MAX PROPERTY

Fort St James, British Columbia

NTS: 93K/16E

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Fort St James, British Columbia

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GEOLOGY AND GEOCHEMISTRY - CENTRAL GRID AREA
1991

Claims: Max 1-29
Grif 1-2
GR 3-8

Owners: A A Halleran, A D Halleran, U Schmidt

Operators: Rio Algom Exploration Inc

W Donaldson

November 1991

SUMMARY

Between August 14 and September 1 1991, at a cost of $23,205.00, a programme of detailed rock chip sampling, soil profiling and geological mapping was carried out within the Central Grid area of the MAX Option. This work was designed to determine the cause of a broad zone of anomalous copper and gold in soil found by the 1990 grid soil sampling programme.

Geological mapping found the Central Grid area to contain small multi-phase alkalic plugs, stocks and dykes intruding Takla Group andesitic flows and tuffs. Weak propylitic and carbonate alteration, as well as disseminated pyrite and magnetite, are widespread.

Detailed rock chip sampling, in conjunction with profile soil sampling, imply the copper and gold-in-soil anomalies are sourced from localized copper and gold bearing shear and vein structures.

The absence of intense propylitic and potassic alteration in conjunction with the lack of widespread copper mineralization make it unlikely that a porphyry copper gold deposit exists within the Central Grid area. For this reason, no further work is recommended in the Cental Grid area.

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1 INTRODUCTION

Soil sampling and geological mapping of the Central Grid area of the MAX Option in 1990 outlined a broad zone of elevated and anomalous copper and gold-in-soil overlying propylitically altered andesitic volcanic rocks and diorite. Encouraged by the 1990 results, a programme of detailed geological mapping, profile soil and rock sampling, designed to evaluate the potential of the Central Grid area for porphyry copper and gold mineralization, was carried out from August 14 to September 1 1991. This report discusses the results of the 1991 programme and makes recommendations.

1.1 Location, Access of Physiography

The claims are situated 57km north of Fort St James, British Columbia in the Omineca Mining Division. Geographic coordinates of the centre of the property are 54° 56'N latitude and 124° 02'W longitude (Map 1).

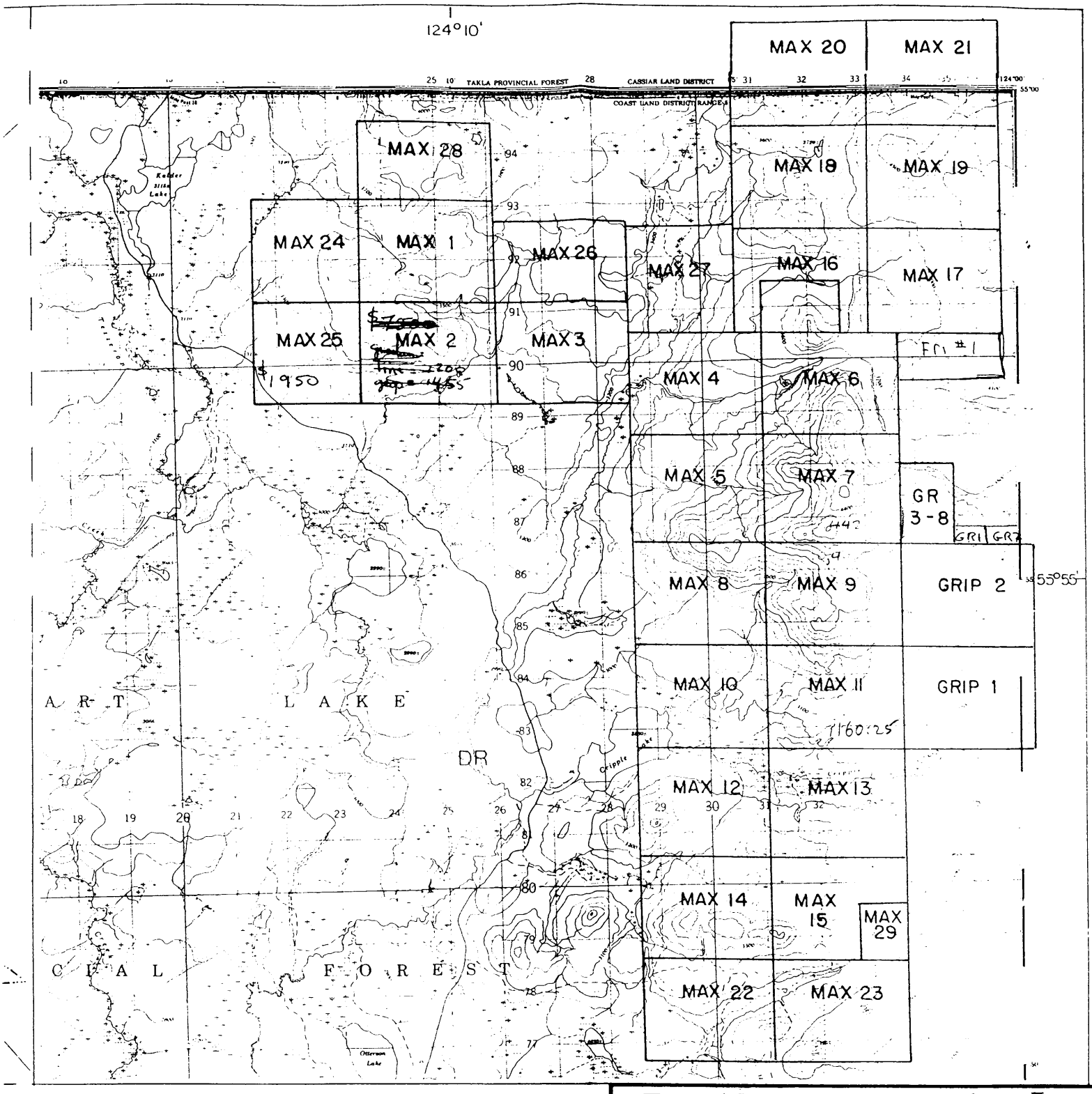
Access to the property is by two wheel drive vehicle via the Germansen Road from Fort St James and two major branch logging roads which pass through the north and south ends of the property. A third road, north of Cripple Lake, extends to the western claim boundary.

Recent clear cut logging in the north, west and south claims areas has afforded easy access to these portions of the claims. However, the central and eastern parts of the claims require helicopter access.

The property lies near the northern boundary of the Fraser Basin, a subdivision of the Interior Plateau. Typically, the Fraser Basin is characterized by low relief with flat to rolling surfaces which are, for the most part, lower than 900m in elevation (asl).

Elevations on the property range from 875 to 1,370 metres asl. Bedrock exposure is variable, though outcrops are for the most part limited to elevations greater than 1,200m asl.

Where clear cut logging has not removed the trees, vegetation consists of thick growths of spruce, fir and pine interspersed with open swampy areas along the main drainage.



N.T.S. 93N-1E, 93K-16E

SCALE 1:100,000

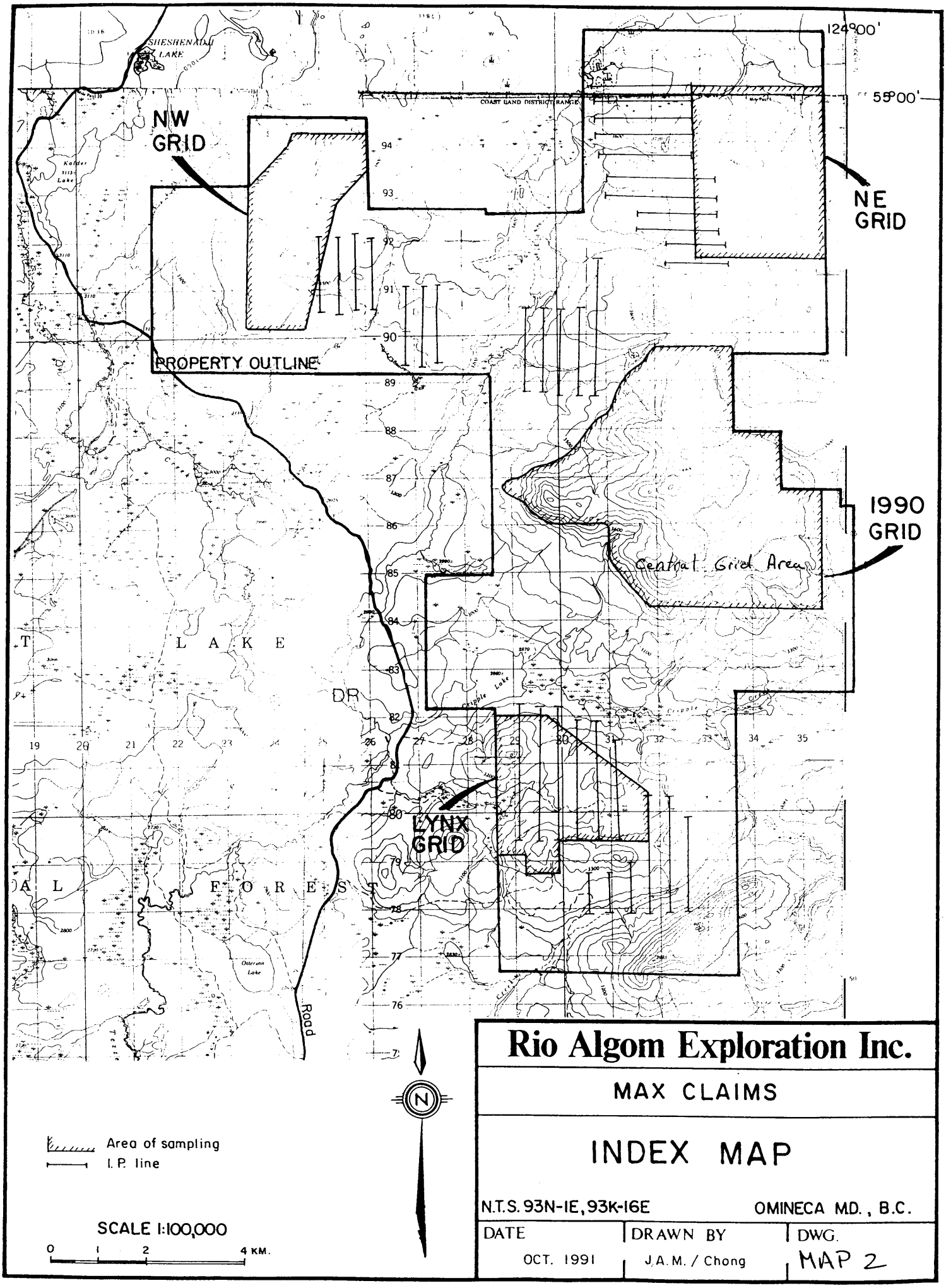
0 1 2 4 8 Km.

Rio Algom Exploration Inc.

MAX CLAIMS

LOCATION MAP

DATE	DRAWN BY	DWG
OCT. 1990	J.M. / Chong	1



Rio Algom Exploration Inc.

MAX CLAIMS

INDEX MAP

N.T.S. 93N-1E, 93K-16E OMINECA MD., B.C.

DATE	DRAWN BY	DWG.
OCT. 1991	J.A.M. / Chong	MAP 2

1.2 Property

The MAX property comprises the MAX 1-29, Grif 1 and 2, GR 3 to 8 and Sint 1 mineral claims totalling 575 units. The claims, which are owned jointly by Uwe Schmidt, Arthur A Halleran and Arthur A D Halleran, are held under option by City Resources (Canada) Limited. Under the terms of a joint venture agreement with City Resources, Rio Algom Exploration has a right to earn up to 70% of City Resources' interest in the property.

Details of the claims are as follows:

Claim Name	Units	Record Number	Date of Record
MAX 1	20	239224	August 13 1986
MAX 2	20	239225	August 13 1986
MAX 3	20	239226	August 13 1986
MAX 4	20	239227	August 13 1986
MAX 5	20	239228	August 13 1986
MAX 6	20	239229	August 13 1986
MAX 7	20	239230	August 13 1986
MAX 8	20	239231	August 13 1986
MAX 9	20	239232	August 13 1986
MAX 10	20	239233	August 13 1986
MAX 11	20	239234	August 13 1986
MAX 12	20	239235	August 13 1986
MAX 13	20	230236	August 13 1986
MAX 14	20	239237	August 13 1986
MAX 15	20	239238	August 13 1986
MAX 16	20	239581	August 13 1987
MAX 17	20	239582	August 13 1987
MAX 18	20	239583	August 13 1987
MAX 19	20	239584	August 13 1987
MAX 20	20	239585	August 13 1987
MAX 21	20	239586	August 13 1987
MAX 22	20	242076	May 15 1990
MAX 23	20	242077	May 16 1990
MAX 24	16	242078	May 18 1990
MAX 25	16	242079	May 20 1990

MAX 26	15	242080	May 17 1990
MAX 27	16	242081	May 19 1990
MAX 28	15	12416	August 18 1990
MAX 29	6	242082	May 17 1990
Fri #1	8	242456	July 19 1990
GR 1	1	242257	July 26 1990
GR 2	1	242458	July 26 1990
GR 3	1	240539	April 16 1989
GR 4	1	240540	April 16 1989
GR 5	1	240541	April 16 1989
GR 6	1	240542	April 16 1989
GR 7	1	240543	April 16 1989
GR 8	1	240544	April 16 1989
GRIF 1	20	239276	September 15 1986
GRIF 2	2	239277	September 15 1986
Sint 1	20	241909	April 20 1990

All in the Omineca Mining Division, British Columbia.

2 GEOLOGY

2.1 Regional Geology

The property occurs within the Quesnel Trough, a subdivision of the Intermontane tectonic belt. The Quesnel Trough is fault bounded on the west by Palaeozoic rocks of the Pinchi Belt and on the east by mid to upper Palaeozoic rocks of the Slide Mountain Group.

The Quesnel Trough was the site of extensive island-arc volcanic and sedimentary deposition from late Triassic to early Jurassic time. The base of Quesnel Trough is an Upper Triassic black argillite unit. This unit is exposed near the eastern margin of the trough where it commonly overlies ophiolitic rocks of the Slide Mountain Group. The basal black argillite is overlain by a series of augite porphyry flows, breccias and minor argillites. These rocks are overlain by a second sequence of argillites and volcaniclastic rocks of Upper Triassic to Lower Jurassic age. Subaerial volcaniclastics in the geologic record indicate that volcanic centres in the trough emerged in early Jurassic time. This is postulated to have occurred in conjunction with the rise and deformation of Omineca Crystalline Belt rocks to the east.

Block faulting and tilting are the dominant structural styles in the belt. Faults trend in a northwest and northeast direction. Folding is restricted to the eastern margin of the belt near its structural boundary with the Omineca Crystalline Belt.

Two major episodes of granitic intrusion are recognized along a northwest trending belt slightly oblique to Quesnel Trough. The intrusive events cluster around 200 and 100 million year ages. Gold and copper-gold deposits have an affinity for 200 million year old alkalic plutons and Triassic-Jurassic volcanic rocks. Molybdenum deposits, on the other hand, are associated with the 100 million year intrusive event.

The area around the property was remapped in 1990 by J L Nelson and others of the B C Geological Survey Branch and released as Open File 1991-3. Nelson divided the Takla Group into four informal formations, the Rainbow Creek, Inzana Lake, Witch Lake and Chuchi Lake formations. Two of these formations, the Inzana Lake and Witch Lake, underlie the MAX property.

2.2 Geology - Central Grid Area

The objective of the 1991 work programme was to assess the copper and gold anomalies present in the Central Grid region of the MAX Option for porphyry copper-gold mineralization. To this end, prospecting and detailed lithological and soil sampling within the soil anomalies were carried out. In the process, outcrop locations were plotted and geological data noted.

Detailed mapping in 1991 has further subdivided both volcanic and intrusive units mapped by Northwest Geological in 1990. As a result of the 1991 mapping, rock types are differentiated as described below:

Andesites (Unit 1)

1a: Within the grid area, the Takla Group is dominated by grey-green, fine-grain andesitic flows, with up to 3% disseminated pyrite, up to 2% disseminated cubes of magnetite and a 1-2% epidote alteration overprint.

1b: Of lesser extent is an andesitic augite porphyry flow that is dark green, with up to 25% euhedral augite phenocrysts set in a fine grain, 1% chloritic-epidote altered matrix. Mineralization may include fine disseminated pyrite (to 4%) and fine disseminated cubes of magnetite (to 1%).

The following Takla flows and tuffs are not abundant.

1c: The plagioclase-augite porphyry flow is dark green, with 10% augite phenocrysts and 10% well-defined plagioclase laths set in a fine-grain matrix, weakly overprinted by epidote.

1d: The hornblende porphyry flow has 2mm thin hornblende laths set in a light green, weakly epidote-altered, fine grain matrix. Mineralization consists of 2% fine disseminated cubes of magnetite.

1e: The hornblende-plagioclase porphyry flow is a green-white colour, with 2-4mm hornblende and plagioclase laths set in a fine-grain matrix. Mineralization consists of up to 5% fine disseminated pyrite. There is weak sauceritization of the feldspar laths.

1f: A crowded hornblende and pyroxene(?) porphyry flow consists of 50% 2-4 mm mafic phenocryst set in a dark green, fine-grain matrix. 1% patchy epidote may be present. Mineralization consists of up to 3% disseminated pyrite and up to 2% disseminated cubes of magnetite.

1g: One outcrop of laminated tuff was observed at 148+00 N, 139+00 E. The laminated tuff is grey-brown, fine grain and laminated. The outcrop is moderately silicified and there is no visible mineralization.

1h: An isolated outcrop of volcanic tuff was observed at 147+00 N, 139+70 E. The volcanic tuff is a grey colour, and fine grain, with possible(?) faint laminations. Mineralization consisted of 0.5% disseminated pyrite.

Intrusives (Unit 2)

2a: Diorite is the most prevalent intrusive rock found. It occurs as small plugs and stocks within the MAX grid. The diorite is a white and black colour, medium-grained, equigranular assemblage of feldspar and chloritized hornblende. The matrix is generally overprinted by 1-3% secondary epidote alteration. Disseminated cubes of magnetite average 2%.

2b: The biotite diorite is identical to the diorite described above, except that 2-3 mm books of biotite (comprising 10% of the rock) occur.

2c: The hornblende diorite is also identical to the first diorite described above. Ten percent of the rock consists of 2 mm laths of hornblende and there is 2% epidote alteration.

2d: The plagioclase porphyry diorite is light grey, with 2-4mm plagioclase laths set in a fine-grain diorite matrix. Disseminated pyrite is up to 5%. Disseminated magnetite averages 2%.

2e: The megacrystic diorite is a coarse-grained (4-6mm) equivalent to the first diorite, described above.

2f: The monzodiorite is a light grey, medium-grained, equigranular rock composed of plagioclase, potassic feldspar and chloritized hornblende. One percent semi-pervasive epidote alteration occurs on the plagioclase crystals.

Disseminated cubes of magnetite average up to 3%. Trace pyrite occurs throughout.

2g: The biotite syenite is a light grey-pink colour, with medium-grained (2-3 mm) potassic feldspar crystals and 8% biotite phenocrysts forming the rock matrix. Disseminated cubes of magnetite average 1%.

2h: The gabbro is green-black, with a mottled texture and glassy appearance. There is no visible mineralization and only minor carbonate veining.

2i: A pyroxenite was observed at grid location 106+00 N, 131+55 E. It is dark green, with abundant 2-4mm pyroxene phenocrysts. The rock has 1% chloritic alteration and 1% disseminated cubes of magnetite.

Structure

Structural deformation is not present in either the volcanic or intrusive rocks. Intrusive and volcanic contacts appear to be passive as fracturing and brecciation is not evident. Crosscutting relationships are limited to carbonate and epidote veining, and intrusive dykes.

Alteration and Mineralization

Weak porphyry-style alteration occurs in both the volcanic and intrusive rocks, and consists of propylitic and minor carbonate alteration.

Propylitic alteration occurs in the volcanics and intrusives. In the volcanic units, propylitic alteration consists of up to 3% pervasive epidote overprint across the matrix. Mafic minerals may have up to 2% chloritization. Up to 7% pyrite is associated with propylitized volcanic rocks.

Propylitic alteration in the intrusives consists of up to 3% semi-pervasive epidote overprint and up to 2% sauceritization of plagioclase phenocrysts. Up to 3% disseminated pyrite is associated with propylitized intrusives.

Minor carbonate alteration occurs in some of the fine-grain volcanics. The mafic minerals are replaced by carbonate resulting in up to 10% pervasive carbonate alteration.

Mineralization in volcanic rocks consists of disseminated pyrite and disseminated cubes of magnetite. In the majority of volcanics, pyrite averages 1-3% and magnetite to 2%.

Intrusive rocks contain 2-3% disseminated cubes of magnetite and trace to 1% fine disseminated pyrite.

3 GEOCHEMISTRY

Soil sampling was conducted to follow-up anomalous values obtained from a soil sample programme conducted by Rio Algom Exploration Inc (McClintock, 1990). All values over 200 ppm copper and 40 ppb gold were followed up.

Sampling consisted of re-sampling the B-horizon (20-30 cm depth) and, from the same hole, a sample at 60-80 cm depth. Soil assay sheets (in the appendix) identify each sample with the prefix 'B' and 'PB' (pit bottom), respectively. In some instances, where due to subcrop, only one sample could be collected from a depth of 5-30 cm, the sample was identified as being 'PB'. A 'B' sample was obviously not collected.

