00N 52+80W P		46	11	77	.1	10	2
BRL 1+00N 52+60W P		13	9	18	.3	17	1
BRL 1+00N 52+40W P		42	12	48	.1	21	5
BRL 1+00N 52+20W P		77	12	75	.1	64	3
BRL 1+00N 52+00W P		39	14	30	.1	12	4
BRL 1+00N 51+80W		87	21	78	.2	65	2
BRL 1+00N 51+40W P		103	9	38	.9	13	1
BRL 1+00N 51+20W		72	10	89	.2	15	2
BRL 1+00N 51+00W P		33	10	18	.1	8	2
BRL 1+00N 50+80W P		13	13	24	.1	3	1
BRL 1+00N 50+60W P		35	5	29	.1	5	1
BRL 1+00N 50+40W P		16	9	30	.1	8	4
BRL 1+00N 50+20W P		21	9	17	.2	3	1
BRL 1+00N 50+10W P		7	2	28	.1	2	7
BRL 0+80N 50+00W P		22	7	25	.3	5	1
BRL 0+80N 49+80W P		39	2	54	.3	40	4
BRL 0+80N 49+60W		33	14	58	.1	26	1
BRL 0+80N 49+40W P		30	12	93	.1	13	1
BRL 0+80N 49+20W P		35	2	60	.1	14	2
BRL 0+80N 49+00W P		40	6	65	.1	14	19
BRL 0+80N 48+80W P		36	3	18	.1	5	4
BRL 0+80N 48+60W P		29	14	20	.1	6	3
BRL 0+80N 48+40W P		19	8	32	.1	3	4
BRL 0+80N 48+20W P		35	2	25	.1	8	4
BRL 0+80N 48+00W P		36	11	14	.2	8	4
BRL 0+80N 47+80W		9	11	14	.1	2	3
STD C/AU-S		59	39	134	7.2	41	51

## CAARA VENTURES

FILE # 86-3248

PAGE 5

SAMPLE#			Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	AU* PPB
BRL 0+BON 47+60W	P		28	4	60	.1	5	1
BRL 0+BON 47+40W	P		8	7	22	.1	2	1
BRL 0+BON 47+20W	P		8	4	17	.1	2	1
BRL 0+BON 47+00W			12	8	27	.1	10	2
BRL 0+BON 46+80W	P		22	2	55	.1	3	1
BRL 0+BON 46+60W	P		17	9	17	.1	3	1
BRL 0+BON 46+40W			15	11	19	.2	2	2
BRL 0+BON 46+20W	P		26	3	69	.1	10	1
BRL 0+BON 46+00W			14	7	18	.2	3	1
BRL 0+00N 54+20W	P		9	8	8	.1	2	1
BRL 0+00N 54+00W			14	8	23	.1	3	5
BRL 0+00N 53+80W	P		17	13	42	.1	9	1
BRL 0+00N 53+60W			43	9	70	.1	11	9
BRL 0+00N 53+40W	P		71	6	49	.1	5	3
BRL 0+00N 53+20W	P		50	9	64	.1	15	2
BRL 0+00N 53+00W	P		56	5	36	.2	9	1
STD C/AU-S			58	37	132	7.1	38	48

ACME ANALYTICAL LABORATORIES LTD.  
 85 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
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 - SAMPLE TYPE: SOILS -80MESH AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE. P = Pulverized

ASSAYER: *D. Toy* DEAN TOYE. CERTIFIED B.C. ASSAYER.

CAARA VENTURES

FILE # 86-3246

PAGE 1

SAMPLE#	Mb PPM	Cu PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
BR 87+00S 0+00E	1	21	132	.3	19	1
BR 87+00S 0+25E P	2	25	122	.3	18	1
BR 87+00S 0+50E	1	13	117	.3	12	1
BR 87+00S 0+75E P	2	24	102	.3	19	2
BR 87+00S 1+00E P	1	16	60	.2	16	1
BR 87+00S 1+25E P	2	28	103	.4	21	1
BR 87+00S 1+50E P	2	24	110	.3	18	1
BR 87+00S 1+75E P	2	21	139	.2	13	2
BR 87+00S 2+00E P	2	12	100	.3	24	1
BR 87+00S 2+25E P	2	20	131	.3	21	1
BR 87+00S 2+50E P	2	25	126	.3	22	2
BR 87+00S 2+75E P	1	24	139	.4	15	1
BR 87+00S 3+00E	1	17	161	.3	15	1
BR 87+00S 3+25E P	1	17	160	.2	18	1
BR 87+00S 3+50E P	2	27	146	.3	13	1
BR 87+00S 3+75E P	2	23	167	.3	14	1
BR 87+00S 4+00E P	1	32	133	.2	12	1
BR 87+00S 4+25E P	2	30	123	.2	14	2
BR 87+00S 4+50E P	4	13	191	.3	30	1
BR 87+00S 4+75E	5	29	309	.3	58	1
BR 87+00S 5+00E	2	12	215	.1	38	1
BR 87+00S 5+25E	3	24	363	.2	75	2
BR 87+00S 5+50E	3	21	271	.2	2573	1
BR 87+00S 5+75E	7	14	288	.2	90	1
BR 87+00S 6+00E	3	19	149	.4	17	2
BR 87+00S 6+25E	1	6	72	.3	16	1
BR 87+00S 6+50E	1	10	142	.5	19	2
BR 87+00S 6+75E	2	13	103	.1	13	1
BR 87+00S 7+00E	3	17	141	.2	13	1
BR 87+00S 7+25E	1	21	94	.3	17	1
BR 87+00S 7+50E P	2	17	110	.2	8	2
BR 87+00S 7+75E	1	27	178	.2	9	1
BR 87+00S 8+00E	1	11	142	.2	8	1
BR 87+00S 8+25E	1	13	227	.2	13	1
BR 87+00S 8+50E	2	11	137	.1	11	1
BR 87+00S 8+75E	2	17	125	.2	11	1
STD C/AU-S	21	58	132	7.0	42	52



SAMPLE#	Mo PPM	Cu PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
BR 87+00S 9+00E	2	17	229	.2	5	3
BR 87+00S 9+25E	1	21	181	.3	2	1
BR 87+00S 9+50E	3	24	273	.2	7	2
BR 87+00S 9+75E	1	11	132	.1	3	1
BR 87+00S 10+00E	1	12	144	.1	2	1
BR 87+00S 10+25E	1	15	100	.2	8	3
BR 87+00S 10+50E	1	16	117	.3	10	1
BR 87+00S 10+75E	2	15	190	.1	13	1
BR 87+00S 11+00E	1	28	200	.5	29	2
BR 87+00S 11+25E	1	18	172	.3	5	2
BR 87+00S 11+50E	4	13	173	.5	17	2
BR 87+00S 11+75E	2	13	215	.5	10	2
BR 87+00S 12+00E	4	16	319	.4	11	1
BR 87+00S 12+25E	1	15	107	.1	4	7
BR 87+00S 12+50E	1	15	87	.1	8	1
BR 87+00S 12+75E	1	17	103	.3	4	12
BR 87+00S 13+00E	1	16	94	.3	2	5
BR 87+00S 13+25E	3	18	172	.4	8	3
BR 87+00S 13+50E	1	17	101	.4	2	5
BR 87+00S 13+75E	4	14	156	.4	4	1
BR 87+00S 14+00E	1	15	83	.4	3	6
BR 87+00S 14+25E	1	16	92	.4	2	4
BR 87+00S 14+50E	1	11	49	.2	3	5
BR 87+00S 14+75E	1	13	68	.2	7	1
BR 87+00S 15+00E	2	25	69	.4	7	2
BR 88+00S 0+00E	1	19	120	.3	8	1
BR 88+00S 0+25E	1	14	78	.1	12	1
BR 88+00S 0+50E	1	16	128	.3	41	1
BR 88+00S 0+75E	3	38	195	.4	68	1
BR 88+00S 1+00E	5	23	166	.4	221	1
BR 88+00S 1+25E	2	15	111	.4	22	1
BR 88+00S 1+50E	1	14	68	.2	9	1
BR 88+00S 1+75E	1	7	44	.1	25	1
BR 88+00S 2+00E	1	17	129	.4	14	1
BR 88+00S 2+25E	1	21	96	.2	41	1
BR 88+00S 2+50E	3	33	273	.3	69	1
STD C/AU-S	20	58	129	6.9	36	50

