

A SUMMARY OF THE EXPLORATION WORK DONE ON  
THE JAY CLAIM GROUPS  
DURING THE PERIOD 10 - 19 JULY 1996

WATSON LAKE AREA, YUKON MINING DISTRICT  
NTS 105A-6  
60°25'00" N, 128°57'00" W

ON BEHALF OF

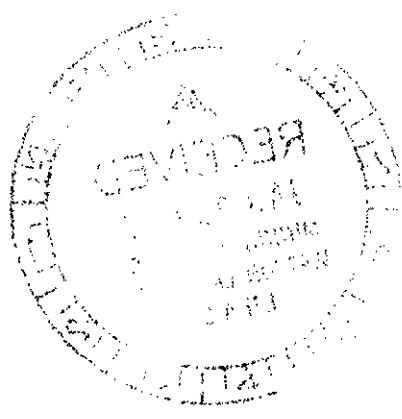
MINFOCUS INTERNATIONAL INCORPORATED



LORRAINE GODWIN  
CONSULTING GEOPHYSICIST  
GAMAH INTERNATIONAL LIMITED  
SUITE 707, 1243 ISLINGTON AVENUE  
TORONTO, ONTARIO  
M8X 1Y9

DECEMBER 1996

093562



This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 10,600.

*M. B. ...*  
Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

# **GAMAH INTERNATIONAL LIMITED**

---

## **SUMMARY**

Dr. Adrian Mann conducted research on the JAY claims in 1995 and found that the geochemical results from the 1982 Assessment Report by David Arscott for Kerr-Addison showed exciting results (Mann, 1996). He recommended a detailed summer mapping exercise, coupled with multi-element ICP geochemical sampling of the sub-moss humus. Thus, in July 1996, eight days were spent with crews flagging and blazing grid lines, conducting geophysical surveys, as well as performing reconnaissance geological mapping and collecting geochemical soil samples at various locations along the grid lines (44 soil and 5 rock samples were collected in total). The work done consisted of 13, 299 m (in 12 lines) of linecutting, reconnaissance geological mapping and geochemical sampling, as well as geophysical surveying.

The results of this report are inconclusive due to the sparseness of the grid coverage. It is recommended that further detailed exploratory work is performed over the claim group in order to determine the economic value of this claim group.

# GAMAH INTERNATIONAL LIMITED

---

## TABLE OF CONTENTS

1.0 INTRODUCTION	PAGE 1
2.0 LOCATION AND LOGISTICS	PAGE 1
3.0 PROPERTY OWNERSHIP	PAGE 6
4.0 PREVIOUS WORK	PAGE 6
5.0 SUMMARY OF WORK COMPLETED IN 1996 PROGRAM	PAGE 9
6.0 GEOLOGY	PAGE 9
7.0 SURVEYS	PAGE 11
7.1 GEOCHEMICAL SURVEY - METHODOLOGY	PAGE 11
7.2 GEOCHEMICAL SURVEY - RESULTS	PAGE 11
7.3 MAGNETOMETER SURVEY - METHODOLOGY	PAGE 11
7.4 MAGNETOMETER SURVEY - RESULTS	PAGE 12
7.5 ELECTROMAGNETIC SURVEY - METHODOLOGY	PAGE 12
7.6 ELECTROMAGNETIC SURVEY - RESULTS	PAGE 12
8.0 CONCLUSIONS AND RECOMMENDATIONS	PAGE 12
9.0 FOOTNOTES	PAGE 12
10.0 STATEMENTS OF QUALIFICATIONS	PAGE 14
11.0 PERSONNEL AND CONTRACTORS EMPLOYED	PAGE 16
12.0 STATEMENT OF COSTS	PAGE 17
13.0 REFERENCES	PAGE 18

## FIGURES

FIGURE 1 GENERAL LOCATION MAP, YUKON HIGHWAY MAP, 1982	PAGE 2
FIGURE 2 WATSON LAKE TOPOGRAPHIC MAP, 1:250,000	PAGE 3
FIGURE 3 GRID COVERAGE OF JAY CLAIMS	PAGE 7
FIGURE 4 JAY CLAIMS PLAN EXTRACTED FROM CLAIM MAP 105A-6, 1:50,000	PAGE 8
FIGURE 5 GEOLOGICAL MAP OF WATSON LAKE AREA, 1:1,000,000	PAGE 10

## TABLES

TABLE 1 SUMMARY OF JAY CLAIMS INFORMATION	PAGE 4
-------------------------------------------	--------

# **GAMAH INTERNATIONAL LIMITED**

---

## **APPENDICES**

APPENDIX A GEOCHEMISTRY	PAGE 19
A.1 NORTH GRID	PAGE 20
A.2 GEOCHEMICAL CONTOURS FOR JAY CLAIM (NORTH END) - AS, AU, CU, ZN	PAGE 21
A.3 SOUTH GRID	PAGE 25
A.4 GEOCHEMICAL CONTOURS FOR JAY CLAIM (SOUTH END) - AU, CU, ZN	PAGE 26
A.5 NORTH AND SOUTH GRIDS	PAGE 29
A.6 GEOCHEMICAL CONTOURS FOR JAY CLAIM (ENTIRE GRID) - AS, AU, CU, ZN	PAGE 30
A.7 JAY GEOCHEMICAL RESULTS	PAGE 34
A.8 BONDAR CLEGG ASSAY CERTIFICATES	PAGE 35
APPENDIX B MAGNETIC CONTOURS OF JAY CLAIMS	PAGE 42
B.1 NORTH GRID	PAGE 43
B.2 MAGNETIC CONTOURS OF JAY CLAIMS (NORTH END)	PAGE 44
B.3 SOUTH GRID	PAGE 45
B.4 MAGNETIC CONTOURS OF JAY CLAIMS (SOUTH END)	PAGE 46
APPENDIX C ELECTROMAGNETIC PROFILES OF JAY CLAIMS	PAGE 47
APPENDIX D GEOPHYSICAL NOTES	PAGE 60

# **GAMAH INTERNATIONAL LIMITED**

---

## **1.0 INTRODUCTION**

A brief summer exploration program was carried out on the JAY claim group at the recommendation of Dr. Adrian Mann, who researched the area in 1995 (Mann, 1996). Dr. Mann's conclusions were to have a field crew conduct a detailed mapping exercise. Gamah International Limited undertook the recommended exploration program on behalf of Minfocus International Incorporated. This report describes the results of the exploration surveys carried out during the month of July 1996 and provides recommendations for further work.

## **2.0 LOCATION AND LOGISTICS**

The JAY claims lie approximately 45 km north of Watson Lake, Yukon Territory, off the Robert Campbell Highway.

Daily jet service is available from Vancouver to Whitehorse with onward continuation by turbo prop commuter planes to Watson Lake, or three to four times weekly by jet from Vancouver to Terrace then turbo prop to Watson Lake. Regular Greyhound bus service is available along the Alaska Highway.

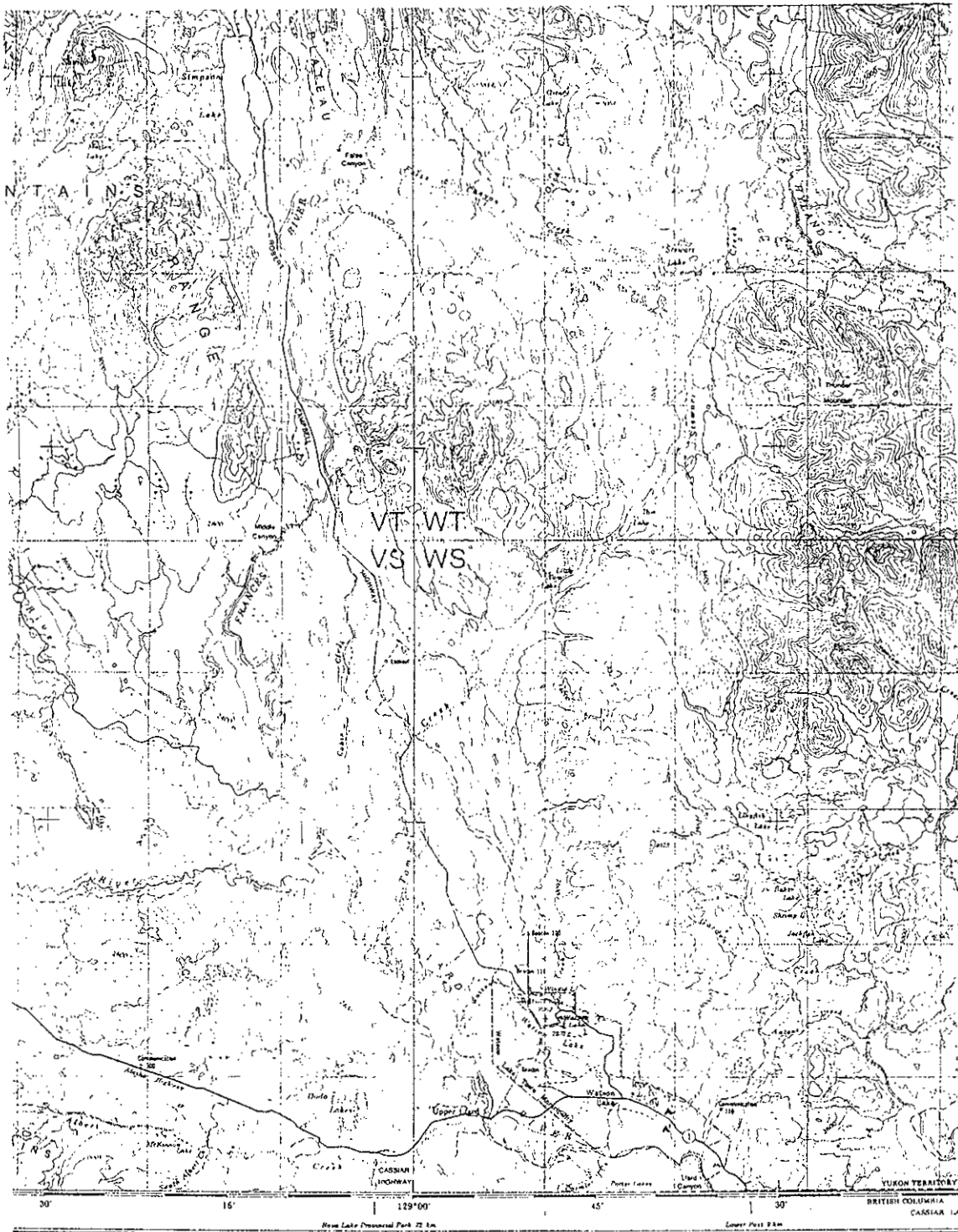
The town of Watson Lake is connected to British Columbia by the Alaska Highway (Route 1). Running northwest from Watson Lake to Carmacks is the all-weather Robert Campbell Highway (Route 4) which provided direct access to the field camp and JAY claims (Figure 1). Both helicopter and float plane bases are established in Watson Lake. The town also boasts four hotels, a trailer park, hospital, health care centre, and ambulance facilities. Supplies, fresh water and consumables were obtained from Watson Lake. Washing water was obtained from the fast-flowing Frances River. Watson Lake also hosts the Mining Recorders Office for the Watson Lake Mining Division which encompasses the JAY claims, where claim maps and other information is accessible (Figure 2).

Driving conditions from December to March require snow tires, winter weight crankcase oil, gasoline anti-freeze, a circulating block heater, battery blanket, battery booster cables, shovel, and a good tow rope or chain. Road conditions in the summer months are quite good although it is recommended that sturdy tires and spares are used as flats are quite common along the Robert Campbell Highway. April and May are spring break-up months in which mud and slush may cause sloppy conditions on some highway sections.

The snow-free period for these areas is estimated to be from mid-April to mid-October, although this is highly variable.

A field camp was established on the south side of the Frances River, at approximately kilometre 60 on the Robert Campbell Highway (as measured from the town of Watson Lake). Access from this location to the JAY claims was approximately 15 km south along the Robert Campbell Highway. The northern portion of the claims was accessed via a rough dirt road which is known as the back entrance to the Sa Dena Hes Mine. This road is in rough shape in places and a chain saw and an axe are necessities for traveling along it. At approximately 7.2 km from the intersection of this road and the Robert Campbell Highway, lie posts #65 and #66 (~20 m south of the road). Access to the southern portion of JAY is via the Sa Dena Hes main road (about 20 km from camp), which is a good-condition gravel road. At approximately 15 km from the intersection of this road and the Robert Campbell Highway, lie posts #1 and #2 (~1 km north of the road).





WATSON LAKE  
 YUKON TERRITORY BRITISH COLUMBIA  
 TERRITOIRE DU YUKON COLOMBIE-BRITANNIQUE

Scale 1:250 000 Échelle

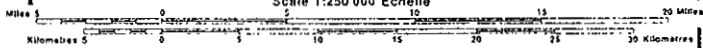


Figure 2

GAMAH INTERNATIONAL LIMITED



Table 1  
Summary of JAY Claims Information

Grant Number	Claim Name	Registered Owner	Anniversary Date	Location	NIS (Claim Sheet #)
YB69850	JAY 72	Minfocus International Inc.	96/10/10	Big Campbell Creek Area	105A-6/7
YB69851	JAY 73	Minfocus International Inc.	96/10/10	Big Campbell Creek Area	105A-6/7
YB69852	JAY 74	Minfocus International Inc.	96/10/10	Big Campbell Creek Area	105A-6/7
YB69853	JAY 75	Minfocus International Inc.	96/10/10	Big Campbell Creek Area	105A-6/7
YB69854	JAY 76	Minfocus International Inc.	96/10/10	Big Campbell Creek Area	105A-6/7
YB69855	JAY 77	Minfocus International Inc.	96/10/10	Big Campbell Creek Area	105A-6/7
YB69856	JAY 78	Minfocus International Inc.	96/10/10	Big Campbell Creek Area	105A-6/7
YB69857	JAY 79	Minfocus International Inc.	96/10/10	Big Campbell Creek Area	105A-6/7
YB69858	JAY 80	Minfocus International Inc.	96/10/10	Big Campbell Creek Area	105A-6/7
YB69859	JAY 81	Minfocus International Inc.	96/10/23	Big Campbell Creek Area	105A-6/7
YB69860	JAY 82	Minfocus International Inc.	96/10/23	Big Campbell Creek Area	105A-6/7
YB70769	JAY 83	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70770	JAY 84	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70771	JAY 85	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70772	JAY 86	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70773	JAY 87	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70774	JAY 88	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70775	JAY 89	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70776	JAY 90	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70777	JAY 91	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70778	JAY 92	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70779	JAY 93	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70780	JAY 94	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70781	JAY 95	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70782	JAY 96	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70783	JAY 97	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70784	JAY 98	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70785	JAY 99	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70786	JAY 100	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70787	JAY 101	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70788	JAY 102	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70789	JAY 103	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70790	JAY 104	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70791	JAY 105	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11
YB70792	JAY 106	Minfocus International Inc.	96/10/23	East of Frances River	105A-6/7/11

# GAMAH INTERNATIONAL LIMITED

## 3.0 PROPERTY OWNERSHIP

The registered owner of the JAY claims is Minfocus International Inc.. Table 1 gives details of record numbers and anniversary dates for the claims. The registration dates of the JAY claims are October 1995. All work described in this report was undertaken after July 9th, 1996.

The field exploration program was conducted on the JAY claim groups on behalf of Minfocus International Incorporated by the consulting group of Gamah International Limited. The JAY claim group consists of 106 contiguous claims numbered 1 to 106 (Figure 3). The claim group falls on both the 1:50,000 topographic and claim map sheets of NTS 105A-6.

## 4.0 PREVIOUS WORK

In September of 1982, David Arscott, on behalf of Kerr-Addison Mines Limited, produced an assessment report on the Watson and Wolverine Lakes areas. He found that "by and large it (the Watson Lake area) can be considered a low-energy, deep sea depositional environment" (Arscott, 1982).

The surveys conducted by David Arscott consisted of detailed sampling of soil and silt along the streams and rivers in the Watson Lake area. In the vicinity of the JAY claims, a total of 84 soil and 71 silt samples were collected along the surrounding streams and rivers. The samples were assayed for Cu, Ag, Au, Pb, Zn and Ba and the results were then plotted onto 1:50,000 scale maps. The highest values for each of the six elements are as follows:

Sample Number	Element	Assay Result
MI60	Cu (soil)	105 ppm
D204	Ag (soil)	3.6 ppm
L113	Au (soil)	70 ppb
L172	Pb (soil)	41 ppm
L120	Zn (soil)	345 ppm
A114	Ba (soil)	340 ppm
C210	Cu (silt)	116 ppm
G210	Ag (silt)	3.6 ppm
B77	Au (silt)	30 ppb
M151	Pb (silt)	29 ppm
D301	Zn (silt)	266 ppm
A114	Ba (silt)	538 ppm

These high values occur along the eastern edge (particularly in the northeastern portion) of the JAY claims and thus indicate that there could be a high possibility of mineralization in this location. Based on Arscott's research and from reconnaissance visits to other claims in the area of the JAY group, Dr. Mann also speculated that there might be a good possibility of finding a copper-zinc impregnated thrust fault within the Watson Lake area (Mann, 1996). On the basis of these conclusions, the summer exploration program of 1996 was carried out.

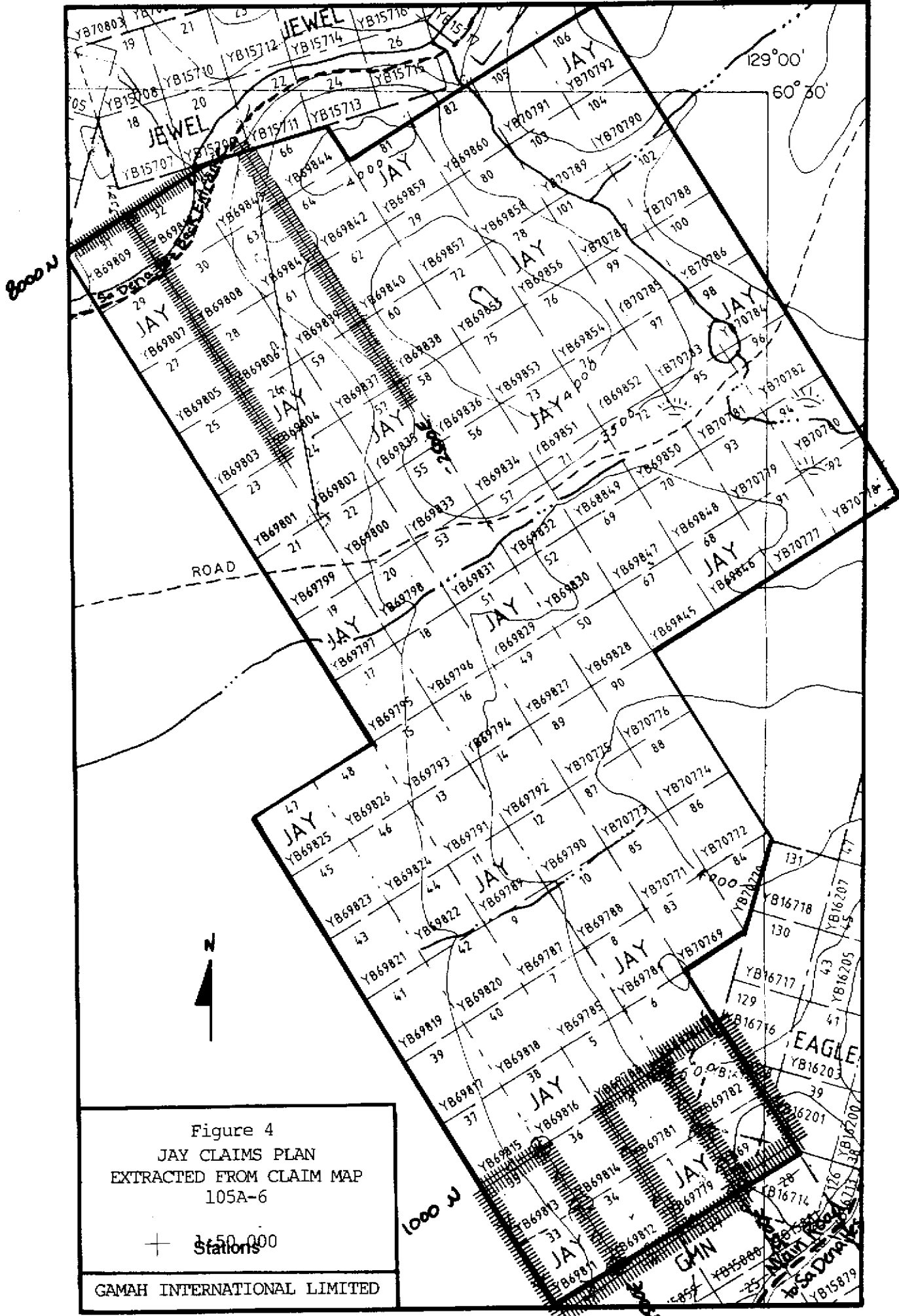


Figure 4  
 JAY CLAIMS PLAN  
 EXTRACTED FROM CLAIM MAP  
 105A-6

1:50,000  
 Stations

GAMAH INTERNATIONAL LIMITED

# GAMAH INTERNATIONAL LIMITED

## 5.0 SUMMARY OF WORK COMPLETED IN 1996 PROGRAM

The field work was carried out on the 10, 11, 12, 13, 16, 17, 18 and 19th of July, 1996. The work consisted of linecutting, reconnaissance geological mapping and soil geochemical surveys, as well as reconnaissance VLF-EM and magnetometer surveys. The north-south running flag and compass lines were established at approximately 500 m intervals, while tie-in east-west lines were established at the ends of the north-south traverses (see Figure 4 for a picture of the grid coverage). Individual stations were fixed at 25 metre intervals. The surveys were carried out simultaneously on all twelve blazed lines (for a total of 13, 299 m).

