Soil Geochemical, Geophysical and Diamond Drilling Assessment Report AKIE claims

NTS 94F/7W

Omineca Mining Division

Latitude 57° 22' N
Longitude 124° 51' W

Owners: Ecstall Mining Corporation, Metall Mining Corporation
Operator: Metall Mining Corporation

AKIE North Group	AKIE South Group
Akie 1	Akie 7
Akie 2	Akie 8
Akie 3	Akie 9
Akie 4	Akie 13
Akie 5	Akie 15
Akie 6	Akie 16
Akie 11	Akie 17
Akie 12	
Akie 14	

Paul Baxter
Metall Mining Corporation

April, 1995
Vancouver, B.C.

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1. INTRODUCTION

In June of 1992, Metall Mining Corporation (formerly Minnova Inc.) optioned the AKIE claims in the southern Gataga district from Ecstall Mining Corporation to assess their potential for hosting a SEDEX-style Ba-Pb-Zn-Ag massive sulphide deposit. This report describes the results of a 955 sample soil geochemical survey, a 20.1 line km Mag-VLF geophysical survey and a 12 hole, 3753.2 m diamond drill program carried out on a the AKIE claims during the period of June 15, 1994 to September 24, 1994.

1.1. Location, Access and Physiography

The AKIE claims are located in the western ranges of the Rocky Mountains, 250 km northwest of MacKenzie, B.C. and 25 km southeast of the Cirque Deposit. (Figure 1) The claims were accessed using a Pacific Western Bell 206B helicopter which for the described program was based at the Finbow logging camp 35 km to the southwest.

Topographic relief on the AKIE claims is moderate to steep with elevations ranging from 850 m in the Akie River valley to 1980 m on mountain tops. Tree line occurs at approximately 1700 m ASL. The alpine is a mix of talus and grassy slopes. Creek valleys and treed slopes are covered by a dense forest of pine, balsam and spruce.

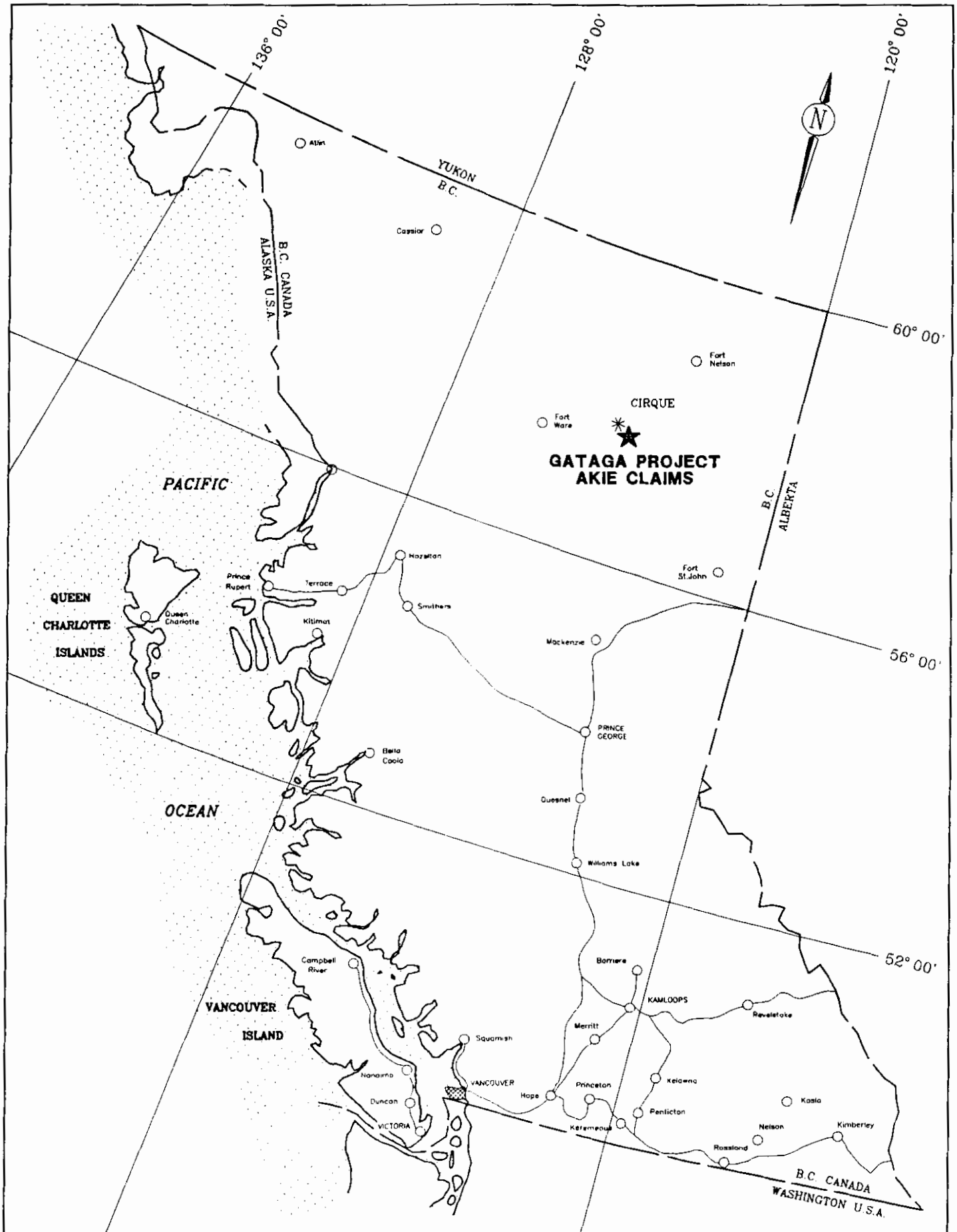


FIGURE 1

GATAGA PROJECT LOCATION MAP

GATASS

1.2. Mineral Rights

The AKIE claims have been divided into two groups - AKIE NORTH and AKIE SOUTH (Figure 2). The status of the claims is as follows:

AKIE NORTH GROUP

Claim	Record No.	Units	Month of Record
AKIE 1	240791	3	June
AKIE 2	240792	6	June
AKIE 3	240793	3	June
AKIE 4	324822	4	April
AKIE 5	324823	16	April
AKIE 6	324824	6	April
AKIE 11	329534	16	July
AKIE 12	329535	20	Aug.
AKIE 14	329537	15	Aug.

AKIE SOUTH GROUP

Claim	Record No.	Units	Month of Record
AKIE 7	324825	20	April
AKIE 8	327931	6	July
AKIE 9	327932	12	July
AKIE 10	327933	4	July
AKIE 13	329536	20	July
AKIE 15	329538	6	Aug.
AKIE 16	329539	8	Aug.
AKIE 17	330626	16	Aug.

The geophysical and soil geochemical surveys were carried out on the AKIE 2 through 9 and 11 claims. Diamond drilling was done on the AKIE 4, 5 and 7 claims.

1.3. Previous Work

The AKIE claims were originally staked in 1978 by Rio Canex as part of the Dog claim group to cover an area of anomalous lead in stream sediment silt samples. During the period of 1979 to 1981 geological, soil geochemical and VLF surveys were completed. Broad, ill-defined zones of anomalous Pb, Zn, Ag and Ba in soils were outlined in areas underlain by Gunsteel Shales. No mineralization was discovered and

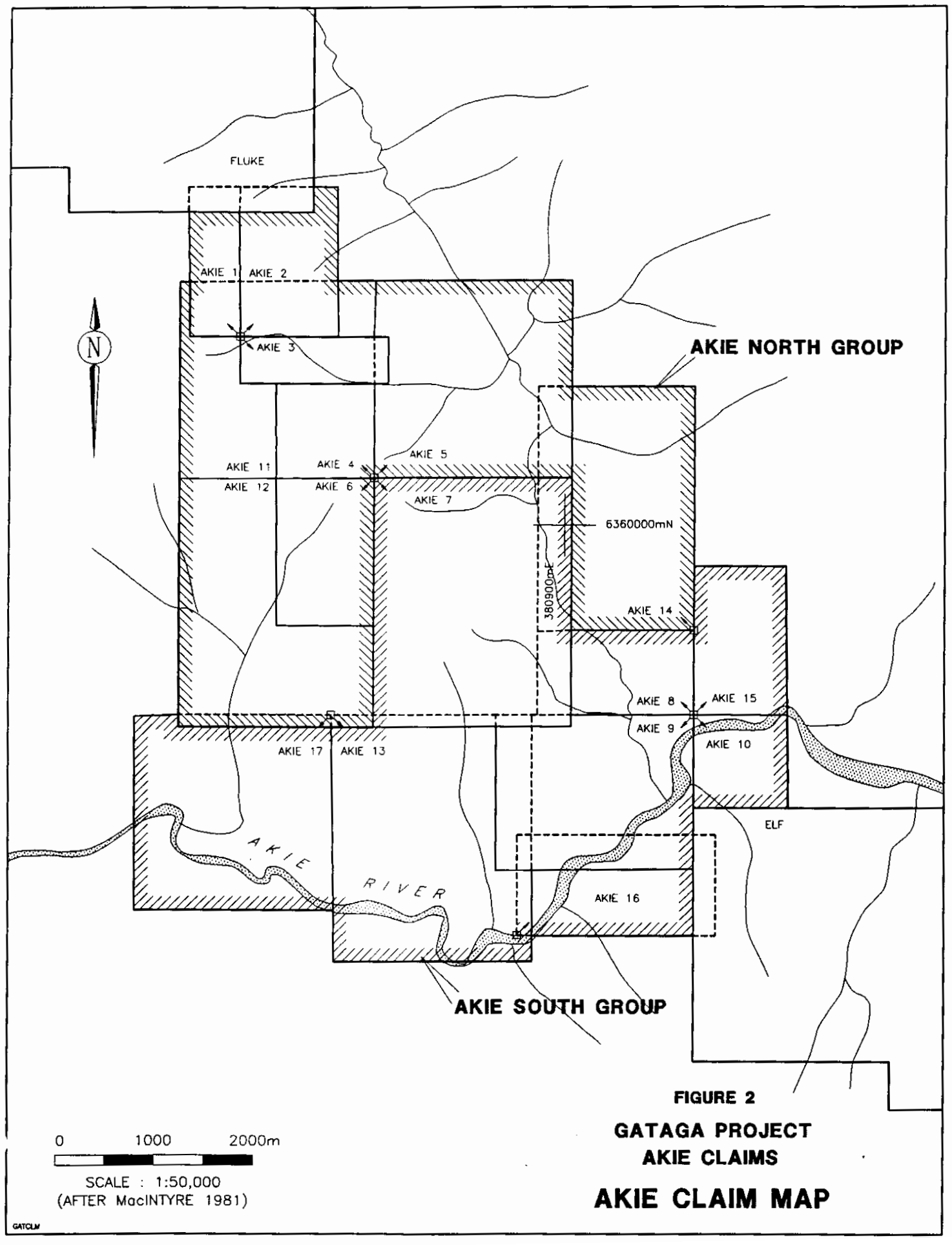


FIGURE 2

GATAGA PROJECT
AKIE CLAIMS

AKIE CLAIM MAP

no follow-up evaluation of the soil anomalies was done. The Dog claims were eventually allowed to lapse.

In 1989 Ecstall Mining Corporation restaked three claims adjacent to the southern edge of the Fluke claims and in 1992 optioned the claims to Metall Mining Corporation. In 1992 and 1993 Metall Mining Corporation conducted further soil surveys to define areas of anomalous metal enrichment associated with blebby barite horizons.

2. GEOLOGY

2.1. Regional

The AKIE claims occur on the northeastern margin of the Kechika Trough which is the southern extension of the Selwyn Basin - a 1200 km belt of sediments which were deposited off the western edge of ancestral North America. The Kechika Trough is a 180 km long, northwesterly trending belt of Early Cambrian to Triassic sediments which occur in a number of southwest dipping thrust fault slices. A detailed review of the stratigraphy and descriptions of the various formations is given by MacIntyre (1992).

Exploration activity in the area has concentrated on stratiform barite-sulphide showings which are hosted in Middle to Upper Devonian shales of the Gunsteel Formation. Notable occurrences in the belt include Driftpile, Mt. Alcock, Elf, Cirque and Akie. The most developed prospect is the Cirque deposit which contains an estimated 38 m Tonnes @ 8.0% Zn and 2.2% Pb.

2.2. Local

The Akie River area has been mapped at 1:50,000 scale by MacIntyre (1981) and a generalized geology map and stratigraphic section are shown in Figures 3 and 4.

The Akie claims are underlain by a northwest trending package of Devonian age shales, siltstones and localized limestones which overlie Silurian to Ordovician age

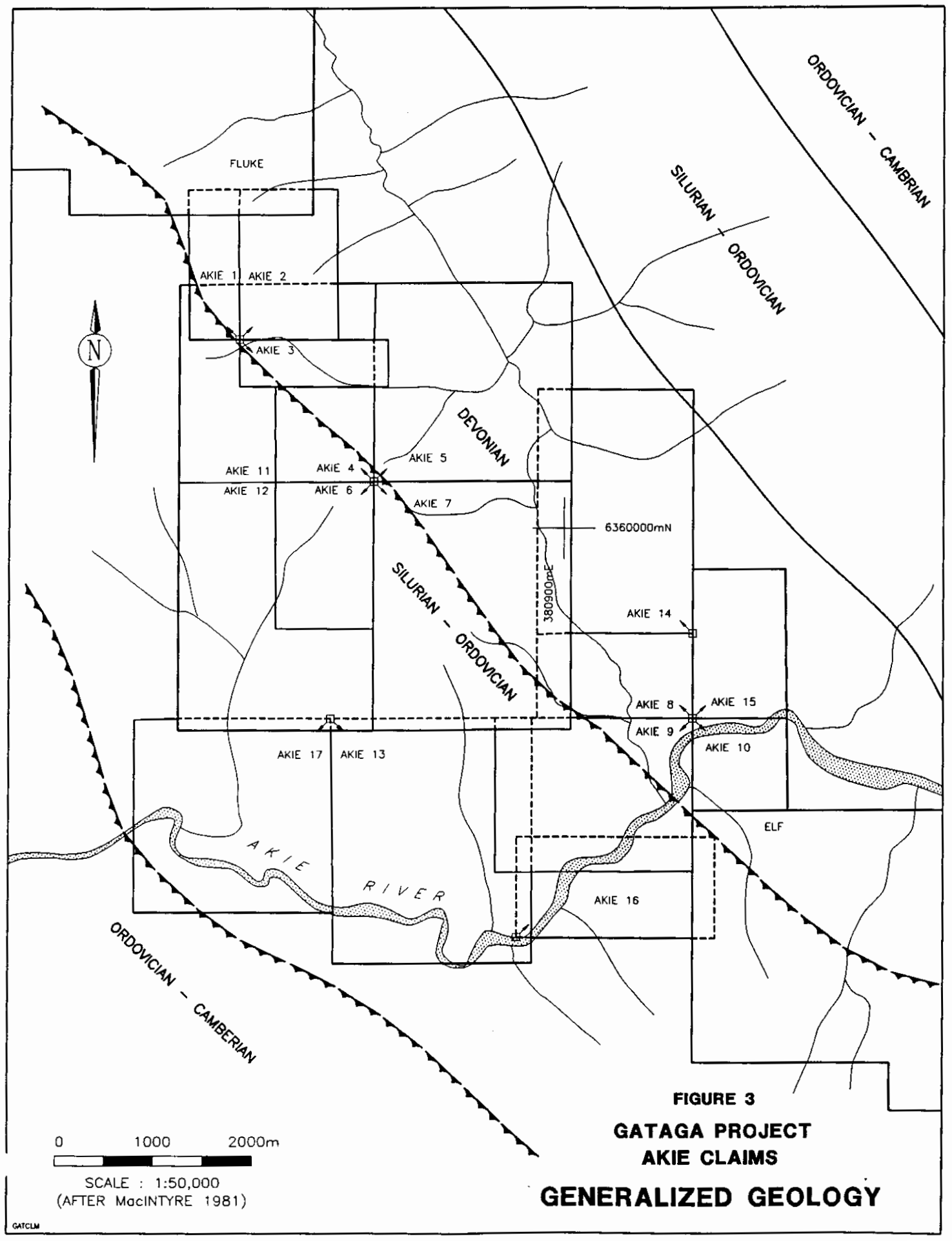
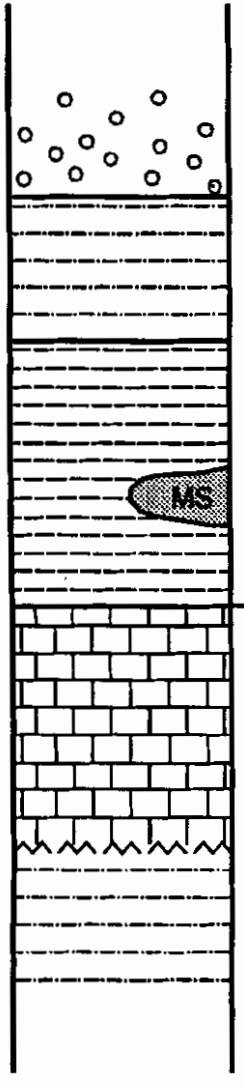


FIGURE 3

GATAGA PROJECT
AKIE CLAIMS

GENERALIZED GEOLOGY

FIGURE 4
GENERALIZED STRATIGRAPHY - SOUTH GATAGA AREA
(after MacIntyre 1992)



FORMATION	AGE	ROCK TYPE	
WARNEFORD	MISSISSIPPIAN UPPER DEVONIAN	CHERT PEBBLE CONGLOMERATE	
AKIE		SILTSTONE	EARN GROUP
GUNSTEEL	MIDDLE - UPPER DEVONIAN	SHALE, BEDDED NODULAR BARITE MASSIVE SULPHIDES	
KWADACHA	LOWER - MIDDLE DEVONIAN	FOSSILIFEROUS LIMESTONE	ROAD RIVER GROUP
	SILURIAN ORDOVICIAN	SHALES, SILTSTONES, CHERTS	

siltstones and shales. The Devonian package is also in thrust contact to the southwest with Silurian to Ordovician siltstones and shales.

Exploration activity on the property is focused within a 400-600 m wide band of black, recessive weathering shale of the Middle-Upper Devonian Gunsteel Formation. These rocks occur as a narrow northwest trending southwest dipping package which overlies to the northeast and is in thrust contact to southwest Silurian-Ordovician calcareous siltstones and shales of the Road River Group. In 1994, massive sulphide mineralization was discovered on surface at the base of the Gunsteel Formation. Mineralization occurs as centimeter scale layers of finely laminated, fine grained sulphides interbedded with barren black shales of the Gunsteel Formation. A continuous chip sample across the widest bed returned 16.0% Zn and 2.8% Pb over 40 cm. The discovery has been called the Cardiac Creek showing.

3. SOIL GEOCHEMISTRY

Line cutting and soil geochemical surveys were carried out on the AKIE claims to:

i) evaluate the strike extent of previously defined soil anomalies

ii) define areas of metal enrichment in soils overlying the Gunsteel Formation.

The linecutting and soil sampling program occurred in two stages:

i) June 15 to June 27, 24.4 line km of linecutting (line 8S to line 52S) and 797 soil samples collected.

ii) Following the discovery of mineralization at Cardiac Creek the grid was further extended from line 52S to line 62S (5.54 line km) and 158 soil samples collected from August 30 to September 4.

Grid lines were established using chain and compass, slope corrected and cleared of brush for ease of access.

3.1. Sampling Procedure

Samples of the B soil horizon were collected at 25 metre intervals along 200 meter spaced cut, flagged and picketed grid lines. The B soil horizon is poorly developed, rocky, grey to brownish grey in colour and occurs at depths ranging between 5 cm and 25 cm below surface. Soil samples of 300 to 500 grams were placed in Kraft paper bags, labeled by grid location, dried in the field and then sent to IPL Labs in Vancouver for analysis. Each sample was analyzed for Cu, Pb, Zn, Ag, Ba, Cd, Mn and Fe using an ICP technique. Laboratory procedures for sample preparation and analysis are included in Appendix I

3.2. Results

Analytical certificates are included in Appendix II and the data is plotted at 1:5000 scale on Figure 5a to 5d. Statistical data for all Akie soil sampling is presented in Table 1. Frequency histograms were generated for each element to determine the type of population distribution (normal or log normal). Anomalous values are those greater than mean plus two standard deviations for normal populations or geometric mean plus two standard deviations for log normal populations.

Ag	Occasional single station anomalies within the Gunsteel Formation with several occurring at the Gunsteel-Road River stratigraphic contact.
Ba	Several narrow linear multi-line barium anomalies 200 m to 600 m long occurring within or at the base of the Gunsteel Formation. These occur from line 800S to 1000S, 1800S to 2400S, 3200S to 3400S and 5000S to 5200S. There are also several spotty single station anomalies most of which are >1% Ba.
Cd	Large anomalous area east of the base line on lines 4200S to 4600S within the Gunsteel Formation. Three narrow linear anomalies from lines 1200S to 1400S, 2800s to 3400S and 5000S to 5800S.
Mn	Several multi-line anomalies proximal to and above the over-riding thrust fault. Several two-line anomalies and a 600 m anomaly from lines 4200S to 4800S through the large anomalous Cd area.

Cu — Several single station anomalies overlying the Gunsteel Formation. Line 5600S open ended one line three station anomaly. Multi-station anomaly possibly due to down slope movement.

Fe — Line 800S to 1600S narrow linear anomaly along the hangingwall thrust fault. Several one and two station anomalies along this same thrust. Line 4400S to 4600S, 200 m anomaly along the base of the Gunsteel Formation. Several spotty single station anomalies within the Gunsteel Formation.

Pb — Lines 1400S to 2800S several 200-400 m stacked, linear anomalies within the Gunsteel Formation - suggests possible multiple horizons. Line 5400S to 5800S, 400 m linear anomaly within the Gunsteel Formation. Several single line one and two station anomalies within the Gunsteel.

Zn — Large, irregular anomaly, similar to the Cd anomaly, on lines 4200S to 4600s east of the baseline. Line 5000S to 5600S, 600 m narrow linear anomaly close the base of the Gunsteel Formation and a possible second horizon on the same lines just west of the baseline. This anomaly can be extrapolated to lines 4400S and 4600s giving it a length of 1200 m.

Table 1: Akie Soil Geochemical Statistical Data

Element	Units	Min.	Max.	N	Distribution	Mean/Geometric Mean	Standard Deviation	Anomalous Values
Ag	ppm	0.05	9.7	1053	Log Normal	0.37	2.84	3.0
Ba	ppm	128	23,406	1052	Log Normal	2667	1.83	8913
Cd	ppm	0.05	51.7	1032	Normal	1.12	1.8	4.7
Cu	ppm	0.50	175	1048	Log Normal	17.3	2.23	86
Fe	%	0.23	13.39	1046	Normal	2.58	1.01	4.6
Mn	ppm	16	3522	1043	Normal	230	186	602
Pb	ppm	1.0	3186	1045	Log Normal	37.6	1.71	110
Zn	ppm	11.0	5992	1012	Log Normal	188	2.17	889

3.3. Summary of Soil Geochemistry

The south end of the AKIE grid from 4200S to 5800S is an extremely anomalous area of soil geochemistry. On lines 4200S to 4600S there is a large irregular area of anomalous Zn and Cd with linear and spotty anomalies of Ag, Mn, Cu and Fe. The north end of this anomaly was drill tested by hole A-94-6 with no significant mineralization encountered.

Extrapolation between linear multiline and single station anomalies of Pb, Zn, Cd and Mn in this same area has defined three narrow linear multi-element soil anomalies 800 m to 1600m long. These anomalies are:

1. along the base of the Gunsteel Formation along strike from the known Cardiac Ck. mineralization from 4400S to 5600S,
2. between the baseline and the base of the Gunsteel formation on lines 4200S to 5800S and
3. west of the baseline from lines 4200S to 5600S.

These three anomalies will require drill testing to assess their significance.

In the north portion of the AKIE grid, extrapolation between small linear anomalies and single station anomalies of Pb, Zn,Cd, Mn, Ag and Ba yields two significant multi-element soil anomalies suggesting the presence of two possible horizons. Both anomalies occur west of the baseline:

1. from line 800s to 2200S close to the baseline and
2. from 1600S to 2200S further to the west.

Further extrapolation with single station anomalies along the baseline could possibly extend the first anomaly over to 4200S. Both of these anomalies will require drill testing to assess their significance.

4. GEOPHYSICS

A VLF-Resistivity, VLF-EM and Magnetic survey was conducted on the 1994 AKIE soil grid from September 9 to September 23, 1994. The survey was conducted to:

1. From the differences in resistivities, trace the Gunsteel shale-calcareous siltstone contact, along which mineralization occurs, across the property.
2. Detect zones of low resistivity (higher conductivity) which may be due to massive sulphide mineralization.

The geophysical survey was conducted by Pacific Geophysical Limited of Vancouver, BC, a logistics report is attached in Appendix III. Measurements were recorded utilizing an EDA Omniplus VLF-Resisistivity/VLF-EM/Magnetic unit. The VLF-Resistivity survey utilized the Hawaii (23.4 Khz) transmitter station while the VLF-EM survey utilized the NSS Annapolis (21.4 Khz) transmitter. The magnetics survey measured total field, corrected for diurnal effects and reduced to a 58,000 nT datum.

4.1. Results

The results from the geophysical surveys are plotted and contoured on Figures 6a to 6c.

4.1.1. Magnetics

No significant anomalies were detected by the total magnetics survey. The one station spot highs on lines 3600S, 3800S and 4200S are due to casing left in drill collars at these locations.

4.1.2. VLF-Resistivity

The VLF-Resistivity survey has proven to be a very useful mapping tool to trace the Gunsteel Formation across the property. There is sufficient contrast in resistance between the calcareous siltstones of the Road River Group and graphitic shales at the Gunsteel Formation to easily distinguish between the two rock types. The geologic contacts which appear on the soil geochemical contour maps have been picked from

the VLF-Resistivity map. These contacts have also been verified through field examinations and drilling.

The resistivity survey has also picked out a long, linear area just west of the baseline of very low resistivity which may be due to higher carbon/graphite content as seen in the top of Hole 6. Continued drilling will verify if the zone is due to graphite or conductive massive sulphides. A higher zone of resistivity within the Gunsteel Formation was detected just east of the baseline on lines 4800S to 5200S. The higher resistivity may be due to increased silicification or barite horizons both which may indicate the presence of sulphides. Soil sampling returned anomalous samples of barium on lines 5000S and 5200S coincident to the resistivity highs. Drilling will be required to test this target.

5. DIAMOND DRILLING

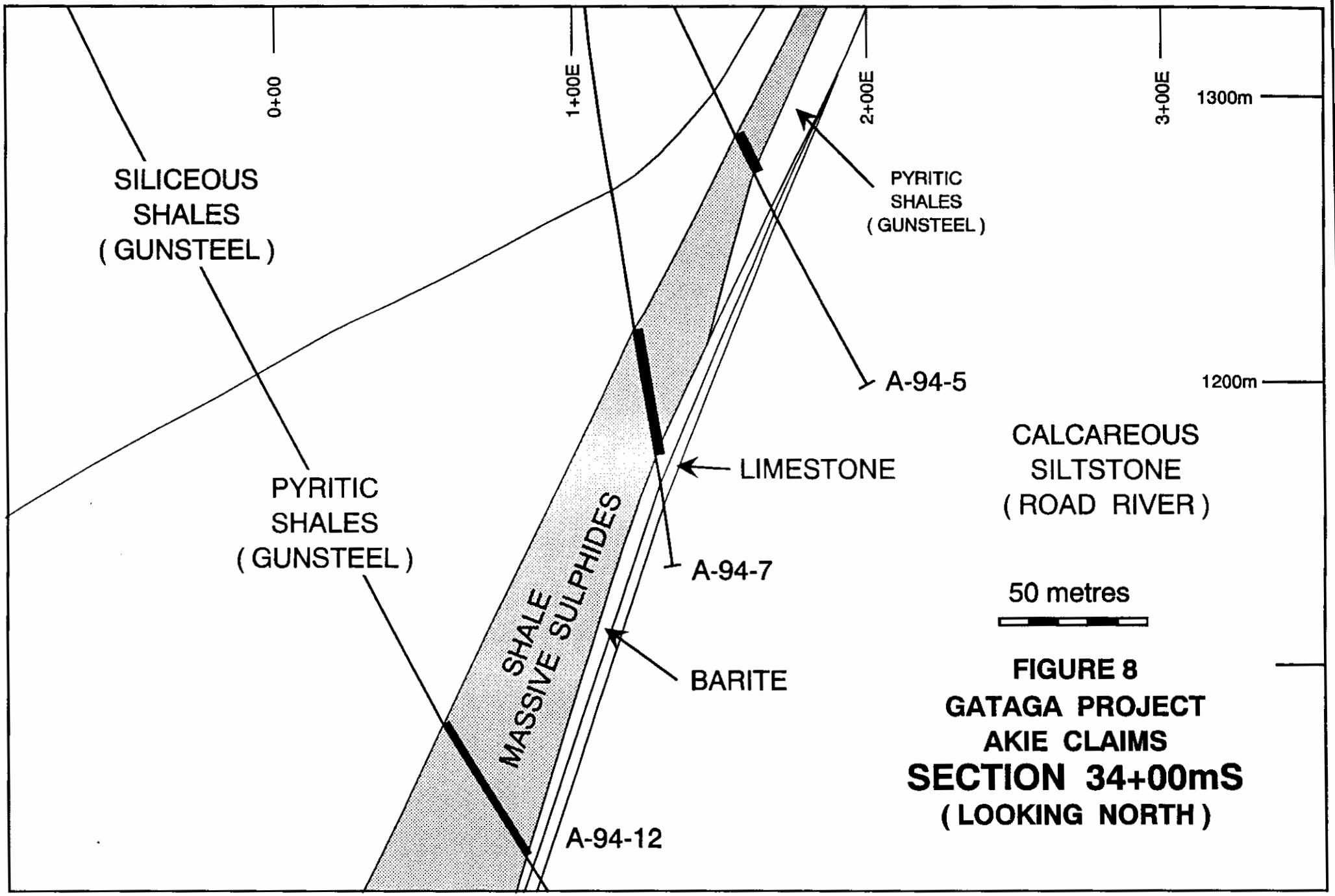
Twelve, NQ diamond drill holes totaling 3753.2 m were drilled on the AKIE claims to assess the narrow massive sulphide discovery within Cardiac Creek and to test soil geochemical anomalies thought to be associated with this horizon. Table 2 summarizes the 1994 AKIE drill program; drill logs are included in Appendix IV. Drill hole locations and core storage location are presented in Figure 7.

5.1. Results

The 1994 diamond drilling program has defined a relatively simple stratigraphic section which is shown in Figure 8. Interbedded shale and laminar bedded py-sp-Ba-gn mineralization occurs at the base of the Gunsteel Formation and is underlain by thin, discontinuous units of bedded barite, limestone and limestone-shale-siltstone breccia. The zinc-lead mineralization is overlain by a thick uniform sequence of variably silicified black Gunsteel shales with a disseminated and laminar bedded pyrite zone developed in the immediate hangingwall to the Zn-Pb mineralization. The Gunsteel Formation is underlain by a very diagnostic, thick, calcareous siltstone

Table 2: 1994 AKIE Diamond Drilling Summary

Hole No.	Location	Collar Az.	Collar Dip	Final Depth	Results	
A-94-1	1925S; 50E	050°	-55°	262.4 m	109.4-113.1:	silicified baritic shales: CARDIAC CK. HORIZON
					112.0-114.9:	9.1% Ba/2.9 m
A-94-2	2380S; 190E	050°	-54°	178.9 m		Collared into footwall, no significant results
A-94-3	3800S; 100E	050°	-54°	233.5 m	163.9-176.7:	Interbedded shale and laminar massive sulphide:
						2.35% Zn, 0.38% Pb, 4.0 g/t Ag/12.8 m
A-94-4	3800S; 100E	050°	-73°	296.0 m	217.2-252.0:	Interbedded shale and laminar massive sulphides
					236.7-247.0:	2.56% Zn, 0.44% Pb, 5.4 g/t Ag/10.3 m
A-94-5	3400S; 110E	050°	-65°	230.7 m	132.3-161.0:	Interbedded shale and laminar massive sulphides
					132.3-145.4:	3.54% Zn, 0.61% Pb, 5.0 g/t Ag/13.1 m
A-94-6	4200S; 80W	050°	-57°	540.7 m		No significant results
A-94-7	3400S; 110E	050°	-87°	272.8 m	189.8-232.1:	Interbedded shale and laminar massive sulphides
						4.75% Zn, 0.83% Pb, 8.4 g/t Ag/42.3 m
A-94-8	2382S; 35E	050°	-55°	203.0 m	173.9-184.4:	Interbedded shale and laminar massive sulphides
					173.9-179.8:	2.47% Zn, 0.40% Pb, 7.0 g/t Ag/5.9 m
A-94-9	2382S; 35E	050°	-85°	350.8 m	308.8-314.4:	Laminar massive pyrite and shale (60% py)
					314.4-333.2:	Limestone, Limestone breccia
					315.3-317.1:	2.49% Zn within sulphide stringers
A-94-10	2858S; 20E	050°	-49°	294.7 m		No significant results
A-94-11	2858S; 20E	050°	-78°	370.9 m	323.8-353.3:	Interbedded shale and laminar massive sulphides
					330.2-353.3:	4.3% Zn, 0.86% Pb, 7.2 g/t Ag/23.1 m
A-94-12	3400S; 75W	050°	-71°	518.8 m	431.0-479.1:	Interbedded shale and laminar massive sulphides
					437.0-477.4:	4.2% Zn, 0.9% Pb, 10.0 g/t Ag/40.4 m


0+00
1+00E
2+00E
3+00E
1300m
1200m
SILICEOUS
SHALES
(GUNSTEEL)
PYRITIC
SHALES
(GUNSTEEL)
PYRITIC
SHALES
(GUNSTEEL)
A-94-5
LIMESTONE
CALCAREOUS
SILTSTONE
(ROAD RIVER)
A-94-7
SHALE
MASSIVE SULPHIDES
BARITE
A-94-12
50 metres
FIGURE 8
GATAGA PROJECT
AKIE CLAIMS
SECTION 34+00mS
(LOOKING NORTH)

interpreted to be of the Road River Group. All drill holes were ended in this unit to be sure the mineralized horizon at the base of the Gunsteel Formation has been tested.

