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MINING LANDS SECTION

A REPORT ON GEOPHYSICAL WORK ON THE
KASHAWEOGAMA PROPERTY, NORTHWESTERN ONTARIO,
DURING 1990

November 1, 1990

G.M. Hogg & Associates Ltd.,
28 Thompson Avenue,
Toronto, Ontario M8Z 3T3

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INTRODUCTION

The Kash gold property consists of 37 contiguous, unpatented mining claims located in the Savant Lake area of northwestern Ontario. It lies approximately five miles west of Highway 599 which runs between Ignace and Pickle Lake (see Figure 1), and is easily accessible by boat on Kashaweogama Lake.

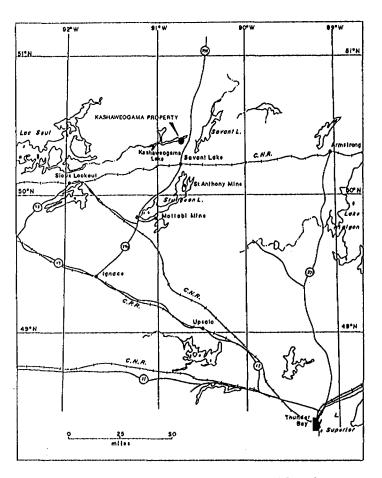


Figure 1: Location of the Kashaweogama Gold Property.

The original claims of the property were acquired through staking by R.G. Ramsay and G.M. Hogg in 1986, and peripheral claims have since been added.

The purpose of this report is to describe the geophysical survey work carried out in the northwestern part of the property during August, 1990. This was carried out by R.G. Ramsay, operator, using local labour for line cutting purposes.

All VLF-EM data considered in this report is derived from the survey completed by R.G. Ramsay. Compilation and interpretation has been done by G.M. Hogg, P.Eng.

PROPERTY ACCESS, CULTURE

The property lies about 5 miles west of Highway 599, which runs between Savant Lake and Pickle Lake in northwestern Ontario. It is easily accessible via the waters of Kashaweogama Lake from a boat landing which located about $\frac{1}{2}$ mile west of the highway. There is also a bush road running west from the boat landing which extends to within one mile of the property.

The area is wooded with spruce, poplar and pine, with second growth in areas which were cut in the past. It has a maximum relief of about 25 meters, and has moderate outcrop exposure. Overburden is generally composed of sand and poorly sorted glacial till. The area drains west through the Marchington River into the Lac Seul system which is part of the James Bay watershed.

The nearest hydroelectric facility is the power line running north to Pickle Lake close to Highway 599. Local labor and supplies are available at Savant Lake about 15 miles to the south. The nearest active mining area is the Mattabi district lying about 60 kilometers south close to Highway 599.

CLAIM STATUS, OWNERSHIP

The property consists of 37 contiguous, unpatented mining claims. They are currently in good standing, and title is registered in the name of R.G. Ramsay. They are illustrated in Figure 2 to this report.

In reference to Figure 2, the 8 mining claims comprising the northwestern part of the property were staked in 1989 (claims PA 1091230-1091237 incl.). It was in this area that the geophysical surveying completed during 1990 was carried out.

GEOLOGICAL SUMMARY

The Kashaweogama, or Kash property lies on the northern rim of the Savant-Kashaweogama metasedimentary basin. The basin area contains magnetic iron formation, conglomerate, quartzite and lesser mafic volcanic material. It is bounded by mafic volcanics interbedded with conglomerate and generally siliceous and tuffaceous metasediments in the property area, these containing variable amounts of sulphide mineralization. The gross magnetic signature in the property vicinity is illustrated in Figure 3 to this report.

The area is structurally complex, and the various rock units show considerable evidence of widespread folding and faulting. In reference to Figure 3, a large thrust fault is interpreted to underlie Kashaweogama Lake striking at Az. 80°. Within the property area basin rocks lie to the south of this locus, and mafic volcanics with interbedded metasediments to the north.

Sulphide mineralization is commonly associated with metasediments in the property area, and consists dominantly of pyrite. It is probably of

SCALE: 1 inch - 2,000 feet

syngenetic origin, representing a pyritic facies of iron formation in the basin rim area. However, chalcopyrite, galena and sphalerite are also present, as well as highly anomalous quantities of gold and silver. In some locations, notably the Sidore prospect area on the north shore, strong development of quartz veining containing visible gold has been noted.

Insofar as the northern part of the property appears particularly complex structurally and exhibits the greatest frequency of mineral occurrence, exploration efforts during 1990 have been concentrated therein. VLF-EM surveying was undertaken in an effort to trace mineralized formations in this area, and also to define locations of particularly strong structural deformation within them. It will be noted that graphite is not a common mineral constituent of the rock units in this vicinity, so conductivity may be expected to be largely a response to the presence of sulphide mineralization or strong, wet shear systems.