Line	Interval	Metreage
2500 W	5675 N to 8000 N	2325 m
3050 W	100 N to 975 N	875 m
3500 W	0 N to 1000 N	1000 m
3500 W	5825 N to 8000 N	2175 m
3957 W	0 N to 950 N	950 m
4400 W	0 N to 910 N	910 m
4857 W	0 N to 875 N	875 m
0 N	3525 W to 4850 W	1325 m
100 N	3075 W to 3550 W	475 m
900 N	4425 W to 4857 W	432 m
950 N	3525 W to 3950 W	425 m
990 N	3050 W to 3475 W	425 m
8000 N	2850 W to 3957 W	1107 m

Time constraints did not permit any further exploration work. A total of 44 soil and 5 rock samples were collected over the entire grid (see Appendix A for soil sample locations), all of which were analyzed for copper, gold and zinc (7 of the soils and all of the rock samples were analyzed for arsenic as well).

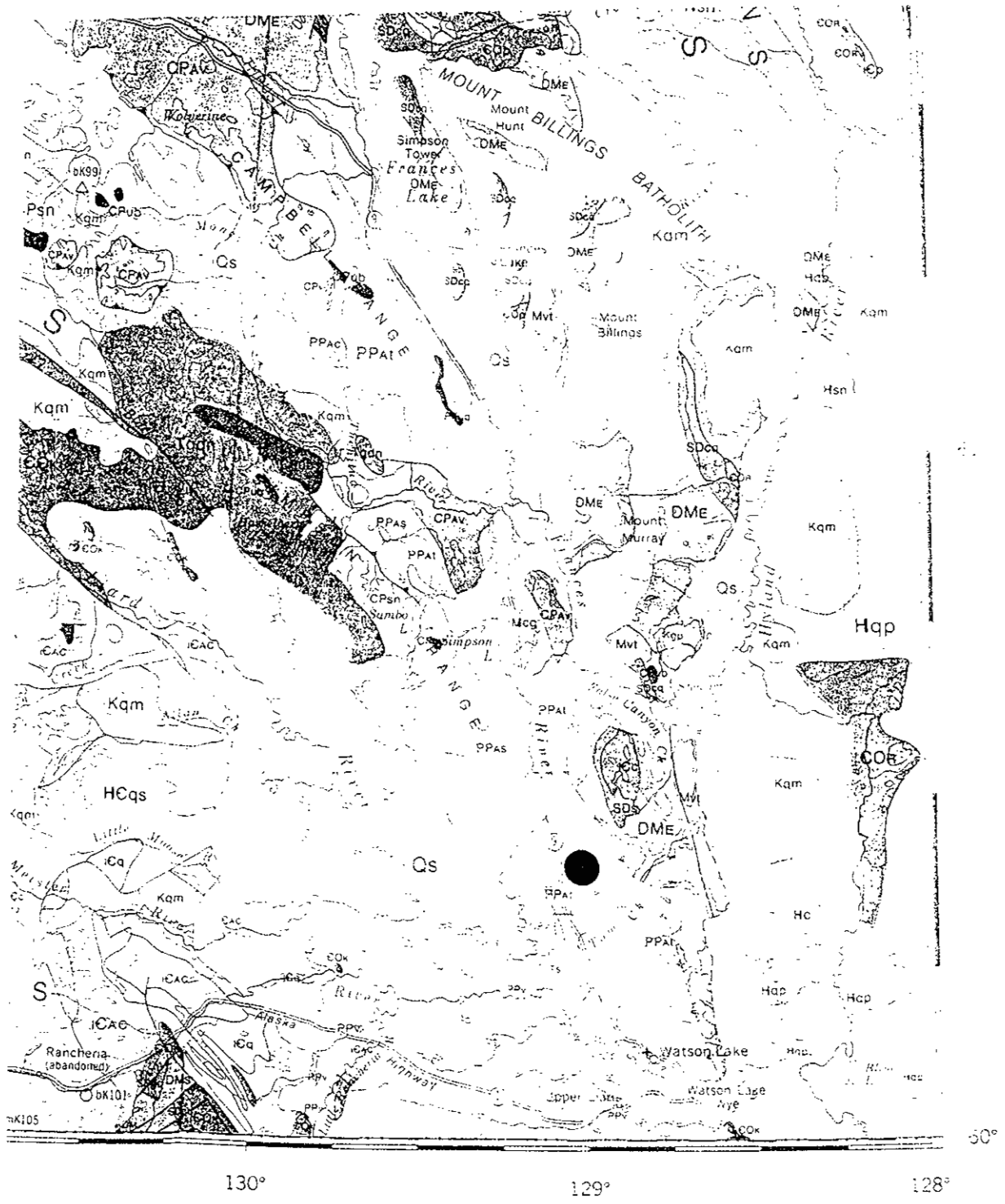
Lorraine Godwin, geophysicist for Gamah International Limited, was overall project manager and head of the geophysical and geological surveys. Assisting in both the geophysical and geological surveys were Mr. Kurt Breede of Toronto, Ontario, Mr. Jocelain Valade of Sudbury, Ontario, Miss Helen Harper of Toronto, Ontario, and Mr. Greg Hounsell of Kingston, Ontario. Mr. Johnathan Stockman and Mr. Richard Harder, both of Watson Lake, Yukon, assisted in the linecutting, blazing and flagging of the JAY claims. Mr. George Millen, also of Watson Lake, Yukon, provided expediting and support services.

Analysis of geochemical soil and rock samples were performed by Bondar-Clegg & Company Limited of North Vancouver, British Columbia.

*Refer to Section 11.0 for a complete summary of all personnel and contractors employed during this period.*

## 6.0 GEOLOGY

The 1:1,000,000 scale Macmillan River (1398A) geological map published in 1980 by the GSC (Gabrielse, Tempelman-Kluit, Blusson, Campbell) shows that the contact between Mississippian bioclastic and massive limestones (with interbedded polymict conglomerates, argillite, slate, chert bands, tuffs and other volcanics, sandy and cherty limestones and greywackes, all of Gabrielse's unit 9b), and the more easterly unit 7 Devonian or Mississippian chert pebble conglomerates, carbonaceous slate, quartzite, greywacke, siltstone and sandstone, is faulted



130° 129° 128° 50°



Figure 5  
 Geological Map  
 1:1,000,000

---

● JAY Claims Area

---

GAMAH INTERNATIONAL LIMITED

(Figure 5). Also, noted by Dr. Mann, "it appears to be the southeastern extension of the Campbell thrust, west being allochthonous, east being autochthonous" (Mann, 1996).

In the 1982 assessment done by David Arscott on behalf of Kerr-Addison, results showed that whole rock (outcrop and float) geochemical anomalies occurred in the northeastern portion of the JAY claims. The 1965/6 Gabrielse geological map shows lead, zinc, and silver occurrences recorded approximately 10 km to the northeast of the claims, in Cambrian to Ordovician carbonates and argillites.

## **7.0 SURVEYS**

### **7.1 GEOCHEMICAL SURVEY - METHODOLOGY**

A total of 44 soil and 5 rock samples were collected over the entire 12 grid lines (see Appendix A for sample locations). The samples were taken based on high magnetometer readings or crossover points measured by the VLF. These samples were then sent to Bondar-Clegg and Company in North Vancouver where they were analyzed for copper, gold and zinc, with a few of the soil and all of the rock samples being analyzed for arsenic as well (see Appendix A for assay certificates).

Applying a kriging method, the assay results were then contoured using the Surfer software package "Surfer16". The results have been broken down into two grids - one for the northern edge of JAY and one for the southern edge of JAY.

### **7.2 GEOCHEMICAL SURVEY - RESULTS**

As seen from the contour plots of the northern portion of JAY in Appendix A, the arsenic contour exhibits anomalous areas around 3500 W, 7500 N and 2500 W, 6750 N. Copper shows a high in the 2500 W, 7500 N area. The gold contour has anomalous areas around 3500 W, 5750 N and 2500 W, 7400 N, while zinc demonstrates a high at around 3200 W, 8000 N.

The southern portion of JAY shows anomalous areas for copper around 3500 W, 800 N, for gold at 3550 W, 0 N, and for zinc at 3950 W, 350 N and 4900 W, 900 N.

As most of these anomalous areas occur where only one sample was taken, these results are unconvincing and cannot be relied upon as substantial data until further sampling takes place.

### **7.1 MAGNETOMETER SURVEY - METHODOLOGY**

This survey employed a Scintrex MP-2 proton precession magnetometer<sup>1</sup>. This instrument utilizes the phenomenon of nuclear magnetic resonance to measure the flux density of the total magnetic field.

Readings were taken (in triplicate) along all of the flagged lines, at 25 m intervals. No base station was used, however, where possible, repeat readings were taken at previously surveyed stations at a later time to check for diurnal fluctuations. The intent of this survey was not to provide absolute data, but rather to give a general idea of the magnetic environment of the JAY claims.

Magnetic values were contoured using a Kriging method with the Golden Software "Surfer 16" package.

# **GAMAH INTERNATIONAL LIMITED**

---

## **7.2 MAGNETOMETER SURVEY - RESULTS**

The magnetic contours for the northern and southern grids on JAY do not demonstrate any information of any value and thus are inconclusive at this time.

## **7.3 ELECTROMAGNETIC SURVEY - METHODOLOGY**

A Geonics EM16 Very Low Frequency<sup>2</sup> (VLF) receiver was used for this survey.

As with the magnetic survey, readings for the electromagnetic survey were taken at every 25 m station along the same lines. For the purposes of this survey the signal from an antenna in Seattle, Washington (NLK - 24.8 kHz) was used. This emitted a fairly strong signal which was easy to hear.

The electromagnetic profiles were plotted using the Microsoft Excel software package.

## **7.4 ELECTROMAGNETIC SURVEY - RESULTS**

The electromagnetic profiles can be found in Appendix C.

Again, because of the scarcity of the grid, the electromagnetic results cannot convey much information about the make-up of the JAY claims and should only be used as a reference for future geophysical surveys.

## **8.0 CONCLUSIONS AND RECOMMENDATIONS**

The results from the exploration program conducted on the JAY claims is inconclusive. Further work needs to be done on said claims in order to determine the existence, location and extent of the anomalies identified in Arscott's survey.

A detailed grid should be established, with one baseline running north-south, and the grid lines running east-west at about 500 m intervals. If time permits, or results warrant, then closer line spacing fill-in should be completed (certainly 200 m intervals and perhaps 100 m intervals, time allowing). It is believed that the portion of the claims which lies to the west of the fault has thick overburden and therefore EM surveying would provide little information in this area. However, east of the fault, it is thought that the overburden is not as thick and EM should be conducted in this area.

## **9.0 FOOTNOTES**

### **1 Proton Precession Magnetometer:**

The MP-2 Sensor consists of a chamber filled with a proton rich fluid such as kerosene enclosed within two wire wound coils. A magnetic field is set up when a current is passed through these coils for a short duration of time. This field aligns the spinning protons and when the polarizing current is abruptly switched off, the protons begin to precess around the earth's magnetic field and eventually realign with it. The precession induces a small, exponentially decaying, AC signal in the sensor coils whose frequency is proportional to the flux of the ambient magnetic field (23.4874 gammas/Hz). The frequency is then measured by the signal processing electronics of the MP-2, converted to a gamma value and presented on the digital display.

# **GAMAH INTERNATIONAL LIMITED**

---

## **2 EM16 VLF**

This receiver measures the VLF radiation signals, in the range of 15 - 25 kHz, from grounded vertical antennae which are generally employed for marine navigation. A worldwide network of high-power VLF stations exist over the Earth's surface so that at least two stations can be detected from anywhere on the Earth.

The VLF receiver measures the in phase component (tilt angle) and quadrature component (component 90° ahead of the in phase component) of the polarization ellipsoid produced as an outcome of a primary electromagnetic field being emitted from the transmitting antenna which in turn generates a secondary electromagnetic field in whatever is buried in the ground. The resultant sum of these two fields is the polarization ellipse which represents the total field. Within the VLF are two mutually perpendicular coils wound on ferrite cores. The coil whose axis is normally vertical is first held in a horizontal position and rotated in azimuth to find a minimum. This finds the direction to the transmitting station. The receiver is then brought up 90° vertically and is now in the plane containing the polarization ellipse. The instrument is then tilted until a minimum is detected. The clinometer of the instrument is used to record the tilt angle. Fine tuning with the use of the quadrature knob produces an even more obvious minimum and gives the quadrature reading.

# GAMAH INTERNATIONAL LIMITED

---

## III. STATEMENTS OF QUALIFICATIONS

I, Lorraine Godwin, do hereby certify that:

1. I will graduate from York University with a B. Sc. Honours degree in Geophysics (graduation date: June 1997).
2. I have practiced in my profession since 1995.
3. I am a member in good standing of the Prospectors and Developers Association of Canada and the Canadian Institute of Mining, Metallurgy and Petroleum.
4. I have no vested interest in these properties or in Minfocus International Inc., nor do I expect to receive any such interest.
5. I supervised the surveys described in this report and endorse the opinions and conclusions contained herein based on field examination and review of analytical results.



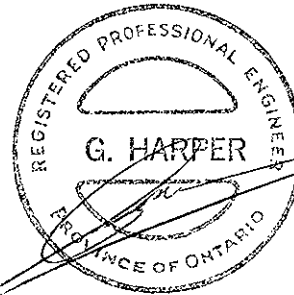
---

LORRAINE GODWIN, Geophysicist  
Toronto, Ontario  
December 1996

# GAMAH INTERNATIONAL LIMITED

I, Gerald Harper, President of Gamah International Limited, do hereby certify that:

1. I am a graduate of the University of London with a B. Sc. degree in Geology and Chemistry in 1965, a B. Sc. Honours degree in Geology in 1966 and a Ph. D. in Geology in 1970.
2. I have practiced my profession continuously since 1966.
3. I am a member in good standing of the Association of Professional Engineers of Ontario, the Society of Economic Geologists, the Canadian Institute of Mining, the Society for Exploration, Mining and Metallurgy, the Geological Society of South Africa, a Fellow of the Geological Society and a member of the Mineral Economics and Management Society.
4. I am the President of Minfocus International Inc., may be deemed to be its promoter and have instigated the staking by Minfocus International Inc.. I am also the President of Gamah International Limited, an independent mining and geological consulting and contracting firm.
5. I directed and supervised the program of work described in this report and endorse the opinions and conclusions presented in this report on the basis of my field examinations in July and September 1996 and review of data compiled by me during those field examinations.



---

GERALD HARPER, Ph. D., P. Eng.  
Toronto, Ontario  
December 1996

# GAMAH INTERNATIONAL LIMITED

## 11.0 PERSONNEL AND CONTRACTORS EMPLOYED

NAME	AFFILIATION	ADDRESS	FUNCTION	PERIOD
Gerald Harper	Minifocus International Inc.	Toronto	Overall Supervision	July 96 - Oct 96
Lorraine Godwin	Gamah International Ltd	Toronto	Project Manager	July 96 - Oct 96
Deidre Collins	Gamah International Ltd	Toronto	Office support	Sept 96 - Oct 96
Kurt Breede	Gamah International Ltd	Toronto	Field assistant	July 96 - Sept 96
Greg Hounsell	Gamah International Ltd	Kingston	Field assistant	July 96 - Aug 96
Jocelain Valade	Gamah International Ltd	Sudbury	Field assistant	July 96 - Aug 96
Michel Mann	Gamah International Ltd	Calgary	Field assistant	July 96
Helen Harper	Gamah International Ltd	Toronto	Field assistant	July 96 - Aug 96
George Millen	Minifocus International Inc.	Watson Lake	Camp support/expediting	July 96 - Oct 96
Joseph Arengi	Gamah International Ltd	Victoria	Geologist	July 96 - Oct 96
Johnnothan Stockman	Gamah International Ltd	Watson Lake	Line cutting	July 96 - Aug 96
Richard Harder	Gamah International Ltd	Watson Lake	Line cutting	July 96 - Aug 96
	Bondar-Clegg and Company	North Vancouver	Geochemical assaying	July 96 - Sept 96
	TransNorth Helicopters	Ross River	Field transportation	Aug 96
	Kluane Helicopters	Finlayson Lake	Field transportation	July 96

# GAMAH INTERNATIONAL LIMITED

## 12.0 STATEMENT OF COSTS

ITEM	DETAILS	AMOUNT
Accommodation	Gateway Motel, field camp	\$632.40
Analyses	Bondar-Clegg and Company	\$454.73
Communications	phone calls, faxes, etc.	\$179.13
Courier Postage	shipping of information	\$181.82
Food	camp supplies	\$615.68
Personnel - Field	linecutting, geophysical, geochemical and geological surveys, camp construction and miscellaneous supplies	\$6,055.30
Personnel - Office	time for office support	\$1,197.00
Rentals	vehicles, equipment and hotel	\$1,475.35
Travel	air and ground transportation to and from Watson Lake and claims	\$376.00
	<b>TOTAL</b>	<b>\$11,167.41</b>

The above costs are as accurate as possible and represent the true value of the work carried out during the 1996 exploration program as shown above and described in this report. Detailed records for back-up to these amounts are available at the office of Minfocus International Incorporated, Suite 707, 1243 Islington Avenue, Toronto, Ontario, M8X 1Y9.



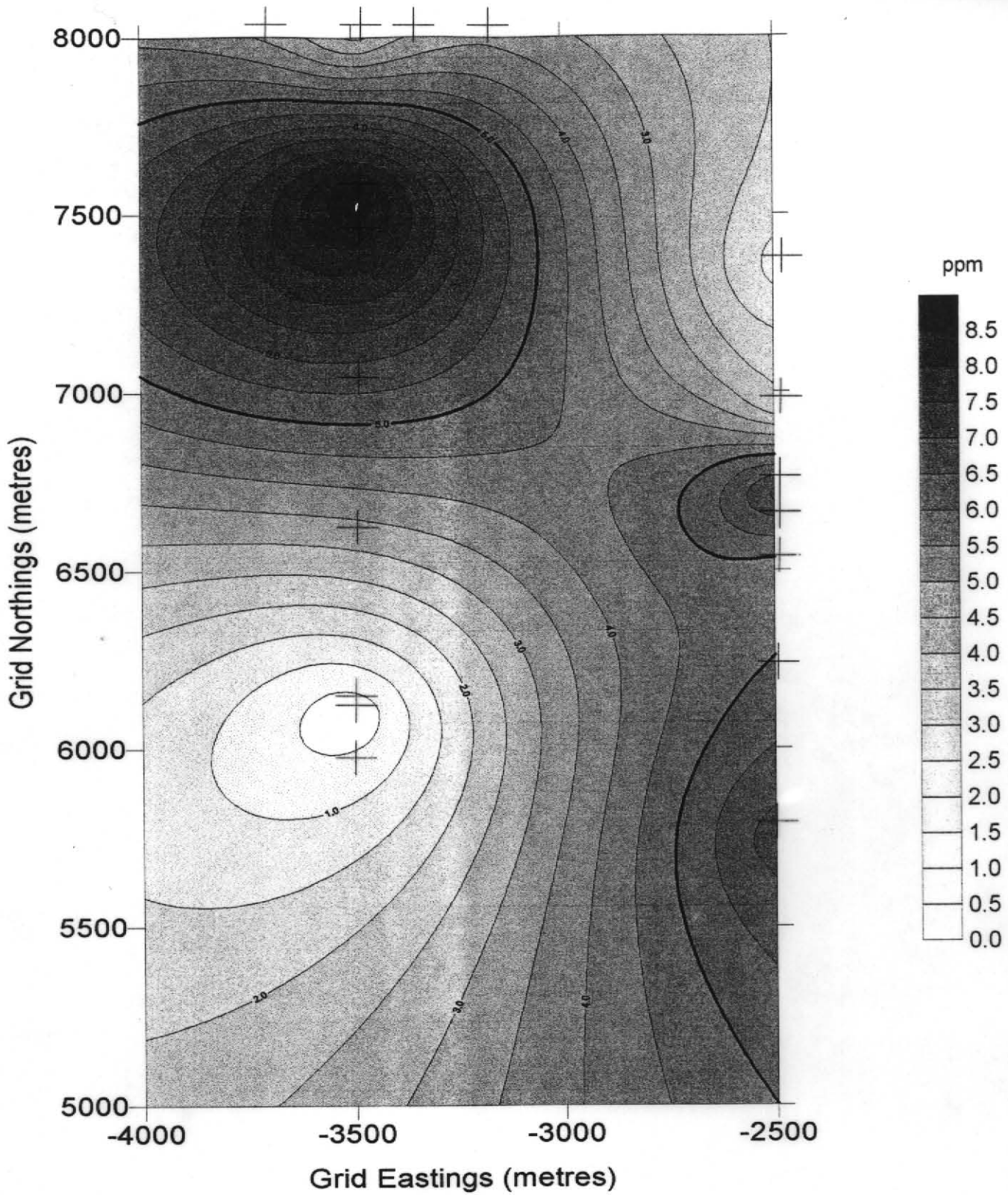
GERALD HARPER, PH.D., P. ENG

## 13.0 REFERENCES

- Arcscott, D. (1982), *Kent Project 1982 Program Assessment Report*.  
Private Report for Kerr Addison Mines Ltd.
- Danielson, V. (1991), *Yukon Welcomes Start of Operations at Lead-Zinc Mine*.  
Northern Miner 77 No. 20, 1-2 (22 Jul 91).
- Davison, S. (1991), *Falling Prices Can't Stop Sa Dena Hes Opening*.  
Northern Miner 77 No. 31, 1-2 (7 Oct 91).
- Erdmer, P. (1987), *Blueschist and Eclogite in Mylonitic Allochthons, Ross River and Watson Lake Areas, Southeastern Yukon*.  
CJES 24, 1439-1449.
- Gabrielse, H., Tempelman-Kluit, D.J., Blusson, S.L. and Campbell, R.B. (1980), *MacMillan River*.  
GSC Map 1398A, sheets 105, 115, 1:1,000,000 scale.
- Godwin, L. (1996), *Summary Report on Claims of Minfocus International Incorporated in the Watson and Wolverine Lake Areas of Yukon Territory*.  
Private Report for Minfocus International Inc., 50pp.
- Harper, G. (1996), *Report on Geophysical Surveys and Diamond Drilling on GMS Group of Claims, Watson Lake Mining Division, NTS 105/A2, 105/A6 and 105/A7, Yukon Territory*.  
Private Report for Minfocus International Inc., 23 pp.
- Mann, A.G. (1995), *Preliminary Geological Report on Watson and Finlayson Lake Exploration Project in Yukon Territory for Minfocus International Inc.*  
Private Report for Minfocus International Inc., 24pp.
- Mann, A.G. (1996), *Geological Report on Watson Lake Exploration Project in Yukon Territory*.  
Private Report for Minfocus International Inc., 15pp.
- Wilson, G.C. (1995), *Bibliography of the Wolverine Complex of the Southern Yukon and Northern B.C.; The Campbell Range: Finlayson Lake and Watson Lake; and the Kudz Ze Kayah and Sa Dene Hes (Mount Hundere) Deposits*.  
Private Report for Minfocus International Inc.