SAMPLE#	Mo PPM	Cu PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
BR 88+00S 2+75E	2	25	192	.2	95	2
BR 88+00S 3+00E	2	14	196	.2	62	1
BR 88+00S 3+25E p	1	25	157	.2	226	1
BR 88+00S 3+50E p	1	25	203	.2	130	4
BR 88+00S 3+75E p	3	12	181	.3	133	1
BR 88+00S 4+00E	2	14	231	.2	128	1
BR 88+00S 4+25E	4	36	621	.2	223	1
BR 88+00S 4+50E p	4	31	481	.3	118	1
BR 88+00S 4+75E p	3	32	453	.4	91	1
BR 88+00S 5+00E	2	22	236	.2	30	2
BR 88+00S 5+25E	1	4	67	.1	9	2
BR 88+00S 5+50E p	1	11	273	.2	31	1
BR 88+00S 5+75E p	1	15	150	.2	16	1
BR 88+00S 6+00E	1	11	137	.2	8	1
BR 88+00S 6+25E	2	20	265	.2	16	1
BR 88+00S 6+50E	2	30	109	.2	2	1
BR 88+00S 6+75E p	1	16	173	.4	7	1
BR 88+00S 7+25E p	1	14	165	.1	6	1
BR 88+00S 7+50E	1	15	193	.2	7	1
BR 88+00S 7+75E p	3	23	181	.4	11	1
BR 88+00S 8+00E	1	9	130	.2	7	1
BR 88+00S 8+25E p	2	23	181	.2	9	1
BR 88+00S 8+50E	1	24	150	.2	12	1
BR 88+00S 8+75E	2	12	107	.2	12	1
BR 88+00S 9+00E p	2	17	242	.2	8	2
BR 88+00S 9+25E p	2	17	356	.3	12	1
BR 88+00S 9+50E p	1	16	216	.3	7	1
BR 88+00S 9+75E	3	14	115	.3	8	1
BR 88+00S 10+00E	3	21	467	.3	12	2
BR 88+00S 10+25EP	2	13	243	.3	7	2
BR 88+00S 10+50EP	1	19	135	.3	5	1
BR 88+00S 10+75E	3	9	162	.3	27	2
BR 88+00S 11+00E	1	18	167	.4	5	1
BR 88+00S 11+25EP	2	28	525	.4	10	2
BR 88+00S 11+50E	2	14	207	.3	6	1
BR 88+00S 11+75E	4	11	309	.3	9	2
STD C/AU-S	21	59	130	7.1	35	52

SAMPLE#	Mo PPM	Cu PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
BR 88+00S 12+00E	6	18	423	.4	14	3
BR 88+00S 12+25E	1	15	119	.1	7	1
BR 88+00S 12+50E	1	19	167	.1	8	1
BR 88+00S 12+75E	1	20	205	.2	12	1
BR 88+00S 13+00E	1	10	130	.2	5	1
BR 88+00S 13+25E	1	10	63	.1	6	1
BR 88+00S 13+50E	2	7	99	.1	2	1
BR 88+00S 13+75E	3	11	126	.1	3	1
BR 88+00S 14+00E	6	18	208	.3	11	1
BR 88+00S 14+25E	1	14	91	.2	5	1
BR 88+00S 14+50E	1	18	100	.1	6	1
BR 88+00S 14+75E	2	15	92	.1	6	2
BR 88+00S 15+00E	1	14	52	.1	6	1
BR 90+00S 0+00E	22	21	163	.2	121	1
BR 90+00S 0+25E	8	25	132	.1	39	2
BR 90+00S 0+50E	8	60	199	.4	149	2
BR 90+00S 0+75E	2	21	77	.1	20	1
BR 90+00S 1+00E	1	12	74	.3	15	1
BR 90+00S 1+25E	2	23	95	.1	30	1
BR 90+00S 1+50E	1	12	64	.2	24	1
BR 90+00S 1+75E	1	29	151	.2	22	1
BR 90+00S 2+00E	2	14	203	.3	20	1
BR 90+00S 2+25E	2	48	158	.1	45	1
BR 90+00S 2+50E	3	22	150	.3	122	1
BR 90+00S 2+75E	5	25	164	.4	198	1
BR 90+00S 3+00E	2	18	138	.2	97	1
BR 90+00S 3+25E	3	29	184	.3	244	1
BR 90+00S 3+50E	5	60	205	.3	713	39
BR 90+00S 3+75E	3	29	215	.3	245	2
BR 90+00S 4+00E	5	30	283	.3	130	1
BR 90+00S 4+25E	3	32	198	.1	162	1
BR 90+00S 4+50E	3	30	231	.1	138	1
BR 90+00S 4+75E	3	24	185	.1	77	1
BR 90+00S 5+00E	6	26	327	.1	174	2
BR 90+00S 5+25E	4	18	212	.2	122	2
BR 90+00S 5+50E	6	132	325	.4	374	2
STD C/AU-S	21	58	130	7.0	37	48

SAMPLE#	Mo PPM	Cu PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
BR 90+00S 5+75E	7	41	543	.6	282	1
BR 90+00S 6+00E	4	26	493	.5	2289	5
BR 90+00S 6+25E	3	17	588	.4	143	4
BR 90+00S 6+50E	5	29	399	.9	154	4
BR 90+00S 6+75E	3	17	294	.3	16	5
BR 90+00S 7+00E	2	6	122	.2	34	1
BR 90+00S 7+25E	4	16	313	.2	206	1
BR 90+00S 7+50E	2	12	209	.3	18	2
BR 90+00S 7+75E	2	8	170	.3	18	2
BR 90+00S 8+00E	4	26	351	.5	39	1
BR 90+00S 8+25E	3	20	160	.3	13	1
BR 90+00S 8+50E	1	10	204	.2	4	1
BR 90+00S 9+00E	2	19	128	.2	3	1
BR 90+00S 9+25E	2	31	142	.6	7	1
BR 90+00S 9+50E p	2	14	94	.4	8	1
BR 90+00S 9+75E	2	28	194	.3	2	2
BR 90+00S 10+00E	2	11	100	.2	3	1
BR 90+00S 10+25E p	4	15	268	.3	9	1
BR 90+00S 10+50E	3	20	209	.2	13	1
BR 90+00S 10+75E	3	10	127	.2	2	2
BR 90+00S 11+00E p	4	14	229	.2	28	2
BR 90+00S 11+25E	6	26	270	.8	11	1
BR 90+00S 11+50E	2	12	101	.3	9	1
BR 90+00S 11+75E p	2	10	149	.3	16	1
BR 90+00S 12+00E	2	13	197	.2	4	3
BR 90+00S 12+25E	2	17	185	.2	7	2
BR 90+00S 12+50E p	3	20	414	.5	13	1
BR 90+00S 12+75E p	4	13	405	.3	23	2
BR 90+00S 13+00E	5	15	379	.3	25	1
BR 90+00S 13+25E	2	16	150	.3	7	3
BR 90+00S 13+50E	6	19	112	.3	2	1
BR 90+00S 13+75E	2	14	152	.2	3	3
BR 90+00S 14+00E	3	12	121	.3	8	5
BR 90+00S 14+25E	2	18	145	.3	8	4
BR 90+00S 14+50E	2	17	143	.4	13	5
BR 90+00S 14+75E p	2	15	143	.1	6	7
BR 90+00S 15+00E	1	19	67	.2	3	4
STD C/AU-S	21	57	128	6.8	35	53

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SAMPLE#	Mo PPM	Cu PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
BR 91+00S 0+25E	6	27	123	.3	54	4
BR 91+00S 0+50E	12	36	268	.7	108	27
BR 91+00S 0+75E	23	64	256	1.7	186	1
BR 91+00S 1+00E	1	26	111	.3	15	1
BR 91+00S 1+25E	1	14	44	.2	10	2
BR 91+00S 1+50E	1	18	116	.2	12	4
BR 91+00S 1+75E	1	20	149	.2	9	1
BR 91+00S 2+00E	2	27	155	.2	47	1
BR 91+00S 2+25E	2	37	130	.3	50	1
BR 91+00S 2+50E	3	26	136	.4	57	1
BR 91+00S 2+75E	7	45	380	.7	447	4
BR 91+00S 3+00E	4	40	320	.5	232	8
BR 91+00S 3+25E	3	32	266	.4	219	16
BR 91+00S 3+75E	4	32	206	.4	154	11
BR 91+00S 4+00E	4	25	234	.3	271	1
BR 91+00S 4+25E	3	11	167	.2	107	2
BR 91+00S 4+50E	3	19	148	.2	115	1
BR 91+00S 4+75E	5	49	555	.5	295	1
BR 91+00S 5+00E	3	27	257	.4	168	1
BR 91+00S 5+25E	4	24	305	.2	334	1
BR 91+00S 5+50E	3	33	222	.3	156	1
BR 91+00S 5+75E	3	21	278	.3	151	1
BR 91+00S 6+00E	2	7	160	.3	123	2
BR 91+00S 6+25E	3	24	288	.5	151	15
BR 91+00S 6+50E	4	37	573	.5	67	1
BR 91+00S 6+75E	4	22	323	.3	43	2
BR 91+00S 7+00E	4	10	390	.3	30	1
BR 91+00S 7+25E	3	24	402	.2	22	2
BR 91+00S 7+50E	3	29	334	.4	162	1
BR 91+00S 7+75E	3	17	424	.3	80	1
BR 91+00S 8+00E	4	71	774	.4	220	1
BR 91+00S 8+25E	2	12	146	.2	30	1
BR 91+00S 8+50E	2	12	100	.2	15	2
BR 91+00S 8+75E	3	18	97	1.3	29	1
BR 91+00S 9+00E	1	13	155	.3	9	1
BR 91+00S 9+25E	1	10	111	.2	6	1
STD C/AU-S	20	59	128	6.9	39	50

