# REPORT ON GEOPHYSICAL SURVEYS AND DIAMOND DRILLING ON GMS GROUP OF CLAIMS WATSON LAKE MINING DISTRICT YUKON TERRITORY, CANADA <br> March-April, 1996 

for

Minfocus International Inc.


NTS 105/A2, 105/A6, 105/A7
LAT: $61^{\circ} 15^{\prime} \mathrm{N}$ LONG: $129^{\circ} 0^{\prime} \mathrm{W}$

Yukon Mining Incentıves Desıgnation \#96-008
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## 1 SUMMARY

Airborne magnetic and electromagnetic surveys and ground gravity surveys in 1980-1983, followed up by a ground Max-Min EM survey in 1990, indicated a conductor recommended for drill testing on the GMS claims. In late 1995 and early 1996 the claim block was surveyed with ground magnetics and VLF-EM and a search made for the earlier established grid to allow location of conductors and suitable drill targets. In 1995-96, 18 lines were cut and flagged for a total of $19,385 \mathrm{~m}$, of which $16,185 \mathrm{~m}$ in 16 lines were surveyed by VLF-EM, then three were resurveyed by VLF-EM using a different frequency station signal. Magnetometer surveying covered $8,275 \mathrm{~m}$ along 10 of the new lines and one line was resurveyed. A total of 398 m of diamond drilling in 3 holes was completed in March - April 1996. After logging, core was sampled and assayed. No economic mineralization was discovered.

## 2 INTRODUCTION

Winters are long and bitter in Yukon but unlike the Northwest Territories, there is some respite from the weather when a Chinook blows in as was the case in March 1996, when the temperatures warmed up sufficiently around Watson lake, Yukon, where the property is located, for an adequate water supply to be established to allow this drilling to be undertaken. Winter was selected as the preferred time for drilling so that access to the drill sites would be over snow and frozen ground and therefore problems of crossing and damaging wetland areas would not be an issue.

There are power, utilities, and a serviced airport at the town of Watson Lake, 28 km by a good all-season dirt road, the Robert Campbell Highway, to the southeast of the GMS Claims. Watson Lake in turn is connected by the paved Alaska highway to Fort Nelson, B.C. ( 520 km ) and Whitehorse, Y.T. ( 450 km )

Field operations were headquartered in Watson Lake as it has accommodation, communications and all consumables likely to be needed could be obtained there. Apart from the community, the area is largely uninhabited.

## 3 PROPERTY AND LOCATION

The property comprises 52 contiguous claims, GMS 1-15 and 17-21 and TOM 1-32. The GMS claims are immediately east of the Robert Campbell Highway from 27 to 32 km north from Watson Lake. They straddle the boundaries of $1: 50,000$ topographic and claim map sheets NTS 105/A2, 16 and A7, with the majority of the property being on A2 and A7. The TOM claims lie immediately west of the GMS claims.

Access is excellent along the Robert Campbell Highway, which is paved for the first 10 kilometres north from Watson Lake and thereafter a well maintained, all weather, gravel topped road. Kilometre marker posts are located at most individual kilometre distances. See Figures 1 and 2.

Details of record numbers and anniversary dates of the claims are given in Table 1 and 2. The GMS claims are all registered in the name of Glimmer Resources Inc. In October 1995, Glimmer Resources Inc. and Minfocus International Inc. entered an agreement whereby Minfocus, by making certain expenditures on the GMS Claims property could eam a joint venture interest in the property. The work
described in this report has been undertaken by Minfocus in partial fulfilment of the agreement conditions.

Table 1. Summary of GMS Claims Information

| Claim Name | Grant Number | Registered Owner | $\begin{aligned} & \text { Anniversary } \\ & \text { Date } \\ & \hline \end{aligned}$ | NTS <br> (Claim Sheet \#) |
| :---: | :---: | :---: | :---: | :---: |
| GMS 1 | YB15898 | Glimmer Resources Inc. | 96/08/11 | 105-A-02 |
| GMS 2 | YB15899 | Glimmer Resources Inc. | 96/08/11 | 105-A-02 |
| GMS 3 | YB15900 | Glimmer Resources İnc. | 96/08/11 | 105-A-02 |
| GMS 4 | YB15901 | Glimmer Resources Inc. | 96/08/11 | 105-A-02 |
| GMS 5 | YB15902 | Glimmer Resources Inc. | 96/08/11 | 105-A-02 |
| GMS 6 | YB15903 | Glimmer Resources Inc. | 96/08/11 | 105-A-02 |
| GMS 7 | YB15904 | Glimmer Resources Inc. | 96/08/11 | 105-A-02 |
| GMS 8 | YB15905 | Glimmer Resources Inc. | 96/08/11 | 105-A-02 \& A-07 |
| GMS 9 | YB15906 | Glimmer Resources Inc. | 96/08/11 | 105-A-02 \& A-07 |
| GMS 10 | YB15907 | Glimmer Resources Inc. | 96/08/11 | 105-A-07 |
| GMS 11 | YB15908 | Glimmer Resources Inc. | 96/08/11 | 105-A-07 |
| GMS 12 | YB15909 | Glimmer Resources Inc. | 96/08/11 | 105-A-07 |
| GMS 13 | YB15910 | Glimmer Resources Inc | 96/08/11 | 105-A-07 |
| GMS 14 | YB15911 | Glimmer Resources Inc. | 96/08/11 | 105-A-07 |
| GMS 15 | YB15912 | Glimmer Resources Inc. | 96/08/11 | 105-A-07 |
| GMS 17 | YB15837 | Glimmer Resources Inc. | 96/08/11 | 105-A-02 |
| GMS 18 | YB15838 | Glimmer Resources Inc. | 96/08/11 | 105-A-02, A-06 \& A-07 |
| GMS 19 | YB15839 | Glimmer Resources Inc. | 96/08/11 | 105-A-06 \& A-07 |
| GMS 20 | YB15840 | Glimmer Resources Inc. | 96/08/11 | 105-A-06 \& A-07 |
| GMS 21 | YB15841 | Glimmer Resources Inc. | 96/08/11 | 105-A-06 \& A-07 |

After agreement was reached between Glimmer Resources Inc. and Minfocus International Inc., Minfocus arranged for the staking of an additional 32 claims, the TOM \#1-32 claims, contiguous with and to the west of the GMS claims as geophysical evidence suggested a west dip to the conductive target. Details of the TOM claims are given in Table 2. The registration date of the TOM claims is in December 1995 and apart from one day of geophysical work undertaken in October 1995, all other work described in this report was undertaken after January 15th 1996.

Table 2. Summary of TOM Claims Information

| Claim Name | $\begin{aligned} & \text { Grant } \\ & \text { Number } \\ & \hline \end{aligned}$ | Registered Owner | Anniversary Date | $\begin{aligned} & \text { NTS } \\ & \text { (Claim Sheet \#) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| TOM 1 | YB71276 | Minfocus International Incorporated | 96/12/14 | 105-A-06 |
| TOM 2 | YB71277 | Minfocus International Incorporated | 96/12/14 | 105-A-06 |
| TOM 3 | YB71278 | Minfocus International Incorporated | 96/12/14 | 105-A-06 |
| TOM 4 | YB71279 | Minfocus Internatıonal Incorporated | 96/12/14 | 105-A-06 |
| TOM 5 | YB71280 | Minfocus International Incorporated | 96/12/14 | 105-A-06 |
| TOM 6 | YB71281 | Minfocus International Incorporated | 96/12/14 | 105-A-06 |
| TOM 7 | YB71282 | Minfocus International Incorporated | 96/12/14 | 105-A-06 |
| TOM 8 | YB71283 | Minfocus International Incorporated | 96/12/14 | 105-A-06 |
| TOM 9 | YB71284 | Minfocus International Incorporated | 96/12/14 | 105-A-06 |
| TOM 10 | YB71285 | Minfocus International Incorporated | 96/12/14 | 105-A-03 105-A-06 |
| TOM 11 | YB71286 | Minfocus International Incorporated | 96/12/14 | 105-A-02 105-A-03 |
| TOM 12 | YB71287 | Minfocus International Incorporated | 96/12/14 | 105-A-03 |
| TOM 13 | YB71288 | Minfocus International Incorporated | 96/12/14 | 105-A-02 105-A-03 |
| TOM 14 | YB71289 | Minfocus International Incorporated | 96/12/14 | 105-A-03 |
| TOM 15 | YB71290 | Minfocus International Incorporated | 96/12/14 | 105-A-02 105-A-03 |
| TOM 16 | YB71291 | Minfocus International Incorporated | 96/12/14 | 105-A-03 |
| TOM 17 | YB71292 | Minfocus International Incorporated | 96/12/14 | 105-A-02 105-A-03 |
| TOM 18 | YB71293 | Minfocus International Incorporated | 96/12/14 | 105-A-03 |
| TOM 19 | YB71294 | Minfocus International Incorporated | 96/12/14 | 105-A-02 105-A-03 |
| TOM 20 | YB71295 | Minfocus International Incorporated | 96/12/14 | 105-A-03 |
| TOM 21 | YB71296 | Minfocus International Incorporated | 96/12/14 | 105-A-02 105-A-03 |
| TOM 22 | YB71297 | Minfocus International Incorporated | 96/12/14 | 105-A-03 |
| TOM 23 | YB71298 | Minfocus International Incorporated | 96/12/14 | 105-A-02 |
| TOM 24 | YB71299 | Minfocus International Incorporated | 96/12/14 | 105-A-02 |
| TOM 25 | YB71300 | Minfocus International Incorporated | 96/12/14 | 105-A-02 |
| TOM 26 | YB71301 | Minfocus International Incorporated | 96/12/14 | 105-A-02 |
| TOM 27 | YB71302 | Minfocus International Incorporated | 96/12/14 | 105-A-02 |
| TOM 28 | YB71303 | Minfocus Internatıonal Incorporated | 96/12/14 | 105-A-02 |
| TOM 29 | YB71304 | Minfocus International Incorporated | 96/12/14 | 105-A-02 |
| TOM 30 | YB71305 | Minfocus Intermational Incorporated | 96/12/14 | 105-A-02 |
| TOM 31 | YB71306 | Minfocus International Incorporated | 96/12/14 | 105-A-02 |
| TOM 32 | YB71307 | Minfocus International Incorporated | 96/12/14 | 105-A-02 |



Fig. 1. General Location of GMS and TOM claims in the Watson Lake area, Yukon.


Fig. 2. GMS \& TOM Claims Plan, extracted from Claim Maps 105-A2, A3, A6 and A7

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## 4 PREVIOUS WORK

Attention was drawn to this area and the property first staked to protect geophysical conductors revealed during an extensive investigation in 1981, when an airborne Questor Mark VI Input survey was flown regionally; 1982, when geochemical and some scattered ground based Shootback EM, VLF-EM, magnetometer, gravity geophysical surveys were completed. In 1990 a Max-Min EM ground survey was done. This latest survey by Kent (1990) indicates a strong electromagnetic anomaly, suggestive to the author of massive to nearly massive sulphides, dipping about 60 degrees to the west, at a depth of 150 feet $(45 \mathrm{~m})$. The map which accompanies the report shows the survey to have been on approximately east-west lines spaced at 400 foot intervals, with the strongest portion of the anomaly to be on line 28 N in the case of the 444 mega Hertz response and on Line 24 N for the 1777 mega Hertz frequency response. It should be noted that there is a gap in line coverage from immediately north of 28 N to 37 N due to the presence of a pond. The survey did not define the full length of the conductor. The grid is keyed in to Kilometre 28 Post on the Highway. (The map is stated as having a scale of 1" = 100" but all other labelling on the map suggests a scale of $1 "=200^{\prime}$, which latter has been assumed to be the case in this report)

Comparison of the plotted position of the 1981 airborne Input EM anomaly with the gravity anomaly and the 1990 Max-Min anomaly does not indicate perfect coincidence of each of the conductors and anomalies. The Max-Min anomaly is apparently slightly to the west of the airborne and gravity features. Figure 3 gives a summary of the position of various conductors and anomalies detected during the surveys and protected by claims of Glimmer Resources Inc. and Minfocus International Inc.

## 5 SUMMARY OF WORK COMPLETED IN 1995/96 PROGRAM

After a single day visit in fall 1995, when a short ground VLF-EM traverse was made, the existing airborne and ground geophysical maps of the claims were studied, prior to a March-April survey with ground VLF-EM and Magnetometer units, aimed at relocating the previously indicated conductors, and to choose drill targets. Using the Robert Campbell Highway as baseline, traverse lines at 400 m intervals were cut, blazed and flagged every 50 m . These were tied in by GPS ("Global Positioning System" a satellite based navigation system available in small handheld instruments) at endpoints, or as dictated by local geography. Where circumstances demanded, and as time allowed, certain infill lines at 200 m intervals were flagged, again at 50 m intervals. During the course of this grid establishment several of the old lines dating from the 1990 survey were discovered; and in one case ( 28 N ) legible pickets; and tied in to the new grid which is oriented with a $25^{\circ}$ angular offset ( Old Grid lines are oriented on a true bearing of $085^{\circ}$ and the New Grid lines are oriented at $060^{\circ}$ ). Total length of lines cut, blazed and flagged was 19,385 metres in 18 lines. Of these, 16 lines ( $16,185 \mathrm{~m}$ ) were surveyed with VLF-EM and 3 then resurveyed $(3,200 \mathrm{~m})$ using different stations for the VLF-EM. Ten lines $(8,275 \mathrm{~m})$ were surveyed by magnetometer and 1 line ( 500 m ) resurveyed by magnetometer to attempt to get better results.

Lines in the new grid are numbered according to the distance from Watson Lake of the start point of the line on the Robert Campbell Highway, using the 28 km beacon as base. Hence, line 29200 N starts from the highway at a point $1,200 \mathrm{~m}$ north of the 28 km beacon; i.e. 29.2 km from Watson Lake. Line 27450 N starts from the highway at a point 550 m south of the 28 km beacon; i.e. 27.45 km from Watson Lake.


MINFOCUS INTERNATIONAL INC.
CONDUCTORS AND ANOMALIES

Some discrepancies occur - for example, certain lines cross, and certain lines, put in from east to west, are numbered according to where they were expected to connect to the highway, not according to where they actually connected.

The geophysical work was designed to confirm and relocate the previous geophysical surveys and on the basis thereof, to site diamond drill holes to investigate the nature of the conductors indicated. Three diamond drill holes, totalling 398m were completed in April of 1996.

Dr. Gerald Harper, President of Minfocus International Inc. of Toronto, Ontario, was overall project manager and administrator while field work was undertaken by consulting geologist Dr. Adrian Mann of Ruthrie Enterprises Ltd. of Calgary, Alberta. He was assisted in geophysical surveys by Mr. M. Mann, also of Calgary, Alberta, and personnel of Thronduik Engineering \& Consulting of Watson Lake, Yukon after they had completed line cutting, blazing and flagging.

Drill site access trail construction and diamond drilling were undertaken by D J Drilling Ltd. of Watson lake, Yukon. Trail clean up after completion of drilling was undertaken by George Millen of Watson Lake, Yukon. Analyses of drill core samples were performed by CanTech Laboratories of Alberta, Chauncey Assay Laboratories Ltd. and X-Ray Assay Laboratories, both of Toronto, Ontario. Drill core is presently stored at the D J Drilling Ltd. yard in Watson Lake, Yukon.

## 6 REGIONAL GEOLOGY

The Geological Survey of Canada mapped the area in 1966 (Gabrielse, 1966), which map is published as a $1: 250,000$ scale black line print, without accompanying memoir. He interpreted the area to be underlain by sedimentary rocks of Mississippian and/or Devonian age, although he did show considerable areas in the vicinity of Watson Lake to be obscured by recent cover. The extent of Pleistocene and recent cover is attested to by Klassen and Morison (1981) who mapped the surficial geology. Subsequent work to the north suggested that the age of the rocks was more likely to be Pennsylvanian to Permian and that the this assemblage formed part of an allocthonous package thrust on top of older rocks from the west. A Geological Compilation Map of the southeastern Yukon, compiled by H. Gabrielse, D.H. TempelmanKluit, S.L. Blusson, and R.B. Campbell (1977) at a scale of $1: 1,000,000$ reflects the most recent interpretation and age relationships. Figure 1 includes a summary outline of the major geologic elements taken from Gabrielse et al (1977) map.

Figure 1 also shows the important mineral deposits known in the district. Further to the northwest are the several lead, zinc, silver deposits of the Faro district which have been described by Jennings and Jilson (1983) and the Ketza River gold deposit which was in production in the late 1980s. Immediately to the south in northern British Columbia is the Midway lead, zinc, silver deposit of Regional Resources, which has been bulk sampled by underground development but not yet committed to production.

## 7 GEOPHYSICAL WORK

## MAGNETOMETER SURVEY - Methodology

This survey used a Scintrex Mark II proton magnetometer. Readings were taken at 2.5 m above snow level ( $\pm 4.0 \mathrm{~m}$ total above ground level) in duplicate or triplicate at 10 m or 25 m intervals along the flagged lines. Where rapid rates of change with distance were detected, the interval was cut to 5 m , and traverse direction was reversed temporarily to repeat a portion of the line. When fluctuations of readings occurred in one location, the readings were repeated until a $\pm 3$ gamma reproducibility was achieved. When this was not achieved in 10 repetitions, the magnetometer traverse was abandoned, for repetition on another day. As a matter of course, repeat readings were taken at 1 minute intervals at roughly 500 m intervals, to check for diurnal fluctuations. Where practical, traverses were "jimmy" closed, by merely returning to one or more points near start of the traverse at a later time of day. No second magnetometer, as base station, was used.