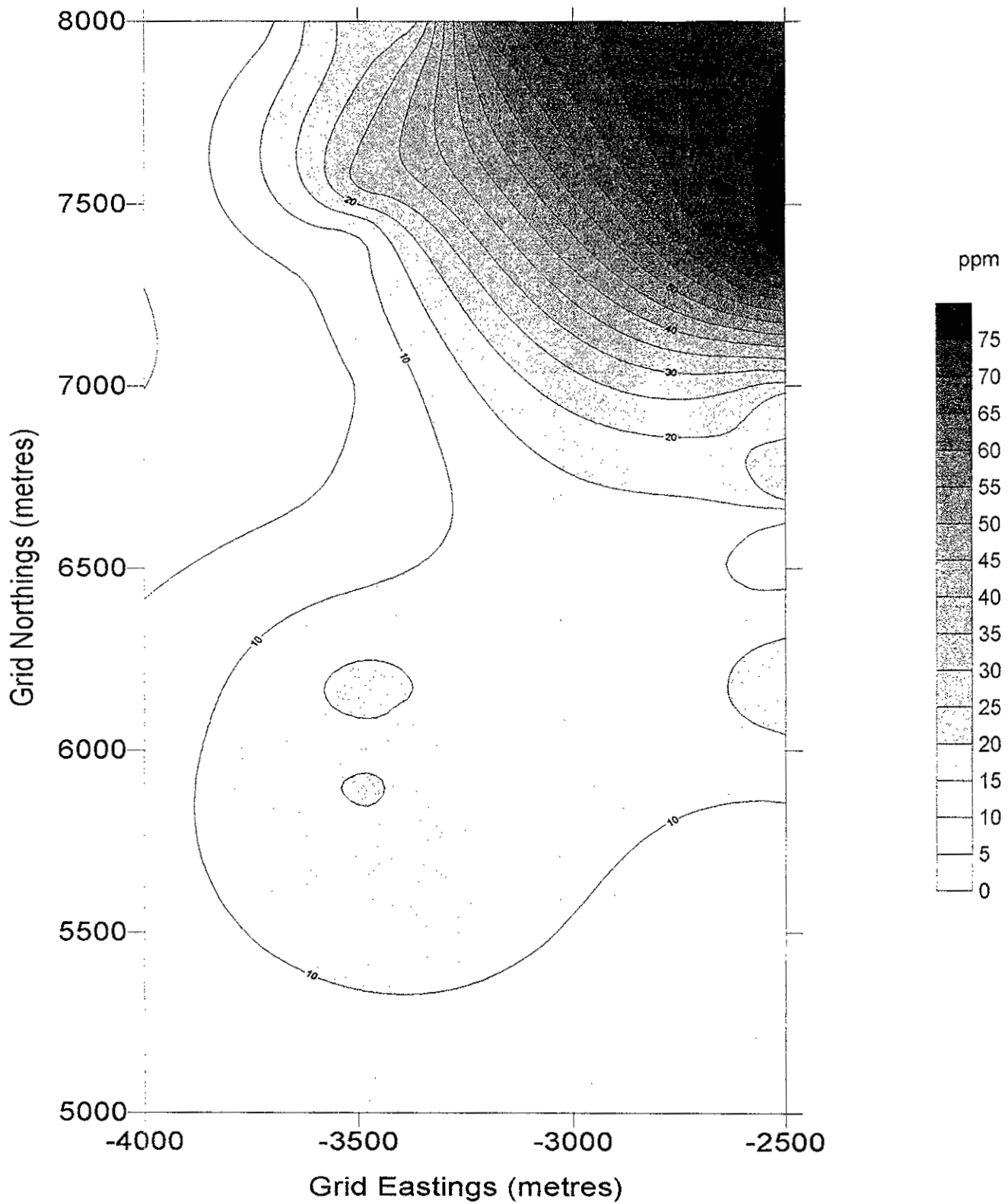
APPENDIX A

GEOCHEMISTRY



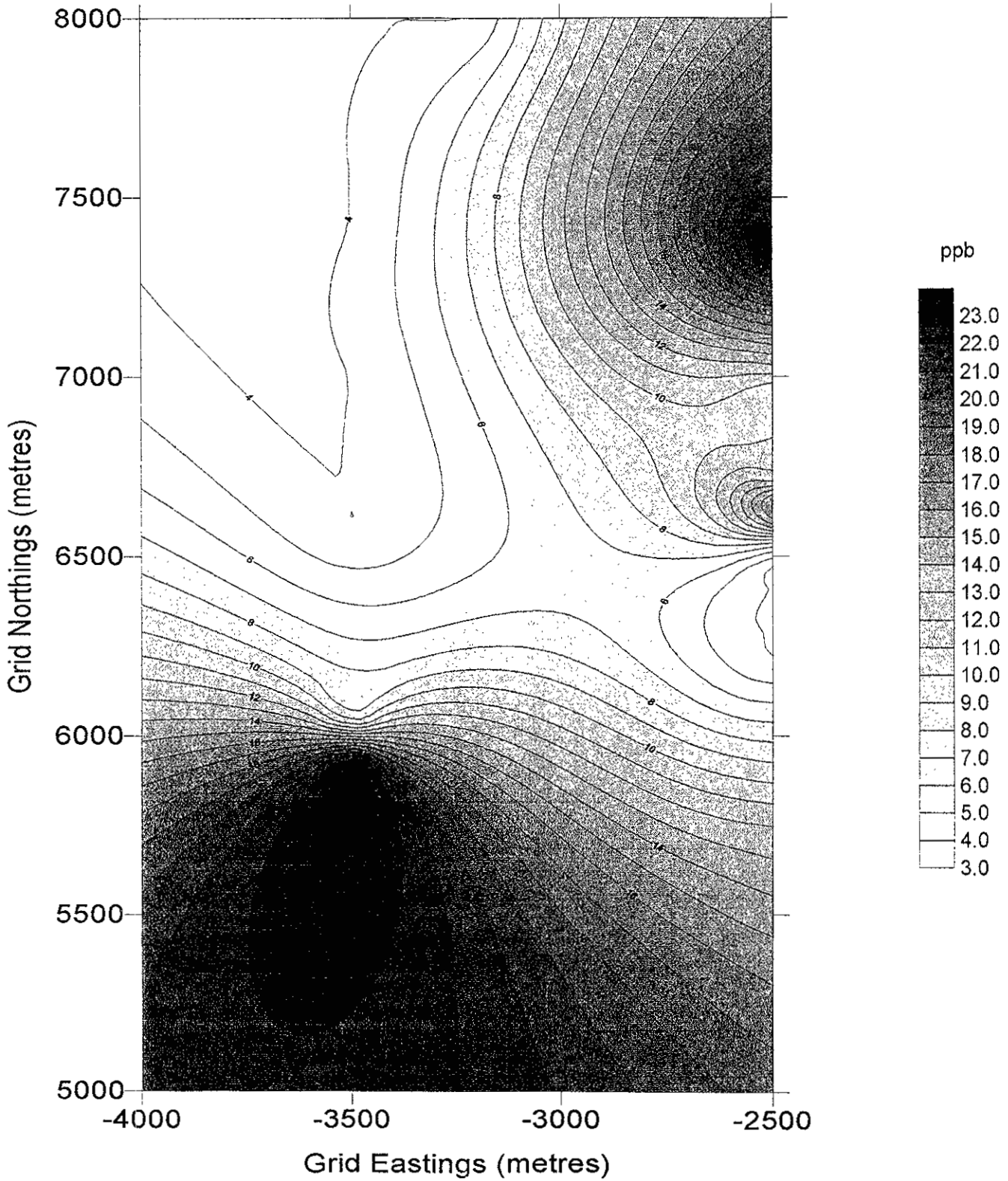
GAMAH INTERNATIONAL LIMITED  
 ARSENIC GEOCHEMICAL CONTOURS OF JAY CLAIMS (NORTH END)  
 Kriged Values  
 Watson Lake Area, Yukon Territory  
 + Soil Sample Locations

Contours



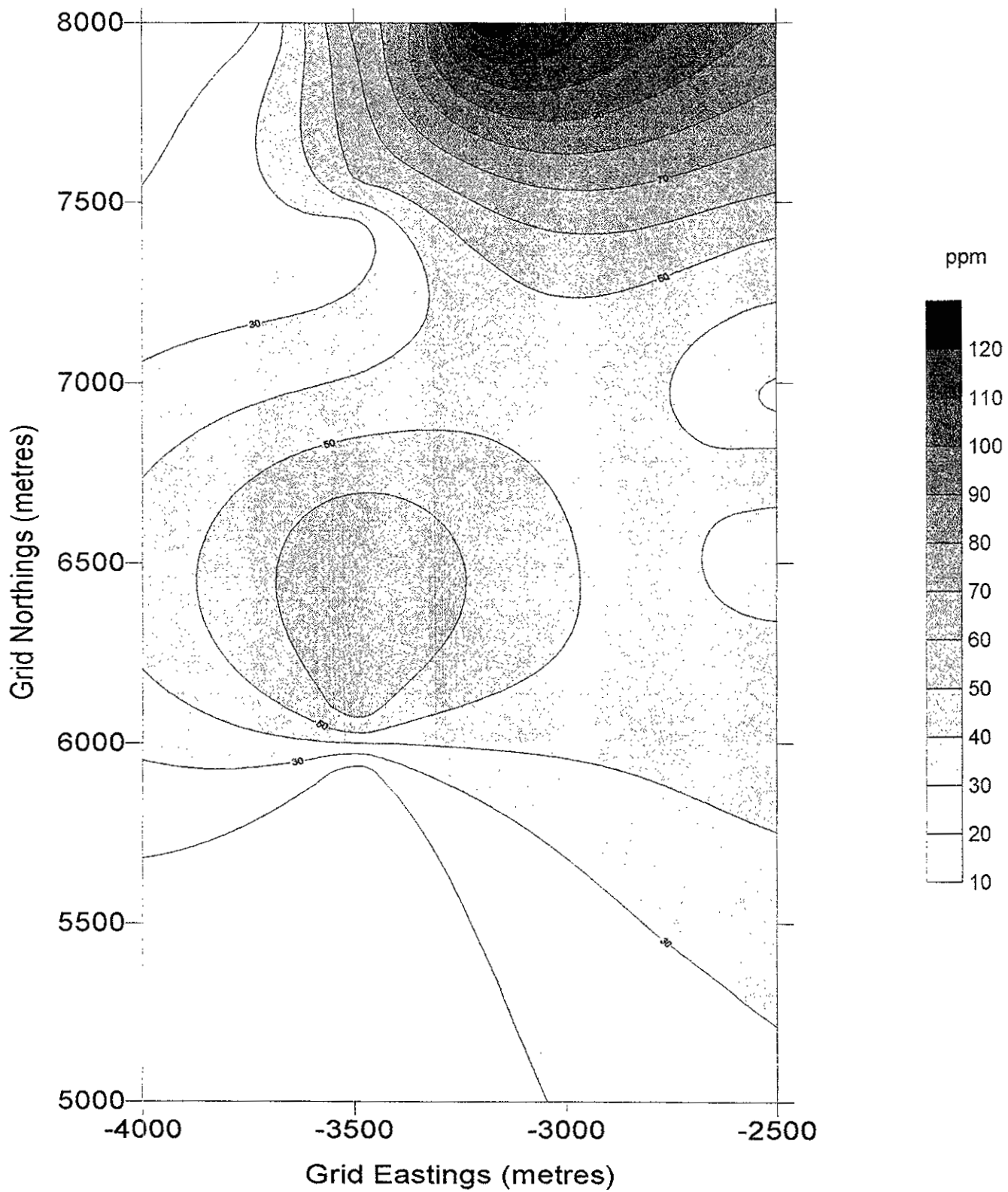
GAMAH INTERNATIONAL LIMITED  
 COPPER GEOCHEMICAL CONTOURS OF JAY CLAIMS (NORTH END)  
 Kriged Values  
 Watson Lake Area, Yukon Territory

/// Contours



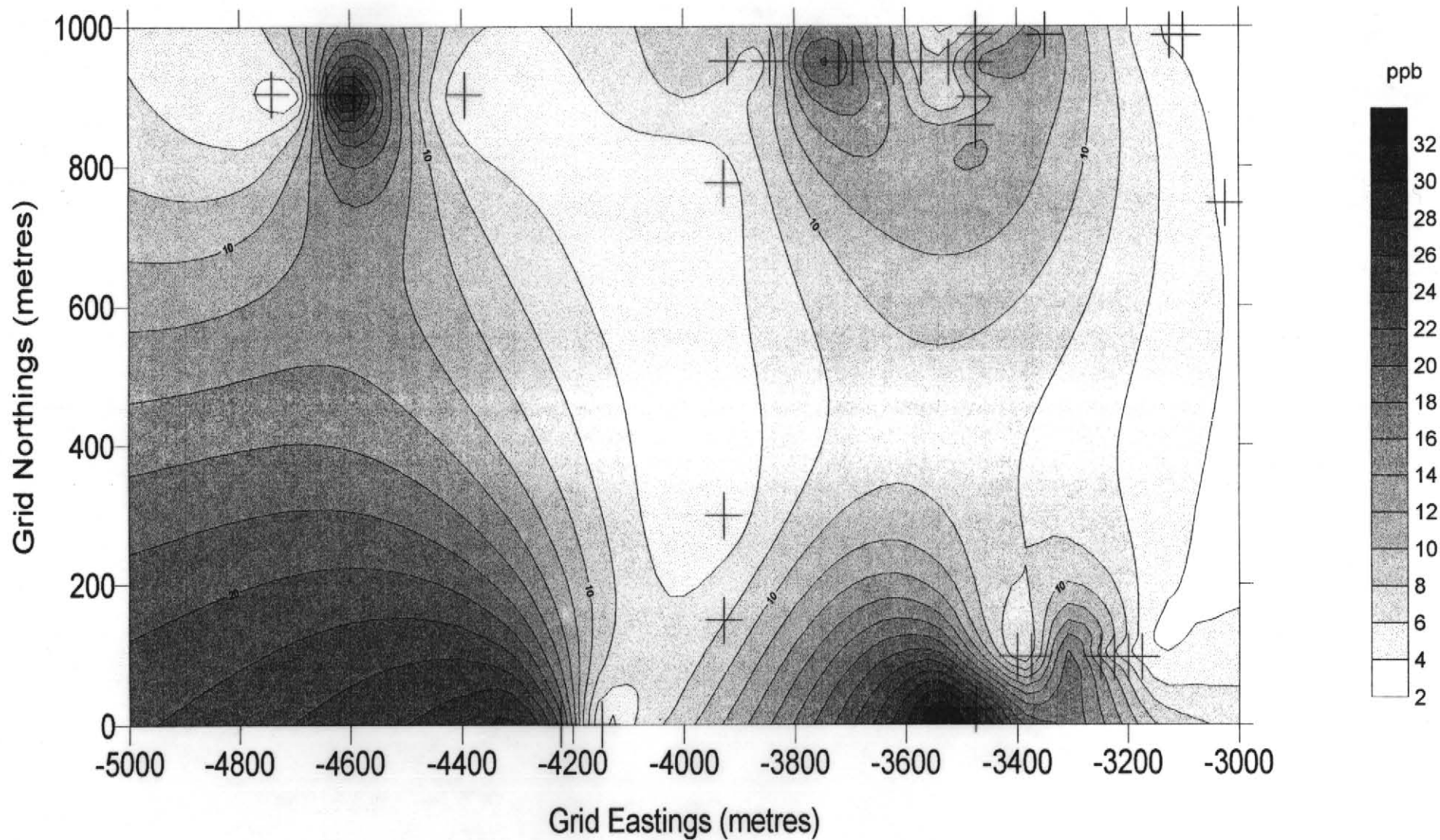
GAMAH INTERNATIONAL LIMITED  
 GOLD GEOCHEMICAL CONTOURS OF JAY CLAIMS (NORTH END)  
 Kriged Values  
 Watson Lake Area, Yukon Territory

Contours



GAMAH INTERNATIONAL LIMITED  
 ZINC GEOCHEMICAL CONTOURS OF JAY CLAIMS (NORTH END)  
 Kriged Values  
 Watson Lake Area, Yukon Territory

Contours



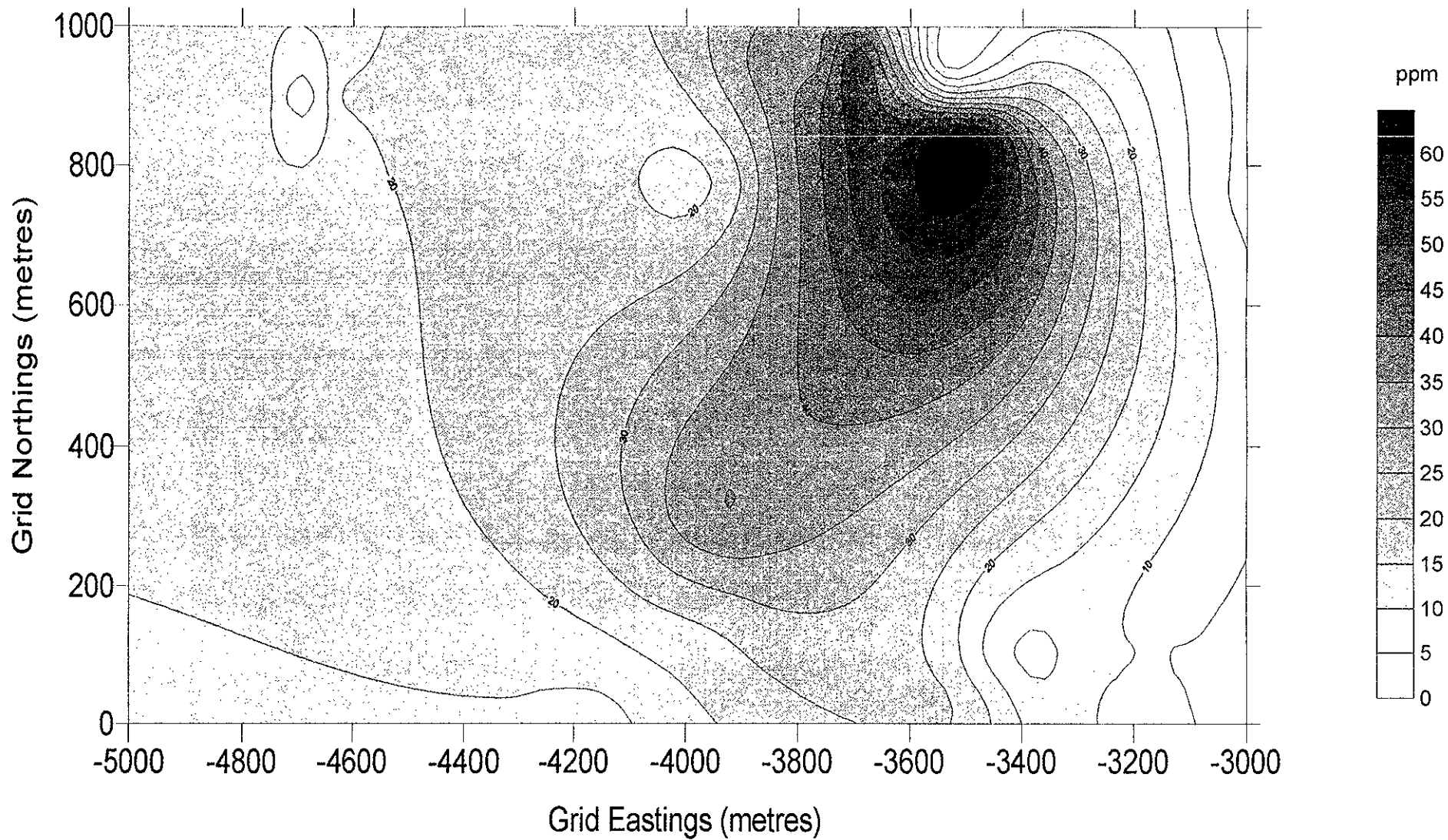
GAMAH INTERNATIONAL LIMITED  
 GOLD GEOCHEMICAL CONTOURS OF JAY CLAIM (SOUTH END)  
 Kriged Values  
 Watson Lake Area, Yukon Territory