## CAARA VENTURES

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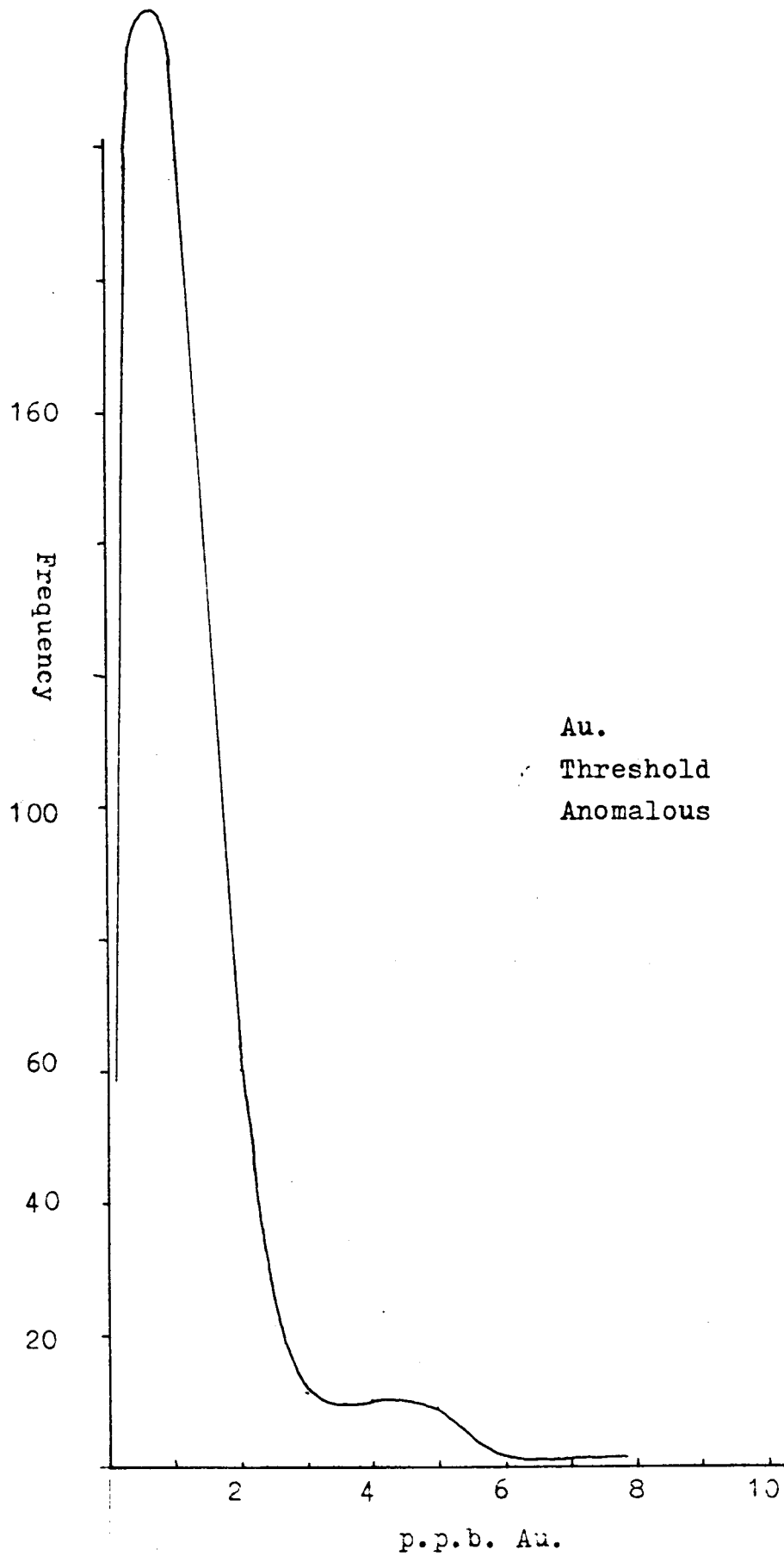
SAMPLE#	Mo PPM	Cu PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
BR 91+00S 9+50E	2	10	110	.1	7	1
BR 91+00S 9+75E	2	21	196	.2	11	1
BR 91+00S 10+00E	1	9	118	.1	10	1
BR 91+00S 10+25E p	1	17	166	.1	16	1
BR 91+00S 10+50E p	1	31	1	.1	5	1
BR 91+00S 10+75E	1	8	117	.1	5	1
BR 91+00S 11+00E	2	27	189	.6	70	1
BR 91+00S 11+25E p	3	28	223	.2	37	1
BR 91+00S 11+50E p	1	21	155	.1	8	1
BR 91+00S 11+75E p	1	8	72	.1	3	1
BR 91+00S 12+00E p	2	12	259	.1	8	1
BR 91+00S 12+25E p	3	15	272	.1	11	1
BR 91+00S 12+50E p	2	18	172	.1	9	1
BR 91+00S 12+75E p	1	17	239	.1	9	1
BR 91+00S 13+00E p	5	17	235	.2	13	1
BR 91+00S 13+25E p	2	11	215	.1	8	1
BR 91+00S 13+50E	2	21	168	.1	8	3
BR 91+00S 13+75E	1	14	114	.1	7	1
BR 91+00S 14+00E p	1	15	114	.1	5	1
BR 91+00S 14+25E p	1	11	80	.1	7	1
BR 91+00S 14+50E	1	13	103	.1	4	1
BR 91+00S 14+75E	3	10	115	.1	3	1
BR 91+00S 15+00E	1	10	55	.1	2	1
BR 92+00S 0+00E p	3	16	60	.2	5	2
BR 92+00S 0+25E p	12	22	112	.1	30	2
BR 92+00S 0+50E p	24	26	191	.5	79	2
BR 92+00S 0+75E p	15	57	191	1.1	304	4
BR 92+00S 1+00E p	15	40	234	.3	373	2
BR 92+00S 1+25E p	13	20	145	.3	97	2
BR 92+00S 1+50E p	15	18	134	.2	149	1
BR 92+00S 1+75E p	14	18	168	.1	153	1
BR 92+00S 2+00E p	13	27	277	.1	165	2
BR 92+00S 2+25E p	18	27	161	.1	124	2
BR 92+00S 2+50E p	44	33	164	.1	182	1
BR 92+00S 2+75E p	33	103	656	.6	363	9
BR 92+00S 3+00E p	41	43	242	.2	226	4
STD C/AU-S	21	58	132	6.9	43	51