The mineralized zone consists of black, massive, variably siliceous and generally sulphide barren shale interbedded with 5 cm to 1.5 m zones of laminar bedded, very fine grained massive pyrite, sphalerite and galena. So far, stratigraphic dips of the zone are fairly consistent at 70 to 75 degrees to the southwest. Mineralization has been intersected over a strike length of 1400 m and tested to a depth of 300 m below surface. Zinc and lead grades, zone thickness and thickness of hangingwall pyritic shales are all increasing downdip indicating a downdip direction to the source of the SEDEX system.

6. CONCLUSIONS AND RECOMMENDATIONS

The 1994 AKIE soil sampling program covered a 5.4 km strike length of prospective Gunsteel shales defining several 800-1600 m long, linear, multi-element soil anomalies suggesting the presence of possible multiple horizons. These soil anomalies overlie the Gunsteel Formation or occur at the base of the Gunsteel which is correlative with the known mineralization discovered in Cardiac Creek and defined by drilling. All multi-element soil anomalies within or at the base of the Gunsteel Formation must be considered as high priority targets and will require drill testing to assess their significance.

The geophysical VLF-Resistivity survey has proven to be a useful mapping tool to trace the Gunsteel Formation across the property. It has also outlined a zone of higher resistivity within the Gunsteel Formation with a coincidental barium soil anomaly which will require drill testing to assess its significance.

Following the discovery of massive sulphides in outcrop within Cardiac Creek, twelve diamond drill holes have tested 2.25 km of strike length along the base of the Gunsteel Formation. Drilling to date has intersected fringe type SEDEX style mineralization across a strike length of 1400 m and to depths of 300 m below surface. The mineralization remains open at depth. Increases in grade and thickness of the mineralized zone with depth indicates a downdip direction to the source of the SEDEX system which will be drill tested during the 1995 exploration program.

7. COST STATEMENT

1. GEOCHEMISTRY

a. June Linecutting and Soil Survey (lines 8+00S to 52+00S)

i.	Helicopter Support: *Pacific Western Helicopters* 20.6 hrs @ $800/hr	$16,480
ii.	Accommodations (including pilot): *Finbow Logging Camp* 59 man days @ $85/man day	$5,015
iii.	Contractor Costs: *Hendex Exploration Services* linecutting and soil sampling	$16,760
iv.	Analyses: *IPL Labs* 797 samples @ $7/sample	$5,579
v.	Air Charters: *Williston Lake Air* crew mob/demob, ship samples, freight	$2,647
vi.	Salaries: Paul Baxter 2 days @ $250/day	$500
TOTAL		$46,981

COST ALLOCATION

AKIE North Group: 43% **$20,201.83**

AKIE South Group: 57% **$26,779.17**

b. August/September Linecutting and Soil Survey (lines 52+00S to 62+00S)

i.	Helicopter Support: *Pacific Western Helicopters* 5.5 hrs @ $800/hr	$4,400
ii.	Accommodations: *Finbow Logging Camp* 10 man days @ $85/man day	$850
iii.	Contractor Costs: *Hendex Exploration Services* linecutting and soil sampling	$4416.72
iv.	Analyses: *IPL Labs* 158 samples @ $7/sample	$1106
v.	Air Charters: *Williston Lake Air* crew mob/demob, ship samples, freight	$1642.47
vi.	Salaries Paul Baxter 1 days @ $250/day	$250
TOTAL		12,665.19

COST ALLOCATION

AKIE South Group 100% **$12,665.19**

2. GEOPHYSICS

i.	Helicopter Support: *Pacific Western Helicopters*	
	11.9 hrs @ $800/hr	$9520
ii.	Accommodations (including pilot): *Finbow Logging Camp*	
	29 man days @ $85/man day	$2465
iii.	Contractor Costs: *Pacific Geophysical Ltd.*	
	Mag-VLF EM 16 survey and data processing	$19,900.79
iv.	Air Charters: *NT Air*	
	crew mob/demob, freight	$480
v.	Salaries:	
	Paul Baxter 2 days @ $250/day	$500
TOTAL		$32,865.79

COST ALLOCATION:

AKIE North Group 35% $11,503.03
AKIE South Group 65% $21,362.76

3. DRILLING

a. AKIE North Group

i.	Helicopter Support: *Pacific Western Helicopters*	
	76.9 hrs @ $800/hr	$61,520
ii.	Accommodations (including pilot): *Finbow Logging Camp*	
	42 man days @ $85/man day	$3570
iii.	Contractor Costs: *Britton Bros. Diamond Drilling*	
	A-94-1 21,676.23	
	A-94-2 14,752.55	
	A-94-3 17,777.81	
	A-94-9 29,768.14	
	Total 83,974.73	$83,974.73
iv.	Analyses: *Min-En Labs*	
	Assay 7 samples @ $35.35/sample	$247.45
	Geochem 61 samples @ $22.25/sample	$1357.25
v.	Sample Shipments: *Loomis*	$266.65
vi.	Air Charters: *Williston Lake Air*	
	freight charges	$420

vi. Salaries:

Paul Baxter	13 days @ $250/day	$3250
Devin Denboer	12 days @ $150/day	$1800
Joe Hug	3 days @ $150/day	$450
TOTAL		156,856.08

COST ALLOCATION:

AKIE North Group 100% **$156,856.08**

b. AKIE South Group

i. Helicopter Support: *Pacific Western Helicopters*
193.6 hrs @ $800/hr $154,880

ii. Accommodations (including pilot): *Finbow Logging Camp*
135 man days @ $85/man day $11,475.00

iii. Contractor Costs: *Britton Bros. Diamond Drilling*

A-94-3	19,299.57	
A-94-4	24,487.85	
A-94-5	18,977.28	
A-94-6	45,834.09	
A-94-7	23,412.08	
A-94-10	24,961.54	
A-94-11	31,297.38	
A-94-12	43,551.34	
Demob	1,600.00	
Total	233,421.13	$233,421.13

iv. Analyses: *Min-En Labs*

Assay 21 samples @ $35.35/sample	$742.35
Assay 119 samples @ $42.35/sample	$5039.65
Geochem 93 samples @ $22.25/sample	$2069.25

v. Sample Shipments: *Loomis* $613.10

vi. Air Charters: *Williston Lake Air, NT Air*
freight, sample shipment $1046

vi. Salaries:

Paul Baxter	40 days @ $250/day	$10,000
Mike Burson	7 days @ $250/day	$1750
Devin Denboer	28 days @ $150/day	$4200
Joe Hug	19 days @ $150/day	$2850
TOTAL		428,086.48

COST ALLOCATION:

AKIE South Group 100% **$428,086.48**

c. Field Equipment and Supplies 6098.67

TOTAL	6098.67

COST ALLOCATION

AKIE North Group 30% **1829.60**

AKIE South Group 70% **4269.07**

4. REPORT PREPARATION

Paul Baxter	10 days @ $250/day	$2500
Sel Gokool (drafting)	3 days @ $200/day	$600
Gail Harrop (typing)	1 day @ $150/day	$150
Map photocopying		$62.50
TOTAL		3312.5

COST ALLOCATION

AKIE North Group 50% **1656.25**

AKIE South Group 50% **1656.25**

8. REFERENCES

MacIntyre, D.G., 1981. Geology of the Akie River Ba-Pb-Zn mineral district. B.C.M.E.M.P.R., Preliminary Map 44.

MacIntyre, D.G., 1992. Geological Setting and Genesis of Sedimentary Exhalative Barite and Barite-Sulphide Deposits, Gataga District, Northeastern British Columbia. Exploration and Mining Geology, Vol. 1, No. 1, pp 1-20.

Wells, G.S., 1992. Geochemical Assessment Report, AKIE claims, NTS 94F/7.

9. STATEMENT OF QUALIFICATIONS

I, Paul Baxter certify that:

1. I hold a bachelor of Science degree, Honours Geology (1985) from the University of Alberta, Edmonton, Alberta.

2. I am a registered Professional Geologist with the Association of Professional Engineers, Geologists and Geophysicists of Alberta.

3. I have practiced my profession in exploration since 1986.

4. I have been a contract employee with Metall Mining Corporation (Minnova Inc.) since 1988 and a full-time employee since 1994.

5. I personally carried out or supervised the work described in this report.

Paul Baxter

Vancouver, B.C.

Date: April 7, 1995

Appendix I

Sample Preparation and Analytical Procedures

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Canada V5Y 3E1
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Method of sample preparation for Soil or Silt

(a) Water content in sample is removed by convection in a low temperature dryer (T < 60 Degrees C.).

(b) Dried samples are passed through an 80 mesh sieve. The minus 80 mesh fraction is transferred to a new bag for subsequent analyses. The plus 80 mesh fraction is discarded unless otherwise instructed.

(c) If an insufficient amount of sample is less than 80 Mesh, the entire sample is passed through a 35 Mesh screen. The -35 Fraction is then pulverized and used as the portion for analyses.

QUALITY CONTROL

Cross contamination is minimized by constant cleaning of preparation equipment with high velocity compressed air. Ring pulverizers are cleaned with a quartz sand charge.

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Method of ICP Multi-element Analyses

(a) 0.50 grams of sample is digested with diluted aqua regia solution by heating in a hot water bath for 90 minutes, then cooled, bulked up to a fixed volume with demineralized water, and thoroughly mixed.

(b) The specific elements are determined using an Inductively Coupled Argon Plasma spectrophotometer. All elements are corrected for inter-element interference. All data are subsequently stored onto computer diskette.

* Aqua regia leaching is partial for Al, Ba, Ca, Cr, K, La, Mg, Na, Sc, Sn, Sr, Th, Ti, W and Zr.

QUALITY CONTROL

The machine is first calibrated using six known standards and a blank. The test samples are then run in batches.

A sample batch consists of 38 or less samples. Two tubes are placed before a set. These are an Inhouse standard and an acid blank, which are both digested with the samples. A known standard with characteristics best matching the samples is chosen and placed after every fifteenth sample. After every 38th sample (not including standards), two samples, chosen at random, are reweighed and analysed. At the end of a batch, the standard and blank used at the beginning is rerun. The readings for these knowns are compared with the pre-rack knowns to detect any calibration drift.

APPENDIX II

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CERTIFICAT OF ANALYSIS
iPL 94G0401

Client: Metall Mining Corporation iPL: 94G0401 M Out: Jul 06, 1994 Page 1 of 3 Section 1 of 1
Project: 677 102 Soil [028314:53:2] 94] In: Jul 04, 1994 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L08+00S	00+00 BL	0.6	23	57	133	<0.1	8752	127	1.98
L08+00S	00+25E	0.7	16	29	160	<0.1	5439	66	1.29
L08+00S	00+50E	0.9	26	54	499	1.8	5217	559	2.54
L08+00S	00+75E	0.9	35	69	141	0.6	5631	936	2.93
L08+00S	01+00E	1.0	47	51	51	<0.1	5660	34	1.40
L08+00S	01+25E	0.5	17	51	98	0.3	5983	137	1.54
L08+00S	01+50E	0.6	15	53	117	2.7	6107	151	1.69
L08+00S	01+75E	0.5	19	52	134	0.7	5537	76	1.78
L08+00S	02+00E	0.5	27	53	174	0.6	5848	272	2.15
L08+00S	02+25E	0.4	31	50	183	2.2	4143	357	2.48
L08+00S	02+50E	0.6	19	56	98	0.3	6175	212	1.57
L08+00S	02+75E	0.4	18	64	97	1.1	4474	67	1.88
L08+00S	03+00E	0.3	12	64	104	<0.1	3919	63	1.56
L08+00S	03+25E	0.7	12	60	91	<0.1	3272	50	1.63
L08+00S	03+50E	0.6	10	37	86	<0.1	3052	36	1.28
L08+00S	03+75E	0.5	9	48	76	<0.1	2652	50	1.44
L08+00S	04+00E	0.5	11	60	90	<0.1	3559	39	1.45
L08+00S	04+25E	0.6	14	69	116	<0.1	3658	48	1.91
L08+00S	04+50E	0.4	13	66	113	<0.1	3327	63	2.00
L08+00S	04+75E	0.3	11	66	86	<0.1	3456	50	1.68
L08+00S	05+00E	0.7	15	91	115	<0.1	4186	46	2.08
L08+00S	00+25W	1.2	19	98	110	<0.1	8029	87	2.24
L08+00S	00+50W	1.0	17	87	214	0.3	7516	202	3.23
L08+00S	00+75W	2.5	15	91	60	2.7	586	700	3.08
L08+00S	01+00W	0.4	16	101	176	<0.1	9825	63	2.16
L08+00S	01+25W	0.3	19	100	149	<0.1	4838	46	2.36
L08+00S	01+50W	0.4	25	55	136	<0.1	4021	111	2.95
L08+00S	01+75W	0.4	17	50	121	<0.1	3737	72	2.74
L08+00S	02+00W	0.3	20	46	114	<0.1	2282	80	3.14
L08+00S	02+25W	0.4	27	40	170	<0.1	5926	76	4.20
L08+00S	02+50W	0.8	43	42	171	<0.1	7441	157	4.68
L08+00S	02+75W	0.6	53	36	147	<0.1	2552	118	5.19
L08+00S	03+00W	0.3	11	35	80	<0.1	1369	63	1.47
L08+00S	03+25W	0.2	14	34	96	<0.1	1737	93	1.97
L08+00S	03+50W	0.2	16	33	102	<0.1	1827	97	2.01
L08+00S	03+75W	0.2	20	35	149	0.3	1810	300	3.04
L08+00S	04+00W	0.2	29	55	342	0.2	1828	497	4.60
L10+00S	00+25W	0.4	38	35	176	0.7	3131	91	3.80
L10+00S	00+50W	0.5	43	45	131	<0.1	4382	79	4.17

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L10+00S	00+75W	1.1	26	43	130	<0.1	5089	95	4.73
L10+00S	01+00W	0.7	16	36	176	<0.1	6780	56	3.03
L10+00S	01+25W	0.4	18	46	167	<0.1	9249	58	3.19
L10+00S	01+50W	1.5	26	48	110	<0.1	5888	63	3.71
L10+00S	01+75W	0.2	27	40	234	<0.1	6883	61	4.46
L10+00S	02+00W	0.9	20	41	114	<0.1	3382	30	9.35
L10+00S	02+25W	0.6	28	32	212	<0.1	2731	58	4.61
L10+00S	02+50W	0.1	8	31	97	<0.1	1422	45	1.35
L10+00S	02+75W	0.3	16	38	131	0.1	1933	72	2.01
L10+00S	03+00W	0.4	18	42	167	1.0	1728	432	2.25
L10+00S	03+25W	0.1	11	28	122	<0.1	1218	339	1.66
L10+00S	03+50W	0.2	19	32	187	0.1	2474	593	2.97
L10+00S	03+75W	0.8	31	33	264	0.6	5230	1128	3.02
L10+00S	04+00W	0.3	27	36	321	<0.1	8231	111	3.28
L12+50S	00+25W	0.4	26	44	256	0.9	4816	254	3.21
L12+50S	00+50W	0.2	14	34	175	<0.1	5292	51	2.47
L12+50S	00+75W	0.8	49	36	471	4.9	4553	270	2.48
L12+50S	01+00W	0.4	35	36	340	1.4	5022	224	3.02
L12+50S	01+25W	0.7	170	37	496	5.7	2903	201	4.05
L12+50S	01+50W	0.3	55	34	169	0.5	2889	199	5.84
L12+50S	01+75W	0.3	13	36	72	<0.1	1409	131	2.30
L12+50S	02+00W	0.3	22	37	114	<0.1	1819	138	3.47
L12+50S	02+25W	1.4	14	33	85	<0.1	1482	48	1.97
L12+50S	02+50W	1.3	31	33	153	0.3	1964	129	5.01
L12+50S	02+75W	0.2	14	34	186	0.3	1853	206	2.16
L12+50S	03+00W	0.9	10	35	120	0.1	2299	97	1.68
L12+50S	03+25W	0.2	16	38	147	0.6	1507	605	2.40
L42+00S	00+00 BL	0.9	95	75	4551	25.0	3286	289	11%
L42+00S	00+25E	2.4	32	120	2066	11.6	1.0%	460	2.78
L42+00S	00+50E	3.9	80	171	5850	43.5	8066	242	3.75
L42+00S	00+75E	1.2	82	76	4425	39.3	4769	454	3.09
L42+00S	01+00E	1.1	42	66	1611	11.5	4835	284	2.75
L42+00S	01+25E	1.2	24	73	742	3.3	5026	749	3.64
L42+00S	01+50E	0.9	25	69	546	3.9	5881	103	2.71
L42+00S	01+75E	1.0	65	40	1675	26.9	6109	450	1.89
L42+00S	02+00E	1.9	53	26	2545	23.8	5669	206	2.62
L42+00S	02+25E	1.6	39	49	722	6.9	8113	79	3.68
L42+00S	02+50E	7.7	9	69	236	0.4	4938	109	4.04
L42+00S	02+75E	1.5	29	54	625	4.7	6440	210	2.78

	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe
Min Limit	0.1	1	2	1	0.1	2	1	0.01
Max Reported*	99.9	20000	20000	20000	99.9	9999	9999	9.99
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICAT OF ANALYSIS
iPL 94F2901

Client: Metall Mining Corporation iPL: 94F2901 M Out: Jul 04, 1994 Page 1 of 12 Section 1 of 1
Project: 677 446 Soil [027412:47:5] 94] In: Jun 29, 1994 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L10+00S	00+00 BL	S 0.6	24	30	128	<0.1	3151	103	3.19
L10+00S	00+25E	S 0.5	25	34	90	<0.1	2527	393	2.69
L10+00S	00+50E	S 0.5	33	38	178	0.4	3421	459	3.34
L10+00S	00+75E	S 0.6	98	33	995	10.8	2263	1117	2.52
L10+00S	01+00E	S 0.7	39	59	1558	19.4	5761	484	2.95
L10+00S	01+25E	S 0.6	42	63	1784	21.6	7199	326	2.79
L10+00S	01+50E	S 1.0	57	51	1518	18.1	4212	410	2.44
L10+00S	01+75E	S 0.8	26	43	475	2.5	3345	482	2.73
L10+00S	02+00E	S 0.6	21	43	430	3.9	3799	157	1.82
L10+00S	02+25E	S 0.5	27	49	629	2.7	3835	234	2.53
L10+00S	02+50E	S 0.5	22	48	725	2.8	3839	71	1.79
L10+00S	02+75E	S 0.5	26	44	706	3.8	3318	341	2.94
L10+00S	03+00E	S 0.4	17	53	155	<0.1	2913	141	2.35
L10+00S	03+25E	S 0.4	11	36	82	<0.1	2302	57	1.28
L10+00S	03+50E	S 0.5	14	48	98	<0.1	2765	44	1.51
L10+00S	03+75E	S 0.6	17	65	118	0.1	3215	47	1.78
L10+00S	04+00E	S 0.5	17	61	117	<0.1	3861	36	1.68
L10+00S	04+25E	S 0.6	17	61	130	<0.1	4067	39	1.66
L10+00S	04+50E	S 0.8	14	72	94	<0.1	3906	32	1.39
L10+00S	04+75E	S 0.7	19	70	120	<0.1	3775	36	1.65
L10+00S	05+00E	S 0.5	17	68	102	0.7	3938	45	2.27
L12+00S	00+00 BL	S 0.5	24	35	234	1.0	3941	437	2.24
L12+00S	00+25E	S 0.7	50	40	236	1.5	4410	493	3.48
L12+00S	00+50E	S 0.6	45	35	243	1.4	3783	236	2.55
L12+00S	00+75E	S 0.6	28	52	311	2.5	3192	335	2.54
L12+00S	01+00E	S 0.5	12	43	237	0.3	2603	251	2.45
L12+00S	01+25E	S 0.4	13	43	236	0.2	2442	274	2.66
L12+00S	01+50E	S 0.5	29	56	300	1.1	3208	449	3.10
L12+00S	01+75E	S 0.4	14	47	217	0.2	2977	524	2.19
L12+00S	02+00E	S 0.3	14	47	158	0.6	3300	208	1.75
L12+00S	02+25E	S 1.5	24	55	371	3.0	2607	1173	3.68
L12+00S	02+50E	S 0.5	19	48	192	0.6	4419	361	2.10
L12+00S	02+75E	S 0.3	15	58	135	<0.1	2785	82	2.10
L12+00S	03+00E	S 0.6	31	48	402	1.6	3829	197	2.60
L12+00S	03+25E	S 0.5	21	43	334	1.9	3656	312	1.70
L12+00S	03+50E	S 0.4	19	42	257	0.4	3144	178	1.95
L12+00S	03+75E	S 0.7	30	30	101	1.7	3661	434	1.12
L12+00S	04+00E	S 0.5	28	44	190	1.9	3124	583	1.57
L12+00S	04+25E	S 0.4	17	53	196	0.2	4573	95	1.85

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L12+00S	04+50E	S 1.2	40	61	309	1.4	5109	181	2.57
L12+00S	04+75E	S 0.4	16	45	187	0.5	3769	216	1.40
L12+00S	05+00E	S 0.4	16	47	876	9.1	2555	589	2.55
L14+00S	00+00 BL	S 0.9	29	32	168	0.6	2344	455	3.31
L14+00S	00+25E	S 0.3	9	25	43	<0.1	2869	47	0.85
L14+00S	00+50E	S 0.4	21	59	111	<0.1	3002	58	2.49
L14+00S	00+75E	S 0.5	33	87	215	0.2	3654	65	3.57
L14+00S	01+00E	S 0.9	131	55	872	5.1	2080	231	3.81
L14+00S	01+25E	S 0.9	31	110	220	0.2	7798	66	3.05
L14+00S	01+75E	S 0.5	23	45	273	1.5	3477	203	2.13
L14+00S	02+00E	S 0.3	12	35	102	<0.1	2636	39	1.23
L14+00S	02+25E	S 0.3	21	60	369	1.3	3667	605	2.96
L14+00S	02+50E	S 0.2	12	47	208	<0.1	3021	408	2.09
L14+00S	02+75E	S 0.5	14	35	123	0.6	2818	130	1.12
L14+00S	03+00E	S 0.4	18	39	193	0.5	3009	150	1.80
L14+00S	03+25E	S 0.5	18	43	219	0.6	3626	140	1.76
L14+00S	03+50E	S 0.3	19	53	146	<0.1	3080	53	1.82
L14+00S	03+75E	S 0.2	13	40	96	<0.1	2679	43	1.22
L14+00S	04+00E	S 0.1	10	29	57	<0.1	2012	31	0.83
L14+00S	04+25E	S 0.5	30	44	262	1.3	4318	117	2.37
L14+00S	04+50E	S 0.3	18	61	132	0.7	3213	43	1.65
L14+00S	04+75E	S 0.2	10	40	74	<0.1	2797	49	1.17
L14+00S	05+00E	S 0.3	17	57	99	<0.1	4375	36	1.58
L14+00S	00+25W	S 0.2	49	40	199	1.3	1762	744	4.26
L14+00S	00+50W	S 1.1	45	117	356	1.8	6747	512	4.24
L14+00S	00+75W	S 0.4	60	44	1247	10.4	1463	700	4.67
L14+00S	01+00W	S 0.2	38	37	233	1.3	1823	239	3.48
L14+00S	01+25W	S 0.3	36	40	218	0.8	2093	353	3.95
L14+00S	01+50W	S 0.3	38	40	515	4.0	1684	232	3.70
L14+00S	01+75W	S 0.5	33	40	225	1.1	2765	355	3.44
L14+00S	02+00W	S 0.3	50	41	245	1.8	2003	770	4.28
L14+00S	02+25W	S 0.2	47	42	273	1.9	2003	650	4.48
L14+00S	02+50W	S 0.3	51	43	257	1.9	2005	849	4.66
L14+00S	02+75W	S 0.3	53	45	295	2.1	1904	588	4.66
L14+00S	03+00W	S 0.3	35	31	192	1.3	1577	356	3.42
L16+00S	00+00 BL	S 1.5	13	23	74	<0.1	4659	27	1.26
L16+00S	00+25E	S 0.7	17	120	154	<0.1	1.3%	23	2.64
L16+00S	00+50E	S 1.6	12	110	71	<0.1	5658	30	1.42
L16+00S	00+75E	S 2.3	16	82	61	0.1	4125	29	2.27

	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe
Min Limit	0.1	1	2	1	0.1	2	1	0.01
Max Reported*	99.9	20000	20000	20000	99.9	9999	9999	9.99
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 94F2901

Client: Metall Mining Corporation iPL: 94F2901 M Out: Jul 04, 1994 Page 3 of 12 Section 1 of 1
Project: 677 446 Soil [027412:48:0] 94] In: Jun 29, 1994 Certified BC Assayer: David Chiu

Sample Name			Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L16+00S	01+00E	S	0.5	16	222	104	<0.1	5758	36	1.88
L16+00S	01+25E	S	1.4	17	88	60	<0.1	6119	24	2.14
L16+00S	01+50E	S	0.8	12	93	50	<0.1	6875	28	1.42
L16+00S	01+75E	S	1.3	18	59	95	0.5	3534	78	2.21
L16+00S	02+00E	S	1.8	20	66	77	0.4	4447	25	1.92
L16+00S	02+25E	S	0.3	14	67	152	0.1	5819	54	1.57
L16+00S	02+50E	S	0.3	22	107	551	1.4	5573	177	2.49
L16+00S	02+75E	S	0.5	16	64	202	0.6	7754	113	2.00
L16+00S	03+00E	S	0.5	42	64	347	2.1	6823	171	2.75
L16+00S	03+25E	S	0.2	16	38	131	<0.1	2711	45	1.61
L16+00S	03+50E	S	0.4	32	62	294	1.5	3305	587	3.85
L16+00S	03+75E	S	0.3	13	36	99	<0.1	2156	52	1.39
L16+00S	04+00E	S	0.2	11	26	72	<0.1	2416	67	0.95
L16+00S	04+25E	S	0.3	13	40	107	0.2	2636	59	1.53
L16+00S	04+50E	S	0.3	16	46	186	<0.1	2723	88	2.02
L16+00S	04+75E	S	0.2	12	29	100	<0.1	2520	37	1.24
L16+00S	05+00E	S	0.2	12	37	85	<0.1	1805	71	1.40
L16+00S	00+25W	S	0.4	9	45	107	<0.1	8683	22	1.44
L16+00S	00+50W	S	0.3	10	56	89	<0.1	1.1%	22	1.72
L16+00S	00+75W	S	0.5	10	30	91	<0.1	7499	23	0.89
L16+00S	01+00W	S	1.5	24	42	150	0.7	7845	30	3.50
L16+00S	01+25W	S	0.4	12	40	62	<0.1	8271	21	1.52
L16+00S	01+50W	S	2.3	75	31	162	0.5	4200	17	5.00
L16+00S	01+75W	S	1.4	30	62	96	<0.1	9066	16	3.32
L16+00S	02+00W	S	0.5	37	38	454	0.7	4198	95	6.19
L16+00S	02+25W	S	2.4	25	26	83	0.1	1635	55	2.94
L16+00S	02+50W	S	1.1	27	22	113	<0.1	1340	25	1.74
L16+00S	02+75W	S	1.1	28	19	114	<0.1	1370	25	1.76
L16+00S	03+00W	S	0.1	20	30	144	0.1	1477	933	2.51
L16+00S	03+25W	S	2.8	38	24	274	1.6	8476	283	3.04
L16+00S	03+50W	S	0.7	21	22	188	0.6	4965	365	2.35
L16+00S	03+75W	S	0.6	27	25	177	0.1	4335	246	2.16
L16+00S	04+00W	S	0.3	27	28	164	0.7	5356	141	2.71
L18+00S	00+00 BL	S	0.5	29	76	119	<0.1	3894	38	1.85
L18+00S	00+25E	S	0.4	10	42	47	<0.1	5383	25	1.04
L18+00S	00+50E	S	1.0	11	42	39	<0.1	4904	25	0.97
L18+00S	00+75E	S	1.4	13	77	52	<0.1	3838	28	1.26
L18+00S	01+00E	S	0.9	16	83	81	0.1	5410	28	1.38
L18+00S	01+25E	S	0.9	13	97	79	<0.1	6196	29	1.50
L18+00S	01+50E	S	2.0	50	58	462	2.5	9818	730	2.94
L18+00S	01+75E	S	0.4	14	48	172	0.9	1914	409	1.41
L18+00S	02+00E	S	0.1	13	54	385	1.3	1307	293	1.79
L18+00S	02+25E	S	0.1	16	64	310	1.2	1212	417	2.27
L18+00S	02+50E	S	0.2	23	66	631	3.3	1121	404	2.66
L18+00S	02+75E	S	0.7	17	85	687	3.5	1957	583	2.07
L18+00S	03+00E	S	0.3	14	50	315	1.1	1016	240	1.70
L18+00S	03+50E	S	0.4	14	51	224	1.3	1683	656	1.70
L18+00S	03+75E	S	0.5	25	57	298	0.9	2440	150	2.19
L18+00S	04+00E	S	0.4	23	50	383	1.2	2140	183	1.90
L18+00S	04+25E	S	0.5	56	62	534	5.0	4957	177	3.48
L18+00S	04+50E	S	0.5	32	57	342	1.4	3176	232	2.20
L18+00S	04+75E	S	0.5	48	75	589	4.4	5504	188	3.87
L18+00S	05+00E	S	0.2	25	48	194	0.4	3592	94	2.70
L18+00S	00+25W	S	0.9	26	109	105	<0.1	4604	57	3.09
L18+00S	00+50W	S	0.6	22	143	130	<0.1	4498	52	3.49
L18+00S	00+75W	S	0.8	23	110	107	<0.1	4772	38	3.26
L18+00S	01+00W	S	0.8	16	86	67	<0.1	7909	31	2.34
L18+00S	01+25W	S	0.5	16	60	53	<0.1	7062	34	2.59
L18+00S	01+50W	S	0.4	20	63	111	<0.1	4418	48	2.41
L18+00S	01+75W	S	0.5	27	69	127	1.1	4850	84	3.58
L18+00S	02+00W	S	0.6	26	74	149	0.4	4631	54	3.66
L18+00S	02+25W	S	0.4	31	45	132	0.2	3764	80	3.47
L18+00S	02+50W	S	0.3	28	46	138	<0.1	2488	95	3.25
L18+00S	02+75W	S	0.7	46	46	168	<0.1	1751	84	3.13
L18+00S	03+00W	S	0.2	22	41	145	0.6	1574	353	2.66
L20+00S	00+00 BL	S	0.8	21	54	155	0.1	2530	126	2.46
L20+00S	00+25E	S	0.2	25	109	184	0.2	3668	29	2.45
L20+00S	00+50E	S	3.8	13	89	49	<0.1	1.1%	24	1.38
L20+00S	00+75E	S	1.1	9	49	40	<0.1	5053	26	1.10
L20+00S	01+00E	S	1.0	14	42	42	<0.1	5116	22	1.39
L20+00S	01+25E	S	0.4	14	56	91	<0.1	5605	28	1.46
L20+00S	01+50E	S	0.9	21	73	142	0.2	1.2%	60	2.16
L20+00S	01+75E	S	1.0	13	127	71	<0.1	6999	31	1.17
L20+00S	02+00E	S	1.2	17	114	92	<0.1	1.1%	37	1.96
L20+00S	02+25E	S	1.7	13	75	139	0.2	6232	147	0.95
L20+00S	02+50E	S	0.6	13	147	495	<0.1	2864	160	1.97
L20+00S	03+00E	S	0.1	17	63	490	2.4	1408	454	1.65
L20+00S	03+25E	S	0.2	23	44	727	3.2	1207	313	1.54
Min Limit			0.1	1	2	1	0.1	2	1	0.01
Max Reported*			99.9	20000	20000	20000	99.9	9999	9999	9.99
Method			ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICA : OF ANALYSIS
iPL 94F2901

Client: Metall Mining Corporation iPL: 94F2901 M Out: Jul 04, 1994 Page 5 of 12 Section 1 of 1
Project: 677 446 Soil [027412:48:0] 94] In: Jun 29, 1994 Certified BC Assayer: David Chiu