GEOPHYSICAL SURVEY OPERATIONS

GENERAL COMMENTS:

As indicated on Maps No. 1 and No. 2 (in pocket), the 1990 VLF-EM survey area lies within claims PA 1091230, 1091231, 1091232, 1091233 and 1091234 of the Kash property. Map No. 1 shows the in phase and out of phase VLF-EM readings over the grid area. Map No. 2 shows the Fraser Filter contour plan over this same area. As well, Map No. 2 shows the contoured VLF-EM plan over the northern part of the Redaurum Grid which was completed in 1988. The area surveyed during 1990 is indicated in Figure 2.

The 1990 Grid Area includes a 2,800 foot base line (Az. 100°), and 10 cross lines totalling 19,300 linear feet. This grid was cut and chained during August, 1990, and concurrently surveyed by VLF-EM methods. Plotting

and interpretation of the resulting data was done during September, 1990.

EQUIPMENT & SURVEY PROCEDURE:

The survey was completed by R.G. Ramsay using a Ronka EM-16 unit. The transmission signal from Station NAA, Cutler, Maine, at a frequency of 24.0 kHz was utilized for survey purposes.

In phase and out of phase readings were taken at stations spaced at 100 foot intervals over the crosslines of the grid area. A total of 200 readings were taken over the survey area.

PERSONNEL, SURVEY PERIOD:

One operator and two linecutters completed the survey during the period August 14th to August 21st, inclusive (8 days). The personnel employed are listed as follows:

Operator: R.G. Ramsay, 10 Cook Street, Barrie, Ontario

Linecutter: H. Maggotte, Savant Lake, Ontario Linecutter: P. Machimity, Savant Lake, Ontario

RESULTS OF SURVEY

In reference to Map No. 1 (in pocket), a strongly conductive zone is indicated striking in an easterly direction across the grid area. It extends from 12W, 12+50N to 10E, 6+50N, and appears to continue beyond the grid area to the east and west. This conductive zone is multiple in character in the vicinity of line 0+00.

Other weakly conductive zones occur within the grid area, including a marginal response at 4W, 17+50N. This is in the vicinity of a strongly mineralized quartz vein system known as the "North Zone".

Suprisingly, no response was obtained in the vicinity of the "Cliff Zone" at 7E, 6+50S. This is a broadly sheared and mineralized area in graywacke containing up to 10 percent disseminated sulphides.

Map No. 2 (in pocket) shows the contoured VLF-EM data, and indicates the strong conductor at 12W, 12+50N to be displaced by either folding or faulting in the vicinity of 0+00, 8+00N. As the "Stringer Zone", which is a variably mineralized system of crenulated quartz veining, occurs just south of the conductor, and a strong system of easterly-trending shearing occurs just to the south of it, the conductive area clearly warrants further evaluation.

In respect to the "Cliff Zone" area, it appears that the most strongly conductive part of the mineralized system lies just to the south of the grid area (as indicated by the results of the Redaurum survey of 1988). Accordingly, any response from the broadly mineralized area immediately north has probably been masked by this strongly conductive locus. It will be noted that both geological and geophysical data indicate structural complexity to exist in this area also.

CONCLUSIONS & RECOMMENDATIONS

The northwest part of the Kash property was surveyed by VLF-EM methods during August, 1990. This is the first ground geophysical surveying done in this area.

The survey results suggest that well-mineralized formational units extend

in an easterly direction across the grid area, and that they are disturbed by folding and/or faulting action. As such formations in this area are known to be polymetallic and highly anomalous, and since there is abundant evidence of the development of strong shearing and quartz veining in the area, these disturbed areas in particular could well be of economic interest.

It is recommended that a limited program of reconnaissance drilling be undertaken to determine the nature of these conductive horizons.

Respectfully Submitted,

G.M. HOGG & ASSOCIATES LTD.

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T. Anderson Mining Lands Section

1/59 Cedar Street, 4th Floor

Ministry of Northern Development and Mines

MINING LANDS BRANCH

SUDBURY, Ontario P3E 6A5

Ministère du Développement du Nord et des Mines

Telephone: (705) 670-7264

(705) 670-7262

Your File: W9003.255 Our File: 2.13651

February 19, 1991

Mining Recorder Ministry of Northern Development and Mines Court House Building P.O. Box 3000 SIOUX LOOKOUT, Ontario POV 2TO

Dear Madam/Sir:

Notice of Intent dated January 17, 1991 for Geophysical RE: (Electromagnetic) Survey submitted on Mining Claim Pa 1091230 et al in Armit Lake Area.

assessment work credits, as listed with the above mentioned Notice of Intent have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Years sincerely. Non C Goshost

