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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.

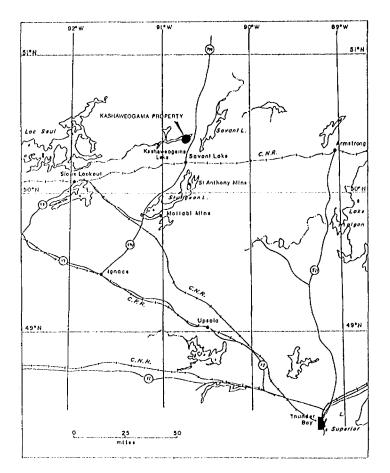


Figure 1: Location of the Kashaweogama Gold Property.

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.

Exploratory work on the property during 1990 was largely funded by a Prospector's Assistance grant from the Ontario government, and it is the partial purpose of this report to compile the resulting data for regulatory submission. However, the report also provides a reasonably complete summary of previous work on the property, and an interim assessment of its economic potential.

Data utilized in the preparation of this report includes information from governmental publications and assessment files, from the records of Redaurum Red Jake Mines Ltd. which held an option on the property from 1987 to 1989, and that derived directly from exploratory work by the owners. We are grateful for the assistance of Ms. Sanborn-Barrie of the O.G.S. who performed regional mapping in the area during the past year, and for the financial assistance of the Ontario government during 1990.

PROPERTY ACCESS, CULTURE

The property lies about 5 miles west of Highway 599, which runs between Ignace and Pickle Lake in northwestern Ontario. The nearest settlement is the village of Savant lake, located about 15 miles to the south on Highway 599. The property is easily accessible via the waters of Kashaweogama Lake from a boat landing situated about $\frac{1}{2}$ mile west of the highway. There is also a bush road running west from the boat landing which extends within one mile of the property on the south shore. The property lies within the Patricia Mining Division and the Administrative District of Thunder Bay.

The area is wooded with spruce, poplar and pine, with second growth in areas which have been cut in the past. It has a maximum relief of about 25 meters, and exhibits moderate to poor outcrop exposure. Overburden is generally composed of sand and poorly sorted glacial till.

Some labour and supplies are available in Savant Lake, but more extensive facilities are found in the accessible communities of Sioux Lookout and lgnace (see Figure 1). The nearest active mining operations are centered in the Mattabi area, about 40 miles to the south.

CLAIM STATUS, OWNERSHIP

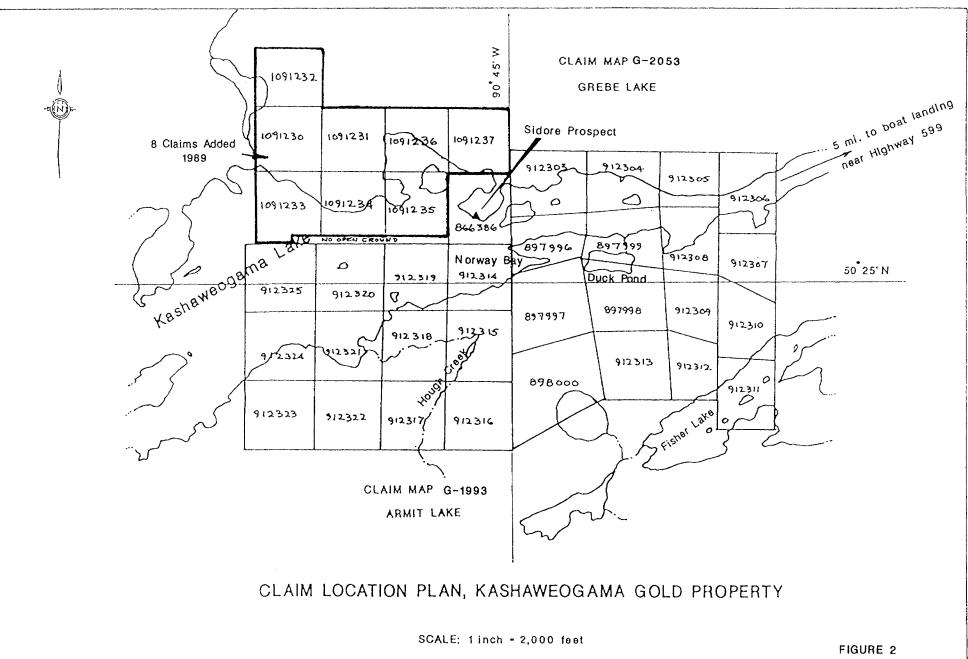
The 37 unpatented mining claims currently making up the Kashaweogama, or Kash property are illustrated in Figure 2. Claim ownership is registered in the name of R.G. Ramsay, and they are held by R.G. Ramsay and G.M. Hogg & Associates Ltd. as equal partners. The status of the claims to date is shown in the following tabulation:

Claim No.	Status of Claims
PA 866386	Sufficient work credits to July 25/92
PA 897996 897997 897998 897999 898000	Sufficient work credits to April 21/91 Extension granted to October 21/91 Extension granted to October 21/91 Sufficient work credits to October 21/91 Extension granted to October 21/91
PA 912303-325 incl.	Extension requested to November 21/91
PA 1091230-237 incl.	Work submitted. Will provide sufficient assessment work credit to September 14/91

To date, therefore, subject to the approval of work submitted and the request for extension outstanding, all claims are in good standing until their due dates in 1991.

HISTORY

The Kashaweogama area was prospected for gold and base metals by Northern Canada Mines Ltd. during the 1940's. At this time the Sidore gold prospect



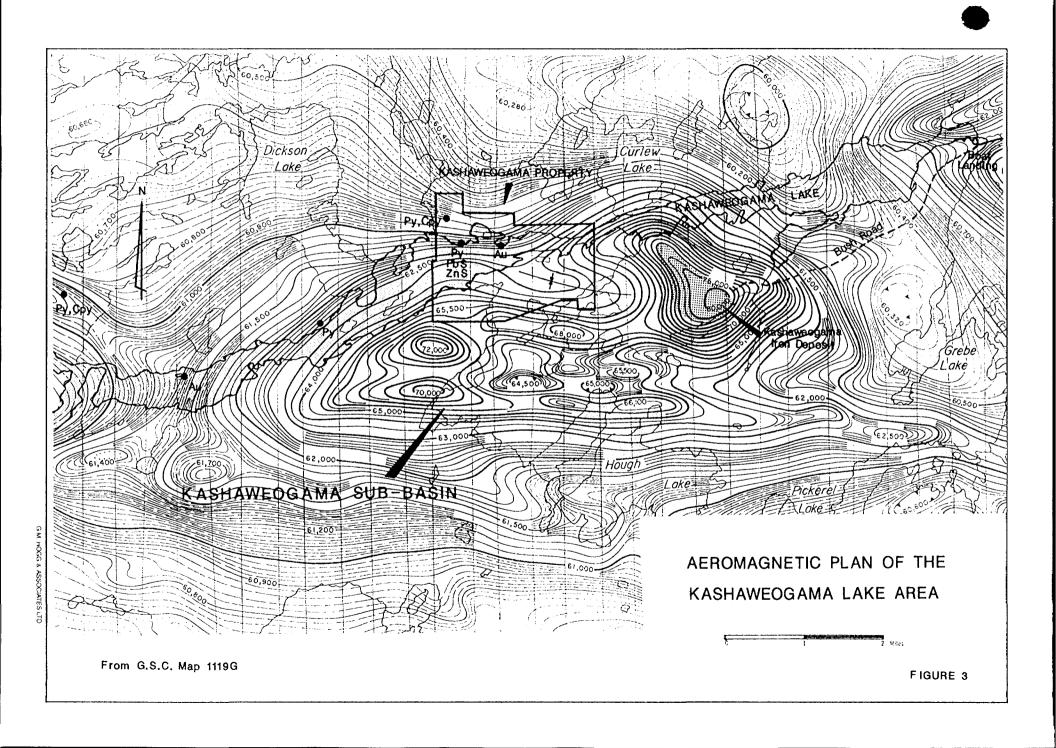
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and other locations in the northwest property area were trenched, but no drilling was done.

Through the 1950's and 1960's several major steel companies evaluated the iron ore potential of the area, concentrating mainly on the magnetite iron formation of the basin interior. Also at this time some evaluation work was carried out on the carbonate-rich iron formation within the mafic volcanic complex north of Kashaweogama Lake. It was during this period that the Kashaweogama iron deposit lying immediately east of the Kash property was outlined (see Figure 3). The core of this deposit is estimated to contain approximately 400,000 tons per vertical foot of material grading about 30 percent soluble iron with excellent beneficiating qualities.