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L20+00S 03+50E	0.1	19	58	399	1.9	1471	297	1.62
L20+00S 03+75E	0.3	25	59	204	1.0	1464	384	1.75
L20+00S 04+00E	0.3	21	44	216	0.5	1575	209	2.50
L20+00S 04+25E	0.3	15	54	201	<0.1	1745	295	1.97
L20+00S 04+50E	0.1	14	48	193	<0.1	1493	81	1.95
L20+00S 04+75E	0.1	17	35	198	0.7	1334	198	1.78
L20+00S 05+00E	0.1	24	38	255	1.3	1493	295	2.38
L20+00S 00+25W	0.9	54	99	398	1.6	5465	263	3.81
L20+00S 00+50W	2.8	24	121	224	0.4	4635	38	2.10
L20+00S 00+75W	0.2	11	39	89	<0.1	1445	69	1.36
L20+00S 01+00W	1.2	59	162	414	0.9	4119	297	5.04
L20+00S 01+25W	1.0	71	100	441	3.2	3883	422	4.20
L20+00S 01+50W	0.9	27	143	307	1.9	3933	404	3.59
L20+00S 01+75W	0.5	20	75	162	0.7	3153	198	1.95
L20+00S 02+00W	0.3	20	74	151	0.3	2693	286	2.60
L20+00S 02+25W	0.2	32	45	222	1.0	2051	675	4.44
L20+00S 02+50W	0.2	50	57	168	1.7	1922	540	4.25
L20+00S 02+75W	0.5	22	89	138	<0.1	3319	72	2.45
L20+00S 03+00W	1.1	30	38	235	1.9	4326	784	4.08
L20+00S 03+25W	0.1	6	30	32	<0.1	1481	41	0.54
L20+00S 03+50W	0.3	27	54	163	0.7	1656	364	5.17
L20+00S 03+75W	0.1	21	46	116	0.1	1476	428	3.54
L20+00S 04+00W	0.2	17	38	334	0.7	1839	252	2.86
L22+00S 00+00 BL	1.4	13	130	40	<0.1	4447	28	1.87
L22+00S 00+25E	0.7	7	97	62	<0.1	4141	25	1.31
L22+00S 00+50E	0.5	20	63	92	<0.1	1803	280	2.86
L22+00S 00+75E	0.9	15	44	85	<0.1	2062	38	1.44
L22+00S 01+00E	0.2	14	38	102	<0.1	3300	34	1.85
L22+00S 01+25E	0.3	8	29	46	<0.1	1433	36	0.88
L22+00S 01+50E	1.0	18	48	61	<0.1	1942	62	2.26
L22+00S 01+75E	0.1	5	36	34	<0.1	9258	33	1.53
L22+00S 02+00E	0.2	15	49	141	<0.1	8078	28	2.44
L22+00S 02+25E	3.6	11	74	64	<0.1	5486	16	2.01
L22+00S 02+50E	0.3	21	172	863	1.3	3426	609	3.81
L22+00S 02+75E	0.1	16	135	536	1.2	2305	365	2.77
L22+00S 03+00E	0.2	15	76	348	0.3	2027	138	2.66
L22+00S 03+25E	<0.1	12	58	330	0.2	1553	234	2.48
L22+00S 03+50E	<0.1	10	38	104	<0.1	1001	55	1.43
L22+00S 03+75E	0.7	17	43	203	0.5	1589	278	2.13
L22+00S 04+00E	<0.1	3	35	57	<0.1	267	358	1.32
L22+00S 04+25E	0.1	4	21	30	<0.1	2650	22	0.38
L22+00S 04+50E	0.1	3	21	46	<0.1	1318	30	0.60
L22+00S 04+75E	0.1	3	23	38	<0.1	128	449	0.75
L22+00S 05+00E	<0.1	11	28	73	<0.1	967	64	1.47
L22+00S 00+25W	<0.1	10	24	122	<0.1	1057	67	1.84
L22+00S 00+50W	<0.1	29	33	162	<0.1	952	142	3.53
L22+00S 00+75W	<0.1	20	25	137	0.4	917	167	2.63
L22+00S 01+00W	<0.1	12	25	177	0.6	1336	296	1.84
L22+00S 01+25W	0.4	18	154	103	<0.1	2973	87	2.40
L22+00S 01+50W	0.2	14	66	172	<0.1	3889	91	1.99
L22+00S 01+75W	0.2	16	49	155	<0.1	5137	209	2.11
L22+00S 02+00W	<0.1	27	48	115	<0.1	5590	205	4.23
L22+00S 02+25W	0.8	30	48	236	0.4	4122	293	3.70
L22+00S 02+50W	0.2	18	39	134	<0.1	2891	113	2.25
L22+00S 02+75W	1.0	31	41	178	0.5	3606	210	2.83
L22+00S 03+00W	1.6	63	32	317	2.2	3818	587	4.66
L22+00S 03+25W	0.2	23	38	226	1.0	3470	745	2.98
L22+00S 03+50W	0.1	68	35	221	<0.1	2813	587	3.16
L22+00S 03+75W	0.1	21	32	221	<0.1	2686	620	2.86
L22+00S 04+00W	0.2	20	34	137	<0.1	2556	410	2.40
L24+00S 00+00 BL	0.2	15	29	135	<0.1	2180	56	1.50
L24+00S 00+25E	<0.1	18	32	181	0.7	2687	579	2.51
L24+00S 00+50E	0.1	27	29	206	0.2	5414	264	2.87
L24+00S 00+75E	0.4	43	35	342	2.2	7093	427	3.42
L24+00S 01+00E	2.3	24	53	141	<0.1	3412	109	3.38
L24+00S 01+25E	1.2	13	79	106	<0.1	3940	33	1.73
L24+00S 01+50E	0.6	16	66	109	<0.1	3228	79	2.34
L24+00S 01+75E	0.4	11	110	104	<0.1	3376	36	1.59
L24+00S 02+00E	0.7	14	71	104	<0.1	3020	97	2.08
L24+00S 02+25E	1.6	31	61	348	<0.1	9618	22	10%
L24+00S 02+50E	0.5	10	49	112	<0.1	2954	27	1.53
L24+00S 02+75E	0.3	10	50	102	<0.1	2777	30	1.44
L24+00S 03+00E	6.8	16	3186	272	0.1	379	31	3.87
L24+00S 03+25E	0.1	11	126	419	0.1	3430	95	2.76
L24+00S 03+50E	0.1	13	67	555	0.4	2778	119	3.36
L24+00S 03+75E	<0.1	13	37	396	<0.1	1650	145	2.45
L24+00S 04+00E	0.1	13	50	263	0.4	2427	266	2.93
L24+00S 04+25E	<0.1	23	45	583	0.1	2403	162	3.41
Min Limit	0.1	1	2	1	0.1	2	1	0.01
Max Reported*	99.9	20000	20000	20000	99.9	9999	9999	9.99
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined ‰=Estimate/1000 %=Estimate % Max=No Estimate

CERTIFICAT OF ANALYSIS
iPL 94F2701

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Client: Metall Mining Corporation iPL: 94F2701 M Out: Jun 29, 1994 Page 1 of 7 Section 1 of 1
Project: 667 249 Soil [026517:26:1] 94] In: Jun 27, 1994 Certified BC Assayer: David Chiu

Sample Name			Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L26+00S	00+00 BL	S	0.8	63	144	437	0.6	8872	146	6.01
L26+00S	00+25E	S	0.8	22	36	175	0.2	3821	596	3.44
L26+00S	00+50E	S	0.2	19	50	124	<0.1	3633	76	2.48
L26+00S	00+75E	S	0.5	17	63	114	<0.1	3160	88	2.31
L26+00S	01+00E	S	1.0	21	129	108	<0.1	2361	36	3.40
L26+00S	01+25E	S	1.9	25	73	157	0.2	4146	44	6.87
L26+00S	01+50E	S	0.3	7	80	54	<0.1	511	28	4.09
L26+00S	01+75E	S	0.2	11	110	152	<0.1	4310	41	2.29
L26+00S	02+00E	S	0.8	12	158	246	<0.1	3986	62	2.48
L26+00S	02+25E	S	0.4	26	67	936	4.4	3573	343	2.79
L26+00S	02+50E	S	0.3	17	51	231	1.4	3914	285	1.62
L26+00S	02+75E	S	0.2	13	49	278	1.0	3137	260	1.97
L26+00S	03+00E	S	<0.1	7	40	123	<0.1	2666	154	1.55
L26+00S	03+25E	S	<0.1	9	41	173	<0.1	2928	132	1.42
L26+00S	03+50E	S	<0.1	8	41	167	<0.1	2478	86	1.71
L26+00S	03+75E	S	0.3	13	87	457	0.9	2588	472	2.80
L26+00S	04+00E	S	0.1	10	37	388	0.2	3385	190	2.23
L26+00S	04+25E	S	0.4	14	52	319	0.4	1755	169	1.79
L26+00S	04+50E	S	<0.1	5	21	55	<0.1	840	45	0.51
L26+00S	04+75E	S	<0.1	9	42	241	0.8	1764	602	2.70
L26+00S	05+00E	S	<0.1	17	31	173	4.1	1613	85	1.64
L26+00S	00+25W	S	0.2	46	29	278	2.0	3697	358	3.42
L26+00S	00+50W	S	0.4	78	41	405	3.4	6103	408	4.50
L26+00S	00+75W	S	<0.1	18	22	111	<0.1	2631	136	2.16
L26+00S	01+00W	S	0.2	50	29	186	0.2	2710	272	3.45
L26+00S	01+25W	S	0.2	21	21	135	0.2	2951	99	2.17
L26+00S	01+50W	S	0.5	78	24	232	2.7	3382	434	3.98
L26+00S	01+75W	S	0.3	24	27	122	<0.1	3795	269	3.72
L26+00S	02+00W	S	0.7	18	31	129	<0.1	3040	117	2.63
L26+00S	02+25W	S	<0.1	9	19	58	<0.1	1304	60	1.06
L26+00S	02+50W	S	0.5	31	36	295	2.0	1847	714	3.10
L26+00S	02+75W	S	<0.1	20	34	124	<0.1	1982	96	2.21
L26+00S	03+00W	S	0.3	33	34	270	0.4	4568	339	3.53
L26+00S	03+25W	S	<0.1	22	32	159	<0.1	2945	297	3.43
L26+00S	03+50W	S	0.1	29	32	215	0.1	3775	339	4.13
L26+00S	03+75W	S	<0.1	15	31	214	<0.1	2206	301	3.10
L26+00S	04+00W	S	0.5	14	30	298	0.7	2886	501	3.98
L28+00S	00+00 BL	S	1.5	22	105	234	1.1	5283	53	2.48
L28+00S	00+25E	S	1.1	33	37	473	2.7	4616	232	2.65
L28+00S	00+50E	S	0.6	19	36	248	<0.1	3281	147	2.62
L28+00S	00+75E	S	1.0	50	74	1920	2.1	4060	176	7.55
L28+00S	01+00E	S	1.0	98	17	226	0.2	2771	25	13%
L28+00S	01+25E	S	2.7	21	67	258	0.1	4127	81	3.61
L28+00S	01+50E	S	3.5	19	120	98	<0.1	5386	34	3.62
L28+00S	01+75E	S	1.0	9	66	48	<0.1	4598	17	2.30
L28+00S	02+00E	S	0.2	22	30	67	0.2	981	22	3.25
L28+00S	02+25E	S	0.3	19	36	737	6.4	2589	175	2.56
L28+00S	02+50E	S	0.3	19	37	273	2.0	3081	270	3.57
L28+00S	02+75E	S	0.2	18	29	255	0.6	2131	169	2.54
L28+00S	03+00E	S	0.2	14	50	305	0.1	3671	65	2.80
L28+00S	03+25E	S	0.1	13	62	354	0.1	2569	115	3.62
L28+00S	03+50E	S	<0.1	8	36	181	<0.1	2019	60	1.48
L28+00S	03+75E	S	0.2	9	72	353	<0.1	2840	67	2.27
L28+00S	04+00E	S	0.1	9	59	309	<0.1	2263	79	2.02
L28+00S	04+25E	S	<0.1	8	23	159	<0.1	1741	36	1.27
L28+00S	04+50E	S	0.3	12	78	520	0.4	2066	197	3.42
L28+00S	04+75E	S	0.1	11	48	442	0.5	1764	173	2.41
L28+00S	05+00E	S	<0.1	11	40	227	<0.1	1654	154	2.35
L28+00S	00+25W	S	0.5	17	36	115	<0.1	3573	90	2.06
L28+00S	00+50W	S	0.7	21	35	115	1.1	3966	66	2.01
L28+00S	00+75W	S	0.8	17	44	141	<0.1	7610	58	3.32
L28+00S	01+00W	S	0.4	31	33	193	1.5	4363	113	2.80
L28+00S	01+25W	S	0.4	65	40	271	1.2	6341	114	4.55
L28+00S	01+50W	S	0.7	67	21	1140	9.2	3785	1870	9.22
L28+00S	01+75W	S	0.4	47	38	365	1.7	4865	390	3.84
L28+00S	02+00W	S	2.1	39	38	312	3.9	2678	140	3.06
L28+00S	02+25W	S	0.1	25	35	276	1.2	4602	279	3.50
L28+00S	02+50W	S	<0.1	25	33	253	0.7	2258	460	3.64
L28+00S	02+75W	S	0.1	17	30	240	0.5	3153	443	3.43
L28+00S	03+00W	S	0.2	20	33	122	0.2	2012	238	4.82
L28+00S	03+25W	S	0.1	16	30	117	0.5	2913	307	2.95
L28+00S	03+50W	S	0.2	14	30	444	1.6	2276	273	2.51
L28+00S	03+75W	S	0.3	16	32	256	0.5	2779	395	3.76
L28+00S	04+00W	S	0.2	13	23	136	<0.1	3756	223	2.24
L30+00S	00+00 BL	S	0.8	43	36	1175	9.6	4365	359	3.29
L30+00S	00+25E	S	0.4	14	28	332	0.9	3159	43	1.55
L30+00S	00+50E	S	0.3	20	37	578	3.8	6289	143	2.04
L30+00S	00+75E	S	0.3	17	38	228	0.3	3035	90	2.39
Min Limit			0.1	1	2	1	0.1	2	1	0.01
Max Reported*			99.9	20000	20000	20000	99.9	9999	9999	9.99
Method			ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 94F2901

Client: Metall Mining Corporation iPL: 94F2901 M Out: Jul 04, 1994 Page 7 of 12 Section 1 of 1
Project: 677 446 Soil [027412:48:1] 94] In: Jun 29, 1994 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L24+00S	04+50E	0.2	18	55	220	<0.1	4080	82	2.67
L24+00S	04+75E	0.1	17	71	242	<0.1	2265	46	1.57
L24+00S	05+00E	<0.1	11	22	149	<0.1	1767	57	1.26
L24+00S	00+25W	0.1	16	33	290	<0.1	2036	207	2.40
L24+00S	00+50W	<0.1	14	42	205	<0.1	2063	306	2.66
L24+00S	00+75W	<0.1	17	37	107	<0.1	1246	127	2.42
L24+00S	01+00W	<0.1	10	19	113	<0.1	1209	61	1.27
L24+00S	01+25W	0.3	11	22	68	<0.1	1807	38	1.02
L24+00S	01+50W	0.2	16	41	210	<0.1	1941	526	4.10
L24+00S	01+75W	0.2	34	34	154	0.5	2180	166	6.31
L24+00S	02+00W	0.2	23	38	151	<0.1	2364	228	3.23
L24+00S	02+25W	0.3	19	38	169	<0.1	2636	198	3.10
L24+00S	02+50W	0.4	22	38	169	<0.1	2279	332	3.13
L24+00S	02+75W	1.3	15	47	87	<0.1	3654	104	4.23
L24+00S	03+00W	0.3	11	22	55	<0.1	1807	45	1.05
L24+00S	03+25W	0.5	17	29	85	<0.1	1718	63	1.75
L24+00S	03+50W	0.4	17	32	120	<0.1	3254	149	2.19
L24+00S	03+75W	0.4	37	37	258	2.0	1565	322	2.99
L24+00S	04+00W	0.3	21	35	189	0.1	3513	184	2.79
L32+00S	00+00 BL	0.3	29	32	255	0.7	2807	1648	3.36
L32+00S	00+25E	<0.1	6	30	33	<0.1	2741	117	3.14
L32+00S	00+50E	0.6	39	37	237	0.2	4546	376	3.71
L32+00S	00+75E	0.7	14	34	156	<0.1	2112	394	4.02
L32+00S	01+00E	1.9	49	84	261	0.9	5364	55	4.02
L32+00S	01+25E	0.7	48	52	279	2.5	5526	60	3.94
L32+00S	01+50E	2.0	21	72	318	0.9	5261	142	5.13
L32+00S	01+75E	1.4	39	60	427	1.7	1.1%	80	4.28
L32+00S	02+00E	0.4	20	25	175	0.5	961	317	2.49
L32+00S	02+25E	1.0	20	29	326	1.1	1402	224	2.12
L32+00S	02+50E	0.4	12	28	180	1.0	1173	56	1.77
L32+00S	02+75E	0.2	14	28	188	0.5	1448	107	1.73
L32+00S	03+00E	0.3	16	32	222	0.3	2374	51	1.85
L32+00S	03+25E	0.3	18	36	504	6.2	1668	245	2.18
L32+00S	03+50E	0.3	20	24	205	0.9	1124	215	1.74
L32+00S	03+75E	<0.1	11	21	102	0.6	1312	25	0.87
L32+00S	04+00E	0.5	14	30	192	1.3	1680	204	2.57
L32+00S	04+25E	0.3	11	29	223	0.6	1601	149	3.17
L32+00S	04+50E	0.1	8	25	108	0.1	1265	72	1.34
L32+00S	04+75E	0.4	14	30	169	1.4	1599	411	2.77
Min Limit		0.1	1	2	1	0.1	2	1	0.01
Max Reported*		99.9	20000	20000	20000	99.9	9999	9999	9.99
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L32+00S	05+00E	0.2	12	31	166	0.8	1520	153	2.88
L32+00S	00+25W	0.2	16	33	212	0.4	1664	114	2.64
L32+00S	00+50W	0.3	15	54	229	0.6	1855	170	4.30
L32+00S	00+75W	0.3	17	40	353	0.6	1699	162	2.92
L32+00S	01+00W	0.1	13	34	164	0.3	1292	139	2.95
L32+00S	01+25W	1.0	49	68	409	1.3	5523	164	4.95
L32+00S	01+50W	1.5	35	39	709	2.9	4953	266	2.74
L32+00S	01+75W	1.9	19	83	200	0.8	7906	375	4.28
L32+00S	02+00W	1.4	27	124	251	1.4	3272	123	2.27
L32+00S	02+25W	1.6	109	49	1805	11.7	4869	3522	4.26
L32+00S	02+50W	1.2	42	34	413	3.3	2558	257	3.77
L32+00S	02+75W	0.7	35	30	383	2.8	2409	179	2.45
L32+00S	03+00W	0.7	33	34	265	1.0	2539	291	2.66
L32+00S	03+25W	0.7	25	30	250	0.7	2097	466	2.51
L32+00S	03+50W	0.3	17	31	194	<0.1	2172	249	2.78
L32+00S	03+75W	0.7	37	36	217	1.1	3118	263	2.97
L32+00S	04+00W	0.3	16	35	185	<0.1	2273	171	2.65
L38+00S	00+00 BL	0.5	24	33	194	0.4	3714	209	3.28
L38+00S	00+25E	0.2	14	34	185	0.9	1128	1130	3.53
L38+00S	00+50E	0.2	8	26	130	<0.1	761	318	3.04
L38+00S	00+75E	1.6	27	36	226	0.5	2281	185	2.26
L38+00S	01+00E	0.6	13	35	186	<0.1	1797	71	2.22
L38+00S	01+25E	0.6	15	45	139	<0.1	1952	145	2.68
L38+00S	01+50E	0.2	15	40	114	<0.1	2063	46	1.69
L38+00S	01+75E	0.2	8	26	32	1.6	1910	49	0.57
L38+00S	02+00E	0.6	13	31	268	0.4	2779	129	1.72
L38+00S	02+25E	0.3	7	30	93	<0.1	1469	143	1.82
L38+00S	02+75E	0.4	13	29	110	<0.1	3001	37	1.39
L38+00S	03+00E	1.2	14	42	160	<0.1	2766	43	2.07
L38+00S	03+25E	1.0	15	48	126	<0.1	2355	112	3.36
L38+00S	03+50E	2.8	8	68	76	<0.1	1.1%	18	1.77
L38+00S	03+75E	0.4	23	67	496	1.7	1570	239	1.95
L38+00S	04+15E	1.1	22	106	870	4.8	4060	331	2.61
L38+00S	04+25E	0.3	22	44	457	1.9	1477	305	2.06
L38+00S	04+50E	0.8	38	43	358	3.2	1951	1277	1.89
L38+00S	04+75E	0.8	36	100	759	4.0	4194	296	2.82
L38+00S	05+00E	1.1	29	46	453	2.4	4592	289	2.61
L38+00S	05+25E	2.0	30	56	785	7.2	3930	291	3.09
L38+00S	05+50E	1.1	25	29	378	1.9	2946	242	3.46
		0.1	1	2	1	0.1	2	1	0.01
		99.9	20000	20000	20000	99.9	9999	9999	9.99
		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined ‰=Estimate/1000 %=Estimate % Max=No Estimate

CERTIFICAT OF ANALYSIS
iPL 94F2701

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Client: Metall Mining Corporation iPL: 94F2701 M Out: Jun 29, 1994 Page 3 of 7 Section 1 of 1
Project: 667 249 Soil [026517:26:2] 94] In: Jun 27, 1994 Certified BC Assayer: David Chiu

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L30+00S 01+00E	0.6	24	44	246	0.5	3526	69	3.73
L30+00S 01+25E	1.2	21	39	117	<0.1	4238	39	1.85
L30+00S 01+50E	0.3	15	44	127	<0.1	2741	89	2.78
L30+00S 01+75E	1.1	15	35	100	<0.1	2974	33	1.85
L30+00S 02+00E	0.2	18	43	138	<0.1	2733	82	3.01
L30+00S 02+25E	1.1	28	42	138	<0.1	3849	22	2.30
L30+00S 02+50E	0.3	20	76	110	<0.1	3195	50	1.93
L30+00S 02+75E	0.1	20	44	215	1.0	2793	91	2.68
L30+00S 03+00E	0.1	13	39	174	0.6	2113	214	2.72
L30+00S 03+25E	0.3	15	69	192	0.1	3838	176	3.10
L30+00S 03+50E	0.1	12	48	185	0.4	2833	112	2.55
L30+00S 03+75E	0.1	13	20	112	0.7	2135	43	1.08
L30+00S 04+00E	<0.1	15	40	192	0.4	2011	217	2.84
L30+00S 04+25E	0.1	14	29	134	<0.1	1846	80	2.22
L30+00S 04+50E	0.2	14	34	128	0.3	2459	125	2.29
L30+00S 04+75E	0.1	12	27	135	<0.1	1696	67	1.71
L30+00S 05+00E	0.1	18	32	181	0.1	1621	123	2.91
L30+00S 00+25W	0.6	20	50	344	0.6	3833	99	2.35
L30+00S 00+50W	0.3	14	48	209	0.2	7508	90	1.87
L30+00S 00+75W	1.6	10	52	102	0.2	7853	63	1.48
L30+00S 01+00W	0.5	24	38	446	2.5	4511	593	2.93
L30+00S 01+25W	0.5	26	31	218	1.3	3370	156	2.30
L30+00S 01+50W	0.5	30	31	224	2.6	3313	97	2.04
L30+00S 01+75W	1.5	82	25	394	4.2	2702	169	2.24
L30+00S 02+00W	0.3	43	34	652	5.9	3444	379	3.26
L30+00S 02+25W	0.4	47	33	465	4.9	3093	787	4.29
L30+00S 02+50W	1.1	38	35	359	1.9	3964	296	3.13
L30+00S 02+75W	0.2	20	37	283	0.6	3020	464	3.42
L30+00S 03+00W	0.4	17	33	220	0.3	3774	237	3.09
L30+00S 03+25W	0.1	17	34	154	<0.1	3039	269	2.62
L30+00S 03+50W	0.6	29	38	313	0.4	1.3%	340	4.76
L30+00S 03+75W	0.8	23	31	185	<0.1	2759	97	2.38
L30+00S 04+00W	0.3	11	38	211	<0.1	3301	121	2.38
L34+00S 00+00 BL	0.2	20	43	266	0.9	2001	118	3.03
L34+00S 00+25E	0.1	14	35	110	<0.1	2414	61	1.70
L34+00S 00+50E	1.5	19	55	154	0.1	3082	37	2.45
L34+00S 00+75E	0.4	22	60	200	0.6	3606	106	3.35
L34+00S 01+00E	0.8	15	75	97	0.1	2460	53	1.98
L34+00S 01+25E	0.8	18	63	168	0.7	4148	275	3.59

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L34+00S 01+50E	1.3	19	35	235	1.3	4924	758	3.80
L34+00S 01+75E	1.7	21	45	136	0.3	8896	91	2.78
L34+00S 02+00E	2.2	11	45	91	<0.1	9956	57	2.33
L34+00S 02+25E	0.7	16	35	213	1.5	4585	238	2.76
L34+00S 02+50E	0.5	13	87	558	1.8	2341	220	2.13
L34+00S 02+75E	0.5	15	57	344	1.2	3627	270	2.24
L34+00S 03+00E	0.5	18	36	388	1.8	1689	148	2.30
L34+00S 03+25E	0.5	21	36	312	1.8	1612	274	2.08
L34+00S 03+50E	0.9	43	46	1063	6.6	3490	299	3.68
L34+00S 03+75E	<0.1	14	39	194	0.1	1422	101	2.16
L34+00S 04+00E	0.9	32	24	199	1.2	1559	249	2.07
L34+00S 04+25E	0.1	8	28	133	0.1	1039	124	2.44
L34+00S 04+50E	0.4	24	29	227	0.8	1689	236	2.50
L34+00S 04+75E	0.3	18	27	162	0.5	1552	82	2.40
L34+00S 05+00E	1.4	44	29	286	1.5	1754	250	3.33
L34+00S 00+25W	0.5	27	67	323	1.7	3866	108	3.14
L34+00S 00+50W	0.4	25	34	217	1.3	2825	133	2.45
L34+00S 00+75W	0.8	58	36	374	2.0	3030	355	3.27
L34+00S 01+00W	0.7	44	53	315	1.0	5430	295	4.22
L34+00S 01+25W	0.7	41	39	254	1.1	3437	332	3.52
L34+00S 01+50W	0.5	15	31	241	3.2	1428	137	3.67
L34+00S 01+75W	0.6	14	30	157	0.7	1973	148	3.05
L34+00S 02+00W	0.6	35	32	438	2.0	3127	616	3.12
L34+00S 02+25W	0.3	48	41	238	1.2	3568	499	3.88
L34+00S 02+50W	0.4	29	36	192	0.3	3216	343	3.56
L34+00S 02+75W	0.8	31	31	203	1.1	2665	561	3.27
L34+00S 03+00W	0.3	21	66	183	0.3	2618	409	3.21
L34+00S 03+25W	0.1	16	31	151	0.1	2226	225	3.65
L34+00S 03+50W	0.3	19	33	167	0.3	3181	472	2.65
L34+00S 03+75W	0.1	12	28	154	0.3	1335	195	2.81
L34+00S 04+00W	<0.1	9	27	285	0.5	1734	429	2.51
L36+00S 00+00 BL	0.8	54	51	915	6.9	3890	238	3.13
L36+00S 00+25E	0.5	35	42	666	3.8	4350	106	2.09
L36+00S 00+50E	0.6	34	65	473	1.8	9542	69	3.57
L36+00S 00+75E	0.8	29	47	295	3.0	3745	177	2.80
L36+00S 01+00E	0.8	42	56	351	1.9	5964	122	2.62
L36+00S 01+25E	0.4	24	42	277	0.5	3067	169	3.34
L36+00S 01+50E	1.7	22	71	235	1.6	5316	58	3.30
L36+00S 01+75E	0.9	16	44	321	1.7	4797	241	2.91

	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
Min Limit	0.1	1	2	1	0.1	2	1	0.01
Max Reported	99.9	20000	20000	20000	99.9	9999	9999	9.99
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

CERTIFICAT OF ANALYSIS
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Client: Metall Mining Corporation iPL: 94F2701 M Out: Jun 29, 1994 Page 5 of 7 Section 1 of 1
Project: 667 249 Soil [026517:26:3] 94] In: Jun 27, 1994 Certified BC Assayer: David Chiu

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L36+00S 02+00E	0.6	15	43	209	1.4	3282	209	2.92
L36+00S 02+25E	0.2	12	47	421	0.8	2694	172	2.92
L36+00S 02+50E	0.5	19	76	375	0.4	6833	50	2.66
L36+00S 03+00E	0.2	11	53	479	1.0	2862	172	3.21
L36+00S 03+25E	<0.1	4	39	145	0.2	1328	140	1.92
L36+00S 03+50E	0.3	20	34	363	1.5	1878	226	2.09
L36+00S 03+75E	0.1	14	41	316	0.7	1739	197	2.86
L36+00S 04+00E	<0.1	10	28	118	<0.1	1075	65	1.33
L36+00S 04+25E	<0.1	7	28	110	<0.1	1031	54	0.96
L36+00S 04+50E	<0.1	13	41	174	0.1	1749	132	3.18
L36+00S 04+75E	1.2	30	45	324	2.8	4146	301	2.95
L36+00S 05+00E	<0.1	8	19	92	<0.1	1106	33	1.00
L36+00S 00+25W	1.3	39	42	868	4.9	4233	292	3.24
L36+00S 00+50W	0.8	171	39	1774	14.1	2873	343	9.01
L36+00S 00+75W	0.6	23	44	258	1.0	3265	184	3.29
L36+00S 01+00W	0.5	21	43	368	1.2	3008	455	3.23
L36+00S 01+25W	0.6	24	37	158	0.6	2437	483	3.08
L36+00S 01+50W	1.1	24	65	211	1.0	3828	259	2.81
L36+00S 01+75W	0.7	34	31	307	0.8	1509	509	3.51
L36+00S 02+00W	0.5	17	30	155	0.3	2005	435	2.89
L36+00S 02+25W	0.7	36	39	178	3.1	2408	381	3.16
L36+00S 02+50W	0.3	25	29	144	0.4	1911	530	3.04
L36+00S 02+75W	0.2	13	27	161	<0.1	1764	233	3.12
L36+00S 03+00W	1.0	25	85	185	<0.1	3176	718	3.52
L36+00S 03+25W	0.3	12	42	150	<0.1	2140	218	3.14
L36+00S 03+50W	0.2	8	34	139	<0.1	1481	264	2.63
L36+00S 03+75W	0.5	20	41	171	0.4	1750	293	3.15
L36+00S 04+00W	0.6	18	40	274	1.2	2288	543	2.85
L38+00S 00+25W	0.6	12	53	113	<0.1	2016	111	2.56
L38+00S 00+50W	0.1	37	59	122	0.2	2901	190	2.95
L38+00S 00+75W	0.3	24	50	111	<0.1	3467	173	2.72
L38+00S 01+00W	0.7	9	52	99	<0.1	4283	139	1.73
L38+00S 01+25W	0.4	13	37	176	0.4	1450	773	3.12
L38+00S 01+50W	0.6	31	40	157	0.3	1580	424	3.15
L38+00S 01+75W	0.3	14	32	106	<0.1	961	385	2.69
L38+00S 02+00W	0.1	13	30	100	0.2	1053	334	1.70
L38+00S 02+25W	0.3	15	35	106	0.2	1393	434	2.70
L38+00S 02+50W	0.5	15	38	121	0.1	1408	406	2.89
L38+00S 02+75W	0.3	17	39	130	<0.1	1341	456	3.05
L38+00S 03+00W	0.2	15	32	117	<0.1	1179	433	2.94
L38+00S 03+25W	0.1	16	32	120	0.2	1141	464	2.69
L38+00S 03+50W	0.1	25	34	171	1.1	1471	451	2.86
L38+00S 03+75W	1.0	71	36	613	5.3	6568	349	3.17
L38+00S 04+00W	1.1	22	35	184	0.3	3236	149	2.32
L46+00S 00+00 BL	0.4	49	87	3607	40.1	1.9%1200		2.74
L46+00S 00+25E	0.5	20	42	3466	12.7	3818	632	3.09
L46+00S 00+50E	1.3	28	93	1340	5.1	5945	233	2.85
L46+00S 00+75E	0.4	13	52	555	1.7	4226	260	2.82
L46+00S 01+00E	0.4	24	48	1231	5.8	6574	247	2.04
L46+00S 01+25E	0.6	30	52	893	5.1	4438	659	2.36
L46+00S 01+50E	0.9	26	51	1537	6.0	4206	342	2.56
L46+00S 01+75E	0.5	21	59	1309	8.8	3463	483	2.68
L46+00S 02+00E	1.1	41	73	1860	12.1	6411	361	3.14
L46+00S 02+25E	1.8	59	51	3018	17.4	8356	1069	4.78
L46+00S 02+50E	1.8	80	86	1127	5.1	672	146	7.98
L46+00S 02+75E	1.0	38	71	685	3.0	4864	268	3.26
L46+00S 03+00E	0.3	23	28	469	7.1	1101	617	1.69
L46+00S 03+25E	0.8	29	87	658	5.3	2839	423	2.56
L46+00S 03+50E	0.9	34	70	470	3.7	2723	289	2.61
L46+00S 03+75E	1.0	30	100	1105	6.9	4345	464	2.66
L46+00S 04+00E	1.3	24	32	403	3.3	2335	303	2.12
L48+00S 00+25W	0.3	9	83	705	1.1	2237	157	4.02
L48+00S 00+50W	0.6	7	26	436	0.9	1623	114	2.82
L48+00S 00+75W	0.7	67	25	441	3.9	1427	887	2.44
L48+00S 01+00W	0.3	16	20	85	0.4	941	359	2.10
L48+00S 01+25W	0.4	18	25	199	0.5	1087	318	2.17
L48+00S 01+50W	0.3	20	25	109	0.1	1036	427	2.54
L48+00S 01+75W	0.2	13	22	111	0.6	1000	380	2.07
L48+00S 02+00W	0.3	12	26	125	<0.1	1043	163	2.26
L48+00S 02+25W	0.2	11	19	77	0.2	829	384	2.35
L48+00S 02+50W	0.4	14	24	113	0.1	1245	374	2.43
L48+00S 02+75W	0.2	14	20	85	0.3	771	391	2.24
L48+00S 03+00W	0.9	16	28	135	0.5	1558	284	2.55
L48+00S 03+25W	0.5	21	56	88	<0.1	1078	304	2.36
L48+00S 03+50W	0.3	16	29	89	0.5	1075	841	3.01
L48+00S 03+75W	0.2	11	28	184	<0.1	1584	165	2.24
L48+00S 04+00W	0.5	23	34	124	0.5	1037	487	2.55
L50+00S 00+25W	0.3	21	47	271	<0.1	1391	317	3.73
Min Limit	0.1	1	2	1	0.1	2	1	0.01
Max Reported*	99.9	20000	20000	20000	99.9	9999	9999	9.99
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 94F2901