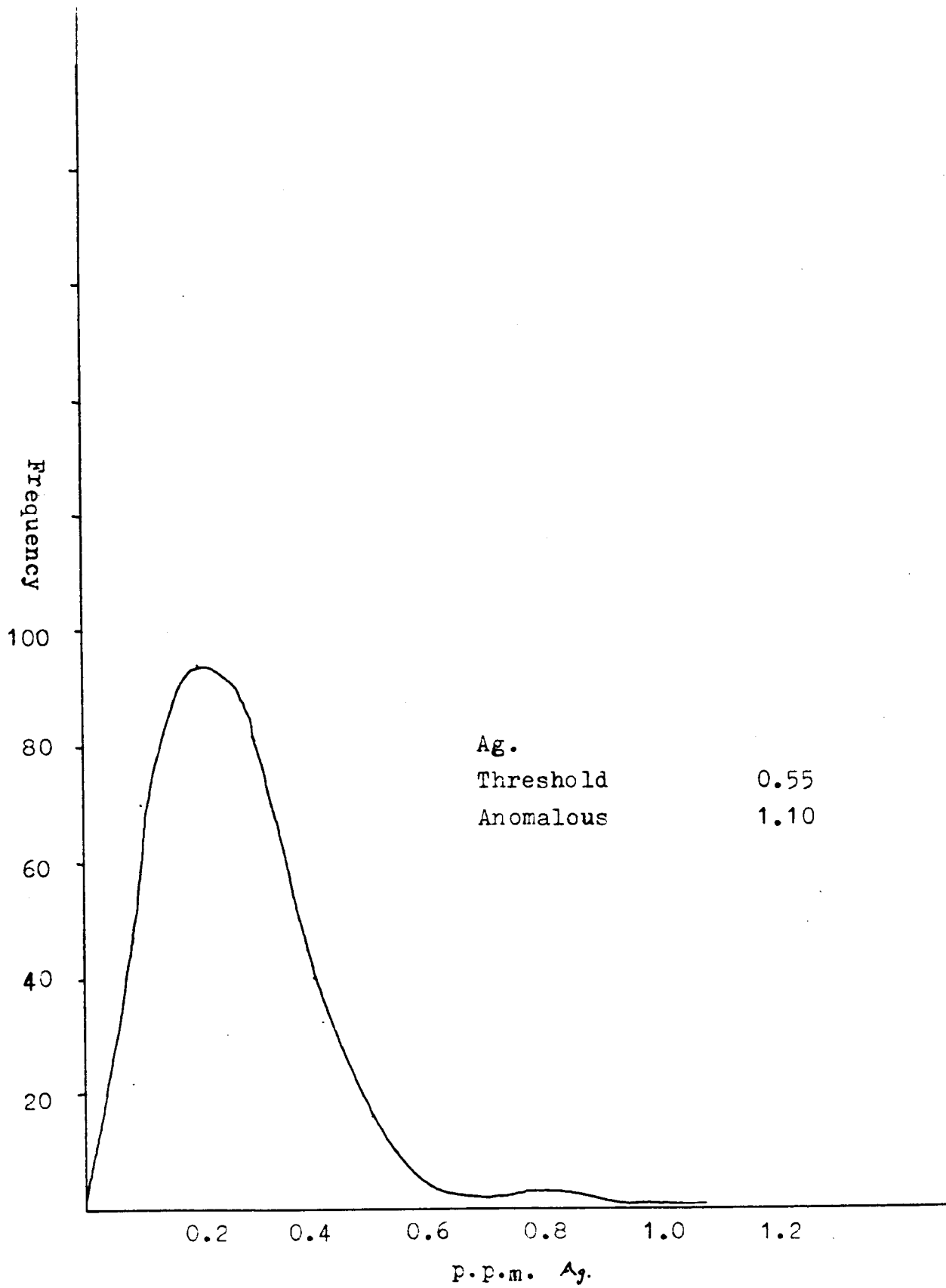
SAMPLE#		Mo PPM	Cu PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
BR 92+00S	3+25E P	22	43	246	.3	130	1
BR 92+00S	3+50E	17	19	158	.2	98	1
BR 92+00S	3+75E	16	7	162	.1	66	1
BR 92+00S	4+00E P	13	22	324	.1	148	2
BR 92+00S	4+25E	32	32	704	.4	577	1
BR 92+00S	4+50E	33	24	535	.4	261	1
BR 92+00S	4+75E	15	16	246	.2	108	1
BR 92+00S	5+00E P	10	14	279	.2	89	5
BR 92+00S	5+25E	13	12	204	.1	62	1
BR 92+00S	5+50E P	15	11	157	.2	126	1
BR 92+00S	5+75E P	8	15	166	.1	95	1
BR 92+00S	6+00E	56	29	354	.3	236	1
BR 92+50S	10+25S P	2	19	146	.1	11	2
BR 92+50S	10+50S	2	20	140	.1	16	1
BR 92+50S	10+75S P	2	8	50	.3	5	1
BR 92+50S	11+00S P	3	30	244	.3	19	1
BR 92+50S	11+25S	2	18	209	.4	6	1
BR 92+50S	11+50S P	1	11	145	.3	4	2
BR 92+50S	11+75S P	2	17	170	.2	15	1
BR 92+50S	12+00S	3	22	205	.3	7	1
BR 92+50S	12+25S	4	15	298	.4	7	1
BR 92+50S	12+50S	5	19	264	.1	3	2
BR 92+50S	12+75S	2	15	172	.4	10	1
BR 92+50S	13+00S	3	17	244	.3	13	106
BR 92+50S	13+50S P	2	8	92	.1	4	1
BR 92+50S	13+75S	1	9	83	.2	4	1
BR 92+50S	14+00S	4	13	216	.5	7	1
BR 92+50S	14+25S	2	12	197	.2	2	1
BR 92+50S	14+50S	3	16	160	.1	8	2
BR 92+50S	14+75S	1	15	92	.3	2	1
BR 92+50S	15+00S P	2	15	83	.2	5	1
BR 92+50S	15+25S P	13	23	374	.4	19	1
BR 92+50S	15+50S P	4	20	193	.2	4	2
BR 92+50S	15+75S P	3	27	195	.3	3	3
BR 92+50S	16+00S P	3	19	101	.2	14	1
BR 92+50S	16+25S	2	17	80	.1	2	1
BR 92+50S	16+50S P	4	11	131	.5	3	1
STD C/AU-S		20	57	131	6.9	35	48

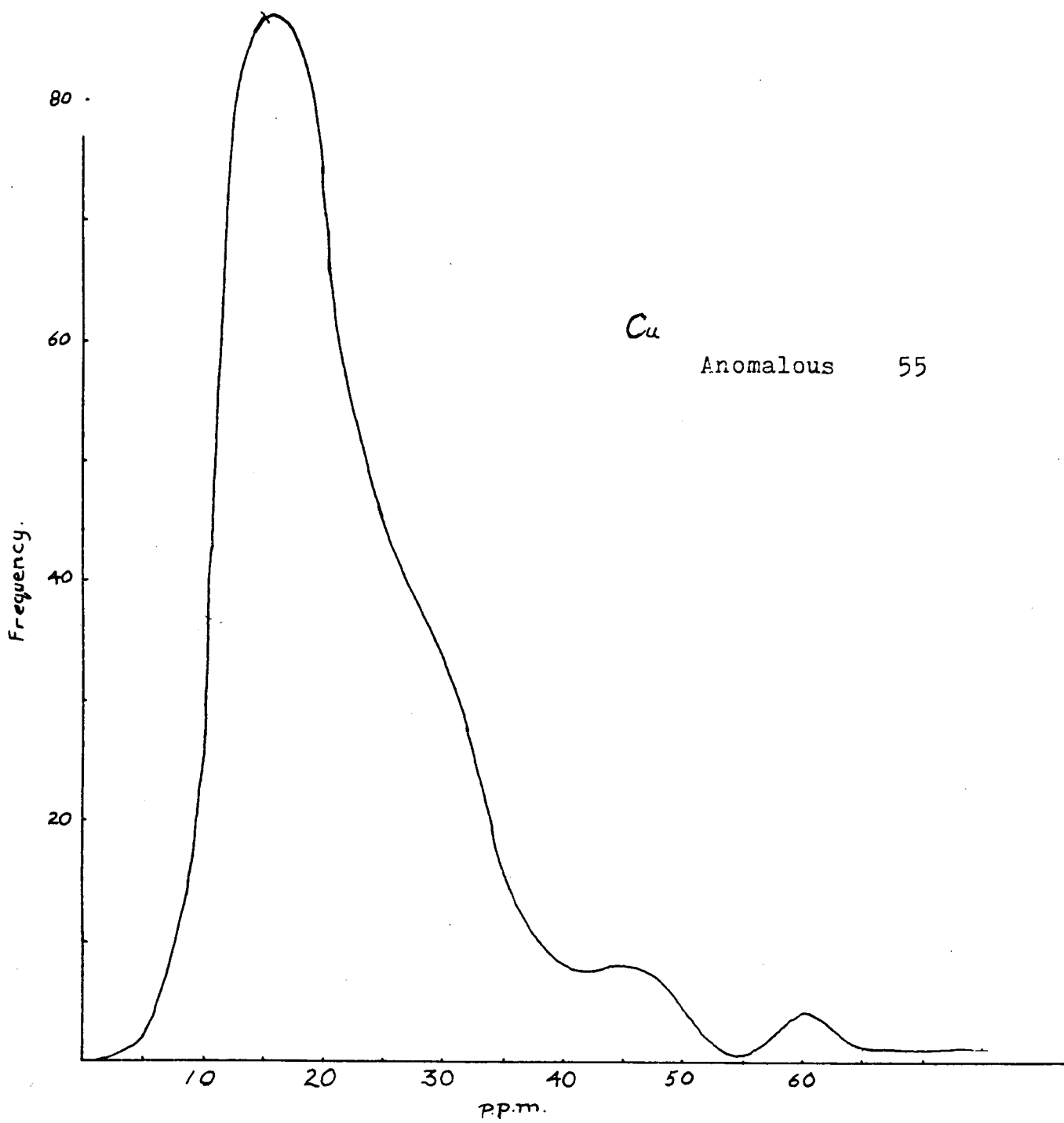
SAMPLE#	Mo PPM	Cu PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
BR 93+00S 0+00E	29	48	302	.8	237	1
BR 93+00S 0+25E P	14	17	127	.2	127	1
BR 93+00S 0+50E	24	40	390	.2	344	1
BR 93+00S 0+75E	4	13	84	.1	13	1
BR 93+00S 1+00E P	5	14	115	.1	26	2
BR 93+00S 1+25E P	19	34	302	.4	182	2
BR 93+00S 1+50E	19	48	489	.5	266	1
BR 93+00S 1+75E	24	70	383	.8	356	1
BR 93+00S 2+00E P	22	49	332	.2	208	1
BR 93+00S 2+25E P	47	58	323	.4	416	6
BR 93+00S 2+50E P	27	33	202	.2	232	3
BR 93+00S 2+75E	22	44	631	1.0	124	2
BR 93+00S 3+00E	5	7	46	.1	9	1
BR 93+00S 3+25E	4	13	97	.1	16	3
BR 93+00S 3+50E	4	12	132	.2	14	1
BR 93+00S 3+75E	5	41	146	.1	22	1
BR 93+00S 4+00E	4	22	104	.1	23	1
BR 93+00S 4+25E P	9	27	284	.2	51	1
BR 93+00S 4+50E	2	4	88	.1	21	1
BR 93+00S 4+75E	7	11	268	.1	64	1
BR 93+00S 5+00E P	30	32	655	1.7	877	2
BR 93+00S 5+25E	32	42	668	1.2	1398	10
BR 93+00S 5+50E	8	7	186	.1	108	1
BR 93+00S 5+75E	10	12	343	.3	220	1
BR 93+00S 6+00E	18	12	314	.5	561	1
BR 93+50S 9+00E	18	23	58	.2	1002	5
BR 93+50S 9+25E	23	16	38	1.2	497	1
BR 93+50S 9+50E	10	45	221	.2	53	1
BR 93+50S 9+75E	8	31	134	.3	39	1
BR 93+50S 10+00E	6	28	224	.3	101	1
BR 91+00S 3+50E	8	83	226	.5	735	12
STD C/AU-S	21	60	133	6.8	37	48