Although purists may frown at the methodology, the intent of the survey was not to provide absolute data, but rather to hone in on existing data of high quality, and thereby to choose the best drilling target.

Corrected magnetic values were plotted in profiles for each line in conjunction with the electromagnetic results and are appended as a series of pseudo sections at the rear of this report (Appendix A) for lines:

| 27200 N | 27450 N | 27650 N | 27800 N |
| :--- | :--- | :--- | :--- |
| 28000 N | 28000 N (Repeat) | 28200 N | 28350 N |
| 28350 N (Repeat) | 28600 N 28800 N | 29000 N | 29200 N |
| 29200N(Repeat) | 29600 N 30000 N | 30400 N | 30800 N |
| Glimmer Line 24N |  |  |  |

These lines extend over all GMS claims except GMS \#15 and also cover parts of TOM claims \#5,7,9,23,25 and 31.

## MAGNETOMETER SURVEY - Results

The Magnetometer survey gave very little useful data, or in other words, generally reflected an environment of very low magnetic relief which provided little information with which to build a case to support electromagnetically indicated conductive drill targets. Line 27200 N shows a sharp rise in values some 50 metres east of the Robert Campbell Highway, which was interpreted in the field as being indicative of sharply rising basement, perhaps against a fault. However, neither the 27450 N nor the 27650 N lines, which are close to, or cross, this line show a like change; and a similar profile is lacking in all other lines surveyed. Line 29200 N shows a gentle increase in total field from 300 m to 750 m east of the highway, then an equally gentle decrease by the 1000 m line interval; no conclusions could be reached about the significance or otherwise of this feature.

## ELECTROMAGNETIC SURVEY - Methodology

Using a Ronka EM-16, readings were taken at 10 m or 25 m intervals along the flagged lines. Where rapid rates of change occurred, the interval was cut to 5 m . In the initial stages of the survey, Jim Creek, Seattle (NPG -18600 Hz ) was chosen as source, but difficulties in obtaining precision with the In phase signal engendered a switch, first to Cutler, Maine (NAA -17800 Hz ) and later to Honolulu, Hawaii (NPM -23400 Hz ). This last proved to be the most consistent station, allowing repetition not only on In Phase readings, but also in Quadrature.

On occasion, readings proved impossible, either through atmospherics, or because there was too broad a range for a minimum to be accurately pinpointed.

The lines surveyed, with the Very Low Frequency Transmitting Station Signal used are:

| 27200N - Hawaii | 27450N - Cutler Maine | 27650N - Cutler Maine |
| :--- | :--- | :--- |
| 27800N - Hawaii | 28000N - Cutler Maine | 28000N(Repeat)- Jim Ck |
| 28200N - Hawaii | 28350N - Cutler Maine | 28350N(Repeat)-Hawaii |
| 28600N - Hawaii | 28800N - Hawaii | 29000N - Hawaii |
| 29200N - Hawaii | 29200N(Repeat) - Hawaii | 29600N - Hawaii |
| 30000N - Hawaii | 30400N - Hawaii | 30800N - Hawaii |
| Glimmer Line 24N - Hawaii |  |  |

On the Glimmer Line 24 N the results of the 1990 Max-Min two frequency surveys are plotted for comparison with the VLF-EM response.

In Figure 4 all conductors and drill hole collar locations are plotted in plan. In Figures 5 and 6, the sections through each of the deeper drill holes, the geophysical pseudo sections have been superimposed.

## ELECTROMAGNETIC SURVEY - Results

Line 27200 N shows no crossover, save at the start of the traverse, on the road.
Line 27450 N shows a poor crossover feature, which might represent a weak conductor, at 215 m east of the highway, and another weak feature at 260 m .

Line 27650 N shows weak crossovers at 340 and 390 m east of the highway, and a rather stronger feature from 450 to 475 m (conductor A). This feature appears to strengthen towards the north in other lines, and was chosen as first drill target because of this northward strengthening. The hole was sited on 27650 N line because this falls within a small test clearcut logging area, so minimal disruption of the environment would be caused.

Line 27800 N follows the trail pushed through the black spruce for the drill contractors' water pipeline. It starts at the pumphouse on Robert Campbell Highway, and meanders through the trees to end at DDH


96-1 drill site. A poorly defined crossover at 35 m and another at 165 m east of the road may be related to real conductors, but the presence of muskeg suggests that they are merely surface manifestations.

On Cutler station, line 28000 N shows invert crossovers at 140 and $245 \mathrm{~m}, 460$ to $480,510,750$ and 790 m probably related to shallow conductivity in the muskeg. At 70, and again at 310 m , there are more classical features, indicating strong conductors at depth. Questionable features occur at 825,900,950 and 985 m . In an effort to elucidate which features were the more dominant, the line was resurveyed using Jim Creek, Washington. The result was startlingly different. A clear crossover occurs at 580 m east of the highway, another at 740 m , with a flutter between, giving apparent crossovers at 645 and 720 m . The interpretation is of one body, perhaps 180 m in thickness in a horizontal sense, with conductive zones on the east $(740 \mathrm{~m})$ and west $(580 \mathrm{~m})$ contacts. This seems to correlate with Conductor A, of line 27650 N .

Conductor A is manifest also in Line 28200 N at 670 and 720 m , with invert crossovers at 365 and 415 m .
Line 28350 N was traversed using Cutler Station, then repeated using Hawaii. With the former, crossovers occur at 400 and 525 m . Although the In-Phase curve on Hawaii station follows the same general profile trend, it lacks the cross over. This suggests that if there is a conductor at this position then it has an orientation that is responsive to the Cutler direction but blind to Hawaii. While a conductor at this location would correlate with Conductor A, noted further south, it does not have the strength of the southern expression.

Line 28600 N , traversed using the Hawaii station, shows no features in the east, but has a sequence of poor, possibly muskeg-related inverse crossovers at $270,380,420$ to 470,550 and 580 m east of the road. The $420-470 \mathrm{~m}$ crossover may correlate with Conductor A.

The data on 28800 N from the road to 550 m east is very poor, as it was very difficult to establish a clear definition of minima on the In-Phase readings. No crossovers are interpreted.

Line 29000 N shows a crossover between 120 and 160 east, with a reversion at 245 m , another crossover at 345 m , then no firm features until 1250 m , although hints, perhaps related to muskeg, occur at 1025 , 1050 , and again at 1300,1335 . A positive feature occurs at 1365 m east of the road.

Line 29200 N , run at 10 m intervals tuned to Hawaii on the same day as the problematic survey of Line 28800 N , suffered from the same difficulty in definition up to 350 m east of the road. A clear crossover is indicated at 620 m and from 840 m , a cross over is followed by a deep In-Phase trough which reaches its deepest point at 875 m , with a reversion from 975 m to 1000 m , where the traverse was terminated. Because of the poor data at traverse start, and in view of the positive feature which was incompletely covered at the east end, the traverse was repeated, still using Hawaii, at 25 m intervals, some weeks later. The line was also extended an additional 500 metres eastwards. It should be noted that the "first" crossover is rather more crisply defined at 500 m , the nadir of the trough is at 875 m , the "second" crossover is less precise at 990 to 1060 m , peak In -Phase is at 1180 m , and a third crossover begins to suggest itself at 1400 to 1495 , which is on the eastern claims boundary.

Line 29600 N , again on Hawaii at 25 m intervals, repeats these same features as seen in 29200 N . A crossover near the road may have some significance. The "first" crossover is again visible at $325-430 \mathrm{~m}$,

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with the same deep In-Phase trough at 600 m , the "second" crossover from 775 to 975 , the zenith at 1100 m , and the "third" at 1250 .

The pattern is less distinct on lines $30000 \mathrm{~N}, 30400 \mathrm{~N}$ and 30800 N , which were all surveyed at 25 m intervals. The "first" crossover appears on line 30000 N at 430 m , reappears at 165 m on line 30800 N , but is not manifest between the two. The "second" appears on 30000 N at 1025 m , and on 30400 N at 750 m , but is not seen in the north. The "third" occurs in the north at 1060 m , on 30400 N at 1175 m , but disappears to the south.

Line 24 N , in the Glimmer grid, while obliquely oriented to the present survey lines can be considered as being in the vicinity of present lines 29200 N to 29600 N . The strong Max-Min EM conductor shown in their 1777 Hz and, to a lesser extent, in their 444 Hz surveys, was not reflected in the VLF-EM traverse run in the current survey. Rather, there is a hint (at 150 m west of the baseline) of the "first" conductor seen on 29200 N and 29600 N , and there is a definite crossover at 510 m east of the baseline, coinciding with the "second" crossover of the same lines. The Max-Min surveys did not extend sufficiently far to the east or west to cross these features.

## 8 DIAMOND DRILLING - Operational Procedure

Three diamond holes, totalling 398m were drilled on the property during April 1996. Drilling contractor was DJ Drilling of Watson lake, Yukon who provided equipment and crews to drill 24 hours per day. Due to the proximity to the town of Watson lake, no camp was established and each drill shift commuted to and from the drill site. Due to the expected deep overburden that was implied by the terrain it was determined to start each hole using " H " size equipment and then to reduce down to " N " size as appropriate or when forced to do so by drilling conditions. Such an approach provided a fallback in being able to reduce to " $B$ " and even " $A$ " size in the extreme. In the second hole " $B$ " size rods were ultimately resorted to but the other holes were drilled with " H " then " N ". Rock conditions for drilling were generally bad with extremely thick overburden, slow penetration rates, broken ground, shattering siliceous chips and excessive diamond drill bit wear. Various muds were tried but none was found to assist progress materially.

The first hole, GMS 96-1, at UTM N6677524, E0501407, was collared oriented at $-80^{\circ}$ towards $065^{\circ}$ (True), was drilled to intersect the hinted southern extension of "Conductor A" on line 27650 N at 450 E (Fig 3). Overburden, comprising glacial debris, boulders, gravels and clays extended to 34 m (hole depth), beneath which is a clearly volcanic sequence of very young rocks, presumably Tertiary, down to 70 m , overlying scarcely consolidated claystones, siltstones, sandstones and lignites to 97 m . An oligomictic breccia, probably of tectonic origin, with clasts of the overlying sediments to 100 m , and clasts of the underlying andesites to 103 m , marks the transition from this younger sedimentary zone into much older, indurated, and silica impregnated andesitic lavas. These lavas extended for the balance of the hole depth till technical drilling difficulties forced aborting the hole at 148 m .

The second hole, GMS 96-2A, at UTM N6679161, E0500487, was oriented at $-75^{\circ}$ towards $090^{\circ}$ (True) and was drilled to intersect the strong Max-Min anomaly on Glimmer 24 N line at 300 m east of the baseline. The hole was aborted in claystone at 45 m after a cone from the tricone overburden bit broke off in the hole.

The third hole, GMS 96-2, sited 2 m distant from the second, was drilled for the same target as the aborted second hole (Fig 3). It was also oriented at $090^{\circ}$ (True)strike and with collar dip of $-70^{\circ}$. Overburden of glacial debris, gravels and clays extended to 35 m , beneath which are Tertiary sediments, mostly bentonitic claystones (perhaps after felsic pyroclastics?) to 48 m , and shales, arkosic arenites, siltstones, carbonaceous shales and interbedded lignites to 130 m . A quartz-chert breccia extends from here to the end of hole at 205 m , where drilling was abandoned without reaching any feature which would be a satisfactory explanation of the Max-Min anomaly.

The drillhole logs are reproduced in Appendix C. No log was made of GMS 96-2A, because it did not reach bedrock. No section was drawn either as it effectively parallels Hole GMS 96-2. Assay values for gold are listed in parts per billion.

Holes GMS 96-2A and GMS 96-2 are located on Claim GMS \#8 and hole GMS 96-1 is located on Claim GMS \#1.

## DIAMOND DRILLING - Interpretation of Results

Neither hole reached any feature which adequately explains the conductor indicated by the geophysics. Fig 7 is a schematic compilation of the two holes GMS 96-01 and 02, to indicate the interpretation which these two holes require to explain the geology observed. The eastern fault is inferred as an explanation of the conductor. The thick Tertiary sedimentary and volcanic pile is manifest in the holes. The volcanics being more apparent and thicker in the south and east than in the north and west. The inference is that they are localised by the faulting, which also serves as a limiting feature to the graben into which the sediments were deposited.

Although gold values are decidedly subeconomic (see Appendix B for assay results and Appendix C for drill logs showing assayed intervals), the values returned from the Tertiary felsic volcanics and kaolinized arkose, which in itself may be a volcanic, are higher than one would expect for like rock types in an unmineralized environment. Is the fault perhaps a channelway for percolating hydrothermal activity? Is this perhaps a hint of Poulsen's (1996) Carlin type mineralization, which he suggests may be found in the Ketza River-Pelly Mountains-Cassiar Platform-Midway areas of the Yukon and northern B.C.. Certainly the model seems to fit, and bears further investigation.

GMS CLAIM BLOCK
DIAMOND DRILL HOLE GMS 96-01 ALONG GMS 27650 N LINE TOTMRDS 06sT ONSURETEYED -60 UNSURTIEKSD

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## 9 CONCLUSIONS and RECOMMENDATIONS

No economic values were found in the drilling program and the original target concept of a massive sulphide, polymetallic, conductive body is now deemed to be very unlikely to exist for two reasons. Firstly because such was not intersected by the drilling. Secondly the combined depth of overburden and flat lying Tertiary strata was found to be so deep that the ability of geophysics to see massive sulphide type conductors in the favourable host rocks beneath is severely limited. The presence of silicified and brecciated fault or thrust related units suggests that there may be some potential for economic gold mineralization of the Carlin-type. A rather more theoretical study must be done before a model can be developed allowing more precise targets for gold mineralisation can be designated.

I, Gerald Harper 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 and a Fellow of the Geological 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. and the joint venture with Glimmer Resources Inc.
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 field examinations and review of compiled data by me in April and July 1996.

## I, Adrian Gardiner Mann do hereby certify that:

1. I am a graduate of the Universities of London, England and Witwatersrand, South Africa.
2. I hold the degrees of:

> Ph.D.,
M.B.A.
B.Sc. (General Honours) in chemistry and geology
B.Sc. (Special Geology) (Honours)
3. I have practiced my profession continuously since 1965. My experience was gained in central and southern Africa, south and north America.
4. I am a member in good standing of the Society of Economic Geologists, the Canadian Institute of Mining, Metallurgy and Petroleum, Institution Mining and Metallurgy, the Geological Society of South Africa.
5. I am registered in Alberta as a Professional Geologist and in Britain as a Chartered Engineer.
6. This report is a fair and honest reflection of the geology of the claims and their immediate surrounds.
7. The data on which opinions expressed in this report are made is derived from:

1) Examination of the reference material cited
2) Examination of data furnished by the company
3) Field work in October/November 1995 and February-April 1996 when geophysical surveys were run and drilling was supervised and core logged.
8. I have no interest in these properties, nor in Minfocus International Inc., nor do I expect to receive any such interest.

Adrian G. Mann Ph.D., P.Geol., Calgary, Alberta<br>August 6, 1996

| Name | Affiliation | Address | Function | Period |
| :---: | :---: | :---: | :---: | :---: |
| Gerald Harper | Minfocus International Inc | Toronto | Overall <br> Supervision report preparation | Oct. 95-Aug. 96 |
| Adrian Mann | Ruthrie Enterprises Ltd. | Calgary |  <br> Geophysical <br> Surveys, core <br> logging \& report preparation | Oct. 95-Jul. 96 |
|  | D J Drilling Company Ltd. | Watson Lake | Drill access roads construction Diamond drilling | Mar.96-Apr. 96 |
|  | Thronduik Engineering and Consulting | Watson Lake | Line cutting and geophysical surveys | Feb. 96-Mar. 96 |
| Michel Mann |  | Calgary | Geophysical surveys | Feb.96- Mar. 96 |
| George Millen |  | Watson Lake | Drill road and site rehabilitation | Apr.96-May 96 |
|  | Can-Tech Laboratories Inc. | Calgary | Drill core analyses | Apr.96-May 96 |
|  | Chauncey Assay Laboratories Ltd. | Toronto | Drill core analyses | Apr.96-May 96 |
|  | X-Ray Assay Laboratories | Toronto | Drill core check analyses | Apr.96-May 96 |
| D. Collins | Gamah International Limited | Toronto | Report typing and maps preparation | August 1996 |
| K. S. Harper | Gamah International Limited | Toronto | Report typing and maps preparation | August 1996 |

## STATEMENT OF COSTS

| Item | Details | Amount |
| :---: | :---: | :---: |
| Accommodation | Gateway Motel, Watson Lake re G Harper, A.G. Mann and M. Mann field work | \$ 1,441.01 |
| Analyses |  | \$ 1,019.45 |
| Communications | Telephone, courier and shipping of samples \& instruments | \$ 930.94 |
| Diamond Drilling | Contractor payments to D J Drilling for footage drilled, mobilisation, access route preparation, core boxes and consumables, $G$ Millen for access route clean up. | \$64,190.54 |
| Meals | Watson Lake and field | \$ 800.41 |
| Personnel-Geology | Time for A.G. Mann, M Mann and G Harper | \$ 15,064.19 |
| Personnel - Admin | Time for K Harper and D Collins | \$ 62.50 |
| Physical Work | Line cutting time, Thronduik Engineering and Consulting and expenses inc misc field supplies | \$ 4,158.01 |
| Rentals | Vehicles, geophysical instruments | \$ 2,149.92 |
| Travel | Air transport to and from Watson Lake | \$ 1,012.86 |
|  | Total: | \$90,829.83 |

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

## 13 REFERENCES

Gabrielse H. (1966) Map 19-1966, Geology Watson Lake, Yukon Territory, Scale 1:253,440, NTS 105 A, Geological Survey of Canada.