Client: Metall Mining Corporation iPL: 94F2901 M Out: Jul 04, 1994 Page 9 of 12 Section 1 of 1
Project: 677 446 Soil [027412:48:2] 94] In: Jun 29, 1994 Certified BC Assayer: David Chiu

Sample Name			Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L40+00S	00+00 BL	S	0.6	20	25	482	0.5	2682	119	2.76
L40+00S	00+25E	S	0.5	13	52	538	1.2	2576	194	3.34
L40+00S	00+50E	S	0.2	15	44	501	0.6	2501	313	3.28
L40+00S	00+75E	S	0.8	21	23	237	2.0	1624	323	2.14
L40+00S	01+00E	S	0.6	19	46	304	0.3	1748	356	3.74
L40+00S	01+25E	S	0.4	16	39	138	0.4	2702	99	2.17
L40+00S	01+50E	S	0.4	21	34	191	0.8	2530	225	2.73
L40+00S	01+75E	S	0.3	17	49	186	0.4	2332	150	3.07
L40+00S	02+00E	S	0.6	16	55	178	0.7	4222	258	3.85
L40+00S	02+25E	S	0.1	9	46	167	1.3	1832	117	2.76
L40+00S	02+50E	S	0.4	17	34	190	1.3	3442	108	2.67
L40+00S	02+75E	S	1.1	21	50	628	3.1	5751	425	3.55
L40+00S	03+00E	S	0.8	15	41	310	1.1	2910	433	3.75
L40+00S	03+25E	S	3.6	36	57	248	0.7	7913	45	4.63
L40+00S	03+50E	S	1.7	30	48	319	1.3	8435	71	4.44
L40+00S	03+75E	S	0.5	23	65	507	2.8	2503	274	2.11
L40+00S	04+00E	S	0.5	20	40	284	1.0	2565	240	2.05
L40+00S	04+25E	S	<0.1	14	28	253	0.7	1427	139	1.93
L40+00S	04+50E	S	0.8	20	30	273	0.5	1816	155	2.37
L40+00S	04+75E	S	0.1	11	18	128	<0.1	1245	39	1.22
L40+00S	05+00E	S	0.6	35	32	274	1.8	1906	263	3.47
L40+00S	05+25E	S	1.8	25	35	336	1.9	1701	417	3.47
L40+00S	05+50E	S	0.3	19	30	274	1.3	2059	346	2.18
L40+00S	05+75E	S	0.3	16	22	192	1.1	1586	433	1.88
L40+00S	06+00E	S	0.6	23	26	244	4.1	1691	430	2.19
L40+00S	00+25W	S	0.9	26	30	444	2.6	2478	342	2.56
L40+00S	00+50W	S	0.7	28	43	628	2.9	2619	419	2.59
L40+00S	00+75W	S	0.8	25	92	800	5.3	3278	337	2.62
L40+00S	01+00W	S	0.7	22	51	590	3.3	3211	241	2.26
L40+00S	01+25W	S	0.7	22	49	202	0.4	2151	148	3.54
L40+00S	01+50W	S	0.7	11	40	136	<0.1	1644	170	4.53
L40+00S	01+75W	S	1.3	14	82	121	0.4	3292	106	3.78
L40+00S	02+00W	S	9.7	57	634	174	0.9	3773	43	6.40
L40+00S	02+25W	S	0.4	11	26	91	<0.1	2173	53	1.28
L40+00S	02+50W	S	0.2	13	31	186	0.5	1377	494	3.94
L40+00S	02+75W	S	0.4	9	27	134	<0.1	1250	212	3.58
L40+00S	03+00W	S	0.2	28	37	374	<0.1	1266	144	2.76
L40+00S	03+25W	S	0.1	13	34	144	<0.1	1243	172	4.45
L40+00S	03+50W	S	0.1	9	31	147	0.1	962	180	3.11
L40+00S	03+75W	S	1.0	61	34	316	0.3	5457	291	4.13
L40+00S	04+00W	S	0.2	14	26	108	<0.1	960	820	3.07
L42+00S	00+25W	S	0.3	24	32	106	<0.1	1094	461	3.28
L42+00S	00+50W	S	0.2	13	26	131	<0.1	1059	401	3.10
L42+00S	00+75W	S	0.2	19	25	90	<0.1	1008	523	3.06
L42+00S	01+00W	S	0.2	15	28	96	<0.1	919	466	3.37
L42+00S	01+25W	S	0.4	19	31	503	1.9	2101	974	2.76
L42+00S	01+50W	S	0.3	14	29	303	0.1	1550	259	2.98
L42+00S	01+75W	S	0.2	10	30	198	0.6	1361	508	3.79
L42+00S	02+00W	S	0.4	20	35	198	0.2	2576	142	3.19
L42+00S	02+25W	S	0.5	28	34	175	1.4	1908	319	4.40
L42+00S	02+50W	S	0.3	32	37	269	4.1	2434	207	3.51
L42+00S	02+75W	S	0.3	16	35	159	0.7	2109	125	3.19
L42+00S	03+00W	S	0.2	22	29	187	0.6	1271	163	4.00
L42+00S	03+25W	S	0.2	11	27	175	0.3	1342	223	3.15
L42+00S	03+50W	S	0.2	10	28	111	0.2	1341	111	2.37
L42+00S	03+75W	S	0.4	18	35	155	0.4	1271	156	3.28
L42+00S	04+00W	S	0.3	11	25	156	<0.1	1722	148	2.80
L44+00S	00+00 BL	S	0.4	13	27	133	0.1	5433	116	3.04
L44+00S	00+25E	S	0.2	8	24	133	<0.1	1204	285	3.26
L44+00S	00+50E	S	0.2	9	22	92	<0.1	879	206	2.96
L44+00S	00+75E	S	0.3	22	20	74	0.1	813	357	2.44
L44+00S	01+25E	S	0.4	11	38	1115	2.3	2574	960	3.36
L44+00S	01+50E	S	0.4	26	40	3498	11.2	3372	336	3.44
L44+00S	01+75E	S	0.8	47	49	3847	19.0	3601	659	2.95
L44+00S	02+00E	S	1.4	47	68	3760	17.7	4237	275	2.87
L44+00S	02+25E	S	1.6	32	106	545	2.0	3013	56	3.13
L44+00S	02+50E	S	1.7	143	68	5855	34.5	2530	482	3.76
L44+00S	02+75E	S	2.2	96	48	5978	37.7	6623	578	6.48
L44+00S	03+00E	S	1.1	20	71	716	2.5	2870	231	5.07
L44+00S	03+25E	S	1.5	36	41	641	6.1	4198	400	2.73
L44+00S	03+50E	S	1.4	50	52	1863	15.7	4937	501	3.14
L44+00S	03+75E	S	1.2	51	42	1081	7.1	6881	359	3.24
L44+00S	04+25E	S	0.5	38	15	651	6.8	1104	178	2.00
L44+00S	00+25W	S	0.6	40	35	1826	5.9	2408	138	4.20
L44+00S	00+50W	S	0.6	25	25	523	3.9	1862	333	2.26
L44+00S	00+75W	S	0.8	23	35	494	3.0	3121	356	2.53
L44+00S	01+00W	S	1.5	45	31	1339	10.2	2979	514	3.16
L44+00S	01+25W	S	0.6	11	33	634	2.4	3295	199	3.69
Min Limit			0.1	1	2	1	0.1	2	1	0.01
Max Reported*			99.9	20000	20000	20000	99.9	9999	9999	9.99
Method			ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined ppb=Estimate/1000 %=Estimate % Max=No Estimate

CERTIFICAT OF ANALYSIS
iPL 94F2901

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Client: Metall Mining Corporation iPL: 94F2901 M Out: Jul 04, 1994 Page 11 of 12 Section 1 of 1
Project: 677 446 Soil [027412:48:3] 94] In: Jun 29, 1994 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L44+00S	01+50W	S 0.8	13	29	978	1.8	2644	172	4.02
L44+00S	01+75W	S 0.4	17	12	168	0.2	1066	416	2.92
L44+00S	02+00W	S 0.3	19	9	894	3.1	1127	599	2.47
L44+00S	02+25W	S 0.8	53	24	534	3.5	2758	199	3.26
L44+00S	02+50W	S 0.4	28	19	200	1.5	1549	321	2.61
L44+00S	02+75W	S 0.6	34	24	194	0.9	2297	300	2.68
L44+00S	03+00W	S 0.2	38	15	101	1.1	1173	477	2.15
L44+00S	03+25W	S 0.3	33	22	210	1.6	1197	269	2.26
L44+00S	03+60W	S 0.2	13	21	93	0.5	1019	472	2.51
L44+00S	03+75W	S 0.3	15	21	109	<0.1	1219	168	2.59
L44+00S	04+00W	S 0.3	17	22	141	0.2	1919	421	3.07
L46+00S	00+25W	S 0.3	19	<2	103	<0.1	1747	344	3.16
L46+00S	00+50W	S 0.3	14	13	117	0.1	1383	94	2.62
L46+00S	00+75W	S <0.1	12	17	79	<0.1	729	355	3.71
L46+00S	01+00W	S 0.5	20	25	144	0.5	1263	509	2.97
L46+00S	01+25W	S 0.1	10	27	1859	3.3	3336	362	3.21
L46+00S	01+50W	S 0.2	27	107	437	2.1	8084	57	3.55
L46+00S	01+75W	S 0.7	24	49	1838	2.6	5490	275	5.25
L46+00S	02+00W	S 0.2	20	29	299	0.9	2734	188	4.72
L46+00S	02+25W	S 0.3	28	20	623	3.2	1657	465	2.79
L46+00S	02+50W	S 0.2	29	19	167	1.7	1464	507	2.91
L46+00S	02+75W	S 0.2	19	3	121	0.2	1098	664	2.96
L46+00S	03+00W	S 0.3	17	11	108	<0.1	1186	448	2.89
L46+00S	03+25W	S 0.4	15	11	86	<0.1	1113	481	2.75
L46+00S	03+50W	S 0.3	26	14	115	1.6	943	333	2.49
L46+00S	03+75W	S 0.3	23	14	171	0.6	1025	435	2.42
L46+00S	04+00W	S 0.4	24	20	140	0.6	987	807	2.87
L48+00S	00+00 BL	S 0.4	23	16	199	1.5	796	429	1.88
L48+00S	00+25E	S 0.2	20	13	116	0.6	698	383	1.93
L48+00S	00+50E	S 0.2	19	17	163	1.9	695	382	2.20
L48+00S	00+75E	S 0.4	28	18	145	0.6	860	286	2.75
L48+00S	01+00E	S <0.1	12	22	338	0.4	1819	162	2.90
L48+00S	01+25E	S 0.6	25	98	343	1.2	3274	136	4.37
L48+00S	01+50E	S 0.3	19	41	364	1.2	3027	429	3.64
L48+00S	01+75E	S 0.5	22	71	293	1.9	3524	494	3.28
L48+00S	02+00E	S 0.6	24	39	258	1.0	4131	309	2.78
L48+00S	02+25E	S 0.4	24	31	247	0.8	1942	425	2.81
L48+00S	02+50E	S 0.7	24	32	220	1.2	2424	860	2.88
L48+00S	02+75E	S 3.4	25	166	297	2.1	2628	256	3.82

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L48+00S	02+85E	S 1.1	24	80	227	1.5	2979	678	2.28
L52+00S	00+25W	S 1.3	25	402	341	2.4	4616	201	3.56
L52+00S	00+50W	S 1.0	24	30	488	1.8	2735	204	2.32
L52+00S	00+75W	S 1.2	47	346	983	3.9	3869	264	5.07
L52+00S	01+00W	S 0.8	33	284	827	2.3	3538	421	4.50
L52+00S	01+25W	S 0.2	13	22	262	0.4	2440	172	2.61
L52+00S	01+50W	S 0.2	12	24	420	0.5	2619	149	2.96
L52+00S	01+75W	S 0.1	14	22	433	1.4	2290	130	2.59
L52+00S	02+00W	S 0.2	51	67	5992	17.7	9176	732	2.79
L52+00S	02+25W	S 0.4	13	29	349	1.1	2066	169	2.83
L52+00S	02+50W	S 0.5	18	23	1059	3.8	2120	351	3.06
L52+00S	02+85W	S 0.5	22	23	459	3.7	2158	458	2.77
L52+00S	03+00W	S 0.3	21	20	143	0.9	1723	334	2.06
L52+00S	03+25W	S <0.1	11	19	101	<0.1	1108	122	3.28
L52+00S	03+50W	S 0.3	17	24	197	0.8	1593	238	2.71
L52+00S	03+75W	S 0.1	7	19	239	<0.1	1645	134	1.99
L52+00S	04+00W	S 0.5	18	27	225	0.3	3238	170	2.71

	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe
Min Limit	0.1	1	2	1	0.1	2	1	0.01
Max Reported*	99.9	20000	20000	20000	99.9	9999	9999	9.99
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

CERTIFICATE OF ANALYSIS
iPL 94G0401

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Client: Metall Mining Corporation iPL: 94G0401 M Out: Jul 06, 1994 Page 3 of 3 Section 1 of 1
Project: 677 102 Soil [028314:53:3] 94] In: Jul 04, 1994 Certified BC Assayer: David Chiu

Sample Name			Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L42+00S	03+00E	S	0.9	35	52	1088	6.7	4353	273	2.43
L42+00S	03+25E	S	0.5	21	42	538	2.4	4538	398	3.12
L42+00S	03+50E	S	0.5	39	40	471	3.6	3471	394	3.25
L42+00S	03+75E	S	1.3	36	43	467	3.4	6774	317	3.23
L42+00S	04+00E	S	0.9	33	39	385	2.5	5729	207	2.95
L42+00S	04+25E	S	1.4	45	44	464	4.0	6601	359	3.38
L42+00S	04+50E	S	1.3	33	32	365	2.8	5381	240	2.53
L42+00S	04+75E	S	0.4	14	22	192	1.1	2375	384	1.66
L42+00S	05+00E	S	0.6	20	30	298	1.9	3175	289	2.25
L42+00S	05+25E	S	0.4	16	23	233	1.7	1780	314	2.03
L42+00S	05+50E	S	0.5	16	22	211	1.6	1512	283	1.85
L42+00S	05+75E	S	0.5	16	22	199	1.7	1594	361	1.85
L42+00S	06+00E	S	1.0	31	37	422	2.7	2630	453	2.83
L50+00S	00+00E	S	<0.1	10	44	369	0.6	1776	166	3.66
L50+00S	00+25E	S	1.3	21	78	175	0.2	9780	48	1.94
L50+00S	00+50E	S	0.9	67	39	680	2.8	4091	369	2.78
L50+00S	00+75E	S	0.6	25	72	477	2.3	3959	717	2.59
L50+00S	01+00E	S	0.2	16	26	136	0.4	2121	294	2.14
L50+00S	01+25E	S	0.6	14	34	489	1.2	2428	397	2.52
L50+00S	01+50E	S	0.5	16	36	350	1.1	2208	929	2.74
L50+00S	02+00E	S	1.0	47	60	1597	4.2	5891	546	3.34
L50+00S	02+25E	S	1.6	92	78	1022	4.4	6608	570	3.39
L50+00S	02+50E	S	1.6	53	99	691	1.3	6307	230	4.69
L50+00S	03+00E	S	1.8	60	54	878	7.6	4576	341	2.91

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %

Min Limit	0.1	1	2	1	0.1	2	1	0.01	
Max Reported*	99.9	20000	20000	20000	99.9	9999	9999	9.99	
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	
Min Limit	0.1	1	2	1	0.1	2	1	0.01	
Max Reported*	99.9	20000	20000	20000	99.9	9999	9999	9.99	
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	

--=No Test i.. Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined =Estimate/1000 %=Estimate % Max=No Estimate

CERTIFICATE OF ANALYSIS
iPL 94F2701

Client: Metall Mining Corporation iPL: 94F2701 M Out: Jun 29, 1994 Page 7 of 7 Section 1 of 1
Project: 667 249 Soil [026517:26:4] 94] In: Jun 27, 1994 Certified BC Assayer: David Chiu

Sample Name			Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L50+00S	00+50W	S	1.1	17	33	394	1.0	1973	256	2.88
L50+00S	00+75W	S	0.1	5	25	351	0.1	1923	106	2.04
L50+00S	01+00W	S	1.5	46	96	3006	11.1	6740	244	3.61
L50+00S	01+25W	S	0.5	14	31	555	1.3	2057	369	2.31
L50+00S	01+50W	S	0.9	31	41	304	2.0	1831	407	2.58
L50+00S	01+75W	S	0.2	7	41	332	0.4	1391	458	3.52
L50+00S	02+00W	S	0.2	18	37	130	0.2	1283	494	2.75
L50+00S	02+25W	S	0.3	17	32	119	0.6	1130	411	2.38
L50+00S	02+50W	S	0.4	19	33	110	0.9	1243	689	2.44
L50+00S	02+75W	S	0.3	18	32	132	0.6	1227	473	2.43
L50+00S	03+00W	S	0.3	16	39	180	0.8	1253	345	2.96
L50+00S	03+25W	S	0.3	17	35	124	0.6	1050	464	2.65
L50+00S	03+50W	S	0.4	20	86	140	0.9	1246	474	2.41
L50+00S	03+75W	S	0.7	24	32	195	0.7	1903	390	2.41
L50+00S	04+00W	S	0.4	17	23	187	0.7	1426	290	2.09

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %

Min Limit	0.1	1	2	1	0.1	2	1	0.01	
Max Reported	99.9	20000	20000	20000	99.9	9999	9999	9.99	
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	
Min Limit	0.1	1	2	1	0.1	2	1	0.01	
Max Reported	99.9	20000	20000	20000	99.9	9999	9999	9.99	
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 % Estimate % Max

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CERTIFICATE OF ANALYSIS
iPL 94I0803

Client: Metall Mining Corporation — iPL: 94I0803 M — Out: Sep 14, 1994 — Page 1 of 5 — Section 1 of 1
Project: 677 158 Soil — In: Sep 08, 1994 [046916:41:1] 94] — Certified BC Assayer: David Chiu

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L54+00S BL S	0.8	19	25	321	1.4	2138	226	1.96
L56+00S BL S	0.3	19	20	1622	5.1	2315	355	2.21
L60+00S BL S	<0.1	8	23	366	<0.1	1782	256	3.12
L52+00S 00+25ES	0.3	11	18	210	<0.1	1617	215	2.65
L52+00S 00+50ES	<0.1	9	22	164	<0.1	1157	174	2.15
L52+00S 00+75ES	<0.1	8	25	244	<0.1	1768	93	2.21
L52+00S 01+00ES	0.4	21	126	288	<0.1	1.0%	49	3.29
L52+00S 01+25ES	0.2	20	83	247	0.3	3176	99	3.08
L52+00S 01+50ES	<0.1	4	19	230	<0.1	1611	123	1.53
L52+00S 01+75ES	0.8	14	28	345	0.6	2517	746	2.68
L52+00S 02+00ES	0.8	21	24	293	0.5	2534	329	2.26
L52+00S 02+25ES	1.1	22	38	217	0.9	2411	391	1.80
L52+00S 02+50ES	2.9	69	180	1024	9.3	4303	1082	3.65
L52+00S 02+75ES	1.7	22	30	941	6.1	2799	179	2.55
L52+00S 03+00ES	2.0	32	49	526	2.9	3076	284	2.42
L52+00S 03+25ES	3.7	40	86	486	2.9	5129	108	2.38
L54+00S 00+25ES	0.6	14	47	540	1.7	3393	115	2.69
L54+00S 00+50ES	0.8	16	28	468	<0.1	2730	104	2.97
L54+00S 00+75ES	0.8	29	97	884	0.7	4470	166	6.91
L54+00S 01+00ES	0.3	18	58	885	2.3	2001	209	3.36
L54+00S 01+25ES	<0.1	13	26	339	<0.1	2337	228	2.45
L54+00S 01+50ES	<0.1	11	25	272	0.8	2397	106	2.14
L54+00S 01+75ES	0.7	31	26	305	0.5	4922	107	2.26
L54+00S 02+00ES	3.3	34	146	672	2.3	297	37	8.79
L54+00S 02+25ES	1.2	34	99	748	3.3	1868	98	5.32
L54+00S 02+50ES	0.9	22	31	264	1.3	4326	214	1.98
L54+00S 02+75ES	1.1	28	31	231	1.6	4273	272	1.87
L54+00S 03+00ES	0.9	22	33	317	1.7	3013	293	2.13
L54+00S 03+25ES	1.2	24	22	1229	43.1	2659	192	2.60
L54+00S 03+50ES	1.2	48	31	380	3.0	3617	169	1.98
L54+00S 03+75ES	1.0	53	32	1127	5.3	4057	475	2.82
L56+00S 00+25ES	<0.1	9	38	1176	4.0	1.2%	118	2.25
L56+00S 00+50ES	1.0	75	28	5256	34.7	4281	575	2.01
L56+00S 00+75ES	<0.1	14	22	2051	1.2	2161	193	2.28
L56+00S 01+00ES	0.2	13	25	1010	<0.1	2411	261	2.68
L56+00S 01+25ES	0.4	18	22	504	1.4	2244	295	2.62
L56+00S 01+50ES	0.7	16	30	401	<0.1	2773	402	2.52
L56+00S 01+75ES	0.5	23	30	328	0.2	2691	370	3.01
L56+00S 02+00ES	1.8	127	149	714	9.3	2280	719	4.71
L56+00S 02+25ES	0.6	16	33	226	0.9	2356	348	1.81
L56+00S 02+50ES	1.5	83	46	886	3.8	3336	277	2.58
L56+00S 02+75ES	2.5	46	83	704	5.7	3802	370	3.12
L56+00S 03+00ES	0.8	160	27	1851	7.9	2360	160	5.89
L56+00S 03+25ES	1.0	123	36	617	2.0	3317	101	3.66
L56+00S 03+50ES	1.5	89	44	1226	11.1	3692	249	2.68
L58+00S 00+25ES	1.0	33	27	349	2.2	5801	165	2.51
L58+00S 00+50ES	1.8	33	25	351	2.3	4511	186	2.46
L58+00S 00+75ES	0.4	11	22	303	0.6	2377	105	2.11
L58+00S 01+00ES	0.2	12	21	316	3.1	2573	191	2.26
L58+00S 01+25ES	1.0	9	25	454	3.2	2248	154	2.70
L58+00S 01+50ES	1.0	46	32	493	3.6	4777	218	2.75
L58+00S 01+75ES	2.2	45	24	336	2.6	4810	167	2.20
L58+00S 02+00ES	1.9	33	26	1090	7.8	2951	179	2.66
L58+00S 02+25ES	1.1	27	22	315	3.7	3204	137	2.32
L58+00S 02+50ES	1.3	33	21	2247	51.0	1991	471	1.92
L58+00S 02+75ES	3.0	72	116	2457	27.8	3270	262	3.40
L60+00S 00+25ES	1.0	18	19	142	1.0	1508	421	1.91
L60+00S 00+50ES	<0.1	16	27	489	2.7	2513	390	2.28
L60+00S 01+00ES	0.7	175	20	2476	19.5	1532	2177	4.72
L60+00S 01+25ES	0.2	23	20	268	1.4	3459	279	1.86
L60+00S 02+25ES	0.7	25	18	557	2.3	3219	217	2.17
L60+00S 03+00ES	0.4	12	29	493	1.8	3197	244	2.34
L60+00S 03+25ES	1.2	21	20	272	0.7	2310	386	2.47
L60+00S 03+50ES	<0.1	14	24	234	0.1	1961	210	2.23
L60+00S 03+75ES	0.2	16	28	209	0.3	2464	63	2.08
L60+00S 04+00ES	0.1	12	25	232	0.7	1864	262	2.26
L62+00S 00+25ES	1.7	123	11	965	4.6	617	249	11%
L62+00S 00+50ES	1.5	13	26	488	3.6	2170	328	2.18
L62+00S 00+75ES	0.2	32	176	449	0.6	7930	54	4.05
L62+00S 01+00ES	3.2	29	149	259	1.0	7625	84	3.09
L62+00S 01+25ES	0.6	11	25	375	<0.1	2124	117	2.42
L62+00S 01+50ES	0.5	7	20	415	1.4	1303	456	1.60
L62+00S 01+75ES	<0.1	7	22	350	0.6	1337	147	1.76
L62+00S 02+00ES	<0.1	8	21	163	<0.1	1860	48	1.83
L62+00S 02+25ES	0.4	14	24	376	2.8	1979	446	2.31
L62+00S 02+50ES	<0.1	11	21	358	0.5	2037	117	2.18
L62+00S 02+75ES	<0.1	9	22	333	1.2	1854	255	2.06
L62+00S 03+00ES	1.2	19	31	645	0.1	1860	89	2.49
Min Limit	0.1	1	2	1	0.1	2	1	0.01
Max Reported*	99.9	20000	20000	20000	99.9	9999	9999	9.99
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 94I0803

Client: Metall Mining Corporation iPL: 94I0803 M Out: Sep 14, 1994   Section 1 of 1
Project: 677 158 Soil In: Sep 08, 1994 [046916:41:2] 94] Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L62+00S	03+25ES	2.4	20	360	446	1.1	2935	117	6.72
L62+00S	03+50ES	0.9	13	84	274	0.8	3144	74	2.56
L62+00S	03+75ES	0.5	11	30	239	<0.1	2323	47	0.93
L62+00S	04+00ES	0.8	16	31	573	0.6	1831	122	2.56
L54+00S	00+25WS	1.0	20	7	197	3.4	1708	93	0.79
L54+00S	00+50WS	0.1	16	18	329	2.6	2522	214	1.56
L54+00S	01+00WS	<0.1	21	24	882	6.1	3434	823	2.20
L54+00S	01+25WS	<0.1	13	27	442	3.1	3793	203	2.39
L54+00S	01+50WS	0.1	13	24	312	1.8	2840	266	2.58
L54+00S	01+75WS	0.9	10	32	195	3.3	4979	102	3.40
L54+00S	02+00WS	0.8	16	29	192	0.9	5050	103	3.68
L54+00S	02+25WS	<0.1	13	23	236	0.8	2056	325	2.01
L54+00S	02+50WS	<0.1	18	25	212	<0.1	2546	193	3.30
L54+00S	02+75WS	1.2	20	54	442	1.9	1.1%	182	2.51
L54+00S	03+00WS	<0.1	18	34	137	<0.1	1270	138	3.55
L54+00S	03+25WS	<0.1	8	15	75	<0.1	1174	50	0.80
L54+00S	03+50WS	<0.1	6	17	155	<0.1	1727	58	1.47
L54+00S	03+75WS	<0.1	7	19	111	<0.1	1915	102	1.61
L54+00S	04+00WS	0.5	20	23	173	<0.1	1592	304	3.05
L56+00S	00+25WS	0.1	20	34	382	0.2	1853	268	2.84
L56+00S	00+50WS	<0.1	9	20	446	0.5	1588	263	2.33
L56+00S	01+00WS	<0.1	34	28	1891	51.7	2058	739	2.38
L56+00S	01+25WS	1.7	25	30	670	5.3	2229	459	3.24
L56+00S	01+50WS	0.4	15	26	1124	4.9	2079	479	2.72
L56+00S	01+75WS	<0.1	22	28	315	2.4	2816	486	2.83
L56+00S	02+00WS	0.4	13	23	134	0.3	1232	578	2.88
L56+00S	02+25WS	<0.1	7	16	129	<0.1	1247	232	2.22
L56+00S	02+50WS	<0.1	11	25	205	0.6	1017	103	2.03
L56+00S	02+75WS	0.9	19	17	190	1.5	1843	316	1.67
L56+00S	03+00WS	0.5	30	14	119	1.6	1353	292	1.43
L56+00S	03+25WS	<0.1	11	19	167	0.6	1186	405	2.16
L56+00S	03+50WS	<0.1	5	22	99	<0.1	950	389	2.84
L56+00S	03+75WS	<0.1	9	20	139	<0.1	820	216	3.16
L56+00S	04+00WS	<0.1	4	14	60	<0.1	1211	51	0.62
L58+00S	00+25WS	0.5	19	16	138	0.5	1922	319	1.87
L58+00S	00+50WS	0.6	18	21	158	1.1	1678	457	2.22
L58+00S	00+75WS	<0.1	9	19	300	<0.1	1967	155	2.70
L58+00S	01+00WS	<0.1	6	20	440	<0.1	2339	134	1.82
L58+00S	01+25WS	<0.1	7	17	203	<0.1	1337	162	2.08
L58+00S	01+50WS	<0.1	7	16	143	<0.1	1137	147	1.86
L58+00S	01+75WS	0.8	17	22	185	0.1	1481	342	2.54
L58+00S	02+00WS	<0.1	5	17	101	<0.1	1142	54	1.47
L58+00S	02+25WS	<0.1	6	18	155	<0.1	998	164	2.30
L58+00S	02+50WS	<0.1	9	20	205	<0.1	1098	239	2.77
L58+00S	02+75WS	<0.1	8	17	189	<0.1	1725	92	2.21
L58+00S	03+00WS	<0.1	10	18	152	<0.1	1241	220	2.81
L58+00S	03+25WS	0.5	15	19	93	0.2	1007	325	1.60
L58+00S	03+50WS	<0.1	6	17	162	<0.1	884	181	2.15
L58+00S	03+75WS	<0.1	5	16	105	<0.1	822	159	2.28
L58+00S	04+00WS	<0.1	9	21	146	<0.1	1037	454	3.14
L60+00S	00+25WS	<0.1	8	18	192	<0.1	1534	172	2.17
L60+00S	00+50WS	0.1	9	20	260	<0.1	1707	178	2.72
L60+00S	00+75WS	<0.1	5	18	213	<0.1	1641	129	2.16
L60+00S	01+00WS	<0.1	9	16	244	<0.1	1685	148	2.68
L60+00S	01+25WS	0.3	10	24	294	<0.1	1680	144	3.02
L60+00S	01+50WS	<0.1	12	24	334	<0.1	1917	385	3.36
L60+00S	01+75WS	<0.1	9	19	228	<0.1	2028	165	3.18
L60+00S	02+00WS	<0.1	8	22	293	<0.1	1711	155	2.97
L60+00S	02+25WS	<0.1	7	17	257	<0.1	932	260	2.44
L60+00S	02+50WS	<0.1	12	24	184	<0.1	1062	427	3.01
L60+00S	02+75WS	<0.1	6	17	78	<0.1	906	120	1.37
L60+00S	03+00WS	<0.1	9	20	140	<0.1	1046	344	2.85
L60+00S	03+25WS	<0.1	6	15	129	<0.1	1026	144	2.20
L60+00S	03+50WS	<0.1	10	16	163	<0.1	819	412	2.76
L60+00S	03+75WS	<0.1	6	17	284	1.3	968	478	2.01
L60+00S	04+00WS	<0.1	10	22	267	1.0	845	971	2.14
L62+00S	00+50WS	0.6	23	19	144	0.7	1939	331	2.09
L62+00S	00+75WS	0.8	22	20	193	1.0	3266	180	1.97
L62+00S	01+00WS	0.7	25	20	183	0.7	2360	264	2.14
L62+00S	01+50WS	0.6	17	18	162	0.9	2945	222	1.68
L62+00S	01+75WS	<0.1	8	8	75	0.7	1254	139	1.03
L62+00S	02+00WS	0.7	22	18	173	0.9	1961	293	2.10
L62+00S	02+25WS	0.6	20	23	165	0.9	2770	430	2.06
L62+00S	02+50WS	0.6	12	23	213	0.7	2004	441	2.12
L62+00S	02+75WS	0.2	8	24	207	0.1	2140	212	2.37
L62+00S	03+00WS	<0.1	12	20	157	<0.1	1802	335	2.65
L62+00S	03+25WS	0.6	23	16	126	0.6	1556	299	2.26
L62+00S	03+50WS	0.1	16	24	107	<0.1	1012	406	3.13
Min Limit		0.1	1	2	1	0.1	2	1	0.01
Max Reported		99.9	20000	20000	20000	99.9	9999	9999	9.99
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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Fax (604) 879-7898

CERTIFICAT.. OF ANALYSIS
iPL 94I0803

Client: Metall Mining Corporation
Project: 677 158 Soil

iPL: 94I0803 M
Out: Sep 14, 1994
In: Sep 08, 1994 [046916:41:3] 94]

Section 1 of 1
Certified BC Assayer: David Chiu

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L62+00S 03+75WS	<0.1	7	18	69	<0.1	863	103	1.60
L62+00S 04+00WS	<0.1	13	19	133	<0.1	1016	396	2.85

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %

Min Limit	0.1	1	2	1	0.1	2	1	0.01	0.1	1	2	1	0.1	2	1	0.01
Max Reported*	99.9	20000	20000	20000	99.9	9999	9999	9.99	99.9	20000	20000	20000	99.9	9999	9999	9.99
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	IC	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

APPENDIX III

PACIFIC Geophysical Limited

4508 WEST 13TH AVENUE, VANCOUVER, B.C. V6R 2V4 TEL./FAX 604-222-2125

Nov. 2, 1994

Logistics Report: VLF-Resistivity/VLF-EM/Magnetic Surveys
Gataga Project, B.C., for Metall Mining Corp.

A single large grid area has been surveyed using the VLF-Resistivity method, the VLF-EM method and the Total Field Magnetic method.