R. C. Gashinski Provincial Manager, Mining Lands Mines and Minerals Division As

DM/dvl Enclosure

Mr. W. D. Tieman cc: Mining and Lands Commissioner Toronto, Ontario

Resident Geologist Sioux Lookout, Ontario

Raymond G. Ramsay Barrie, Ontario

G. M. Hogg Toronto, Ontario



Ministry of Northern Development and Mines

Technical Assessment Work Credits

	File
	2.13651
Date	Mining Recorder's Report of
Jan. 17/91	ww9003.255

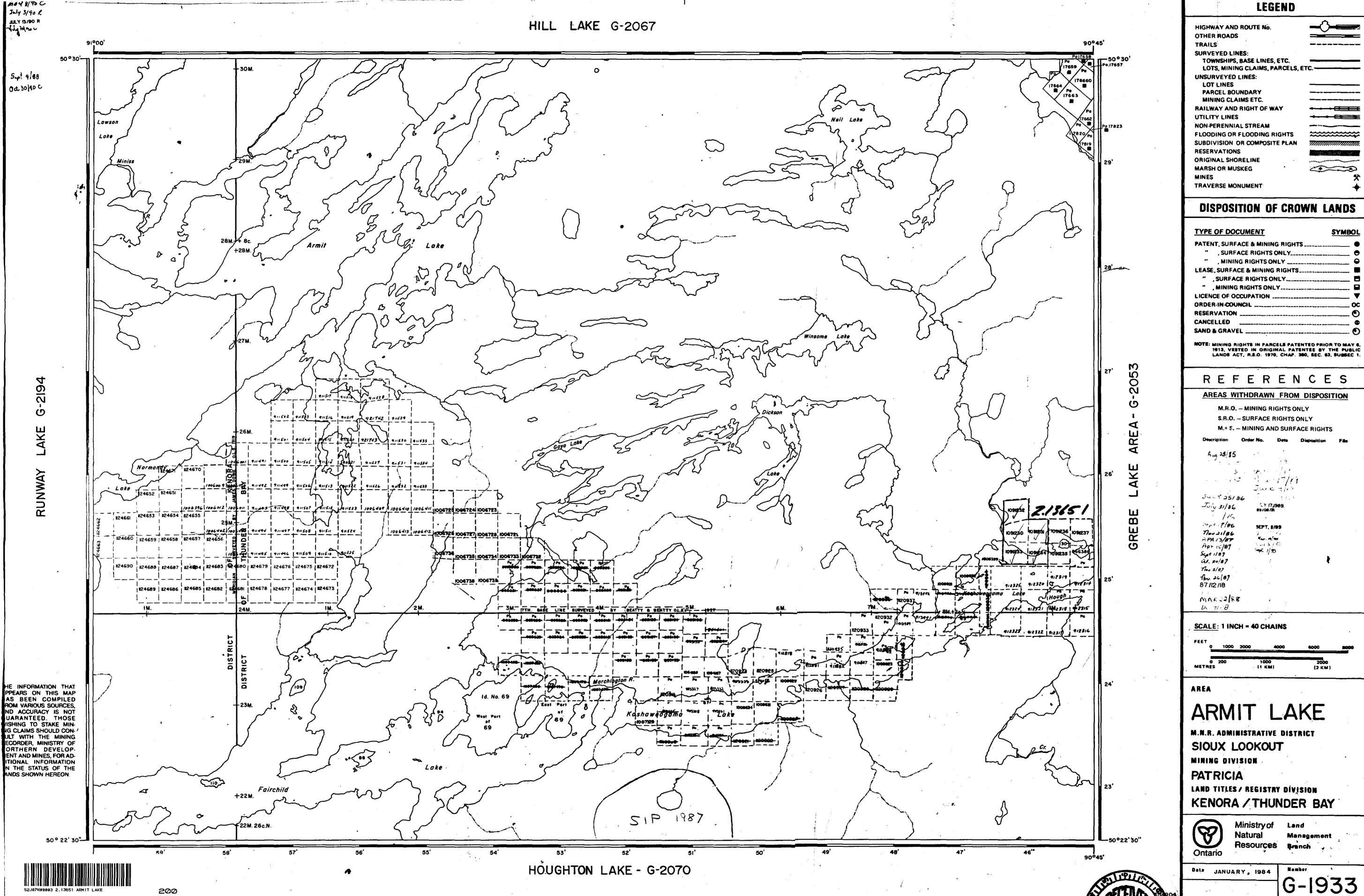
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Recorded Holder	
Raymond G. Ramsay	
Type of survey and number of	
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Credits have been reduced because of corrections to work dates and figures of applicant.	
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No credits have been allowed for the following mining o	daims
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The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical -80; Geologocal -40; Geochemical -40; Section 77(19) -60.

(A)	Ministry of	Report of Work		DOCUME		nstructions: —			
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I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.



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