Soil Sample Locations

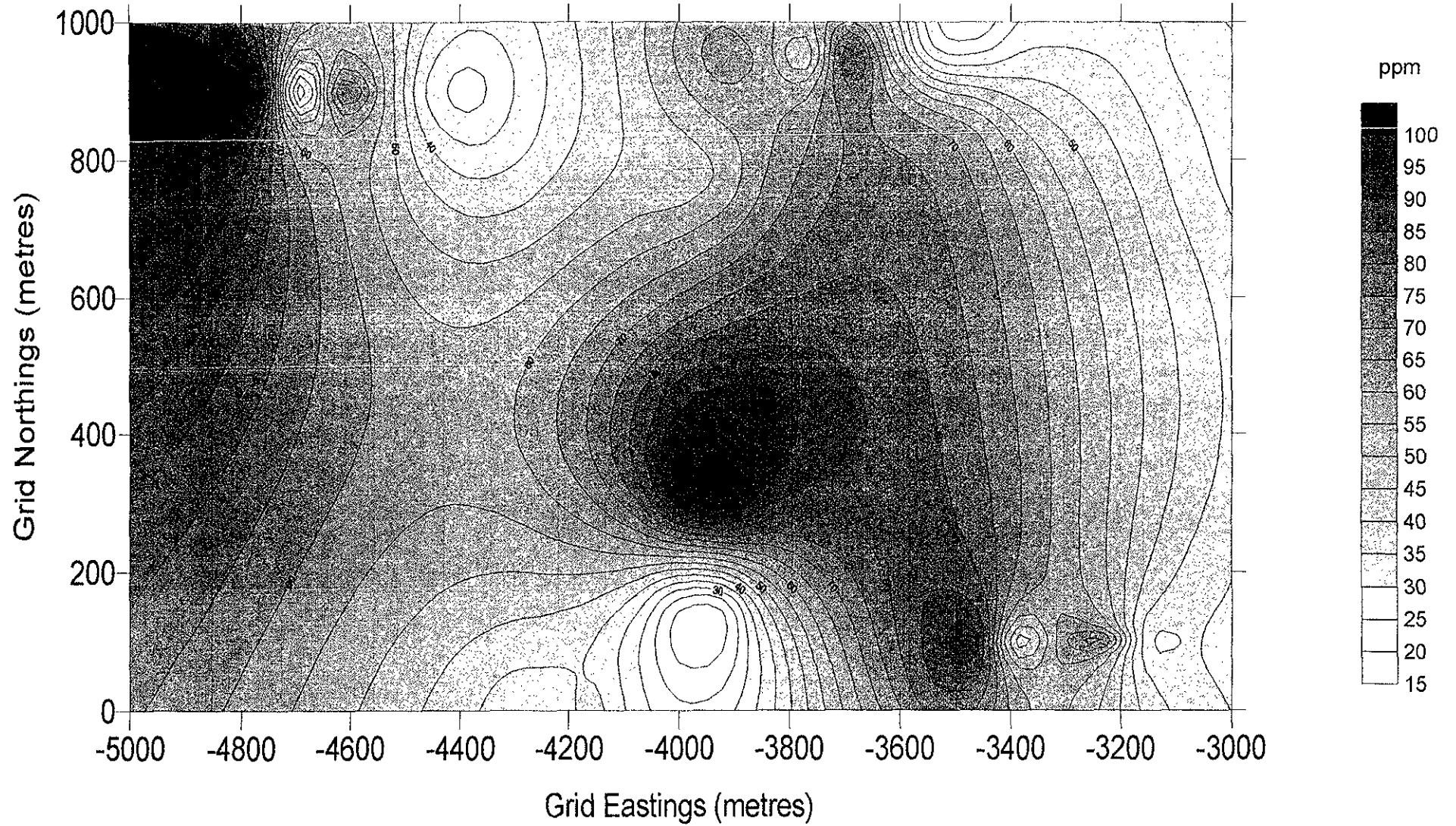


Contours



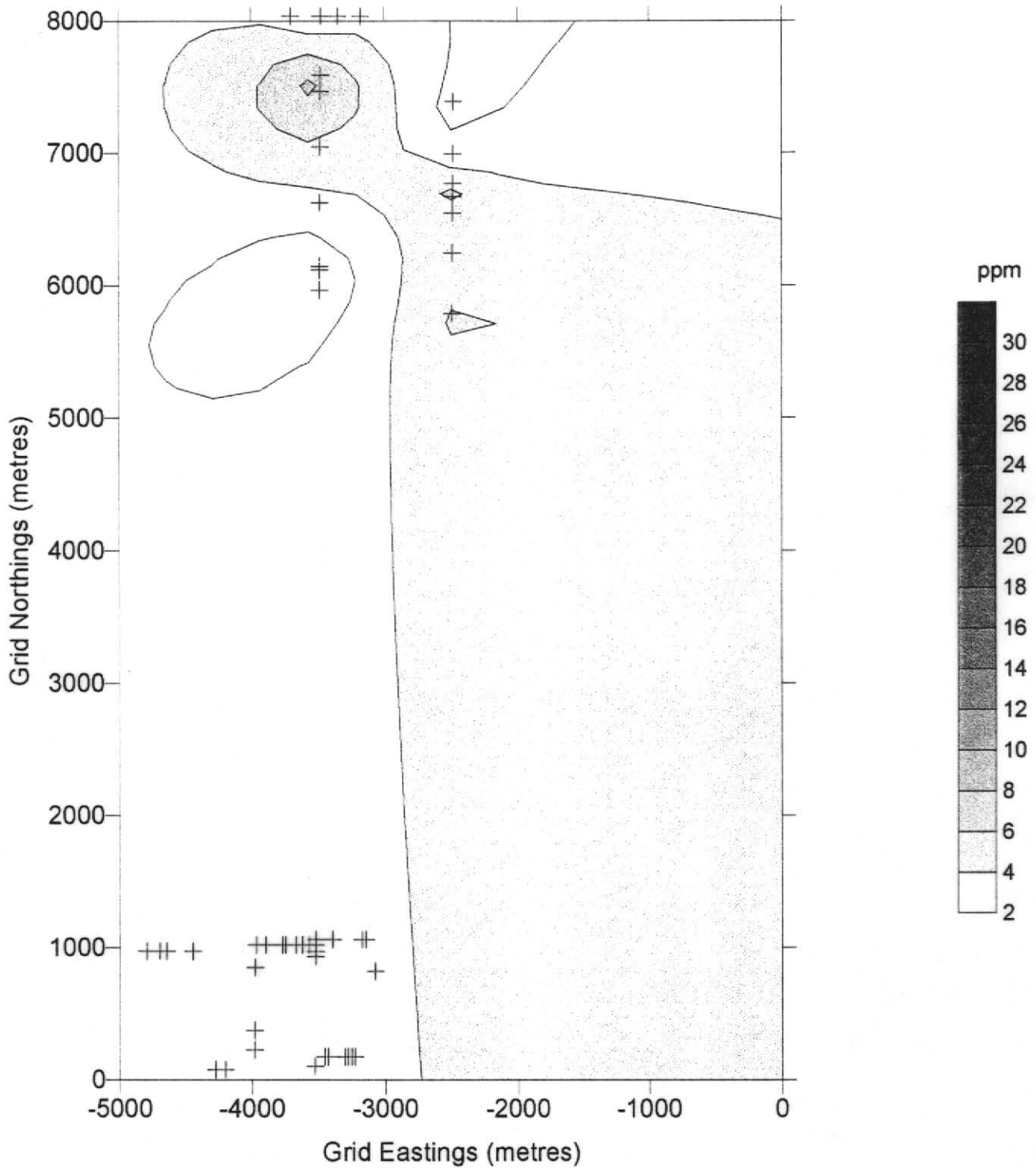
GAMAH INTERNATIONAL LIMITED  
 COPPER GEOCHEMICAL CONTOURS OF JAY CLAIM (SOUTH END)  
 Kriged Values  
 Watson Lake Area, Yukon Territory

--- Contours



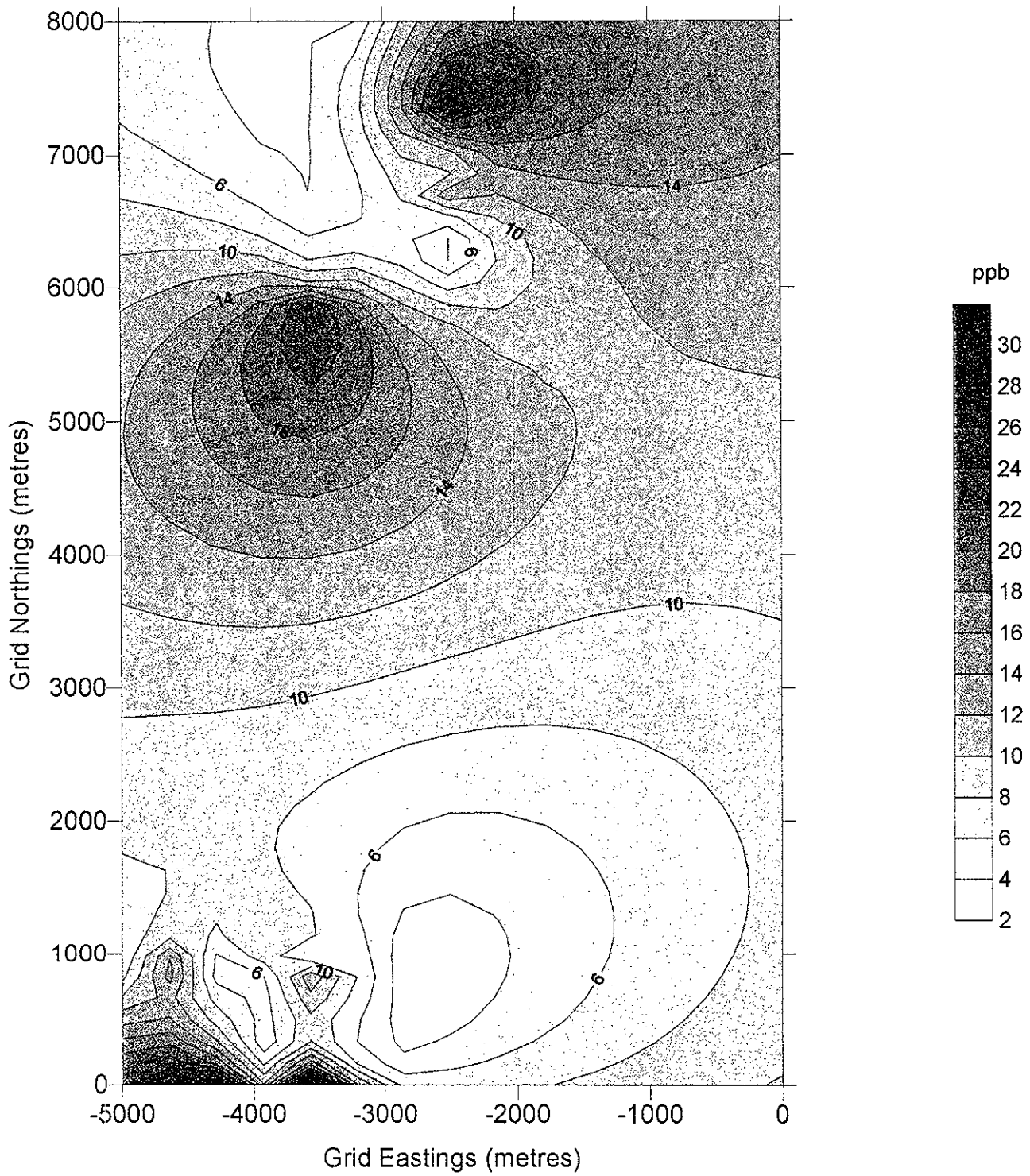
GAMAH INTERNATIONAL LIMITED  
 ZINC GEOCHEMICAL CONTOURS OF JAY CLAIM (SOUTH END)  
 Kriged Values  
 Watson Lake Area, Yukon Territory

— Contours



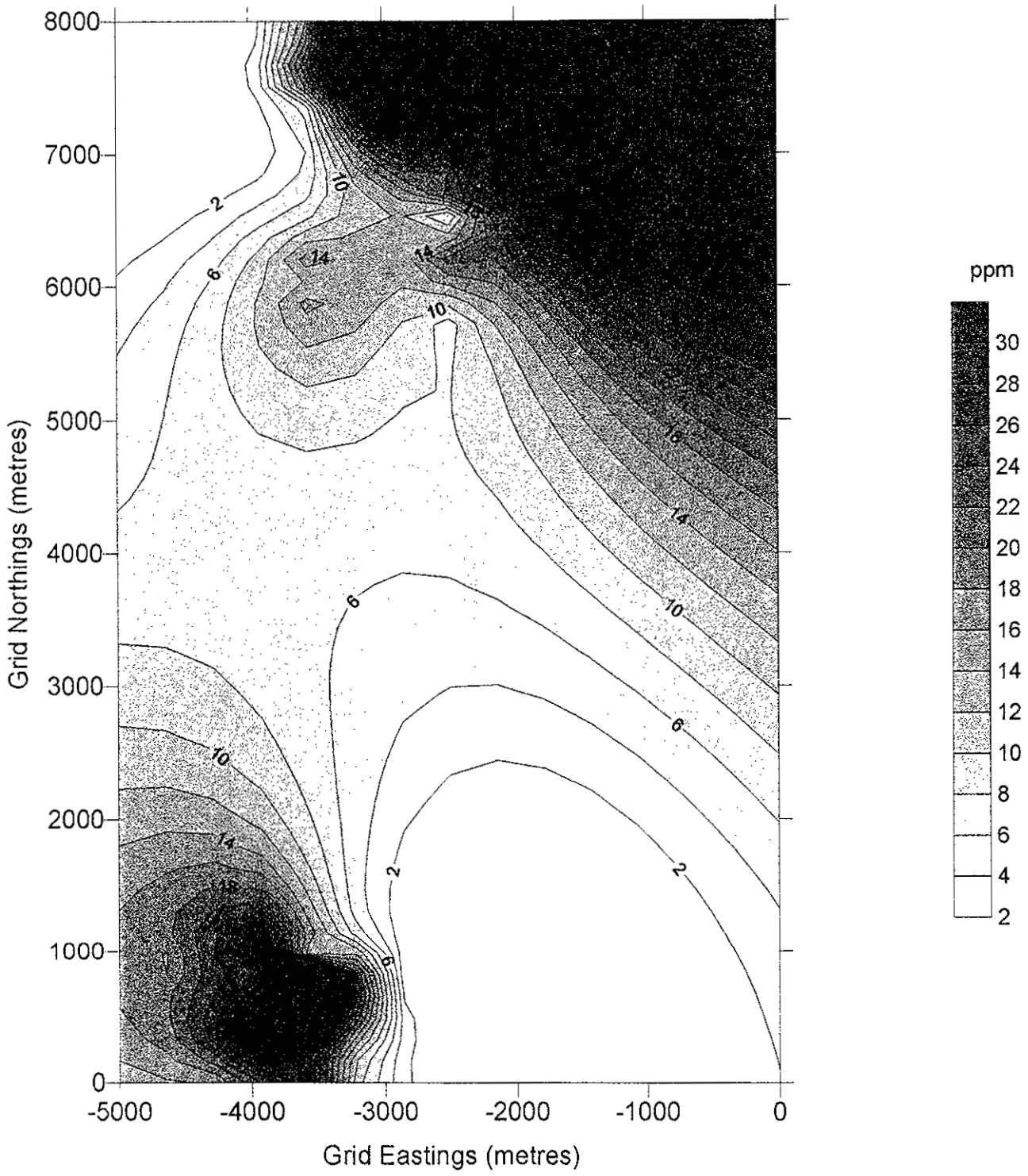
GAMAH INTERNATIONAL LIMITED  
 ARSENIC GEOCHEMICAL CONTOURS OF JAY CLAIMS  
 Kriged Values  
 Watson Lake Area, Yukon Territory

+ Soil Sample Locations      // Contours



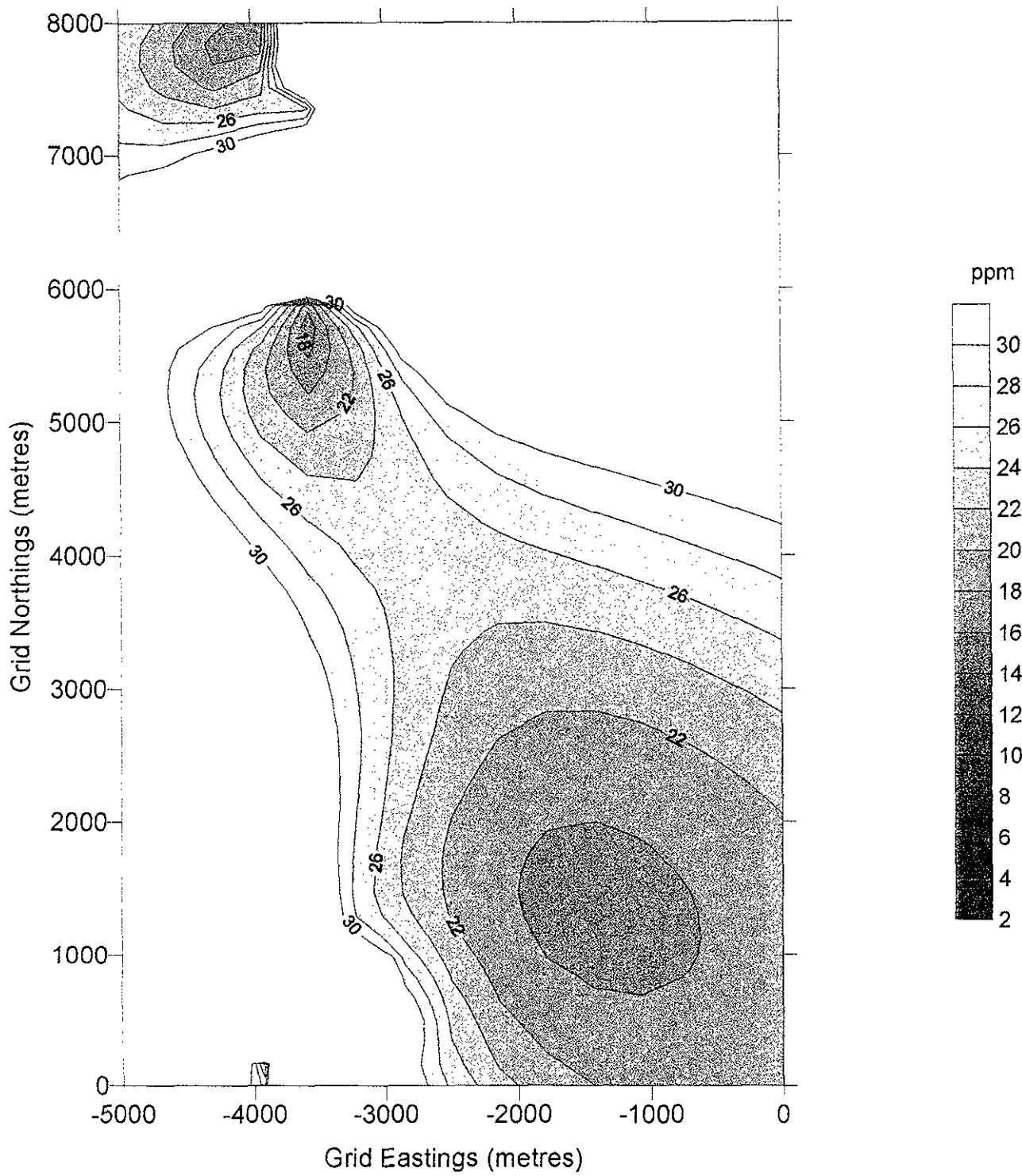
GAMAH INTERNATIONAL LIMITED  
 GOLD GEOCHEMICAL CONTOURS OF JAY CLAIMS  
 Kriged Values  
 Watson Lake Area, Yukon Territory

Contours



GAMAH INTERNATIONAL LIMITED  
 COPPER GEOCHEMICAL CONTOURS OF JAY CLAIMS  
 Kriged Values  
 Watson Lake Area, Yukon Territory

Contours



GAMAH INTERNATIONAL LIMITED  
 ZINC GEOCHEMICAL CONTOURS OF JAY CLAIMS  
 Kriged Values  
 Watson Lake Area, Yukon Territory

Contours

JAY Geochemical Results

Grid Easting	Grid Northing	Au (ppb)	Cu (ppm)	Zn (ppm)	As (ppm)	Notes
-2500	7350	24	78	46	1.3	soil
-2500	6950	9	16	27	2.7	soil
-2500	6725	11	26	49	6.7	soil
-2500	6625	18	8	36	5.8	soil
-2500	6500	4	8	31	4.7	soil
-2500	6200	4	19	47	5.1	soil
-2500	5750	12	7	40	6.3	soil
-3050	750	4	5	36		soil
-3125	990	4	8	33		soil
-3150	990	4	11	37		soil
-3200	100	4	6	38		soil
-3225	100	4	14	85		soil
-3250	100	24	9	43		soil
-3275	100	23	12	76		soil
-3375	990	15	15	37		soil
-3400	100	4	8	44		soil
-3425	100	6	8	92		soil
-3500	25	36	26	87		soil
-3500	860	15	71	69		soil
-3500	900	4	18	55		soil
-3500	950	21	9	34		soil
-3500	990	4	6	22		soil
-3500	5925	24	16	14		soil
-3500	6075	6	8	66		soil
-3500	6575	4	7	68		soil
-3500	7000	4	5	41		soil
-3500	7425	4	9	24		soil
-3550	950	6	8	40		soil
-3600	950	6	21	52		soil
-3650	950	24	58	79		soil
-3725	950	12	49	88		soil
-3725	8000	4	3	18		soil
-3750	950	23	39	48		soil
-3875	950	4	38	68		soil
-3950	950	11	30	67		soil
-3957	150	7	25	7		soil
-3957	300	4	41	108		soil
-3957	775	4	17	51		soil
-4175	0	4	12	44		soil
-4250	0	29	14	34		soil
-4425	900	4	22	25		soil
-4625	900	28	21	78		soil
-4675	900	4	5	17		soil
-4775	900	4	19	105		soil
-3200	8000	4	58	127	3.4	rock
-3375	8000	4	17	77	3	rock
-3500	6100	9	19	64	0.1	rock
-3500	7550	4	27	50	9	rock
-3500	8000	4	18	63	2.3	rock



# Bondar Clegg Inchcape Testing Services

## Geochemical Lab Report

REPORT: V96-01067.0 ( COMPLETE )

REFERENCE:

CLIENT: MINFOCUS INTERNATIONAL INC.