The survey crew mobilized to the property on Sept.9, 1994, and returned to Vancouver on Sept. 23, 1994.

An EDA Omniplus vlf-resistivity/vlf-em/magnetic unit was used to make the measurements. A 10 meter electric dipole was employed to record resistivity data on three of the grid lines, while all of the remaining lines were surveyed using a 20 meter electric dipole. An EDA PPM375 total field recording magnetometer was used as a base station unit, in order to correct the magnetic data for any diurnal effects. VLF-Resistivity data were plotted at the mid-point of the measuring dipole, while VLF-EM and magnetic data were plotted at the instrument location.

The VLF Resistivity technique measures the electric field induced across the earth by a VLF-EM transmitter station. One horizontal component of the magnetic field is also measured, in a direction perpendicular to the line joining the measurement point and the transmitter station. The ratio of the electric field (mv/km) over the magnetic field (mgamma) times the inverse of 5 times the transmitted frequency yields the "Caignard" resistivity in ohm-metre units. Depth of effective investigation is governed by the resistivities encountered, and the frequency of the transmitted signal. Higher resistivity rock, and/or lower frequencies yield greater penetration depths. In the present case, the applied frequency is constant (23.4 kHz); therefore, depth of search is governed only by the resistance of the underlying material.

The phase angle between the electric and magnetic fields is also recorded because this can provide information as to the vertical resistivity distribution beneath the measurement site. For example, a phase angle of 45 degrees between the electric and magnetic fields indicates a homogeneous situation, whereas a phase value of less than 45 degrees points to increasing resistivity with increasing depth, and vice-versa.

One of the principal advantages of the VLF-Resistivity method, compared to conventional VLF-EM, is the ability of the former technique to detect resistive material, as well as conductive features.

Pacific Geophysical Ltd.

Paul Cartwright

Paul Cartwright, P.Geo.

APPENDIX IV

HOLE NUMBER: A-94-01

MINNOVA INC.
DRILL HOLE RECORD

DATE: 22-March-1995
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GATAGA
PROJECT NUMBER: 677
CLAIM NUMBER: AKIE 4
LOCATION: NORTH AKIE RIVER

PLOTTING COORDS GRID: AKIE
NORTH: 1925.00S
EAST: 50.00E
ELEV: 1475.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -55° 0' 0"
LENGTH OF THE HOLE: 262.40m
START DEPTH: 0.00m
FINAL DEPTH: 262.40m

COLLAR GRID AZIMUTH : 90° 0' 0"

COLLAR ASTRO. AZIMUTH : 50° 0' 0"

DATE STARTED: July 22, 1994
DATE COMPLETED: July 24, 1994
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
CAPPED: NO
HOLE SIZE: NQ

CONTRACTOR: BRITTON BROS.
CASING: 15.2 M
CORE STORAGE: ON SITE

PURPOSE: TEST COINCIDENTAL Pb-Ba SOIL ANOMALY

COMMENTS :

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
61.00	-	-53° 0'	ACID	OK	
121.90	-	-49° 0'	ACID	OK	
182.90	-	-48° 0'	ACID	OK	
262.40	-	-47° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 15.20	CASING «CASING»					
15.20 TO 109.40	PYRITIC SHALES «PY SHALES»	Black, f.gr. graphitic (very carbonaceous) shales. 3-7%, 1-3 mm rounded to irregular shaped white variably siliceous and calcareous nodules (barite) which have rims or cores of pyrite. Some nodules look more like siltstone fragments Local rounded up to 5 cm calcareous concretions with fine disseminated pyrite			1-2% finely disseminated py throughout, 3-4% pyrite associated with possible barite nodules Below 39.4 -common 5-20 cm thick intervals of u.f.gr. pyrite laminations -intervals with concentrations of pyrite laminations as follows: 39.4-40.9 46.6-47.3 50.6-51.0	
		40.2 Bedding @ 46.0 Bedding @ 44.7 -irregular and rounded barite-pyrite nodules stop Below 44.7 -occasional 1-5 cm thick beds with 2-3% mm barite nodules	75 70			
		50.6 Bedding @ 69.9 Bedding @ 72.2-73.3 -7%, 1-3 mm rounded and irregular siliceous calcareous pyritic baritic? nodules as seen at top of hole	80 50	73.7-74.5 -strong qtz-calcite veining	Finely laminated py intervals continued 65.8-66.0 67.1-67.4 68.0-68.3 69.8-70.2 75.4-77.9 -2-4% v.f. diss. pyrite throughout	
		79.9-86.1 -occasional 0.5 cm barite beds -thin silicified beds throughout 79.9-86.1 -bedding within sulphide laminations @ 70-75 deg		85.5-86.9	┤79.9-86.1├ «LAM PY» -zone of abundant pyrite laminations;	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				-strong qtz-calcite veining 86.9-88.2 -weak qtz-calcite veining	overall 10-15% pyrite in 1-4 cm zones of semi-massive to massive laminated pyrite -between sections of laminated pyrite 3-5% diss py	
		88.3 -15 cm coarse crystalline graphite 92.1-102.1 -very common 1-4 cm wide intervals of bedded blebby calcareous barite-pyrite interlaminated with ultra fine grained pyrite laminations; sulphide barite intervals separated by silicified shales with 3-5% diss pyrite 96.6 Bedding @ 104.2 -possible graded bedding within sulphides indicate tops are downhole - overturned	80	102.1-109.4 -moderate qtz-calcite veining within silicified shales	92.1-102.1 «LAM PY» -abundant 1-4 cm wide laminar pyrite intervals	
109.40 TO 113.10	SILICIFIED BARITIC SHALE «BaSH-CHT»	Streaky, creamy black, f.gr. graphitic, moderate to strongly foliated interbedded mix of weakly silicified black shale and strongly silicified shale/chert; chert beds generally boudined stretched out within softer shales; strongly silicified shale/chert beds generally contain fine white silica veinlets normal to bedding; probable blebby bartie within strong foliated zones 112.0-113.1 -weaker foliation showing better interlaminating of baritic, silicified and pyritic beds		Strong to intense fine quartz calcite veining	109.4-112.0 -2-3% diss. py, rare distorted py laminations 112.0-113.1 -7-10% py as fine laminations and disseminated within barite blebs	Strike equivalent of Cardiac Creek discovery zone
113.10 TO 121.20	SILICIFIED SHALE, SILT STONE FRAGMENTAL «SIL SH, SL T FRAG»	Black, f.gr. massive siliceous shale, minor bedding at top of unit. 5-10%, up to 2 cm weakly calcareous pyritic lighter grey silty fragments and some disrupted layers 114.3-114.65 -siltstone conglomerate abundant rounded light grey calcareous silty fragments		Strongly silicified	113.1-114.65 -3-5% fine diss py	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
121.20 TO 123.20	LIMESTONE BRECCIA «LST BX»	Light grey, m.gr. granular, strongly calcareous sand (limestone sand) with angular <2 cm fragments of black variably siliceous Gunsteel shale				Possible Devonian Silurian Contact
123.20 TO 262.40	CALCAREOUS SILTSTONE «CALC SLTST » E.O.H.	Dark grey, fine to coarse silt, weakly calcareous with streaky patchy and mottled light grey strongly calcareous areas. Some which may be defining a bedding. Weakly fragmental from 122.8 to 139.9 Possible bedding angles 140.5 @ 155.0 @ 194.0 @	 75 85 90		 171.5 -5 cm 10-15% diss py	Silurian Road River Formation

Sample	From (m)	To (m)	Length (m)	ASSAYS Zn %	Pb %	Ag g/t	Ba %	Cd %	S %	GEOCHEMICAL Zn ppm	Pb ppm	Ag ppm	Ba ppm	Cd ppm	Cu ppm	S.G.	COMMENTS
33512	39.40	40.90	1.50	0	0.01	1.2	1.34			46	98	1.2	n/a	.3			
33513	46.60	47.30	0.70	0	0.02	1.6	0.96			13	170	1.6	9560	.2			
33514	50.60	51.00	0.40	0	0.02	2.2	1.52			16	162	2.2	n/a	.1			
33515	65.80	66.00	0.20	0	0.02	2.7	1.45			61	227	2.7	n/a	.2			
33516	67.10	67.40	0.30	0	0.03	2.9	1.71			30	275	2.9	n/a	.1			
33517	68.00	68.30	0.30	0	0.03	3.4	1.67			19	326	3.4	n/a	.1			
33518	69.80	70.20	0.40	0	0.02	2.7	1.82			15	248	2.7	n/a	.1			
33519	72.20	73.30	1.10	0	0	0.8	1.98			14	35	.8	n/a	.2			
33520	79.90	81.40	1.50	0.03	0	0.7	3.00			288	33	.7	n/a	1.8			
33521	81.40	82.90	1.50	0.02	0	0.9	1.31			167	32	.9	n/a	.7			
33522	82.90	84.50	1.60	0.03	0	0.3	1.45			365	23	.3			34		
33523	84.50	86.10	1.60	0.08	0	0.9	2.36			791	19	.9	n/a	2.0			
33524	92.10	94.00	1.90	0.02	0	2.1	2.13			184	30	2.1	n/a	1.7			
33525	96.30	97.60	1.30	0.01	0	2.6	3.52			95	31	2.6	n/a	.8			
33526	109.40	112.00	2.60	0.05	0	1.5	1.18			524	23	1.5	n/a	4.5			
33527	112.00	113.10	1.10	0	0.01	1.8	13.20			43	102	1.8	n/a	.3			
34921	113.10	114.90	1.80	0.11	0.01	1.6	6.56			1140	72	1.6		8.2	41		
34922	114.90	116.40	1.50	0.06	0	1.4	1.88			582	47	1.4		4.6	44		
34923	121.20	123.20	2.00	0.11	0.01	3.5	.18			1090	55	3.5		6.9	18		
AVE.	112.00	114.90	2.90	0.07	0.01	1.68	9.08			723.90	83.38	1.68		5.20	25.45		

Total amount of samples= 19
Total length sampled = 23.3M

HOLE NUMBER: A-94-02

MINNOVA INC.
DRILL HOLE RECORD

DATE: 22-March-1995
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GATAGA
PROJECT NUMBER: 677
CLAIM NUMBER: AKIE 5
LOCATION:

PLOTTING COORDS GRID: AKIE
NORTH: 2380.00S
EAST: 190.00E
ELEV: 1600.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -54° 0' 0"
LENGTH OF THE HOLE: 178.90m
START DEPTH: 0.00m
FINAL DEPTH: 178.90m

COLLAR GRID AZIMUTH : 90° 0' 0"

COLLAR ASTRO. AZIMUTH : 50° 0' 0"

DATE STARTED: July 26, 1994
DATE COMPLETED: July 27, 1994
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
CAPPED: NO
HOLE SIZE: NQ

CONTRACTOR: BRITTON BROS. DRILLING
CASING: 9.8 M, PULLED
CORE STORAGE: ON SITE

PURPOSE: TEST 3100 PPM Pb AND COINCIDENT Ag SOIL ANOMALY

COMMENTS :

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
61.00	-	-53° 0'	ACID	OK	
121.90	-	-51° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 9.80	CASING					
9.80 TO 21.30	CRINOIDAL LIMESTONE «CRIN LST»	Light, m.grey, c.gr., very granular, massive. Common single hole crinoid oscicles, rare coral (Amphipora?) fragments.		Abundant calcite veining		Footwall to Gunsteel shales.
21.30 TO 59.40	LIMESTONE SILTY LIMESTONE MUDDY «LST»	Medium grey, streaky white and grey, fine grained. Thinly laminated/bedded medium grey muddy limestone with cleaner creamy grey limestone. Darker grey limestone beds more abundant Bedding 26.5 @ 35.0 @ 48.5 @ Occasionally creamy grey limestone beds are discontinuous, patchy Downhole gradually get some non calcareous dark grey mud/silt interval which become more common from 53.4-59.4 53.4-59.4 gradational lower contact	 80 80 83		Rare, 2-3 cm wide zones of 10% diss py	Similar unit as seen at base of hole A-94-1
59.40 TO 178.90	CALCAREOUS SILTSTONE & LIMESTONE «CALC SLTST» E.O.H.	Dark grey calcareous siltstone with creamy light grey silty limestone laminations and thin beds. Downhole, dark grey silt zones graphitic with anastamosing network of graphite 73.3 Bedding @ 97.7 Bedding @ Progressing downhole limestone intervals less abundant 134.0 -15 cm black and creamy grey chert	 83 80		[59.4-81.4] «3-5% py» -3-5% pyrite as discontinuous wisps parallel to bedding up to continuous very thin laminations within darker grey calcareous silt intervals Overall unit contains <1% py 101.6 -10 cm of 20% dark fine diss py within a strongly calcareous zone 103.5 -8 cm of 30% pyrite within strongly calcareous zone	 Possible concretion?

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				155.9-162.1 -weak calcite veining		
		162.8-166.3 -surface type orange-brown oxidation envelopes away from 1-2 mm wide calcite veins; oxidation also along fracture planes		174.6-175.3 -medium brown carbonate alteration	176.2-178.2 -<1 to locally 3% wispy pyrite	

Sample	From (m)	To (m)	Length (m)	ASSAYS Zn %	Pb %	Ag g/t	Ba %	Cd %	S %	GEOCHEMICAL Zn ppm	Pb ppm	Ag ppm	Ba ppm	Cd ppm	Cu ppm	S.G.	COMMENTS
33528	101.60	101.70	0.10	0	0	1.5	0.25			21	47	1.5	2510	.2			
33529	103.40	103.60	0.20	0	0	1.0	0.13			20	26	1.0	1340	.1			

Total amount of samples= 2
Total length sampled = 0.3M

HOLE NUMBER: A-94-03

MINNOVA INC.
DRILL HOLE RECORD

DATE: 22-March-1995
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GATAGA
PROJECT NUMBER: 677
CLAIM NUMBER: AKIE 7
LOCATION:

PLOTTING COORDS GRID: AKIE
NORTH: 3800.00S
EAST: 100.00E
ELEV: 1260.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -54° 0' 0"
LENGTH OF THE HOLE: 233.50m
START DEPTH: 0.00m
FINAL DEPTH: 233.50m

COLLAR GRID AZIMUTH : 90° 0' 0"

COLLAR ASTRO. AZIMUTH : 50° 0' 0"

DATE STARTED: July 29, 1994
DATE COMPLETED: August 1, 1994
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
CAPPED: NO
HOLE SIZE: NQ

CONTRACTOR: BRITTON BROS. DRILLING
CASING: 10.1 M
CORE STORAGE: ON SITE

PURPOSE: TEST DOWNDIP EXTENT OF 40 CM MASSIVE SULPHIDE HORIZON OUTCROPPING IN CARDIAC CREEK

COMMENTS :

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
61.00	-	-53° 0'	ACID	OK	
121.20	-	-52° 0'	ACID	OK	
182.90	-	0° 0'	ACID		WATER IN TUBE

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 10.10	CASING					
10.10 TO 163.90	PYRITIC BARITIC SHALE «PY-Ba-SH»	Black, f.gr. moderately foliated shale. Occasional 3-20 cm wide intervals of concentrated calcareous blebby barite and pyrite laminations within siliceous shales. Weakly graphitic, locally white speckled calcareous flecks			1-3% finely diss pyrite	Not as graphitic as hole A-94-1
					Areas of abundant sulphide laminations and blebby barite with blebby diss. py as follows:	
		11.3 Bedding @	35			
		15.5 Bedding @	50		14.9-15.2	
		23.6 Bedding @	40		-25-30% pyrite laminations possible sphalerite within laminations of	
		24.3 Bedding @	35		slightly different color than py laminations	
		Foliation @	63			
		Sulphides and barite nodules partially transposed into the foliation direction			23.4-24.4	
					10% pyrite laminations within 2-3 cm wide py-ba beds	
					-2-3% py within barite nodules	
		25.5 Bedding @	0			
		25.5-27.4				
		-folding of py-Ba beds with fold axis at 26.5 m			26.2-27.5	
		Bedding angles change from 10 to 55 to 35 deg			-25% laminated pyrite and blebby py within barite nodules	
		28.7-38.7				
		-highly fractured with oxidized fracture planes, very poor and rubbly recovery 32.6-35.7 10% recovery				
		43.0 Bedding @	25			
		Foliation @	70		49.0-50.4	
					-15-20% pyrite as f.gr. laminations drawn into the foliation and as rims and cores to calcareous baritic? nodules	
					-hosted by moderately silicified shales	
		49.2 Bedding @	30			
		49.6 Foliation @	50			
		50.0 Bedding @	35			
				Below 49.0		

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				-patchy silicification (silicified shales) becoming more pervasive down-hole, locally calcareous		
					53.2-53.5 -10-15% laminar bedded pyrite inter-bedded with calcareous baritic? nodules	
		53.5 Bedding @	47			
		Below 54.5 -begin to see cm scale round calcareous nodules			{53.5-92.1} «4-5% diss py» -4-5% finely disseminated pyrite throughout silicified shales, occurrence of laminated sulphides decreases sharply	
		74.6 Foliation @	40			
		78.1 Bedding @	50			
		83.4 Bedding @	60			
		84.5 Bedding @	60			
					{83.35-84.75} «LAM PY» -common 2-3 cm and up to 20 cm intervals of laminated pyrite and blebby calcareous barite with pyrite rims and cores -greatest concentrations of pyrite-barite from 84.4-84.85	What percentage of sulph?
		92.0 -2 cm interval of black shale fragments in a lighter grey sandy? matrix; tops possibly uphole?			Below 92.1 -sharp decrease in percentage of pervasive f.gr. disseminated pyrite Below 89.75 -occasional 2-3 cm laminated pyrite blebby barite horizons Below 102.7 -3-4% finely diss py throughout	
		104.9 Bedding @	50			
		Foliation @	50			
		106.5 Bedding @	55			
		115.0 -10 cm graphitic chert bedded @	55		115.2 -10 cm massive finely laminated pyrite -differences in coloration of laminations may be sphalerite beds?	
		121.6				

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
178.30 TO 233.50	CALCAREOUS SILTSTONE «CALC SLTST » E.O.H.	Medium-dark grey, fine to coarse siltstone, strongly calcareous (limey siltstone, silty limestone). Well developed streaky to layered dark grey/light grey appearance parallel to foliation. Lighter grey laminations more calcareous than darker grey bands (silty limestone) Foliation @ 50-55 deg Locally graphitic along foliation planes 200.7-211.4 -silty limestone -predominance of lighter grey more calcareous-limey beds, darker grey silty beds greater calcite content than previous 215.0 Bedding/Foliation @	55		Locally <1% wispy diss py 213.3-221.2 -<1-3% wispy flattened disseminated pyrite	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-15 cm laminated py-barite-shale -grading in pyrite indicates tops up hole? -Bedding @ -Foliation @	 70 30		 123.2 -20 cm 30-40% laminated pyrite	
					{123.2-136.3} «Lam py» -2-5 cm zones of laminar bedded pyrite and bedded blebby barite with pyritic cores and rims	
		131.4 Bedding @	50			
		136.3-146.3 -laminar bedded pyrite hosted by massive silicified shales		136.3-146.3 -moderate to strongly silicified	{136.3-146.3} «25% Lam py» -25% laminar bedded pyrite within 5-10 cm wide and up to 40 cm wide zones 2-3% diss py within shale host	
		143.2 Bedding @	57			
		146.3-163.4 -moderately silicified shale, massive, rare blebby barite			{146.3-163.4} «7-8% diss py» -7-8% finely diss py throughout; rare laminated pyrite	
		156.5 Foliation @	50			
		163.4-163.9 Possible Fault Zone -20 cm graphitic, light grey strongly silicified shale Faulted lower contact.		160.2-163.4 -weak calcite veinlets parallel to foliation 163.4-163.9 -strong calcite-qtz veining		
163.90 TO 178.30	INTERBEDDED SHALE & LAMINATED MASSIVE SULPHIDES «SH-MS»	Interbedded black silicified, weakly pyritic shale with 3-10 cm beds concentrated into 10-50 cm intervals of massive laminated pyrite-sphalerite. Sulphide beds often disrupted by rounded dark grey calcite septarian nodules. 163.9-172.7 30% laminated py-sp 172.7-178.3 20% laminated sulphides, mainly py Bedding fairly consistent between 45 and 50 deg		163.9-168.4 -strong quartz calcite veinings most of which is drawn into the foliation 168.4-176.3 -very weak calcite veining as 1-2 mm veinlets	163.9-172.7 -30% laminated py-sp within 3-10 cm massive sulphide beds 172.7-173.9 -weakly pyritic silicified shale, 3-5% diss py 173.9-178.3 -20-25% laminated py beds, sphalerite content decreases below 175.0	

Sample	From (m)	To (m)	Length (m)	ASSAYS Zn %	Pb %	Ag g/t	Ba %	Cd %	S %	GEOCHEMICAL Zn ppm	Pb ppm	Ag ppm	Ba ppm	Cd ppm	Cu ppm	S.G.	COMMENTS
33530	14.70	15.20	0.50	0.02	0	4.3	2.67			210	39	4.3	n/a	2.3			
33531	23.40	24.40	1.00	0.04	0	4.0	2.93			367	48	4.0	n/a	3.1			
33532	26.20	27.50	1.30	0.02	0	3.9	2.19			152	47	3.9	n/a	1.9			
33533	49.00	50.40	1.40	0.02	0	3.6	2.52			184	39	3.6	n/a	1.6			
33534	53.20	53.50	0.30	0.01	0	4.8	4.01			67	46	4.8	n/a	.4			
33535	84.40	84.90	0.50	0.01	0.01	5.9	1.49			64	68	5.9	>10000	.3	61		
33536	136.30	136.50	0.20	0.01	0.01	9.7	0.64			62	91	9.7	6410	1.2	106		
33537	136.50	137.40	0.90	0.11	0	2.3	1.99			1070	20	2.3	>10000	10.5	29		
33538	137.40	137.80	0.40	0	0	7.0	0.70			26	56	7.0	6980	.5	63		
33539	137.80	139.00	1.20	0	0	2.6	0.83			66	24	2.6	8270	.5	27		
33540	139.00	139.60	0.60	0	0	5.5	0.85			24	60	5.5	8520	.5	61		
33541	139.60	141.10	1.50	0.08	0	1.4	0.96			755	15	1.4	9610	7.1	24		
33542	141.10	143.00	1.90	0.02	0	2.3	1.05			187	26	2.3	>10000	1.8	37		
33543	143.00	143.40	0.40	0	0	5.1	0.71			31	43	5.1	7050	.7	58		
33544	143.40	145.70	2.30	0.01	0	2.0	1.00			132	26	2.0	9990	1.3	36		
33545	145.70	146.30	0.60	0	0	4.3	0.70			52	41	4.3	6970	.5	67		
33546	162.40	163.90	1.50	.31	.06	1.2	.96	.001									
33547	163.90	164.60	0.70	4.01	.39	6.6	2.09	.020							77		
33548	164.60	166.10	1.50	.35	.11	.9	2.03	.001							21		
33549	166.10	167.80	1.70	2.88	.43	4.2	4.46	.014							50		
33550	167.80	168.80	1.00	.46	.20	.6	1.21	.003							30		
33551	168.80	169.80	1.00	5.15	.85	7.0	6.00	.027							55		
33552	169.80	171.20	1.40	5.26	.90	6.9	5.58	.027							49		
33553	171.20	172.00	0.80	.31	.12	.8	1.91	.002							25		
33554	172.00	172.70	0.70	3.74	.65	6.6	4.39	.020							53		
33555	172.70	173.90	1.20	.26	.09	.7	1.89	.001							30		
33556	173.90	175.40	1.50	2.72	.37	5.1	4.05	.015							39		
33557	175.40	176.70	1.30	1.21	.15	5.1	1.77	.008							41		
33558	176.70	178.30	1.60	.45	.07	2.0	.86	.003									
33559	178.30	179.80	1.50	.04	.02	.8	.41	.001									
AVE.	163.90	176.70	12.80	2.35	0.38	3.96	3.31	0.01									
ALT.AVG.	163.90	172.70	8.80	2.73	0.46	4.05	3.60	0.01									

Total amount of samples= 30
Total length sampled = 32.4M

HOLE NUMBER: A-94-04

MINNOVA INC.
DRILL HOLE RECORD

DATE: 22-March-1995
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GATAGA
PROJECT NUMBER: 677
CLAIM NUMBER: AKIE 7
LOCATION:

PLOTTING COORDS GRID: AKIE
NORTH: 3800.00S
EAST: 100.00E
ELEV: 1260.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -73° 0' 0"
LENGTH OF THE HOLE: 296.00m
START DEPTH: 0.00m
FINAL DEPTH: 296.00m

COLLAR GRID AZIMUTH : 90° 0' 0"

COLLAR ASTRO. AZIMUTH : 50° 0' 0"

DATE STARTED: August 1, 1994
DATE COMPLETED: August 4, 1994
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
CAPPED: NO
HOLE SIZE: NQ

CONTRACTOR: BRITTON BROS. DRILLING
CASING: 6.1 M
CORE STORAGE: ON SITE

PURPOSE: TEST DOWNDIP EXTENT OF LAMINATED MASSIVE PY-SP IN HOLE A-94-3

COMMENTS :

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
61.00	-	-72° 0'	ACID	OK	
121.90	-	-70° 0'	ACID	OK	
182.90	-	-68° 0'	ACID	OK	VERY FAINT
274.30	-	-67° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 6.10	CASING					
6.10 TO 217.20	SILICIFIED PYRITIC SHALE «SIL PY-SH»	Black, f.gr., moderately foliated; bedding defined by calcareous baritic or pyritic beds/ laminations		Weakly to moderately silicified	<1% finely diss. py, local 1-3 cm, laminated py - blebby barite; locally 3-5% finely diss. py	
		17.1 Foliation @	30		6.1-69.2 -py - calcareous Ba zones intersected at 0-10 deg to c.a. - very exaggerated widths for very narrow zones	Overturned limb of anticline? Vert - steep east dipping
		23.3 Bedding @	10			
		26.7 Bedding @ -pyrite laminations tight isoclinal folds	20			
		38.8 Bedding @ Foliation @	5 30			
		44.0 Bedding @ 0-5 deg Foliation @	 30			
		50.8-51.0 -folding of py - calcareous barite				
		52.4 -foliation @	25			
		61.7 Foliation @	27			
		72.5 Foliation @	35		⌈62.6-69.2⌋ «Lam Ba-Py» -abundant laminar py and calcareous blebby barite with py cores; core angles <5 deg -beds also highly distorted/folded and drawn into the foliation	
		75.4-75.6 -2-3 mm dark rounded siliceous nodules some with pyrite cores; same zone also intersected in hole A-94-3 at 19.7 m			⌈75.6-99.7⌋ «3-4% diss py» -3-4% finely diss. py throughout.	
		74.4 -occasional 10-20 cm, strongly calcareous, lighter grey shale		76.4-105.5 -moderate to strongly silicified;	⌈76.4-90.5⌋ «Lam Ba-Py» -common 2-3 cm and up to 10 cm zones	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				increasing silicification downhole	of blebby barite with py cores,	
		77.9 Bedding angles increased to	25	becoming intense in last 15-20 m	laminar pyrite and light grey	
		Foliation @	35		calcareous baritic? laminations.	
					Possibly some sphalerite laminations	
		81.9 Bedding @	30			
		Foliation @	45			
		86.4 Bedding @	30			
		Foliation @	40			
		90.1			90.5-128.7	
		-15 cm med. dark grey massive chert			-rare 2-5 cm laminar py-Ba intervals	
		96.7 Foliation @	33			
		99.0 Bedding @	40			
		99.7-101.3				
		-med. dark grey massive chert				
		calcareous beds stop at 101.8				
				Below 105.5		
				-moderate silicification, patchy		
				stronger silicification in more		
				pyritic zones		
		109.0 Foliation @	20			
		114.8 Foliation @	20			
		115.5 Bedding @	35			
		121.0 Bedding @	35			
		129.5 Bedding @	40			
					{128.7-174.0} «7% Lam Py»	
		129.7 Foliation @	15		-5-7% laminar banded pyrite as <1-5 cm	
		136.4 Foliation @	30		thick beds some mixed with blebby	
					barite; hosted by silicified shale	
					with 2-4% and locally 5-7% finely	
					diss. py	
				139.0-150.8		
				-moderate calcite as 1-3 mm veinlets		
				generally parallel to foliation		
		141.4 Bedding @	30			
		142.0 Foliation @	35			
		150.9 Bedding @	45			
		168.2 Foliation @	25			
		169.0 Bedding @	35			

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		174.0-187.0 -laminated pyrite beds with 5-10% calcareous baritic? spots with cores of py, some calcareous layers within py laminations -hosted by weakly silicified shale with generally 1% very fine diss. pyrite -possible grading within pyrite laminations - tops downhole?		174.0-187.0 -weakly silicified, silicification increasing towards base of intervals	⟨174.0-187.0⟩ «15% Lam Ba-Py» -12-15% laminar bedded pyrite within 1 cm - 20 cm zones, (generally <10cm)	
		179.6 Bedding @	30			
		181.3 Foliation @	20			
		185.6 Bedding @	33			
		Base of interval 30 cm of ribbon banded chert, graphitic shale, weakly bedded to blebby barite			⟨187.0-217.2⟩ «5% diss py» -5-7% finely dissemination pyrite throughout; rare pyrite laminations	
		189.8 Foliation @	40			
		190.8 Bedding @	42			
		192.2-192.7 and 195.2-195.7 -strongly calcareous graphitic shale overlying graphitic chert				
		200.7 Foliation @	40			
		214.2-214.6 Possible fault zone, strongly sheared graphitic, silicified. Shearing @...	35	207.4-214.6 -weak calcite as 1-2 mm veinlets parallel to foliation; stronger calcite qtz veining in last 40 cm		
217.20 TO 252.00	INTERBEDDED SHALE & LAM INAR PY-SP «SH-PY-SP»	Black, massive, weak to moderately silicified shale interbedded with finely laminated py-sp; bedding often contorted around dark grey round calcite septarian nodules; some sulphide intervals contains up to 10% 1 mm barite nodules		Minor calcite veinlets, weak to mod. silicified	Black shale intervals generally sulphide poor <1-2% finely diss. py 217.2-241.0 -25% laminar bedded py-sp in 2-5 cm thick zones, locally concentrated over 30-50 cm zones -laminar sulphides predominantly py with possibly 4-5% overall sp content as individual bands and mixed with pyrite 238.3-239.6	
		218.1 Bedding @	40			
		222.2 Foliation @	25			
		226.5 Bedding @	40			
		236.7 Bedding @	45			

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
					-increasing sp content in laminar sulphides	
		241.0-247.0 -common 2-3 cm septarian nodules -some sphalerite layers are moderately calcareous -locally 1-2 mm blebby barite within black shales and sulphide bands			241.0-247.0 -40% laminar sp-py (sp rich) hosted by weakly silicified shale with <1-3% finely disseminated py	
		242.5 Bedding @ 246.5 Bedding @	45 45			
					241.0-242.7: -50% sulphides, 242.7-243.3: -1-2% sulphides, 243.3-244.5 -63% sulphides, 244.5-245.1 -1-2% sulphides 245.1-245.7 -87% sulphides, 245.7-246.3 -5-7% sulphides, 246.3-247.0 -44% sulphides,	
		247.0-248.4 -locally 7-10% 1 mm blebby calcareous barite with py cores within sulphide laminations		247.0-252.0 -strongly silicified.	247.0-252.0 25-30% laminar bedded sulfides predominantly pyrite as 3-5 cm thick beds concentrated within 10-20 cm thick zones.	247.0-252.0 -25-305 laminar bedded sulphides predominantly pyrite as 3-5 cm thick beds concentrated in 10-20 thick zones
		248.4-250.1 -graphitic distorted ribbon cherts, bedded blebby barite qtz-calcite veining and distorted laminar py				
		251.4-252.0 -15-20% round 2-3 mm barite blebs within pyrite beds				
		252.1 Bedding @	45			

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
252.00 TO 253.30	SILICIFIED SHALE «SIL SH»	Black, massive, f.gr. silicified shale 10 cm silty fragments in last 15 cm of interval sharp lower contact @	 45	Strongly silicified	1-3% finely disseminated pyrite	
253.30 TO 296.00	CALCAREOUS SILTSTONE «CALC SLTST »	Medium-dark grey streaky siltstone composed of highly calcareous lighter grey layers/beds and darker grey less calcareous layers/beds; strong streaky thinly layered/thinly bedded appearance		Weakly silicified	253.3-260.4 -3-5% very finely disseminated py -locally 7% py as discontinous wisps parallel to layering	
	E.O.H.	259.0 Layering/bedding? @ 273.2 layering/bedding @	60 60		269.6-286.7 -3-4% diss py, locally 7-8% wispy layered py within dark grey to black non calcareous siltstone	