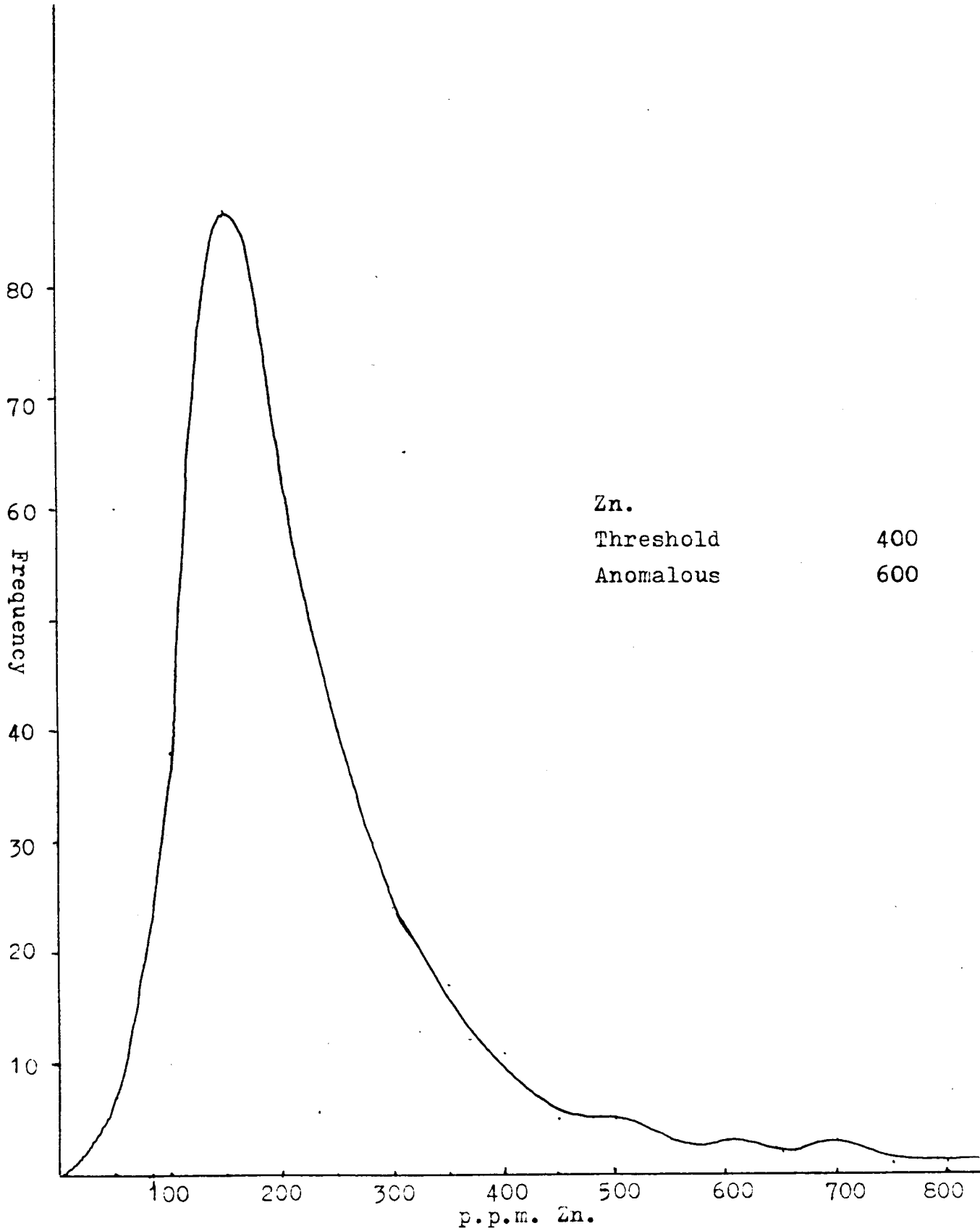


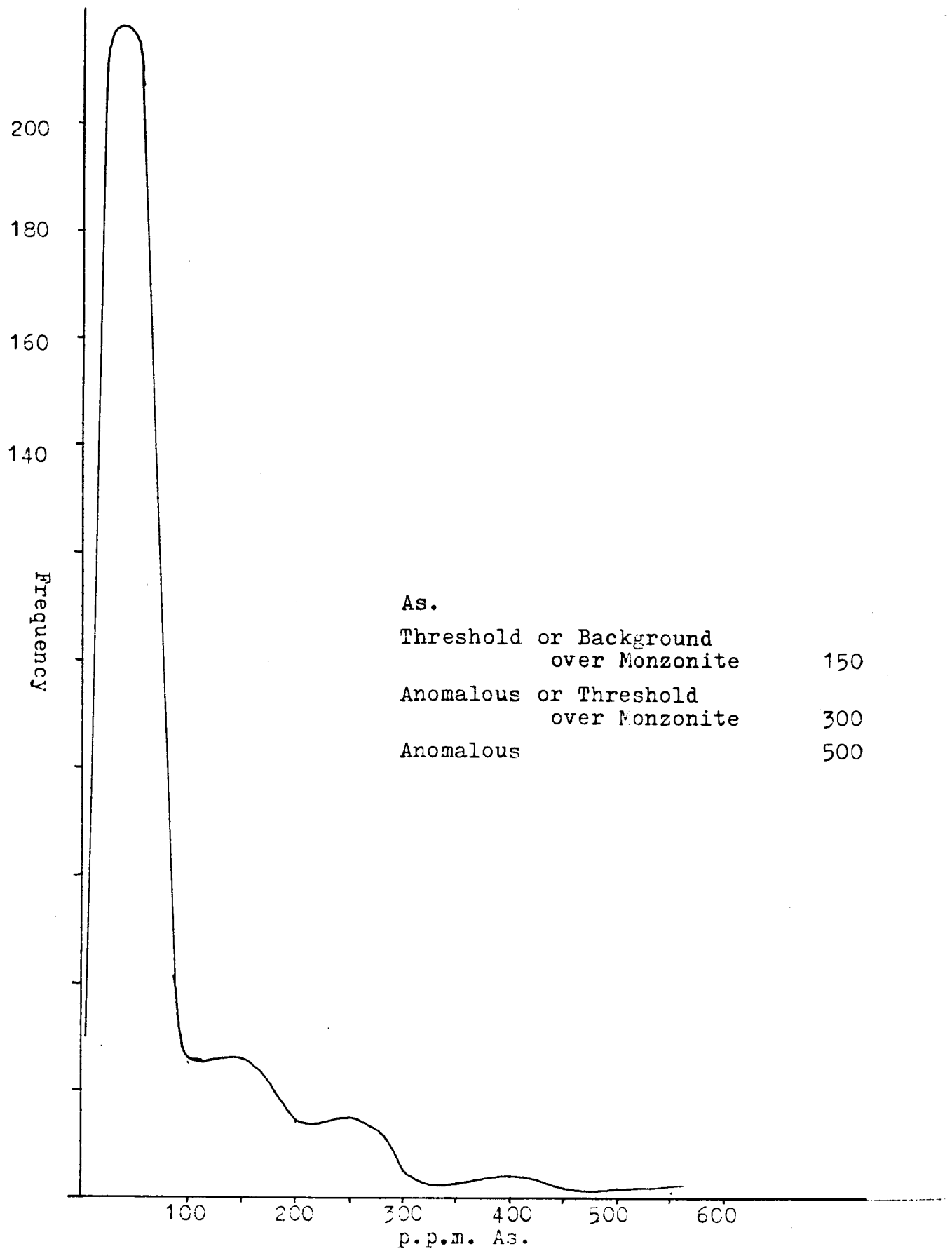
**APPENDIX B**  
**FREQUENCY DISTRIBUTION DIAGRAMS**

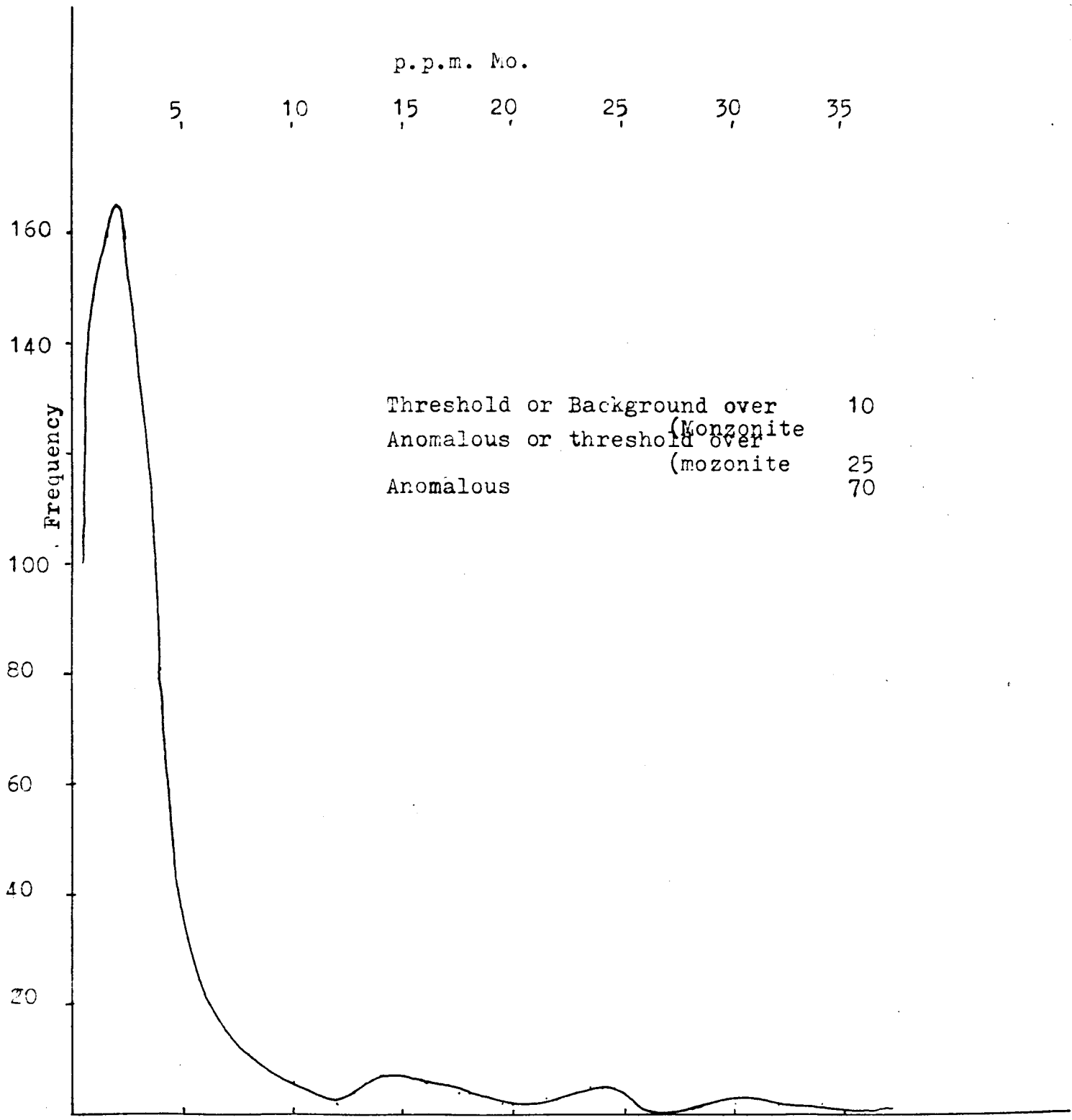












p.p.m. Mo.

5 10 15 20 25 30 35

160  
140  
100  
80  
60  
40  
20

Frequency

Threshold or Background over 10  
 Anomalous or threshold over (Konzonite)  
 Anomalous (mozonite) 25  
 70

**APPENDIX 'C'**

**QUALIFICATIONS OF SUPERVISOR AND AUTHOR OF THIS REPORT**

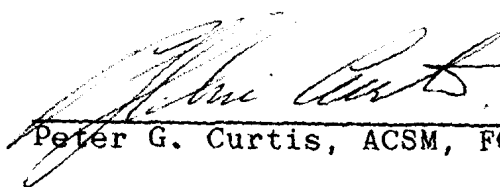



APPENDIX 'C'

QUALIFICATIONS OF SUPERVISOR AND AUTHOR OF THIS REPORT

I, Peter G. Curtis, DO HEREBY CERTIFY:

- (1) That I am a graduate of the Camborne School of Mines, Cornwall, England, with an additional diploma in Applied Geochemistry.
- (2) That I have been employed in mineral exploration in Canada since 1967 (10 years with ASARCO Exploration Company of Canada Ltd.).
- (3) That I am a Fellow of the Geological Association of Canada.

  
Peter G. Curtis, ACSM, FGAC



**APPENDIX D**  
**ITEMIZED COST STATEMENT**

## STATEMENT OF COSTS

### Supervision

P.G. Curtis, A.C.S.M. 28 days @ \$200 per diem	\$ 5,600
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### Assistant

A. Panchishin 27 days at \$100 per diem	2,700
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R. Brozer 27 days @ \$100 per diem	2,700
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Camp cost, including victuals	1,697
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### Rentals