SUBMITTED BY: UNKNOWN

PROJECT: 95051 JAY

DATE PRINTED: 30-JUL-96

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au30 Gold	7	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
2	Cu Copper	7	1 PPM	HCL:HNO3 (3:1)	ATOMIC ABSORPTION
3	Zn Zinc	7	1 PPM	HCL:HNO3 (3:1)	ATOMIC ABSORPTION
4	As Arsenic	7	1.0 PPM	HCL:HNO3 (3:1)	HYDR. GEN/AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOIL	7	1 -80	7	DRY, SIEVE -80	7

REPORT COPIES TO: MR. G. HARPER

INVOICE TO: MR. G. HARPER



# Bondar Clegg Inchcape Testing Services

## Geochemical Lab Report

CLIENT: MINFOCUS INTERNATIONAL INC.

PROJECT: 95051 JAY

REPORT: V96-01067.0 ( COMPLETE )

DATE PRINTED: 30-JUL-96

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Cu PPM	Zn PPM	As PPM
S1 2500W 7350N		24	78	46	1.3
S1 2500W 6950N		9	16	27	2.7
S1 2500W 6725N		11	26	49	6.7
S1 2500W 6625N		18	8	36	5.8
S1 2500W 6500N		<5	8	31	4.7
S1 2500W 6200N		<5	19	47	5.1
S1 2500W 5750N		12	7	40	6.3



# Bondar Clegg

## Inchcape Testing Services

CLIENT: MINFOCUS INTERNATIONAL INC.  
REPORT: V96-01067.0 ( COMPLETE )

PROJECT: 95051 JAY  
DATE PRINTED: 30-JUL-96 PAGE 2

STANDARD NAME	ELEMENT UNITS	Au30 PPB	Cu PPM	Zn PPM	As PPM
BCC GEOCHEM STD 3		-	840	544	301.9
Number of Analyses		-	1	1	1
Mean Value		-	839.8	543.5	301.85
Standard Deviation		-	-	-	-
Accepted Value		-	820	500	310.0
ANALYTICAL BLANK		<5	<1	1	1.0
Number of Analyses		1	1	1	1
Mean Value		2.5	0.5	1.0	1.00
Standard Deviation		-	-	-	-
Accepted Value		5	1	1	0.4
Gannet Standard		189	-	-	-
Number of Analyses		1	-	-	-
Mean Value		189.3	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		206	-	-	-



# Bondar Clegg

## Inchcape Testing Services

# Geochemical Lab Report

REPORT: V96-01233.0 ( COMPLETE )

REFERENCE: 95051 BJ/JAY

CLIENT: MINFOCUS INTERNATIONAL INC.

SUBMITTED BY: UNKNOWN

PROJECT: 95051

DATE PRINTED: 13-AUG-96

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au30 Gold	78	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
2	Cu Copper	78	1 PPM	HCL:HNO3 (3:1)	ATOMIC ABSORPTION
3	Zn Zinc	78	1 PPM	HCL:HNO3 (3:1)	ATOMIC ABSORPTION
4	As Arsenic	5	1.0 PPM	HCL:HNO3 (3:1)	HYDR. GEN/AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOIL	73	1 -80	73	DRY, SIEVE -80	73
R ROCK	5	2 -150	5	CRUSH/SPLIT & PULV.	5

REPORT COPIES TO: MR. G. HARPER

INVOICE TO: MR. G. HARPER

**COPY**



# Bondar Clegg

## Inchcape Testing Services



# Geochemical Lab Report

CLIENT: MINIFOCUS INTERNATIONAL INC.

PROJECT: 95051

REPORT: V96-01233.0 ( COMPLETE )

DATE PRINTED: 13-AUG-96

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Cu PPM	Zn PPM	As PPM	SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Cu PPM	Zn PPM	As PPM
S1 600W 5000N		<5	17	80		S1 3225W 100N		<5	14	85	
S1 625W 5000N		<5	11	57		S1 3250W 100N		24	9	43	
S1 643W 6075N		6	27	93		S1 3275W 100N		23	12	76	
S1 643W 6150N		<5	30	98		S1 3375W 990N		15	15	37	
S1 675W 6000N		16	9	49		S1 3400W 100N		<5	8	44	
S1 850W 5000N		<5	8	50		S1 3425W 100N		6	8	92	
S1 900W 6000N		<5	4	33		S1 3500W 25N		36	26	87	
S1 1000W 6000N		<5	6	41		S1 3500W 860N		15	71	69	
S1 1100W 6000N		<5	10	77		S1 3500W 900N		<5	18	55	
S1 1100W 6457N		<5	8	56		S1 3500W 950N		21	9	34	
S1 1150W 7200N		<5	16	73		S1 3500W 990N		<5	6	22	
S1 1150W 7300N		<5	21	69		S1 3500W 5925N		24	16	14	
S1 1150W 7625N		<5	10	48		S1 3500W 6075N		6	8	66	
S1 1200W 5000N		6	10	45		S1 3500W 6575N		<5	7	68	
S1 1200W 6000N		<5	8	60		S1 3500W 7000N		<5	5	41	
S1 1325W 6000N		<5	10	71		S1 3500W 7425N		<5	9	24	
S1 1350W 7000N		6	6	33		S1 3550W 950N		6	8	40	
S1 1500W 6000N		11	19	78		S1 3600W 950N		6	21	52	
S1 1725W 7457N		6	21	49		S1 3650W 950N		24	58	79	
S1 1800W 7000N		9	42	95		S1 3725W 950N		12	49	88	
S1 1825W 7459N		<5	6	42		S1 3725W 8000N		<5	3	18	
S1 2000W 7457N		12	18	28		S1 3750W 950N		23	39	48	
S1 2050W 7000N		<5	60	73		S1 3875W 950N		<5	38	68	
S1 2075W 7000N		12	21	84		S1 3950W 950N		11	30	67	
S1 2200W 7000N		<5	11	53		S1 3957W 150N		7	25	7	
S1 2250W 7000N		12	5	30		S1 3957W 300N		<5	41	108	
S1 2350W 7000N		9	4	28		S1 3957W 775N		<5	17	51	
S1 2475W 6457N		<5	9	49		S1 4175W 0N		<5	12	44	
S1 2475W 7459N		6	8	55		S1 4250W 0N		29	14	34	
S1 2550W 7000N		40	15	73		S1 4425W 900N		<5	22	25	
S1 2550W 7457N		27	9	71		S1 4625W 900N		28	21	78	
S1 2600W 6457N		<5	9	49		S1 4675W 900N		<5	5	17	
S1 2625W 7000N		11	6	36		S1 4775W 900N		<5	19	105	
S1 2650W 6000N		<5	8	44		R2 3200W 8000N		<5	58	127	3.4
S1 2775W 7457N		6	16	54		R2 3375W 8000N		<5	17	77	3.0
S1 2925W 7457N		8	21	72		R2 3500W 6100N		9	19	64	<1.0
S1 3050W 750N		<5	5	36		R2 3500W 7550N		<5	27	50	9.0
S1 3125W 990N		<5	8	33		R2 3500W 8000N		<5	18	63	2.3
S1 3150W 990N		<5	11	37							
S1 3200W 100N		<5	6	38							



# Bondar Clegg

## Inchcape Testing Services

COPY

# Geochemical Lab Report

CLIENT: MINFOCUS INTERNATIONAL INC.  
REPORT: V96-01233.0 ( COMPLETE )

PROJECT: 95051  
DATE PRINTED: 13-AUG-96 PAGE 2

STANDARD NAME	ELEMENT UNITS	Au30 PPB	Cu PPM	Zn PPM	As PPM	STANDARD NAME	ELEMENT UNITS	Au30 PPB	Cu PPM	Zn PPM	As PPM
ANALYTICAL BLANK		<5	<1	2	<1.0	BCC GEOCHEM STD 5		-	97	81	9.0
ANALYTICAL BLANK		<5	<1	<1	<1.0	Number of Analyses		-	1	1	1
ANALYTICAL BLANK		<5	<1	<1	<1.0	Mean Value		-	97.3	80.9	9.00
ANALYTICAL BLANK		<5	-	-	-	Standard Deviation		-	-	-	-
Number of Analyses		4	3	3	3	Accepted Value		-	90	80	8.0
Mean Value		2.5	0.5	1.0	0.50						
Standard Deviation		0.00	0.00	0.87	0.000						
Accepted Value		5	1	1	0.4						
Gannet Standard		1522	-	-	-						
Number of Analyses		1	-	-	-						
Mean Value		1522.3	-	-	-						
Standard Deviation		-	-	-	-						
Accepted Value		1590	-	-	-						
BCC GEOCHEM STD 4		-	313	252	30.1						
Number of Analyses		-	1	1	1						
Mean Value		-	313.2	251.9	30.10						
Standard Deviation		-	-	-	-						
Accepted Value		-	290	255	30.0						
Gannet Standard		373	-	-	-						
Number of Analyses		1	-	-	-						
Mean Value		372.9	-	-	-						
Standard Deviation		-	-	-	-						
Accepted Value		410	-	-	-						
Gannet Standard		2552	-	-	-						
Number of Analyses		1	-	-	-						
Mean Value		2552.1	-	-	-						
Standard Deviation		-	-	-	-						
Accepted Value		2520	-	-	-						
BCC GEOCHEM STD 3		-	853	518	312.0						
Number of Analyses		-	1	1	1						
Mean Value		-	853.0	518.0	312.00						
Standard Deviation		-	-	-	-						
Accepted Value		-	820	500	310.0						
Gannet Standard		1032	-	-	-						
Number of Analyses		1	-	-	-						
Mean Value		1031.7	-	-	-						
Standard Deviation		-	-	-	-						
Accepted Value		1080	-	-	-						



# Bondar Clegg

## Inchcape Testing Services

# Geochemical Lab Report

CLIENT: MINFOCUS INTERNATIONAL INC.

PROJECT: 95051

REPORT: V96-01233.0 ( COMPLETE )

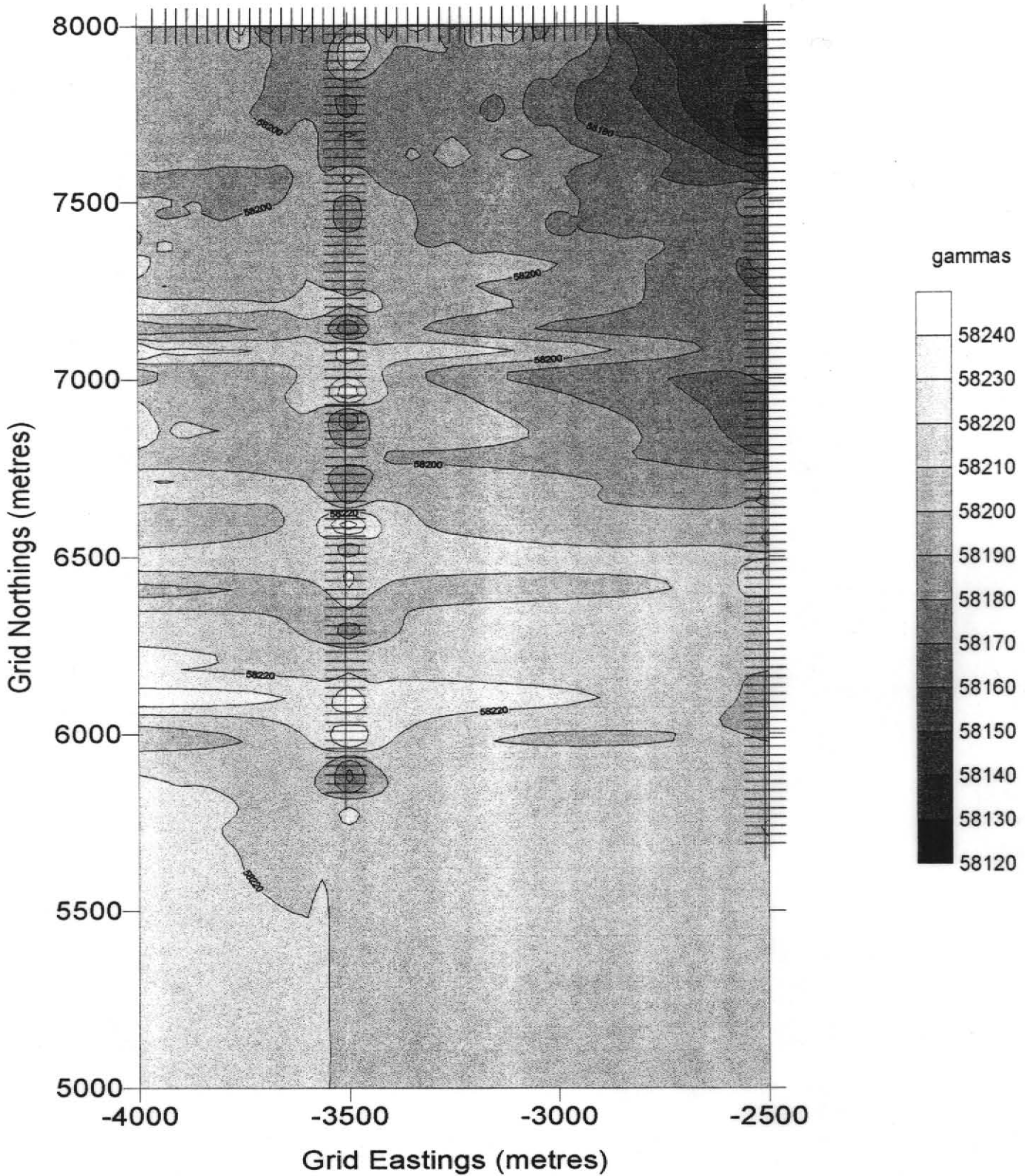
DATE PRINTED: 13-AUG-96

PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Cu PPM	Zn PPM	As PPM	SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Cu PPM	Zn PPM	As PPM
443W 6150N		<5	30	98							
Duplicate		<5	30	103							
1825W 7459N		<5	6	42							
Duplicate			6	43							
2250W 7000N		12	5	30							
Duplicate		9									
3225W 100N		<5	14	85							
Duplicate			15	83							
3500W 860N		15	71	69							
Duplicate		14									
3600W 950N		6	21	52							
Duplicate			20	54							
425W 900N		<5	22	25							
Duplicate		<5									
3500W 8000N		<5	18	63	2.3						
Duplicate			17	60	1.8						

APPENDIX B

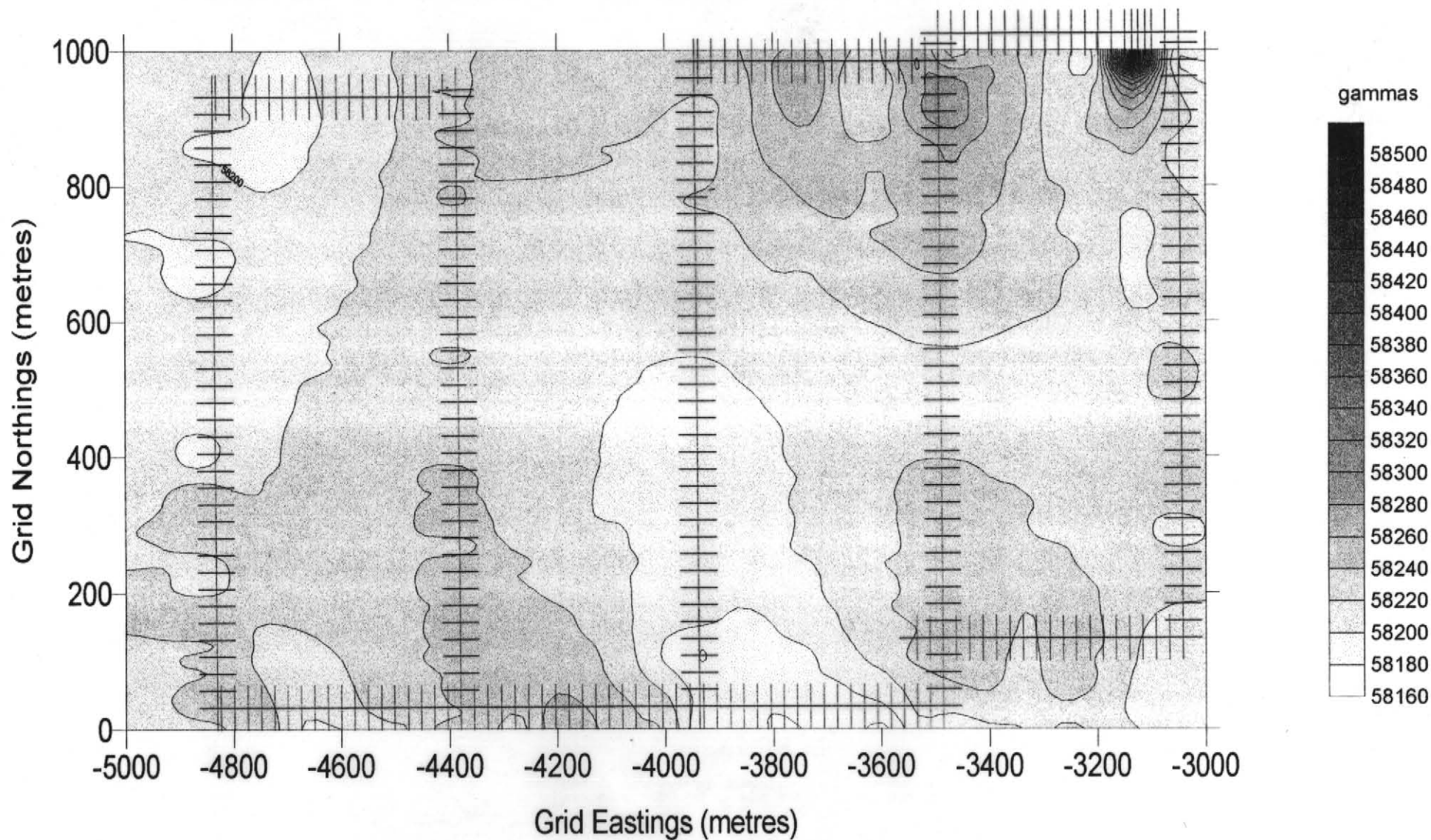
MAGNETIC CONTOURS OF JAY CLAIMS



GAMAH INTERNATIONAL LIMITED  
 MAGNETIC CONTOURS OF JAY CLAIMS (NORTH END)  
 Kriged Values  
 Watson Lake Area, Yukon Territory

+ Stations

Contours

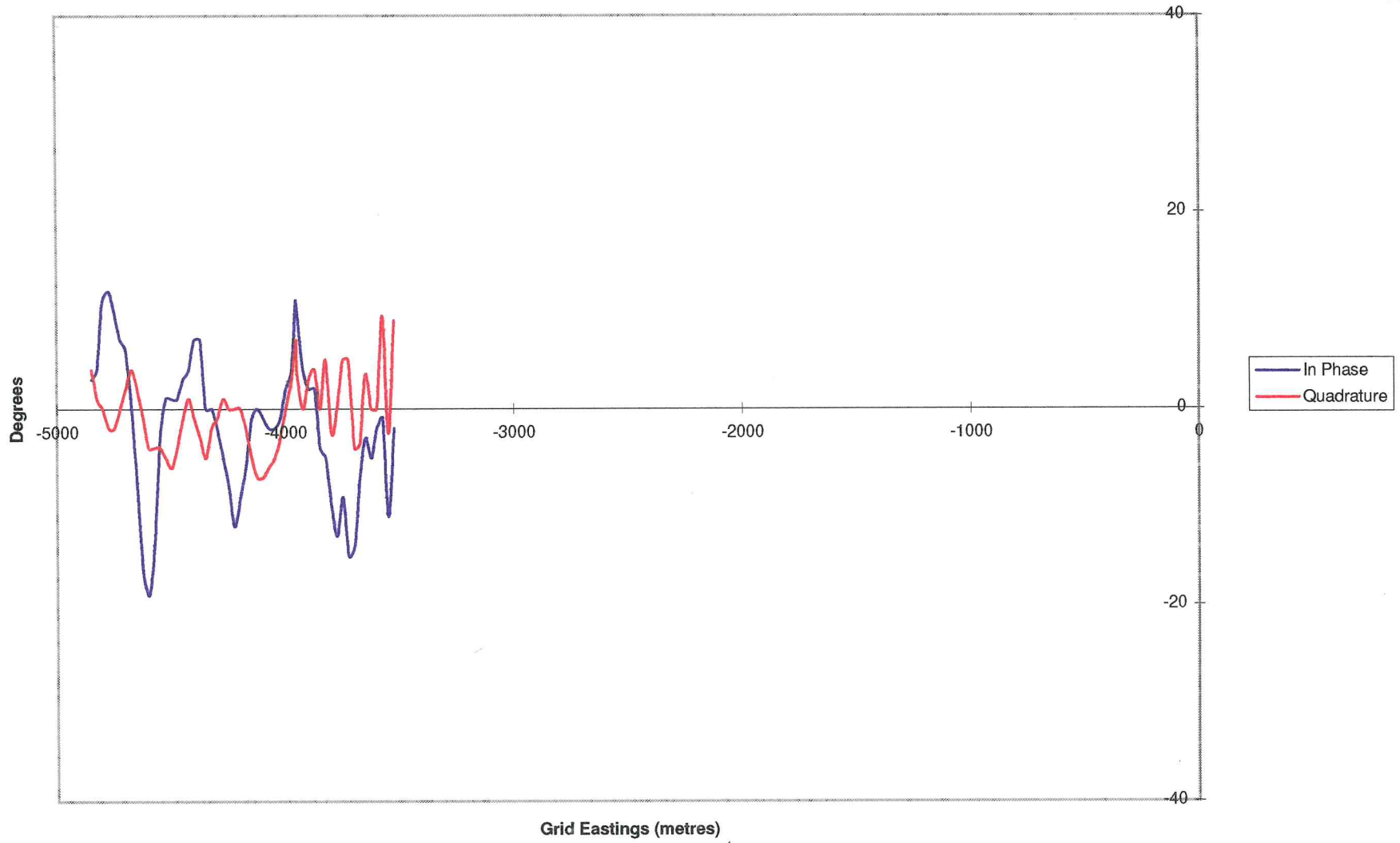


**GAMAH INTERNATIONAL LIMITED**  
**MAGNETIC CONTOURS OF JAY CLAIM (SOUTH END)**  
 Kriged Values  
 Watson Lake Area, Yukon Territory  
 + Stations  
 Contours