Sample	From (m)	To (m)	Length (m)	ASSAYS Zn %	Pb %	Ag g/t	Ba %	Cd %	S %	GEOCHEMICAL Zn ppm	Pb ppm	Ag ppm	Ba ppm	Cd ppm	Cu ppm	S.G.	COMMENTS
33560	179.50	179.80	0.30	0	0	5.2	3.46			33	52	5.2		1.7	63		
33561	183.70	184.90	1.20	0	0	2.6	2.68			62	34	2.6		.6	46		
33562	184.90	186.10	1.20	0.05	0	3.0	2.37			532	27	3.0		5.7	42		
33563	186.10	187.30	1.20	0.07	0	2.9	3.35			706	31	2.9		7.3	47		
33564	215.70	217.20	1.50	.38	.05	1.2	.65	.003								2.50	
33565	217.20	218.60	1.40	1.95	.22	3.9	3.42	.011								2.71	
33566	218.60	219.90	1.30	1.76	.19	4.0	4.03	.010								2.71	
33567	219.90	221.00	1.10	1.24	.12	3.1	3.00	.007								2.63	
33568	221.00	221.80	0.80	1.59	.15	5.0	4.17	.009								2.91	
33569	221.80	223.50	1.70	.68	.06	1.9	1.22	.004								2.64	
33570	223.50	224.40	0.90	1.20	.15	5.8	3.07	.007								2.95	
33571	224.40	226.10	1.70	.26	.03	.8	1.12	.002	1.67						27	2.59	
33572	226.10	227.70	1.60	1.29	.19	5.4	3.06	.007								2.91	
33573	227.70	229.30	1.60	1.21	.18	3.9	2.94	.006								2.81	
33574	229.30	230.60	1.30	1.26	.17	3.3	2.00	.007								2.75	
33575	230.60	232.00	1.40	1.14	.22	5.5	1.57	.006								2.96	
33576	232.00	233.00	1.00	.15	.04	.9	1.47	.001								2.65	
33577	233.00	234.30	1.30	.90	.18	5.3	2.37	.005								2.88	
33578	234.30	236.70	2.40	.62	.10	2.8	2.51	.003								2.70	
33579	236.70	237.10	0.40	1.94	.27	8.5	3.99	.010								3.27	
33580	237.10	238.30	1.20	.21	.08	1.2	2.39	.002								2.68	
33581	238.30	239.30	1.00	3.89	.54	8.6	2.94	.022								3.09	
33582	239.30	241.00	1.70	.25	.11	1.3	1.91	.002								2.62	
33583	241.00	242.70	1.70	4.46	.68	7.9	4.71	.023								3.08	
33584	242.70	243.30	0.60	.38	.15	1.7	2.05	.003								2.57	
33585	243.30	244.50	1.20	4.99	.83	8.6	5.58	.025								3.15	
33586	244.50	245.10	0.60	.21	.10	1.5	3.56	.002								2.67	
33587	245.10	245.70	0.60	7.76	1.19	14.1	4.98	.041								3.47	
33588	245.70	246.30	0.60	.71	.40	1.3	1.77	.004								2.56	
33589	246.30	247.00	0.70	2.89	.48	7.1	2.66	.016								3.03	
33590	247.00	248.40	1.40	.86	.09	3.8	1.78	.005								2.79	
33591	248.40	250.10	1.70	.69	.14	5.1	4.59	.006									
33592	250.10	251.40	1.30	.10	.12	5.5	4.29	.001									
33593	251.40	252.00	0.60	.01	.13	6.3	5.69	.001									
33594	252.00	253.30	1.30	.33	.01	1.4	3.28	.004									
33595	253.30	254.80	1.50	0.14	0.01	1.3	>1.0			1435	78	1.3	>10000	10.8	19		
AVE.	236.70	247.00	10.30	2.56	0.44	5.39	3.36	0.01									

Sample	From (m)	To (m)	Length (m)	ASSAYS Zn %	Pb %	Ag g/t	Ba %	Cd %	S %	GEOCHEMICAL Zn ppm	Pb ppm	Ag ppm	Ba ppm	Cd ppm	Cu ppm	S.G.	COMMENTS
ALT.AVG.	238.30	247.00	8.70	2.91	0.50	5.83	3.47	0.02									

Total amount of samples= 36
Total length sampled = 43.0M

HOLE NUMBER: A-94-05

MINNOVA INC.
DRILL HOLE RECORD

DATE: 22-March-1995
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GATAGA
PROJECT NUMBER: 677
CLAIM NUMBER: AKIE 7
LOCATION:

PLOTTING COORDS GRID: AKIE
NORTH: 3400.00S
EAST: 110.00E
ELEV: 1375.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -65° 0' 0"
LENGTH OF THE HOLE: 230.70m
START DEPTH: 0.00m
FINAL DEPTH: 230.70m

COLLAR GRID AZIMUTH : 90° 0' 0"

COLLAR ASTRO. AZIMUTH : 50° 0' 0"

DATE STARTED: August 5, 1994
DATE COMPLETED: August 8, 1994
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
CAPPED: NO
HOLE SIZE: NQ

CONTRACTOR: BRITTON BROS. DRILLING
CASING: 14.6 M
CORE STORAGE: ON SITE

PURPOSE: TEST CARDIAC CREEK MS DISCOVERY 300 M GRID NORTH

COMMENTS :

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
61.00	-	-64° 0'	ACID	OK	
121.90	-	-63° 0'	ACID		TOO FAINT
182.90	-	-61° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 17.70	OVERBURDEN					Bedrock at 17.7 m; hole cased only to 14.6 m
17.70 TO 89.40	SILICIFIED SHALE «SIL SH»	Black, f.gr. shale, weak to moderately foliated. Rare bedding indicators of py-barite beds and lighter grey strongly calcareous silty? beds. Occasional round calcareous nodules 23.5 Foliation @ 37.3 Foliation @ 36.5 Bedding @ 41.8 Foliation @ 49.5 Bedding @ 51.2-57.0 -locally graphitic 63.0 Foliation @ 73.8 Foliation @ 58.8-84.4 -finely speckled with white calcite over 50 cm 82.5 Foliation @ 84.8-87.3 -10-20 cm zones of graphitic chert	 35 30 35 20 50 30 27 25	Weakly silicified with increasing silicification downhole Below 33 m weak fine calcite veinlets 41.8 -increasing silicification	2-3% diss py Rare 3-6 cm zones of laminar py and blebby barite	
89.40 TO 132.30	SILICIFIED PYRITIC SHALE «SIL PY SH»	Black, massive shale, weakly foliated. Bedding defined by 5-20 cm zones of laminar bedded pyrite with calcareous layers and calcareous, baritic? blebby nodules with pyrite rims and cores Occasional zones of speckled white calcite 89.7 Foliation @ 94.1 Bedding @ -0.7 m chert overlain by 20 cm of interbedded laminar py and blebby barite 95.4 Foliation @ 100.8 Bedding @ 45-50 deg -grading indicates tops uphole Foliation @	 10 60 0 20	Moderate to strongly silicified	{89.4-132.3} «5-7% lam py» -5-7% laminar pyrite within 5-10 cm zones interlaminated with calcareous blebby barite -1-3% diss py within shales	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		102.0 Bedding @ 103.0 Foliation @ 109.2 Bedding @ 121.3 Bedding @ 126.4 Foliation @ 127.2-128.3 Fault Zone -intensely silicified, graphitic, quartz veined. faulting at 30-40 deg. 131.1-132.3 Fault. -lower contact marked by highly graphitic silicified cherty quartz veined interval	55 20 55 53 40	-abundant quartz and minor calcite veining	116.0-127.2 «10% Lam Py» -10-12% laminar bedded pyrite and blebby calcareous barite	
132.30 TO 161.10	INTERBEDDED SHALE AND LAMINAR PY-SP «SH-PY-SP»	Interbedded black strongly silicified shale with 10 cm - 30 cm zones of very fine grained finely interlaminated pyrite and sphalerite; sulphide zones occasionally distorted by round, dark grey septarian nodules. Minor 1-2 mm blebby barite within shale beds with some pyrite laminations		Strongly silicified. Light grey sph laminations, weak to mod. calcareous	132.3-146.6 -14.3 m of 40% laminar bedded interlaminated very fine grained pyrite sphalerite. Host shale beds sulphide poor, 1-2% diss py 146.6-150.7 7-8% very finely disseminated pyrite throughout.	132.3-133 -15% sulf., 133.4-134.9 -30% sulf., 134.9-136.2 -50% sulf., 136.2-137.5 -43% sulf., 137.5-138.8 -35% sulf., 138.8-140.0 -48% sulf., 140.0-141.4 -46% sulf., 141.4-142.7 -45% sulf., 142.7-143.9 -56% sulf., 143.9-145.4 -26% sulf., 145.4-146.6 -25% sulf,
		152.4 Bedding @ 154.3 Foliations @ 20-30 deg	50	-weak calcite x-cutting veinlets parallel to foliation	150.7-154.2 -50% very fine grained laminar bedded sulphdes, mainly pyrite; includes 153.5-154.2 75% laminar pyrite	
		154.6-155.2 -intensely silicified and cherty interval minor py laminations; interval brecciated, sulphides distorted. Is this faulting or brittle deformation within softer sediment pile		154.6-155.2 -weak calcite veining	154.2-158.0 -3-5% finely diss. py	
		158.0-161.1 -interbedded black silicified shale with 5-20 cm zones of laminated pyrite and light grey calcareous baritic? laminations; minor blebby barite siltstone fragments in last 20 cm			158.0-161.1 -7-85 pyrite as finely laminated zones interlaminated with calcareous sediments -host shale 5-7% very fine diss py	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
161.10 TO 161.50	BEDDED BARITE «Bd BARITE»	Light grey finely crystalline. Bedding defined by pyrite and shale laminations. Minor calcareous nodules. Increasing limestone content in last 10 cm			5% wispy pyrite laminations	
161.50 TO 163.00	LIMESTONE «LST»	Two different types of limestone 161.5-162.6. Light mottled grey fine to medium grained massive limestone 162.6-163.0 -fossiliferous limestone; 7-10% <0.5 cm frags of coral, crinoids and brachiopods within light grey micrite mud			162.9 -possible fine sphalerite veinlets 5-7% pyrite/10 cm	
163.00 TO 230.70	CALCAREOUS SILTSTONE, SILTY LIMESTONE «CALC SLTST» E.O.H.	Streaky light and dark grey laminations/layers of dark grey calcareous siltstone and light grey high calcareous siltstone or silty limestone 163.0-163.9 -very fine grained light grey silty mud 163.9-176.9 -very calcareous/limey zone including darker grey silty layers Below 179.9 -dark grey to black layers weak to noncalcareous, thin-medium layered/bedded appearance of streaky light and dark grey bands; light grey bands still highly calcareous Bedding/Layering measurements 171.0 @ 187.9 @ 207.8 @	 65 60 60		-3-5% diss py 185.4-201.4 -3-5% diss & streaky-wispy py mainly within dark grey weak to non-calcareous zones	

Sample	From (m)	To (m)	Length (m)	ASSAYS Zn %	Pb %	Ag g/t	Ba %	Cd %	S %	GEOCHEMICAL Zn ppm	Pb ppm	Ag ppm	Ba ppm	Cd ppm	Cu ppm	S.G.	COMMENTS
33621	116.00	117.30	1.30	0.10	0	3.1	2.98			991	32	3.1		10.3	37		
33622	117.30	117.70	0.40	0	0	8.0	2.95			42	63	8.0		.8	62		
33623	117.70	119.50	1.80	0	0	3.8	3.08			27	37	3.8		.3	36		
33596	131.10	132.30	1.20	.14	.01	1.0	2.36	.001							40		
33597	132.30	133.40	1.10	2.20	.27	3.3	4.01	.011							50	2.80	
33598	133.40	134.90	1.50	2.39	.38	4.1	2.04	.012							50	2.86	
33599	134.90	136.20	1.30	4.81	.77	6.0	4.45	.023							40	3.00	
33600	136.20	137.50	1.30	2.57	.49	3.8	4.33	.012							30	2.91	
33603	137.50	138.80	1.30	3.02	.58	4.8	4.45	.015							30	2.89	
33604	138.80	140.00	1.20	4.05	.62	5.6	5.27	.020							40	2.99	
33605	140.00	141.10	1.10	4.12	.69	5.4	4.87	.021							40	2.97	
33606	141.10	142.70	1.60	3.31	.61	5.2	5.18	.016							40	2.93	
33607	142.70	143.90	1.20	5.72	.97	7.2	5.23	.029							50	3.02	
33608	143.90	145.40	1.50	3.55	.73	5.1	4.74	.023							50	2.90	
33609	145.40	146.60	1.20	.82	.13	3.1	2.64	.007							50	2.83	
33610	146.60	148.60	2.00	.05	.04	.9	1.77	.001							10	2.69	
33611	148.60	150.70	2.10	.09	.04	1.3	1.14	.001							10	2.61	
33612	150.70	152.10	1.40	.87	.17	6.0	3.33	.006							70	2.91	
33613	152.10	153.50	1.40	.43	.15	6.2	2.65	.004							50	2.77	
33614	153.50	154.20	0.70	1.15	.26	9.9	8.08	.014							100	3.09	
33615	154.20	156.10	1.90	0.15	0.02	1.2	4.05	.002		1475	225	1.2		17.2	20	2.54	
33616	156.10	158.00	1.90	0.11	0.01	1.1	2.74			1115	126	1.1		5.1	14	2.51	
33617	158.00	159.60	1.60	.40	.06	2.0	.11	.002							40	2.71	
33618	159.60	161.10	1.50	1.18	.61	2.3	15.60	.012							30	2.95	
33619	161.10	161.50	0.40	.36	.01	1.8	37.90	.004							20	3.56	
33620	161.50	163.00	1.50	0.12	0.01	4.8	20.00			1210	79	4.8		9.5	7		
34914	163.00	164.50	1.50	.13	.02	1.1	2.38	.001									
AVE.	132.30	145.40	13.10	3.54	0.61	5.04	4.43	0.02							42.06		
ALT.AVG.	132.30	146.60	14.30	3.31	0.57	4.88	4.28	0.02							42.73		

Total amount of samples= 27
Total length sampled = 36.9M

HOLE NUMBER: A-94-06

MINNOVA INC.
DRILL HOLE RECORD

DATE: 22-March-1995
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GATAGA
PROJECT NUMBER: 67780
CLAIM NUMBER: AKIE 7
LOCATION:

PLOTTING COORDS GRID: AKIE
NORTH: 4200.00S
EAST: 80.00W
ELEV: 1320.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -57° 0' 0"
LENGTH OF THE HOLE: 540.70m
START DEPTH: 0.00m
FINAL DEPTH: 540.70m

COLLAR GRID AZIMUTH : 90° 0' 0"

COLLAR ASTRO. AZIMUTH : 50° 0' 0"

DATE STARTED: August 9, 1994
DATE COMPLETED: August 19, 1994
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
CAPPED: NO
HOLE SIZE: NQ

CONTRACTOR: BRITTON BROS.
CASING: 8.8 M
CORE STORAGE: ON SITE

PURPOSE: TEST COINCIDENTAL 7 ELEMENT SOIL ANOMALY AS WELL AS A 400 M STEPOUT S. OF MS INTERSECTED ON L38S

COMMENTS :

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
61.00	-	-56° 0'	ACID	OK	
121.90	-	-56° 0'	ACID	OK	
182.90	-	-56° 0'	ACID	OK	
243.80	-	-56° 0'	ACID	OK	
304.80	-	-56° 0'	ACID	OK	
365.80	-	-55° 0'	ACID	OK	
426.70	-	-55° 0'	ACID	OK	
487.70	-	-54° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 8.80	CASING					
8.80 TO 25.40	SILICIFIED PYRITIC BARITIC FOSSILIFEROUS SHALE «SIL BA SH»	Black, f.gr. strong to intensely silicified black shale with 10-30%, 1-2 mm rounded to lath shaped siliceous baritic nodules. Barite nodules dissem. to aligned defining foliation to concentrated into cm scale beds; some nodules/laths may possibly be fossil fragments -strongly graphitic 18.7 -very sudden change: nodules becoming moderately calcareous, limestone with 2-3% possible fossil fragments -however not all nodules and laths are calcareous probable mix of baritic nodules and fossil frags -fairly common large grey calcareous nodules -variable bedding measurments as defined by pyrite laminations; nodules and laths are drawn into foliation and are misleading in defining bedding 10.7 Bedding @ 12.6 Bedding @ 18.4 Foliation @ 21.7 Bedding @ 22.9 Bedding @ Foliation @ 23.3 Knife sharp fault @	 50 20 50 50 75 30 40	Strong - intensely silicified 10.5-14.6 -moderate white qtz veins averaging 3-4 cm thick	10% ultra fine pyrite, finely disseminated and as faint narrow laminations	
25.40 TO 308.40	SILICIFIED SHALES «SIL SH»	Black, massive strongly silicified to locally cherty ultrafine shale; occasional lighter grey calcareous silty beds <1 cm; moderately graphitic 26.2 -5 cm breccia bed, up to 0.5 cm light grey siliceous fragments, minor calcareous & pyritic		Strongly silicified	Overall <1-2% diss py; locally 10% ultra fine diss. pyrite over 10-20 cm widths. Occasional <0.5 cm ultrafine laminations of pyrite {25.4-41.5} «SP VNS» -<1-1% fine straw yellow sphalerite veinlets; rare 1 cm beds with 10-15% diss. sp	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		fragments			30.0 -1 cm of 15% diss. brick red sphalerite within a siliceous host	Similar style of Sp as seen on the PIE claims within the Lst.
		35.3 Bedding @	65		37.0 -4 cm light grey bed with 15-20% diss. yellow sphalerite	
		45.9-60.3 -increasing occurrence of light grey calcareous beds <1-1 cm thick			45.9-79.6 -increasing pyrite content 3-5% diss. pyrite common 2-4 cm zones of 10-20% blebby pyrite possibly with barite	
		47.4 Bedding @ 53.8 Bedding @	60 55			
		56.2-60.3 -5-7%, 1-3 cm fragments of laminar Limestone, massive Lst and graphitic Lst, 1-2% pyritic fragments with up to 50-60% diss. pyrite				
		60.6 -1-2% very finely disseminated fine barite mixed with disseminated pyrite				
		64.7 Foliation @	50		74.2-76.0 -rare <0.5 cm wide sphalerite or siderite? veinlets	
		77.8-78.3 -up to 5% Limestone, siltstone and pyrite rich fragments				
		79.5 Foliation @	55		79.5-81.7 -patchy 3-5% <1 mm diss py with barite?	
				81.7-111.9 -strongly silicified shale	81.7-111.9 -laminar pyrite approx. 10% ultrafine grained dark pyrite occurring in dark very difficult to see laminations -Pyrite content is low at top of interval increasing downhole and peaking around 90-95 m, then decreasing	
		90.0 Bedding @ 98.7 Bedding @ 100.4 Bedding @ 105.5 Bedding @	60 60 35 55			
		112.2-114.9			111.7 -straw brown sphalerite veinlet	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-<7% limestone fragments, 1-2% pyrite frags			114.9-166.6 -<1-1% diss. pyrite, rare pyrite laminations to define bedding	
		122.9 Bedding @	40	Seems less silicified and locally more graphitic		
		127.7 Bedding @	30			
		130.7 Bedding @	65			
		Foliation fairly constant @ 50-60 deg				
		141.2 Bedding @	55			
		144.2 Bedding @	30			
		Foliation @	50			
		151.4 Foliation @	45			
		157.0 Bedding @	35			
		157.5 Foliation @	45			
					159.2 - 1cm calcite gash fillings with 3-5% red diss. sphalerite	
		165.0 -increasing occurrence of 1 cm lighter grey calcareous layers			166.6-184.8 -2-3% pyrite as very fine laminations <0.5 cm	
		166.6 Bedding @	40			
		174.5 Bedding @	43			
		Foliation @	50			
		182.2 Bedding @	50			
		188.8-189.9, 191.9-193.0 & 197.7-200.0 -zones of coarse diss. pyrite (up to 5-7%) with white calcite/silica halos, pyrite rich fragments or diagenetic pyrite within siliceous and calcareous hosts, <5% limestone fragments				
		195.2 Foliation @	55	-weakly silicified	200.0-214.8 -7-8% very finely disseminated pyrite throughout	
		219.5 Bedding @ 60-65 deg TCA		-weakly silicified	214.8-221.7 -occasional mm scale pyrite laminations host shale 1-3% diss. py	
		╟221.7-222.5╢ «FLT? CHT» -fault zone?, chert -graphitic, fairly massive; abundant quartz veining (remobilized silica?)				

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		222.8 Bedding @ 224.5 Bedding @	55 63		222.5-232.1 -rare mm scale py laminations defining bedding	
		231.0 Bedding @ 60-65 deg TCA			239.9	
				232.1-253.2 -common 1-2 mm wide calcite-silica veinlets parallel to foliation containing brassy pyrite blebs, very weak silicification; calcite veinlets less common below 253.2	-silica veinlets with red diss. sp	
					245.7-273.3 -traces of red and honey brown sphalerite within calcite quartz veinlets	
		247.9 Foliation @ 248.7 Foliation @	50 40			
		248.1-248.4 -possible fault? -strongly graphitic, common brecciated and contorted calcite-qtz veins; noticeable change in foliation across interval				
		254.5 Bedding @	25			
				253.2-294.4 -weak calcite and quartz as fine veinlets, wormy, x-cutting and parallel to foliation. Veining decreasing below 294.4 m		
		260.7 Bedding @ 265.0 Foliation @	25 40			
					262.2-268.8 -<1-1% red and honey sphalerite with thin calcite-qtz veinlets	
		265.2-268.8 -massive, medium to dark grey chert				
		280.4-285.2 -laminar pyrite mixed with silicified shale interbeds 5-7% possible barite intergrown with coarse brassy py; rare nodular blebby barite laminations; bedding consistent at 60-65 deg TCA		-intensely silicified	[280.4-285.2] «30% Lam Py» -30% finely laminar pyrite; trace sphalerite within qtz-calcite veinlets 5-7% coarser brassy diss py intergrown possibly with barite	
		286.5		Below 286.5	Below 285.2 -2-3% finely diss. pyrite, local	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-10 cm with fossiliferous limestone fragments		-strongly silicified	coarse diss. py	
		291.0 Foliation @	55			
		297.3-298.5 -rare limestone fragments, downhole limestone increases to coarse granular cm scale limestone sand beds interbedded with black shales -bedding possibly @	55			
308.40 TO 378.60	SILICIFIED PYRITIC BARITIC SHALE «SIL PY-BA SH»	Interbedded black, silicified pyritic shale with thin beds of laminar bedded pyrite; possible fine disseminated barite mixed with calcite/silica as host to coarser grained pyrite Occasional highly calcareous laminations inter-bedded with sulphides and shale -sulphide beds disrupted by rare septarian nodules		Strongly silicified, weak calcite as fine veinlets	20-25% fine grained laminar pyrite in 2 cm-10 cm beds and up to 20-30 cm thick intervals; 5-7% coarser grained pyrite associated with white dissem. calcite/silica/barite? flecks <1 mm and within 1-2 mm bands 5-7% finely disseminated pyrite in silicified shale beds	
		311.8 Bedding @ 317.4 Bedding @ 328.5 Bedding @	45 50 45			
		Sulphide beds show variable angles to the core axis as a result of folding or soft sediment slumping; most consistent bedding angles are around 45-50 deg but do drop as low as 35 deg fairly commonly				
		Black shale beds fairly massive Possible foliation @	45			
		Below 356.6 bedding angles fairly consistent @	35			
		374.3-374.9 -zone of highly contorted beds of laminar py and nodular calcareous barite; soft sediment slumping? or parasitic folding?				
378.60 TO 417.30	SILICIFIED PYRITIC SHALE «SIL PY SH»	Black, f.gr., massive to weakly foliated silic-ified shale; fairly common 1-2 cm black round septarian nodules decreasing below 392.7		Strongly silicified, patchy weak calcite as fine veinlets	7-10% very finely disseminated pyrite throughout	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		379.1 -4 cm coarse grained limestone sand, possibly fossiliferous; minor siltstone fragments				
417.30 TO 439.20	GRAPHITIC SILICIFIED SHALE & CHERT OR POSSIBLE FAULT ZONE «GRAF SIL, SH, FLT»	Black, f.gr., abundant very thin graphitic partings generally @ 50-55 deg TCA; no apparent bedding Intensely silicified to chert shale mixed with chert; chert beds tend to have more abundant silica veining and strong brecciated appearance 429.0-429.4 -30% <1-2 cm limestone fragments mainly at base of interval 438.7- -5 cm laminar pyrite bed - bedding @	 65	Intense silicification or chert, weak to moderate and patchy strong silica-calcite and narrow veinlets <0.5 cm; veining locally causing brecciation 438.5-439.2 -strong silica-calcite veining	2% finely disseminated pyrite; 1-2% pyrite within calcite-silica veinlets 421.0-423.7 -<1% light reddish yellow sphalerite within silica veinlets in chert bed	
439.20 TO 469.10	SILICIFIED LAMINAR PYRITIC SHALE «SIL LAM PY SH»	Black, f.gr., massive to weakly foliated shale; bedding defined by beds of laminar bedded pyrite; bedding fairly consistent at 70-75 deg TCA Sulphide layers patchy weak-moderately calcareous Occasional cm scale round calcareous nodules 420.1 Foliation @ Occasional 1-2 cm round calcareous pyritic nodules 468.2-469.1 -5-7% calcareous, pyritic baritic? nodules within mm layers interlaminated with pyrite layers	 20 	Very minor calcite as 2-3 mm veinlets	20% pyrite as 30-60 cm zones of laminar bedded pyrite; silicified shale beds, sulphide poor, 1-2% finely disseminated pyrite Zones of concentrated suphides as follows: 446.4-447.5 454.4-458.0 461.0-464.6	
469.10 TO 520.20	SILICIFIED SHALE «SIL SH»	Black, f.gr. massive to weakly foliated silicified gunsteel shale 470.0 Foliation @ 470.6-471.3 -chert, dark grey, massive becoming graphitic calcite-qtz veined and brecciated in last 20 cm	 20 	Strongly silicified, minor calcite-qtz veinlets	7-8% finely disseminated pyrite throughout 471.1-471.3 -traces of light yellow red sphalerite	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		484.0 Foliation @ 488.5-489.0 -abundant 1-2 cm black septarian nodules 520.0 «FLT» -20 cm creamy light grey, intensely siliceous, graphitic milled appearance -faulting @ 50-55 deg TCA	30	Last 1.5 m of shales is weakly silicified	in qtz-calcite veins	Does this represent the stratigraphic equivalent of massive sulphides on Line 38S?
520.20 TO 540.40	CALCAREOUS SILTSTONE «CALC SLTST » E.O.H.	Predominantly dark grey, mod-str calcareous siltstone with light grey highly calcareous/limy siltstone or silty limestone streaks and interbeds Layering/streaking @ 55-60 deg TCA				

Sample	From (m)	To (m)	Length (m)	ASSAYS Zn %	Pb %	Ag g/t	Ba %	Cd %	S %	GEOCHEMICAL Zn ppm	Pb ppm	Ag ppm	Ba ppm	Cd ppm	Cu ppm	S.G.	COMMENTS
33624	280.40	282.00	1.60	0.06	0.003	1.2	1.47			591	34	1.2		.9	32		
33625	282.00	283.60	1.60	0.28	0.01	1.5	3.28			2840	68	1.5		3.1	30		
33626	283.60	285.20	1.60	0.25	0.01	1.5	2.99			2450	72	1.5		2.8	33		
33627	321.90	323.90	2.00	0.00	0.00	1.5	1.95			27	26	1.5		.2	33		
33628	323.90	325.80	1.90	0.00	0.00	1.2	2.30			29	24	1.2		.2	32		
33629	338.80	339.40	0.60	0.00	0.00	2.0	1.67			33	45	2.0		.1	57		
33630	342.80	344.80	2.00	0.00	0.00	1.4	2.39			32	25	1.4		.2	33		
33631	344.80	346.90	2.10	0	0	1.4	2.32			33	24	1.4		.1	34		
33632	346.90	348.10	1.20	0	0	1.9	1.93			58	35	1.9		.1	55		
33633	373.70	375.20	1.50	0	0	2.3	1.95			52	29	2.3		.1	56		
33646	417.30	419.10	1.80	0.91	0	0.7	0.66			910	11	.7		7.8	26		
33647	419.10	421.00	1.90	0.04	0	0.5	0.56			397	8	.5		3.6	16		
33648	421.00	422.80	1.80	0.28	0	0.3	0.39			2780	4	.3		22.5	10		
33649	422.80	423.70	0.90	0.19	0	0.3	0.42			1875	4	.3		15.1	15		
33650	423.70	425.30	1.60	0.06	0	0.4	0.70			644	6	.4		6.0	20		
33634	443.50	443.90	0.40	0	0	3.8	0.37			24	50	3.8		.1	94		
33635	446.40	447.50	1.10	0	0	3.1	0.58			16	42	3.1		.1	86		
33636	454.40	455.40	1.00	0	0	2.2	0.55			15	28	2.2		.5	62		
33637	455.40	456.40	1.00	0	0	2.6	0.41			14	31	2.6		.2	72		
33638	456.40	456.80	0.40	0	0	0.9	0.59			9	10	.9		.4	21		
33639	456.80	458.00	1.20	0	0	1.8	0.42			14	33	1.8		.1	63		
33640	458.00	459.50	1.50	0.06	0	1.2	0.59			557	18	1.2		5.4	41		
33641	459.50	461.00	1.50	0.16	0	0.8	0.68			1640	15	.8		15.7	39		
33642	461.00	461.70	0.70	0	0	1.7	0.47			39	32	1.7		.1	52		
33643	461.70	462.90	1.20	0.06	0	1.1	0.51			561	17	1.1		5.3	31		
33644	462.90	464.60	1.70	0	0	1.4	0.53			18	34	1.4		.2	54		
33645	468.20	469.10	0.90	0.02	0	1.0	1.66			213	30	1.0		1.7	48		

Total amount of samples= 27
Total length sampled = 36.7M

HOLE NUMBER: A-94-07

MINNOVA INC.
DRILL HOLE RECORD

DATE: 22-March-1995
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GATAGA
PROJECT NUMBER: 677
CLAIM NUMBER: AKIE 7
LOCATION:

PLOTTING COORDS GRID: AKIE
NORTH: 3400.00S
EAST: 110.00E
ELEV: 1375.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -87° 0' 0"
LENGTH OF THE HOLE: 272.80m
START DEPTH: 0.00m
FINAL DEPTH: 272.80m

COLLAR GRID AZIMUTH : 90° 0' 0"

COLLAR ASTRO. AZIMUTH : 50° 0' 0"

DATE STARTED: August 20, 1994
DATE COMPLETED: 0, 0
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
CAPPED: NO
HOLE SIZE: NQ

CONTRACTOR: BRITTON BROS. DRILLING
CASING: 12.2 M
CORE STORAGE: ON SITE

PURPOSE: TEST DOWNDIP OF A-94-5

COMMENTS :

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
61.00	-	-82° 0'	ACID	OK	
122.00	-	-79° 0'	ACID	OK	
183.00	-	-78° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
174.00 TO 189.80	SILICEOUS SHALE «SIL SH»	graphitic along foliation planes.			<5% py.	
189.80 TO 232.10	LAMINATED MASSIVE SULPHIDES & SHALE «MS-SH»	Interbedded py, sp +/- Ba laminations & slightly silicified shale; often blebby Ba in laminations which are also slightly calcareous; occasional calcareous nodules; shale contains <5% diss py Variable bedding angles from 0-30 deg TCA		Late x-cutting qtz and qtz-calcite veining	189.8-193.9 -80% laminated py-sp 193.9-197.8 -5% finely disseminated pyrite within weakly silicified massive shale 197.8-214.4 -65-70% interlaminated py-sp and interbeds of shale 214.4-214.7 -5-6% finely disseminated py 216.7-220.3 -75% laminated py + sp 220.3-223.5 -3-5% diss pyrite 223.5-229.4 -45-50% laminated py-sp 229.4-229.9 -massive sulphides 85-90% bedded sp-py with 10-15% interstitial translucent barite 229.9-232.1 45-50% laminated py-sp-ba in 10-30 cm thick zones. Laminations tend to be either solely py or a mix of ba-sp-py with granular sp and py in a baritic host.	Sample widths were determined by lithology first, and core angles second when the core angles changed (usually fairly abruptly, this predicated the end of the sample
232.10 TO 236.70	INTERBEDDED BARITE & SHALE «BDD BA-SH»	Interbedded mix of black, massive, weakly silicified shale and creamy grey bedded fine grained barite 30% shale intervals 50-60 cm thick; bedding		Weakly silicified shales; shales often cut by quartz and quartz-calcite veinlets	Shale intervals <1-2%, fine diss. py 5-10% py-sp laminations 233.1	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		within barite zones defined by shale partings and py and sp laminations Bedding @	 30		-massive sp-gn laminations over 1 cm within barite. 233.5 -20 cm 3-5% finely disseminated galena 240.6- -20 cm up to 10% very finely disseminated galena	
236.70 TO 243.50	BEDDED BARITE «BDD BA»	Thinly bedded creamy grey f.gr. barite with common <1 cm black shale laminations; occasional calcite nodules foliation @... bedding @...	 05 50			
243.50 TO 253.00	LIMESTONE SHALE SILTSTONE BRECCIA «LST-SH-SLT BX»	Cemented breccia containing limestone, shale, calcareous siltstone and possibly barite fragments often graphitic foliation planes; pyrite occurs as disseminations, stringers and as rounded to angular fragments; minor (20 cm) fault gouge (?) at contact 243.5-246.0 -fragments within a shale matrix, matrix supported 246.0-248.3 -fossiliferous clastic limestone with black shale fragments 15-20% 248.3-253.0 -clastic fragments more abundant in a black shale matrix			<1-1% py 249.2 -30 cm, 5-7% py diss, interfragmental	
253.00 TO 272.80 E.O.H.	CALCAREOUS SILTSTONE «CAL SLTST»	Layered mix of med-dark grey strongly calcareous siltstone with light creamy grey silty limestone {253.0-255.6} «SLT BX» -layering disrupted, creamy silty Lst fragments in calcareous siltstone matrix; local calcareous siltstone fragments in a black shale matrix			{253.0-257.6} «7-8% py» -7-8% pyrite disseminated and wispy 2-4 mm streaks	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		257.6-258.5 -fossiliferous limestone -crinoidal, coral and shell debris generally <0.5 cm in size and averaging 2-3 mm 263.1 Layering/Bedding @ 269.5 Layering/Bedding @ 269.5-272.8 -layering/bedding disrupted and fragmented	 40 20	-strong qtz-calcite veining	Below 258.5 -1-2% diss. py	