Gabrielse H., Tempelman-Kluit D.J., Blusson S.L., and Campbell R.B. (1977) MacMillan River, Yukon - District of Mackenzie - Alaska 1:1,000,000 Geological Atlas, Sheet 105, 115, Geological Survey of Canada

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## APPENDIX A

## MINFOCUS INTERNATIONAL INC.

GMS CLAIM BLOCK<br>VLF-EM TRAVERSE ALONG 27200N LINE

## ***** IN PHASE quadrature

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## MINFOCUS INTERNATIONAL INC.



## MINFOCUS INTERNATIONAL INC.



## MINFOCUS INTERNATIONAL INC.

GMS CLAIM BLOCK
VLF-EM TRAVERSE ALONG 27800N LINE

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GMS CLAIM BLOCK


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## MINFOCUS INTERNATIONAL INC.

***** IN PHASE -... QUADRATURE MAG - GAMMA

GMS CLAIM BLOCK
VLF-EM TRAVERSE ALONG 29200N LINE


# MINFOCUS INTERNATIONAL INC. 



## MINFOCUS INTERNATIONAL INC.

***** IN PHASE - MUADRATURE --- MAG - GAMMA

GMS CLAIM BLOCK
VLF-EM TRAVERSE ALONG 29600N LINE


## MINFOCUS INTERNATIONAL INC.



## MINFOCUS INTERNATIONAL INC.



## MINFOCUS INTERNATIONAL INC.



## MINFOCUS INTERNATIONAL INC.

GMS CLAIM BLOCK
VLF-EM \& MAX-MIN ALONG GLIMMER 2AN LINE


APPENDIX B





## CERTIFIEATE 0 F andicys

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REPORT NO：：FT－SATS－WEPEATS SAMPLES OF：ROCKS
DATE RECEIVED：PAY 6.1996 ATTENTION：MR．EERALD HARPER

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# CERTIFICATE OF ANALYSIS REPORT 6840 

TO: GAMA INTERNATIONAL LIMITED

ATTN: GERALD HARPER
1243 ISLINGTON AVENUE
SUITE 707
TORONTO, ONTARIO
M8X 1 Yo

CUSTOMER NO. 4000
DATE SUBMITTED
14-May-96

WORKORDER 8380-
TOTAL PAGES 1

10 PULPS

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## APPENDIX C




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MINFOCUS INTERNATIONAL INCORPORATED


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December 1996

On the basis of an existing airborne magnetic and electromagnetic study, supported by ground Max-Min EM and Gravity profiles, the claim block was surveyed for ground magnetics and VLFEM to locate suitable drill targets. Eleven lines were flagged for a total of $20,500 \mathrm{~m}$, of which 10 , 450 m in 11 lines were surveyed by VLF-EM, and $10,200 \mathrm{~m}$ in 10 lines surveyed by magnetometer. A total of 216 m in 2 diamond drill holes was completed. No economic mineralization was encountered.
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A winter exploration program was carried out on the CAM claims comprising linecutting, magnetic and EM surveys in March and April 1996, followed by a two hole drilling program, also carried out during April 1996. This report describes the results of the geophysical surveys and the details of the drilling program.

## 

The CAM claims are located approximately 50 km north of Watson Lake, in the Watson Lake Mining District, Yukon Territory (Figures 1 and 2).

Daily jet service is available from Vancouver to Whitehorse with onward continuation by turbo prop commuter planes to Watson Lake ( 450 km east of Whitehorse), 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 Fort Nelson, B.C. ( 520 km ) by the Alaska Highway (Route 1). Running northwest from Watson Lake to Carmacks is the all-weather Robert Campbell Highway (Route 4) which provides direct access to the CAM claims. 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. All food supplies may be obtained from Watson Lake. The town also hosts the Mining Recorders Office for the Watson Lake Mining Division which encompasses the CAM claims, where claim maps and other information is accessible.

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. The climate is adequately described in earlier assessment reports - suffice it to say that this is the Yukon, where winters are long and bitter, but it is not the Northwest Territories, so there is some respite from the weather when a Chinook blows in.

The CAM claims straddle the west side of the Robert Campbell Highway from kilometre 50 to 53 (as measured from the town of Watson Lake) on map NTS 105/A6. Access is excellent along this highway, which is well maintained, all weather, and gravel topped.

Field operations were headquartered in Watson Lake and all consumables could be obtained there. Apart from the settlement, the area is largely uninhabited, but skills and equipment are available locally, both among local natives, and in the town itself.
3, © POPERTY OWERSHR
The registered owner of the CAM claims is Minfocus International Incorporated. Table 1 gives details of record numbers and anniversary dates for the claims. The registration dates of the CAM claims are October 1995. All work described in this report was undertaken after January 1996.


Figure 1
General Location Map
Yukon Highway Map, 1982

CAM Claims


The CAM claims consist of 32 contiguous claims numbered 1-32. The group falls entirely on the 1:50,000 topographic and claim map sheets of NTS 105A-6 (Figure 3).The geophysical surveys covered all claims as shown in Figure 3 while the drilling was conducted on CAM 10 and 25.

A winter exploration program was carried out on the CAM claims, comprising linecutting, magnetic and EM surveys conducted in March and April of 1996, followed by a two hole drilling program also during April 1996. This field exploration program was conducted on behalf of Minfocus International Inc. by the consulting group of Gamah International Limited. Geophysical survey work was undertaken by geologist Dr. Adrian Mann, who was assisted by Mick Mann and by the company of Thronduik Engineering and Consulting. The drilling was contracted to DJ Drilling Company Ltd. of Watson Lake, Yukon. For a complete summary of all personnel and contractors employed during this period, refer to section 11.0.

Table 1
Summary of CAM Claims Information

| Claim <br> Name | Grant Number | Registered Owner | Anniversary Date | NTS (Claim Sheet \#) |
| :---: | :---: | :---: | :---: | :---: |
| CAM 1 | Y1869893 | Minfocus International Inc. | 10-Oct-96 | 105A-6 |
| CAM 2 | YB69894, | Minfocus Internatonal Inc. | 10-Oct-96.sis | 105A-6 |
| CAM 3 | YB69895 | Minfocus International Inc. | 10-Oct-96 | 105A-6 |
| CAM 4 | YB69896 | Minfocus International Inc. | 10-Oct-96. | 105A-6 |
| CAM 5 | YB69897. | Minfocus International Inc. | Ci 10-Oct-96 | 105A-6 |
| CAM6 | YB69898: | Minfocus International Inc. |  | 105A-6 |
| CAM7 | ${ }^{7} \mathrm{YB69899}{ }^{\text {c }}$ | Minfocus International Inc. | \% " 10-Oct-96. ys | 105A-6 |
| CAM 8 | : YB69900 | Minfocus International Inc. | \% $10-\mathrm{Oct}-96 \mathrm{csin}$ | 105A-6 |
| CAM9 | 7869901 | Minfocus International Inc. | F', 10-0ct- 96 mix | 105A-6 |
| CAM 10 | Y YB69902 | Minfocus International Inc. |  | 105A-6 |
| CAM 11 | YB69903 | Minfocus International Inc. | 5e- $10-0 \mathrm{ct}-96 \mathrm{mbk}$ | 105A-6 |
| CAM 12 | YB69904 | Minfocus International Inc. | \% 10-Oct-96 | 105A-6 |
| CAM 13 | MB69905: | Minfocus International Inc. | - : 10-0ct-96is. | 105A-6 |
| CAM 14 | YB69906. | Minfocus International Inc. |  | 105A-6 |
| CAM 15 | Y869907 | Minfocus International Inc. |  | 105A-6 |
| CAM 16 | YB69908 | Minfocus International Inc. |  | 105A-6 |
| CAM 17 | 7 XB69909 ${ }^{\text {a }}$ | Minfocus International Inc. | Wh: 10-0ct 96.18 | 105A-6 |
| CAM 18 | \% \% 869910 | Minfocus International Inc. |  | 105A-6 |
| CAM 19 | YYB69911 | Minfocus International Inc. | 2min 10-0ct 96.8 | 105A-6 |
| CAM 20 | Y 4 P69912 | Minfocus International Inc. | C, 10-Oct-96. | 105A-6 |
| CAM 21 | C7B69913 | Minfocus International Inc. |  | 105A-6 |
| CAM 22 | YY169914 | Minfocus International Inc. | 4 | 105A-6 |
| CAM 23 | [8B69915.6 | Minfocus International Inc. |  | 105A-6 |
| CAM 24 | 4. YB69916. | Minfocus International Inc. |  | 105A-6 |
| CAM 25 | (x)669917\% | Minfocus International Inc. |  | 105A-6 |
| CAM 26 | 5x966918 | Minfocus International Inc. |  | 105A-6 |
| CAM 27 | ervic9919] | Minfocus International Inc. |  | 105A-6 |
| CAM 28 | \% $2869920{ }^{2}$ | Minfocus International Inc. | 15, 10-Oct 96 4, | 105A-6 |
| CAM 29 | 4 1B69921 | Minfocus International Inc. | 463100ct-95 503 | 105A-6 |
| CAM 30 | Y369922 | Minfocus International Inc. | W | 105A-6 |
| CAM 31 |  | Minfocus International Inc. | Whymo-0ct96 | 105A-6 |
| CAM 32 | Y4869924* | Minfocus International Inc. | 14340.0ck $96{ }^{\text {\% }}$ | 105A-6 |



## 

The property was the subject of an extensive investigation in 1981, when an airborne Questor Mark VI Input survey was run regionally; and 1982, when a geochemical survey was done. The geophysics indicated a strong linear magnetic anomaly in the south east corner of the claims, extending beyond the surveyed area into the claims along a direction of $330^{\circ}$. The anomaly coincides with several 5 and 6 channel conductors (Figure 4).

## 5. PSUMMARYO WORK COMPLTED INI995/96 PROGRAM

After a single day visit in fall 1995, when a 2000 m ground borne VLF-EM traverse was made, the existing airborne geophysical maps of the claims were studied, prior to a March-April survey of VLF-EM and magnetometer, aimed at locating the previously indicated conductors (Figure 4) with more precision, and to choose drill targets. Using the Robert Campbell Highway as a baseline, $1,850 \mathrm{~m}$ long traverse lines at 400 m intervals were blazed and flagged every 50 m (Figure 5). These were tied in by GPS at endpoints, or as dictated by local geography. Total length of lines blazed was 18,500 metres in 10 lines. Of these, all lines were surveyed, but not over their entire flagged distances. The VLF-EM was used over a total of $8,450 \mathrm{~m}$; and the magnetometer over a total of $10,200 \mathrm{~m}$.

Lines were numbered according to the distance from Watson Lake of the start point of the line on the Robert Campbell Highway, using the 50 and 52 km beacons as bases. Hence, line 51600 N starts from the highway at a point $1,600 \mathrm{~m}$ north of the 50 km beacon (i.e. 51.6 km from Watson Lake).

Where rock outcrop was noted, samples were taken and submitted for analysis.
The geophysical work was designed to confirm the pre-existing airborne work, and, on the basis thereof, to site diamond drill holes to investigate the nature of the conductors indicated. Two diamond drill holes, totalling $710 \mathrm{ft}(216 \mathrm{~m})$ were completed in April of 1996.

### 6.0 SURFACEROCKGEOCHEMISTRYM,

Where rock outcrop was noted, samples were taken and submitted for analysis (results found in Appendix A). The only two outcrops seen were in the extreme south of the claims block, on the eastern edge of the Cabin Creek Canyon. On line 50400 N at 930 W of the road, is an outcrop of sheared andesitic pyroclastic. The same rock type was noted at 51200 N at 720 W of the road, here shot with vein quartz and severely brecciated in part. Gold values are encouraging, at 21-35 ppb , which is unusually high. Of particular interest is the lead value in the sample taken at $50400 \mathrm{~N}, 930 \mathrm{~W}$.

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### 7.1 Magnetometer Survey - Methodology

The survey used a Mark II proton magnetometer. Readings were taken at 2.5 m above snow level ( $\pm 4.0 \mathrm{~m}$ total above ground level) in duplicate or triplicate at 10 m or 25 m intervals along the flagged lines. Where rapid rates of change with distance were detected, the interval was cut to 5 m , and traverse direction was reversed temporarily to repeat a portion of the line. When fluctuations of readings occurred in one location, the readings were repeated until a $\pm 3$ gamma


reproducibility was achieved. As a matter of course, repeat readings were taken at 1 minute intervals at roughly 500 m intervals, to check for diurnal fluctuations. Where practical, traverses were "jimmy" closed, by merely returning to one or more points near start of the traverse at a later time of day. No second magnetometer, as base station, was used.

Although purists may frown at the methodology, the intent of the survey was not to provide absolute data, but rather to hone in on existing data of high quality, and thereby to choose the best drilling target.

### 7.2 MAGNETOMETER SURVEY - Results

The magnetometer survey gave the most useful data (Appendix B).
Line 50000 N , which was surveyed from 500 m to 1150 m west of the Robert Campbell Highway, shows a sharp peak to 250 nT above regional background of 58270 nT at 860 m . The peak is roughly symmetrical, and the anomaly covers some 110 m from 840 m to 950 m .

Line 50400 N , surveyed from the road to 950 m west, shows the same sharp peak at 770 m , now starkly asymmetric, with a slight dip of 20 nT at 740 m , then a sudden rise to 380 nT above regional background of 58240 nT . to the peak, and a rather more gentle descent on the west side, to return to background by 900 m . Note that brecciated greenschust facies pyroclastics were observed at 930 m on the immediate east bank of the Cabin Creek canyon.

Line 50800 N , surveyed from the 500 m mark to 1600 m west, has a dual peak. There is a slight dip of 20 nT in readings from 645 m to 660 m , a gradual recovery to 700 m , then a very sharp rise of 220 nT to a peak at 740 m , a more gentle drop almost to background at 810, where another sharp rise occurs, peaking somewhat below the previous ( 140 nT above background) at 830 m , then dropping off sharply to return to the regional background of 58220 nT by 845 m . Note that there is a subtle 20 nT increase in background at 990 m , which may indicate a change in underlying lithology.

Line 51200 N , surveyed from 500 m to 1800 m west of the road, is perhaps the type section of the claims. There is a sharp 70 nT drop from the regional background at 630 m to 650 m , followed by a sharp rise to 380 nT above background, peaking at 670 m . To the west, the drop-off is less rapid; with a second, lesser peak of 280 nT at 710 m , and final return to background by 810 m . There is again a subtle 10 nT rise in background at 1050 to 1100 m . Note that there is again outcrop on the east bank of the canyon at 730 m .

Line 51600 N , surveyed from 500 m to 1400 m west of the road, shows the eastern dip of 20 nT from 640 to 690 , then a fairly sharp rise of 250 nT to a broader peak than hitherto at 750 m . The western drop is again more gentle than to the east, with equilibrium reached by 850 m , but at a plane markedly higher ( 70 nT ) above the level to the east of the peak. The level drops slightly ( 30 nT ) at 1100 m .

Line 52000 N , surveyed from the road to 1400 m west of the road, has a gentle drop of 60 nT below background from 410 m to its deepest point at 710 m . After a gentle rise of 40 nT by 750 m , the readings rise sharply to a 550 nT peak at 750 m , followed by the gentle western drop to background by 850 m . There is a small, 30 nT secondary peak at 1160 m , covering the zone from 1120 m to 1220 m , then a drop over 200 m to end about 50 nT below the level at which the survey started.

Line 52400 N , surveyed from 400 m to 1300 m west of the road, has a very small dip, of 10 nT over 20 m at 900 m , then a sharp rise to a narrow peak of 350 nT at 940 m , and an equally sharp

## GAMAH INTERNATIONAL LIMITED

drop to 100 nT above base by 960 m . There is a pronounced shoulder in the profile from 960 to 1010 m . Thereafter, the drop is very gentle to return to background by 1170 m .

Line 52800 N , surveyed from 500 m to 1700 m west of the road, is more symmetrical than the other lines, with a gentle rise of 70 nT from 700 m to 820 m , then a sharper rise of a further 200 nT , peaking at 900 m , before dropping back to a plateau of some 80 nT above the east by 1050 m .

Line 53200 N , surveyed from 500 m to 1400 m west of the road, is subdued. The peak is broad, from 640 m to 900 m , and only reaches 110 nT above eastern background. Values to the west are again elevated by some 40 nT relative to the east.

Line 53600 N , surveyed from 500 m to 1400 m west of the road, is again subdued, and broad, being almost a repeat of the previous line. The rise begins at 650 m , peaks to 100 nT above background, at 725 m to 750 m , then returns to base by 900 m , the western drop-off being slightly less sharp than the eastern rise.