Values have been plotted on the 1:5000 soil geochemical result map, appearing in the appendix.

A review of the soil geochemical results indicates that approximately 70% of the anomalies probably represent the concentration of elements in the B-horizon (after being leached from the A-horizon). This is apparent when the B-horizon analysis is higher than the PB-horizon assay. Another possibility is that an element train extends from a mineralized vein and sampling of the B-horizon intersects it, while the lower PB-horizon is not anomalous. Detailed prospecting and rock sampling (over anomalous in-situ soil geochemical locations) indicated only background levels of gold and copper.

There is only one widespread anomaly (Copper Anomaly I) on the property. The copper values in this anomaly occur over the intrusive (213-635 ppm), with one very high value of 1464 ppm copper. The anomalous numbers do not extend into the volcanics that bound either side of the intrusive.

Aside from Copper Anomaly I, there are only isolated point anomalies that range from 205-792 ppm. Almost all of these occur within the intrusive, with only a couple of copper anomalies in the volcanics.

On the MAX property, gold anomalies do not occur in a widespread anomalous area, only as isolated point anomalies. Using 40 ppb gold as a cutoff, the anomalies range from 41- 99 ppb.

Two very anomalous gold assays were received. At 125+00 N, 136+00 E, the B/PB horizon gave 611/3633 ppb gold, respectively. At 137+00 N, 131+00 E, the B/PB horizon gave 5/395 ppb gold, respectively. Outcrop sampling, in the vicinity of the former anomaly resulted in background gold levels only. It is the authors opinion that these two anomalies are the result of a possible subcrop with a narrow shear zone or vein structure in it.

Arsenic, lead, zinc and molybdenum are at or just above background levels, and are not considered anomalous, except for two exceptions. At 106+00 N, 143+00 E, the B/PB horizon lead anomaly is 24/150 ppm. At 145+00 N, 140+00 E, the B/PB horizon arsenic anomaly is 110/150 ppm (with associated anomalous copper, 300/452 ppm, and molybdenum, 9/16 ppm).

Rock Sampling

Of the 264 rock samples collected, 15 were anomalous in copper and three were anomalous in gold.

The anomalous copper samples ranged from 210-645 ppm copper with one high value of 1620 ppm copper at 131+00 N, 141+50 E. With the exception of two - 243 ppm copper anomalies in the southwest corner (that are in volcanics), the copper anomalies are restricted to the intrusive.

Two of the three gold anomalies (49, 75 ppb) occur in the intrusive, and the third, 44 ppb gold, in a volcanic flow.

The copper anomalies in rock samples correlate with the anomalous, in-place copper soil geochemical results over Copper Anomaly I.

4 CONCLUSIONS

On the MAX property, small multi-phase alkalic plugs, stocks and dykes have intruded Takla Group andesitic flows and tuffs. There is widespread, albeit weak, porphyry-style alteration and mineralization throughout consisting of propylitic and carbonate alteration. Mineralization includes disseminated pyrite and magnetite.

Follow-up soil sampling in 1991 has distinguished between in situ anomalies and those caused by either concentration in the B-horizon (from the A-horizon) or due to an element train from a mineralized vein, thus eliminating several questionable anomalies from the 1990 soil program. Two high-value gold anomalies are the result of a subcrop with localized shearing or vein structures.

Rock sampling provided several copper anomalies, although for the most part, these anomalies are isolated and low grade. Detailed rock chip sampling over Copper Anomaly I failed to identify a possible porphyry target for further work. This soil anomaly is probably the result of mineralized, local shears or veins crosscutting the subcrop.

5 RECOMMENDATIONS

Based on a lack of encouraging results from the 1991 soil sample follow-up, and detailed rock sampling program, it is the authors opinion that further work is not warranted on this area of the MAX claim group.

6 REFERENCES

Dawson, J M (1988)	Report on the MAX Property, Omineca Mining Division, British Columbia. Private report to United Pacific Gold Limited.
Deighton, J R (1987)	Memorandum on MAX Property Examination. Private report to United Pacific Gold Limited.
Nelson, J; Bellefontaine, K; K; MacLean, M; (1991)	Regional Geological Mapping near Mount Milligan Green, Copper-Gold Deposit, BCDM Geological Field Work 1990 -Paper 1991-1.
Nelson, J; Bellefontaine, K; Green, K; MacLean, M; (1991)	Geology and Mineral Potential of Wittsichica Creek and Tezzeron Creek Map Areas. BCDM Open File 1991-3.
Schmidt, U (1987)	Summary Report on the MAX Property, Omineca Mining Division. Private report to United Pacific Gold Limited.
Schmidt, U (1988)	Report on the Geology and Geochemistry of the MAX Property, Omineca Mining Division. Private report to United Pacific Gold Limited.

7 STATEMENT OF QUALIFICATIONS

I, William Stratton Donaldson, do hereby certify that:

1 I am a graduate of the Carleton University in Ottawa, Ontario with an Honours Bachelor of Science degree (1985) in Geology.

2 I have practised my profession as a geologist continually since graduation.

3 I currently reside at 1139 Edgeland Place, Ottawa, Ontario.

4 I am temporarily employed as a geologist with Rio Algom Exploration Inc with an office at 1650, 609 Granville Street, Vancouver, British Columbia.

5 I personally assisted in the supervision of the geological and geochemical programmes conducted on the MAX Claims during August 1991.

William Stratton Donaldson
November 1991

STATEMENT OF QUALIFICATIONS

I, William Stratton Donaldson, do hereby certify that:

1 I am a graduate student of Carleton University in Ottawa, Ontario with an Honours Bachelor of Science degree (1985) in Geology.

2 I have practised my profession as a geologist continually since graduation.

3 I currently reside at 1139 Edgeland Place, Ottawa, Ontario.

4 I am temporarily employed as a Geologist with Rio Algom Exploration Inc with and office at 1650 - 609 Granville Street, Vancouver, British Columbia.

5 I personally assisted in the supervision of the geological and geochemical programmes conducted on the MAX claims during August, 1991.

Bill Donaldson

William Stratton Donaldson
November 1991

APPENDIX I - COST STATEMENT

APPENDIX I - COST STATEMENT

Labour: - August 14 to September 1

J A McClintock - 1 day @ $300/day	$ 300.00	
W Donaldson - 18 days @ $200/day	3,600.00	
G Mowatt - 18 days @ $200/day	3,600.00	
		$7,500.00

Transportation:

Truck - 18 days @ $75/day	1,350.00	
Helicopter - Northern Mountain Helicopters		
6.5 hours @ $625/hour	4,062.50	
		5,412.50

Room and Board: 36 man days @ $50/day **1,800.00**

Consumables: Flagging, sample bags **150.00**

Report Preparation:

W Donaldson - 2 days @ $200/day	400.00	
Drafting - 6 hours @ $20/hour	120.00	
Prints, typing, assembly	75.00	
		595.00

Analyses: Acme Analytical Labs

264 rocks @ $15/sample	3,960.00	
303 soils @ $12.50/sample	3,787.50	
		7,747.50

TOTAL **$23,205.00**

COSTS APPORTIONED TO CLAIMS

MAX 9	$10,442.25
MAX 7	10,442.25
MAX 6	1,160.25
MAX 11	1,160.25
Total	**$23,205.00**

APPENDIX II - ANALYTICAL RESULTS

[illegible] ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Rio Algom Exploration Inc. PROJECT 9021 File # 91-3677 Page 1

P.O. Box 10335, 1650 - 60, Vancouver BC V7Y 1G5 Submitted by: W. DONALDSON

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
A 11451	1	46	10	66	.1	12	13	378	4.77	2	5	ND	2	87	.3	2	2	107	1.08	.149	5	24	.98	84	.28	4	1.14	.03	.27	1	5
A 11452	1	38	8	68	.1	11	13	402	4.55	2	5	ND	2	82	.4	2	2	110	1.01	.173	6	13	1.03	51	.25	4	1.19	.04	.30	1	3
A 11453	1	92	6	82	.2	7	15	561	3.77	2	5	ND	2	192	.3	2	2	81	1.26	.206	8	3	1.28	246	.24	5	1.51	.04	.28	1	6
A 11454	1	55	6	98	.1	7	16	673	3.79	2	5	ND	1	197	.2	2	2	78	1.18	.183	8	3	1.36	122	.20	5	1.52	.04	.16	1	5
A 11455	1	44	3	69	.1	13	13	652	3.35	2	5	ND	1	277	.2	2	2	72	1.40	.134	6	17	1.10	53	.19	3	1.38	.09	.15	1	3
A 11456	1	47	8	78	.2	13	11	337	4.07	2	5	ND	1	76	.3	2	2	105	1.04	.109	4	35	.79	34	.16	4	1.04	.03	.09	1	2
A 11457	3	40	2	41	.1	14	4	252	3.51	2	5	ND	1	86	.2	2	2	83	.91	.119	4	56	.70	31	.20	2	.94	.03	.12	1	4
A 11458	4	58	8	44	.3	4	1	343	5.44	6	5	ND	2	108	.2	2	2	132	.26	.104	4	10	1.23	97	.37	2	1.40	.06	.17	1	10
A 11459	1	72	5	124	.1	59	24	922	5.10	2	5	ND	2	90	.4	2	2	101	1.19	.172	6	161	2.48	44	.21	2	1.94	.03	.08	1	1
A 11460	1	51	4	67	.1	12	16	589	4.18	2	5	ND	1	134	.3	2	2	84	1.16	.150	5	17	1.14	27	.23	2	1.36	.04	.09	1	2
A 11461	1	32	7	70	.1	5	14	719	3.65	2	5	ND	1	165	.2	2	2	92	1.14	.154	6	3	1.20	143	.21	3	1.35	.04	.23	1	4
A 11462	2	58	8	77	.1	19	15	400	4.76	2	5	ND	2	71	.3	2	2	121	1.12	.139	7	54	.95	50	.19	3	1.03	.03	.16	1	49
A 11463	3	124	3	68	.4	23	17	478	5.42	5	5	ND	1	71	.7	2	2	111	1.13	.154	3	49	1.62	60	.21	4	1.70	.02	.21	1	6
A 11464	3	72	8	62	.3	6	7	507	4.25	2	5	ND	1	86	.2	2	2	79	.86	.128	4	6	1.39	47	.20	5	1.65	.03	.23	1	10
A 11465	3	95	11	62	.7	23	13	390	3.87	2	5	ND	1	75	.2	2	2	75	.97	.130	3	48	1.01	47	.22	2	1.21	.04	.30	1	6
A 11466	2	30	10	102	.2	16	9	519	3.68	5	5	ND	1	116	.2	2	2	53	1.02	.146	3	28	1.15	27	.22	3	1.36	.03	.09	1	2
A 11467	3	32	6	8	.2	3	1	51	5.41	10	5	ND	1	226	.2	2	2	103	.26	.131	4	47	.09	124	.35	2	.38	.09	.29	1	5
A 11468	1	65	7	59	.3	12	7	346	3.55	15	5	ND	1	62	.2	2	2	58	.77	.138	2	19	1.09	42	.21	2	1.27	.04	.12	1	5
A 11469	1	84	2	103	.2	91	26	595	3.76	9	5	ND	1	93	.4	2	2	79	1.03	.173	2	245	2.94	63	.17	3	2.43	.02	1.55	1	6
A 11470	2	68	11	75	.2	15	9	388	3.33	3	5	ND	1	62	.2	2	2	51	.71	.135	2	29	1.09	52	.20	3	1.18	.04	.19	1	6
A 11471	1	70	14	75	.4	13	10	460	3.90	7	5	ND	1	85	.2	2	2	64	.80	.133	2	27	1.17	80	.20	4	1.22	.04	.19	1	9
A 11472	2	71	7	72	.8	19	7	446	3.82	5	5	ND	1	80	.2	2	2	89	.98	.117	2	44	1.43	58	.22	6	1.56	.04	.24	1	3
A 11473	1	110	2	81	.2	27	16	391	4.45	5	5	ND	1	80	.4	2	2	113	1.15	.123	2	64	1.33	122	.20	6	1.51	.03	.42	1	7
A 11474	1	77	2	50	.4	25	14	455	3.88	8	5	ND	1	70	.2	2	2	93	1.03	.124	3	41	1.66	103	.25	6	1.90	.04	.57	1	1
A 11475	1	83	2	50	.3	24	18	368	4.24	5	5	ND	1	100	.4	2	2	108	1.71	.201	3	67	1.19	122	.19	6	1.63	.05	.21	1	6
RE A 11471	2	68	12	77	.4	13	10	465	3.95	8	5	ND	1	85	.2	2	2	65	.81	.135	2	29	1.18	80	.21	4	1.23	.04	.18	1	11
A 11476	1	115	2	54	.3	17	16	524	4.56	7	5	ND	1	55	.4	2	2	122	.95	.117	3	35	1.85	196	.27	4	2.01	.03	1.13	1	8
A 11477	2	118	2	43	.4	15	17	350	4.58	6	5	ND	1	66	.2	2	2	99	.86	.126	4	35	.95	60	.21	6	1.16	.03	.36	1	9
A 11478	1	84	4	121	.1	6	15	704	4.01	2	5	ND	3	179	.6	2	2	92	1.22	.205	9	5	1.46	153	.23	4	1.58	.04	.33	1	13
A 11479	1	46	7	91	.2	4	14	757	3.47	2	5	ND	3	163	.3	2	2	84	.99	.162	8	2	1.17	55	.22	2	1.27	.04	.21	1	14
A 11480	1	94	2	69	.3	4	13	497	3.17	2	5	ND	2	168	.2	2	2	79	1.04	.154	7	2	1.00	274	.21	3	1.31	.04	.33	1	5
A 11481	1	56	2	66	.2	5	13	560	4.63	4	5	ND	2	172	.3	2	2	108	1.18	.165	7	2	1.03	202	.24	4	1.38	.04	.29	1	4
A 11482	1	132	3	59	.3	29	21	444	3.37	4	5	ND	1	86	.2	2	2	84	1.18	.053	2	42	1.45	93	.19	6	1.86	.03	.43	1	3
A 11483	1	49	2	44	.2	26	18	401	4.67	6	5	ND	1	75	.2	2	2	121	1.21	.061	2	52	1.36	134	.26	4	1.60	.05	.44	1	6
A 11484	2	130	3	43	.7	18	19	294	4.52	6	5	ND	1	82	.2	2	2	127	1.02	.115	4	26	.93	76	.28	2	1.12	.03	.41	1	9
A 11485	1	25	3	56	.2	6	8	344	4.06	5	5	ND	1	66	.2	2	2	72	.72	.112	4	13	.65	24	.19	2	.74	.04	.14	1	2
A 11486	1	90	2	99	.3	15	17	814	4.68	6	5	ND	1	144	.2	2	2	101	1.08	.138	5	23	1.78	47	.27	3	1.82	.03	.41	1	2
STANDARD C/AU-R	18	59	37	132	7.4	70	32	1043	3.94	43	19	7	40	52	18.4	15	20	56	.48	.089	39	58	.87	175	.09	32	1.92	.06	.15	12	459

ICP - .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 SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1-P3 ROCK P4-P7 SOIL AU** ANALYSIS BY FA/ICP FROM 10 GM SAMPLE.
Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 20 1991 **DATE REPORT MAILED:** Aug 27/91. **SIGNED BY.....** D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
A 11487	1	35	5	68	.3	10	11	634	4.53	4	5	ND	2	69	.2	2	2	102	1.09	.138	7	7	.87	86	.18	10	1.08	.03	.18	1	5
A 11488	1	128	6	73	.4	9	16	586	4.57	3	5	ND	2	50	.2	2	2	110	1.26	.163	8	6	.93	77	.17	7	1.09	.04	.14	1	8
A 11489	9	13	6	8	.1	9	1	119	.90	8	5	ND	1	49	.2	2	2	23	.38	.027	6	16	.05	76	.16	4	.23	.05	.09	1	2
A 11490	7	38	6	11	.3	17	7	116	1.87	10	5	ND	2	41	.2	2	2	36	.47	.073	5	19	.11	84	.16	4	.25	.04	.11	1	3
A 11491	6	37	3	26	.2	9	9	255	3.93	22	5	ND	1	80	.2	2	2	57	.73	.149	4	15	.84	64	.16	5	.93	.06	.24	1	8
A 11492	1	26	2	49	.1	14	11	664	4.72	3	5	ND	1	131	.2	2	2	79	.96	.143	5	16	1.15	46	.22	4	1.27	.03	.11	1	2
A 11493	1	89	4	67	.3	9	15	646	4.32	2	5	ND	2	107	.2	2	2	78	1.14	.155	7	6	1.24	38	.19	6	1.38	.04	.12	1	5
A 11494	1	47	3	66	.2	6	10	613	3.15	2	5	ND	1	121	.2	2	2	71	1.50	.176	7	3	.90	75	.19	4	1.57	.04	.12	1	4
A 11495	2	118	6	50	.3	30	18	475	3.87	16	5	ND	1	121	.2	2	2	82	1.09	.118	2	74	1.36	76	.26	6	1.44	.04	.46	1	7
A 11496	1	43	3	36	.2	11	9	393	3.83	4	5	ND	1	99	.2	2	2	84	.99	.124	4	20	1.06	53	.21	5	1.37	.03	.14	1	8
A 11497	1	46	4	52	.1	18	11	621	3.04	5	5	ND	1	137	.2	2	2	76	1.31	.148	4	33	1.38	60	.20	5	1.70	.04	.21	1	2
A 11498	1	96	7	116	.3	37	25	1009	6.10	4	5	ND	1	54	.2	2	2	144	1.01	.139	6	80	3.00	31	.21	6	2.51	.03	.08	1	2
A 11499	1	42	2	57	.2	36	16	615	3.19	8	5	ND	1	122	.6	2	2	59	1.08	.134	3	86	1.60	62	.21	5	1.57	.04	.08	1	4
A 11500	1	65	2	66	.2	35	15	616	3.94	5	5	ND	1	84	.3	2	2	86	1.01	.119	3	88	1.94	63	.23	7	1.96	.03	.51	1	5
A 11501	1	77	3	69	.2	9	8	579	4.03	2	5	ND	1	116	.2	2	2	70	1.04	.142	5	9	1.11	57	.23	5	1.55	.04	.19	1	1
A 11502	1	114	3	29	.3	7	10	292	3.85	2	5	ND	1	104	.2	2	2	83	1.10	.158	6	7	.44	38	.17	4	.84	.04	.14	1	9
A 11503	1	149	2	58	.6	11	12	515	5.27	2	5	ND	1	127	.2	2	2	75	.98	.177	5	23	1.15	56	.34	4	1.25	.04	.15	1	8
A 11504	1	98	6	46	.1	7	9	504	2.25	2	5	ND	1	210	.2	2	2	40	1.18	.110	7	4	.99	122	.19	4	1.39	.05	.22	1	3
RE A 11500	1	62	2	59	.2	35	14	581	3.67	7	5	ND	1	85	.2	2	2	82	.97	.112	3	84	1.82	61	.23	6	1.86	.03	.51	1	3
A 11505	1	89	2	53	.2	14	19	714	5.06	2	5	ND	1	115	.3	2	2	80	.84	.154	5	13	1.37	24	.23	2	1.52	.04	.05	1	1
A 11506	2	107	10	100	.4	17	17	530	4.68	6	5	ND	1	89	.4	2	2	66	.80	.123	2	29	1.23	34	.20	5	1.14	.04	.10	1	2
A 11507	4	72	4	95	.4	17	14	611	4.97	20	5	ND	1	103	.4	2	2	66	.84	.152	2	45	1.94	30	.20	2	1.78	.05	.07	1	10
A 11508	1	66	6	44	.3	16	8	337	3.34	5	5	ND	1	77	.2	2	2	68	1.15	.188	2	53	.98	70	.22	3	1.06	.05	.22	1	7
A 11509	2	62	7	43	.2	19	13	416	4.59	2	5	ND	2	98	.2	2	2	138	1.32	.162	11	26	.66	135	.23	4	1.61	.18	.53	1	7
A 11510	1	33	4	40	.1	6	6	513	1.37	3	5	ND	1	295	.2	2	2	21	.83	.078	4	4	.67	35	.11	5	1.13	.04	.13	1	2
A 11511	1	80	2	68	.1	15	17	590	4.67	3	5	ND	1	137	.3	2	2	109	1.37	.184	6	18	1.49	152	.24	4	1.80	.03	.32	1	5
A 11512	1	59	5	64	.2	25	14	390	5.24	4	5	ND	1	66	.2	2	2	181	.90	.077	3	13	.86	121	.21	6	1.11	.02	.24	1	3
A 11513	1	243	3	32	.3	23	26	276	3.56	3	5	ND	1	62	.2	2	2	79	.99	.128	2	27	1.08	45	.16	5	1.37	.03	.17	1	9
A 11514	2	243	2	55	.3	25	28	432	4.82	2	5	ND	1	54	.4	2	2	129	1.00	.123	3	32	1.34	76	.25	4	1.52	.04	.26	1	35
A 11515	1	62	4	58	.1	61	15	599	3.33	2	5	ND	13	37	.2	2	2	71	.90	.063	16	57	1.45	101	.20	7	1.71	.05	.26	1	3
A 11516	1	110	2	67	.3	42	28	626	6.24	6	5	ND	1	44	.5	2	2	187	1.29	.074	2	65	2.18	266	.31	6	2.21	.04	.81	1	3
A 11517	3	122	5	39	.3	14	14	439	3.88	22	5	ND	1	83	.3	2	2	75	.90	.126	6	19	1.20	70	.29	8	1.26	.05	.70	1	7
A 11518	1	106	2	27	.4	10	16	635	2.19	4	5	ND	1	248	.2	2	2	53	1.36	.080	4	11	.67	21	.20	2	1.16	.02	.09	1	2
A 11519	3	129	3	33	.3	15	12	371	3.91	8	5	ND	1	66	.2	2	2	68	.79	.144	2	27	1.30	34	.23	2	1.27	.04	.11	1	7
A 11520	1	51	2	73	.1	14	18	676	5.20	4	5	ND	1	106	.4	2	2	116	1.23	.156	6	25	1.53	102	.26	2	1.76	.04	.25	1	1
A 11521	1	49	2	85	.1	9	11	730	4.11	4	5	ND	1	52	.2	2	2	85	.79	.100	9	27	1.10	36	.22	4	1.36	.04	.11	1	10
A 11522	2	136	7	79	.4	23	20	720	4.70	8	5	ND	1	145	.4	2	2	78	.96	.141	3	35	1.78	57	.26	2	1.80	.04	.06	1	6
STANDARD C/AU-R	18	59	35	132	7.0	71	32	1039	3.93	41	19	7	39	52	18.5	16	17	56	.47	.090	38	57	.86	174	.09	34	1.90	.06	.15	12	461