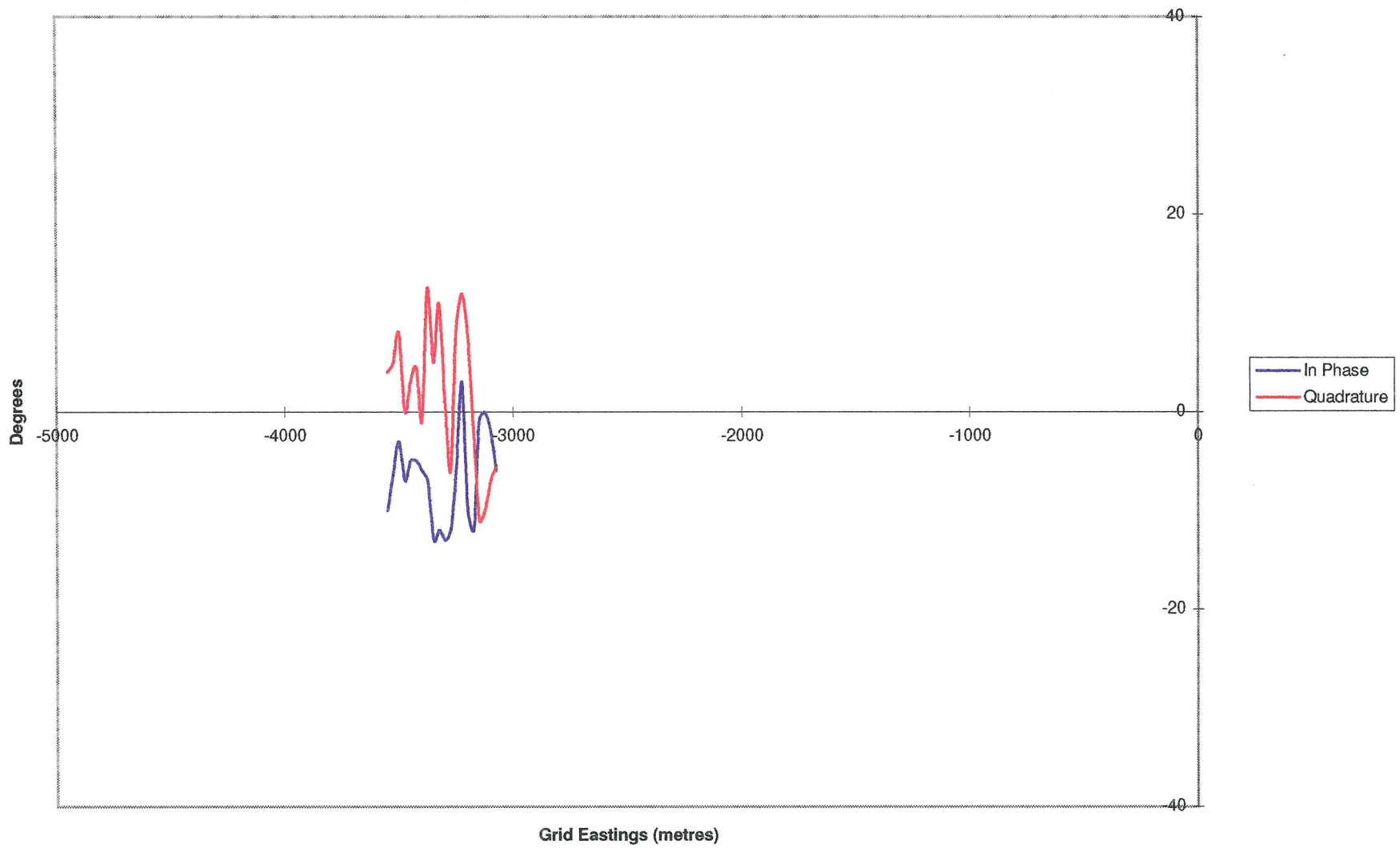
APPENDIX C

ELECTROMAGNETIC PROFILES OF JAY CLAIMS

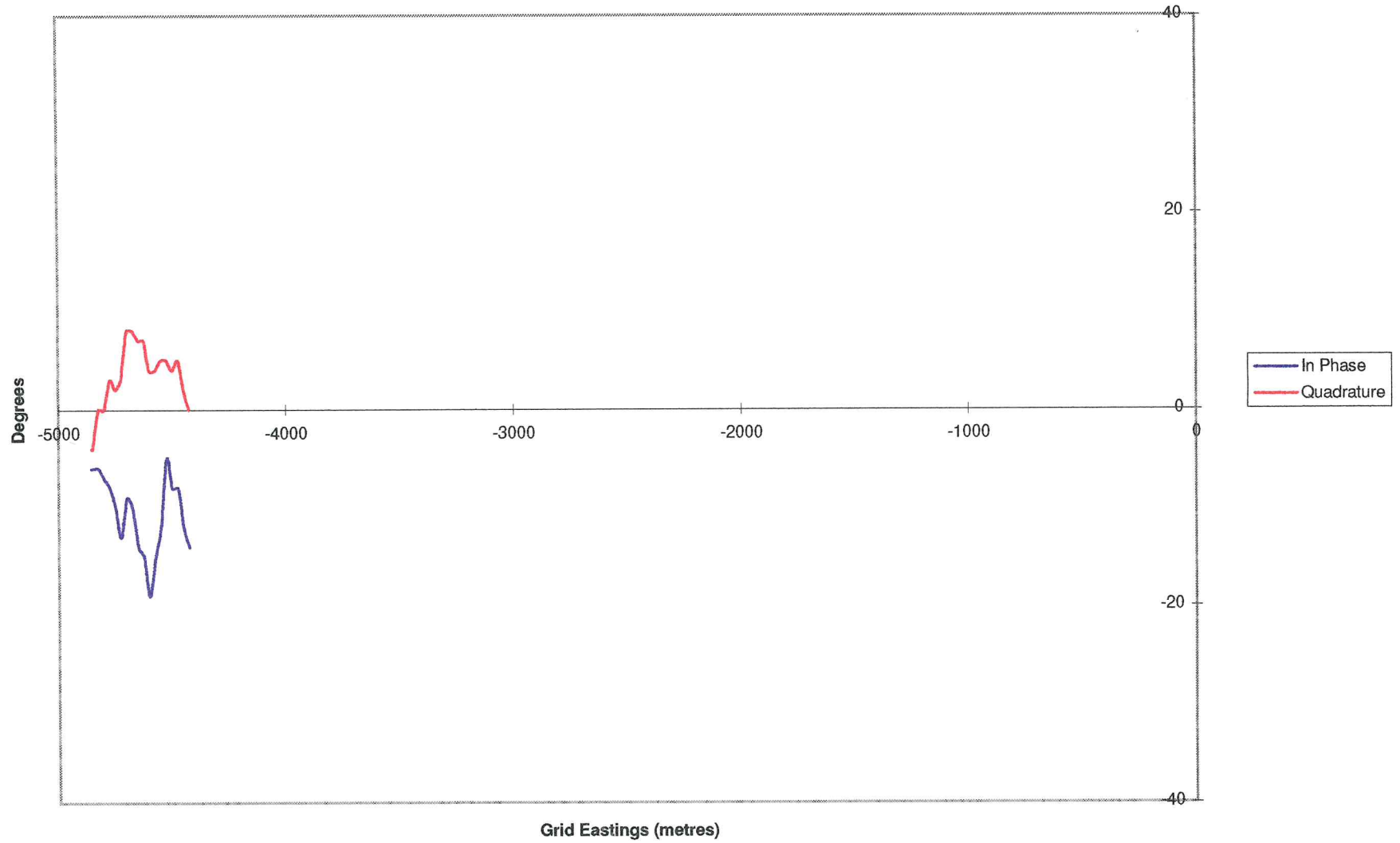
# Electromagnetic Profile of Line 0 N



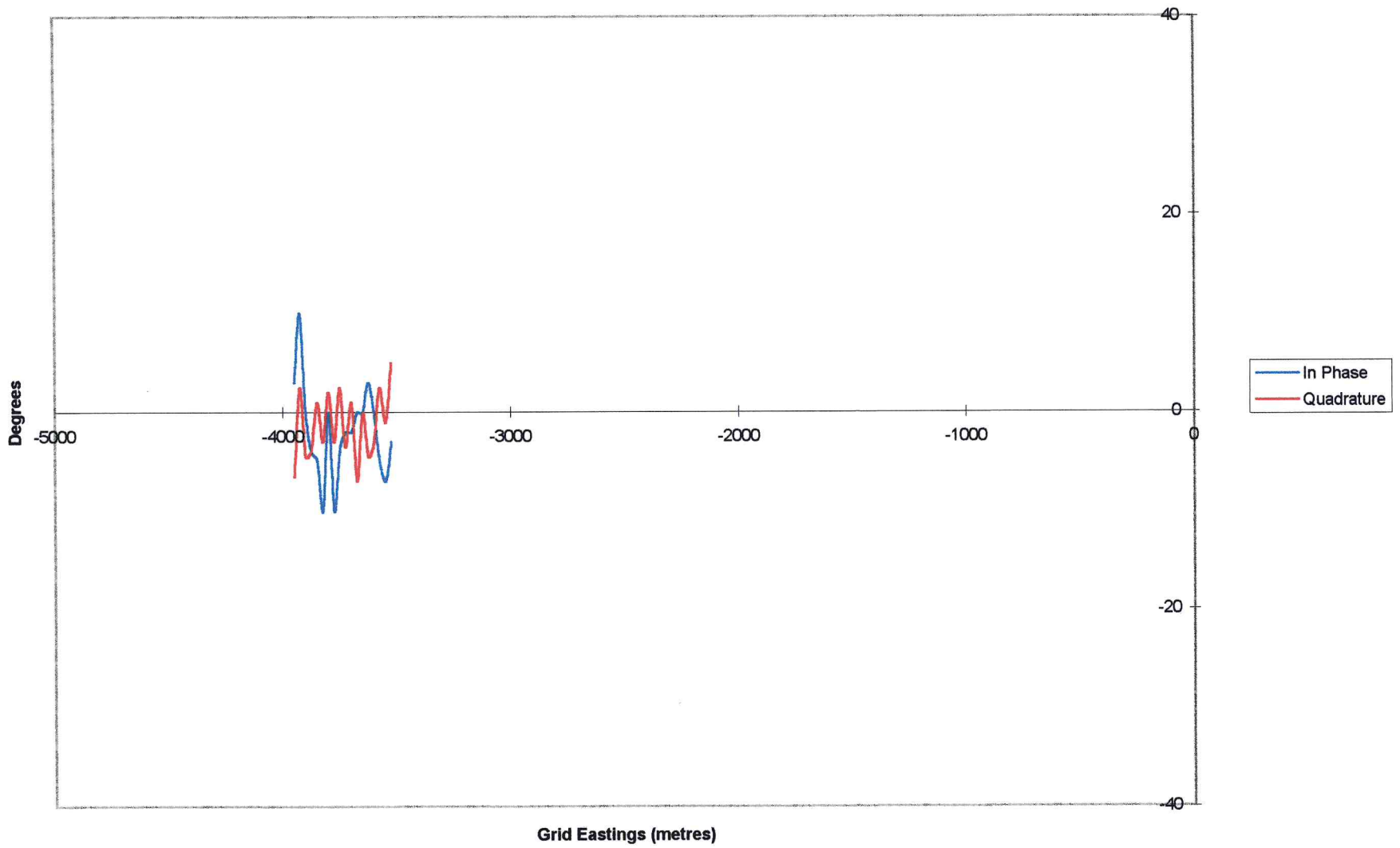
# Electromagnetic Profile of Line 100 N



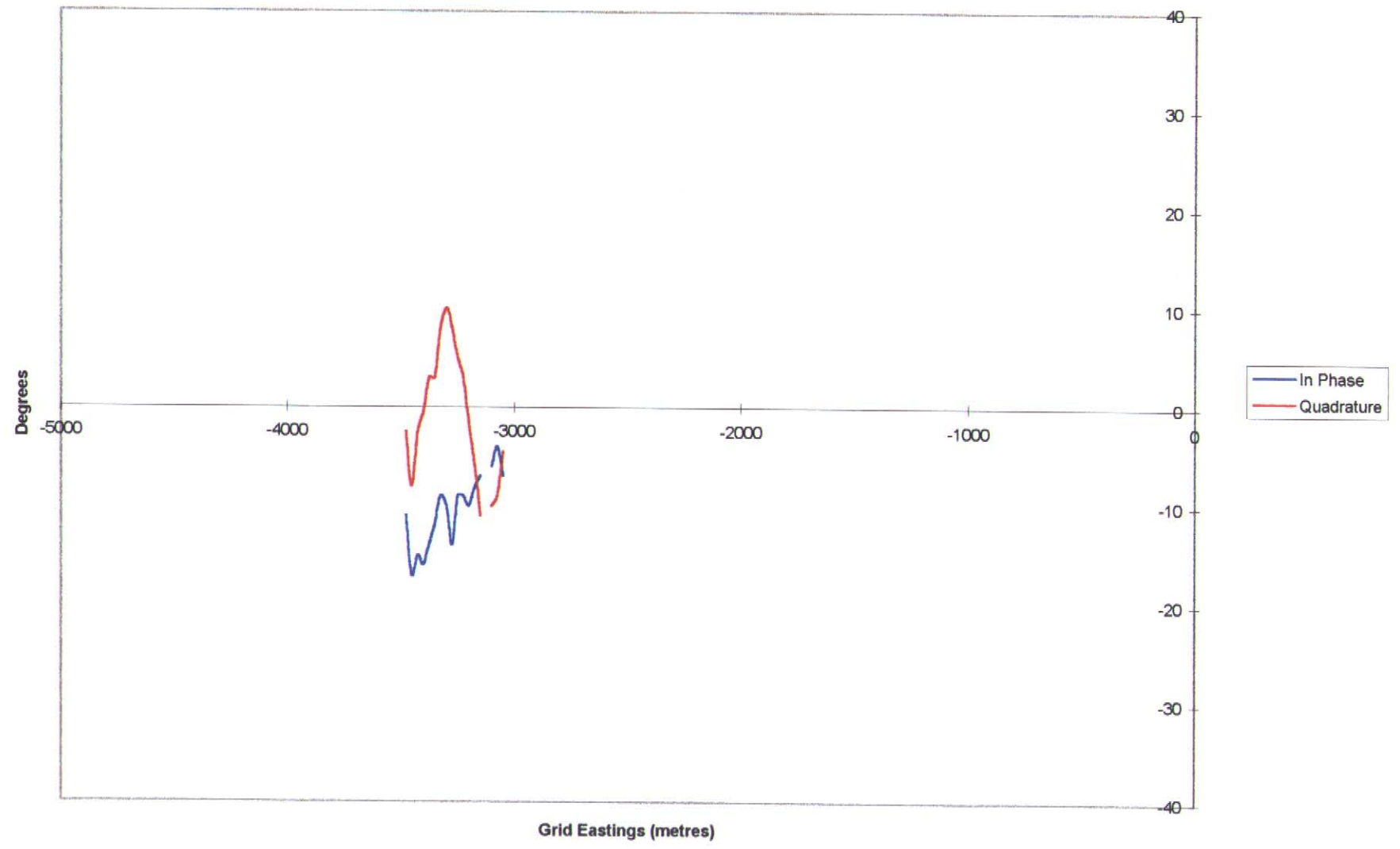
# Electromagnetic Profile of Line 900 N



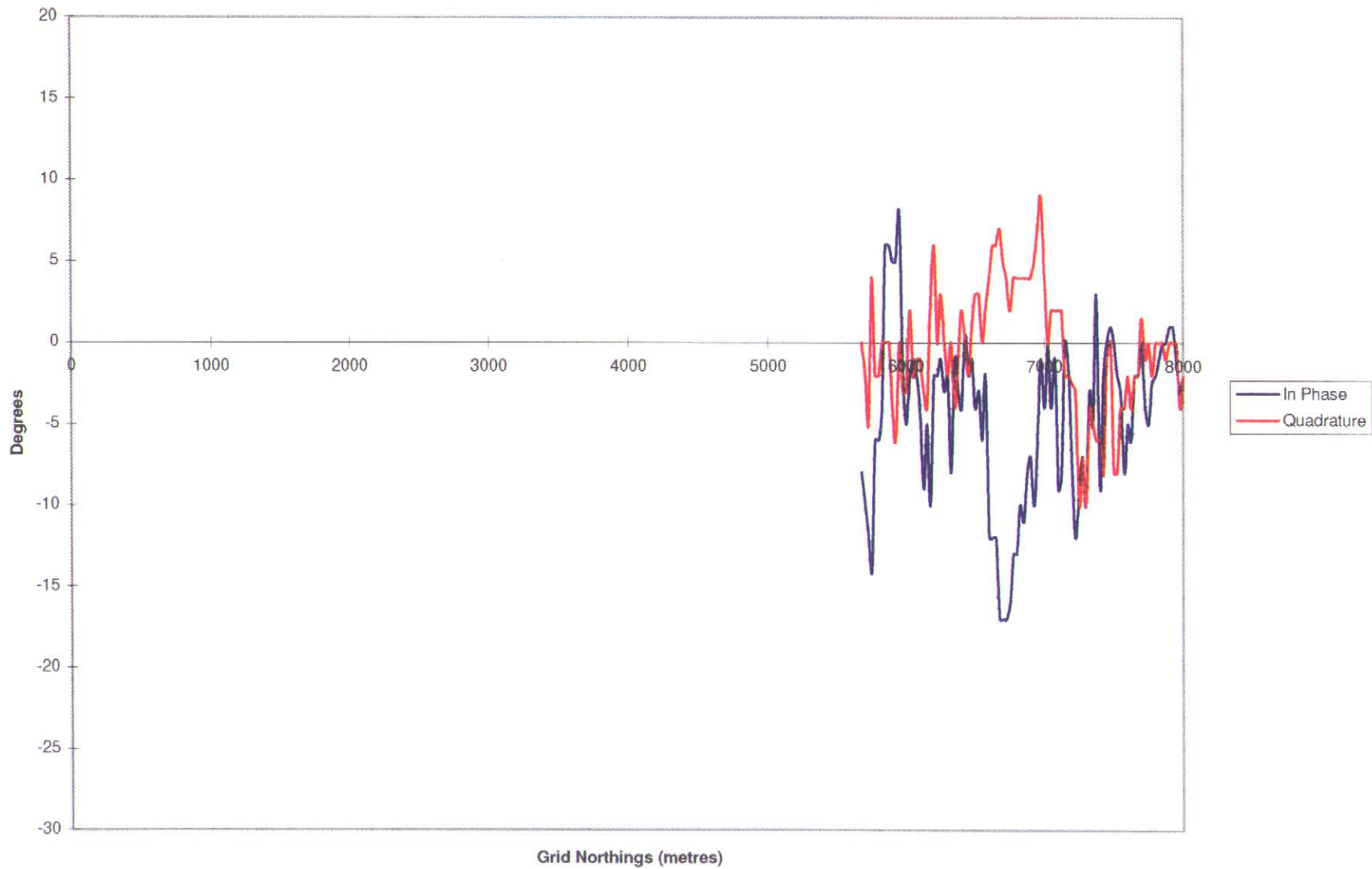
# Electromagnetic Profile of Line 950 N



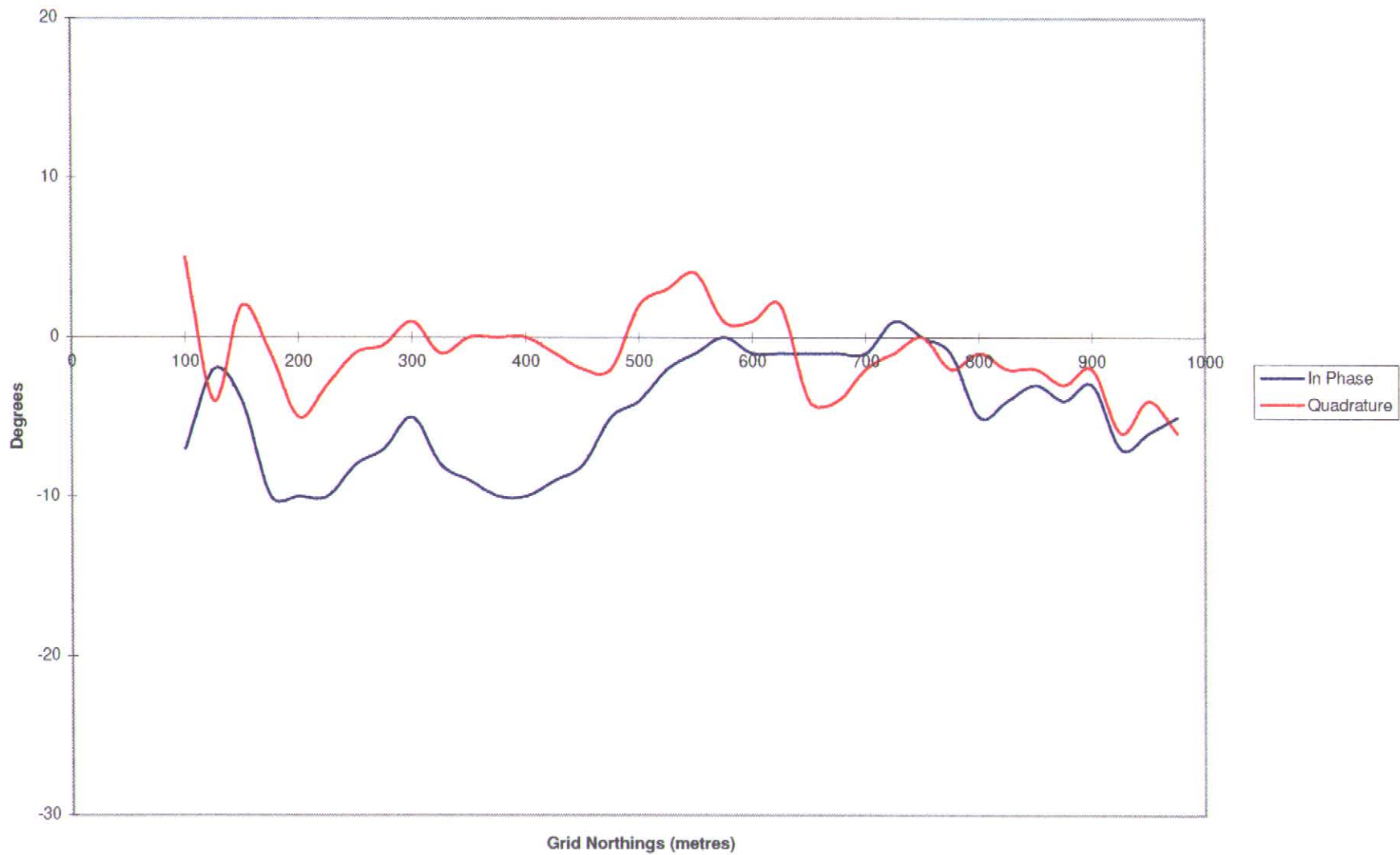
### Electromagnetic Profile of Line 990 N