Field-Camp equipment	945
Vehicle and Utility Trailer	205

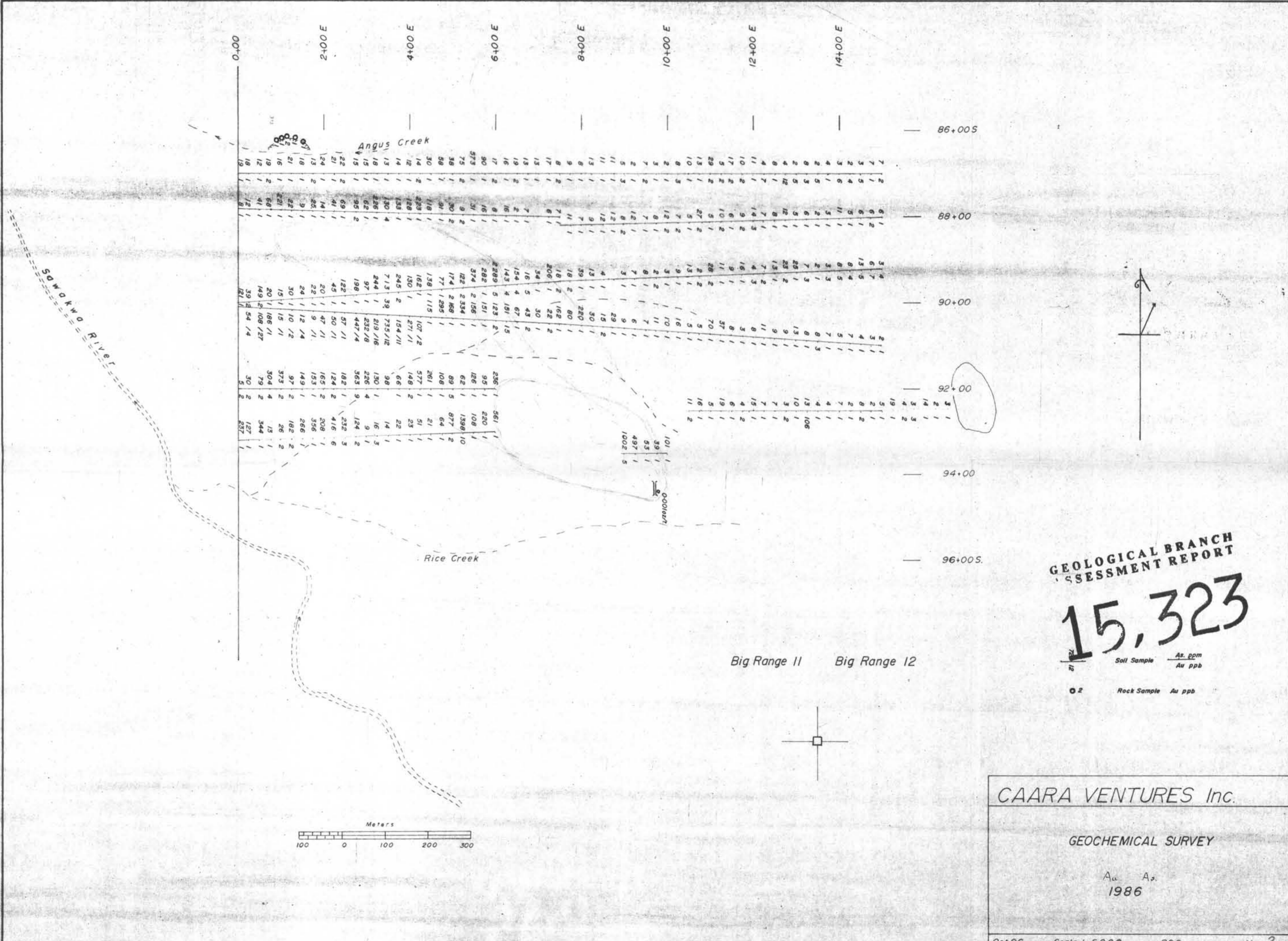
Helicopter	2,730
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Assaying	3,452
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Compilation of Report	750
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\$ 20,779
=====



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

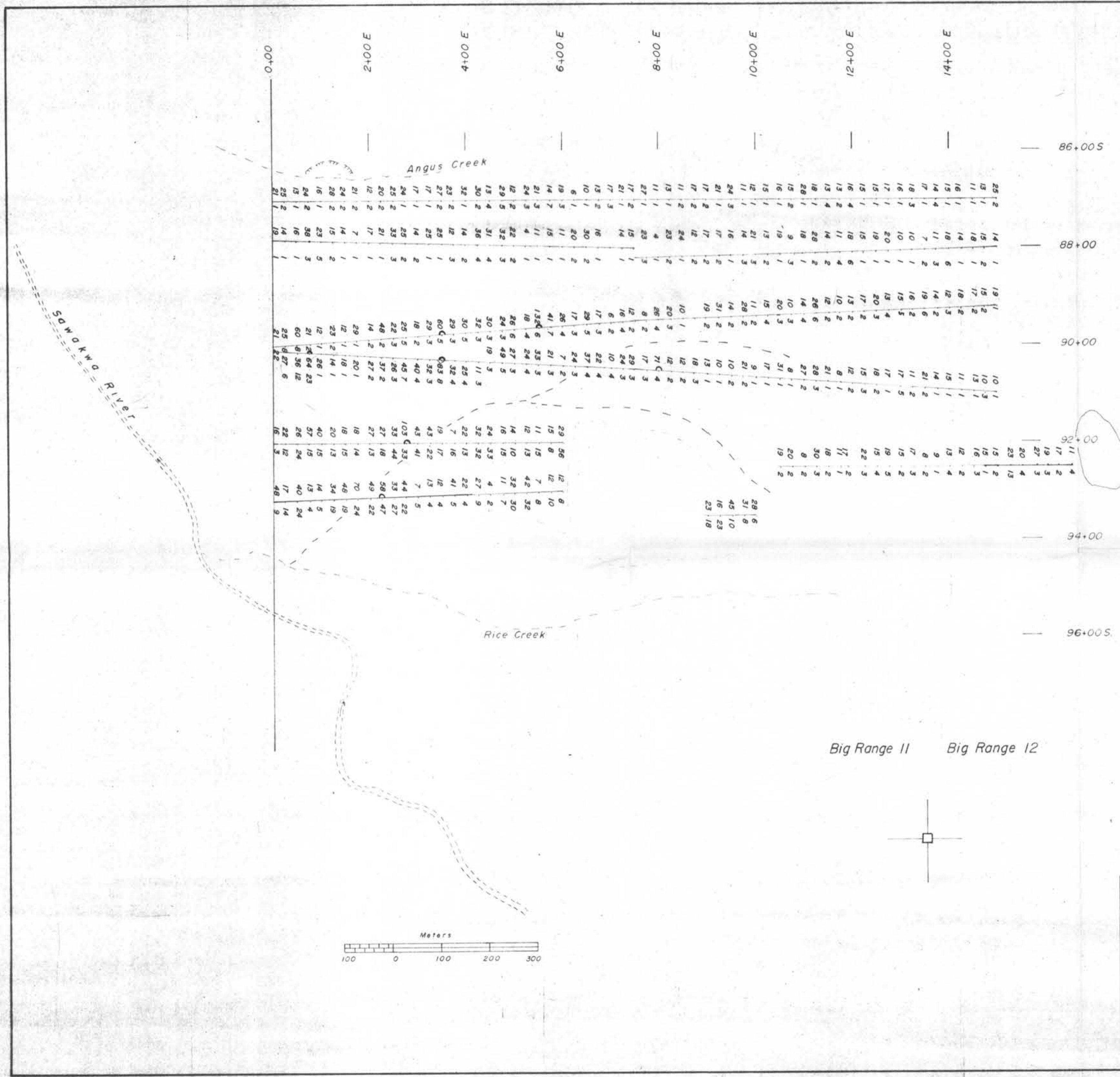
**15,323**

Soil Sample Au ppm  
Au ppb  
Rock Sample Au ppb

CAARA VENTURES Inc.