### 7.3 Electromagnetic Survey - Methodology

Using a Ronka EM-16, readings were taken at 10 m or 25 m intervals along the flagged lines. Where rapid rates of change occurred, the interval was cut to 5 m . In the initial stages of the survey, Cutler, Maine (NNN - 00000 Hz ) was chosen as source, but difficulties in obtaining a signal engendered a switch, to Honolulu, Hawaii (NNN - 00000 Hz ). This latter proved to be the more consistent station, allowing repetition not only on In Phase readings, but also in Quadrature.

On occasion, readings proved impossible, either through atmospherics, or because there was too broad a range for a minimum to be accurately pinpointed.

### 7.4 Electromagnetic Survey - Results

Results were not very satisfactory (Appendix B).
Line 50000 N shows a single doubled crossover at 1040 m , returning at 1080 m . This coincides with a slough or pond at the bottom of the Cabin Creek canyon. The line was surveyed from 500 m to 1150 m , using the Cutler Station.

Line 50400 N shows a hint of a crossover at 640 to 650 m , and another at 750 to 770 m , coinciding with the eastern sharp rise of the magnetic feature. The line was surveyed from the road to 950 $m$, using the Cutler Station.

On line 50800 N , some difficulty was encountered in obtaining a quadrature reading from 600 m to 900 m , the most critical zone, where the magnetic anomaly occurs. A weak conductor is indicated between 1050 m and 1150 m . The line was surveyed from 500 m to 1500 m , using the Cutler Station.

Line 51200 N was surveyed from 500 m to 850 m , using the Cutler Station. There are no crossovers, and the readings appeared to be fairly consistent and acceptable. There is a subtle suggestion of a poor conductor at 660 to 670 m , which coincides with the eastern edge of the magnetic anomaly.

Line 51600 N was surveyed from 500 m to 1400 m . After the difficulties experienced with Cutler, a switch was made to Hawaii, which proved easier to hear, and appeared to give better
resolution. An inverted crossover was noted at 550 m , returning at 600 m , and appearing to coincide with the transition from slough and black spruce to more open pine and white spruce parkland. There is a subtle hint of conductor at 710 m , which coincides with the eastern side of the magnetic feature. Inverse anomalies occur at 810 to 850 m and from 930 to 1070 m . A weak conductor is indicated at 1100 m , coinciding with the slight drop in background magnetic signal. A muskeg induced anomaly occurs at 1350 m .

Line 52000 N was surveyed from 400 m to 1300 m . No strong feature emerged from much of the east of this survey. There is a suggestion of a conductor at 520 m , and again at 570 m . A confused, repetitive, crossover occurs from 920 m to 1030 m , and a very clear conductor, albeit weak, is indicated at 1240 m , coinciding with the drop in background magnetic readings.

Line 52400 N was surveyed from 400 m to 1300 m . The eastern conductor which appeared in the previous line is more strongly developed between 475 m and 520 m . The eastern edge of the magnetic anomaly is again reflected in a subtle hint of crossover at 910 m to 930 m , which becomes more positively manifest by 1020 m , which coincides with the western end of the shoulder on the magnetic anomaly.

Line 52800 N was surveyed from 500 m to 1500 m . In-phase readings were not satisfactory. The eastern edge of the magnetic anomaly is again reflected in a subtle hint of a weak conductor from 830 m to 850 m west. The west, is blurred, and indistinct.

Line 53200 N was surveyed from 500 m to 1450 m . There is no conductor coinciding with the eastern edge of the magnetic anomaly, but a subtle crossover and back occurs at 875 m W . The crossover at 1100 mW , and the reversion at 1340 m W are both very clear.

Line 53400 N was surveyed from 500 m to 1400 m . The west margin of the magnetic anomaly is reinforced as a good conductor. Further to the west, the picture is blurred.

## 

### 8.1 Operational Procedure

Two diamond holes, totalling 216 m were drilled on the property during April 1996. The first was drilled on CAM \#25 while the second was drilled on CAM \#10 (Figure 5).

The first, CAM 96-3, at UTM N6698398, E0494475, declined -75 ${ }^{\circ}$ towards $074^{\circ}$ (True), was drilled to intersect the magnetic anomaly on line 52000 N at 450 W . Overburden, of glacial debris extended to 10.5 m , beneath which is a metasedimentary sequence of shales and phyllites to 30.5 m , with intermittent crush and mylonitic fault zones. The metasediments are interfingered with andesites down to 101.8 m , where a crush zone of unconsolidated black breccia separates the metasedimentary and volcanic sequence from a clearly intrusive and strongly magnetic serpentinite from 106.7 m to end of hole at 126.5 m (Figure 6).

The second hole, CAM 96-4, at UTM N6698663, E0494205, declined -600 towards $074^{\circ}$ (True), was drilled to intersect the strong magnetic anomaly on line 51600 N at 735 to 775 W , and the eastern conductor at 710 W . Overburden, of glacial debris, extended to 28 m , beneath which are the same metasediments, with interfingered mylonite, to 44.5 m . The mylonites become dominant thereafter, with a black aphanitic dyke from 49 to 50 m , beneath which is an intensely silicified andesite band to 53 m . The mylonite, with minor intercalations of graphitic phyllite, continues to 81 m , where serpentinite was encountered. The hole was stopped in unmineralized serpentinite (Figure 7).

Figure 6



Figure 7
CAM CLAM BLOCK


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The drillhole logs are shown in the accompanying schedules (Appendix C). There are no sulphides in the serpentinite. Disseminated discrete sulphide crystals, and some veins of pyrite and pyrrhotite occur throughout both cores, concentrated in the mylonites and peripherally to quartz veins. No appreciable gold or base metal values are associated with these sulphides.

### 8.2 INTERPRETATION OF RESULTS

Both holes intersected a strongly magnetic serpentinite, which correlates with the strong magnetic anomaly of the airborne and ground geophysical survey. The slightly offset, and discontinuous, conductors are probably manifestations of the contacts of this mafic intrusive, and of the faults observed. The graphitic phyllites are also probable candidates as conductors.

That there is no sulphide mineralization associated with the serpentinite is sad. That there is little gold or base metal value associated with the disseminated sulphides in the mylonites and quartz flooded vein structures is also disappointing.

### 9.0 CONCLUSIONS AND RECOMMENDATIONS

No economic values were found in the drilling program. However, the interesting lead and gold values in the surface sampling cannot be passed over. The intensity of alteration and mineralization in much of the andesitic rock cored, and most especially in the mylonites, gives encouragement for continuing exploration in the area. It is certain that there has been intense tectonuc activity, and there is no doubt that the area has been permeated by mineralizing fluids, and that a plumbing system for those fluids must have existed close to where these holes were drilled. The conductors noted in the airborne and ground surveys can be ascribed to minor shearing and graphitic phyllites in part, even in whole, perhaps; but that there is mineralization, and anomalous gold and lead values in the only two rock outcrops found has to be more than pure chance. The problem will be how to look, and where to focus the future search. To the northwest, there is likely to be increasing Tertiary and glacial cover. To the southeast is swamp.

Were the boreholes stopped short? The barrenness of the serpentinites suggested that to continue drilling in them, hoping for mineralization within these ultramafics, would have been futile. In retrospect, perhaps a hole pushed through, to eliminate the possibility of mineralization on or near the footwall of the serpentinite might have been a fair gamble.

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 practised 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.


I, Adrian Gardiner MANN, undersigned, certify that:

1. I am a graduate of the Universities of London, England and Witwatersrand, South Africa;
2. I hold the degrees of:

Ph.D.,
M.B.A.,
B.Sc. (General Honours) in chemistry and geology,
B.Sc. (Special Geology)( Honours);
3. I am a member in good standing of:

Society of Economic Geologists, Geological Society of South Africa, Institution of Mining and Metallurgy, Canadian Institute of Mining, Metallurgy and Petroleum;
4. I am registered:
in Alberta as a Professional Geologist, in Britain as a Chartered Engineer;
5. I have practiced continuously as a geologist since first I graduated in 1965. My experience was gained in central and southern Africa, south and north America;
6. This report is a fair and honest reflection of the geology of the claims and their immediate surrounds;
7. The data on which opinions expressed in this report are made derive from:

Examination of the reference material cited;
Examination of data furnished by the company;
Winter field mapping, with heavy snow cover, traversing all lines cited, some with VLF, some with magnetometer, and core logging.
8. I have no interest in these properties, nor in MINFOCUS INTERNATIONAL INC., nor do I expect to receive any such interest.

| NAME | Cxarmiaiionder | Address |  | Périod |
| :---: | :---: | :---: | :---: | :---: |
| Gerald Harper | IRternatonal me: | Toronto | QverailSupervision teport preparation: | $\begin{gathered} \text { Oct. } 95-\text { Aug } \\ 96 \end{gathered}$ |
| Adrian Mann |  | Calgary |  | Oct 95-Jul 96 |
|  | $\qquad$ | Watson Lake |  | $\begin{gathered} \text { Mar 96-Apr } \\ 96 \end{gathered}$ |
|  | Thronduik <br> Ergineeringand Consulting | Watson Lake | Sinecutting and geophysticalsurveys | $\begin{gathered} \hline \text { Feb } 96-\mathrm{Mar} \\ 96 \end{gathered}$ |
| Michel Mann | Enterpisises Litad | Calgary | Geophysicalsurveys <br>  | $\begin{gathered} \hline \text { Feb } 96 \text { - Mar } \\ 96 \\ \hline \end{gathered}$ |
| George Millen | fesw | Watson Lake | Duiliroadandsite - 6 rehabilitation | $\begin{gathered} \text { Apr } 96 \text { - May } \\ 96 \end{gathered}$ |
|  | Wabontech | Calgary | Drill core analyses | $\begin{gathered} \text { Apr } 96 \text { - May } \\ 96 \\ \hline \end{gathered}$ |
|  | XRay Assay <br> Laboratories | Toronto | $\begin{aligned} & \text { Priti core check. } \\ & \text { Manalyses } \end{aligned}$ | $\begin{gathered} \text { Apr } 96 \text { - May } \\ 96 \\ \hline \end{gathered}$ |
| Lorraine Godwin | Int Gamah | Toronto | RRepontyping and: | Dec 96 |

## GAMAH INTERNATIONAL LIMITED



| ITEM |  | AMOUNT |
| :---: | :---: | :---: |
| Accommodation |  | 1,357.04 |
| Linecutting | blanng flaggingrties | 5,488.18 |
| Consulting Fees | ffeld and office suppott | 15,880.61 |
| Coples | faxes and copies | 38.31 |
| Courier, Postage | Priority Post, Greyhound côurier | 58.40 |
| Drulling | mobilisation, labour, etc: | 29,769.26 |
| Rentals | equipiment, truck, gas, etc. | 2,499.95 |
| Field Equipment | field attire, tools, batteries, etc. | 423.51 |
| Maps | Y) $x_{x}$, | 50.00 |
| Food | meals and groceries | 801.81 |
| Miscellaneous | mileage, clean up | 539.34 |
| Telephone | long distance charges, Fonorola | 165.41 |
| Travel |  | 1,042.17 |
|  | TOTAL | \$58, 113.99 |

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.


<br>Jennings D.S. and Jilson G.A.(1983) Geology and sulphide deposits of Anvil Range, Yukon. CIM Spec Vol 37, 319-361 pp.<br>Poulsen K.H. (1996) Carlin-type Gold Deposits: Canadian Potential? Notes for presentation for a short course on New Mineral Deposit Models of the Cordillera Cordilleran Roundup 1996.

## Appendix A

## Assay Certificates

PROJECT: CAM

| Map Sample\# |  | Au <br> ppb | Ag <br> ppm | As <br> ppm | Cu <br> ppm | Pb <br> ppm | Sb <br> ppm | Zn <br> ppm |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 35 | 0.8 | 1.6 | 11 | 325 | 0.3 |  |
| 50400N 930W | 30 | 0.4 | 1.2 | 13 | $<2$ | $<0.2$ | 28 |  |
| 51200N 720W BRECCIA |  | 31 | 0.3 | 2.6 | 23 | 4 | 0.3 | 27 |
| 51200N 720W QTZ | 23 | 0.2 | 1.7 | 16 | 2 | 0.2 | 35 |  |
| 51200N 700W |  | 23 |  |  |  |  |  |  |

## APPENDIX B

GEOPHYSICAL RESULTS

## MINFOCUS INTERNATIONAL INC.




## MINFOCUS INTERNATIONAL INC.

CAM CLAIM BLOCK
VLF-EM TRAVERSE ALONG 50800N LINE

DIRECTION 035 CUTLER MAINE


## MINFOCUS INTERNATIONAL INC.

CAM CLAIM BLOCK
VLF-EM TRAVERSE ALONG 51200N LINE

## MINFOCUS INTERNATIONAL INC.

CAM CLAIM BLOCK
***** IN PHASE

- QUADRATURE
--- MAG - GAMMA

DIRECTION 035 HAWAII



## MINFOCUS INTERNATIONAL INC.

## CAM CLAIM BLOCK

VLF-EM TRAVERSE ALONG 52400N LINE


MINFOCUS INTERNATIONAL INC.
CAM CLAIM BLOCK
VLF-EM TRAVERSE ALONG 52800N LINE

DIRECTION 035 HAWAII


## MINFOCUS INTERNATIONAL INC.

CAM CLAIM BLOCK
***** IN PHASE

- MUADRATURE
VLF-EM TRAVERSE ALONG 53200N LINE



## MINFOCUS INTERNATIONAL INC.

| ***** IN PHASE |
| :---: |
| --- MUADRATURE |
| - GAMMA |

## MINFOCUS INTERNATIONAL INC.

CAM CLAIM BLOCK



# APPENDIX C <br> DIAMOND DRILL LOGS 

| HIMOUCUS IMTERMATIOAAL IME | CORAL PROJECT <br> CAB CLAIHS - Yukin territoin |
| :---: | :---: |
| $\begin{aligned} & \text { DIAMOMD ORTL HOLE } 96-03 \\ & 75 \text { DEERES TuHARDS } 074 \text { (TT } \end{aligned}$ | UTM OF COLLAR2 ${ }_{\text {M }}^{\text {M }}$ ( 6649893975 |
|  | Lacated by ges |


| gendobist | Adrian 6. Man |
| :---: | :---: |
| CONTRACTOR | D.J.0RILIII哭 |

HOLE COMHENCED 96-04-18
HOLE COHPLETED 96-04-21






MIWFOCUS IUTERMATIOMAL IMC

DIASOIT DRILL HOLE \%-04 60 DEGRESS TOMAROS 074 (True)

CORAL PROJECT
Cair clailis - yuxan jerritory
gellogist
COHTRACTOR
HOLE COPREMEED 96-04-22
HOLE CAHPLETED $95-04-26$




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<br>NTS 105A-6<br>$60^{\circ} 25^{\prime} 00^{\prime \prime} \mathrm{N}, 128^{\circ} 57^{\prime} 00^{\prime \prime} \mathrm{W}$

ON BEHALF OF
MINFOCUS INTERNATIONAL INCORPORATED


Lorraine Godwin
COnsulting Geophysicist
Gamah international Limited
Sutie 707, 1243 Islington Avenue
TORONTO, ONTARIO
M8X 1 Y9
Yukon Mining Incentives Designation \#96-008
DECEMBER 1996

## GAMAH INTERNATIONAL LIMITED

SUMMARY, ",
Dr. Adrian Mann conducted research on the JAY claums in 1995 and found that the geochemucal results from the 1982 Assessment Report by David Arscott for Kerr-Addson showed exciting results (Mann, 1996) He recommended a detarled summer mapping exercise, coupled with mult-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 soll samples at various locations along the grid lines ( 44 soil and 5 rock samples were collected in total) The work done consisted of $13,299 \mathrm{~m}$ (in 12 lines) of linecutang, reconnaissance geological mapping and geochemical samphng, 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 detauled exploratory work is performed over the clam group in order to determine the economuc value of this claim group.

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### 1.0 INTRODUCTION

A brief summer exploration program was carned out on the JAY clam group at the recommendation of Dr. Adrıan 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 carned out during the month of July 1996 and provides recommendations for further work

## 20 LOCATION AND LOGISTICS

The JAY claıms he approximately 45 km north of Watson Lake, Yukon Territory, off the Robert Campbell Highway

Dally jet service is available from Vancouver to Whitehorse with onward contunuation by turbo prop commuter planes to Watson Lake, or three to four tumes 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 $1 s$ connected to Britsh Columbia by the Alaska Highway (Route 1) Runnung 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 traler park, hospital, health care centre, and ambulance facilities Supplies, fresh water and consumables were obtained from Watson Lake. Washing water was obtained from the fastflowing Frances Ruver 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 tares, winter weight crankcase oul, gasoline ant-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 thus is hughly variable.

A field camp was established on the south side of the Frances River, at approximately kilometre 60 on the Robert Campbell Hıghway (as measured from the town of Watson Lake) Access from thus location to the JAY clams 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 72 km from the intersection of thus road and the Robert Campbell Highway, he posts \#65 and \#66 ( $\sim 20 \mathrm{~m}$ 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, he posts \#1 and \#2 ( $\sim 1 \mathrm{~km}$ north of the road).