Sample	From (m)	To (m)	Length (m)	ASSAYS Zn %	Pb %	Ag g/t	Ba %	Cd %	S %	GEOCHEMICAL Zn ppm	Pb ppm	Ag ppm	Ba ppm	Cd ppm	Cu ppm	S.G.	COMMENTS
33651	140.80	141.40	0.60	0.002	0.004	6.0	3.75			16	37	6.0		.5	59		
33652	142.90	143.60	0.70	0.001	0.003	4.5	4.16			13	32	4.5		.2	53		
33653	143.60	144.80	1.20	0.05	0.001	1.0	2.09			468	6	1.0		4.4	18		
33654	146.20	146.90	0.70	0.002	0.005	4.3	3.08			20	47	4.3		.2	67		
33655	149.20	149.70	0.50	0.002	0.005	5.1	3.36			21	49	5.1		.8	70		
33656	151.70	152.00	0.30	0.03	0.005	4.2	2.57			324	50	4.2		3.6	91		
33657	153.60	154.50	0.90	0.12	0.003	4.0	2.34			1160	34	4.0		14.3	85		
33658	186.80	189.80	3.00	.33	.05	1.3	.88	.001							20	2.51	
33659	189.80	191.00	1.20	6.05	1.00	10.2	5.86	.029							80	2.95	
33660	191.00	192.40	1.40	6.52	.95	10.3	8.27	.032							80	3.02	
33661	192.40	193.90	1.50	5.21	.77	8.0	6.10	.027							70	2.95	
33662	193.90	195.90	2.00	.38	.10	1.4	1.39	.001							20	2.67	
33663	195.90	197.80	1.90	.87	.15	2.0	2.06	.002							20	2.71	
33664	197.80	199.40	1.60	6.94	1.12	9.9	6.86	.035							70	2.98	
33665	199.40	201.70	2.30	4.03	.67	6.2	6.59	.021							50	2.80	
33666	201.70	204.10	2.40	4.15	.66	6.7	6.78	.020							50	2.85	
33667	204.10	205.40	1.30	5.42	.66	8.1	6.69	.027							60	2.99	
33668	205.40	207.20	1.80	5.19	.87	9.0	6.48	.026							50	2.87	
33669	207.20	209.00	1.80	3.32	.80	4.8	5.22	.018							30	2.69	
33670	209.00	210.80	1.80	6.40	1.30	10.2	6.75	.032							50	2.94	
33671	210.80	212.60	1.80	6.07	1.16	8.3	6.81	.029							40	2.90	
33672	212.60	214.40	1.80	7.35	1.26	10.7	7.19	.036							50	2.98	
33673	214.40	216.70	2.30	.52	.12	1.6	2.71	.002							10	2.68	
33674	216.70	218.50	1.80	8.41	1.54	12.5	6.20	.044							70	3.01	
33675	218.50	220.30	1.80	7.39	1.41	14.2	7.14	.036							70	3.06	
33676	220.30	221.90	1.60	.35	.08	1.7	3.62	.002							10	2.68	
33677	221.90	223.50	1.60	.38	.09	1.6	2.73	.001							20	2.62	
33678	223.50	225.00	1.50	8.60	1.75	13.1	7.87	.045							60	3.08	
33679	225.00	226.50	1.50	4.75	.93	14.1	4.98	.027							40	3.08	
33680	226.50	228.00	1.50	4.74	.70	8.0	6.23	.024							30	2.87	
33681	228.00	229.40	1.40	6.83	1.04	15.0	6.83	.035							40	3.14	
33682	229.40	229.90	0.50	21.10	3.54	21.2	10.60	.103							60	3.86	
33683	229.90	232.10	2.20	3.52	.53	14.9	5.07	.022							50	2.98	
33684	232.10	234.40	2.30	2.11	.62	6.8	27.40	.024							50	3.49	
33685	234.40	236.70	2.30	1.46	1.10	10.2	34.80	.018							100	3.72	
33686	236.70	238.40	1.70	0.007	0.13	5.6	43.30			65	1278	5.6		.7	195	3.56	
33687	238.40	240.10	1.70	0.005	0.07	5.0	43.10			46	736	5.0		.4	218	3.65	

Sample	From (m)	To (m)	Length (m)	ASSAYS Zn %	Pb %	Ag g/t	Ba %	Cd %	S %	GEOCHEMICAL Zn ppm	Pb ppm	Ag ppm	Ba ppm	Cd ppm	Cu ppm	S.G.	COMMENTS
33688	240.10	241.80	1.70	0.004	0.06	5.3	42.50			35	594	5.3		.5	55	3.58	
33689	241.80	243.50	1.70	0.005	0.02	3.0	50.80			47	225	3.0		.6	27	3.87	
33690	243.50	245.50	2.00	0.07	0.01	2.5	11.70			720	142	2.5		5.6	38		
34915	245.50	246.70	1.20	0.02	0.01	2.6	13.20			244	76	2.6		3.1	25		
34916	246.70	248.30	1.60	0.05	0.02	3.7	.80			489	150	3.7		4.7	26		
34917	248.30	249.50	1.20	0.18	0.02	2.4	.59			1810	160	2.4		15.2	31		
AVE.	189.80	232.10	42.30	4.75	0.83	8.36	5.65	0.02							45.53		
ALT.AVG.	197.80	214.40	16.60	5.32	0.93	8.08	6.60	0.03							49.46		
ALT.AVG.	223.50	232.10	8.60	6.39	1.10	13.63	6.35	0.03							45.47		

Total amount of samples= 43
Total length sampled = 67.6M

HOLE NUMBER: A-94-08

MINNOVA INC.
DRILL HOLE RECORD

DATE: 22-March-1995
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GATAGA
PROJECT NUMBER: 677
CLAIM NUMBER: AKIE 5
LOCATION:

PLOTTING COORDS GRID: AKIE
NORTH: 2382.00S
EAST: 35.00E
ELEV: 1660.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -55° 0' 0"
LENGTH OF THE HOLE: 203.00m
START DEPTH: 0.00m
FINAL DEPTH: 203.00m

COLLAR GRID AZIMUTH : 90° 0' 0"

COLLAR ASTRO. AZIMUTH : 50° 0' 0"

DATE STARTED: August 26, 1994
DATE COMPLETED: August 29, 1994
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
CAPPED: NO
HOLE SIZE: NQ

CONTRACTOR: BRITTON BROS. DRILLING
CASING: 9.8 M
CORE STORAGE: ON SITE

PURPOSE: TEST WEAK Pb SOIL ANOMALY & CARDIAC CREEK ZONE 1.0KM FROM HOLES A-5 & A-7

COMMENTS :

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
61.00	-	-55° 0'	ACID	OK	
121.90	-	-51° 0'	ACID		WATER IN TUBE - NO GOOD
182.90	-	-46° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 9.80	CASING					
9.80 TO 126.20	CARBONACEOUS SHALE «CARB SH»	Black, v.f.gr. moderately foliated, weakly carbonaceous along foliation planes Occasional 10-20 cm thick quartz veined massive chert zones often with pyritic tops Rare <10 cm zones of light grey highly calcareous siltstone 30.0 Foliation @ 42.8 Bedding @ 51.7 Foliation @ 68.9-93.5 -baritic carbonaceous shale; 5-7%, 2-3 mm rounded to irregular disseminated white calcareous siliceous pyritic nodules - barite nodules? Higher carbon content than preceeding shales Foliations 55-65 deg TCA 87.9 Bedding @ 93.5-102.2 -massive to weakly foliated black shale; less carbonaceous than top of hole -foliation @ 99.9-102.2 -<1-2 cm round calcareous nodules with 1 mm pyrite rims 102.0-107.0 -carbonaceous shale; on dry surface can see laminations defined by slight colour contrasts -Bedding @ 107.0-112.7 -baritic shales; same as for interval 68.9-93.5; not as carbonaceous	 65 60 65 70 60 50	Variably siliceous changing from weak to strongly silicified; overall weakly silicified Some qtz veining and fracture surfaces have inclusions and coating of soft yellow brown material -non siliceous	<1% diss pyrite, occasional pyrite laminations 68.9-93.5 -nodules with brassy py cores or rims	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		112.7-120.1 -continuation of laminated carbonaceous shales; laminations seen on dry core as lighter grey layers, locally calcareous			120.1-125.9 -3-5% finely disseminated pyrite	
126.20 TO 137.60	LAMINAR PYRITIC SHALE «LAM PY SH»	Black, massive, weakly pyritic silicified shale hosting 1-10 cm thick zones of laminar bedded ultrafine pyrite with very minor coarse grained pyrite with barite layers Bedding @ 50-55 deg TCA		Moderate to strongly silicified	10-12% ultrafine grained laminar bedded pyrite within 1-10 cm zones	
137.60 TO 173.90	SILICIFIED SHALE «SIL SH»	Black, fine grained, massive to weakly foliated, weakly pyritic silicified shale, locally calcareous Patchy 20-40 cm black graphitic chert zones Foliation @ 45-50 deg TCA 147.0 Bedding @ 149.9 Bedding @ 154.1 Bedding @ 157.6 Bedding @ {164.9-170.3} «FLT-SH-PY» -mixed interval of non-siliceous shale, highly qtz veined and silicified shale, laminar bedded pyrite and minor barite. Brecciated. 170.3-173.9 -black, weakly silicified shale 173.5 Bedding @	 60 50 65 60 55	137.6-154.1 -moderate to strongly silicified	137.6-154.1 -5-6% finely disseminated pyrite 156.2-164.9 -3-5% laminar bedded pyrite, locally with nodular barite with py core 166.7-167.9 -5-7% laminar pyrite 167.9-170.3 -25% laminar pyrite, minor sphalerite within 1-10 cm thick beds 170.3-173.9 -<1-1% diss. pyrite 173.5 8 cm laminated py-sp	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
173.90 TO 184.40	INTERBEDDED SHALE & PY-SP «SH-PY-SP»	Black, f.gr. massive to weakly foliated silicified shale hosting 5 cm - 30 cm thick zones of laminated py-sp Patchy black and creamy grey heavily qtz veined graphitic chert zones 10-30 cm thick Minor round septarian nodules within sulphide zones 3-5% nodular blebby barite within pyrite zones Sphalerite rich beds, weakly calcareous 175.0 Bedding @ 179.7 Bedding @ Foliation @	 70 60 35	Moderate to strongly silicified	20% interlaminated py-sp; sulphides occur as fine laminations within 5-30cm thick zones; sulphides predominantly pyrite with sp rich areas from 173.9-174.6 and 179.0-179.4 <1-2% diss py within shale host	
184.40 TO 187.40	BEDDED BARITE & SHALE «BDD Ba-SH»	Laminated to thinly bedded light grey laminated barite, black massive silicified shale and dark grey massive chert Approx. 35% shale/cherts, weakly graphitic Bedding @	 60		7-10% pyrite laminations	
187.40 TO 193.50	SILICIFIED SHALE «SIL SH»	Black, f.gr., weakly foliated shale, weakly graphitic ⎨187.4-188.4⎬ «FLT» Fault zone. graphitic, black and creamy grey intensely quartz veined. Foliation @ Gradational lower contact over 50 cm	 45	Moderately silicified	2-3% diss pyrite	
193.50 TO 196.10	CALCAREOUS SILTY SHALE «CALC SILTY SH»	Black, f.gr. calcareous silty shale and streaky light grey calcareous silt beds Bedding @	 65			

Sample	From (m)	To (m)	Length (m)	ASSAYS Zn %	Pb %	Ag g/t	Ba %	Cd %	S %	GEOCHEMICAL Zn ppm	Pb ppm	Ag ppm	Ba ppm	Cd ppm	Cu ppm	S.G.	COMMENTS
34852	132.00	132.90	0.90	0.04	0.005	1.5	2.40			428	46	1.5		.5	33		
34853	132.90	134.10	1.20	0.11	0.003	1.3	1.88			1130	25	1.3		1.9	30		
34854	134.10	135.40	1.30	0.05	0.001	1.2	1.54			468	14	1.2		.6	19		
34855	135.40	137.60	2.20	0.19	0.01	1.4	2.46			1855	51	1.4		2.6	31		
34856	164.90	166.70	1.80	0.04	0.002	2.4	2.18			414	20	2.4		3.4	28		
34857	166.70	167.90	1.20	0.03	0.002	2.1	3.25			256	23	2.1		2.6	20		
34858	167.90	169.10	1.20	0.52	0.05	4.4	2.08			5190	519	4.4		21.3	46		
34859	169.10	170.30	1.20	0.79	0.12	5.2	3.11			7930	1240	5.2		29.2	57		
34860	170.30	172.10	1.80	0.16	0.04	1.3	1.31			1555	352	1.3		8.9	16		
34861	172.10	173.90	1.80	0.46	0.11	2.7	2.58			4580	1075	2.7		21.3	28		
33691	173.90	174.60	0.70	11.30	1.29	14.5	8.33	.052									
33692	174.60	175.50	0.90	.76	.22	6.4	3.42	.005									
33693	175.50	176.90	1.40	.18	.04	1.2	2.36			1810	403	1.2		10.5	16		
33694	176.90	178.30	1.40	.20	.22	6.4	1.47			2040	882	1.7		11.5	21		
33695	178.30	179.80	1.50	3.64	.59	9.7	6.05	.020									
33696	179.80	181.30	1.50	.13	.06	2.6	2.90	.001									
33697	181.30	182.80	1.50	.28	.11	4.5	3.47	.002									
33698	182.80	184.40	1.60	.10	.04	2.3	5.16	.001									
33699	184.40	185.90	1.50	0.03	0.03	1.6	36.30			347	253	1.6		2.0	15		
33700	185.90	187.40	1.50	0.06	0.02	2.4	22.40			580	228	2.4		3.6	25		
34851	187.40	188.40	1.00	0.11	0.02	2.3	8.10			1105	169	2.3		7.9	34		
AVE.	173.90	179.80	5.90	2.47	0.40	6.97	3.96	0.01		913.56	304.92	0.69		5.22	8.78		

Total amount of samples= 21
Total length sampled = 29.1M

HOLE NUMBER: A-94-09

MINNOVA INC.
DRILL HOLE RECORD

DATE: 22-March-1995
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GATAGA
PROJECT NUMBER: 677
CLAIM NUMBER: AKIE 5
LOCATION:

PLOTTING COORDS GRID: AKIE
NORTH: 2382.00S
EAST: 35.00E
ELEV: 1660.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -85° 0' 0"
LENGTH OF THE HOLE: 350.80m
START DEPTH: 0.00m
FINAL DEPTH: 350.80m

COLLAR GRID AZIMUTH : 90° 0' 0"

COLLAR ASTRO. AZIMUTH : 50° 0' 0"

DATE STARTED: August 29, 1994
DATE COMPLETED: September 2, 1994
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
CAPPED: NO
HOLE SIZE: NQ

CONTRACTOR: BRITTON BROS. DRILLING
CASING: 6.1 M
CORE STORAGE: ON SITE

PURPOSE: TEST DOWNDIP EXTENSION OF LAMINATED PY-SP & BEDDED Ba IN HOLE A-94-8

COMMENTS :

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
61.00	-	-84° 0'	ACID	OK	
122.00	-	-83° 0'	ACID	OK	
182.90	-	-82° 0'	ACID	OK	
243.80	-	-80° 0'	ACID	OK	
304.80	-	-77° 0'	ACID	OK	
350.80	-	-74° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 6.10	CASING					
6.10 TO 205.00	CARBONACEOUS SHALE «CARB SH»	Black, f.gr., weakly foliated shale, graphitic along foliation planes; rare silty light grey calcareous beds 17.4-19.4 -medium grey massive chert ⌊18.0-22.5⌋ «FLT?» -strong to intense qtz veining; equivalent to narrow qtz veined zone at top of hole A-8 -milled texture at base of interval 28.9 Bedding @ 47.9 Bedding @ ⌊69.9-74.0⌋ «CHT» -medium grey massive chert; 10 cm Lst bed at top, limestone beds at base -Bedding @ 98.1 -possible fault @ -6 cm gougy soft shale 96.3-117.2 -bedding defined by laminar py, fairly consistent @ 25-30 deg TCA 119.9-124.0 Foliation @ 130.5-140.8 -patchy disseminated mm scale white calcareous baritic? nodules usually with brassy py inclusions -Bedding @ 154.6-156.3	40 50 20 45 20 15	Non to weakly silicified, patchy strong silicification -moderate <1 cm qtz veining Patchy silicification -strongly foliated	Trace diss. pyrite, rare beds of laminar pyrite -trace diss red sp within qtz veins; single occurrence of chalcopyrite noted within qtz veins 81.7 and 83.0 -traces of sphalerite within calcite veining ⌊96.3-117.2⌋ «5-7% LAM PY» -5-7% v.f.gr. laminar bedded py in 1-3 cm and up to 20 cm zones 117.2-130.6 -1-2% finely disseminated pyrite ⌊130.5-140.8⌋ «6-7% LAM PY» -6-7% laminar bedded pyrite occurring in 30-60 cm zones of wispy laminar pyrite and shale	57.3-69.9 -rubbly, broken, poor core recovery 78.9-96.6 -rubbly broken core, poor recovery

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-possible fault, strong qtz veining, graphitic brecciated				
		163.7 Bedding @	12	-strongly silicified through sulphide	⌈160.7-196.6⌋ «7-8% LAM PY»	
		172.5 Bedding @	30	zones	-7-8% laminar pyrite as in previous	
		176.3 Bedding @	40		interval	
		185.4 Bedding @	40		-concentrations of sulphides from 170.6	
		195.7 Bedding @	35		-173.1 and 176.3-176.7	
		⌈201.7-205.0⌋ «GRAPH FLT»				
		-graphitic fault		-intense qtz veining		
		-strongly brecciated and quartz veined, massive 2-3%, 3-5 cm zones of nodular barite and laminar pyrite, some non disturbed, others sheared and brecciated				
		-highly graphitic gougy lower contact, 40 cm sheared appearance above contact				
		207.3-209.4				
		-rubbly and poor core recovery, graphitic, possible faulting?				
205.00 TO 308.80	NON SILICEO US SHALE «SH»	Black, very f.gr., massive, weakly foliated nonsiliceous shale; patchy nodular barite with pyrite cores interbedded with laminar pyrite			1-2% Laminar pyrite-barite	
		Locally graphitic along foliation planes				
		217.5 Bedding @	50			
		225.7 Bedding @	50			
		235.2 Bedding @	63		⌈233.0-239.6⌋ «5% LAM PY-Ba»	
					-3-5 cm zones of laminar pyrite and blebby barite	
					-rare zones of 10 cm	
					253.1-254.8	
					-10% laminar py and blebby barite	
		⌈256.1-257.7 «FLT»				
		-fault zone; strongly qtz veined, brecciated, graphitic, large swing in bedding angles across fault zone				
		257.7-264.9				
		-drill down the dip plane, core angles 0 deg TCA		-moderately silicified	257.7-264.9	
					-interlaminated py and shale; drill	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
					down dip plane of pyritic interval 30-40% py	
		277.5 -possible fault -qtz veined with brecciated fragmental laminar pyrite			⟨277.5-280.3⟩ «80% py» -80% laminar bedded, massive pyrite	
		279.3 Bedding @	10			
					282.5-283.7 286.2-287.6 -50-55% laminar bedded massive pyrite interbedded with shale	
		⟨307.2-308.8⟩ «FLT?» -possible fault zone; moderate quartz veining; last 20 cm brecciated shale and strong, very thinly layered/sheared appearance in last 5 cm -shearing @	45			
308.80 TO 314.40	INTERBEDDED PY-SHALE «LAM PY-SH»	Laminated, massive pyrite with 3-4% mm scale baritic nodules interbedded with nonsilicified shale		Non-siliceous shale interbeds	-60% pyrite as massive laminated beds interbedded with shale	
		308.9 Bedding @ 311.5 Bedding @	45 15			
		Possible faulted lower contact, 15 cm qtz carbonate veining, brecciated and graphitic				
314.40 TO 333.20	LIMESTONE LIMESTONE BRECCIA «LST, LST B X»	Light grey, medium to coarse grained, recrystallized, probable fossilerous lst protolith, massive with common brecciation and stringer sulphide infilling; common stylolites		Patchy coarse calcite qtz veining	⟨315.3-328.9⟩ «py stringers» -7-8% pyrite stringers with common fine colloform textures below 319.5	
		314.4-315.3 -limestone breccia, weakly layered limestone fragments in a black shale matrix; fragment supported			315.3-317.1 -2-3% sphalerite stringers	
		324.1-333.2 -Limestone shale breccia, predominantly limestone fragments, lesser shale frags in a black shale matrix			328.9-333.2 -1-2% pyrite	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
333.20 TO 350.80	CALCAREOUS SILTSTONE «CALC SLTST » E.O.H.	Dark grey, weakly calcareous siltstone with weak interbedding of light grey silty limestone/ limy siltstone; silty limestone beds often broken, distorted and fragmented -layering @ 40-45 deg TCA			<1 to 2-3% diss. wispy layered pyrite	

Sample	From (m)	To (m)	Length (m)	ASSAYS Zn %	Pb %	Ag g/t	Ba %	Cd %	S %	GEOCHEMICAL Zn ppm	Pb ppm	Ag ppm	Ba ppm	Cd ppm	Cu ppm	S.G.	COMMENTS
34862	138.50	139.10	0.60	0.01	0.03	2.6	1.14			86	259	2.6	n/a	.2	65		
34863	191.10	192.10	1.00	0.12	0.01	1.4	1.44			1225	71	1.4	n/a	10.4	51		
34864	257.70	260.10	2.40	0.10	0.01	2.2	1.37			984	94	2.2	n/a	9.1	46		
34865	260.10	262.50	2.40	0.01	0.01	1.2	0.88			75	73	1.2	8820	.9	35		
34866	262.50	264.90	2.40	0.02	0.01	1.1	1.00			176	64	1.1	9950	1.3	30		
34867	277.50	278.90	1.40	0.17	0.14	10.7	0.96			1665	1400	10.7	9610	12.0	74		
34868	278.90	280.30	1.40	0.34	0.13	7.6	0.83			3400	1300	7.6	8250	21.4	64		
34869	282.50	283.70	1.20	0.04	0.12	8.1	0.75			373	1160	8.1	7480	24.1	85		
34870	286.20	287.60	1.40	1.44	0.09	8.8	0.71			>10000	949	8.8	7070	93.3	80		
34871	308.80	310.20	1.40	0.50	0.15	5.90	1.46			5020	1475	5.9	n/a	29.1	55		
34872	310.20	311.60	1.40	0.93	0.15	5.60	1.80			9260	1500	5.6	n/a	54.5	50		
34873	311.60	313.00	1.40	1.28	0.08	3.70	2.14			>10000	800	3.7	n/a	66.6	34		
34874	313.00	314.40	1.40	0.44	0.17	7.00	2.17			4410	1675	7.0	n/a	24.6	77		
34875	314.40	315.30	0.90	n/a			10.50			410	281	4.3	n/a	2.4	26		
34876	315.30	317.10	1.80	2.49	.08	3.9	6.42	.010									
34877	317.10	318.30	1.20	0.27	0.01	4.4	10.70			2720	89	4.4	n/a	9.0	7		
34878	318.30	319.50	1.20	0.05	0.01	5.3	11.20			493	74	5.3	n/a	1.7	10		
34879	319.50	321.10	1.60	0.01	0.01	6.1	1.02			84	108	6.1	n/a	.7	13		
34880	321.10	322.80	1.70	0.20	0.01	5.9	0.58			1975	121	5.9	5760	9.3	18		
34881	322.80	324.10	1.30	0.02	0.005	4.8	0.25			185	49	4.8	2460	1.3	6		
34882	324.10	325.70	1.60	0.08	0.01	5.1	0.67			829	86	5.1	6710	4.0	17		
34883	325.70	327.30	1.60	0.005	0.01	5.5	0.14			46	149	5.5	1380	.3	22		
34884	327.30	328.90	1.60	0.04	0.01	5.3	0.44			397	92	5.3	4440	2.2	20		
34918	328.90	330.60	1.70	0.002	0.01	4.2	.59			22	50	4.2		.5	9		
34919	330.60	332.10	1.50	0.10	0.01	3.6	.31			950	61	3.6		7.6	18		
34920	332.10	333.20	1.10	0.16	0.01	2.5	.32			1620	74	2.5		10.8	27		
AVE.	308.80	314.40	5.60	0.79	0.14	5.55	1.89					5.55		43.70	54.00		

Total amount of samples= 26
Total length sampled = 38.6M

HOLE NUMBER: A-94-10

MINNOVA INC.
DRILL HOLE RECORD

DATE: 22-March-1995
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GATAGA
PROJECT NUMBER: 677
CLAIM NUMBER: AKIE 7
LOCATION:

PLOTTING COORDS GRID: AKIE
NORTH: 2858.00S
EAST: 20.00E
ELEV: 1610.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -49° 0' 0"
LENGTH OF THE HOLE: 294.70m
START DEPTH: 0.00m
FINAL DEPTH: 294.70m

COLLAR GRID AZIMUTH : 90° 0' 0"

COLLAR ASTRO. AZIMUTH : 50° 0' 0"

DATE STARTED: September 4, 1994
DATE COMPLETED: September 7, 1994
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
CAPPED: NO
HOLE SIZE: NQ

CONTRACTOR: BRITTON BROS. DRILLING
CASING: 6.1 M
CORE STORAGE: ON SITE

PURPOSE: TEST CARDIAC CREEK MASSIVE SULPHIDE HORIZON

COMMENTS :

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
61.00	-	-45° 0'	ACID	OK	
121.90	-	-43° 0'	ACID	OK	
182.90	-	-42° 0'	ACID	OK	
270.40	-	-41° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 6.10	CASING					
6.10 TO 240.10	SILICIFIED CARBONACEOUS SHALE «SIL CARB SH»	Black, v.f.gr. massive to weakly foliated shale becoming graphitic along foliation planes below 17.4 m Below 25.4 patchy lighter grey thin calcareous beds 15.0 Foliation @ 25.5 Bedding @ 32.0 Bedding @ 37.5-39.1 -chert, massive, dark grey, minor qtz veining Below 43.0 -bedding defined by occasional pyritic or calcareous laminations 43.3 Bedding @ Foliation @ 47.9 Bedding @ {50.0-50.2} «FLT GOUGE» -black, fault gouge, late stage faulting 52.4 Bedding @ 79.5 Bedding @ 75.3-83.9 -patchy 8-20 cm zones of lighter grey calcareous shale/siltstone {83.9-84.1} «FLT» -possible fault, light creamy grey siliceous,	 70 55 55 60 60 60 60 60	Weak to moderately silicified, patchy strong silicification Below 73.8 -weakly silicified	<1-2% diss. py, very minor siliceous pyrite veinlets 31.2-32.2 -very minor py laminations 31.2-37.5 -5-7% finely disseminated pyrite 43.2-51.2 -2-3% diss py 63.1-73.8 -4-5% v.f.gr. pyrite within mm scale laminations; 1-2% py slightly coarser grained disseminated with white calcareous siliceous baritic mm spots	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		strong milled appearance, graphitic				
		88.7 Bedding @	80			
		97.5 Bedding @	65		97.5-114.6	
		102.5 Bedding @	85		-patchy 20-50 cm zones of 7-10% pyrite	
		107.0 Bedding @	80		forming faint laminations	
		{120.4-120.6} «FLT GOUGE»				
		-black, massive, clay gouge, later stage faulting				124.1-127.1
						-<50% recovery
		{134.2-141.4} «FLT GOUGE»				134.2-141.4
		-strongly graphitic and gougy, very poor core recovery, minor qtz veining				-possible x-cutting fault moving Cardiac zone to the east on the south side of fault
		146.7-149.6		141.4-200.5	146.7-149.6	
		-bedding @ 70-75 deg TCA		-mod-strongly silicified	-7-8% pyrite mainly as mm laminations and lesser coarser grained cores to white calcareous siliceous baritic? spots	
					149.6-169.5	
					-1-3% mm brassy py as cores to siliceous calcareous (baritic?) spots and veinlets	
					{160.6-165.0} «15-20% LAM PY»	
					-15-20% laminar bedded py, trace sp within qtz-calcite veinlets	
					169.8-182.3	
					-3-5% finely disseminated pyrite; 1-2% py within qtz-calcite veinlets	
		178.1 Bedding @	85		178.1-182.3	
		182.4 Bedding @	70		-patchy laminar bedded pyrite over	
		186.1 Bedding @	60		10 cm widths	
		191.1 Bedding @	60			
		192.8 Bedding @	65		{182.3-192.3} «7-8% LAM PY»	
					-7-8% laminar pyrite, v.f.gr. bedded pyrite, 3-5% fine diss. py within host shales	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		⌊199.6-200.5⌋ «FLT» -strongly graphitic, minor qtz veining folded and distorted pyrite laminations. Below fault weakly silicified shale, massive to weakly foliated; foliation 40-50 deg TCA			201.5 -first appearance of laminar bedded pyrite interlaminated with round 2-3 mm nodular barite ⌊201.5-224.6⌋ «5% LAM PY» -5% laminar bedded pyrite interlaminate with nodular barite within 5-10 cm zones 232.0-233.1 -interlaminated pyrite and nodular barite, 15% pyrite, 20% barite	
		⌊233.1-233.4⌋ «FLT» -strongly silicified, brecciated, abundant fine wormy qtz veining, strongly graphitic -shearing @	60			
		234.4-235.8 -possible faulting - abundant qtz-calcite veining, strongly silicified, graphitic partings; patchy creamy grey silicification			234.4-235.8 -35% pyrite - f.gr. laminar pyrite -<1% diss. yellow sp within silicified areas and qtz veinlets	
		Sharp lower contact into first occurrence of calcareous silty shale/siltstone		236.0-238.0 -abundant wormy qtz veining	⌊236.0-237.2⌋ «75% LAM PY» -75% laminar bedded massive pyrite	
240.10 TO 294.70	CALCAREOUS SILTSTONE «CALC SLTST » E.O.H.	Mix of medium dark grey weakly calcareous siltstone and lighter grey strongly calcareous siltstone/silty limestone. Mixing of lithologies varies from thinly layered to thick dark grey beds with minor thin light grey interbeds Layering/bedding 249.0 @ 279.7 @ Possible fault zones as follows: -qtz-calcite veined, graphitic, some sheared and	 70 70			

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		milled appearance.				
		242.2 -20 cm some slickensides on graphite				
		245.6 10 cm @	45			
		254.9 -8 cm, shearing @ -slickensides on some surfaces	45			
		254.9-256.6 -layering @ 0-15 deg TCA				
		261.4 -8 cm, very strongly graphitic, fragmental appearance slickensides on graphite -shearing possible @	60			
		278.0 -20 cm graphite partings @	55			

Sample	From (m)	To (m)	Length (m)	ASSAYS Zn %	Pb %	Ag g/t	Ba %	Cd %	S %	GEOCHEMICAL Zn ppm	Pb ppm	Ag ppm	Ba ppm	Cd ppm	Cu ppm	S.G.	COMMENTS
34885	161.40	163.20	1.80				1.80			426	52	1.6	n/a	1.0	56		
34886	163.20	164.70	1.50				2.52			1230	43	1.2	n/a	.9	38		
34887	232.00	233.50	1.50				7.59			119	54	3.9	n/a	.3	50		
34888	233.50	234.40	0.90	0.03	0.01	2.10	1.08			305	52	2.1	n/a	3.1	40		
34889	234.40	236.00	1.60	0.33	0.02	3.00	1.89			3275	185	3.0	n/a	22.0	53		
34890	236.00	237.20	1.20	0.03	0.03	7.20	1.21			329	294	7.2	n/a	1.6	51		
34891	237.20	238.70	1.50				n/a			387	45	1.7	7370	2.8	46		
AVE.	233.50	237.20	3.70	0.16	0.02	4.14	1.47				188.00	4.14		10.79	49.19		

Total amount of samples= 7
Total length sampled = 10.0M

HOLE NUMBER: A-94-11

MINNOVA INC.
DRILL HOLE RECORD

DATE: 22-March-1995
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GATAGA
PROJECT NUMBER: 677
CLAIM NUMBER: AKIE 7
LOCATION:

PLOTTING COORDS GRID: AKIE
NORTH: 2858.00S
EAST: 20.00E
ELEV: 1610.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -78° 0' 0"
LENGTH OF THE HOLE: 370.90m
START DEPTH: 0.00m
FINAL DEPTH: 370.90m

COLLAR GRID AZIMUTH : 90° 0' 0"

COLLAR ASTRO. AZIMUTH : 50° 0' 0"

DATE STARTED: September 7, 1994
DATE COMPLETED: September 11, 1994
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
CAPPED: NO
HOLE SIZE: NQ

CONTRACTOR: BRITTON BROS. DRILLING
CASING: 4.0 M
CORE STORAGE: ON SITE

PURPOSE: DOWNDIP TEST OF CARDIAC CREEK ZONE.