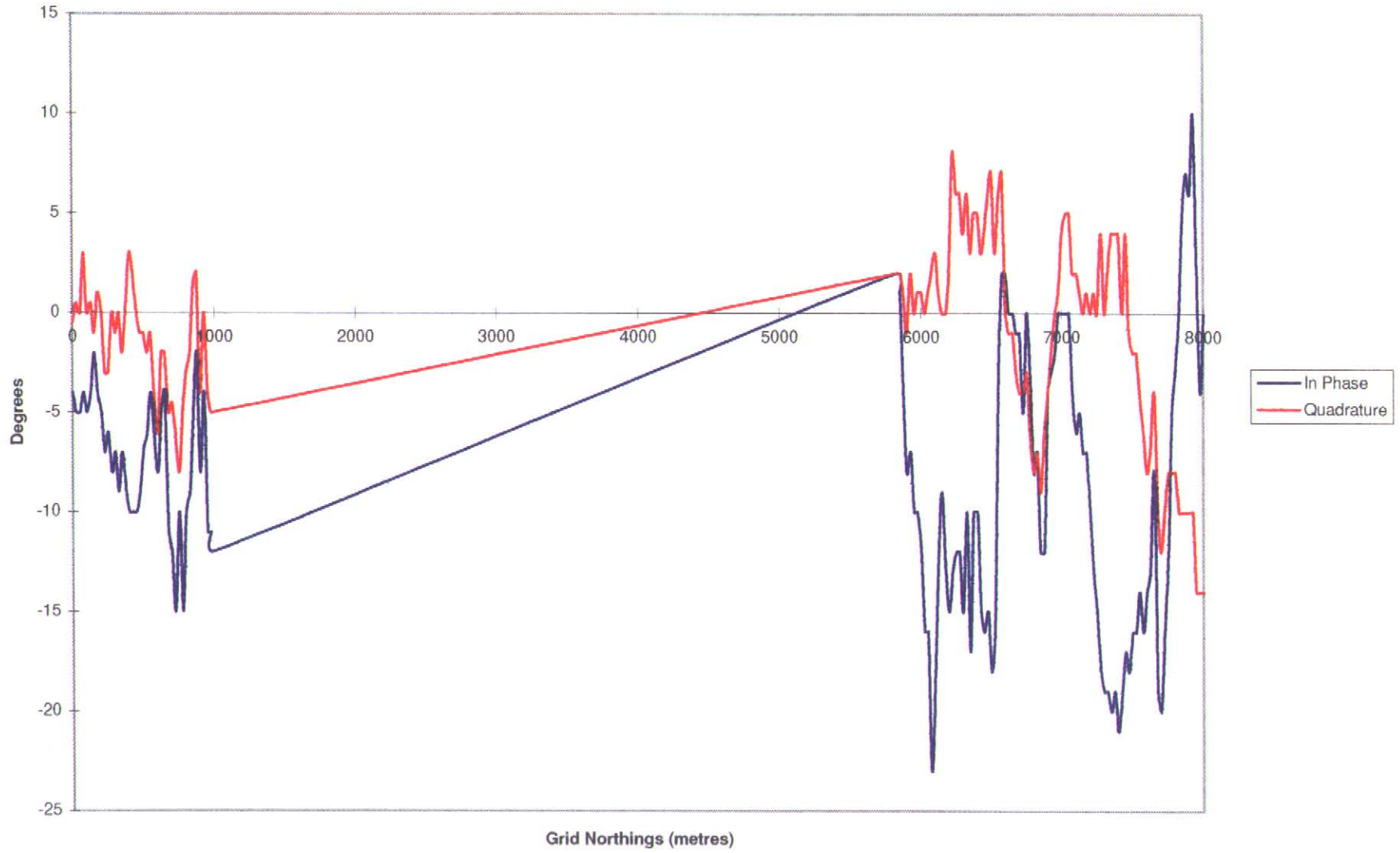
### Electromagnetic Profile of Line 2500 W



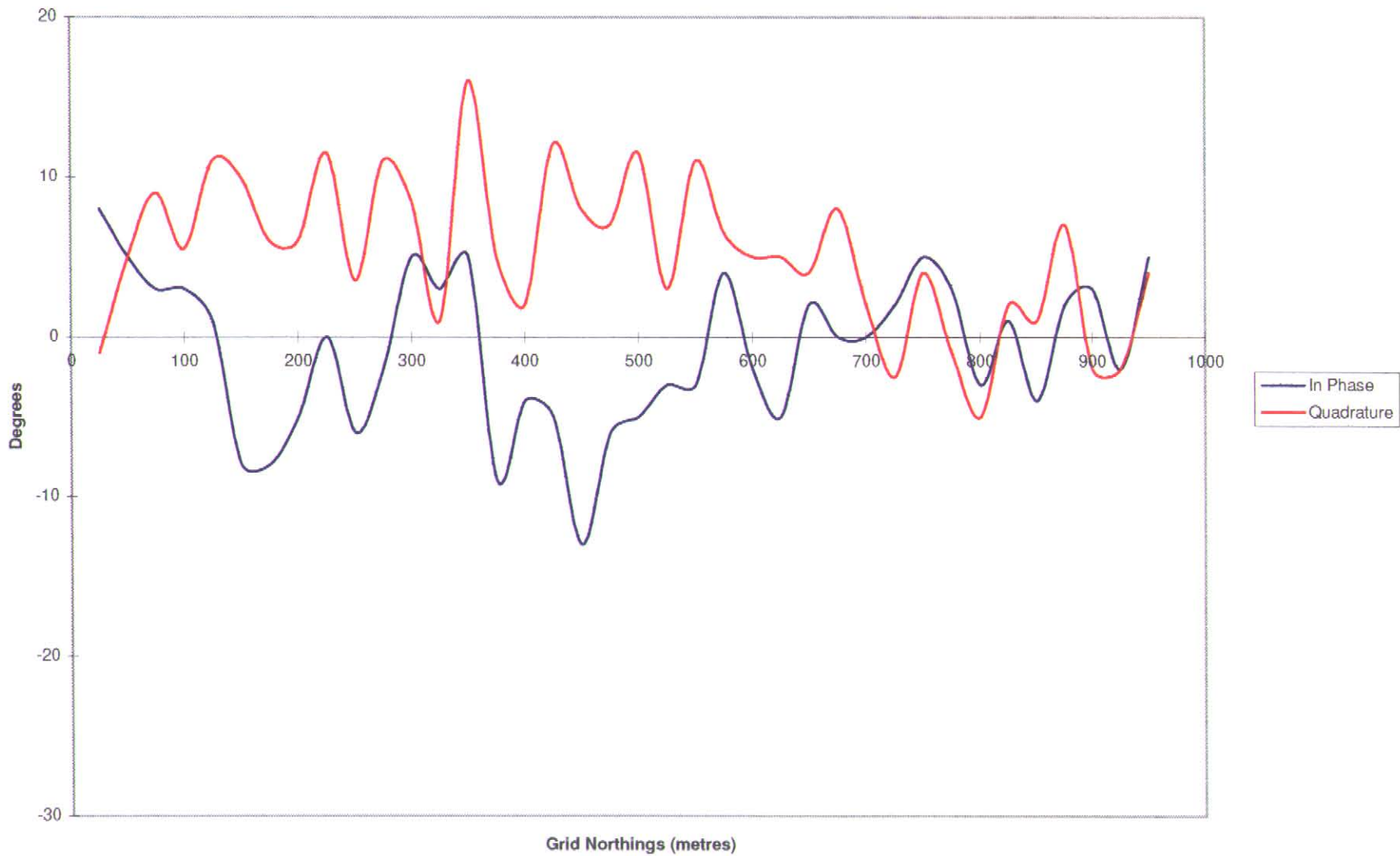
### Electromagnetic Profile of Line 3050 W



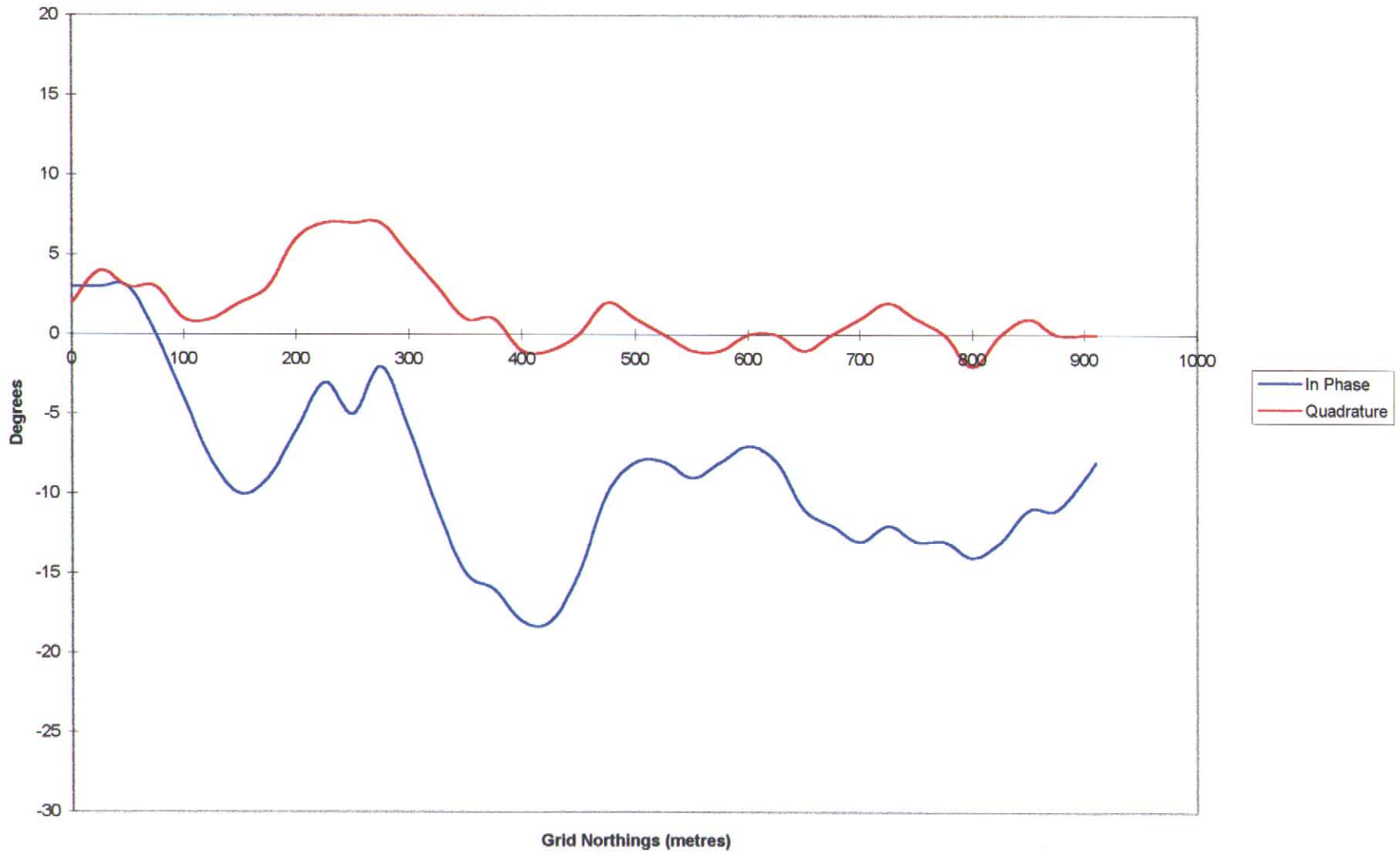
### Electromagnetic Profile of Line 3500 W



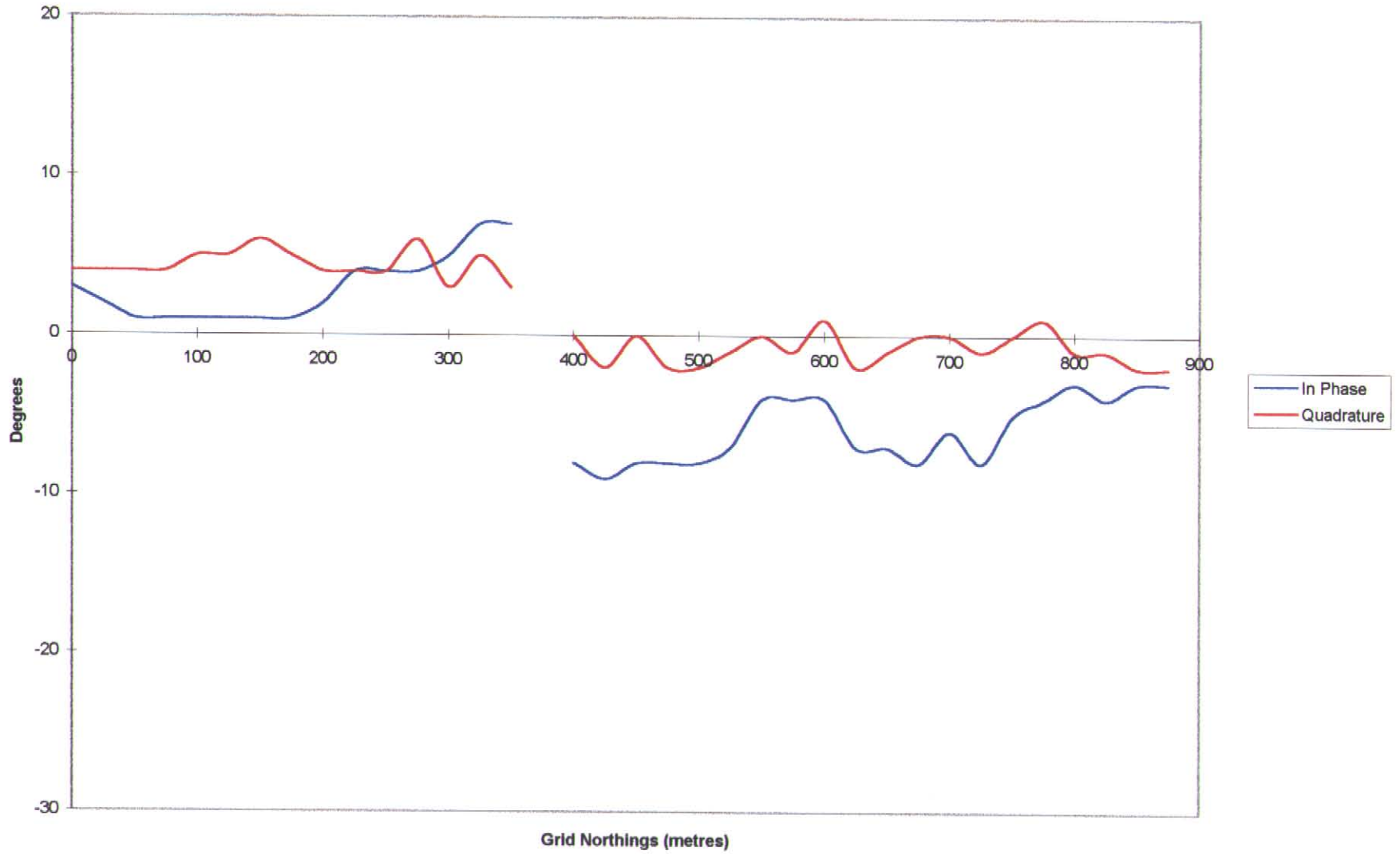
### Electromagnetic Profile of Line 3957 W



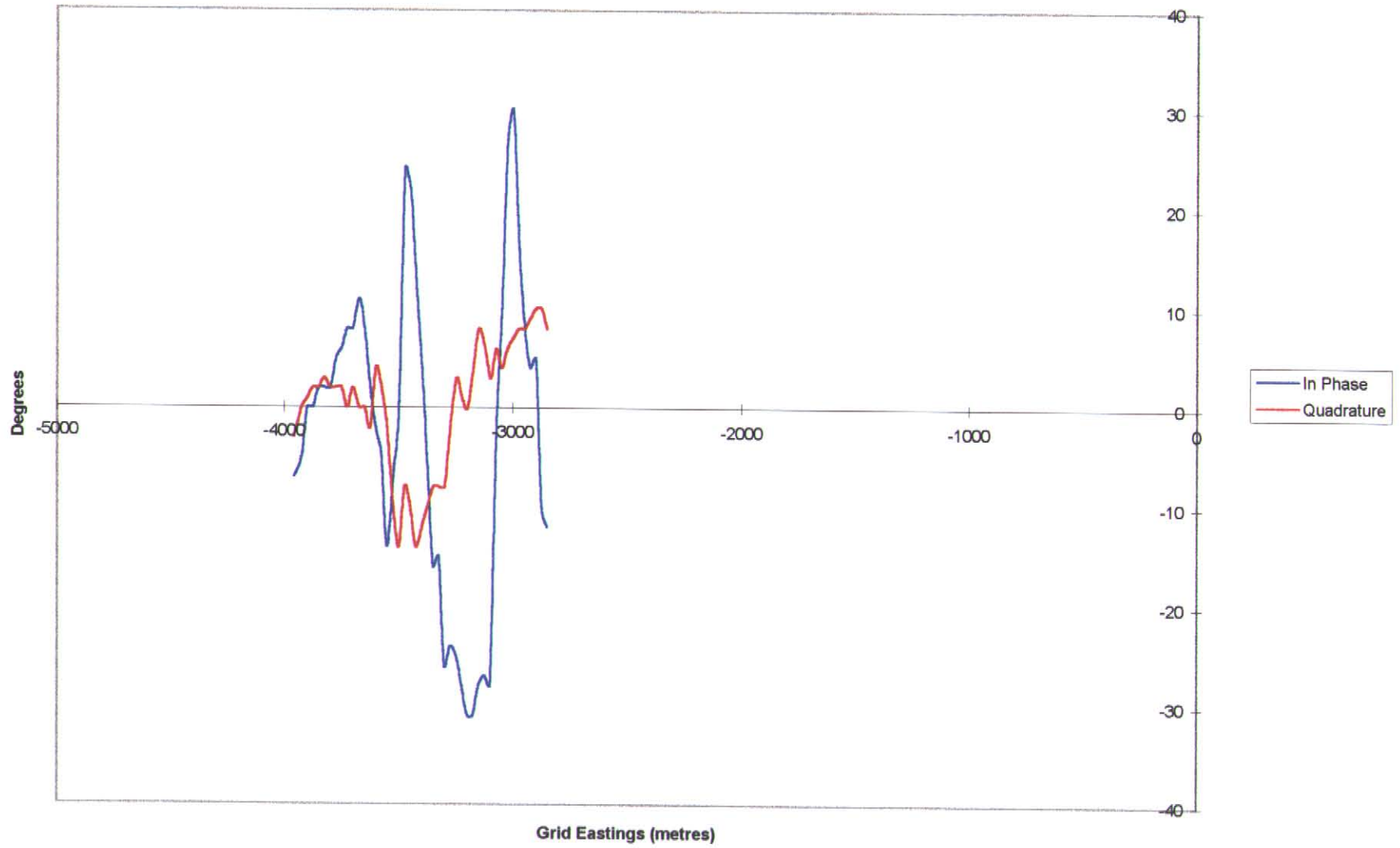
### Electromagnetic Profile of Line 4400 W