Table 1
Summary of JAY Claums Information


Table 1
Summary of JAY Claims Information


### 3.0 PROPERTYOWNERSHIP"

The registered owner of the JAY clams is Minfocus International Inc. Table 1 gives detals of record numbers and anniversary dates for the clams. The registration dates of the JAY claums 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 contgguous claims numbered 1 to 106 (Figure 3) The claim group falls on both the 150,000 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 detaled sampling of soil and silt along the streams and rivers in the Watson Lake area In the vicinity of the JAY clams, a total of 84 soil and 71 silt samples were collected along the surrounding streams and rivers The samples were assayed for $\mathrm{Cu}, \mathrm{Ag}, \mathrm{Au}, \mathrm{Pb}, \mathrm{Zn}$ and Ba and the results were then plotted onto $1.50,000$ scale maps The hughest values for each of the six elements are as follows

|  | Element | " $x^{2}$ MAssay Result |
| :---: | :---: | :---: |
|  | Cu (soil) | , 105 ppmi |
| asers D204ty | Ag (soil) | $\cdots 3.6 \mathrm{ppm}$ |
| , | Au (soll) | , 720 ppb . |
| - ${ }^{2}$ | Pb (soll) | 724 41 prm |
| 120 ${ }^{2}$ | Zn (soil) | + 345 ppm |
| 4 | Ba (soll) | * 340ppm |
| 310 | Cu (silt) | ${ }^{4} 9116 \mathrm{ppm}$ |
| 0 | Ag (silt) | \%at 36 ppn |
|  | Au (silt) | ceimpp |
|  | Pb (salt) | H29 29 ppm |
|  | Zn (silt) | 66 ppm |
|  | Ba (silt) | 8 ppm |

These hugh 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 muneralization in this location. Based on Arscott's research and from reconnaussance visits to other claums in the area of the JAY group, Dr Mann also speculated that there might be a good possiblity of finding a copper-zınc impregnated thrust fault withun the Watson Lake area (Mann, 1996) On the basis of these conclusions, the summer exploration program of 1996 was carned out.



## 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 soll geochemical surveys, as well as reconnaussance VLF-EM and magnetometer surveys The north-south running flag and compass lines were established at approximately 500 m intervals, whule 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 carned out sumultaneously on all twelve blazed lines (for a total of $13,299 \mathrm{~m}$ )

|  | Interval |  |
| :---: | :---: | :---: |
| 2500 W | 5675 N to 8000 N |  |
| OW W | 100 N to 975 N | - 4 |
| (3500 W | 0 N to 1000 N | - $\times 1000 \mathrm{~m}$ |
| 3500 W | 5825 N to 8000 N | x $x^{60 y}$ |
| 3957 W | 0 N to 950 N | H |
| , 3400 W | 0 N to 910 N | 910 m |
| ${ }^{2} 4857$ W | 0 N to 875 N | 875 m |
| ON | 3525 W to 4850 W | 132 m |
| 10 | 3075 W to 3550 W | , 475 m mom |
| 900 N | 4425 W to 4857 W | . 432 m |
| 950 N | 3525 W to 3950 W | 425 m |
| 990 | 3050 W to 3475 W | 425 m |
| 边 $3 \times 8000 \mathrm{~N}$... | 2850 W to 3957 W |  |

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

Lorraine Godwin, geophysicist for Gamah International Lımited, 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, Ontano. Mr Johnothan Stockman and Mr Ruchard 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 soll and rock samples were performed by Bondar-Clegg \& Company Limited of North Vancouver, British Columbia.

Refer to Section 110 for a complete summary of all personnel and contractors employed durng this period

### 6.0 GEOLOGY

The $11,000,000$ scale Macmillan Ruver (1398A) geological map published in 1980 by the GSC (Gabnelse, Tempelman-Kluut, Blusson, Campbell) shows that the contact between Mississippian broclastic and massive limestones (with interbedded polymict conglomerates, argillite, slate, chert bands, tuffs and other volcarucs, sandy and cherty limestones and greywackes, all of Gabrelse's unit 9b), and the more easterly unit 7 Devonan or Mississippian chert pebble conglomerates, carbonaceous slate, quartzte, greywacke, siltstone and sandstone, is faulted

(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 claıms. The 1965/6 Gabrelse 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 soll and 5 rock samples were collected over the entire 12 grid lines (see Appendix A for sample locatoons). 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 certficates)

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 arsenc contour exhubits anomalous areas around $3500 \mathrm{~W}, 7500 \mathrm{~N}$ and $2500 \mathrm{~W}, 6750 \mathrm{~N}$ Copper shows a high in the $2500 \mathrm{~W}, 7500 \mathrm{~N}$ area The gold contour has anomalous areas around $3500 \mathrm{~W}, 5750 \mathrm{~N}$ and 2500 $\mathrm{W}, 7400 \mathrm{~N}$, whule zinc demonstrates a high at around $3200 \mathrm{~W}, 8000 \mathrm{~N}$.

The southern portion of JAY shows anomalous areas for copper around $3500 \mathrm{~W}, 800 \mathrm{~N}$, for gold at $3550 \mathrm{~W}, 0 \mathrm{~N}$, and for zinc at $3950 \mathrm{~W}, 350 \mathrm{~N}$ and $4900 \mathrm{~W}, 900 \mathrm{~N}$

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 ${ }^{1}$ This instrument utlizes the phenomenon of nuclear magnetic resonance to measure the flux density of the total magnetic field

Readings were taken (in triphcate) 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 clams

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

### 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 Geonucs EM16 Very Low Frequency ${ }^{2}$ (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 thus survey the signal from an antenna in Seattle, Washington (NLK - 248 kHz ) was used. This emitted a farrly strong signal which was easy to hear.

The electromagnetic profiles were plotted using the Microsoft Excel software package

### 7.4 Electromagnetic Survey-Resurts

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 claums in order to determine the existence, location and extent of the anomalies identrified in Arscott's survey.

A detalled grid should be established, with one baseline running north-south, and the grid lines runnung 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 thuck 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 conls. A magnetic field is set up when a current is passed through these colls for a short duration of tame. This field algns 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, exponentally decaying, AC signal in the sensor coils whose frequency is proportional to the flux of the ambient magnetic field ( 234874 gammas $/ \mathrm{Hz}$ ). 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.

2 EM16 VLF
This receiver measures the VLF radiation sıgnals, in the range of $15-25 \mathrm{kHz}$, 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 $90^{\circ}$ ahead of the in phase component) of the polarization ellipsord 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 coll whose axis is normally vertical is first held in a horizontal position and rotated in azimuth to find a minumum. This finds the direction to the transmitting station The receiver is then brought up $90^{\circ}$ vertically and is now in the plane containung the polanzation ellipse The instrument is then tilted untla a minumum 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 mumum and gives the quadrature readıng
10.0 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)

I have practiced in my profession since 1995
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

I, Gerald Harper, President of Gamah International Lumited, do hereby certify that-
1 I am a graduate of the Unversity 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, Minıng 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 contractung 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 examunations


## GAMAH INTERNATIONAL LIMITED

11. P PERSONNEL AND CONTRACTORS EMPLOYED


### 12.0 STATEMENT OXCOSTS

| ITEM | DETAILS | Amount |
| :---: | :---: | :---: |
| Accommodation | Gateway Motel fiela camp | \$632.40 |
| Analyses | Bondar-Clegg and Company | \$454.73 |
| Commurucations | phone calls/ faxes, etc; | \$179 13 |
| Courier Postage | shipping of information | \$18182 |
| Food | camp supplies | \$61568 |
| Personnel - Field | linecutting, geophysical, geochemical and geological surveys, camp construction and miscellaneous supplies | \$6,05530 |
| Personnel - Office | time for office support | \$1,19700 |
| Rentals | vehicles, equipment and hotel | \$1,475 35 |
| Travel | air and ground transportation to and from Watson Lake and claims | \$37600 |
|  | TOTAL | \$11,167.41 |

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 Detaled records for back-up to these amounts are avallable at the office of Minfocus International Incorporated, Surte 707, 1243 Islington Avenue, Toronto, Ontario, M8X 1 Y9.


## GAMAH INTERNATIONAL LIMITED

13.0 REFERENCES

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## APPENDIX A

## GEOCHEMISTRY




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


GAMAH INTERNATIONAL LIMITED COPPER GEOCHEMICAL CONTOURS OF JAY CLAIMS (NORTH END)

Kriged Values
Watson Lake Area, Yukon Territory


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




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


GAMAH INTERNATIONAL LIMITED ZINC GEOCHEMICAL CONTOURS OF JAY CLAIM (SOUTH END)

Kriged Values
Watson Lake Area, Yukon Territory

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


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


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


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

| Gra Easting | Gnid | \%u (ppp) | Cu (pan) | 2h (paph) | ASprouk | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| -2500 | 7350 | 24 | 78 | 46 | 13 | soll |
| -2500 | 6950 | 9 | 16 | 27 | 27 | soil |
| -2500 | 6725 | 11 | 26 | 49 | 67 | soil |
| -2500 | 6625 | 18 | 8 | 36 | 58 | soil |
| -2500 | 6500 | 4 | 8 | 31 | 47 | soll |
| -2500 | 6200 | 4 | 19 | 47 | 51 | soil |
| -2500 | 5750 | 12 | 7 | 40 | 63 | soll |
| -3050 | 750 | 4 | 5 | 36 |  | soil |
| -3125 | 990 | 4 | 8 | 33 |  | soil |
| -3150 | 990 | 4 | 11 | 37 |  | soil |
| -3200 | 100 | 4 | 6 | 38 |  | soll |
| -3225 | 100 | 4 | 14 | 85 |  | soil |
| -3250 | 100 | 24 | 9 | 43 |  | soll |
| -3275 | 100 | 23 | 12 | 76 |  | soll |
| -3375 | 990 | 15 | 15 | 37 |  | soil |
| -3400 | 100 | 4 | 8 | 44 |  | soil |
| -3425 | 100 | 6 | 8 | 92 |  | soil |
| -3500 | 25 | 36 | 26 | 87 |  | soll |
| -3500 | 860 | 15 | 71 | 69 |  | soil |
| -3500 | 900 | 4 | 18 | 55 |  | soil |
| -3500 | 950 | 21 | 9 | 34 |  | soil |
| -3500 | 990 | 4 | 6 | 22 |  | soll |
| -3500 | 5925 | 24 | 16 | 14 |  | söl |
| -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 |  | soll |
| -3650 | 950 | 24 | 58 | 79 |  | soil |
| -3725 | 950 | 12 | 49 | 88 |  | soll |
| -3725 | 8000 | 4 | 3 | 18 |  | soil |
| -3750 | 950 | 23 | 39 | 48 |  | soil |
| -3875 | 950 | 4 | 38 | 68 |  | soll |
| -3950 | 950 | 11 | 30 | 67 |  | Soil |
| -3957 | 150 | 7 | 25 | 7 |  | soil |
| -3957 | 300 | 4 | 41 | 108 |  | soll |
| -3957 | 775 | 4 | 17 | 51 |  | soll |
| -4175 | 0 | 4 | 12 | 44 |  | soil |
| -4250 | 0 | 29 | 14 | 34 |  | soll |
| -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 | 34 | rock |
| -3375 | 8000 | 4 | 17 | 77 | 3 | rock |
| -3500 | 6100 | 9 | 19 | 64 | 01 | rock |
| -3500 | 7550 | 4 | 27 | 50 | 9 | rock |
| -3500 | 8000 | 4 | 18 | 63 | 23 | röck |

## Bondar Clegg Inchcape Testing Services

REPORT: V96-01067.0 ( COMPLETE )

CLIENT: MINFOCUS INTERNATIONAL INC.
PROJECT: 95051 JAY

REFERENCE:

SUBMITTED BY: UNKNOWN
DATE PRINTED: 30-JUL-96

| ORDER |  | ELEMENT |
| :---: | :--- | :--- |
| 1 | Au30 | Gold |
| 2 | Cu | Copper |
| 3 | Zn | Zinc |
| 4 | As | Arsenic |


| NUMBER OF | LOWER |  |  |
| :---: | :---: | :---: | :---: |
| ANALYSES | detection limit | EXTRACTION | METHOD |
| 7 | 5 PPB | Fire Assay of 30g | 30g Fire Assay - AA |
| 7 | 1 PPM | HCL: HNO3 (3:1) | ATOMIC ABSORPTION |
| 7 | 1 PPM | HCL: HNO3 (3:1) | ATOMIC ABSORPTION |
| 7 | 1.0 PPM | HCL:HNO3 (3:1) | HYDR. GEN/AA |


| SAMPLE TYPES | NUMBER |
| :--- | ---: |
| $\mathbf{S}$ SOIL | 7 |

## Bondar Clegg Inchcape Testing Services





Bondar Clegg

CLIENT: MINFOCUS INTERNATIONAL INC.
PROJECT: 95051

SUBMITTED BY: UNKNOLN DATE PRINTED: 13-AUG-96

| ORDER |  | ELEMENT |
| :---: | :--- | :--- | :--- |
| 1 | Au30 | Gold |
| 2 | Cu | Copper |
| 3 | Zn | Zinc |
| 4 | As | Arsenie |


| SAMPLE TYPES | NUMBER |
| :--- | ---: |
| S SOIL | 73 |
| $R$ ROCK | 5 |

NUMBER OF LOWER
ANALYSES DETECTION LIMIT EXTRACTION METHOD

| 78 | 5 PPB | Fire Assay of $\mathbf{3 0 g}$ | 30g Fire Assay - AA |
| ---: | ---: | :--- | :--- |
| 78 | 1 PPM | HCL:HNO3 (3:1) | ATOMIC ABSORPTION |
|  |  |  |  |
| 78 | 1 PPM | HCL.HNOS (3:1) | ATOMIC ABSORPTION |
| 5 | 1.0 PPM | HCL:HNOS (3:1) | HYDR. GEN/AA |

## SIZE FRACTIONS NUMBER

1 -80
73
5

SAMPLE PREPARATIONS NUMBER

DRY, SIEVE -80 73
CRUSH/SPLIT \& PULV5

LIENT: MINFOCUS INTERNATIONAL INC. EPRORT: V96-01233.0 ( COMPLETE )

PROJECT: 95051
DATE PRINTED: 13-AUG-96 PAGE 1
AMPLE
$s 1600 \mathrm{~W} 5000 \mathrm{~N}$
1625 W 5000 N
1643 W 6075 N
S 1643 W 6150 N
1675 W 6000 N
$s 1850 \mathrm{~W} 5000 \mathrm{~N}$
1900 W 6000 N
11000 W 6000 N
$s 11100 \mathrm{~W} 6000 \mathrm{~N}$
-11100 W 6457 N
-11150 W 7200 N
s1 1150W 7300N
1 1150W 7625N
. 1200 H 5000 N
s1 1200W 6000N

1325 W 6000 N
si 1350W 7000N
S1 1500W 6000N
1 1725W 7457N
1 1800W 7000N
51 1825w 7459N
\$1 2000W 7457N
S1 2050W 7000N
-1 2075W 7000 N
S1 2200W 7000N
512250 W 7000 N
512350 W 7000 N
512475 W 6457 N
s 12475 W 7459 N
S 12550 W 7000 N
S1 2550w 7457N
S1 2600W 6457N
S1 2625w 7000 N
51 2650w 6000 N
si 2775W 7457N
s1 2925w 7457N
s1 3050W 750N
S1 3125W 990N
s1 3150W 990N s1 3200W 100N




IENT: MINFOCUS INTERNATIONAL INC. EEPORT: V96-01233.0 ( COMPLETE )


| ftandard ELEMENT | AU30 | Cu | Zn | As | Standard Element | Au30 | Cu | Zn | As |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TAME UNITS | PPB | PPM | PPM | PPM | NAME UNITS | PPB | PPM | PPM | PPM |
| analytical blank | <5 | $<1$ | 2 | $<1.0$ | BCC GEOCHEM STD 5 | - | 97 | 81 | 9.0 |
| NaLytical blank | <5 | <1 | <1 | <1.0 | Number of Analyses | - | 1 | 1 | 1 |
| nnalytical blank | $<5$ | <1 | $<1$ | $<1.0$ | Mean Value | - | 97.3 | 80.9 | 9.00 |
| ANALYTICAL 8LANK | $<5$ | - | - | - | Standard Deviation | - | - | - | - |
| Iumber 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 |  |  |  |  |  |
| Bannet Standard | 1522 | - | - | - |  |  |  |  |  |
| Number of Analyses | 1 | - | - | - |  |  |  |  |  |
| Tean Value | 1522.3 | - | - | - |  |  |  |  |  |
| Ptandard Deviation | - | - | - | - |  |  |  |  |  |
| Accepted Value | 1590 | - | - | - |  |  |  |  |  |
| BCC GEOCHEM STD 4 | - | 313 | 252 | 30.1 |  |  |  |  |  |
| Number of Analyses | - | 1 | 9 | 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 | - | - | - |  |  |  |  |  |
| Stancard Deviation | - | - | - | - |  |  |  |  |  |
| Accepted Value | 410 | - | - | - |  |  |  |  |  |
| Gannet Standard | 2552 | - | - | - |  |  |  |  |  |
| Jumber of Analyses | 1 | - | - | - |  |  |  |  |  |
| Hean 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 | - | - | - |  |  |  |  |  |