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
A 11523	2	83	5	81	.1	19	21	829	4.71	3	5	ND	1	100	.2	2	2	115	1.34	.149	6	17	1.39	178	.31	7	1.85	.07	.78	1	1
A 11524	1	66	7	94	.3	9	15	722	4.08	3	5	ND	2	172	.3	2	3	102	1.21	.222	9	8	1.24	183	.27	9	1.49	.05	.71	1	5
A 11525	1	77	3	48	.2	18	15	491	3.27	5	5	ND	1	82	.2	2	2	81	1.38	.051	2	23	1.45	57	.27	4	2.28	.22	.09	1	2
A 11526	1	88	2	97	.4	110	39	795	4.79	6	5	ND	1	124	.2	2	3	89	1.16	.243	3	297	3.38	66	.22	5	2.48	.02	.86	1	3
A 11527	1	37	13	95	.2	17	11	860	3.81	3	5	ND	1	91	.2	2	2	90	.46	.077	5	27	.99	46	.29	8	1.66	.05	1.73	1	2
A 11528	1	53	4	48	.3	19	17	579	4.01	5	5	ND	1	123	.2	2	3	106	1.38	.143	4	54	1.60	42	.29	4	1.76	.03	.75	1	5
RE A 11527	1	36	11	93	.2	15	11	842	3.74	3	5	ND	1	89	.2	2	4	89	.45	.073	5	24	.96	45	.29	9	1.61	.05	1.70	1	2
A 11529	2	35	2	47	.4	15	12	533	4.12	5	5	ND	1	158	.2	2	2	90	1.16	.131	3	37	1.16	38	.26	7	1.41	.05	.11	1	2
A 11530	1	54	6	68	.2	14	17	620	4.57	4	5	ND	1	209	.2	2	2	117	1.45	.157	8	29	1.19	52	.30	3	1.52	.09	.16	1	3
STANDARD C/AU-R	19	58	35	133	7.0	71	33	1048	4.01	41	17	7	38	52	18.8	16	18	55	.49	.092	38	59	.90	179	.09	33	1.90	.06	.15	11	462

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
B106N 125+00E	1	47	4	164	.3	27	17	558	4.18	5	5	ND	2	47	.5	2	2	83	.64	.127	6	44	.85	139	.15	3	2.30	.03	.15	1	4
B106N 131+50E	1	69	5	110	.2	29	16	523	4.31	6	5	ND	3	34	.2	2	2	70	.42	.184	6	37	1.00	119	.12	4	2.91	.02	.10	1	9
B106N 138+00E	2	113	10	84	.9	31	16	747	4.54	7	5	ND	1	47	.7	2	2	90	.38	.104	10	61	.64	109	.12	3	2.08	.02	.11	1	8
B106N 142+50E	5	263	8	113	.7	49	107	2387	4.64	6	5	ND	1	68	.7	2	2	81	.93	.106	9	90	.89	109	.14	4	1.95	.02	.14	1	2
B106N 143+00E	5	439	24	155	1.1	115	40	3691	5.13	4	5	ND	1	100	1.8	2	2	117	1.75	.092	9	281	2.16	97	.15	5	3.31	.02	.15	1	4
B106N 146+00E	1	142	5	137	.8	66	19	1224	4.62	8	5	ND	1	86	1.4	2	2	82	1.11	.081	15	78	1.19	275	.08	3	3.25	.03	.16	1	1
B105N 130+50E	1	72	4	117	.7	23	16	513	4.10	4	5	ND	1	55	.4	2	2	79	.55	.123	8	43	.60	112	.15	3	1.81	.01	.09	1	4
B105N 139+50E	1	64	6	111	.3	34	15	496	4.46	6	5	ND	2	54	.5	2	2	88	.57	.138	8	68	1.01	113	.15	3	2.23	.02	.10	1	4
B105N 146+00E	1	56	7	106	.4	34	12	656	3.66	5	5	ND	1	52	.6	2	2	74	.52	.080	11	53	.90	137	.13	2	2.24	.03	.11	1	3
B104N 130+50E	1	85	5	153	.7	25	14	366	4.16	7	5	ND	2	33	.4	2	2	86	.44	.059	7	53	.65	93	.17	2	1.65	.02	.11	1	2
B104N 131+00E	2	635	5	146	1.0	22	26	925	5.08	4	5	ND	1	71	.4	2	2	108	.85	.127	12	35	1.06	128	.21	2	2.36	.01	.09	1	17
B104N 134+50E	1	389	4	193	.3	64	31	762	5.30	5	5	ND	2	51	.5	2	2	108	.67	.139	6	154	2.09	84	.21	2	3.10	.02	.17	1	4
B104N 141+50E	1	204	8	163	1.3	72	20	1277	5.38	11	5	ND	1	52	1.9	2	2	87	.76	.125	19	77	.75	201	.09	3	2.66	.02	.16	1	4
B104N 143+00E	2	569	12	124	2.1	50	25	989	4.92	10	5	ND	2	59	2.6	2	2	87	1.31	.117	12	89	.67	83	.08	4	2.33	.02	.15	1	6
B104N 144+50E	2	697	9	130	1.2	51	27	1263	4.39	7	5	ND	1	57	.8	2	2	74	1.17	.071	10	83	.81	116	.12	4	2.53	.02	.11	1	7
B104N 145+50E	1	382	9	156	1.9	81	25	1429	5.71	11	5	ND	1	59	1.8	2	2	89	1.03	.087	15	85	1.20	262	.09	4	3.88	.02	.20	1	5
B103N 132+00E	6	288	11	205	.5	43	33	918	7.80	9	5	ND	2	67	1.0	2	2	146	.74	.165	8	63	1.22	178	.18	3	4.13	.01	.15	1	10
B103N 132+50E	2	79	10	181	.6	17	13	468	5.14	4	5	ND	2	61	.5	2	2	119	.50	.104	8	36	.67	104	.23	2	2.07	.02	.11	1	127
B103N 137+00E	4	97	8	81	.5	30	15	721	5.91	9	5	ND	2	47	.3	2	2	132	.31	.103	4	77	1.70	74	.23	2	2.62	.02	.15	1	53
B103N 143+50E	1	221	3	176	1.5	99	54	1074	6.21	7	5	ND	1	40	1.0	2	2	107	.75	.073	4	327	2.69	88	.17	3	3.24	.01	.46	1	1
RE B103N 137+00E	4	104	8	74	.5	34	17	759	6.00	10	5	ND	1	49	.4	2	2	137	.33	.103	4	94	1.85	75	.24	2	2.72	.02	.18	1	77
B102N 131+50E	3	203	12	212	.4	20	22	1514	5.83	6	5	ND	2	66	.8	2	2	118	.69	.164	10	35	1.33	135	.26	2	2.54	.01	.16	1	36
B102N 132+50E	1	377	2	161	.4	37	32	905	8.76	8	5	ND	2	99	1.3	2	2	177	.80	.141	4	116	2.00	155	.34	8	2.77	.02	.17	1	29
B102N 137+50E	2	80	10	125	1.0	30	17	467	5.14	8	5	ND	2	54	.4	2	2	84	.37	.190	7	117	.79	89	.17	2	1.85	.01	.09	1	6
B102N 138+50E	7	119	12	132	1.0	23	17	436	7.28	19	5	ND	3	70	.4	2	2	90	.23	.332	7	62	.90	119	.18	3	3.05	.01	.09	1	16
B102N 143+50E	5	213	23	108	1.4	46	19	1250	4.62	11	5	ND	1	75	1.6	2	2	85	1.36	.084	9	71	.81	261	.09	4	2.57	.01	.16	1	6
B102N 145+50E	1	52	10	190	.5	33	22	755	5.08	6	5	ND	2	67	.9	2	2	96	.70	.237	7	84	1.07	191	.17	7	2.46	.02	.12	1	5
B102N 150+00E	9	95	7	98	.6	37	22	1685	3.36	4	5	ND	1	67	.7	2	2	79	.80	.081	14	63	.82	211	.08	2	2.48	.02	.10	1	19
B101N 130+00E	4	537	17	216	.8	42	29	2055	6.89	9	5	ND	3	85	2.1	2	2	130	1.12	.099	24	45	1.17	209	.25	2	3.41	.02	.11	1	5
B101N 131+50E	1	93	7	121	.4	31	16	565	4.87	8	5	ND	2	50	1.0	2	2	95	.63	.126	9	47	.92	132	.17	3	2.47	.02	.12	1	4
B101N 132+00E	1	240	9	180	.5	22	28	1136	6.65	5	5	ND	3	94	.9	2	2	151	.74	.159	9	27	1.88	126	.30	2	3.24	.01	.10	1	91
B101N 132+50E	2	191	7	200	.4	19	25	1097	7.93	8	5	ND	3	147	1.1	2	2	167	.80	.174	9	23	2.17	156	.37	2	3.37	.01	.13	1	7
B101N 133+00E	2	472	20	174	.6	36	24	627	5.45	8	5	ND	3	61	.4	2	2	108	.54	.115	9	45	1.08	105	.23	3	3.09	.01	.10	1	7
B101N 136+50E	2	134	19	182	.8	38	22	447	5.27	13	5	ND	2	59	.8	2	2	85	.35	.181	7	84	.95	103	.14	4	3.17	.01	.10	1	8
B101N 137+50E	5	77	34	203	.7	36	20	504	6.11	9	5	ND	2	52	.5	2	2	136	.41	.190	6	99	1.71	106	.20	3	2.42	.02	.15	1	13
B101N 141+00E	1	45	9	122	.3	30	12	456	3.70	9	5	ND	2	50	.5	2	2	77	.50	.093	10	50	.85	100	.15	3	1.89	.02	.09	1	6
B100N 140+00E	1	663	5	120	.7	116	29	283	3.43	4	5	ND	1	43	.5	2	2	63	.75	.070	5	126	1.52	43	.15	2	2.65	.01	.12	1	6
STANDARD C/AU-S	18	58	36	133	7.0	69	33	1052	3.96	42	19	7	40	52	18.6	16	19	57	.47	.090	39	57	.87	176	.09	33	1.91	.06	.13	13	45

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
B100N 142+00E	2	195	16	103	1.2	60	21	1078	4.44	9	5	ND	1	52	.7	2	2	79	.61	.064	13	67	.90	165	.07	2	2.72	.02	.14	1	6
RE B99N 160+00E	6	113	11	106	.7	30	15	1265	4.00	3	6	ND	1	103	1.4	2	2	93	1.51	.076	4	90	.55	210	.12	2	1.18	.01	.18	1	3
B99N 131+00E	1	33	7	86	.4	27	13	421	2.61	6	5	ND	2	36	.2	4	2	60	.48	.048	7	35	.61	89	.12	6	1.37	.01	.08	1	1
B99N 136+00E	1	57	6	124	.8	29	16	451	3.83	6	5	ND	1	38	.4	2	2	69	.44	.220	7	45	.70	109	.10	3	2.00	.01	.07	1	2
B99N 149+50E	15	243	15	206	1.2	52	24	1727	4.12	11	5	ND	1	82	2.6	2	2	80	1.58	.111	11	79	1.05	310	.06	2	2.24	.01	.39	1	4
B99N 160+00E	6	109	13	104	.5	29	15	1217	3.95	3	5	ND	1	101	1.2	2	2	90	1.46	.075	4	92	.53	208	.12	6	1.15	.01	.17	1	2
B98N 145+50E	1	33	7	69	.2	23	9	329	2.79	5	5	ND	1	38	.3	2	2	63	.42	.052	6	41	.64	79	.12	5	1.69	.01	.07	1	6
B97N 133+00E	1	52	10	82	.1	29	17	498	4.21	9	5	ND	1	41	.2	2	2	92	.59	.282	5	47	.88	145	.11	2	2.26	.02	.17	1	3
B97N 136+00E	1	58	6	124	.2	60	25	534	4.80	7	11	ND	1	45	.3	2	3	97	.62	.271	5	130	1.66	159	.16	2	2.49	.02	.22	1	5
B97N 139+50E	1	36	13	199	.3	24	21	811	4.37	5	5	ND	1	39	.7	2	2	88	.50	.203	6	57	.75	172	.12	2	2.00	.02	.10	1	2
B97N 140+00E	1	147	13	109	1.2	57	22	876	3.99	7	5	ND	1	63	.7	2	3	71	1.37	.083	9	78	.86	142	.09	3	2.44	.02	.18	1	4
B97N 149+50E	4	216	11	76	2.4	49	11	366	4.10	10	5	ND	1	29	.8	2	4	63	.44	.177	13	57	.44	138	.04	4	2.98	.01	.13	1	8
B96N 133+00E	2	913	9	124	1.7	70	18	535	4.52	12	5	ND	1	77	.5	2	8	79	2.05	.087	32	69	.95	247	.07	2	3.31	.01	.19	1	8
B96N 137+50E	2	332	10	126	.8	64	26	1081	4.98	10	5	ND	1	48	1.4	2	3	96	.94	.051	10	83	.87	146	.10	2	2.60	.01	.18	1	2
B96N 140+00E	3	148	8	110	.9	43	22	846	3.79	8	5	ND	1	57	.7	2	2	75	1.11	.098	9	72	.67	130	.06	10	2.03	.02	.11	1	9
B96N 144+50E	1	41	6	104	.2	23	11	340	3.14	3	5	ND	1	36	.4	2	2	63	.43	.057	9	41	.60	96	.12	2	1.85	.01	.08	1	6

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
PB106N 125+00E	1	78	5	70	.2	48	16	484	4.44	7	5	ND	1	37	.3	2	2	93	.53	.077	5	55	.88	103	.13	2	2.25	.02	.13	1	3
PB106N 131+50E	2	98	3	85	.1	19	14	459	4.32	6	5	ND	1	34	.3	2	2	60	.42	.140	4	24	1.08	137	.12	2	2.34	.02	.17	1	3
PB106N 138+00E	2	76	9	95	.3	31	14	485	4.53	5	5	ND	1	36	.5	2	2	82	.37	.066	8	58	.98	77	.14	2	2.19	.02	.11	1	9
PB106N 141+00E	3	243	9	144	.7	42	27	871	5.01	11	5	ND	1	56	.8	2	2	81	.58	.123	7	65	1.14	89	.09	3	2.62	.02	.13	1	12
PB106N 142+50E	4	225	8	111	.6	54	50	847	5.19	8	5	ND	1	48	.7	2	2	78	.69	.097	8	89	1.32	69	.13	3	2.44	.02	.17	1	5
PB106N 143+00E	5	719	150	193	2.4	82	35	3676	4.89	8	5	ND	1	90	2.7	2	2	104	1.93	.149	15	170	1.46	118	.08	4	3.43	.02	.20	1	12
PB106N 146+00E	1	70	14	65	.3	28	11	612	2.71	4	5	ND	1	53	.5	2	2	57	.72	.079	11	50	.75	92	.13	2	1.47	.03	.08	1	8
RE PB104N 130+50E	1	123	4	78	.3	32	13	402	3.10	5	5	ND	1	38	.2	2	2	61	.47	.051	9	44	.72	80	.14	3	1.61	.03	.08	1	5
PB105N 130+50E	1	90	6	106	.8	33	15	343	4.34	5	5	ND	2	39	.4	2	2	72	.43	.147	9	46	.74	93	.13	2	2.54	.01	.08	1	8
PB105N 139+50E	1	78	7	95	.3	37	15	537	4.51	9	5	ND	1	49	.6	2	2	85	.52	.107	8	67	1.01	108	.14	3	2.43	.02	.10	1	7
PB105N 146+00E	1	50	8	72	.1	32	11	525	3.54	7	5	ND	1	45	.5	2	2	73	.53	.082	10	51	.87	99	.15	3	1.91	.03	.08	1	13
PB104N 130+50E	1	127	5	76	.2	33	13	403	3.13	6	5	ND	1	40	.4	2	2	63	.47	.052	9	45	.74	81	.14	3	1.63	.03	.08	1	21
PB104N 131+00E	2	1464	6	119	.8	28	29	936	5.52	9	5	ND	3	107	1.4	2	2	119	.99	.165	10	38	1.76	227	.23	3	2.93	.01	.22	1	39
PB104N 132+00E	3	525	9	271	.6	23	22	1050	4.67	7	5	ND	1	102	1.7	2	2	82	.73	.068	11	29	.89	126	.16	2	2.90	.01	.09	1	12
PB104N 134+50E	1	386	6	144	.1	63	33	662	4.68	6	5	ND	1	39	.8	2	2	95	.63	.120	6	117	1.76	94	.19	2	2.58	.02	.32	1	6
PB104N 141+50E	1	97	7	103	.3	40	17	810	3.90	7	5	ND	1	40	.5	2	2	69	.55	.072	12	58	.80	100	.12	3	1.89	.02	.10	1	8
PB104N 143+00E	1	286	13	109	.7	61	22	729	4.59	10	5	ND	1	46	1.0	2	2	76	.86	.092	9	88	1.12	96	.11	3	2.62	.02	.17	1	3
PB104N 144+50E	1	352	7	145	.6	72	27	861	4.82	7	5	ND	1	49	.7	2	2	84	1.05	.091	7	162	1.98	90	.14	3	2.93	.02	.29	1	7
PB104N 145+50E	1	85	7	92	.3	39	16	748	3.74	8	5	ND	1	42	.2	2	2	70	.59	.044	9	63	.99	102	.14	3	1.86	.03	.10	1	2
PB103N 132+00E	5	245	14	210	.5	35	26	737	6.36	12	5	ND	1	242	1.0	2	2	118	1.05	.148	8	44	1.31	156	.18	3	4.06	.02	.12	1	7
PB103N 132+50E	2	213	9	388	.2	23	21	919	7.91	8	5	ND	3	91	1.2	2	2	160	.59	.172	8	31	1.80	113	.29	2	3.92	.02	.15	1	69
PB103N 137+00E	4	194	7	116	.4	34	22	1580	7.40	12	5	ND	1	37	.5	2	2	184	.22	.080	8	94	3.03	70	.30	2	3.67	.02	.61	1	109
PB103N 143+50E	1	188	2	156	.7	122	53	1175	7.18	10	5	ND	1	28	.9	2	2	115	.57	.098	3	426	3.54	95	.17	3	3.52	.01	.83	1	2
PB102N 131+50E	6	276	23	210	.5	25	19	1087	6.17	7	5	ND	2	49	1.0	2	2	113	.56	.152	11	30	1.40	117	.22	3	2.90	.01	.12	1	41
PB102N 132+50E	1	607	4	148	.4	42	38	917	8.65	5	5	ND	1	81	.8	2	2	169	.77	.142	4	129	2.43	182	.30	8	2.98	.02	.29	1	8
PB102N 137+50E	2	180	13	155	.8	34	23	456	6.89	11	5	ND	2	52	.8	2	2	85	.33	.379	8	83	.90	113	.15	2	2.91	.01	.10	1	9
PB102N 138+50E	8	135	10	131	1.1	23	17	423	7.54	17	5	ND	3	66	.5	2	2	86	.21	.326	7	61	.91	122	.17	2	3.32	.01	.08	1	28
PB102N 143+50E	9	263	27	123	1.3	73	23	3250	5.05	9	5	ND	1	60	2.4	2	2	98	.91	.057	11	126	1.54	264	.16	2	2.76	.02	.39	1	12
PB102N 145+50E	1	46	6	104	.3	27	12	633	3.40	4	5	ND	1	49	.4	2	2	68	.58	.120	8	56	.77	117	.15	10	1.62	.03	.09	1	3
PB102N 150+00E	1	62	5	71	.1	26	11	539	2.85	5	5	ND	1	57	.4	2	2	67	.72	.088	11	56	.84	90	.15	3	1.59	.03	.06	1	13
PB101N 130+00E	3	457	17	252	.7	38	27	1771	6.78	10	5	ND	4	83	1.7	2	2	125	1.09	.111	21	41	1.51	207	.23	2	3.41	.01	.17	1	8
PB101N 131+50E	1	126	8	97	.3	37	14	485	4.34	8	5	ND	2	40	.5	2	2	80	.52	.078	9	48	.91	126	.15	4	2.56	.02	.10	1	7
PB101N 132+00E	1	303	10	168	.3	19	30	1390	7.08	6	5	ND	3	97	1.0	2	2	158	.83	.188	10	21	2.30	136	.31	2	3.49	.01	.09	1	67
PB101N 132+50E	3	524	6	187	.6	23	29	1248	9.08	12	5	ND	4	129	1.5	2	2	173	.89	.206	10	27	2.52	143	.33	2	4.04	.01	.15	1	8
PB101N 133+00E	3	450	18	155	1.0	31	20	593	5.25	4	5	ND	3	60	.5	2	2	102	.51	.098	9	40	1.01	102	.22	2	2.92	.01	.09	1	9
PB101N 136+50E	3	138	20	137	.6	38	21	393	5.03	11	5	ND	1	47	.7	2	2	77	.30	.171	6	73	.89	97	.12	3	3.35	.01	.08	1	6
PB101N 137+50E	2	85	15	87	.5	42	20	426	4.82	10	5	ND	2	51	.2	2	2	93	.42	.085	7	65	1.05	81	.17	3	2.49	.02	.08	1	18
STANDARD C/AU-S	18	62	39	133	7.0	71	33	1058	4.01	43	18	6	40	52	18.6	15	19	57	.48	.090	39	59	.90	180	.09	33	1.95	.06	.15	11	45