GEOCHEMICAL SURVEY

Au As.  
1986



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,323**  
ppm

Big Range 11    Big Range 12

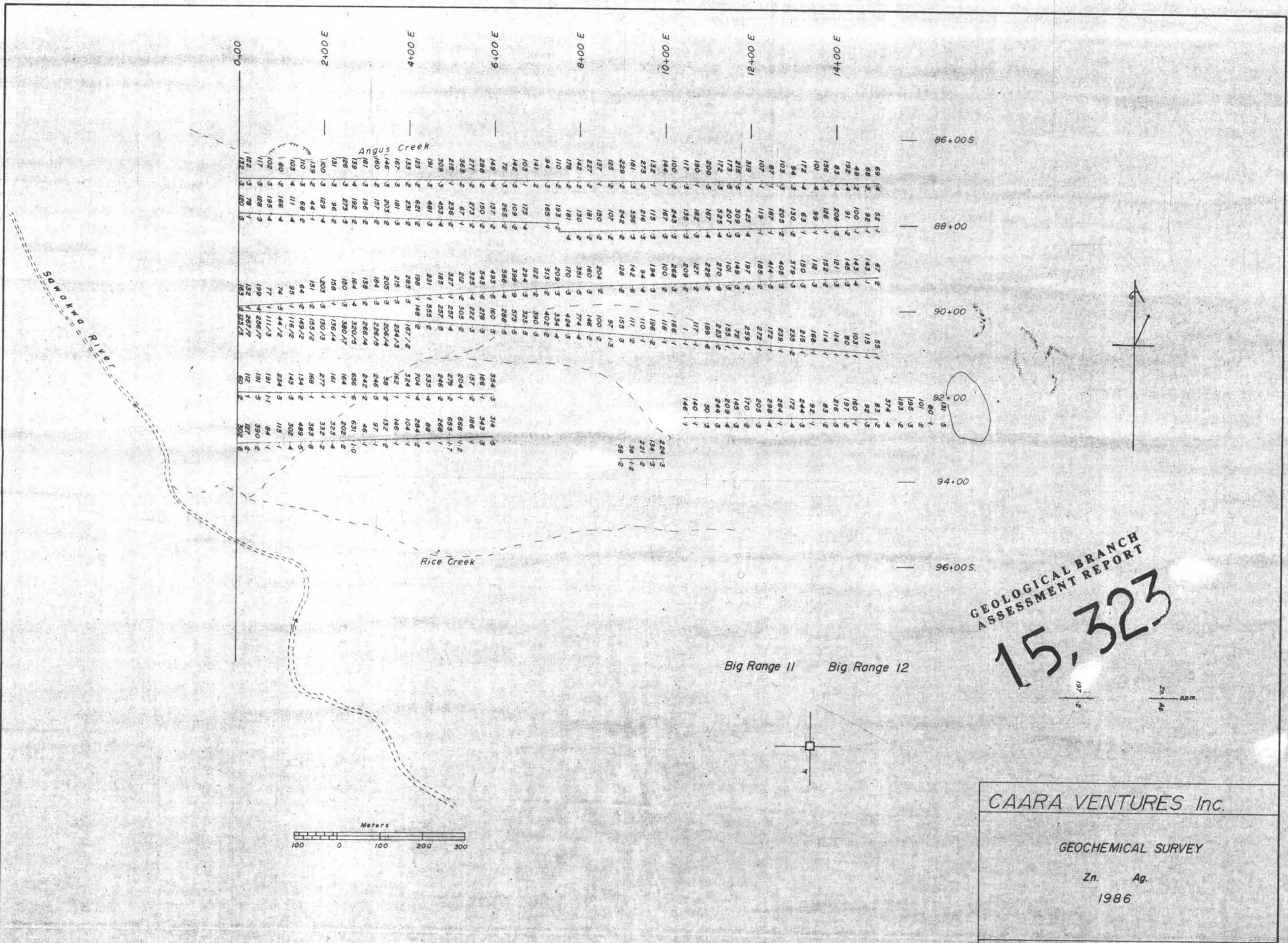
CAARA VENTURES Inc.

GEOCHEMICAL SURVEY

Cu Mo

1986

Oct 86    Scale 1:5000    PGC    Map 2



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

15,323

Zn 197  
Ag 44

Big Range 11      Big Range 12

CAARA VENTURES Inc.

GEOCHEMICAL SURVEY

Zn    Ag

1986

Oct 86      Scale 1:5000      PGC      Map 2



TIMBERLINE 3

BIG RANGE 9

6+00

5+00

4+00

3+00

2+00

1+00

0+00

36	43	27	51	56	130	18	36	41	20	146
59	48	38	53	49	80	31	59	11	11	44
53	96	31	54	28	59	39	69	29	44	
42	83	26	50	28	50	32	47	29	69	
31	64	23	67	21	50	30	52	25	49	
11	11	11	74	33	58	30	53	30	42	
64	14	18	26	57	58	75	25	49		
30	38	50	55	20	29	47	83	24	38	
11	13	26	41	32	42	23	8	28	74	
15	25	20	27	37	46	31	24	22	44	
18	29	21	27	16	27	26	32	23	38	
63	78	9	18	7	11	12	11	22	50	
39	63	23	43	28	39	14	18	10	10	
27	39	37	69	50	44	28	44			
24	52	24	57	24	57	23	25	7	17	
25	49	24	34	34	34	35	63	18	22	
24	22	23	36	24	22	27	11	19	36	
24	26	24	36	49	36	13	10	20	26	
						56	13	27	46	
						15	21	37	25	
						35	42	28	34	
						60	77	7	33	
						32	44	7	18	
						26	38	51	49	
						56	62	60	22	
						43	84	50	22	
						22	50	104	89	
							60	105		
							19	67		
							19	47		
							29	71		
							28	59		

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

15,323  
Soil Sample Line ppm  
Rock Sample ppm

TIMBER WOLF 3

CAARA VENTURES Inc.

BIG RANGE GROUPS

GEOCHEMICAL SURVEY

Cu. Zn.

Oct 86

Scale 1:5,000

PGC

Map 3



TIMBERLINE 3

BIG RANGE 9

6+00

5+00

4+00

3+00

2+00

1+00

0+00

50+00W

48+00W

46+00W

TIMBER WOLF 3

80 40 0 100 200  
Metres

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

15,323

Rim of Cirque

Soil Sample Line ppm

40/4 Rock Sample As/Au ppm

CAARA VENTURES Inc.

BIG RANGE GROUPS

GEOCHEMICAL SURVEY

As. Au.

Oct 86 Scale 1:5,000 PGC Map 3





TIMBERLINE 3

BIG RANGE 9

6+00

5+00

4+00

3+00

2+00

1+00

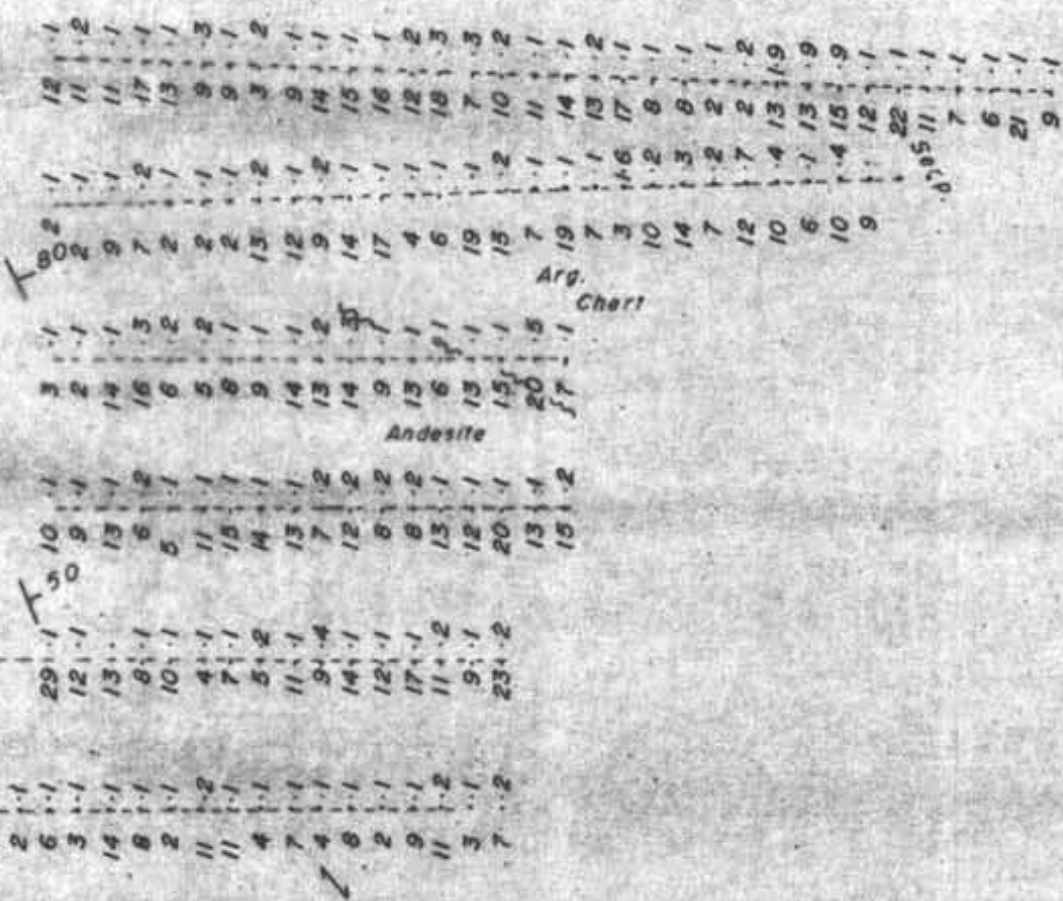
0+00

50+00W

48+00W

46+00W

TIMBER WOLF 3



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

15,323

Rock Sample ppm.  
Soil Sample Line ppm.  
Pb Ag



CAARA VENTURES Inc.

BIG RANGE GROUPS

GEOCHEMICAL SURVEY

Pb Ag