Appendix B<br>Magnetic Contours of JAy Claims

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


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



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

+ Stations


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

## Appendix C

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

lectromagnetic Profile of Line 4400 W


Electromagnetic Profile of Line 4857 W


Electromagnetic Profile of Line 8000 N


## Appendix D

Geophysical Notes








| Wariowesting | GridMOrthing |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 | soill JV-3 |  |  |  |  |
| 4450 |  | 58229 | -12 | 2 | open pine \& willow |  |  |  |  |
| 4475 |  | 58232 | -8 | 5 | " ${ }^{\text {a }}$ |  |  |  |  |
| 4500 |  | 58213 | -8 | 4 | " |  |  |  |  |
| 4525 |  | 58210 | -5 | 5 | ${ }^{\prime \prime}$ |  |  |  |  |
| 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 | ", soll JV-5 |  |  |  |  |
| 4700 |  | 58204 | 9 | 8 | " |  |  |  |  |
| 4725 |  | 58194 | -13 | 3 | " |  |  |  |  |
| 4750 |  | 58198 | -10 | 2 | " |  |  |  |  |
| 4775 |  | 58173 | -8 | 3 | ", soll JV-6 |  |  |  |  |
| 4800 |  | 58207 | -7 | 0 |  |  |  |  |  |
| 4825 |  | 58210 | -6 | 0 |  |  |  |  |  |
| 4850 |  | 58201 | -6 | -4 | " |  |  | , |  |
| 4857 |  | 58213 | -6 | -4 | ',GPS +1-54m, 602631 | 1N 12901 98W |  |  |  |
| 3957 | 950 |  |  |  | see earlier traverse not | tes |  |  |  |
| 3950 |  | 58244 | 3 | -65 | c2,dense conifers,moss | sy, soll MM-1 |  |  |  |
| 3925 |  | 58246 | 10 | 25 | ${ }^{\prime \prime}$ |  |  |  |  |
| 3900 |  | 58239 | 0 | -45 | " |  |  |  |  |
| 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 | 25 | c3,", soll MM-3 |  |  |  |  |
| 3725 |  | 58282 | -2 | -35 | c2, soil MM-4 |  |  |  |  |
| 3700 |  | 58261 | -2 | 1 | " |  |  |  |  |
| 3675 |  | 58259 | 0 | -7 | ${ }^{\prime}$ |  |  |  |  |
| 3650 |  | 58243 | 0 | 0 | ", 8011 MM-5 |  |  |  |  |
| 3625 |  | 58257 | 3 | -45 | " |  |  |  |  |
| 3600 |  | 58245 | 0 | -3 | ", soil MM-6 |  |  |  |  |
| 3575 |  | 58250 | -5 | 25 | " ... |  |  |  |  |
| 3550 |  | 58287 | -7 | -1 | i, soil MM-7 |  |  |  |  |
| 3525 |  | 58294 | -3 | 5 | -1" |  |  |  |  |
| 3475 | 990 | 58245 | -11 | -25 | open conifer |  |  |  |  |
| 3450 |  | 58261 | -17 | -8 | "- |  |  |  |  |
| 3425 |  | 58254 | -15 | -25 | ",uphill slightly |  |  |  |  |
| 3400 |  | 58274 | -16 | -05 | ii |  | . |  |  |
| 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 | -10 | -15 | " |  |  |  |  |
| 3175 |  | 58239 | -8 | -6 | i' |  |  |  |  |



A Summary of the Exploration Work Done on<br>The BJ Claim Groups<br>DURING THE PERIOD 10-23 JULY 1996<br>Watson Lake Area, Yukon Mining District<br>NTS 105A-6/7<br>$60^{\circ} 15^{\prime} 00^{\prime \prime} \mathrm{N}, 128^{\circ} 51^{\prime} 00^{\prime \prime} \mathrm{W}$<br>ON BEHALF OF<br>MINFOCUS INTERNATIONAL. INCORPORATED



LORRAINE GODWIN CONSULTING GEOPHYSICIST
Gamah International Limited
Sutte 707, 1243 Islington Avenue
Toronto, Ontario M8X 1 Y9

Yukon Mining Incentives Designation \#96-008
DECEMBER 1996

In October of 1995 a short reconnaissance survey was made on the BJ claim blocks in the Watson Lake area of Yukon Territory by Dr. Adrian Mann. This was followed up by ground magnetic and electromagnetic surveys in July 1996. Four days were spent with Gamah International Limited crews flagging and blazing grid lines and conducting the aforementioned surveys, as well as performing reconnaissance geological mapping and collecting geochemical soil samples at various locations along the grid lines ( 37 samples were collected in total). The work done consisted of $11,778 \mathrm{~m}$ (in 10 lines) of linecutting, reconnaissance geological mapping and geochemical sampling, as well as geophysical surveying.

No economic mineralization was found, however, several anomalous areas were discovered. Due to the sparseness of the grid coverage, it is recommended that further exploratory work is performed over the claim group in order to determine the extent of these anomalies.

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A brief summer exploration program was carried out on the BJ claim group at the recommendation of Dr. Adrian Mann, who conducted a short reconnaissance visit on October 3rd, 1995 (Mann, 1996) on said claims. Dr. Mann's recommendations were to have a field crew conduct VLF-EM and total field magnetometer surveys to locate, on the ground, geophysical anomalies revealed by much earlier Questor airborne surveys (1981). Detailed geological mapping was not recommended as he found a "paucity of outcrop" (Mann, 1996). 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 by Gamah during the month of July 1996 and provides recommendations for further work.

The BJ claims are located approximately 30 km north of the town of Watson Lake which is in the Yukon Territory.

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 provides direct access to the field camp (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. The town also hosts the Mining Recorders Office for the Watson Lake Mining Division which encompasses the BJ claims. Claim maps and other information are accessible here.

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 condtions 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 BJ claims was approximately 30 km south along the Robert Campbell Highway, at kilometre 30 . The western edge of the BJ claims falls across the highway, making them easily accessible.


Figure 1
General Location Map Yukon Highway Map, 1986

BJ Claims



Table 1
Summary of BJ Claums Information

| Grant Number: | Claim Name | Registered Owner | Amiversary Date | Location max | NTS (Claim Shectial |
| :---: | :---: | :---: | :---: | :---: | :---: |
| YB69993 | BJ 69 | Minfocus international linc. | 96/10/10 | Tom Creek Aíea | 105A-6 |
| YB69994 | BJ 70 | Minfocus international inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| YB69995 | BJ 71 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| YB69996 | BJ 72 | Minfocus international Inc | 96/10/10 | Tom Creek Area | 105A-6 |
| YB69997 | BJ 73 | Minfocus international Inc. | 96/10/10 | Tom Creak Area | 105A-6 |
| YB69998 | BJ 74 | Minfocus international Inc | 96/10/10 | Tom Creek Area | 105A-6 |
| Y869999 | BJ 75 | Minfocus internatonal inc | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70000 | BJ 76 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70001 | BJ 77 | Minfocus Internatonal Inc. | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70002 | BJ 78 | Minfocus International Inc | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70003 | BJ 79 | Minfocus International Inc | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70004 | BJ 80 | Minfocus International Inc | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70005 | BJ 81 | Minfocus international tinc | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70006 | BJ 82 | Minfocus international inc | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70007 | BJ 83 | Minfocus international Inc | 96/10/10 | Tom Creak Area | 105A-7 |
| YB70008 | BJ 84 | Minfocus International Inc | 96/10/10 | Tom Creak Area | 105A-7 |
| YB70009 | BJ 85 | Minfocus International Inc. | 96/10/10 | Tom Creak Area | 105A-6 |
| YB70010 | BJ 86 | Minfocus international Inc | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70011 | BJ 87 | Minfocus International inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70012 | BJ 88 | Minfocus International inc. | 96/10/10 | Tom Creak Area | 105A-6 |
| YB70013 | BJ 89 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| Y870014 | BJ 90 | Minfocus International Inc | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70015 | BJ 91 | Minfocus International Inc. | 96/10/10 | Tom Creek Araa | 105A-6 |
| YB70016 | BJ 92 | Minfocus International inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70017 | BJ 93 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70018 | BJ 94 | Minfocus International Inc. | 96/10/10 | Tom Creok Area | 105A-6 |
| YB70019 | BJ 95 | Minfocus International Inc. | 96/10/10 | Tom Creak Area | 105A-6 |
| YB70020 | BJ 96 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70021 | BJ 97 | Minfocus International Inc | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70022 | BJ 98 | Minfocus International Inc | 96/10/10 | Tom Creak Area | 105A-7 |
| Y870023 | BJ 99 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70024 | BJ 100 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70025 | BJ 101 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70026 | BJ 102 | Minfocus International Inc. | 96/10/10 | Tom Creak Area | 105A-7 |
| YB70027 | BJ 103 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70028 | BJ 104 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70029 | BJ 105 | Minfocus International inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70030 | BJ 106 | Minfocus International Inc | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70031 | BJ 107 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70032 | BJ 108 | Minfocus International inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| Y870033 | BJ 109 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70034 | BJ 110 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70035 | BJ 1111 | Minfocus International Inc. | 96/10/10 | Tom Craek Area | 105A-6 |
| YB70036 | BJ 112 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70037 | BJ 113 | Minfocus International Inc | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70038 | BJ 114 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70039 | B. T 115 | Minfocus International Inc. | 96/40/10 | Tom Creek Area | 105A-7 |
| YB70040 | BJ 116 | Minfocus International Inc. | 96/10/10 | Tom Creok Area | 105A-7 |
| YB70041 | B. 117 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70042 | BJ 118 | Minfocus Internatonal Inc. | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70043 | BJ 119 | Minfocus Internatonal Inc. | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70044 | BJ 120 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70045 | BJ 121 | Minfocus International inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70046 | BJ 122 | Minfocus International lic. | 96/10/10 | Tom Creak Area | 105A-6 |
| YB70047 | BJ 123 | Minfocus Internatonal Inc. | 96/10/10 | Tom Creek Area | 105A-6 |
| YB70048 | BJ 124 | Minfocus International Inc. | 96/10/10 | Tom Creak Area | 105A-6 |
| YB70049 | BJ 125 | Minfocus Internatonal Inc. | 96/10/10 | Tom Creek Area | 105A-7 |
| Y870050 | BJ 126 | Minfocus international Inc. | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70051 | BJ 127 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-7 |
| YB70052 | BJ 128 | Minfocus International Inc. | 96/10/10 | Tom Creek Area | 105A-7 |

3.0. PROPSRIY OWNGRSRIP AND LOCAMION

The registered owner of the BJ claims is Minfocus International Inc.. Table 1 gives details of record numbers and anniversary dates for the claims. The registration dates of the BJ claims are October 1995. With the exception of the reconnaissance visit paid by Dr. Mann to these claims, all work described in this report was undertaken after July 9th, 1996.

The field exploration program was conducted on the BJ claim groups on behalf of Minfocus International Incorporated by the consulting group of Gamah International Limited. The BJ claim group consists of 128 contiguous claims numbered 1 to 128 (Figure 4). The claim group falls on both the $1: 50,000$ topographic and claim map sheets of NTS 105A-6 and 105A-7.

### 4.0 PREVIOUS WORK

During 1980-1983 a Questor airborne magnetic and electromagnetic survey was performed in the Watson Lake area. Based on these results, Minfocus International Inc. then staked the BJ claims over anomalous areas. Geologist Adrian Mann visited the BJ claims on October 3rd, 1995. Three grab samples were collected, including one of unmineralized country rock. The results of these three are as follows (Mann, 1996):


Dr. Mann found little outcrop on the block and recommended against detailed geological mapping, however, he did recommend geophysical traversing, using ground based magnetic and VLF-EM surveying techniques, coupled with geochemical sampling. These conclusions led to the exploration program of 1996.

## 5. SLMMARF OF WORK COMPLEMEDIN 1996 PROGRAM

The field work was carried out on the days of July 10, 21, 22 and 23, 1996. The work consisted of linecutting, reconnaissance geological mapping and soil geochemical surveys, as well as reconnaissance VLF-EM and total field magnetic surveys. The east-west running flag and compass lines were established at approximately 500 m intervals, while tie-in north-south lines were established at the ends of the eastwest traverses (see Figures 3 and 4 for a picture of the grid coverage). Individual stations were fixed at 25 metre intervals. The surveys were carried out simultaneously on all ten blazed lines (for a total of 11,778 metres).

The following table is a summary of all lines which were cut, blazed and flagged.


| BJ Claims Plan Extracted Fram |
| :--- |
| Claim Maps 105A-6 \& 7 |
| 1:50,000 Fígure 3 3 |
| GAMAH INTERNATIONAL LIMITED |



BJ Claims Plan Extracted From Claim Maps 105A-6 \& 7


A total of 37 soil samples were collected over the entire grid (see Appendix A for soil sample locations), all of which were analyzed for copper, gold and zinc. The program of work was intended to be an initial reconnaissance to verify the existence of the geophysical anomalies and to determine if there is supporting geochemical or geological anomalous conditions to justify more extensive grid coverage.

Lorraine Godwin, geophysicist for Gamah International Limited, was overall project manager and head of the geophysical and geochemical surveys. Assisting in both the geophysical and geochemical surveys, as well as mapping whatever outcrop occurred, 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. Johnothan Stockman and Mr. Richard Harder, both of Watson Lake, Yukon, assisted in the linecutting, blazing and flagging of the BJ claims. Mr. George Millen, also of Watson Lake, Yukon, provided expediting and support services.

Geochemical analyses of 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.

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 Campbell Thrust is sited along Wolverine Lake. It was thought by Dr. Mann that "if this thrust is the locus of the mineralization, then it is logical to seek like mineralization elsewhere in like terrain. If this is true, then the logical places to stake are along the periphery of the Anvil Allochtons, following the plane of the Campbell Thrust" (Mann, 1996). The east limb of this thrust follows east of the Robert Campbell Highway to Watson Lake and encompasses the BJ claim group (Figure 5).

The outcrop discovered by Dr. Mann during his reconnaissance visit was "confined to Gabrielse's unit 9b Mississippian bioclastic and massive limestones with interbedded polymict conglomerates, argillite, slate, chert bands, tuffs and other volcanics, sandy and cherty limestones and greywackes. Arscott describes cherts, greywackes and phyllites, with minor siltstone and argillite occurring in this and other blocks in the area" (Mann, 1996).

Dr. Mann speculated that there might be a good possibility of finding a copper-zinc impregnated thrust fault within the Watson Lake area.


Waxd

### 7.1 Geochemical Survey - Methodology

A total of 37 soil samples were collected over the entire 10 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 analysed for copper, gold and zinc (see Appendix A for assay certıficates).

Applying a kriging method, the assay results were then contoured using the Surfer software package "Surferl6".

### 7.2 Geochemical Survey - Results

As seen from the contour plots in Appendix A, the copper contour exhibits anomalous areas around 550 $\mathrm{W}, 6200 \mathrm{~N}$ and $2100 \mathrm{~W}, 7000 \mathrm{~N}$. The gold contour illustrates anomalies in roughly the same areas: 550 $\mathrm{W}, 6000 \mathrm{~N}$ and $2600 \mathrm{~W}, 7000$, while the zinc contour shows a high everywhere except around 550 W , 5300 N and $2100 \mathrm{~W}, 7457 \mathrm{~N}$.

### 7.3 Magnetometer Survey - Methodology

This survey employed a Scintrex MP-2 proton precession magnetometer ${ }^{1}$. This instrument utulizes 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 BJ claims.

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

### 7.4 Magnetometer Survey - Results

The contour plot (found in Appendix B) demonstrates a magnetic low at the end of line 5457 N , which is more likely due to one anomalous reading near the end of this line and thus cannot be taken too seriously as an anomaly without further surveying. Magnetic highs occur around the 3000 W points of lines 6000 N and 6457 N . Again, because they occur near the ends of the survey lines, it is difficult to ascertain the validity of these anomalies without additional measurements. Also, the magnetic results do not correspond with the geochemical anomalies for copper, gold and zinc, as can be seen by comparison of the magnetic contour with the geochemical contours. No substantial conclusions can be drawn as to the magnetic makeup of the BJ claims without a further, more extensive survey, although it would appear that the northern portions of BJ are much less magnetically interesting than the more southerly portions. It is therefore recommended that future survey crews focus more on the southern claims of the BJ group.

### 7.5 Electromagnetic Survey - Methodology

## A Geonics EM16 Very Low Frequency ${ }^{2}$ (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 electromagnetuc profiles were plotted using the Microsoft Excel software package.

### 7.6 Electromagnetic Survey - Results

The electromagnetic profiles can be found in Appendix $C$
Line 5000 N shows crossovers at -650 W and $\sim 1250 \mathrm{~W}$ These are indicative of possible conductors and further work should be done both areas. Only the magnetic contour has any evidence to support this, with a magnetuc low at $\sim 1600 \mathrm{~W}, \sim 5475 \mathrm{~N}$.

Line 5457 N has a small crossover at $\sim 975 \mathrm{~W}$ and $\sim 1100 \mathrm{~W}$, with a larger crossover point at $\sim 1350 \mathrm{~W}$, also indicatung a possible conductor and supporting further work in this area. However, nether the magnetic contour nor the geochemical contours show positive evidence for this.

Line 6000 N has seven crossover points, the strongest of which occurs between $\sim 1600 \mathrm{~W}$ and $\sim 2275 \mathrm{~W}$. This looks as though there might be a large conductor in this area. Again, however, there is no encouraging results from the contour plots.

Line 6457 N has 12 crossovers, the strongest of which falls between $\sim 1700 \mathrm{~W}$ and $\sim 2150 \mathrm{~W}$.
Line 7000 N has eight crossovers, with notable peaks between $\sim 2100 \mathrm{~W}$ and $\sim 2300 \mathrm{~W}$. The geochemical contours for copper and gold have anomalous areas at $\sim 7000 \mathrm{~N}, \sim 2000 \mathrm{~W}$ and $\sim 7000 \mathrm{~N}, \sim 2550 \mathrm{~W}$, respectively

Line 7457 N has only small crossovers at $\sim 2350 \mathrm{~W}, \sim 2450 \mathrm{~W}, \sim 2700 \mathrm{~W}$ and $\sim 2725 \mathrm{~W}$. The zinc contour demonstrates a low around $7457 \mathrm{~N}, 2100 \mathrm{~W}$, while the gold contour shows a high at approximately 7457 $\mathrm{N}, 2600 \mathrm{~W}$.