### Electromagnetic Profile of Line 4857 W



### Electromagnetic Profile of Line 8000 N



APPENDIX D

GEOPHYSICAL NOTES

JAY Geophysical Results and Notes

Grid Westing	Grid Northing	Mag Reading	In Phase	Quadrature	Notes
2500	8000	58128	-2	-2	pine, GPS: +/-70m, 60 29.81N 129 04.27W
	7975	58135	-3	-4	pine forest
	7950	58168	-1	0	pine, birch, lots undgrwth
	7925	58175	1	0	"
	7900	58141	1	0	" more damp
	7875	58139	0	-1	pine, spruce
	7850	58155	0	0	"
	7825	58144	-1	0	"
	7800	58180	-2	0	"
	7775	58139	-2.5	-2	"
	7750	58158	-5	0	"
	7725	58138	-4	-1	"
	7700	58115	0	1.5	stream
	7675	58160	-2	-2	pine forest
	7650	58145	-2	-2	"
	7625	58164	-6	-4	"
	7600	58167	-5	-2	+ swamp
	7575	58157	-8	-4	swampy
	7550	58188	-3	-4	"
	7525	58195	-2	-8	clearing, swampy, pines too
	7500	58212	0	-8	line 25m to west to pick up blaze again
	7475	58191	1	0	swampy
	7450	58185	0	-1	"
	7425	58195	-2	-8	"
	7400	58180	-9	-6	" with more forest
	7375	58186	3	-6	pine forest
	7350	58160	-5	-5	" soil sample HH-1
	7325	58191	-3	-4	"
	7300	58172	-10	-10	" post-GPS: +/-32m, 60 29.53N 129 04.06W
	7275	58171	-7	-7	conifer forest
	7250	58176	-9	-10	"
	7225	58188	-12	-3	"
	7200	58183	-8	-2.5	"
	7175	58212	-2	-2	"
	7150	58185	0	-2	"
	7125	58196	-8	2	"
	7100	58169	-9	2	"
	7075	58188	-1	2	swamp
	7050	58178	-4	2	"
	7025	58187	N/A	N/A	"
	7000	58185	-4	4	"
	6975	58160	-1	9	conifer forest
	6950	58181	-6	7	" soil HH-2
	6925	58169	-10	5	"
	6900	58179	-7	4	"
	6875	58163	-8	4	"
	6850	58177	-11	4	"
	6825	58173	-10	4	"
	6800	58180	-13	4	"
	6775	58181	-13	4	"
	6750	58178	-16	2	"
	6725	58198	-17	4	" soil HH-3
	6700	58205	-17	5	"
	6675	58195	-17	7	"
	6650	58200	-12	6	"
	6625	58208	-12	6	" soil HH-4

JAY Geophysical Results and Notes

Grid Westing	Grid Northing	Mag Reading	In Phase	Quadrature	Notes
	6600	58205	-12	2	post 22m short of 6600, GPS +/-31m, 60 29.32N 129 03.81W
	6575	58195	-2	2	conifer forest
	6550	58193	-6	0	"
	6525	58201	-3	3	"
	6500	58218	-4	3	"
	6475	58234	-1	1	" soil HH-5
	6450	58225	-2	-2	"
	6425	58235	0.5	0	"
	6400	58219	-4	2	"
	6375	58220	-3	-1	"
	6350	58214	-1	-4	"
	6325	58214	-8	0	"
	6300	58211	-2	-2	"
	6275	58214	-3	0	"
	6250	58211	-1	3	"
	6225	58217	-2	0	"
	6200	58218	-2	6	" more undrgrwth, soil HH-6
	6175	58210	-10	2	conifers undrgrwth
	6150	58206	-5	-4	"
	6125	58205	-9	-3	" swampy
	6100	58202	-4	-1	"
	6075	58219	-2	-1	"
	6050	58205	-1	-2	swamp
	6025	58211	-2	2	"
	6000	58194	-5	-3	" post-GPS: +/-50m?, 60 28.78N 129 03.55W
	5975	58213	-2	-3	conifers wet grnd
	5950	58223	8	0	"
	5925	58221	5	-6	"
	5900	58213	5	-4	"
	5875	58224	6	0	"
	5850	58212	6	0	"
	5825	58207	-4	0	few conifers, lots undrgrwth
	5800	58213	-6	-2	"
	5775	58213	-6	-2	"
	5750	58221	-14	4	" soil HH-7
	5725	58223	-12	-5	"
	5700	58203	-10	-2	"
	5675	58215	-8	0	" post -GPS: +/-84m, 60 28.42N 129 03.41W
	5650				NOTE: This line appears to intersect the next line staked as the posts are marked
	5625				#23-26, not 55-58.
3050	975	58224	-5	-6	open pine, west side of hill
	950	58216	-6	-4	"
	925	58212	-7	-6	" more smaller trees
	900	58221	-3	-2	"
	875	58213	-4	-3	"
	850	58205	-3	-2	" more dwnslope
	825	58215	-4	-2	"
	800	58215	-5	-1	"
	775	58220	-1	-2	"
	750	58223	0	0	" soil KB-9
	725	58217	1	-1	"
	700	58227	-1	-2	"
	675	58236	-1	-4	"
	650	58222	-1	-4	thick pine
	625	58216	-1	2	"
	600	58228	-1	1	more open, swampy patches

JAY Geophysical Results and Notes

Grid Westing	Grid Northing	Mag Reading	In Phase	Quadrature	Notes
	575	58240	0	1	"
	550	58243	-1	4	very open pine
	525	58241	-2	3	"
	500	58245	-4	2	" swampy patches
	475	58240	-5	-2	boggy, flattening out hill
	450	58224	-8	-2	"
	425	58239	-9	-1	small bushes, going uphill
	400	58240	-10	0	denser forest
	375	58230	-10	0	"
	350	58237	-9	0	"
	325	58225	-8	-1	"
	300	58206	-5	1	"
	275	58211	-7	-0.5	more open
	250	58234	-8	-1	"
	225	58226	-10	-3	"
	200	58225	-10	-5	"
	175	58217	-10	-1	conf 3, open pine
	150	58213	-4	2	conf 3, "
	125	58211	-2	-4	conf 3, "
	100	58204	-7	5	conf 3, SE corner
3500	8000	58184	-5	1	conifer with deep moss floor
	7975	58212	-6	2	"
	7950	58230	-4	2	"
	7925	58225	0	5	willow & pine
	7900	58224	0	5	"
	7875	58176	0	4	thick conifers, soil LG-1
	7850	58244	0	1	"
	7825	58235	-2	0	"
	7800	58214	-3	-2	"
	7775	58183	-4	-4	conifer forest with undrgrwth
	7750	58196	-12	-6	"
	7725	58191	-12	-9	"
	7700	58201	-7	-7	"
	7675	58214	-8	-8	thick forest
	7650	58202	-3	-6	"
	7625	58206	0	-3	"
	7600	58185	-5	-4	thicket, pine
	7575	58199	-1	-4	"
	7550	58194	-1	-3	"
	7525	58200	0	-1	open pine
	7500	58237	0	-1	"
	7475	58242	2	0	"
	7450	58253	2	7	heavy undrgrwth conifer, soil JV-3
	7425	58196	-3	6	"
	7400	58208	-16	3	conifers
	7375	58219	-18	7	"
	7350	58224	-15	6	clearing
	7325	58204	-16	4	"
	7300	58223	-15	3	"
	7275	58218	-10	5	open birch
	7250	58202	-10	5	"
	7225	58213	-17	3	dense undrgrwth
	7200	58178	-10	6	"
	7175	58202	-15	4	mixed forest
	7150	58191	-12	6	"
	7125	58237	-12	6	"

JAY Geophysical Results and Notes

Grid Westing	Grid Northing	Mag Reading	In Phase	Quadrature	Notes
	7100	58217	-13	8	"
	7075	58198	-15	2	"
	7050	58226	-13	0	"
	7025	58215	-9	0	post for 25-28, GPS: +/-41m, 60 27.94N 129 03 40W
	7000	58212	-12	1	few conifers, heavy undrgrwth
	6975	58240	-18	3	"
	6950	58238	-23	2	" ROCK JV-1
	6925	58218	-16	1	" soil JV-2
	6900	58241	-16	0	"
	6875	58226	-12	1	edge clearing, heavy undrgrwth
	6850	58243	-10	1	open conifers
	6825	58236	-10	0	"
	6800	58195	-7	2	"
	6775	58194	-8	-1	" soil JV-1
	6750	58198	-4	1	" some undrgrwth
	6725	58188	1	2	"
	6700	58220	2	2	"
	1000	58318	-12	-5	posts 3-6 @ 990m, GPS: +/-30m, 60 26.35N 129 01.11W, soil KB-5
	975	58336	-11	-5	open conifer forest, dry grnd
	950	58361	-11	-4	" soil KB-4
	925	58297	-4	0	"
	900	58356	-8	-4	" soil KB-3
	875	58274	-2	2	"
	850	58270	-5	1.5	" soil @ 860m mark KB-2
	825	58293	-9	-2	"
	800	58275	-10	-3	"
	775	58271	-15	-5	"
	750	58267	-10	-8	"
	725	58272	-15	-6	"
	700	58268	-12	-4.5	"
	675	58267	-11	-5	"
	650	58253	-4	-2	"
	625	58251	-5	-2	"
	600	58242	-8	-6	"
	575	58252	-6	-4	"
	550	58241	-4	-1	"
	525	58217	-6	-2	" posts 1-4, GPS: +/-28m, 60 26.43N 129 00.91W
	500	58220	-7	-1	" also swampy patches & few small willow
	475	58222	-9	-1	"
	450	58222	-10	0	"
	425	58232	-10	2	"
	400	58241	-10	3	open conifer
	375	58249	-9	0.5	"
	350	58251	-7	-2	"
	325	58252	-9	0	"
	300	58243	-7	-1	"
	275	58248	-8	0	"
	250	58246	-6	-3	"
	225	58241	-7	-3	"
	200	58242	-5	0	" some undergrwth
	175	58240	-4	1	"
	150	58240	-2	-1	"
	125	58237	-4	0.5	"
	100	58221	-5	0	"
	75	58221	-4	0	"
	50	58224	-5	0	"

JAY Geophysical Results and Notes

Grid Westing	Grid Northing	Mag Reading	In Phase	Quadrature	Notes
	25	58237	-5	0.5	" soil KB-1
	0	58184	-4	-0.5	post 1-2, GPS: +/- 38M, 60 26 16N 129 00.63W
<b>3957</b>	0				GPS: +/- 29m, 60 25.99N 129 00.89W
	25	58201	8	-1	c2, open, dry, fairly sparse pine
	50	58205	5	5	"
	75	58195	3	9	"
	100	58169	3	5.5	c3 "
	125	58169	1	11	c3, damp pine forest
	150	58210	-8	10	" soil KB-7
	175	58215	-8	6	"
	200	58199	-5	6	c2, "
	225	58194	0	11.5	"
	250	58226	-6	3.5	"
	275	58215	-2	11	"
	300	58206	5	8.5	" soil KB-8
	325	58207	3	1	" denser forest
	350	58195	5	16	c2, "
	375	58206	-9	5	"
	400	58208	-4	2	c2, open wet willow
	425	58199	-5	12	"
	450	58209	-13	8	"
	475	58217	-6	7	"
	500	58213	-5	11.5	"
	525	58213	-3	3	" denser forest
	550	58222	-3	11	c2, conifers, willows
	575	58220	4	6.5	"
	600	58234	-2	5	"
	625	58233	-5	5	"
	650	58224	2	4	"
	675	58214	0	8	"
	700	58225	0	2	"
	725	58215	2	-2.5	c3, mixed
	750	58229	5	4	c2, mixed
	775	58258	3	-1	c3, mixed, dryer, soil KB-9
	800	58229	-3	-5	c2, mixed
	825	58232	-11	2	c3, mixed, dense
	850	58230	-4	1	"
	875	58234	2	7	"
	900	58232	3	-2	"
	925	58237	-2	-2	"
	950	58256	5	4	"
<b>4400</b>	0	58264	3	2	pine, boggy
	25	58235	3	4	"
	50	58245	3	3	"
	75	58240	0	3	"
	100	58250	-4	1	dry pine forest
	125	58242	-8	1	" some undrgrwth
	150	58247	-10	2	"
	175	58239	-9	3	pine, boggy
	200	58246	-6	6	"
	225	58248	-3	7	pine, willow
	250	58243	-5	7	"
	275	58232	-2	7	more open
	300	58253	-6	5	pine, willow
	325	58244	-11	3	"
	350	58240	-15	1	"

JAY Geophysical Results and Notes

Grid Westing	Grid Northing	Mag Reading	In Phase	Quadrature	Notes
	375	58250	-16	1	sparse undrgrwth
	400	58231	-18	-1	"
	425	58239	-18	-1	"
	450	58238	-15	0	"
	475	58232	-10	2	post @ 460 #33-36, GPS: +/-30m, 60 26.15N 129 01.24W
	500	58243	-8	2	"
	525	58235	-8	0	"
	550	58246	-9	-1	"
	575	58233	-8	-1	"
	600	58239	-7	0	"
	625	58233	-8	0	"
	650	58235	-11	-1	"
	675	58233	-12	0	"
	700	58234	-13	1	increase undrgrwth
	725	58232	-12	2	"
	750	58225	-13	1	"
	775	58242	-13	0	"
	800	58242	-14	-2	"
	825	58227	-13	0	"
	850	58235	-11	1	"
	875	58248	-11	0	"
	900	58231	-9	0	"
	910	58238	-8	0	post #35-38, GPS: +/-27m, 60 26.43N 129 01.55W
4857	875	58198	-3	-2	pine, some undrgrwth
	850	58190	-3	-2	"
	825	58212	-4	-1	"
	800	58202	-3	-1	"
	775	58199	-4	1	"
	750	58209	-5	0	"
	725	58203	-8	-1	"
	700	58184	-6	0	"
	675	58197	-8	0	"
	650	58193	-7	-1	"
	625	58204	-7	-2	undrgrwth thickening
	600	58204	-4	1	"
	575	58214	-4	-1	"
	550	58222	-4	0	"
	525	58212	-7	-1	"
	500	58214	-8	-2	"
	475	58201	-8	-2	"
	450	58210	-8	0	"
	425	58194	-9	-2	"
	400	58183	-8	0	walk frm our 400m mark (60 26.13N/129 01.23W) to other section 400 mark (60 26.05N/129 01.67W)
	375				
	350	58233	7	3	boggy
	325	58240	7	5	"
	300	58225	5	3	"
	275	58224	4	6	"
	250	58217	4	4	conifer forest
	225	58213	4	4	"
	200	58216	2	4	"
	175	58232	1	5	"
	150	58225	1	6	"
	125	58217	1	5	"
	100	58224	1	5	"
	75	58217	1	4	"

JAY Geophysical Results and Notes

Grid Westing	Grid Northing	Mer. Reading	Inches	Quadrants	Notes
	50	58227	1	2	" increase undgrwth
	25	58227	2	4	"
	0	58211	3	4	"
<b>NB: for ease, confidence ratings will be denoted as c-1,c-2,c-3</b>					
3525	0	58222	-2	-19	c-2, open pine
3550		58196	-11	-2.5	c-2, "
3575		58197	-1	9.5	c-2, "
3600		58174	-2	0	"
3625		58171	-5	0	" wet ground
3650		58180	-3	3.5	c-2
3675		58200	-7	-3.5	c-2, open pine, deep moss
3700		58186	-14	-4	c-3, "
3725		58182	-15	5	"
3750		58180	-9	5	c-2, "
3775		58174	-13	0	"
3800		58179	-10	2.5	c-3, "
3825		58177	-5	5	"
3850		58179	-4	0	"
3875		58190	2	4	c-2, slightly boggy
3900		58203	2	3	c-2, open pine, dry
3925		58182	4	0	c-3 "
3950		58186	10	3.5	c-2, "
3957		58189	11	7	c-3, "
4425		58226	4	1	"@ post, small thick black spruce
4450		58226	3	-1	more open
4475		58220	1	-4	"
4500		58221	1	-6	"
4525		58203	1	-5	"
4550		58241	-3	-4	more open and slightly boggy
4575		58235	-14	-4	"
4600		58200	-19	-4	"
4625		58203	-17	-1	"
4650		58199	-8	2	" soil JV-7
4675		58196	0	4	"
4700		58210	6	2	"
4725		58226	7	0	"
4750		58228	10	-2	"
4775		58222	12	-2	"
4800		58222	11	0	"
4825		58220	4	1	"
4850		58222	3	4	"
3075	100	58199	-6	-5.5	pine, side of hill GPS: +/-78m, 60 26.36N 129 00.09W
3100		58205	-2	-7	c3, "
3125		58221	0	-10	"
3150		58224	-1	-11	"
3175		58233	-12	-2	"
3200		58237	-10	8	c2, soil KB-1
3225		58259	3	12	c2, soil KB-2
3250		58280	-6	8	c2, soil KB-3
3275		58249	-12	-6	c3, soil KB-4
3300		58237	-13	1	c2, open pine
3325		58224	-12	11	"
3350		58239	-13	5	"
3375		58231	-7	12.5	"
3400		58251	-6	-1	" soil KB-5
3425		58277	-5	4.5	c2, soil KB-6

JAY Geophysical Results and Notes

Grid Westing	Grid Northing	Magn Reading	Incl Inase	Quadrant	Notes
3450		58272	-5	3	c3, pine
3475		58241	-7	0	c3, pine, willow wet
3500		58238	-3	8	"
3525		58243	-6	5	pine
3550		58245	-10	4	c3, met orig. 3500 line
4425	900	58208	-14	0	soil JV-3
4450		58229	-12	2	open pine & willow
4475		58232	-8	5	"
4500		58213	-8	4	"
4525		58210	-5	5	"
4550		58205	-12	5	"
4575		58224	-15	4	"
4600		58209	-19	4	"
4625		58192	-15	7	" soil JV-4
4650		58201	-14	7	"
4675		58187	-18	8	" soil JV-5
4700		58204	-9	8	"
4725		58194	-13	3	"
4750		58198	-10	2	"
4775		58173	-8	3	" soil JV-6
4800		58207	-7	0	"
4825		58210	-6	0	"
4850		58201	-6	-4	"
4857		58213	-6	-4	" GPS +/- 54m, 60 26.31N 129 01.98W
3957	950				see earlier traverse notes
3950		58244	3	-6.5	c2, dense conifers, mossy, soil MM-1
3925		58246	10	2.5	"
3900		58239	0	-4.5	"
3875		58247	-4	-4	" soil MM-2
3850		58260	-5	1	"
3825		58255	-10	-3	"
3800		58281	0	2	"
3775		58300	-10	-3	"
3750		58329	-4	2.5	c3, soil MM-3
3725		58282	-2	-3.5	c2, soil MM-4
3700		58261	-2	1	"
3675		58259	0	-7	"
3650		58243	0	0	" soil MM-5
3625		58257	3	-4.5	"
3600		58245	0	-3	" soil MM-6
3575		58250	-5	2.5	"
3550		58287	-7	-1	" soil MM-7
3525		58294	-3	5	"
3475	990	58245	-11	-2.5	open conifer
3450		58261	-17	-8	"
3425		58254	-15	-2.5	" uphill slightly
3400		58274	-16	-0.5	"
3375		58316	-14	3	" soil KB-6
3350		58269	-12	3	"
3325		58247	-9	8	"
3300		58222	-10	10	"
3275		58235	-14	8	"
3250		58225	-9	5	"
3225		58224	-9	3	"
3200		58227	-9	-1.5	"
3175		58239	-8	-6	"

JAY Geophysical Results and Notes

Grid Westing	Grid Northing	Mag Reading	In Phase	Quadrangle	Notes
3150		58289	-7	-11	" soil KB-7
3137		58608			
3125		58587	-5	-10	" soil KB-8
3112		58304			
3100		58240	-6	-10	"
3075		58224	-4	-9	"
3050		58223	-7	-4.5	"
3957	8000	58206	-7	-3	NW edge of Jay traversing grid east, birch & willow
3925		58201	-5	0	birch, willow
3900		58202	0	1	"
3875		58210	0	2	"
3850		58206	2	2	"
3825		58210	2	3	"
3800		58200	2	2	conifer, moss covered floor
3775		58200	5	2	"
3750		58227	6	2	"
3725		58225	8	0	" soil LG-3
3700		58164	8	2	"
3675		58198	11	0	"
3650		58196	8	0	pine & birch
3625		58162	2	-2	"
3600		58202	-2	4	"
3575		58188	-5	2	flat grassy, mossy, marshy area
3550		58190	-14	-2	"
3525		58203	-7	-10	pine birch, willow
3500		58200	0	-14	post (see 3500 traverse)
3475		58235	24	-8	"
3450		58203	22	-10	"
3425		58202	13	-14	mostly birch on steepening slope up
3400		58197	4	-12	" rock KB-2
3375		58191	-6	-10	" rock KB-3
3350		58213	-15	-8	"
3325		58202	-15	-8	"
3300		58208	-26	-8	upslope mostly birch
3275		58194	-24	-2	"
3250		58188	-25	3	"
3225		58199	-28	1	"
3200		58208	-31	0	" rock KB-4
3175		58193	-31	4	fattening out terrain
3150		58203	-28	6	"
3125		58200	-27	6	"
3100		58216	-28	3	slightly downslope (~5degrees)
3075		58174	-3	6	"
3050		58185	10	4	"
3025		58186	27	6	"
3000		58194	30	7	"
2975		58230	16	8	"
2950		58198	8	8	"
2925		58175	4	9	"
2900		58191	5	10	"
2875		58192	10	10	"
2850		58163	-12	8	"

!! Hit logging road about 100m north of 2500m post!!