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
PB101N 141+00E	1	55	10	84	.1	33	18	710	3.62	11	5	ND	1	52	.4	2	2	83	.56	.075	10	54	.94	102	.16	3	1.84	.02	.10	1	6
PB100N 140+00E	1	405	8	102	.2	118	39	550	4.68	8	5	ND	1	46	.5	2	2	103	.83	.097	4	253	2.49	40	.18	3	3.13	.01	.42	2	5
PB100N 142+00E	1	67	15	70	.4	35	14	644	3.15	4	5	ND	1	42	.7	2	2	65	.46	.030	10	47	.81	91	.12	4	1.66	.02	.08	1	5
PB99N 131+00E	1	36	6	64	.1	28	12	460	2.71	3	5	ND	1	44	.5	2	2	64	.54	.058	10	38	.67	88	.14	8	1.46	.02	.07	1	2
PB99N 136+00E	1	146	8	120	1.3	33	25	549	4.38	8	5	ND	1	67	.6	2	2	76	.49	.241	7	45	.81	146	.09	4	2.41	.02	.07	1	4
PB99N 149+50E	9	153	12	151	.6	48	21	1048	3.92	7	5	ND	1	63	1.0	2	2	78	1.06	.094	11	75	1.11	225	.08	4	2.36	.01	.28	1	3
PB99N 150+00E	5	114	15	110	.6	32	19	984	4.02	2	5	ND	1	88	1.1	2	2	89	1.23	.083	5	92	.69	168	.11	2	1.46	.01	.20	1	24
PB98N 132+50E	2	180	13	191	.2	58	31	1178	5.72	6	5	ND	1	84	.5	2	7	142	.97	.185	6	187	1.96	233	.29	2	2.54	.01	.20	1	11
PB98N 145+50E	1	44	6	70	.1	30	13	477	3.05	2	5	ND	1	42	.2	2	2	66	.48	.063	9	50	.73	96	.13	4	1.72	.02	.08	1	12
PB97N 133+00E	1	55	5	85	.1	28	17	624	3.87	4	5	ND	1	42	.4	2	2	93	.59	.162	6	45	.86	121	.12	4	1.91	.02	.17	1	4
PB97N 136+00E	1	83	9	109	.2	80	27	580	5.23	3	5	ND	1	44	.3	2	3	112	.66	.232	6	185	2.05	131	.18	4	3.00	.02	.34	1	3
PB97N 139+50E	1	48	14	121	.2	30	20	690	4.67	6	5	ND	1	43	.2	2	2	101	.55	.215	6	66	.87	143	.12	2	2.11	.02	.11	1	6
PB97N 140+00E	1	153	7	120	1.0	70	27	830	4.63	9	5	ND	1	58	.7	2	2	87	1.09	.083	8	102	1.18	141	.11	5	2.82	.01	.18	1	7
PB97N 149+50E	3	203	13	108	2.1	58	16	752	4.42	11	5	ND	1	28	.7	2	2	76	.42	.101	12	64	.73	167	.05	5	3.42	.01	.17	1	9
PB96N 133+00E	2	301	11	75	.4	37	14	480	3.21	7	5	ND	1	40	.3	2	2	62	.68	.037	13	52	.76	99	.12	5	1.61	.02	.12	1	10
PB96N 137+50E	1	268	14	132	.6	66	26	781	4.54	8	5	ND	1	47	.8	2	2	87	.83	.061	9	88	1.16	126	.12	2	2.66	.01	.20	1	4
RE PB97N 139+50E	1	50	6	114	.2	29	19	646	4.50	5	5	ND	1	41	.8	2	2	98	.53	.198	6	61	.80	131	.12	2	1.95	.02	.11	1	4
PB96N 140+00E	2	92	5	97	.5	35	19	624	3.75	5	5	ND	1	49	.4	2	2	79	.78	.073	7	95	.84	95	.10	3	1.77	.02	.11	1	5
PB96N 144+50E	1	55	7	68	.2	34	14	457	3.21	5	5	ND	1	37	.2	2	2	65	.45	.061	8	48	.69	106	.11	2	1.86	.02	.09	1	6
STANDARD C/AU-S	18	57	36	136	7.0	74	31	1083	4.06	43	18	7	38	52	18.4	15	20	55	.50	.087	38	58	.88	183	.09	34	1.94	.06	.15	11	45

Samples beginning 'RE' are duplicate samples.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE (604) 253-3158 FAX (604) 253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Rio Algom Exploration Inc. PROJECT 9021 File # 91-3776 Page 1

P.O. Box 10335, 1650 - 60, Vancouver BC V7Y 1G5 Submitted by: W. DONALDSON

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
A 11531	2	39	2	74	.3	16	10	525	3.89	2	5	ND	4	65	.2	2	2	103	1.13	.130	6	47	1.25	37	.20	3	1.35	.03	.30	1	12
A 11532	2	257	2	44	.4	10	21	381	4.30	5	5	ND	1	90	.2	2	2	42	.79	.145	2	8	.95	38	.14	3	1.15	.04	.13	1	12
A 11533	2	67	3	54	.5	20	17	615	3.55	4	5	ND	3	137	.5	2	2	82	1.04	.130	6	34	1.26	63	.20	5	1.36	.07	.21	1	15
A 11534	1	27	2	60	.3	28	23	575	4.75	3	5	ND	1	85	.2	2	2	134	.93	.024	2	13	1.75	62	.30	2	1.81	.03	.45	1	7
A 11535	1	57	2	41	.2	8	11	496	3.59	4	5	ND	2	157	.2	2	2	47	1.02	.129	5	5	1.54	39	.16	3	1.72	.04	.16	1	4
A 11536	1	84	2	101	.5	20	20	705	4.75	12	5	ND	2	68	.3	2	2	91	.88	.135	2	42	2.36	65	.25	2	2.16	.04	.56	1	4
A 11537	1	47	2	66	.3	19	22	851	3.70	3	5	ND	2	110	.4	2	2	88	.94	.133	3	30	1.75	29	.16	7	1.85	.05	.10	1	2
A 11538	1	85	2	64	.5	19	14	712	3.24	2	5	ND	3	122	.2	2	2	93	1.29	.128	5	35	1.63	48	.18	3	1.83	.06	.17	1	1
A 11539	1	85	10	108	.4	29	21	1179	6.11	3	5	ND	3	81	.4	2	2	145	1.08	.122	5	79	2.35	28	.24	3	2.32	.04	.09	1	1
A 11540	1	64	4	88	.2	34	21	641	3.98	26	5	ND	1	142	.3	2	2	92	1.07	.124	3	49	1.62	33	.29	2	1.68	.03	.05	1	8
A 11541	1	58	2	81	.1	10	17	1146	5.69	3	5	ND	2	91	.5	2	2	147	1.08	.132	7	4	2.12	177	.15	4	2.11	.03	.10	1	1
A 11542	1	126	2	109	.3	20	29	1192	7.75	2	5	ND	3	55	.5	2	2	156	1.06	.165	5	79	2.95	41	.19	3	2.68	.03	.15	1	6
A 11543	1	127	2	85	.4	75	34	1100	6.19	2	5	ND	3	40	.8	2	2	156	2.29	.091	6	99	2.72	35	.30	7	4.16	.02	.04	1	17
RE A 11547	1	93	4	55	.4	40	24	435	3.70	13	5	ND	3	85	.2	2	2	68	1.07	.135	4	91	1.49	51	.18	2	1.53	.03	.45	1	6
A 11544	1	108	2	74	.2	37	27	976	6.31	2	5	ND	2	56	.4	2	2	178	.83	.102	4	103	3.76	309	.23	7	3.32	.04	.13	1	3
A 11545	4	19	4	15	.3	5	5	206	1.52	9	7	ND	4	47	.2	2	2	33	.41	.057	6	7	.26	78	.14	2	.44	.04	.12	1	4
A 11546	3	21	3	21	.2	5	10	572	2.40	2	5	ND	6	11	.2	2	2	35	.20	.045	11	5	.61	70	.06	4	.57	.04	.12	1	5
A 11547	1	95	3	55	.5	40	25	443	3.82	12	8	ND	3	90	.2	2	2	70	1.08	.142	4	95	1.52	54	.19	3	1.52	.04	.47	1	7
A 11548	1	103	5	91	.3	43	31	1053	6.96	4	5	ND	3	50	.6	2	2	145	1.75	.105	5	96	2.22	38	.09	2	2.06	.02	.09	1	11
A 11549	1	104	2	48	.2	20	20	533	4.68	2	5	ND	2	67	.2	2	2	111	1.12	.113	4	56	1.57	27	.22	2	1.57	.03	.39	1	11
A 11550	1	38	5	65	.1	16	11	670	2.44	4	5	ND	1	324	.2	2	2	49	.86	.073	3	25	1.19	25	.13	2	1.69	.02	.19	1	2
A 11551	1	27	2	46	.3	18	14	452	2.64	5	5	ND	2	193	.2	2	2	87	1.58	.110	3	32	1.06	57	.28	7	1.60	.06	.24	1	4
A 11552	3	71	7	59	.5	12	6	550	5.14	19	6	ND	2	107	.2	2	2	111	.76	.125	3	41	1.48	80	.26	3	1.55	.04	.32	1	14
A 11553	1	60	5	52	.2	20	13	522	3.38	14	5	ND	2	164	.3	2	2	95	1.52	.137	3	40	1.49	51	.28	5	1.87	.04	.40	1	5
A 11554	1	92	2	90	.2	30	26	1086	6.64	5	5	ND	2	97	.5	2	2	168	1.81	.125	6	91	3.52	69	.19	4	3.13	.02	.17	1	2
A 11555	1	65	4	74	.4	13	17	712	4.26	9	7	ND	2	135	.2	2	2	104	1.15	.119	3	17	1.79	48	.26	2	1.88	.05	.11	1	5
A 11556	1	92	2	60	.4	17	16	637	3.60	5	5	ND	2	108	.2	2	2	94	1.54	.119	3	25	1.52	39	.28	6	1.92	.03	.22	1	1
A 11557	1	87	4	59	.3	32	25	715	5.51	8	5	ND	3	127	.3	2	2	124	.94	.130	4	81	2.30	48	.26	8	2.05	.03	.13	1	2
A 11558	1	36	3	44	.2	15	12	501	4.36	9	5	ND	1	130	.2	2	2	93	1.10	.133	4	35	1.37	50	.30	3	1.56	.03	.07	1	10
A 11559	1	36	3	64	.2	7	12	696	4.50	7	5	ND	3	128	.3	2	2	85	1.04	.140	5	9	1.33	39	.23	3	1.58	.04	.10	1	1
A 11560	1	210	2	59	.2	9	22	713	5.37	2	5	ND	1	98	.2	2	2	156	1.45	.032	2	3	1.75	51	.26	4	2.11	.01	.26	1	8
A 11561	1	12	23	76	.2	6	10	914	3.35	2	5	ND	3	226	.2	2	2	89	1.23	.100	9	6	.85	44	.17	4	1.03	.07	.13	1	17
A 11562	2	38	7	43	.3	13	7	474	3.25	18	5	ND	1	166	.2	2	2	81	1.12	.123	3	31	1.30	42	.23	4	1.55	.03	.35	1	4
A 11563	2	7	6	23	.1	3	1	270	1.36	3	5	ND	2	37	.2	2	2	8	.20	.023	5	7	.25	41	.08	3	.45	.02	.14	1	6
A 11564	1	151	4	72	.3	9	13	959	4.36	4	5	ND	2	87	.2	2	2	121	1.25	.148	7	7	.93	52	.22	5	1.19	.04	.15	1	7
A 11565	1	129	5	71	.4	7	18	880	4.58	6	5	ND	3	60	.2	2	2	117	1.53	.147	7	5	1.11	42	.21	2	1.26	.03	.10	1	4
A 11566	1	78	5	45	.3	22	12	466	4.04	6	5	ND	2	145	.2	2	2	96	1.19	.117	3	66	1.29	62	.29	18	1.54	.05	.09	1	6
STANDARD C/AU-R	19	60	38	131	7.1	70	33	1049	3.93	43	18	6	39	52	18.5	15	18	56	.47	.084	40	58	.88	176	.09	32	1.92	.06	.15	11	470

ICP - .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 SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1-P2 ROCK P3-P6 SOIL AU** ANALYSIS BY FA/ICP FROM 10 GM SAMPLE.
Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 22 1991 DATE REPORT MAILED: Sept 4/91. SIGNED BY ..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

AMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
11567	4	129	2	94	.6	34	15	819	5.89	7	5	ND	2	109	.2	2	2	129	1.14	.152	5	72	2.36	68	.24	5	2.43	.06	.21	1	75
11568	1	341	2	84	.6	11	23	775	7.24	8	5	ND	1	135	.5	2	2	170	2.13	.378	6	5	2.05	61	.16	6	2.45	.03	.14	1	9
11569	1	51	2	64	.3	15	15	681	4.55	3	6	ND	3	134	.2	2	2	92	1.15	.165	6	27	1.58	37	.19	2	1.80	.05	.11	1	2
11570	1	33	2	58	.2	26	8	589	5.09	7	5	ND	1	173	.2	2	2	131	1.38	.135	4	78	2.20	67	.32	4	2.48	.04	.38	1	6
11571	1	43	2	65	.1	10	12	754	3.95	4	5	ND	1	164	.2	2	2	79	1.14	.164	6	18	1.67	43	.19	2	1.94	.05	.16	1	2
11572	1	40	2	91	.2	9	13	702	2.94	2	5	ND	2	188	.2	2	2	54	1.40	.169	6	7	1.20	52	.16	2	1.90	.05	.15	1	1
11573	2	23	4	34	.2	9	3	286	3.69	10	5	ND	2	79	.2	2	2	78	.90	.150	5	13	.60	57	.25	4	.95	.06	.14	1	13
11574	1	80	3	65	.3	10	14	631	4.74	2	5	ND	3	86	.2	2	2	110	1.26	.159	7	8	1.16	39	.24	2	1.48	.05	.09	1	18
11575	1	80	2	57	.2	7	13	531	4.89	4	5	ND	1	70	.2	2	2	136	1.35	.162	7	5	.80	46	.22	10	1.26	.06	.12	1	6
11576	1	90	2	73	.2	7	12	689	4.36	2	5	ND	1	99	.2	2	2	117	1.15	.119	4	4	1.01	48	.23	9	1.41	.05	.12	1	4
11577	1	268	2	90	.5	12	29	766	6.28	3	5	ND	1	129	.2	2	2	170	1.24	.037	2	4	2.07	52	.30	6	2.33	.03	.09	1	7
11578	1	174	2	84	.4	13	29	672	8.22	2	5	ND	2	198	.2	2	2	180	1.51	.067	2	7	1.70	35	.28	5	2.26	.02	.07	1	6
11579	1	558	2	77	.6	18	33	771	8.85	3	5	ND	1	118	.4	2	2	258	1.23	.043	2	10	1.61	41	.26	3	1.86	.02	.06	1	4
11580	1	131	7	85	.2	7	19	774	5.15	2	5	ND	2	74	.3	2	2	151	1.71	.174	7	5	1.21	116	.23	5	1.71	.05	.13	1	3
11581	1	92	2	52	.2	4	20	1454	5.34	3	5	ND	2	169	.2	2	2	70	3.72	.150	9	2	1.19	750	.02	7	.53	.04	.29	1	3
11582	1	149	2	70	.7	13	14	535	4.67	4	5	ND	3	111	.5	2	2	91	1.30	.166	6	16	1.00	81	.22	4	1.60	.05	.10	1	9
11583	1	82	2	47	.2	6	8	517	3.83	7	5	ND	2	135	.2	2	2	102	1.58	.174	4	4	.76	35	.23	6	1.49	.03	.09	1	6
11584	2	98	2	53	.2	10	10	457	4.00	3	5	ND	2	106	.2	2	2	72	1.17	.144	4	16	1.02	45	.15	3	1.79	.04	.14	1	6
11585	1	139	2	68	.2	9	12	821	4.88	4	5	ND	2	47	.2	2	2	137	1.34	.158	8	8	.95	57	.23	6	1.28	.05	.14	1	3
RE A 11582	1	154	2	71	.5	13	14	543	4.80	3	5	ND	2	114	.2	2	2	95	1.37	.172	6	16	1.03	80	.22	7	1.60	.05	.11	1	6
11586	1	118	2	75	.3	7	17	700	5.18	3	5	ND	3	66	.2	2	2	138	1.30	.162	8	4	1.00	59	.22	5	1.35	.05	.14	1	6
11587	1	87	2	60	.2	8	14	514	4.66	3	5	ND	2	80	.2	2	2	124	1.31	.154	7	6	.84	45	.22	4	1.41	.05	.14	1	7
11588	1	115	2	76	.2	7	11	680	4.87	3	5	ND	2	57	.2	2	2	137	1.25	.143	6	3	1.05	91	.24	5	1.52	.05	.14	1	8
11589	1	36	2	128	.1	29	17	802	4.16	6	5	ND	1	102	.2	2	2	103	1.04	.124	2	77	2.30	66	.30	5	2.27	.04	.46	1	2
11590	1	70	12	120	.4	39	21	790	4.40	8	5	ND	2	144	.5	2	2	118	1.55	.162	4	64	1.89	96	.27	3	2.31	.07	.74	1	3
11591	5	24	5	45	.2	6	4	294	3.24	15	5	ND	1	138	.2	2	2	50	.93	.169	2	4	1.26	55	.20	3	1.48	.05	.25	1	9
11592	1	88	2	79	.1	20	22	869	5.02	4	5	ND	1	108	.2	2	2	107	1.34	.140	4	64	2.19	62	.24	2	2.37	.03	.10	1	6
11593	1	131	2	61	.2	9	17	478	3.08	3	5	ND	1	207	.2	2	2	71	1.23	.106	2	9	1.38	55	.21	9	2.09	.04	.23	1	10
11594	1	110	2	60	.3	24	23	699	5.46	5	5	ND	2	93	.2	2	2	129	1.40	.132	5	66	2.07	41	.26	4	2.17	.06	.53	1	4
11595	1	98	2	77	.3	8	15	682	4.81	2	5	ND	2	54	.2	2	2	146	1.38	.134	6	5	1.08	46	.25	4	1.48	.04	.14	1	2
11596	3	85	3	62	.2	8	17	515	5.83	8	5	ND	1	68	.2	2	2	106	1.06	.105	3	4	1.09	66	.20	4	1.50	.06	.19	1	14
11597	1	124	2	72	.2	10	21	701	5.22	2	5	ND	2	79	.2	2	2	155	1.35	.156	7	7	1.20	45	.23	3	1.71	.05	.14	1	8
11598	3	39	2	46	.1	10	10	463	3.65	4	5	ND	1	90	.2	2	2	103	1.28	.105	5	37	.95	118	.24	4	1.41	.04	.11	1	4
11599	2	68	4	67	.2	5	10	619	4.42	7	5	ND	2	82	.2	2	2	78	.84	.164	5	7	1.26	106	.20	7	1.84	.06	.22	1	4
11600	1	178	3	59	.3	12	17	609	5.98	5	5	ND	3	68	.2	2	2	125	1.07	.181	6	11	.89	47	.21	12	1.13	.05	.11	1	2
STANDARD C/AU-R	18	60	37	132	7.4	73	33	1051	3.98	40	20	6	40	52	18.4	16	19	56	.48	.089	39	60	.88	179	.09	34	1.90	.06	.14	13	498

Samples beginning 'RE' are duplicate samples.

MPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
17N 131+00E	11	162	24	278	3.3	26	16	541	8.74	12	5	ND	2	72	.5	2	2	166	.32	.345	8	65	.97	127	.24	2	3.33	.02	.14	1	156
17N 134+50E	3	381	8	132	.7	32	62	1198	5.41	9	5	ND	1	85	.4	2	2	80	1.27	.179	11	48	.76	150	.13	4	2.68	.02	.11	1	17
B116N 137+00E	2	423	10	72	.8	29	22	525	4.47	8	5	ND	1	88	.2	2	2	93	.99	.082	11	36	.60	310	.20	3	2.73	.02	.07	1	34
17N 135+50E	2	471	8	113	1.7	41	22	2125	4.85	12	5	ND	1	59	.2	2	2	120	1.06	.099	16	70	1.13	318	.12	4	3.22	.02	.11	1	37
17N 148+50E	8	745	17	155	1.4	44	39	2067	7.53	24	5	ND	1	56	.5	2	4	150	1.18	.124	14	65	1.52	112	.22	5	3.49	.02	.21	1	35
17N 149+50E	11	305	12	132	1.1	35	25	1514	5.32	10	5	ND	1	85	.8	2	2	110	1.54	.128	11	54	.87	110	.12	5	2.87	.02	.13	1	16
16N 131+50E	2	249	11	151	1.3	30	27	983	6.71	7	5	ND	1	84	.4	2	2	135	1.01	.186	8	52	1.28	85	.25	2	2.75	.03	.22	1	12
16N 137+00E	2	430	8	73	.8	28	22	528	4.58	5	5	ND	1	90	.2	2	3	94	1.00	.084	11	36	.61	312	.20	3	2.77	.02	.08	1	56
16N 137+50E	10	369	6	97	1.1	16	16	1014	7.93	27	5	ND	1	43	.2	2	2	151	.70	.122	11	21	.42	171	.04	3	2.86	.01	.08	1	19
16N 138+50E	2	457	7	105	3.0	33	21	2687	4.24	8	6	ND	1	107	.8	2	2	64	2.22	.376	27	44	.59	724	.05	5	3.34	.02	.11	1	23
16N 148+00E	5	1790	13	119	4.2	50	26	1856	6.36	15	5	ND	1	81	1.6	2	6	127	1.62	.151	41	64	.86	181	.12	2	3.87	.02	.17	1	30
15N 139+50E	1	495	11	171	1.5	49	23	1751	4.99	8	5	ND	1	84	.8	2	2	82	1.44	.159	15	88	1.02	519	.07	4	3.21	.02	.14	1	10
15N 148+00E	4	507	11	123	2.4	40	27	1012	6.02	9	5	ND	1	75	1.1	2	2	117	1.21	.117	13	65	.83	162	.13	2	3.13	.02	.12	1	12
15N 148+50E	3	357	7	77	1.0	21	12	400	5.48	9	5	ND	1	95	.2	2	2	117	1.07	.054	12	54	.70	99	.23	2	2.34	.01	.09	1	20
14N 138+50E	6	278	8	121	1.5	27	20	611	4.85	13	5	ND	1	91	.6	5	2	86	2.12	.109	13	43	.35	196	.10	3	3.91	.01	.06	1	8
14N 139+00E	8	466	7	103	1.0	38	23	807	6.21	26	5	ND	1	75	.2	2	2	130	.94	.083	10	84	1.13	94	.21	2	3.62	.02	.08	1	64
14N 143+00E	2	227	9	82	.7	27	9	280	3.10	8	5	ND	1	77	.6	2	2	80	1.12	.170	27	51	.62	202	.06	2	2.98	.02	.10	1	12
14N 148+50E	3	504	10	157	1.9	40	26	1818	5.64	7	5	ND	1	67	.7	2	2	104	1.12	.162	14	67	.86	171	.11	3	3.08	.02	.14	1	6
14N 149+00E	3	314	10	116	1.6	30	32	1737	5.07	8	5	ND	1	80	.5	2	2	99	1.02	.117	12	64	.80	114	.13	4	2.49	.02	.11	1	9
14N 149+50E	2	174	7	121	1.1	33	21	1159	5.21	9	5	ND	1	76	.2	2	2	102	.89	.154	11	69	.86	114	.19	5	2.44	.02	.14	1	14
13N 143+00E	1	485	10	128	.6	61	30	1038	6.93	13	5	ND	1	88	.2	3	3	140	1.23	.130	11	108	1.79	152	.24	4	3.58	.03	.25	1	23
11N 136+50E	6	136	9	186	.5	21	26	1402	6.61	9	5	ND	1	190	.7	2	2	135	.86	.259	8	35	1.35	348	.22	2	2.71	.02	.32	1	238
11N 139+00E	4	189	15	177	.4	84	50	1283	10.61	18	5	ND	1	24	.2	2	2	136	.22	.174	11	105	1.15	428	.07	2	3.48	.01	.28	1	27
11N 141+00E	1	432	2	94	1.5	107	36	1002	6.47	8	5	ND	1	139	.2	3	2	139	1.02	.073	8	325	2.26	113	.23	3	2.97	.01	.12	1	3
11N 143+00E	3	266	8	89	1.2	31	13	367	2.73	6	5	ND	1	70	.8	2	2	58	1.60	.062	10	37	.44	146	.08	5	1.51	.01	.12	1	8
11N 143+50E	2	361	9	88	1.9	30	24	1126	4.81	9	5	ND	1	79	.5	2	2	109	1.33	.077	14	70	.80	103	.19	4	2.50	.02	.10	1	12
10N 140+50E	3	424	7	101	.3	44	18	539	5.66	12	5	ND	2	59	.2	2	2	114	.38	.066	10	63	1.10	87	.25	4	4.16	.02	.14	1	20
10N 144+00E	4	504	11	135	2.9	51	34	1115	6.29	8	5	ND	1	71	.6	2	2	114	.74	.161	15	82	.92	189	.09	4	3.57	.02	.19	1	41
10N 145+50E	3	220	8	155	1.2	57	32	1271	5.67	7	5	ND	1	67	.2	2	2	110	.93	.134	13	95	1.31	199	.11	4	3.57	.02	.19	1	34
10N 146+00E	3	225	6	120	1.5	49	34	2028	4.90	5	5	ND	1	78	.3	2	2	102	.94	.157	14	109	.95	172	.12	7	2.37	.02	.12	1	2
10N 149+00E	2	273	25	119	.7	32	19	1031	5.54	6	5	ND	1	61	.2	2	2	115	.81	.144	13	61	.84	134	.17	2	2.77	.01	.08	1	5
09N 138+00E	4	672	27	190	2.2	50	35	2744	4.95	8	5	ND	1	72	4.3	2	2	84	1.18	.232	17	60	.73	140	.08	5	2.90	.02	.14	1	13
09N 139+00E	4	566	13	133	1.4	43	25	1521	4.97	10	5	ND	1	64	2.9	2	2	91	1.05	.119	12	51	.67	132	.11	3	2.18	.01	.13	1	11
09N 139+50E	4	228	12	221	1.7	34	31	886	7.89	20	5	ND	1	110	.4	5	2	146	.73	.125	4	74	2.23	191	.33	5	2.97	.03	.74	1	3
09N 140+00E	4	146	8	135	.6	36	29	704	7.33	17	5	ND	1	59	.2	4	2	135	.69	.242	5	73	1.55	102	.24	2	2.63	.02	.20	1	72
09N 144+50E	2	115	10	123	.9	39	17	633	5.73	11	5	ND	1	78	.3	2	2	111	.76	.091	10	102	1.03	103	.23	5	2.40	.02	.14	1	6
ANDARD C/AU-S	18	56	38	132	6.8	71	32	1038	3.94	39	19	6	37	54	18.2	14	18	57	.48	.091	37	58	.88	177	.09	34	1.89	.06	.15	13	47

mples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
B108N 145+50E	1	487	13	204	2.8	87	33	1429	6.29	8	5	ND	1	58	1.2	2	2	99	.90	.094	12	94	1.53	293	.10	2	4.24	.02	.25	1	13
B108N 146+00E	2	361	7	139	1.5	61	29	1711	5.04	7	5	ND	1	65	1.4	2	4	85	1.07	.083	16	76	1.16	220	.08	3	2.95	.02	.17	1	15
B107N 141+50E	4	190	9	87	.7	35	120	1285	4.26	7	5	ND	1	54	.2	2	2	83	.57	.043	6	63	.89	44	.17	5	1.54	.01	.08	1	36
RE B108N 146+00E	1	352	5	135	1.6	58	29	1682	4.94	6	5	ND	1	64	1.4	2	2	84	1.04	.081	16	75	1.14	207	.08	3	2.86	.01	.17	1	18

Samples beginning 'RE' are duplicate samples.

MPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
118N 135+50E	2	646	9	159	2.6	62	32	2245	6.80	15	5	ND	1	30	.2	2	2	233	.75	.074	8	147	3.05	132	.23	2	2.89	.01	.15	1	99
117N 131+00E	12	222	9	210	1.8	25	16	642	8.19	19	5	ND	1	68	.4	2	2	158	.29	.133	4	51	1.66	78	.32	2	3.47	.02	.23	1	18
117N 133+50E	3	373	5	145	1.3	39	47	2636	4.54	7	5	ND	1	73	.8	2	2	74	1.10	.191	11	53	.65	105	.05	2	2.39	.01	.08	1	21
117N 134+50E	2	222	2	88	.6	31	44	769	4.42	9	5	ND	1	60	.2	2	2	62	.92	.122	9	45	.71	104	.08	3	2.25	.02	.08	1	17
117N 148+50E	8	636	14	130	1.3	35	32	1815	6.84	20	5	ND	1	47	.9	2	2	136	1.11	.102	13	56	1.25	96	.20	2	2.74	.01	.18	1	31
117N 149+50E	3	127	5	71	.3	21	18	821	3.74	7	5	ND	1	86	.2	2	2	88	.93	.094	8	41	.89	77	.20	2	1.73	.03	.09	1	13
116N 131+50E	2	205	4	135	.8	34	30	984	6.19	4	5	ND	1	77	.4	2	2	118	.91	.130	5	58	1.48	80	.21	3	2.69	.04	.27	1	11
116N 136+50E	4	212	5	84	.4	22	17	483	3.87	5	5	ND	1	84	.2	2	2	74	.65	.123	7	36	.67	153	.09	2	2.46	.01	.09	1	10
116N 137+00E	1	298	4	46	.2	23	15	550	2.67	4	5	ND	1	51	.2	2	2	63	.60	.039	8	35	.63	141	.18	2	1.65	.03	.06	1	10
116N 137+50E	5	796	5	73	2.0	25	15	1803	5.82	14	5	ND	1	43	.4	2	2	65	.92	.155	16	31	.33	128	.04	2	3.61	.01	.05	1	82
116N 138+50E	1	145	6	66	.9	23	14	1139	3.28	6	5	ND	1	62	.3	2	2	61	1.04	.084	12	40	.72	331	.10	2	1.84	.03	.09	1	10
116N 139+00E	1	95	3	142	.5	18	15	759	5.16	4	5	ND	1	35	.2	2	2	92	.45	.132	11	33	.91	214	.08	2	2.31	.01	.08	1	11
116N 139+50E	1	394	18	194	1.3	24	35	2794	5.21	6	5	ND	1	76	1.1	2	2	64	1.34	.313	16	25	.93	476	.03	2	3.07	.01	.08	1	13
116N 148+00E	1	401	10	100	.6	35	21	829	5.93	12	5	ND	1	68	.2	2	2	116	.88	.083	13	68	1.14	139	.19	2	2.96	.02	.15	1	19
116N 149+00E	2	242	4	111	.8	24	21	615	6.16	8	5	ND	1	58	.3	2	2	107	.80	.102	7	53	.88	72	.20	2	2.43	.01	.09	1	15
115N 139+50E	1	122	2	85	.3	111	27	611	4.60	6	5	ND	1	80	.2	2	2	98	1.13	.181	6	291	2.87	118	.22	2	2.65	.02	.30	1	6
115N 148+00E	2	222	6	93	.6	28	20	752	4.09	6	5	ND	1	57	.3	2	3	90	.76	.062	11	55	.93	90	.19	2	1.99	.02	.08	1	20
115N 148+50E	3	358	6	72	.7	24	22	596	5.44	11	5	ND	1	80	.3	2	2	112	.74	.048	8	54	1.02	110	.22	2	2.42	.01	.08	1	33
114N 138+50E	3	792	4	161	1.5	31	25	1078	4.26	14	5	ND	1	84	.8	3	2	56	2.22	.105	17	53	.51	178	.07	2	4.98	.01	.05	1	24
114N 139+00E	5	650	3	100	.9	36	31	1120	4.79	16	5	ND	1	52	.5	2	2	89	1.05	.071	11	71	.82	80	.11	2	3.62	.02	.07	1	73
114N 143+00E	1	89	9	67	.2	22	9	296	2.24	7	5	ND	1	57	.2	2	2	64	.65	.070	14	43	.68	337	.11	2	1.93	.02	.07	1	13
114N 148+50E	1	84	5	62	.4	23	15	741	3.25	5	5	ND	1	60	.2	2	2	78	.68	.043	8	51	.72	71	.22	5	1.51	.03	.07	1	11
114N 149+00E	10	329	11	84	.5	30	43	1036	6.48	13	5	ND	1	92	.4	2	2	108	.83	.105	7	65	1.26	122	.21	3	2.34	.01	.12	1	26
114N 149+50E	2	101	7	82	.4	28	20	882	4.45	8	5	ND	1	72	.2	2	2	94	.76	.106	8	65	.92	74	.20	2	1.92	.02	.11	1	13
113N 143+00E	1	274	4	117	.6	64	26	750	6.17	11	5	ND	1	73	.2	2	2	118	.99	.092	7	154	1.76	121	.21	6	2.95	.02	.16	1	44
111N 136+50E	7	264	10	141	.6	28	49	1546	7.22	11	5	ND	1	457	.8	2	2	112	1.03	.248	5	33	1.17	539	.09	2	3.13	.02	.22	1	40
111N 139+00E	4	135	11	140	.5	66	43	1340	8.88	16	5	ND	1	29	.5	2	2	108	.34	.149	9	76	.94	569	.05	3	3.09	.01	.20	1	10
111N 141+00E	1	168	2	76	.4	141	34	602	6.40	3	5	ND	1	92	.2	4	2	112	1.01	.193	5	518	3.39	51	.22	2	2.71	.01	.38	1	10
111N 143+00E	1	205	6	126	.5	44	23	837	4.24	9	5	ND	1	54	.4	2	4	90	.73	.048	12	64	.93	146	.19	3	2.31	.02	.12	1	94
111N 143+50E	1	304	10	97	1.1	34	21	763	5.17	9	5	ND	1	64	.2	2	4	119	.93	.045	12	76	1.15	95	.23	3	2.48	.02	.10	1	12
110N 140+50E	4	401	11	101	.3	44	41	760	5.65	21	5	ND	2	62	.2	2	4	113	.31	.065	9	60	1.12	84	.25	2	3.54	.01	.12	1	15
110N 144+00E	1	226	8	124	.6	44	30	1004	5.14	8	5	ND	1	56	.2	2	2	105	.63	.096	9	78	1.17	126	.16	2	2.91	.02	.16	1	13
110N 145+50E	3	192	8	144	1.3	51	26	928	5.21	8	5	ND	1	58	.2	2	2	103	.80	.117	13	89	1.30	172	.09	2	3.24	.02	.17	1	8
110N 146+00E	1	76	6	84	.4	36	15	628	4.08	8	5	ND	1	63	.2	2	2	90	.68	.087	8	76	1.07	84	.20	6	1.99	.02	.11	1	10
PB111N 143+50E	1	320	5	100	1.2	36	21	774	5.37	10	5	ND	1	65	.3	2	2	122	.96	.046	12	79	1.17	100	.23	2	2.53	.02	.10	1	22
110N 149+00E	2	225	22	106	.6	32	25	1046	5.18	7	5	ND	1	59	.2	2	2	102	.84	.103	9	57	1.00	98	.11	2	2.79	.01	.07	1	9
STANDARD C/AU-S	17	58	35	132	6.8	70	33	1038	3.93	41	19	7	37	54	18.5	15	17	55	.48	.091	36	58	.88	175	.09	34	1.88	.06	.15	11	49

amples beginning 'RE' are duplicate samples.

MPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
109N 138+00E	2	245	22	178	.8	47	28	1602	4.58	7	5	ND	1	49	2.2	2	3	81	.69	.085	9	62	1.19	126	.09	4	2.61	.01	.12	1	8
109N 139+00E	1	141	8	78	.2	30	17	789	3.43	3	5	ND	1	45	.6	2	2	68	.59	.070	8	38	.81	73	.13	4	1.66	.01	.09	1	13
109N 139+50E	4	214	51	188	.9	38	21	774	6.55	13	5	ND	1	66	.2	2	2	135	.60	.075	3	79	2.53	159	.24	2	2.78	.02	.87	1	6
108N 140+00E	8	198	12	100	.6	33	46	735	6.90	22	5	ND	1	42	.9	2	2	107	.50	.142	3	56	1.05	69	.16	4	2.14	.01	.14	1	52
108N 144+50E	1	74	11	77	.5	33	17	479	3.86	9	5	ND	1	41	.2	2	2	75	.47	.066	6	64	.93	61	.13	2	1.87	.01	.10	1	6
PB108N 140+00E	7	191	5	97	.6	32	45	721	6.78	20	6	ND	1	41	.3	2	2	106	.49	.139	3	56	1.01	67	.16	2	2.10	.01	.13	1	46
108N 145+50E	1	159	3	108	.6	51	23	863	4.42	6	5	ND	1	46	.7	2	2	85	.70	.065	6	107	1.46	120	.12	3	2.29	.01	.17	1	10
108N 146+00E	1	54	8	64	.2	28	16	602	3.12	7	5	ND	1	42	.2	2	2	67	.56	.059	7	55	.84	67	.13	6	1.32	.01	.08	1	11
107N 141+50E	4	145	6	70	.3	28	44	748	4.41	7	5	ND	1	64	.2	2	2	87	.60	.052	5	60	1.02	44	.19	4	1.57	.01	.14	1	11
ANDARD C/AU-S	19	59	36	132	7.1	70	33	1046	3.98	41	18	7	38	52	19.0	15	18	54	.48	.091	38	59	.88	178	.09	34	1.89	.06	.15	13	50

mples beginning 'RE' are duplicate samples.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER ... 1R6 PH ... (60 ... 3-3 FAX ... 04)? 171