On Line 550 W we see a strong crossover at $\sim 5260 \mathrm{~N}$, indicating a strong conductor in this area. The magnetic contour corresponds to this with a possible magnetic high at $500 \mathrm{~W}, \sim 5475 \mathrm{~N}$. The geochemical contour for zinc shows a low in this area.

Line 643 W demonstrates smaller crossovers at $6100 \mathrm{~N}, 6150 \mathrm{~N}, \sim 6280 \mathrm{~N}$ and $\sim 6360 \mathrm{~N}$, pointing to weaker conductors in this area. The magnetic contour plot does not have any corresponding anomalies in this area, however, the geochemical plots for both copper and gold show higher values in this region.

Line 1150 W has no crossover points. Both the magnetic contour and the geochemical contours also show no anomalies although the copper contour has a noticeable high in the vicinity of this line.

Line 2873 W has only two small crossovers at -6010 N and $\sim 6035 \mathrm{~N}$. The magnetic contour also has high and low anomalies in this area. The geochemical contours do not show any corroborating anomalies in this area, however, this does not conclude anything as only one soil sample was taken in this vicinity. Further work is recommended around this area, including both geophysical and geochemical surveying.

The results of the geophysical and geochemical surveys make it evident that there is potential for the BJ claim group. However, due to the time constraints of this exploration program and thus the sparseness of the grid coverage, it is suggested that a more detailed grid is established over the entire property to give a greater understanding of both the geology and geophysics of the BJ claims, but with more of an emphasis on the southern end of the claim group as there are several specific areas in which to focus further work in this region.

More extensive soil sampling, and rock sampling where possible, is recommended in the areas of the magnetic highs and lows, as well as the highs of the geochemical contours, namely: along 500 W between 5000 N and $6000 \mathrm{~N}, 550 \mathrm{~W}$ between 6000 N and $6500 \mathrm{~N}, 6000 \mathrm{~N}$ between 500 W and 2000 W , and along 7000 N between 2200 W and 3000 W .

## 

## 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. Thus 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 $/ \mathrm{Hz}$ ). 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.

## 2 EM16 VLF

This receiver measures the VLF radiation signals, in the range of $15-25 \mathrm{kHz}$, from grounded vertical antennae which are generally employed for manne navigation. A worldwide network of high-power VLF stations exast 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 (tult angle) and quadrature component (component $90^{\circ}$ 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 ferrte cores. The conl whose axas 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 $90^{\circ}$ 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.

## 

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.

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 examunations in July and September 1996 and review of data compiled by me durng those field examinations.




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 1 Y9.

Arscott, D. (1982), Kent Project 1982 Program Assessment Report.
Private Report for Kerr Addison Mines Ltd.
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.

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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.

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## Appendix A

Geochemical Contours, Assay Results and Certificates


GAMAH INTERNATIONAL LIMITED
COPPER GEOCHEMICAL CONTOURS OF BJ CLAIMS Kriged Vaules
Watson Lake Area, Yukon Territory

+ Soil Sample Locations


GAMAH INTERNATIONAL LIMITED COPPER GEOCHEMICAL CONTOURS OF BJ CLAIMS Kriged Vaules
Watson Lake Area, Yukon Territory



| Grid Westing | Grid Northing | Au (ppb) | Cu(ppm) | 2n(ppm) |
| :---: | :---: | :---: | :---: | :---: |
| 550 | 5275 | 6 | 13 | 31 |
| 600 | 5000 | 4 | 17 | 80 |
| 625 | 5000 | 4 | 11 | 57 |
| 643 | 6075 | 6 | 27 | 93 |
| 643 | 6150 | 4 | 30 | 98 |
| 675 | 6000 | 16 | 9 | 49 |
| 850 | 5000 | 4 | 8 | 50 |
| 900 | 6000 | 4 | 4 | 33 |
| 1000 | 6000 | 4 | 6 | 41 |
| 1100 | 6000 | 4 | 10 | 77 |
| 1100 | 6457 | 4 | 8 | 56 |
| 1150 | 7200 | 4 | 16 | 73 |
| 1150 | 7300 | 4 | 21 | 69 |
| 1150 | 7625 | 4 | 10 | 48 |
| 1200 | 5000 | 6 | 10 | 45 |
| 1200 | 6000 | 4 | 8 | 60 |
| 1325 | 6000 | 4 | 10 | 71 |
| 1350 | 7000 | 6 | 6 | 33 |
| 1500 | 6000 | 11 | 19 | 78 |
| 1725 | 7457 | 6 | 21 | 49 |
| 1800 | 7000 | 9 | 42 | 95 |
| 1825 | 7459 | 4 | 6 | 42 |
| 2000 | 7457 | 12 | 18 | 28 |
| 2050 | 7000 | 4 | 60 | 73 |
| 2075 | 7000 | 12 | 21 | 84 |
| 2200 | 7000 | 4 | 11 | 53 |
| 2250 | 7000 | 12 | 5 | 30 |
| 2350 | 7000 | 9 | 4 | 28 |
| 2475 | 6457 | 4 | 9 | 49 |
| 2475 | 7459 | 6 | 8 | 55 |
| 2550 | 7000 | 40 | 15 | 73 |
| 2550 | 7457 | 27 | 9 | 71 |
| 2600 | 6457 | 4 | 9 | 49 |
| 2625 | 7000 | 11 | 6 | 36 |
| 2650 | 6000 | 4 | 8 | 44 |
| 2775 | 7457 | 6 | 16 | 54 |
| 2925 | 7457 | 8 | 21 | 72 |

minfocus international inc. MR. G. HARPER \#707-1243 ISLINGTON AVE.
TORONTO, ONTARIO
M8X 1 Y9

REPORT: V96-01233.0 ( COMPLETE )
CLIENT: MINFOCUS INTERNATIONAL INC.
PROJECT: 95051

REFERENCE: 95051 BJ/JAY

SUBMITTED BY: UNKNOUN DATE PRINTED: 13-AUG-96


| 1 | Au30 | Gold |
| :--- | :--- | :--- |
| 2 | Cu | Copper |
| 3 |  |  |
| Zn | Zinc |  |
| 4 | As | Arsenic |


| SAMPLE TYPES | NUMBER |  |
| :--- | :--- | ---: |
|  | SOIL | 73 |
| R | ROCK | 5 |

## NLMBER OF LOWER

 analyses detection limit extraction method| 78 | 5 PPB | Fire Assay of $\mathbf{3 0 g}$ | 30g Fire Assay - AA |
| ---: | ---: | :--- | :--- |
| 78 | 1 PPM | HCL: HNO3 (3:1) | ATOMIC ABSORPTION |
| 78 | 1 PPM | HCL:HNO3 (3:1) | ATOMIC ABSORPTION |
| 5 | 1.0 PPM | HCL:HNO3 (3:1) | HYDR. GEN/AA |

SIZE FRACTIONS NUMBER

73
5

SAMPLE PREPARATIONS NUMBER
DRY, SIEVE -80 73 CRUSH/SPLIT \& PULV. 5

# Bondar Clegg Inchcape Testing Services 

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

| SAMPLE | ELEMENT | A ${ }^{\text {30 }}$ | Cu | 2n | As | SAMPLE | ELEMENT | A 430 | Cu | 2 n | As |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| IUMEER | UNITS | PPB | PPM | PPM | PPM | NUMBER | UNITS | PPB | PPM | PPM | PPM |
| S1 600W 5000N |  | $<5$ | 17 | 80 |  | S1 3225w 100 N |  | $<5$ | 14 | 85 |  |
| S1 625w 5000N |  | $<5$ | 11 | 57 |  | 513250 W 100 N |  | 24 | 9 | 43 |  |
| 51 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 |  |
| S1850W 5000N |  | $<5$ | 8 | 50 |  | S1 3425W 100N |  | 6 | 8 | 92 |  |
| S1 900W 6000 |  | $<5$ | 4 | 33 |  | s1 3500w 25 N |  | 36 | 26 | 87 |  |
| 511000 W 6000 N |  | $<5$ | 6 | 41 |  | S1 3500W 860N |  | 15 | 71 | 69 |  |
| S1 1100W 6000N |  | $<5$ | 10 | 77 |  | s1 3500w 900N |  | $<5$ | 18 | 55 |  |
| S1 1100w 6457N |  | < | 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 |  | 513500 W 5925 N |  | 24 | 16 | 14 |  |
| S1 1950w 7625N |  | < | 10 | 48 |  | S1 3500以 6075N |  | 6 | 8 | 66 |  |
| 51 1200W 5000N |  | 6 | 10 | 45 |  | S1 3500W 6575N |  | $<5$ | 7 | 68 |  |
| 41 1200W 6000N |  | < | 8 | 60 |  | s1 3500w 7000N |  | $<5$ | 5 | 41 |  |
| S1 1325w 6000 N |  | $<5$ | 10 | 71 |  | si 3500W 7425N |  | $<5$ | 9 | 24 |  |
| S1 1350W 7000N |  | 6 | 6 | 33 |  | s1 3550W 950N |  | 6 | 8 | 40 |  |
| s1 1500H 6000N |  | 11 | 19 | 78 |  | s1 3600W 950N |  | 6 | 21 | 52 |  |
| -s1 1725u 7457N |  | 6 | 21 | 49 |  | S1 3650W 950N |  | 24 | 58 | 79 |  |
| S1 1800w 7000 N |  | 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 3750 W 950 N |  | 23 | 39 | 48 |  |
| s1 2050w 7000 N |  | <5 | 60 | 73 |  | s1 3875W 950N |  | <5 | 38 | 68 |  |
| 51 2075w 7000N |  | 12 | 21 | 84 |  | si 3950W 950N |  | 11 | 30 | 67 |  |
| \$1 2200w 7000 |  | $<5$ | 11 | 53 |  | s1 3957w 150N |  | 7 | 25 | 7 |  |
| - 51 2250W 7000N |  | 12 | 5 | 30 |  | S1 3957W 300N |  | $<5$ | 41 | 108 |  |
| S1 2350w 7000N |  | 9 | 4 | 28 |  | s1 3957N 775N |  | $<5$ | 17 | 51 |  |
| s1 2475w 6457N |  | $<5$ | 9 | 49 |  | S1 4175W ON |  | $<5$ | 12 | 44 |  |
| . 51 2475W 7459N |  | 6 | 8 | 55 |  | S1 4250w ON |  | 29 | 14 | 34 |  |
| S1 2550w 7000 N |  | 40 | 15 | 73 |  | S1 4425w 900N |  | $<5$ | 22 | 25 |  |
| S1 2550W 7457N |  | 27 | 9 | 71 |  | S1 4625w 900N |  | 28 | 21 | 78 |  |
| si 2600w 6457 N |  | < | 9 | 49 |  | S1 4675W 900N |  | $<5$ | 5 | 17 |  |
| S1 2625W 7000N |  | 11 | 6 | 36 |  | S1 4775W 900N |  | < | 19 | 105 |  |
| s1 2650 W 6000 N |  | $<5$ | 8 | 44 |  | R2 3200w 8000N |  | < | 58 | 127 | 3.4 |
| S1 2775H 7457N |  | 6 | 16 | 54 |  | R2 3375W 8000N |  | $<5$ | 17 | 77 | 3.0 |
| S1 2925W 7457N |  | 8 | 21 | 72 |  | R2 3500W 6100N |  | 9 | 19 | 64 | $<9.0$ |
| s1 3050w 750N |  | <5 | 5 | 36 |  | R2 3500W 7550N |  | $<5$ | 27 | 50 | 9.0 |
| s1 3125W 990N |  | <5 | 8 | 33 |  | R2 3500 8000 N |  | $<5$ | 18 | 63 | 2.3 |
| 's1 31504 990N |  | <5 | 11 | 37 |  |  |  |  |  |  |  |
| S1 3200w 100N |  | $<5$ | 6 | 38 |  |  |  | - |  |  |  |




# Bondar Clegg 

minfocus intermational inc.
MR. G. HARPER \#707-1243 ISLINGTON AVE.
TORONTO, ONTARIO
M8X 1 Y9

Bondar Clegg

REPORT: V96-01420.0 ( COMPLETE )

CLIENT: MINFOCUS INTERNATIONAL INC.
RROJECT: 95051


| ORDER |  | ELEMENT |
| ---: | :--- | :--- |
|  |  |  |
| 1 | Au3O | Gold |
| 2 | Ag | Silver |
| 3 | Cu | Copper |
| 4 | Zn | Zinc |

NUMBER OF
LOWER analyses detection limit extraction

| 1 | 5 PPE |
| :--- | ---: |
| 1 | 0.1 PPM |

11 PPM HCL:HNO3 (3:1)
11 PPM HCL:HNO3 (3:1)

METHOD

30g Fire Assay - AA ATOMIC ABSORPTION

ATOMIC ABSORPTION ATOMIC ABSORPTION

s SOIL
number

1

SIZE FRACTIONS

1 -80

NUMBER

1

SAMPLE PREPARATIONS NUMBER
DRY, SIEVE -80 1

Bondar Clegg Inchcape Testing Services


| STANDARD ELEMENT | Au30 | Ag | Cu | 2 n | $\cdots$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LAME UNITS | PPB | PPM | PPM | PPM |  |
| ANALYtical blank | $<5$ | <0.1 | 1 | 1 |  |
| Number of Analyses | 1 | 1 | 1 | 1 |  |
| lean Value | 2.5 | 0.05 | 1.0 | 1.0 |  |
| -Standard Deviation | - | - | - | - |  |
| Accepted Value | 5 | 0.1 | 1 | 1 |  |
|  | - | 0.9 | 313 | 252 |  |
| Number of Analyses | - | 1 | 1 | 1 |  |
| Mean Value | - | 0.90 | 313.0 | 252.0 |  |
| Standard Deviation | - | - | - | - |  |
| Accepted Value | - | 0.8 | 290 | 255 |  |


| CLIENT: MINFOCUS INTERN <br> REPORT: V96-01420.0 | $\begin{aligned} & \text { ONAL I } \\ & \text { LETE } \end{aligned}$ |  |  |  | DATE PRINTED: 17-SEP-96 | PAGE 3 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SAMPLE ELEMENT | Au30 | Ag | Cu | Zn |  |  |  |
| NUMBER UNITS | PPB | PPM | PPM | PPM |  |  |  |
| 8J JV9 5275 550W | 6 | <0.1 | 13 | 31 |  |  |  |
| buplicate | 12 | <0.1 | 11 | 29 |  |  |  |

## Appendix B

## Magnetic Contours of BJ Claims




GAMAH INTERNATIONAL LIMITED MAGNETIC CONTOURS OF BJ CLAIMS Kriged Vaules Watson Lake Area, Yukon Territory