COMMENTS :

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
61.00	-	-76° 0'	ACID	OK	
121.90	-	-74° 0'	ACID	OK	
182.90	-	-71° 0'	ACID	OK	
243.80	-	-70° 0'	ACID	OK	
304.80	-	-63° 0'	ACID	OK	
370.90	-	-62° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 4.00	CASING					
4.00 TO 323.80	SILICIFIED CARBONACEOUS SHALE «SIL CARB SH»	Black, v.f.gr., weakly foliated, weakly silicified shale carbonaceous along foliation planes		Weak-moderately silicified, patchy strong silicification; overall silicification increasing downhole	2-3% diss. py throughout	
		17.4 Foliation @	45			
		38.7 Foliation @	35			
		Below 67.2 -begin to see the occasional <1cm bed of light grey calcareous silty shale and rare mm scale pyritic laminae				
		69.4 Bedding @	30			
					84.3-84.4 -qtz calcite veins with large red clots of sphalerite	
		84.7 Foliation @	35			
		92.0 Bedding @	30			
		100.6 Bedding @	30			
		107.2 Bedding @	40			
					130.8-131.5 - 3-5% laminar pyrite as <1 mm faint py laminations	
		131.2 Bedding @	40			
		131.5-133.6 -dark grey, massive chert				136.9-141.6 -broken and rubbly, poor core recovery graphitic but no sign of fault gouge
		Not as carbonaceous below 141.6				
					147.4-182.1 - 1-2% v.f.gr. pyrite as very faint dark 1 mm laminations	
		148.9 Bedding @	60			
		153.8 Bedding @	80		-pyrite laminations very patchy in occurrence	
		162.2 Bedding @	50			
		172.7 Becoming more carbonaceous				
		174.2 Bedding @	50			
		182.1-187.7 Bedding @ 55-65 deg TCA			182.1-192.9 -below 182.1, patchy pyrite laminations becoming more abundant, 3-4% py.	
		{197.7-201.3} «CHT»				

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-dark grey massive chert		-common fine qtz veining		
		⟨199.8-200.3⟩ «FLT@ 30 deg» -fault zone, strongly brecciated, moderately abundant fine qtz veinlets, fairly strong sheared appearance, graphitic, faulting @	30		199.8-203.7 -trace sphalerite within qtz veinlets	
		⟨207.6-221.5⟩ «FLT» -FAULT ZONE, abundant qtz+/-calcite veining, strongly graphitic, local well developed brecciated and sheared appearance -208.1-208.8:10% soft black fault gouge -faulting possibly at 50-60 deg TCA			-3-4% laminar pyrite and blebby barite caught up in the fault zone	
				Below fault zone, weak-moderately silicified	3-5% diss py, patchy 7-8% py laminations over 20-30 cm	
		222.0 Foliation @ 238.3 Foliation @	15 12			
		249.3-254.3 -variable bedding angles from 30-70 deg then back to 50 deg TCA			249.3-254.3 -patchy 5-10 cm zones of laminar bedded py, some py interlaminated with siliceous nodular layers with coarse pyrite cores	
		254-254.1 -possible fault zone, brecciated shale and laminar py healed by qtz veining -faulting @	85			
		261.0-275.7 -foliation defined by very fine calcite veinlets@	25			
		274.6 Bedding @ 276.8 Bedding @	50 40		⟨274.6-285.3⟩ «2-3% LAM-PY-NOD Ba» -2-3% laminar py and nodular barite within 5-6 cm wide zones	
		⟨280.4⟩ «FLT» -10 cm sheared siliceous fault @	43			
		283.4 Bedding @	65	-laminar py-Ba hosted by moderately silicified shales	⟨295.6-321.2⟩ «7-8% LAM PY-NOD Ba» -7-8% laminar pyrite and nodular barite in <10 cm wide zones; <1% py within host shales	
		301.4 Bedding @ 309.6 Bedding @	60 60			

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		295.6-321.3 -foliation generally <20 deg TCA {321.2-323.8} «FLT» -FAULT ZONE -strongly qtz veined and brecciated; focus of faulting is a 20 cm strongly sheared zone at 323.0 with shearing @	45		-3-4% laminar pyrite caught up within fault	
323.80 TO 336.50	INTERBEDDED SHALE & LAM INAR PY «SH-LAM PY»	Interbedded black, weakly foliated silicified shale and thinly laminated massive pyrite with minor sphalerite; laminar pyrite zones average about 10-20 cm wide and locally concentrated over 1 m widths Bedding fairly consistent between 50-60 deg TCA Foliation @	25	Strongly silicified shales	25-30% laminar bedded pyrite; <1% diss py within shale interbeds.	
336.50 TO 353.30	INTERBEDDED SHALE, PYRI TE & SPHALE RITE «SH-PY-SP»	Interbedded black, weakly silicified, weakly foliated shale and thinly laminated massive py-sp Sulphide rich beds weakly calcareous; minor interlamination of barite with sulphides, barite increasing downhole; sulphides partially speckled by mm calcareous and baritic spots/nodules Bedding fairly consistent at 50 deg, decreasing below 351.5 351.5-353.3 -increasing bedded barite content, approx 20% bedded barite {353.3} «FLT» -faulted lower contact @ 352.2 Bedding @ 352.7 Bedding @ 349.8 Foliations @	45 35 25 15	Weakly silicified	35-40% laminar bedded massive sulphides; sulphides concentrated in zones up to 1.5 m wde of massive sulphides <1% diss py within shale interbeds. Larger zones of MS as follows: 339.7-341.3 342.3-343.6 351.3-352.5 352.7-535.3 -greatest barite concentration with up to 1 cm thick galena rich beds	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
353.30 TO 358.60	SILICIFIED SHALE, SHALE BRECCIA «SIL SH BX»	Black, v.f.gr., massive 5% lighter grey <1-3 cm thick pyritic silty beds and fragments; rare limestone fragments, graphitic 353.3-353.6 -fault zone, siliceous qtz veined sheared contact with above MS		Strongly silicified	5% diss py	
358.60 TO 370.90	CALCAREOUS SILTSTONE «CALC SLTST » E.O.H.	Dark grey, weakly calcareous siltstone with laminations and thin beds of light grey, strongly calcareous siltstone; light grey beds often fragmented and jumbled			358.6-360.5 - 2-3% py	

Sample	From (m)	To (m)	Length (m)	ASSAYS Zn %	Pb %	Ag g/t	Ba %	Cd %	S %	GEOCHEMICAL Zn ppm	Pb ppm	Ag ppm	Ba ppm	Cd ppm	Cu ppm	S.G.	COMMENTS
34892	323.80	326.00	2.20	0.49	0.06	2.1	1.35			4910	627	2.1	n/a	22.9	38		
34893	326.00	328.10	2.10	0.90	0.18	5.1	3.10			9000	1770	5.1	n/a	40.0	45		
34894	328.10	330.20	2.10	0.82	0.11	3.0	2.30			8200	1085	3.0	n/a	34.8	29		
34895	330.20	332.10	1.90	2.18	0.24	6.20	3.78			n/a	2440	6.2	n/a	70.0	35		
34896	332.10	333.20	1.10	0.54	0.16	1.60	1.86			5400	1610	1.6	n/a	22.5	28		
34897	333.20	335.10	1.90	2.93	0.36	5.20	6.05			n/a	3590	5.2	n/a	93.7	52		
34898	335.10	336.50	1.40	0.33	0.09	1.3	1.75			3310	897	1.3	n/a	12.8	14		
34899	336.50	337.20	0.70	2.33	.69	5.6	5.57	.010							40	2.96	
34900	337.20	338.40	1.20	9.70	.99	10.5	5.36	.038							40	3.22	
34901	338.40	339.70	1.30	1.46	.54	3.8	6.67	.005							30	2.87	
34902	339.70	341.30	1.60	14.70	2.24	12.6	9.58	.059							30	3.52	
34903	341.30	342.30	1.00	.77	.58	3.6	6.76	.003							20	2.83	
34904	342.30	343.60	1.30	13.00	1.79	16.4	10.10	.070							40	3.47	
34905	343.60	345.10	1.50	1.29	.51	3.9	1.73	.007							30	2.70	
34906	345.10	346.50	1.40	.70	.46	3.3	1.51	.004								2.53	
34907	346.50	347.40	0.90	8.90	1.21	15.3	6.62	.048							70	3.23	
34908	347.40	348.40	1.00	6.28	1.17	11.1	6.57	.037							70	3.09	
34909	348.40	349.80	1.40	.21	.16	1.0	1.59	.002							30	2.60	
34910	349.80	351.50	1.70	.18	.24	1.6	1.96	.002							40	2.66	
34911	351.50	352.50	1.00	6.60	1.17	15.9	13.90	.049							40	3.25	
34912	352.50	353.30	0.80	9.80	5.00	23.4	17.80	.090							90	3.92	
34913	353.30	354.80	1.50	.27	.13	2.7	3.08	.002							40		
AVE.	330.20	353.30	23.10	4.30	0.86	7.18	5.56	0.02		457.75	627.00	1.09		15.31	36.83		
ALT.AVG.	337.20	343.60	6.40	8.55	1.31	9.78	7.86	0.04							32.34		
ALT.AVG.	337.20	348.40	11.20	6.42	1.08	8.75	6.03	0.03							34.37		
ALT.AVG.	337.20	348.40	11.20	6.42	1.08	8.75	6.03	0.03							34.37		
ALT.AVG.	337.20	353.30	16.10	5.40	1.11	8.49	6.29	0.03							37.70		

Total amount of samples= 22
Total length sampled = 31.0M

HOLE NUMBER: A-94-12

MINNOVA INC.
DRILL HOLE RECORD

DATE: 22-March-1995
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GATAGA
PROJECT NUMBER: 677
CLAIM NUMBER: AKIE 7
LOCATION:

PLOTTING COORDS GRID: AKIE
NORTH: 3400.00S
EAST: 75.00W
ELEV: 1470.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -71° 0' 0"
LENGTH OF THE HOLE: 518.80m
START DEPTH: 0.00m
FINAL DEPTH: 518.80m

COLLAR GRID AZIMUTH : 90° 0' 0"

COLLAR ASTRO. AZIMUTH : 50° 0' 0"

DATE STARTED: September 14, 1994
DATE COMPLETED: September 20, 1994
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
CAPPED: NO
HOLE SIZE: NQ

CONTRACTOR: BRITTON BROS. DRILLING
CASING: 6.1 M
CORE STORAGE: ON SITE

PURPOSE: DOWNDIP TEST OF MS IN HOLE A-94-07

COMMENTS :

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
61.00	-	-71° 0'	ACID	OK	
121.90	-	-68° 0'	ACID		WATER IN TUBE
304.80	-	-64° 0'	ACID		
433.40	-	-58°30'	ACID	OK	
182.90	44° 0'	-66° 0'	SING.SHOT	OK	
268.80	46° 0'	-65°30'	SING.SHOT	OK	
365.80	42° 0'	-66°30'	SING.SHOT	OK	
433.40	76° 0'	-58°30'	SING.SHOT		ONLY USE THE DIP
515.70	35° 0'	-56° 0'	SING.SHOT	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 6.10	CASING					
6.10 TO 431.00	SILICIFIED SHALE «SIL SH»	Black, v.f.gr., weak to moderately cleaved silicified Gunsteel shale		Moderate to strongly silicified	18.9-30.0 -3-4% pyrite, mainly as v.f.gr. <1-2mm wide singular laminations; <1-2% v.f.gr disseminated pyrite.	
		20.5 Bedding @	55			
		23.7 Foliation @	55		22.9 -10 cm wormy calcite-qtz veining with 1-2% red sphalerite clots	
		Below 27.3 -becoming graphitic along foliation planes				
		31.3 Foliation @	50			
		41.8-42.5 -15%, 2-3 mm limestone granules/fragments and 3-4% up to 3 mm pyrite rich fragments				
		38.8 Foliation @	50			
		44.3 Foliation @	40		42.5-50.1 -3-5%, <1 mm brassy diss pyrite sometimes associated with fine calcareous or siliceous clots	
		⎩50.1-50.6⎭ «FLT?» -possible fault zone, abundant wormy qtz veining				
		56.7 Foliation @	55		50.6-109.3 -2-4% very finely diss. pyrite	
		78.3-97.0 -very rubbly and poor core recovery, no real indication of faulting				
		93.6 Foliation @	40			
		100.3 Bedding @	40		Below 104.0 -rare singular mm scale py laminations	
		106.0 Bedding @	35			
		108.3 Foliation @	35			
		109.3-109.7				

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-FAULT ZONE?, brecciated appearance, abundant quartz veining			below fault <1-2% diss py	
		109.3-114.9 -very rubbly poor core recovery				
		Foliation measurements 120.5 @ 131.6 @ 142.5 @	 50 35 35			
		146.5-147.5 -dark grey massive graphitic chert				
		163.0-163.5 Bedding @	60		163.0-163.5 -5% laminar py Below 163.5 -<1-2% diss. py	
		175.6 -Bedding @	55			
					202.5-203.9 -3-4% laminar pyrite in 2-3 cm zones	172.8-197.2 -very rubbly and poor core recovery
		203.8 Bedding @	50			
		┤204.7-205.3├ «FLt@ 75 deg» -FAULT ZONE, intensely silicified and qtz-calcite veined, graphitic, strong sheared appearance in last 20 cm -FAULT @	 75			
		206.6-211.4 -7-10%, <1-4 mm grey round to irregular shaped calcareous clots with pyrite cores or rims -Foliation @	 45			
		218.4 Bedding @ Foliation @	45 45			
		230.9 Bedding & Foliation @ 237.7 Bedding & Foliation @	30 40		┤228.0-238.1├ «7-10% LAM PY» -7-10% v.f.gr. laminar py in 10-20 cm zones of laminar py-shale	
					238.1-252.4 -1-3% diss py	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		252.4 Bedding @	30		⟨252.4-263.9⟩ «5% LAM PY»	
		255.7 Bedding @	40		-5% weakly laminar pyrite	
		258.6 Foliation @	35			
		262.1 Bedding @	35		⟨263.9-273.6⟩«7% DISS PY»	
				-mod silicified	-7-8% very finely disseminated pyrite	
		⟨274.3⟩ «FLT»				
		-10 cm fault, creamy grey, silicified, graphitic				
		-possible faulting @	65			
		Below fault to 279.5, strongly silicified and strongly graphitic along foliation, cleavage planes				
					⟨279.5-431.0⟩ «7-8% DISS PY»	
		277.5 Foliation @	20	-strongly silicified	-7-8% finely disseminated pyrite	
		387.0 Foliation @	20		throughout	
		299.5 Foliation @	23	301.4-370.4		
		309.8 Foliation @	20	-weak calcite as 1-3 mm wide veinlets parallel to 10 deg less than the foliation		
		325.0 Foliation @	23			
		349.6 Foliation @	23			
				370.4-429.2	371.1-371.7	
				-weak to moderate calcite - increasing occurrence of calcite-qtz veinlets	-traces of red sphalerite within calcite qtz veining	
		375.0 Foliation @	23			
		386.4 Foliation @	30			
		398.2 Foliation @	25			
		392.6-406.0				
		-common 1-3 cm round calcareous nodules				
		413.5 Foliation @	25			
				429.2-431.0		
				-patchy strong qtz +/- calcite veining		
		⟨430.8-431.0⟩ «FLT @ 50»				
		-faulted lower contact; abundant qtz veining; last 5 cm creamy light grey milled & lithified texture; faulting @	50			

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
431.00 TO 449.70	INTERBEDDED SHALE & LAMINAR PYRITE «SH-LAM PY»	Black, v.f.gr. silicified, weakly pyritic shale interbedded with laminar bedded massive pyrite; sulphide beds 10-20 cm & up to 80 cm thick. <1% septarian nodules within massive pyrite beds 431.1 -7 cm zone brecciated, gougy, graphitic Bedding fairly consistent @ Foliation @ 30-35 deg TCA	 50	Weak to moderately silicified	431.0-447.3 -35% laminar bedded pyrite, occurring within 10-20 cm zones locally 50-80 cm wide 443.2-447.3 -begin to see lighter coloured calcareous sphalerite beds 447.3-449.7 -1% very finely disseminated py within shales	
449.70 TO 479.10	INTERBEDDED SHALE & LAMINAR MASSIVE SULPHIDES «SH-BA MS»	Interbedded laminar baritic py-sp and black, v. f.gr., weakly foliated shale 449.7-456.6 Bedding @ 55-60 deg TCA Foliation @ 460.5 Foliation @ |461.3-464.5| «FLT» -silica flooded, qtz veined, brecciated interval, some veining @ -last 30 cm focus of shearing, faulting possibly@ 468.9 Bedding @ 470.5 Bedding @ Below 470.8 -sphalerite content decreases mainly inter-laminated py and barite; finely disseminated gn	 40 30 25 40 45 55	Weakly silicified -strongly silicified	449.7-456.6 -65% laminar bedded pyrite-sphalerite; sphalerite rich areas calcareous and intergrown with fine barite 456.6-460.2 -black shale with 1-3% finely disseminated py 460.2-461.3 -70% baritic massive sulphides 461.3-464.5 -15% laminar bedded MS within fault zone 464.5-470.8 - 45-50% laminar baritic massive sulphide; predominantly intergrown barite sp-py -greatest concentrations of sulphides from 467.8-469.5 = 85% massive laminar baritic sulphides 470.8-475.4	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		within barite beds 475.8 Bedding @ 476.9-477.4 -massive barite with 7-10% dark grey limestone fragments {477.4-478.0} «FLT @ 55» -brecciated and strongly qtz veined; locus of faulting in first 5 cm - milled and lithified 478.35-479.1 -massive to very poorly bedded barite, possible bedding defined by wispy sulphides; limy and fragmentally textured in last 6 cm	 60		-15% laminar barite-pyrite 475.4-476.9 -50% laminar bedded pyrite interbedded with 25% barite; locally very finely diss. galena within barite beds 476.9-477.4 -5% wispy pyrite 477.4-478.3 -15% laminar pyrite 478.3-479.1 -5-7% wispy pyrite	
479.10 TO 482.30	LIMESTONE SHALE BX «LST-SH BX»	10-15% light grey, rounded crinoidal limestone fragments, 1-2% calcareous siltstone fragments in a black, v.f.gr. silicified shale matrix; matrix supported First 60 cm mix of massive shale and shale frags in a limestone matrix		Strongly silicified	2-3% disseminated and wispy pyrite	
482.30 TO 518.80	CALCAREOUS SILTSTONE «CALC SLTST» E.O.H.	Dark grey, weakly calcareous siltstone with light grey, strongly calcareous streaks/thin beds; locally light grey beds fragmented and jumbled 482.3-484.4 -weak jumbled appearance 488.8 -possible fault at 15-20 deg TCA as a 2 cm wide gougy graphitic seam 498.4 Layering @	 50		482.3-484.4 - 3-5% finely diss py	

Sample	From (m)	To (m)	Length (m)	ASSAYS Zn %	Pb %	Ag g/t	Ba %	Cd %	S %	GEOCHEMICAL Zn ppm	Pb ppm	Ag ppm	Ba ppm	Cd ppm	Cu ppm	S.G.	COMMENTS
34924	236.80	238.10	1.30	0.12	0.004	1.0	2.64			1170	40	1.0		2.1	31		
34925	431.00	431.70	0.70	0.59	0.13	5.1	1.56			5940	1250	5.1		35.8	78	?	
34926	431.70	433.90	2.20	0.17	0.01	0.8	1.14			1730	132	.8		9.2	12	?	
34927	433.90	435.50	1.60	0.93	0.15	5.0	3.41			9260	1540	5.0		45.7	46	?	
34928	435.50	437.00	1.50	0.55	0.10	3.7	3.12			5490	1025	3.7		24.5	23	?	
34929	437.00	438.60	1.60	1.98	0.18	4.60	3.32			>10000	1750	4.6		69.0	27	?	
34930	438.60	440.10	1.50	1.61	0.14	3.60	2.66			>10000	1345	3.6		51.4	28	?	
34931	440.10	441.70	1.60	0.84	0.15	4.20	2.55			8430	1525	4.2		37.2	30	?	
34932	441.70	443.20	1.50	1.49	0.18	5.10	4.69			>10000	1775	5.1		48.9	26	?	
34933	443.20	444.60	1.40	5.27	0.42	8.60	6.91			>10000	4180	8.6		165.0	31	?	
34934	444.60	446.30	1.70	2.15	.38	3.6	4.52	.012							30	2.69	
34935	446.30	447.30	1.00	6.82	1.04	11.7	7.45	.034							60	3.04	
34936	447.30	449.70	2.40	2.59	.64	5.4	3.95	.015							20	2.70	
34937	449.70	450.90	1.20	7.60	1.51	14.0	7.66	.043							40	3.20	
34938	450.90	452.10	1.20	6.74	1.09	15.6	7.48	.036							40	3.23	
34939	452.10	453.20	1.10	1.45	.38	4.5	3.50	.007							20	2.64	
34940	453.20	454.60	1.40	6.62	1.32	17.6	5.48	.036							40	3.16	
34941	453.30	455.50	2.20	1.02	.65	7.9	3.39	.005							30	2.71	
34942	455.50	456.60	1.10	13.10	2.50	20.8	6.08	.070							80	3.38	
34943	456.60	458.40	1.80	.27	.13	1.6	1.36	.002							20	2.57	
34944	458.40	460.20	1.80	.30	.09	1.2	1.53	.002							20	2.54	
34945	460.20	461.30	1.10	14.20	2.73	16.4	12.80	.084							60	3.45	
34946	461.30	462.90	1.60	7.13	1.16	10.6	6.39	.043							40	3.01	
34947	462.90	464.50	1.60	7.54	1.52	10.7	5.71	.044							40	2.88	
34948	464.50	466.00	1.50	4.65	.73	10.5	4.66	.026							20	2.85	
34949	466.00	466.30	0.30	21.50	3.76	23.5	10.00	.118							60	3.81	
34950	466.30	467.80	1.50	2.23	.47	12.6	6.63	.013							40	2.78	
34951	467.80	469.50	1.70	13.60	2.81	22.9	7.45	.079							60	3.35	
34952	469.50	470.50	1.00	.53	.22	3.4	4.06	.005							30	2.58	
34953	470.50	470.80	0.30	9.15	4.21	24.0	25.00	.078							110	3.85	
34954	470.80	472.40	1.60	.94	.24	10.5	4.92	.008							60	2.63	
34955	472.40	473.90	1.50	2.62	1.89	13.2	16.20	.024							60	3.13	
34956	473.90	475.40	1.50	.07	.04	2.4	2.55	.001							20	2.59	
34957	475.40	476.90	1.50	1.86	1.10	24.1	15.66	.017							70	3.26	
34958	476.90	477.40	0.50	1.18	1.08	5.6	42.20	.015							30	3.87	
34959	477.40	478.30	0.90	.04	.13	7.9	10.30	.001							90	2.90	
34960	478.30	479.10	0.80	.01	.02	1.8	44.50	.001							20	3.84	

Sample	From (m)	To (m)	Length (m)	ASSAYS Zn %	Pb %	Ag g/t	Ba %	Cd %	S %	GEOCHEMICAL Zn ppm	Pb ppm	Ag ppm	Ba ppm	Cd ppm	Cu ppm	S.G.	COMMENTS
34961	479.10	480.70	1.60	0.04	0.01	2.5	1.11			359	108	2.5		2.3	32	2.50	
34962	480.70	482.30	1.60	0.10	0.01	3.0	.68			1025	117	3.0		6.5	32	2.53	
34963	482.30	483.70	1.40	0.01	0.01	1.9	.33			104	60	1.9		.5	13	2.75	
AVE.	437.00	477.40	40.40	4.21	0.91	9.97	6.48	0.02		333.86	390.40	0.97		13.65	39.05		
ALT.AVG.	449.70	461.30	11.60	5.29	1.12	11.07	5.44	0.03							40.17		
ALT.AVG.	460.20	469.50	9.30	8.49	1.61	14.27	7.10	0.05							43.44		

Total amount of samples= 40
Total length sampled = 55.3M

ROAD RIVER SILTSTONES

GUNSTEEL SHALES

ROAD RIVER SILTSTONES

ROAD RIVER SILTSTONES

GUNSTEEL SHALES

ROAD RIVER SILTSTONES

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,870

METALL MINING CORPORATION

5a

GATAGA PROJECT
AKIE CLAIMS
SOIL GEOCHEMISTRY
Pb ppm Zn ppm

ROAD RIVER SILTSTONES

GUNSTEEL SHALES

ROAD RIVER SILTSTONES

ROAD RIVER SILTSTONES

GUNSTEEL SHALES

ROAD RIVER SILTSTONES

GEOLOGICAL BRANCH
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METALL MINING CORPORATION

5b

GATAGA PROJECT
AKIE CLAIMS
SOIL GEOCHEMISTRY
Cu ppm Fe %

ROAD RIVER SILTSTONES

GUNSTEEL SHALES

ROAD RIVER SILTSTONES

ROAD RIVER SILTSTONES

GUNSTEEL SHALES

ROAD RIVER SILTSTONES

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,870

METALL MINING CORPORATION	5c
GATAGA PROJECT AKIE CLAIMS SOIL GEOCHEMISTRY Ag ppm Ba ppm	
Traced by	Approved by
Drawn by	File
Supervised by	Scale 1 : 5000 (metres)
Revised by	

ROAD RIVER SILTSTONES

GUNSTEEL SHALES

ROAD RIVER SILTSTONES

ROAD RIVER SILTSTONES

GUNSTEEL SHALES

ROAD RIVER SILTSTONES

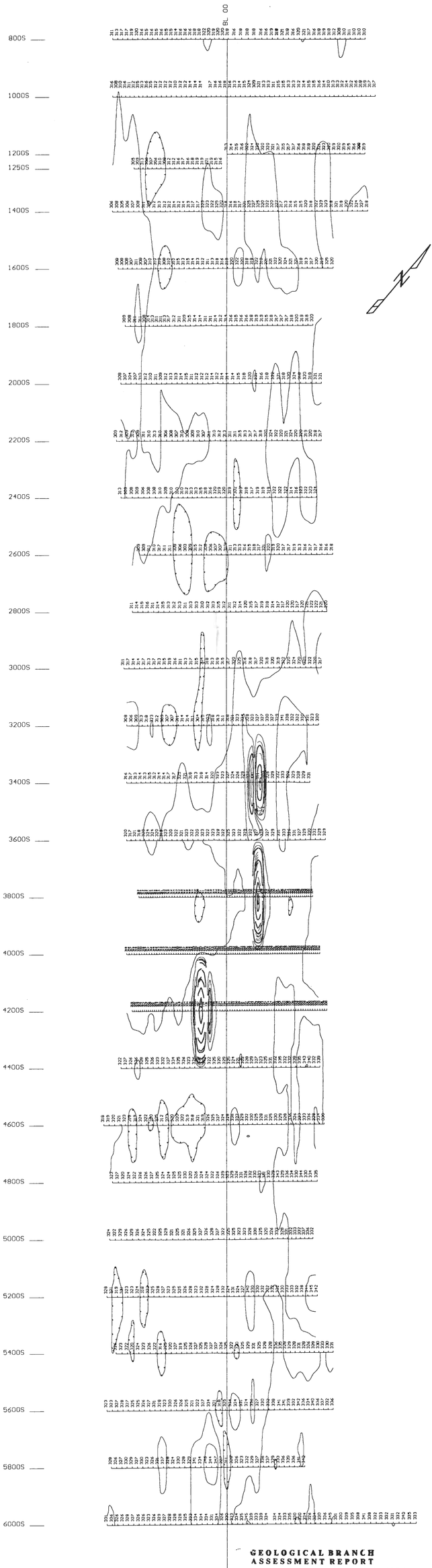
GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,870

METALL MINING CORPORATION

5d

GATAGA PROJECT
AKIE CLAIMS
SOIL GEOCHEMISTRY
Cd ppm Mn ppm



GEOLOGICAL BRANCH
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23,870

FIG.6A

Instrument	: GMSP-2/G
Field	: TOTAL
Datum	: 58000 nT
Contour Interval	: 10 nT

METALL MINING CORP.

MAGNETOMETER SURVEY

BATAGA Project, British Columbia

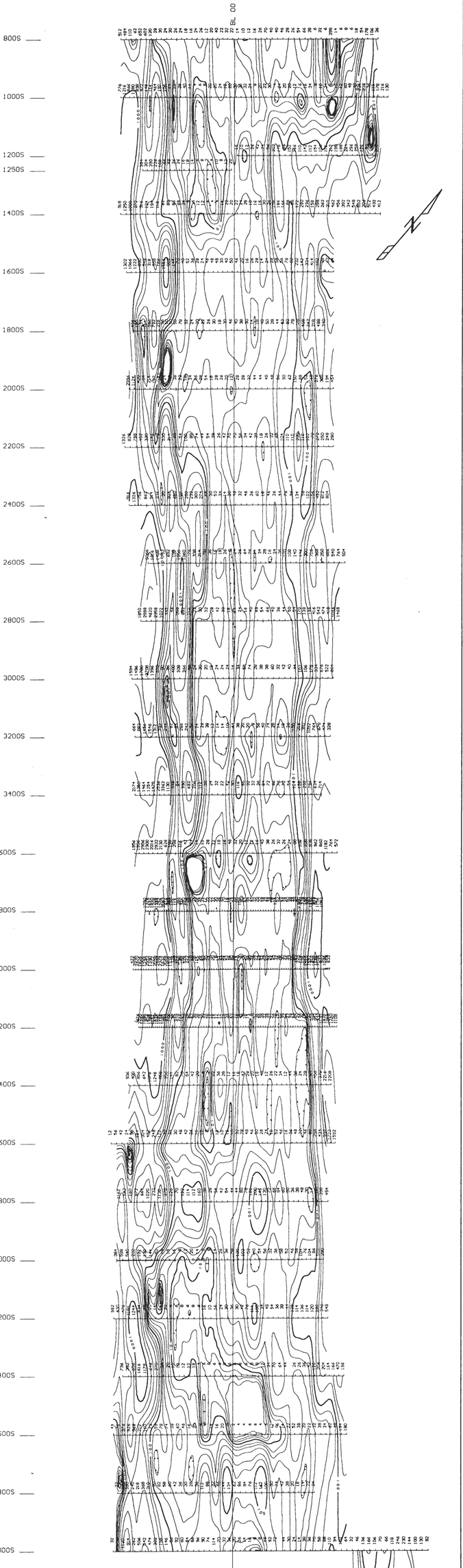
BASELINE AZIMUTH : 140 Deg.

SCALE = 1 : 5000 DATE : Sept. 1994

SURVEY BY : MSB NTS : 94F7

FILE: MAGB

Pacific Geophysical Ltd.



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23,870

FIG.6B

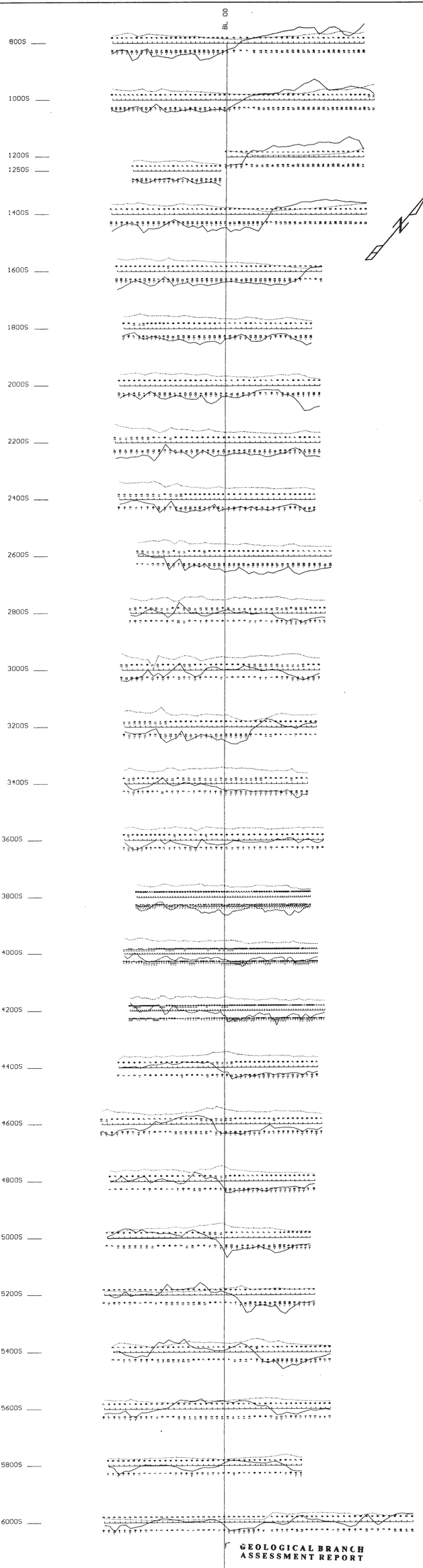
Instrument	: GENIPLUS
Datum	: 0.0 Ohm.m.
Contour interval	: 3,5,7,10,15,20 ohm.m.

METALL MINING CORP.

ULF RESISTIVITY SURVEY
Hawaii, 23.4 kHz
GATAGA PROJECT, British Columbia
BASELINE AZIMUTH : 140 Deg.

SCALE = 1 : 2000 DATE : 10/ 4/84
SURVEY BY : MB NTS : 94F/7

FILD MB038
Pacific Geophysical Ltd.



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ASSESSMENT REPORT

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FIG.6C

METALL MINING CORP.

VLF-EM SURVEY

BATAGA Projects British Columbia
BASELINE AZIMUTH : 140 Deg.

SCALE = 1: 5000 DATE : 6/10/84
SURVEY BY : MSB NTS : 94F/7
FILE: VLF6 FIELD: 21.4 Km.

Pacific Geophysical Ltd.

ROAD RIVER SILTSTONES

GUNSTEEL SHALES

ROAD RIVER SILTSTONES

AXIE 11

AXIE 12

AXIE 10

AXIE 9

AXIE 8

AXIE 2

AXIE 1

AXIE 3

CORE STORAGE

A-94-01

A-94-08
A-94-09

A-94-02

A-94-10
A-94-11

A-94-12

A-94-05
A-94-07

A-94-03
A-94-04

A-94-06

AXIE 13

AXIE 5

AXIE 7

ROAD RIVER SILTSTONES

GUNSTEEL SHALES

ROAD RIVER SILTSTONES

GEOLOGICAL BRANCH
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METALL MINING CORPORATION

7

DATAGA PROJECT
AXIE CLAIMS

1994 DIAMOND DRILL HOLE LOCATION MAP

Prepared by

Approved by

Drawn by JDK/PDF MARCH 1994

File 7965

Supervised by

Scale 1:5000 (vertical)

Revised by