GEOCHEMICAL ANALYSIS CERTIFICATE

Rio Algom Exploration Inc. PROJECT 9021 File # 91-3882 Page 1

P.O. Box 10335, 1650 - 60, Vancouver BC V7Y 1G5 Submitted by: W. DONALDSON

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
A 11601	1	71	4	50	.1	10	22	388	5.77	5	5	ND	1	83	.2	2	2	179	1.52	.177	2	3	.90	126	.19	3	1.64	.06	.22	1	7
A 11602	1	72	2	49	.1	21	20	434	5.05	2	5	ND	1	71	.2	2	2	111	.88	.122	2	68	1.31	31	.17	2	1.53	.05	.10	1	8
A 11603	1	71	5	52	.1	29	19	433	5.07	2	5	ND	1	73	.3	2	2	107	.88	.123	2	83	1.29	45	.18	2	1.41	.05	.17	1	9
A 11604	1	117	6	71	.2	29	30	689	5.05	2	5	ND	1	49	.2	2	2	182	1.27	.065	2	16	1.74	120	.32	2	2.20	.17	.17	1	5
A 11605	1	42	6	28	.3	9	14	424	2.09	4	5	ND	1	135	.2	2	2	58	1.16	.111	2	10	.56	44	.17	3	1.23	.06	.06	1	4
A 11606	1	134	2	60	.1	22	22	590	4.48	2	5	ND	1	44	.2	2	2	107	1.37	.110	2	22	1.48	105	.20	2	2.57	.15	.92	1	2
A 11607	1	137	5	42	.3	13	24	431	3.93	6	5	ND	1	92	.4	2	2	83	1.11	.137	2	23	.88	67	.19	2	1.46	.08	.11	1	6
A 11608	4	119	7	86	.3	18	11	652	5.10	6	5	ND	1	92	.6	2	2	108	.78	.114	2	70	1.08	65	.23	2	1.69	.07	.16	1	4
A 11609	1	131	2	79	.3	42	21	828	3.79	2	5	ND	1	46	.2	2	2	75	1.05	.072	2	50	1.73	111	.14	2	2.01	.10	.72	1	2
A 11610	1	54	4	48	.1	10	13	458	4.03	2	5	ND	1	81	.2	2	2	80	1.14	.164	2	21	.98	67	.13	2	1.55	.06	.14	1	7
A 11611	1	103	6	69	.1	8	18	656	5.96	2	5	ND	1	50	.2	2	2	157	1.04	.161	2	6	1.20	54	.20	2	1.49	.05	.11	1	6
A 11612	1	71	2	120	.1	11	24	1425	6.10	2	5	ND	1	53	.5	2	2	175	1.23	.153	6	6	2.06	97	.05	2	2.29	.04	.26	1	4
A 11613	1	110	4	60	.1	108	26	542	3.72	5	5	ND	1	134	.4	2	2	82	1.01	.144	2	252	2.91	44	.13	2	2.48	.03	.19	1	5
A 11614	1	117	2	44	.1	22	20	767	4.10	4	5	ND	1	50	.2	2	2	113	1.29	.101	2	27	1.23	97	.18	2	1.83	.14	.20	1	4
A 11615	1	92	4	34	.1	15	18	400	4.81	4	5	ND	1	66	.5	2	2	123	1.13	.127	2	45	1.09	69	.23	2	1.46	.05	.22	1	6
RE A 11620	1	102	2	84	.1	13	25	840	5.19	2	5	ND	1	123	.6	2	2	133	.96	.120	2	9	2.00	31	.24	2	2.53	.05	.07	1	8
A 11616	1	38	4	21	.1	10	13	250	2.80	2	5	ND	1	162	.2	2	2	85	1.28	.106	2	39	.47	37	.17	4	1.27	.05	.12	1	4
A 11617	1	73	2	25	.2	15	20	332	4.53	2	5	ND	1	69	.3	2	2	112	.94	.117	2	51	1.13	35	.19	2	1.37	.05	.08	1	8
A 11618	1	81	4	57	.1	35	24	593	5.56	2	5	ND	1	102	.6	2	2	95	.87	.121	2	74	1.92	44	.20	2	1.74	.04	.15	1	25
A 11619	1	54	3	67	.1	15	17	580	5.20	4	5	ND	1	96	.6	2	2	141	1.28	.115	2	34	1.60	112	.28	2	2.08	.06	.62	1	7
A 11620	1	98	3	81	.1	13	24	832	5.15	2	5	ND	1	126	.4	2	2	130	.97	.117	2	9	2.00	33	.24	2	2.53	.05	.07	1	13
A 11621	1	477	2	96	.1	16	36	785	8.42	2	5	ND	1	112	1.0	2	2	292	1.06	.030	2	6	1.66	53	.29	2	2.71	.03	.50	1	1
A 11622	1	117	3	62	.1	15	22	581	5.62	3	5	ND	1	75	.4	2	2	132	.85	.087	2	23	1.24	56	.21	2	1.62	.07	.16	1	5
A 11623	1	123	2	62	.1	18	22	495	6.44	2	5	ND	1	173	.8	2	2	249	1.95	.033	2	10	1.08	54	.27	2	2.71	.08	.10	1	6
A 11624	1	30	9	40	.1	22	24	313	4.30	7	5	ND	1	66	.2	2	2	57	.84	.098	2	24	1.31	50	.14	3	1.67	.08	.18	1	10
A 11625	1	69	5	61	.2	13	12	668	4.22	3	5	ND	2	50	.3	2	2	107	1.03	.152	5	24	.90	59	.20	4	1.32	.06	.17	1	4
A 11626	1	119	5	38	.1	6	9	365	3.21	2	5	ND	1	107	.2	2	2	92	.93	.141	2	5	.61	50	.12	2	1.29	.06	.09	1	33
A 11627	1	117	2	44	.2	8	24	545	3.66	4	5	ND	1	85	.2	2	2	85	1.16	.218	2	7	1.26	107	.18	2	1.57	.06	.07	1	11
A 11628	1	61	2	26	.1	22	14	284	2.73	2	5	ND	1	54	.2	2	2	71	.81	.067	2	148	.57	30	.19	2	.86	.05	.06	1	32
A 11629	1	95	2	62	.1	11	14	612	6.08	2	5	ND	1	78	.4	2	2	152	.96	.191	2	9	1.33	39	.18	5	1.69	.06	.11	1	5
A 11630	1	186	2	120	.1	13	21	561	6.39	3	5	ND	1	87	1.4	2	2	239	1.31	.030	2	2	1.37	49	.27	2	2.51	.04	.14	1	33
A 11631	1	138	6	50	.1	8	13	416	3.83	2	5	ND	1	124	.2	2	2	98	.99	.114	2	42	.71	43	.15	2	1.29	.05	.08	1	8
A 11632	1	40	4	60	.1	20	23	499	4.30	2	5	ND	1	82	.4	2	2	137	.86	.034	2	12	1.34	47	.17	2	2.13	.04	.20	1	3
A 11633	1	227	2	77	.1	9	28	840	6.80	6	5	ND	1	139	.9	2	2	244	1.68	.218	2	7	1.99	78	.21	2	2.58	.03	.14	1	11
A 11634	1	167	3	49	.1	10	15	573	4.40	2	5	ND	1	115	.8	2	2	120	1.27	.131	2	6	.71	50	.19	4	1.56	.04	.10	1	4
A 11635	1	164	2	62	.1	11	22	434	6.50	3	5	ND	1	110	.3	2	2	249	1.35	.140	2	5	.78	78	.20	2	1.40	.04	.19	1	7
A 11636	1	124	3	64	.1	10	17	563	4.50	4	5	ND	1	98	.5	2	2	131	1.28	.124	2	11	1.03	101	.23	2	1.77	.04	.12	1	11
STANDARD C/AU-R	17	61	36	132	7.1	73	33	1034	3.92	43	17	7	39	52	17.4	14	21	57	.46	.089	37	57	.84	175	.07	33	1.91	.06	.14	13	478

ICP - .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 SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1-P3 ROCK P4-P7 SOIL AU** ANALYSIS BY FA/ICP FROM 10 GM SAMPLE.
Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 27 1991 DATE REPORT MAILED: Sept 4/91 SIGNED BY ..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

AMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
11637	1	60	9	59	.2	12	20	612	4.84	3	5	ND	1	115	.2	2	2	133	1.49	.146	4	11	1.24	70	.22	6	1.91	.07	.20	1	8
11638	2	104	6	85	.3	13	23	671	4.69	4	5	ND	2	70	.2	2	2	102	1.10	.141	4	22	1.38	127	.21	2	2.00	.08	.20	1	4
11639	1	213	2	92	.6	22	26	721	6.30	4	5	ND	1	84	.2	2	2	141	1.25	.020	2	10	2.40	40	.35	4	2.61	.06	.07	1	7
11640	1	91	4	52	.1	10	19	430	4.52	2	5	ND	1	89	.2	2	2	149	1.45	.180	4	9	.85	97	.20	4	1.64	.10	.16	1	2
11641	2	33	5	44	.2	10	11	427	3.48	5	5	ND	1	72	.2	2	2	77	1.22	.233	6	7	.97	70	.13	5	1.64	.06	.19	1	3
11642	1	90	4	59	.2	23	23	481	4.43	4	5	ND	1	70	.2	2	2	140	1.32	.106	3	30	1.24	97	.25	2	1.87	.09	.67	1	3
11651	1	56	4	61	.2	17	14	550	4.49	3	5	ND	2	82	.2	2	2	92	1.28	.157	5	40	1.15	55	.20	6	1.73	.06	.15	1	2
11652	1	38	8	31	.2	30	18	316	3.06	2	5	ND	1	54	.2	2	2	55	.91	.022	2	79	1.18	15	.13	3	.80	.05	.03	1	9
11653	1	461	6	95	.4	44	34	815	4.17	2	5	ND	1	146	.2	2	4	94	2.43	.016	2	98	2.36	36	.26	5	2.41	.03	.07	1	19
11654	1	406	4	68	.5	14	30	483	5.14	3	5	ND	1	99	.2	2	2	172	1.10	.015	2	12	1.61	28	.25	6	1.91	.03	.07	1	26
11655	1	148	2	78	.2	14	28	561	5.88	2	5	ND	1	163	.2	2	2	196	1.59	.046	2	6	1.39	36	.29	6	1.98	.02	.27	1	6
11656	1	94	4	81	.2	17	36	585	7.12	5	5	ND	1	96	.2	2	2	258	1.16	.017	2	10	1.64	45	.32	3	1.99	.03	.09	1	7
11657	1	645	2	77	.9	19	27	692	5.84	2	5	ND	1	72	.2	2	2	149	.98	.071	2	31	2.09	58	.26	4	2.07	.05	.09	1	26
11658	1	116	3	80	.3	23	31	721	5.64	3	5	ND	1	120	.3	2	2	163	1.44	.036	2	38	2.23	36	.30	4	2.40	.05	.27	1	8
11659	1	19	2	73	.1	24	38	664	8.12	2	5	ND	1	98	.4	2	2	261	1.30	.007	2	26	2.20	30	.31	5	2.56	.03	.29	1	8
11660	1	112	2	69	.4	18	27	596	5.84	2	5	ND	1	118	.4	2	2	210	1.34	.021	2	13	1.55	59	.29	2	2.02	.03	.14	1	11
11661	3	59	9	63	.3	22	26	540	3.84	17	5	ND	1	57	.6	2	2	65	1.09	.095	4	31	1.31	92	.18	5	1.72	.06	.16	1	12
11662	1	67	2	63	.1	20	19	566	5.48	4	5	ND	1	112	.5	2	2	134	1.45	.116	3	44	1.48	37	.27	3	2.01	.06	.14	1	8
11663	2	133	10	32	.3	14	23	356	3.68	9	5	ND	1	100	.2	2	2	74	1.38	.135	3	18	.95	42	.23	4	1.39	.04	.08	1	9
11664	2	101	17	46	.2	24	11	281	3.51	6	5	ND	1	96	.2	2	2	79	1.28	.106	3	66	.81	38	.24	11	1.42	.05	.12	1	5
11665	4	160	6	45	.8	7	10	330	5.04	12	5	ND	1	88	.2	2	2	111	.96	.102	2	16	1.00	47	.46	2	1.39	.07	.15	1	46
11666	1	59	5	26	.2	3	6	337	4.14	13	5	ND	1	103	.2	2	2	126	1.54	.228	2	4	.91	78	.24	2	1.84	.05	.17	1	30
11667	1	121	4	54	.1	7	19	538	5.33	5	5	ND	1	94	.2	2	2	141	1.34	.170	5	5	.96	40	.24	4	1.55	.06	.11	1	4
11668	1	106	5	36	.2	9	15	401	5.63	10	5	ND	1	121	.4	2	2	164	1.53	.100	2	7	.83	55	.28	4	1.90	.05	.14	1	13
11669	1	59	2	56	.1	12	12	550	4.63	5	5	ND	1	70	.2	2	2	130	1.53	.135	4	27	1.25	63	.30	2	1.92	.07	.13	1	44
11670	3	68	2	52	.1	7	10	574	4.30	4	5	ND	1	115	.2	2	2	94	1.30	.150	4	9	1.25	31	.24	3	1.86	.06	.08	1	4
11671	1	35	5	32	.1	10	8	373	3.20	2	5	ND	1	99	.2	2	2	64	1.15	.150	5	15	.98	33	.28	5	1.45	.07	.09	1	5
11672	1	77	2	51	.3	8	15	529	4.70	2	5	ND	2	87	.3	2	2	115	1.52	.148	5	6	.84	46	.24	5	1.35	.06	.12	1	3
11673	1	93	2	62	.1	17	21	511	4.97	5	5	ND	2	95	.3	2	2	136	1.17	.127	5	37	1.34	95	.22	4	1.55	.07	.23	1	5
11674	1	509	2	182	.8	23	33	1102	7.55	2	5	ND	1	78	.4	2	2	198	1.85	.180	3	102	2.54	31	.21	2	2.47	.06	.11	1	17
11675	6	42	3	38	.3	10	9	274	4.76	11	5	ND	1	127	.2	2	2	72	.72	.089	4	49	.66	42	.29	4	1.09	.07	.07	1	17
11676	1	65	2	86	.2	4	12	833	2.94	4	5	ND	2	100	.4	2	2	36	1.19	.188	11	4	.88	56	.18	5	1.50	.07	.19	1	4
11677	1	75	2	74	.2	5	14	687	2.91	5	5	ND	1	163	.2	2	2	59	1.39	.172	6	3	.90	69	.19	5	1.51	.05	.18	1	5
11678	1	73	2	65	.1	39	22	551	5.03	5	5	ND	1	82	.4	2	2	152	.96	.017	2	140	2.12	45	.25	4	2.23	.04	.07	1	4
11679	1	136	2	57	.3	28	27	595	7.70	5	5	ND	1	90	.2	2	2	198	1.25	.092	2	96	1.38	38	.26	2	1.57	.03	.08	1	10
RE A 11676	1	65	2	83	.1	4	10	808	2.90	2	5	ND	2	100	.2	2	2	37	1.18	.184	11	4	.85	56	.18	6	1.49	.07	.20	1	3
11680	1	33	2	94	.1	19	32	612	6.14	6	5	ND	1	139	.3	2	2	197	1.45	.101	2	13	1.69	67	.22	5	2.40	.05	.14	1	1
STANDARD C/AU-R	18	56	36	130	6.7	70	32	1023	3.89	39	19	7	38	54	18.4	15	19	56	.48	.089	38	58	.84	173	.09	34	1.85	.06	.15	11	478

Samples beginning 'RE' are duplicate samples.

AMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
11681	1	134	2	70	.4	15	34	520	6.69	2	5	ND	1	157	.2	2	2	284	1.20	.013	2	15	1.58	40	.35	7	1.98	.04	.11	1	14
11682	3	42	4	14	.1	6	8	224	1.37	2	5	ND	3	61	.3	2	2	35	.52	.034	6	9	.20	47	.14	2	.60	.05	.23	1	5
11683	1	113	2	33	.3	10	19	358	5.13	4	5	ND	1	194	.2	2	2	166	1.60	.065	2	10	.97	43	.27	5	1.76	.04	.13	1	16
11684	1	50	2	40	.3	34	20	446	3.93	4	5	ND	1	91	.2	2	2	138	1.61	.117	3	77	1.56	114	.35	10	1.85	.09	.20	1	3
11685	1	55	2	38	.4	37	23	507	4.42	3	5	ND	1	47	.2	2	2	157	1.49	.116	4	66	1.71	349	.37	8	2.09	.08	.91	1	3
11686	1	36	2	47	.4	31	22	480	4.71	5	5	ND	1	76	.2	2	2	143	1.62	.126	3	67	1.67	96	.34	6	1.86	.08	.25	1	2
11687	5	108	2	25	.3	19	25	268	4.63	10	5	ND	1	47	.2	2	2	109	1.53	.172	5	31	.89	53	.26	12	1.62	.13	.15	1	17
11688	4	78	2	19	.4	18	14	215	4.06	10	5	ND	1	64	.2	2	2	93	1.23	.175	6	51	.85	68	.26	8	1.46	.11	.20	1	10
11689	1	102	2	65	.4	15	25	547	5.06	2	5	ND	1	127	.2	2	2	176	1.73	.163	4	27	1.53	102	.34	9	2.02	.05	.18	1	6
11690	2	72	2	41	.4	9	14	363	4.64	3	5	ND	2	58	.2	2	2	144	1.25	.146	8	17	.89	81	.23	4	1.29	.08	.19	1	3
11691	2	30	2	33	.3	5	4	301	3.51	50	5	ND	1	108	.2	2	3	107	1.04	.151	5	13	.92	63	.30	8	1.44	.09	.15	1	5
11692	2	60	4	41	.3	26	16	337	3.12	8	5	ND	1	95	.2	2	2	91	1.38	.131	5	46	1.04	83	.27	2	1.95	.19	.67	1	3
11693	1	6	3	19	.2	14	5	327	1.76	2	5	ND	1	398	.2	2	2	60	1.22	.067	7	25	.45	52	.19	2	.97	.15	.26	1	13
E A 11691	2	29	2	33	.2	6	4	305	3.52	51	5	ND	1	112	.2	2	2	108	1.06	.155	5	12	.93	62	.30	6	1.45	.09	.15	1	6
11694	1	141	2	19	.3	8	17	236	3.40	5	5	ND	1	68	.2	2	2	103	1.19	.154	4	16	.95	58	.26	4	1.54	.11	.42	1	2
TANDARD C/AU-R	18	62	38	133	7.3	70	33	1046	3.98	41	17	7	41	53	19.0	14	18	62	.48	.090	39	58	.88	178	.09	34	1.89	.07	.15	11	483

amples beginning 'RE' are duplicate samples.

MPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
29N 138+50E	8	1402	6	96	1.3	104	22	343	4.49	4	5	ND	1	45	.2	2	8	88	.60	.075	22	54	.79	111	.06	2	3.69	.02	.11	1	8
29N 141+00E	10	350	8	232	.8	65	24	1050	5.82	10	5	ND	1	66	2.5	2	3	120	1.11	.120	11	54	.62	121	.08	2	2.81	.02	.20	1	9
B127N 150+00E	1	95	4	85	.6	23	16	526	5.82	8	5	ND	1	44	.2	2	2	126	.37	.176	7	53	.90	75	.13	2	2.53	.02	.11	1	13
29N 143+00E	1	53	6	81	.8	16	11	562	4.24	4	5	ND	1	59	.2	2	2	101	.52	.196	7	42	.55	94	.18	3	2.08	.02	.08	1	10
28N 144+00E	4	290	8	160	1.3	39	35	1733	4.85	7	5	ND	1	51	.4	2	3	87	.90	.211	14	54	.94	175	.05	2	3.56	.03	.14	1	7
28N 145+50E	3	403	5	84	3.4	27	18	526	5.10	6	5	ND	1	38	.9	2	3	84	.31	.141	13	49	.50	102	.05	2	3.08	.01	.07	1	12
28N 146+50E	2	283	7	75	2.1	23	13	392	4.28	6	5	ND	1	41	.3	2	2	80	.36	.172	11	43	.62	97	.05	2	2.72	.02	.09	1	8
27N 148+00E	2	149	9	66	.6	19	24	597	5.87	6	5	ND	1	53	.6	2	2	120	.74	.122	9	51	.48	133	.12	2	1.94	.01	.08	1	5
27N 150+00E	1	90	2	80	.4	22	15	495	5.62	5	5	ND	1	43	.2	2	2	122	.36	.166	7	50	.86	72	.13	3	2.44	.02	.10	1	12
26N 127+00E	3	81	2	89	.4	33	16	1240	3.76	4	5	ND	1	68	.2	2	2	87	.80	.069	12	52	.94	166	.12	3	2.68	.03	.16	1	5
26N 130+00E	1	67	3	71	.2	29	17	711	3.78	5	5	ND	1	59	.2	2	2	97	.76	.095	9	47	.92	124	.21	2	2.02	.03	.21	1	4
26N 135+50E	1	150	6	79	1.3	15	12	559	3.67	4	5	ND	1	55	.3	2	2	93	.36	.116	9	34	.38	123	.10	2	1.68	.01	.09	1	17
26N 139+50E	4	300	7	111	1.0	25	29	1907	4.64	9	5	ND	1	56	1.2	2	2	100	.84	.057	13	43	.59	128	.10	2	2.53	.02	.10	1	3
26N 142+50E	1	490	13	148	1.1	26	66	1908	14.03	71	5	ND	1	13	.2	6	3	436	.14	.093	8	25	3.45	53	.45	2	3.76	.01	.30	1	26
26N 143+00E	2	75	17	62	.9	12	10	303	5.38	7	5	ND	1	40	.2	2	2	150	.29	.142	7	34	.38	84	.17	2	2.20	.01	.07	1	6
25N 131+50E	2	248	8	120	1.1	49	29	1343	5.62	11	5	ND	1	74	.4	2	2	123	.83	.120	14	69	1.11	298	.07	3	3.63	.03	.19	1	5
25N 135+50E	2	327	10	114	1.1	24	30	2100	4.53	7	5	ND	1	52	.6	2	3	102	.74	.089	9	43	.69	116	.09	3	2.58	.02	.09	1	15
25N 136+00E	2	219	2	115	.9	21	25	857	4.33	7	5	ND	1	61	.2	2	2	98	.55	.080	8	37	.77	106	.10	2	2.29	.02	.08	1	611
25N 139+50E	1	71	7	63	.9	16	10	303	3.66	4	5	ND	2	36	.2	2	2	99	.34	.059	12	36	.49	69	.18	2	1.76	.01	.07	1	37
25N 140+00E	4	637	10	187	1.8	33	25	2506	3.98	6	5	ND	1	43	2.1	2	5	75	.92	.156	12	41	.53	114	.06	3	2.16	.01	.08	1	29
25N 143+00E	11	316	8	100	1.1	24	27	1205	6.11	13	5	ND	1	48	.2	2	4	141	.69	.059	10	53	.65	104	.20	3	2.71	.01	.09	1	5
24N 133+50E	2	213	10	173	1.5	50	24	1320	5.38	9	5	ND	1	82	1.6	2	2	100	1.83	.164	12	61	1.05	366	.08	5	3.27	.02	.18	1	15
24N 142+00E	1	303	17	118	3.3	15	28	635	8.61	13	5	ND	1	53	.2	2	2	246	.47	.213	4	23	1.30	72	.24	2	2.58	.01	.18	1	5
24N 144+50E	4	397	11	113	1.5	27	31	1983	4.88	8	5	ND	1	59	1.2	2	3	99	1.47	.137	10	44	.57	118	.07	2	2.29	.01	.11	1	5
24N 148+00E	1	89	3	76	.3	21	12	429	5.20	8	5	ND	1	43	.3	2	2	117	.41	.099	7	45	.52	105	.12	2	2.26	.02	.07	1	6
24N 149+00E	3	385	13	125	2.0	42	65	2270	5.60	13	5	ND	2	27	.2	2	2	102	.21	.371	17	78	.70	171	.08	4	8.61	.02	.12	1	12
23N 138+00E	2	658	10	149	4.3	54	25	1313	5.57	10	5	ND	1	49	.5	2	5	101	.59	.148	22	61	.99	289	.05	2	4.65	.02	.12	1	18
23N 144+00E	2	184	26	120	1.0	37	27	575	6.40	21	5	ND	1	41	.2	2	2	172	.32	.074	5	83	1.58	76	.23	5	3.22	.02	.18	1	22
23N 145+00E	1	510	12	85	1.0	21	18	485	5.39	11	5	ND	1	47	.3	2	4	102	.50	.095	11	39	.55	108	.13	2	2.33	.01	.09	1	6
22N 130+50E	2	93	6	60	.9	16	9	276	4.38	8	5	ND	1	49	.2	2	3	107	.38	.101	6	48	.46	71	.20	3	2.06	.01	.07	1	8
22N 132+50E	1	101	7	97	.7	25	18	651	3.95	6	5	ND	1	59	.2	2	2	89	.79	.075	7	38	.78	229	.11	3	2.29	.02	.07	1	9
22N 133+00E	1	334	6	87	1.3	25	18	721	3.74	8	5	ND	1	79	.8	2	2	82	.78	.105	10	34	.54	237	.07	3	2.02	.02	.09	1	5
21N 126+50E	1	360	7	112	1.6	51	34	1439	3.24	5	5	ND	1	81	1.9	2	2	70	1.37	.142	13	37	.37	120	.04	3	1.55	.02	.07	1	44
21N 144+50E	1	75	4	77	.6	25	14	516	4.09	5	5	ND	1	41	.2	2	2	85	.35	.085	10	45	.76	104	.11	2	2.32	.02	.10	1	6
21N 148+50E	10	379	13	170	1.3	49	62	1788	5.57	13	5	ND	1	48	1.2	2	3	102	.78	.102	9	54	.71	101	.09	2	2.29	.01	.12	1	18
20N 132+00E	1	85	7	69	.8	27	12	324	3.59	6	5	ND	1	28	.2	2	2	82	.25	.066	8	43	.64	95	.13	2	3.45	.01	.07	1	3
20N 135+50E	2	96	10	69	1.1	20	11	299	6.92	12	5	ND	1	38	.2	2	2	97	.21	.347	8	47	.41	108	.11	2	3.91	.02	.07	1	8
TANDARD C/AU-S	18	60	41	136	7.4	72	32	1062	3.99	41	19	7	39	52	18.0	15	19	59	.50	.090	40	58	.88	180	.09	35	1.89	.07	.16	13	48

amples beginning 'RE' are duplicate samples.

AMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
120N 138+00E	3	356	5	97	1.8	50	32	453	4.17	9	5	ND	1	30	.4	2	2	61	.27	.160	15	46	.54	153	.05	3	4.11	.01	.07	1	12
120N 147+50E	2	408	9	90	.7	33	26	743	4.66	10	5	ND	1	41	.2	2	2	92	.58	.070	12	48	.69	70	.13	4	2.77	.01	.08	1	9
120N 148+00E	5	230	48	135	1.3	33	25	1626	5.15	26	5	ND	1	66	1.8	2	2	129	1.05	.122	8	47	.57	80	.11	2	1.90	.01	.11	1	9
120N 150+00E	3	237	7	81	1.1	27	17	465	4.91	9	5	ND	1	57	.4	2	2	107	.90	.085	10	47	.57	79	.13	2	2.03	.01	.07	1	24
E B120N 147+50E	2	397	7	90	.7	32	26	742	4.60	11	5	ND	1	41	.5	2	2	93	.58	.069	13	47	.70	67	.13	4	2.75	.01	.09	1	7

amples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
PB129N 138+50E	3	302	6	61	.1	48	15	533	3.55	3	5	ND	2	46	.2	2	2	81	.60	.032	11	44	.79	77	.17	4	1.79	.03	.07	1	10
PB129N 141+00E	5	154	5	163	.1	40	23	938	4.68	9	5	ND	1	71	1.2	2	2	102	.94	.081	9	47	.85	82	.15	4	2.20	.02	.10	1	20
PB129N 143+00E	2	98	7	78	.5	28	18	596	4.33	9	5	ND	2	68	.4	2	2	98	.73	.136	9	43	.87	87	.17	5	2.45	.03	.09	1	14
PB128N 144+00E	3	141	5	92	.2	33	19	704	4.47	13	5	ND	1	63	.3	2	2	93	.73	.107	10	47	.95	135	.15	6	2.65	.03	.12	1	62
PB128N 145+50E	4	160	2	97	.6	26	65	1966	4.96	4	5	ND	1	34	.4	2	2	85	.35	.099	10	52	.59	79	.10	3	4.91	.01	.07	1	15
PB128N 146+50E	2	120	4	77	.2	24	17	596	4.88	7	5	ND	1	70	.2	2	2	111	.61	.053	7	50	.98	80	.18	5	2.55	.02	.09	1	9
PB127N 148+00E	2	132	6	87	.3	26	32	794	6.17	12	5	ND	1	58	.3	2	2	121	.90	.144	10	61	.82	101	.11	5	2.72	.01	.08	1	228
PB127N 150+00E	2	107	5	80	.2	25	16	627	5.51	5	5	ND	2	50	.2	2	2	107	.44	.074	9	52	1.04	74	.15	5	2.93	.02	.11	1	11
PB126N 127+00E	3	110	4	86	.1	44	19	991	4.77	9	5	ND	2	77	.2	2	2	104	1.05	.103	12	61	1.37	183	.22	6	2.72	.04	.33	1	11
PB126N 130+00E	1	107	5	87	.1	41	21	912	4.51	7	5	ND	2	82	.2	2	2	104	1.03	.103	12	58	1.36	190	.21	5	2.63	.05	.35	1	6
PB126N 135+50E	2	243	9	125	1.0	24	27	1142	6.67	5	5	ND	2	53	.5	2	2	159	.49	.146	8	37	1.42	123	.20	4	2.91	.01	.12	1	14
PB126N 136+50E	2	387	9	233	.9	18	21	680	7.34	17	5	ND	2	62	.8	2	2	175	.50	.225	5	27	1.12	88	.21	3	4.13	.01	.11	1	24
PB126N 139+50E	2	329	5	75	.2	39	20	763	4.42	7	5	ND	1	64	.7	2	3	95	.76	.048	11	49	1.01	125	.17	4	2.91	.02	.11	1	13
PB126N 142+50E	3	277	8	146	.4	31	49	1204	10.96	51	5	ND	2	26	.6	2	2	357	.21	.121	6	33	3.19	93	.32	4	4.21	.01	.21	1	26
PB126N 143+00E	3	111	8	70	.9	15	12	331	6.03	9	6	ND	1	46	.3	2	2	131	.30	.118	7	35	.49	90	.13	2	3.09	.01	.07	1	7
PB125N 131+50E	1	63	7	66	.2	23	12	649	3.22	7	5	ND	1	48	.3	2	2	78	.53	.042	11	42	.77	98	.15	6	1.73	.02	.08	1	2
PB125N 135+50E	2	125	6	61	.3	23	18	765	3.74	8	5	ND	1	71	.5	2	2	93	.75	.053	8	41	.79	82	.19	4	2.06	.03	.08	1	14
PB125N 136+00E	5	340	5	132	1.1	24	59	1555	6.03	31	5	ND	1	73	.5	2	2	127	.65	.113	7	34	1.10	131	.12	3	2.96	.02	.07	1	3633
PB125N 139+50E	2	128	9	89	.4	25	15	415	5.20	7	5	ND	4	40	.3	2	2	110	.38	.071	14	47	.82	69	.17	2	2.59	.01	.09	1	17
PB125N 140+00E	3	269	9	110	.7	33	25	1402	4.69	11	5	ND	3	70	1.6	2	2	100	.87	.079	11	44	.94	111	.15	6	2.37	.03	.10	1	13
PB125N 142+50E	4	195	9	135	.6	10	34	1047	8.36	14	5	ND	1	104	.6	2	2	222	1.00	.154	4	16	.50	132	.21	3	1.75	.02	.05	10	11
PB125N 143+00E	8	376	9	93	.7	36	29	974	5.90	12	5	ND	2	66	.5	2	2	120	.77	.064	11	45	1.01	119	.17	5	3.43	.02	.11	1	99
PB124N 133+50E	2	97	7	72	.3	27	19	792	4.09	8	5	ND	2	85	.4	2	2	101	1.10	.102	11	43	.83	131	.19	4	1.85	.04	.11	1	16
PB124N 135+00E	3	315	8	76	2.0	19	23	954	4.19	11	5	ND	1	83	.7	2	2	79	.78	.185	10	33	.44	120	.06	5	2.12	.01	.10	1	29
PB124N 142+00E	1	619	5	158	3.4	19	32	891	10.40	10	5	ND	1	82	1.0	2	2	308	.96	.163	3	15	2.53	91	.30	6	4.26	.02	.32	1	10
PB124N 143+00E	3	410	12	137	1.7	28	21	1719	4.26	9	5	ND	1	38	1.0	2	2	87	1.00	.114	9	42	.61	107	.06	4	2.52	.01	.08	1	5
PB124N 144+50E	2	136	9	76	.3	26	21	792	4.22	8	5	ND	1	66	.4	2	2	97	.87	.060	9	41	.92	89	.17	5	2.18	.02	.09	1	10
RE PB124N 133+50E	2	79	6	68	.2	24	18	746	3.82	7	5	ND	2	79	.4	2	2	95	1.03	.095	10	40	.78	123	.18	5	1.69	.03	.11	1	14
PB124N 148+00E	2	83	4	90	.1	28	18	617	4.84	8	5	ND	1	51	.3	2	2	95	.55	.093	10	44	.84	96	.13	4	3.78	.02	.09	1	13
PB124N 149+00E	3	343	4	198	.8	73	57	2900	6.52	11	5	ND	2	39	.9	2	2	115	.31	.125	16	85	1.53	304	.09	4	7.61	.02	.22	1	11
PB123N 138+00E	2	263	9	108	1.2	44	19	796	4.71	9	5	ND	1	52	.6	2	2	84	.49	.074	17	55	1.06	178	.08	4	3.48	.02	.11	1	13
PB123N 144+00E	5	186	26	129	1.1	46	30	684	6.40	15	6	ND	3	54	.6	2	2	153	.40	.070	8	86	1.80	102	.23	5	3.92	.02	.25	1	16
PB123N 145+00E	2	424	6	73	.5	22	30	691	6.70	12	5	ND	1	64	.6	2	2	112	.52	.099	8	30	.92	123	.09	2	3.49	.02	.15	1	18
PB122N 130+50E	3	113	7	71	.6	18	11	343	5.08	9	5	ND	1	57	.3	2	2	115	.44	.093	8	52	.61	74	.20	4	2.60	.02	.07	1	27
PB122N 132+50E	1	111	8	103	.6	27	20	780	4.21	7	5	ND	1	68	.4	2	2	91	.85	.083	9	41	.85	212	.13	4	2.58	.02	.08	1	10
PB122N 133+00E	1	176	9	84	.8	28	15	639	3.89	5	11	ND	1	75	.6	2	2	85	.74	.084	9	40	.91	161	.12	4	2.37	.02	.10	1	9
PB122N 135+50E	3	86	9	103	.6	26	14	402	5.64	26	5	ND	2	34	.6	2	2	96	.23	.107	9	46	.79	103	.10	4	2.89	.01	.09	1	59
STANDARD C/AU-S	19	60	39	133	7.1	69	33	1044	3.87	41	24	6	41	52	18.7	16	21	56	.47	.081	40	57	.89	173	.09	32	1.88	.06	.15	11	48

Samples beginning 'RE' are duplicate samples.

AMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
3121N 126+50E	1	148	8	162	.7	50	32	1114	5.47	5	5	ND	1	62	.2	2	2	118	.94	.072	7	69	1.26	144	.23	4	2.59	.03	.15	1	20
3121N 144+50E	1	98	6	91	.3	31	17	750	5.15	7	5	ND	1	50	.2	2	2	98	.48	.095	10	56	1.07	119	.20	3	2.90	.02	.12	1	17
3121N 148+50E	8	288	15	195	.5	53	60	1521	6.24	11	5	ND	1	65	.6	2	2	110	.85	.084	7	61	1.05	122	.14	3	2.74	.02	.15	1	44
3121N 149+50E	5	209	11	104	.8	21	28	1103	5.35	5	5	ND	1	72	.7	2	2	87	1.81	.256	8	40	.37	85	.06	4	1.67	.01	.07	1	10
3120N 132+00E	1	111	7	77	.4	44	15	500	3.89	9	5	ND	2	36	.2	2	2	84	.38	.079	9	56	.90	122	.20	4	3.54	.02	.09	1	11
3120N 135+50E	3	135	5	81	.5	37	13	437	5.83	9	5	ND	2	36	.2	2	2	89	.28	.096	8	55	.83	99	.22	5	3.74	.02	.11	1	29
E PB121N 148+50E	8	293	14	192	.6	53	59	1470	6.17	9	5	ND	1	66	.4	2	2	109	.82	.084	8	62	1.02	121	.14	3	2.71	.02	.14	1	50
3120N 138+00E	2	173	7	94	.4	50	33	721	4.45	6	5	ND	1	45	.2	2	2	78	.37	.068	11	59	.85	153	.12	3	2.89	.02	.10	1	14
3120N 147+50E	3	429	10	103	1.0	34	32	893	5.07	8	5	ND	1	52	.2	2	2	99	.70	.080	12	51	.66	79	.16	4	2.94	.02	.10	1	8
3120N 148+00E	5	248	32	149	1.2	40	35	2123	5.77	18	5	ND	1	85	1.2	2	2	121	1.11	.110	10	58	.89	108	.13	3	2.62	.02	.14	1	18
3120N 150+00E	4	394	8	102	1.0	43	39	785	6.39	13	5	ND	1	67	.5	2	3	122	.84	.105	13	65	1.11	119	.14	5	3.44	.02	.12	1	28
TANDARD C/AU-S	18	60	42	131	7.3	70	32	1033	3.93	43	16	7	39	52	18.8	14	17	58	.48	.089	40	58	.88	175	.09	33	1.87	.07	.15	11	48

amples beginning 'RE' are duplicate samples.

GEOCHEMICAL ANALYSIS CERTIFICATE

Rio Algom Exploration Inc. PROJECT 9021 File # 91-4020 Page 1

P.O. Box 10335, 1650 - 60, Vancouver BC V7Y 1G5 Submitted by: W. DONALDSON

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
A 11643	2	56	2	54	.2	35	22	530	4.23	3	5	ND	1	84	.7	2	2	103	1.94	.120	6	76	1.95	29	.23	8	2.51	.04	.07	1	18
A 11644	1	166	9	44	.3	11	19	580	4.84	5	5	ND	2	59	.9	2	2	94	2.06	.149	6	18	1.11	80	.18	6	1.97	.07	.16	1	10
A 11645	1	59	2	99	.2	27	32	1017	7.83	2	5	ND	1	116	1.9	2	2	160	1.38	.114	7	34	1.90	66	.02	5	2.28	.03	.17	1	4
A 11646	4	104	2	99	.2	34	24	680	3.56	24	5	ND	1	67	.6	2	2	57	1.30	.101	2	53	2.39	38	.16	10	2.44	.03	.15	1	3
A 11647	1	34	2	36	.2	63	18	436	4.18	9	5	ND	1	43	.6	2	2	101	1.34	.094	4	34	2.00	167	.30	9	2.72	.06	.82	1	3
A 11648	2	109	4	42	.3	18	16	479	3.39	4	5	ND	1	89	.4	2	2	89	1.65	.138	4	16	1.20	48	.26	6	1.94	.07	.21	1	3
A 11649	1	1620	2	38	.8	34	60	385	7.86	12	5	ND	1	80	2.1	2	2	166	1.59	.106	2	50	1.46	64	.15	2	2.52	.08	.13	1	19
A 11650	1	116	3	45	.3	15	20	427	5.09	4	5	ND	2	67	.7	2	2	134	.92	.118	5	17	1.28	29	.18	2	1.43	.04	.11	1	5
A 11695	1	63	2	62	.3	17	22	895	4.68	3	5	ND	2	77	1.1	2	2	105	1.14	.125	4	34	1.99	41	.23	21	2.27	.05	.09	1	2
A 11696	1	55	3	40	.2	12	14	628	4.36	5	5	ND	1	261	.9	2	2	117	2.20	.109	3	10	1.44	28	.29	8	2.30	.07	.17	1	2
A 11697	1	132	2	60	.1	21	20	746	4.55	2	5	ND	1	101	.7	2	2	106	1.44	.124	4	36	1.59	61	.21	4	1.98	.09	.23	1	6
A 11698	1	78	3	53	.2	10	13	367	3.58	2	5	ND	1	82	.5	2	2	120	1.71	.124	6	8	.68	57	.26	4	1.98	.12	.43	1	5
A 11699	1	61	2	50	.1	25	19	667	4.49	2	5	ND	1	70	1.0	2	2	110	1.81	.136	6	39	1.69	62	.21	5	2.25	.15	.28	1	4
A 11700	1	70	2	45	.2	16	17	563	3.95	8	5	ND	1	143	.8	2	2	111	1.48	.101	3	18	1.57	56	.34	11	2.10	.05	.09	1	2
A 11701	1	89	2	51	.3	97	22	577	3.46	23	5	ND	1	26	.5	2	2	70	1.49	.085	2	129	2.70	97	.21	4	2.62	.04	.30	1	1
A 11702	1	52	2	27	.2	21	13	388	2.84	2	5	ND	1	40	.3	2	2	90	1.15	.095	3	26	1.15	97	.25	3	1.41	.11	.31	1	1
RE A 11698	1	75	3	49	.2	9	12	349	3.41	2	5	ND	1	79	.5	2	2	116	1.63	.117	6	7	.65	55	.26	4	1.91	.12	.43	1	4
A 11703	1	63	2	43	.2	16	12	428	4.73	3	5	ND	1	90	.5	2	2	109	1.11	.102	4	24	1.23	82	.27	2	2.58	.14	.36	1	2
A 11704	2	54	3	27	.1	106	17	255	2.32	5	5	ND	1	168	.2	2	2	39	1.77	.084	2	45	1.19	32	.21	2	2.97	.27	.07	1	2
A 11705	2	65	2	44	.1	16	14	408	3.58	5	5	ND	2	80	.7	2	2	92	1.17	.117	7	15	.97	134	.25	4	2.22	.15	.75	1	1
A 11706	2	63	3	29	.2	17	13	226	2.60	3	5	ND	2	37	.2	2	2	50	1.54	.103	6	11	.48	32	.22	5	1.43	.07	.12	1	1
A 11707	1	124	2	71	.1	102	28	553	4.27	2	5	ND	1	136	.7	2	2	84	1.09	.150	4	271	2.70	26	.14	3	2.37	.03	.13	1	1
A 11708	1	51	2	56	.1	16	18	619	4.18	5	5	ND	1	52	.6	2	2	118	1.85	.095	2	19	1.52	63	.28	7	2.56	.07	.19	1	3
A 11709	1	60	2	45	.1	10	15	605	4.53	2	5	ND	2	105	.7	2	2	83	1.68	.166	7	12	1.14	49	.18	3	1.69	.04	.28	1	1
A 11710	1	46	2	45	.1	10	12	694	3.09	2	5	ND	1	201	.4	2	2	96	2.05	.107	4	9	1.02	37	.28	11	1.69	.09	.11	1	1
A 11711	3	46	2	30	.3	12	11	264	3.77	13	5	ND	2	60	.4	2	2	75	1.23	.145	6	32	1.12	57	.23	4	1.47	.04	.22	1	9
A 11712	1	63	2	28	.3	34	24	318	4.26	3	5	ND	2	52	.5	2	2	139	1.16	.083	4	93	1.58	139	.31	2	1.70	.03	.26	1	16
A 11713	1	54	2	25	.2	22	10	253	3.74	14	5	ND	2	52	.5	2	2	107	1.02	.109	5	71	1.09	86	.27	5	1.56	.04	.25	1	6
A 11751	1	199	2	31	.2	10	18	442	4.37	4	5	ND	1	81	.7	2	2	99	1.89	.196	5	8	1.25	61	.20	3	2.34	.11	.54	1	5
A 11752	2	82	2	29	.1	16	16	354	3.72	21	5	ND	1	80	.5	2	2	71	.92	.099	2	26	1.31	97	.19	2	1.66	.05	.09	1	7
STANDARD C/AU-R	18	57	37	128	7.5	70	32	1028	3.92	40	20	6	37	53	18.7	14	18	57	.49	.083	37	58	.86	174	.09	34	1.91	.06	.16	11	468