## APPENDIX C

## Electromagnetic Profiles of BJ Claims

Electromagnetic Profile of Line 5000 N


Electromagnetic Profile of Line 5457 N


## Electromagnetic Profile of Line $\mathbf{6 0 0 0} \mathbf{N}$



Electromagnetic Profile of Line 6457 N


Electromagnetic Profile of Line 7000 N


Electromagnetic Profile of Line 7457 N


Electromagnetic Profile of Line 550 W


Electromagnetic Profile of Line 643 W


Electromagnetic Profile of Line 1150 W


Electromagnetic Profile of Line 2873 W


## APPENDIX D

Geophysical Notes



|  | 2425 | 58268 | 0 | 0 |  |  | " |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2450 | 58269 | 1 | 1 |  |  | " |  |  |  |  |  |  |  |  |
|  | 2475 | 58271 | 5. | 2 |  |  | ${ }^{\circ}$ | - |  |  |  |  |  |  |  |
|  | 2500 | 58272 | 8 | 4 |  |  | ${ }^{\circ}$ |  |  |  |  |  |  |  |  |
|  | 2525 | 58273 | 11 | 7 |  |  | " |  |  |  |  |  |  |  |  |
|  | 2550 | 58274 | 6 | 10 |  |  | Pine \& will |  |  |  |  |  |  |  |  |
|  | 2575 | 58271 | 7 | 6 |  |  | (S-MiM-B | 1-98) |  |  |  |  |  |  |  |
|  | 2600 | 58267 | 5 | 1 |  |  | $\square$ |  |  |  |  |  |  |  |  |
|  | 2825 | 58275 | 3 | 6 |  |  | ${ }^{\prime}$ |  |  |  |  |  |  |  |  |
|  | 2650 | 58280 | 0 | 9 |  |  | Sount side | of swamp | near lake |  |  |  |  |  |  |
|  | 2675 | 58263 | -5 | 7 |  |  | " |  |  |  |  |  |  |  |  |
|  | 2700 | 58276 | 5 | -3 |  |  | Over ald ro | oad |  |  |  |  |  |  |  |
|  | 2725 | 58291 | 5 | -9 |  |  | (S-MM-B | (-19) |  |  |  |  |  |  | , |
|  | 2750 | 58276 | 12 | -12 |  |  | - |  |  |  |  |  |  |  |  |
|  | 2775 | 58279 | 10 | -8 |  |  | " |  |  |  |  |  |  |  |  |
|  | 2800 | 58272 | 10 | -13 |  |  | " |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Claim" | BJ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Date | 22-Jut-96 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mag? | Greg |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| VLF: | Mick (Statio | Facng |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes: | Helen |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Triverse: | Working Ea | Tom 200 | 50 W alo | 6000N |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Locatión North | $\begin{gathered} \text { Locition } \\ \text { West } \end{gathered}$ | wiag | $\begin{aligned} & \text { VLF } \\ & \tan q . \end{aligned}$ | Quad? |  | Notes |  |  |  |  |  |  |  |  |  |
| 6000 | 2875 | 58253 | 1 | 05 |  | conifer fon | est note 28 | 73-2900, the | us south line | Is 2900 |  |  |  |  |  |
|  | 2850 | 58261 | 1 | -05 |  | confer fore |  |  |  |  |  |  |  |  |  |
|  | 2825 | 58260 | 3 | 1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2800 | 58258 | 2 | 1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2775 | 58254 | 1 | 1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2750 | 58258 | 4 | 2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2725 | 58262 | 6 | 3 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2700 | 58256 | 4 | 2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2675 | 58258 | 5 | 3 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 2650 | 58265 | 7 | 05 |  | ", S-BJ] |  |  |  |  |  |  |  |  |  |
|  | 2625 | 58261 | 5 | 3 |  | ", note no | sample JV |  |  |  |  |  |  |  |  |
|  | 2600 | 58255 | 3 | 1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2575 | 58256 | 2 | 0 |  | ${ }^{\circ}$ |  |  |  |  |  |  |  |  |  |
|  | 2550 | 58259 | 4 | 2 |  | $1{ }^{19}$ |  |  |  |  |  |  |  |  |  |
|  | 2525 | 58257 | 5 | 0 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 2500 | 58252 | 3 | -2 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 2475 | 58248 | 0 | 1. |  | " |  |  |  |  |  |  |  |  |  |
|  | 2450 | 58250 | 2 | 3 |  | post 60de | g18.29N, 1 | 29deg09 43 | WW, EPE 32m |  |  |  |  |  |  |
|  | 2425 | 58252 | 5 | 3 |  | connter for |  |  |  |  |  |  |  |  |  |
|  | 2400 | 58245 | 6 | 3 | R2 | " |  |  |  |  |  |  |  |  |  |
|  | 2375 | 58249 | 5 | 2 |  | n |  |  |  |  |  |  |  |  |  |
|  | 2350 | 58247 | 8 | 0 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2325 | 58255 | 11 | -2 |  | n |  |  |  |  |  |  |  |  |  |
|  | 2300 | 58261 | 1 | -4 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2275 | 58260 | 1 | 3 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2250 | 58254 | -1 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2225 | 58225 | -2 | -2 |  | ${ }^{\circ}$ |  |  |  |  |  |  |  |  |  |
|  | 2200 | 58254 | -2 | 0 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2175 | 58250 | -4 | 2 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 2150 | 58250 | -5 | 1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2125 | 58255 | -2 | 2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2100 | 58259 | -3 | 0 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 2075 | 58254 | -4 | 1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2050 | 56256 | -4 | 1 |  | ${ }^{\circ}$ |  |  |  |  |  |  |  |  |  |
|  | 2025 | 58253 | -1 | 0 |  | post 80de | 91867N, 1 | 29 deg 0178 | WW, EPE 50m |  |  |  |  |  |  |
|  | 2000 | 58244 | -3 | 2 |  | GPS: + -7 | $6 \mathrm{~m}, 60190$ | 01N, 12001 | OSW (UTM | 09499055E | 6688688N) | , Post is - 10 | 10 m form ro | Ioad in forest |  |
|  | 1975 | 58244 | -4 | 2 |  | Open area | by road | - |  |  |  |  |  |  |  |
|  | 1560 | 58246 | 3 | 1 |  | On road |  |  |  |  |  |  |  |  |  |
|  | 1925 | 58250 | -8 | -1 |  | Open area | by road |  |  |  |  |  |  |  |  |
|  | 1900 | 58255 | -9 | 0 |  | Edge of fo | rest |  |  |  |  |  |  |  |  |
|  | 1875 | 58251 | -8 | 0 |  | Evergreen | forest |  |  |  |  |  |  |  |  |
|  | 1850 | 58246 | -10 | 1 |  | ${ }^{\prime}$ |  |  |  |  |  |  |  |  |  |
|  | 1825 | 58244 | -9 | 2 |  | Willow und | dergrowth |  |  |  |  |  |  |  |  |
|  | 1800 | 58253 | -9 | 3 |  | Evergreen | forest |  |  |  |  |  |  |  |  |
|  | 1775 | 58254 | -8 | 3 |  | - |  |  |  |  |  |  |  |  |  |
|  | 1750 | 58248 | -7 | 3 |  | strght dec | cine |  |  |  |  |  |  |  |  |
| . | 1725 | 58247 | -7 | 3 |  | ${ }^{\prime}$ | " |  |  |  |  |  |  |  |  |
|  | 1700 | 58238 | - 8 | 4 |  | - | - " |  |  |  |  |  |  |  |  |
|  | 1675 | 58246 | -8 | 4 |  | " | " |  |  |  |  |  |  |  |  |
|  | 1650 | 58247 | -8 | 3 |  | ${ }^{\prime \prime}$ | ${ }^{\prime}$ |  |  |  |  |  |  |  |  |
|  | 1625 | 58240 | -4 | 5 |  | ${ }^{\prime \prime}$ | " |  |  |  |  |  |  |  |  |
|  | 1800 | 58229 | -3 | 5 |  | ${ }^{\circ}$ | $\square$ |  |  |  |  |  |  |  |  |
|  | 1575 | 58231 | . 5 | 2 |  | Swampy |  |  |  |  |  |  |  |  |  |



|  | 1100 | 58228 | 14 | -4 |  | , (S-BJHH- |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1125 | 58231 | 12 | -4 |  | Willow, pine |  |  |  |  |  |  |  |  |  |
|  | 1150 | 58233 | 8 | -3 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1475 | 58233 | 8 | -3 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1200 | 58237 | 9 | 0 |  |  |  |  |  |  |  |  |  |  |  |
|  | 1225 | 58235 | 8 | 3 |  | Pine forest |  |  |  |  |  |  |  |  |  |
|  | 1250 | 58236 | 3 | 0 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1275 | 58242 | 0 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1300 | 58248 | 7 | 3 |  | " |  |  |  |  |  |  |  |  |  |
|  | \$325 | 58244 | 12 | 6 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1350 | 58244 | 15 | 6 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1375 | 58246 | 14 | 4 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1400 | 58244 | 10 | 3 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1425 | 58241 | 11 | 0 |  | ${ }^{\prime}$ |  |  |  |  |  |  |  |  |  |
|  | 1450 | 58242 | 5 | -1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1475 | 58245 | -1 | 0 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1500 | 58248 | 1 | 1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1525 | 58248 | 3 | 4 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1550 | 58239 | 0 | 5 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1575 | 58248 | -2 | 7 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1600 | 58243 | -3 | 8 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1825 | 58246 | 0 | 6 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1650 | 58251 | 2 | 1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1675 | 58235 | 3 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1700 | 58259 | 1 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 4725 | 58248 | -2 | 1 |  | ${ }^{\circ}$ |  |  |  |  |  |  |  |  |  |
|  | 1750 | 58239 | 0 | 0 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 1775 | 58251 | -1 | -1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1800 | 58246 | -5 | - |  | " |  |  |  |  |  |  |  |  |  |
|  | 1825 | 58249 | -7 | -2 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 1850 | 58242 | -10 | -1 |  | ${ }^{\prime}$ |  |  |  |  |  |  |  |  |  |
|  | 1875 | 58241 | -6 | 0 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1900 | 58246 | -4 | 0 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1925 | 58253 | -4 | -1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1950 | 58252 | -3 | -1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1975 | 58241 | -2 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2000 | 58244 | -4 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2025 | 58251 | -3 | 3 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2050 | 58247 | -7 | -4 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 2075 | 58250 | -5 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2100 | 58251 | 0 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2125 | 58251 | 3 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2150 | 58247 | 4 | -2 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 2175 | 58248 | 4 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2200 | 58249 | 5 | 0 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2225 | 58250 | -1 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2250 | 58248 | -8 | -6 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2275 | 58240 | -5 | -4 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2350 | 58256 | 2 | 1 | R3 | evergreen forest, no undergrowth, fallen logs |  |  |  |  |  |  |  |  |  |
|  | 2375 | 58253 | 9 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2400 | 58248 | 6 | 2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2425 | 58256 | 6 | -4 |  | willow and road bearng 225 degrees west |  |  |  |  |  |  |  |  |  |
|  | 2450 | 58257 | 1 | 1 |  | willow |  |  |  |  |  |  |  |  |  |
|  | 2475 | 58250 | 4 | 0 |  | back to evergreen forest S-BJ- ${ }^{\text {d }}$-1 |  |  |  |  |  |  |  |  |  |
|  | 2500 | 58261 | -8 | -2 |  | conifer forest, moss floor |  |  |  |  |  |  |  |  |  |
|  | 2525 | 58250 | -7 | 0 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2550 | 58252 | -5 | 4 |  | ${ }^{\prime}$ |  |  |  |  |  |  |  |  |  |
|  | 2575 | 58250 | -9 | 1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2600 | 58272 | -3 | 15 |  | \% 5 S- 8 JJV-2 |  |  |  |  |  |  |  |  |  |
|  | 2525 | 58275 | -5 | 2 |  | ${ }^{\circ}$ |  |  |  |  |  |  |  |  |  |
|  | 2650 | 58246 | -2 | 4 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 2675 | 58259 | -1 | 4 |  | ${ }^{\circ}$ |  |  |  |  |  |  |  |  |  |
|  | 2700 | 58243 | -2 | 2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2725 | 58244 | 1 | 2 |  | connfer forest |  |  |  |  |  |  |  |  |  |
|  | 2750 | 58250 | 2 | 3 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2775 | 58260 | 2 | 4 |  | hit road again |  |  |  |  |  |  |  |  |  |
|  | 2800 | 58254 | 5 | 2 |  | conifer forest |  |  |  |  |  |  |  |  |  |
|  | 2825 | 58253 | 4 | 3 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2850 | 58253 | 7 | 0 |  | " |  |  |  |  |  |  |  |  |  |
|  | 2873 | 58250 | 5 | 25 |  | ${ }^{\circ}$ |  |  |  |  |  |  |  |  |  |
|  | 2873 | 58280 | 6 | 2 |  | change drection from west to south beaning |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Chim: | B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $23-\sqrt{14}-96$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mag: | Mick | (east) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| VLF: | Helen | (east, stat |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes: | Jocelain |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Traverge: | west on line 5000N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Location Ntorth | Location Wist. | Mrag | in phase | VEF | Rating | ates |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - 5000 | 550 | 58273 | -10 | 0 |  | \|S-BJVV-8| |  |  |  |  |  |  |  |  |  |
|  | 575 | 58260 | -9 | 0 |  | S-BJ-JV-7 |  |  |  |  |  |  |  |  |  |
|  | 600 | 58278 | -7 | 0 |  | evergreen fo | forest with \& | some underg | growth |  |  |  |  |  |  |
|  | 625 | 58284 | 2 | 2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 650 | 58277 | 1 | 1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 675 | 58271 | 3 | -1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 700 | 58273 | 3 | -1 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 725 | 58268 | 4 | 0 |  | " |  |  |  |  |  |  |  |  |  |
|  | 750 | 58286 | 10 | 3 |  | ", Posts 433 | 3, 34, 35 \& | 36,60deg17 | 66N, 129de | deg00 62W, | EFE 49m |  |  |  |  |
|  | 775 | 58260 | 13 | 2 |  | ${ }^{-}$ |  |  |  |  |  |  |  |  |  |
|  | 800 | 58250 | 8 | 2 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 825 | 58274 | 8 | 1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 850 | 58279 | 9 | -1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 875 | 58270 | 8 | -2.5 |  | " |  |  |  |  |  |  |  |  |  |
|  | 500 | 58263 | 9 | -3 |  | [", undergrow | owth |  |  |  |  |  |  |  |  |
|  | 925 | 58267 | 10 | -2 |  | old read bea | earing 339 d | deg north |  |  |  |  |  |  |  |
|  | 950 | 58249 | 10 | -05 |  | evergreen for | forest with a | a bit of under | rarowh |  |  |  |  |  |  |
|  | 975 | 58250 | 8 | 1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1000 | 58251 | 6 | 0 |  | a bit more u | undergrowth | th and fallen tr | 5 |  |  |  |  |  |  |
|  | 1025 | 58257 | 7 | 2 |  | less underg | growth |  |  |  |  |  |  |  |  |
|  | 1050 | 58250 | 9 | 2.5 |  | evergreen w | with no und | dergrowth |  |  |  |  |  |  |  |
|  | 1075 | 58267 | 8 | 3 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 1100 | 58255 | 6 | 4 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1125 | 58266 | 6 | 3 |  | Boggy area | a water and | rushing strea | am |  |  |  |  |  |  |
|  | 1150 | 58260 | 4 | 4 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1175 | 58250 | 2 | 8 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 1200 | 58256 | 2 | 4 |  | Posts © 60 | Odeg 18.50 N | and 1200deg | 0051W EP | PE 39 |  |  |  |  |  |
|  | 1225 | 58260 | 1 | 1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1250 | 58250 | -4 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1275 | 58261 | -4 | 0 |  | Coniferous | forest |  |  |  |  |  |  |  |  |
|  | 1300 | 58252 | -8 | -1 |  | 1" |  |  |  |  |  |  |  |  |  |
|  | 1325 | 58251 | -9 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1350 | 58259 | -14 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1375 | 58260 | -14 | 0 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1400 | 58245 | -18 | 0 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1425 | 58129 | -15 | 0 |  | ${ }^{\circ}$ |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Traverse ${ }^{\text {a }}$ : | west on line | 5457 N |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5457 | 550 | 58280 | 7 | 7 |  | overgreen for | forest w und | dergrowth and |  |  |  |  |  |  |  |
|  | 575 | 58266 | 7 | 8 |  | and failen tr | trees |  |  |  |  |  |  |  |  |
|  | 600 | 58267 | 8 | 9 |  | " |  |  |  |  |  |  |  |  |  |
|  | 625 | 58271 | 9 | 4 |  | " |  |  |  |  |  |  |  |  |  |
|  | 650 | 58258 | 9 | 4 |  | " |  |  |  |  |  |  |  |  |  |
|  | 675 | 58260 | 7 | 3 |  | ${ }^{1 \times}$ |  |  |  |  |  |  |  |  |  |
|  | 700 | 58284 | 5 | -4 |  | " |  |  |  |  |  |  |  |  |  |
|  | 725 | 58270 | 5 | -5 |  | " |  |  |  |  |  |  |  |  |  |
|  | 750 | 58268 | 4 | 6 |  | " |  |  |  |  |  |  |  |  |  |
|  | 775 | 58258 | 4 | -5 | 2 | " |  |  |  |  |  |  |  |  |  |
|  | 800 | 58260 | 2 | -11 | 2.5 | " |  |  |  |  |  |  |  |  |  |
|  | 825 | 58263 | 2 | -5 |  | "' |  |  |  |  |  |  |  |  |  |
|  | 850 | 58260 | 2 | - 5 |  | + |  |  |  |  |  |  |  |  |  |
|  | 875 | 58263 | 3 | -7 |  | " |  |  |  |  |  |  |  |  |  |
|  | 900 | 58258 | 7 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 925 | 58257 | = 12 | 2 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 950 | 58253 | 6 | 3 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 975 | 58256 | 4 | 0 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1000 | 58262 | -3 | -1 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1025 | 58255 | -5 | -5 |  | '" |  |  |  |  |  |  |  |  |  |
|  | 1050 | 58257 | -5 | -7 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1075 | 58255 | 0 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1100 | 58258 | 1 | -4 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1125 | 58265 | 9 | -8 |  | ${ }^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |
|  | 1950 | 58257 | 11 | -2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1175 | 58254 | 2 | 3 |  | ${ }^{\text {+ }}$ |  |  |  |  |  |  |  |  |  |
|  | 1200 | 58264 | 2 | -3 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1225 | 58270 | 7 | -1 |  | ${ }^{*}$ |  |  |  |  |  |  |  |  |  |
|  | 1250 | 58264 | 9 | 2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1275 | 58258 | 10 | 2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1300 | 58253 | 11 | 3 |  | ${ }^{\circ}$ |  |  |  |  |  |  |  |  | - |
|  | 1325 | 58254 | 6 | 2 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1350 | 58260 | 4 | 2 |  | ' |  |  |  |  |  |  |  |  |  |
|  | 1375 | 58245 | 3 | 4 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1400 | 58253 | 7 | 3 |  | " |  |  |  |  |  |  |  |  |  |
|  | 1425 | 58254 | 0 | 1 |  | willow and | thick under | rarowth |  |  |  |  |  |  |  |
|  | 1450 | 58260 | -2 | 0 |  | Stream and | d thack unde | dergrowth |  |  |  |  |  |  |  |
|  | 1475 | 58250 | -3 | 1 |  | " ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |
|  | 1500 | 58260 | -5 | 1 |  | comferous | forest sprue | cee and pins |  |  |  |  |  |  |  |
|  | 1525 | 58264 | -6 | 2 |  |  |  |  |  |  |  |  |  |  |  |