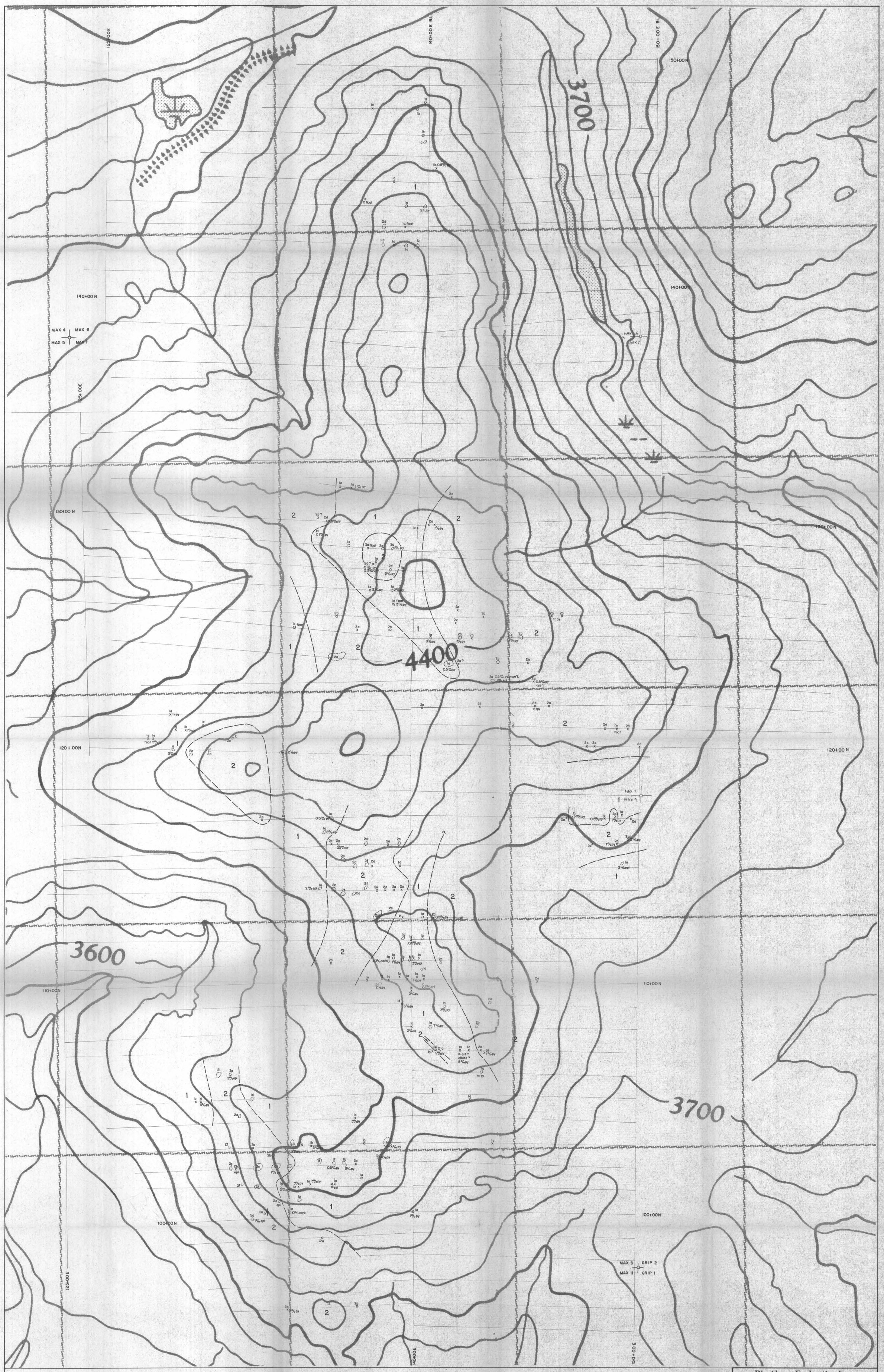
ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1 ROCK P2-3 SOIL AU** ANALYSIS BY FA/ICP FROM 10 GM SAMPLE.
Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 30 1991 **DATE REPORT MAILED:** Sept 6/91. **SIGNED BY.....** D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
B148N 137+50E	3	255	5	93	.1	37	17	517	4.44	6	5	ND	1	57	.2	2	2	98	.67	.061	8	47	.75	115	.13	2	2.85	.01	.10	1	4
B148N 138+00E	4	563	8	95	.4	24	24	733	5.74	4	5	ND	1	93	.2	2	2	104	.95	.128	12	38	.50	139	.08	2	2.92	.01	.04	3	6
B148N 138+50E	5	154	4	79	.5	28	23	674	8.49	2	5	ND	1	40	.2	2	2	159	.53	.091	15	52	.72	108	.06	2	3.75	.01	.11	1	4
B147N 137+00E	3	780	6	157	1.1	60	21	1613	5.19	8	5	ND	1	92	1.0	2	2	102	2.23	.106	17	68	1.11	202	.09	8	3.46	.02	.22	1	11
B145N 140+00E	9	300	12	91	1.0	49	45	958	12.65	110	6	ND	1	139	.2	3	3	143	1.32	.224	4	83	.76	102	.14	31	1.69	.03	.05	3	2
B144N 138+50E	8	318	5	83	.5	56	22	579	5.86	10	5	ND	1	66	.2	2	2	122	.56	.117	8	56	1.28	145	.21	4	3.67	.02	.10	3	8
B141N 141+00E	5	182	5	86	.6	31	20	1139	4.82	8	5	ND	1	80	.3	2	2	107	1.25	.076	9	56	1.11	119	.16	5	2.75	.03	.15	2	10
B137N 130+50E	2	49	4	75	.2	19	11	359	3.99	3	5	ND	1	61	.2	2	2	92	.67	.141	6	39	.73	98	.18	2	2.21	.03	.08	1	9
B137N 131+00E	2	76	4	130	.2	27	19	565	5.67	6	5	ND	1	60	.2	2	4	116	.73	.260	6	51	1.13	131	.18	2	2.97	.03	.16	1	5
B136N 130+50E	2	41	3	80	.2	25	11	342	4.24	7	5	ND	1	40	.2	2	2	87	.46	.169	7	43	.66	93	.14	2	2.24	.02	.04	1	2
B136N 131+00E	2	54	9	83	.2	28	12	399	3.97	7	5	ND	1	50	.2	2	2	87	.49	.110	8	49	.87	89	.15	2	2.28	.02	.07	1	7
B131N 136+50E	3	48	10	89	.4	24	11	423	4.96	10	5	ND	1	50	.5	2	2	106	.62	.236	10	50	.91	101	.14	3	2.55	.03	.08	1	5
B131N 137+00E	2	63	4	73	.2	24	10	387	5.12	8	5	ND	1	42	.2	2	2	108	.46	.081	9	52	.76	87	.19	2	2.53	.02	.05	2	6
B131N 140+50E	5	215	9	107	1.2	32	26	913	4.88	13	5	ND	1	67	.7	2	2	117	.80	.060	13	52	.72	149	.16	2	2.45	.02	.10	1	7
RE B136N 131+00E	2	69	8	83	.2	30	12	429	4.04	7	5	ND	1	52	.2	2	2	89	.51	.107	8	53	.88	92	.15	4	2.29	.02	.07	1	5
B131N 141+50E	9	679	17	114	2.0	43	33	1196	5.57	11	5	ND	1	82	1.1	2	2	107	1.18	.096	13	55	.85	193	.12	2	2.65	.02	.18	1	17
B130N 135+00E	76	135	199	274	1.5	16	10	1033	6.48	9	5	ND	1	66	.2	2	6	161	.34	.083	12	60	1.73	199	.30	2	2.30	.03	.78	1	9
B130N 140+50E	7	104	14	113	.6	20	18	701	5.76	7	5	ND	1	151	.2	2	3	122	.57	.132	6	48	.90	113	.19	2	2.59	.02	.13	1	7
STANDARD C/AU-S	19	60	37	132	7.4	73	32	1101	4.01	42	18	7	38	52	18.5	17	21	56	.49	.091	39	59	.89	188	.10	32	1.90	.07	.13	11	47

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au*** ppb
PB148N 137+50E	3	474	10	101	.3	53	28	956	5.54	9	5	ND	1	104	.2	3	2	119	1.02	.084	10	58	1.26	135	.15	4	3.98	.02	.19	1	12
PB148N 138+00E	4	732	10	80	.2	29	34	808	5.50	5	5	ND	1	120	.3	3	2	96	1.25	.172	12	35	.77	154	.06	2	3.62	.01	.01	1	7
PB148N 138+50E	3	242	3	98	.6	37	25	1267	6.90	6	5	ND	1	73	.6	5	2	115	1.36	.121	28	50	.73	129	.07	2	4.63	.01	.01	1	6
PB147N 137+00E	2	122	5	67	.1	30	13	588	3.46	5	5	ND	1	59	.2	2	2	75	.87	.046	11	45	.73	82	.16	4	1.79	.02	.02	1	7
PB145N 140+00E	16	452	9	81	.7	65	89	945	15.91	150	8	ND	1	115	.2	12	3	96	1.18	.162	3	76	.71	66	.11	32	1.68	.03	.01	1	4
PB144N 138+50E	6	256	2	72	.3	76	30	596	5.91	17	5	ND	1	99	.2	5	2	115	.69	.064	6	67	1.83	195	.29	7	3.86	.02	.24	1	2
PB141N 141+00E	3	110	6	61	.1	30	18	719	4.14	5	5	ND	1	84	.2	2	2	102	1.04	.054	7	48	1.13	82	.24	3	2.11	.03	.11	1	5
PB137N 130+50E	2	47	3	62	.1	27	12	366	3.55	9	5	ND	1	55	.2	2	2	79	.59	.085	8	43	.74	72	.18	4	2.02	.02	.01	1	8
PB137N 131+00E	2	88	7	90	.1	29	26	762	5.21	10	5	ND	1	66	.2	2	2	107	.77	.210	6	49	1.09	110	.19	2	2.97	.03	.23	1	395
PB136N 130+50E	2	40	5	80	.1	30	13	394	3.91	10	5	ND	1	40	.2	4	2	80	.47	.093	8	46	.71	81	.16	3	2.46	.02	.01	1	24
PB136N 131+00E	3	54	10	76	.1	21	16	1776	3.85	6	5	ND	1	49	.4	2	2	87	.46	.082	9	48	.60	105	.16	2	2.10	.02	.07	1	11
PB131N 136+50E	3	63	11	98	.1	27	16	608	4.08	9	5	ND	1	52	.2	3	2	91	.61	.115	9	47	.91	93	.16	4	2.55	.02	.06	1	24
PB131N 137+00E	2	44	7	56	.1	27	13	558	3.43	8	5	ND	1	45	.2	2	2	79	.53	.061	10	44	.73	78	.18	3	1.92	.02	.01	1	17
PB131N 140+50E	3	167	8	81	.1	36	22	819	4.42	7	5	ND	1	63	.2	2	2	112	.74	.039	9	55	.96	102	.20	3	2.09	.02	.01	1	19
PB131N 141+50E	6	220	14	89	.4	32	26	884	5.08	7	5	ND	1	66	.5	2	2	115	.89	.048	7	52	1.01	98	.20	3	2.10	.02	.06	1	24
PB130N 135+00E	29	154	89	212	.9	15	8	1488	6.64	2	5	ND	1	67	.2	4	2	176	.35	.085	9	48	2.22	88	.36	2	2.25	.03	2.51	1	9
PB130N 140+50E	4	142	8	109	.6	21	15	505	5.52	10	5	ND	1	425	.5	5	2	111	.82	.129	5	48	1.12	164	.18	2	3.28	.02	.18	1	8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140+00E BL
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3600
MAX 4
MAX 6
MAX 5
MAX 7
MAX 7
MAX 7
MAX 9
MAX 9
GRIP 2
MAX 11
GRIP 1
1
2
2 INTRUSIVE
a diorite
b biotite diorite
c hornblende diorite
d plagioclase porphyry diorite
e megacrystic diorite
f monzodiorite
g biotite syenite
h gabbro
i pyroxenite
1 VOLCANIC
a andesitic flow
b augite porphyry flow
c plagioclase - augite porphyry flow
d hornblende porphyry flow
e hornblende plagioclase porphyry flow
f crowded hornblende + pyroxene (?) porphyry flow
g laminated tuff
h volcanic tuff
OUTCROP, SMALL OUTCROP
SUBCROP
JOINT
GEOLOGIC CONTACT
py Pyrite
cpy Chalcopyrite
epi Epidote
K Feldspar
N.T.S. 93N-1E, 93K-16E
SCALE 1:5000
100 50 0 100 200 300 400 Metres
Rio Algom Exploration Inc.
MAX PROPERTY
GEOLOGY
OMINECA M.D., B.C.
DATE
NOV. 1991
DRAWN BY
WD, JAM/Chong
DWG.
MAP 3

A.R. 21873

3700

4400

3600

Cu ANOMALY I

125+00E

130+00N

140+00N

150+00N

120+00N

110+00N

100+00N

MAX 4 MAX 6
MAX 5 MAX 7

200,40 B-Horizon (20-30cm depth) – Cu ppm, Au ppb
200,40 Pit base (60cm depth) – Cu ppm, Au ppb

N.T.S. 93N-1E, 93K-16E
SCALE 1:5000
100 50 0 100 200 300 400 Metres

Rio Algom Exploration Inc.

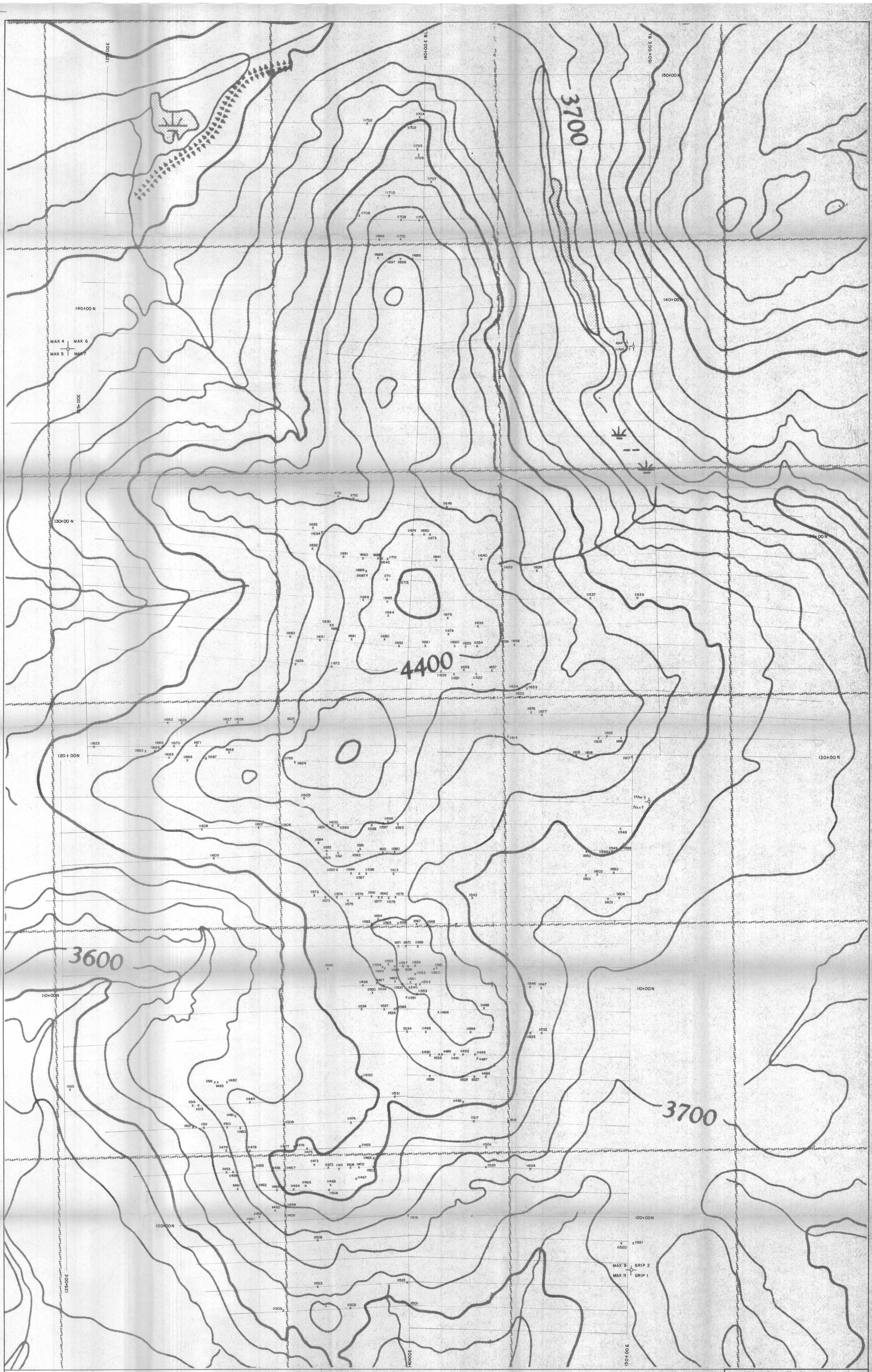
MAX PROPERTY

SOIL GEOCHEMICAL RESULTS

OMINECA M.D., B.C.

DATE	DRAWN BY	DWG.
NOV. 1991	WD, JAM/ Chong	MAP 4

A.R. 21873



LEGEND

x 11511 ROCK SAMPLE LOCATION & Nº.

N.T.S. 93N-1E, 93K-16E

SCALE 1:5000

100 50 0 100 200 300 400 Metres

Rio Algom Exploration Inc.

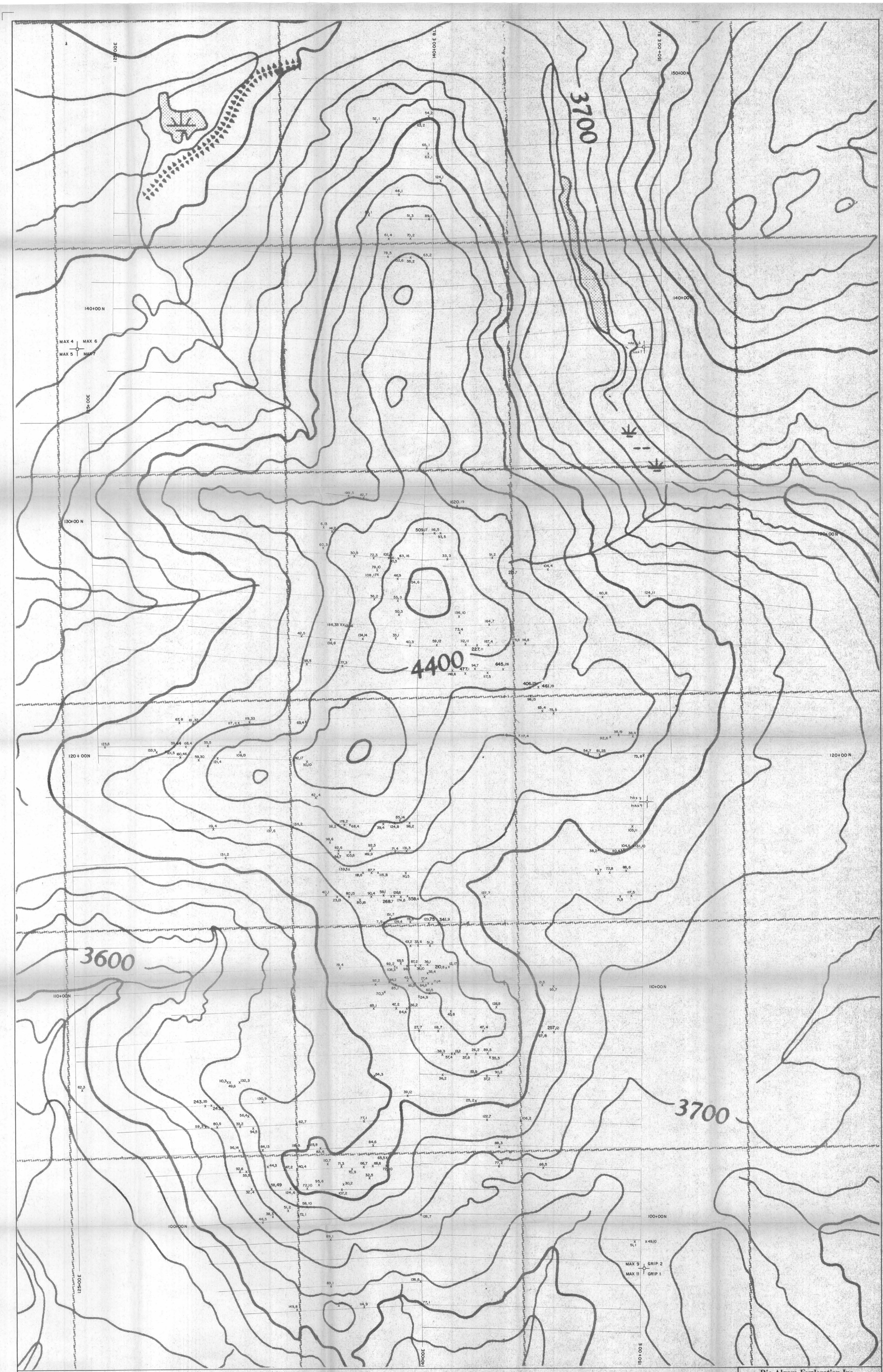
MAX PROPERTY

ROCK SAMPLE LOCATIONS

OMINECA M.D., B.C.

DATE	DRAWN BY	DWG.
NOV. 1991	WD, JAM/Chong	MAP 5

A.R. 21873



LEGEND

x ROCK SAMPLE LOCATION
38,3 Cu ppm, Au ppb

ANOMALOUS VALUES : ≥200ppm Cu , 40 ppb Au

N.T.S. 93N-1E, 93K-16E

SCALE 1:5000

100 50 0 100 200 300 400 Metres

Rio Algom Exploration Inc.

MAX PROPERTY

ROCK ASSAY RESULTS

OMINECA M.D., B.C.

DATE	DRAWN BY	DWG.
NOV. 1991	WD, JAM/Chong	MAP6

A.R. 21873