During the early 1980's Dome Exploration acquired a claim area about 5 miles west of the Kash property within the northern volcanic belt, and presumeably carried out evaluation of gold occurrences in this area. Also during this period Stargazer Resources of Calgary undertook an extensive exploration program designed to evaluate the gold potential of the Savant-Kashaweogama basin rim area. This program was geochemically oriented, and identified the area in the vicinity of the Kash property as being very highly anomalous in gold. Prior to the termination of this program in 1984 because of the lack of funds, Stargazer Resources carried out airborne and ground geophysical surveying in this locale and drilled one exploratory hole on Kashaweogama Lake to test a strongly conductive zone. This intersected the major Kashaweogama fault zone reporting pyrite mineralization and very low gold values.

In 1986 Ramsay and Hogg proceeded with the staking of the initial 29 Kash property claims, mainly to cover a geochemically active area associated with a marked indentation along the north rim of the Kashaweogama basin (defined by aeromagnetic data, see Figure 3). The property was optioned to



Redaurum Red lake Mines Ltd. in 1987, and this company carried out mapping, geophysical and geochemical surveying, and some trenching during the following two years. Although several excellent targets were developed in the course of this work no drilling was done by Redaurum, and the option was terminated in 1989 due to financial difficulties. Subsequent prospecting and sampling by the owners led to the staking of an additional 8 claims during late 1989, these now comprising the northwest property area.

Immediately to the west of the Kash property Northern Dynasty Explorations Ltd. acquired a large claim area in 1987. This property included a gold prospect hosted by "green carbonate" rocks located on an island about 3 miles west of the Kash property. During the following two years Northern Dynasty carried out extensive mapping along the north shore of Kashaweogama Lake, and drilled 5 exploratory holes from the north shore in the prospect vicinity. These widely spaced holes intersected considerable widths of mineralized and veined cherty metasediments underlying the lake, but failed to report any gold values of economic significance.

In respect to the Kash property it is interesting to note that claims PA 897996 and 897999 were cancelled by the Sioux Lookout mining recorder in late 1987. This was done because of alleged staking infractions under a departmental concept of "cumulative defects". An appeal to the Mining and Lands Commissioner was heard in early 1988, and the reinstatement of the claims was denied. Ramsay and Hogg took the matter to the Supreme Court of Ontario, and in May, 1989, the court ordered the claims reinstated with costs. It was ruled that the Commissioner's decision was in contravention to the doctrine of substantial compliance in staking as embodied in the Mining Act. This is considered a precidential judgement, ensuring that mining claims in the Province of Ontario cannot be invalidated on the basis of a bureaucratic edict.

REGIONAL GEOLOGY

The Kashaweogama-Savant area forms the northeastern extremity of a large "greenstone belt" extending to the south through Sturgeon Lake and to the west into the Lake of the Woods district. In this location the Savant-Kashaweogama metasedimentary basin occurs, this covering an elliptical area approximately 20 miles in length and up to 5 miles in width. The basin contact is sinuous, tracing two distinct lobes termed the Savant and Kashaweogama sub-basins.

The Kash property is situated along the northern rim of the Kashaweogama sub-basin, which is traced aeromagnetically in Figure 3. The high magnetic response over the basin area is, of course, due to the contained magnetite iron formation which is highly folded and interbedded with arenites, siltstones and some mafic tuffaceous units.

Toward the basin rim mafic volcanics, graywacke and conglomerate become the dominant rock types, and a pyritic facies of the iron formation is often present. Amphibolitic mafic volcanics with siliceous and variably tuffaceous interbeds occur bounding the basin structure to the north. These rocks exhibit a higher grade of metamorphism than the basin units, and in places gneissic to massive granodiorite and/or monzonite are present. Further to the north occurrences of ultramafic rocks have been reported, but as the area is virtually unmapped this remains unsubstantiated.

Within the basin area, which was presumeably downfolded into the crustal milieu during a period of Precambrian orogenic activity, folding is the dominant agency of structural failure. Toward the basin rim, however, faulting becomes increasingly prevalent and basinal and rim rock units appear to be in concordant contact in some instances, and in fault contact in others. The O.G.S. mapping during 1990 suggests that Kashaweogama Lake

itself is underlain by a major thrust fault which dips steeply north and exhibits a north side up displacement. This, as well as the aforementioned lithological character of the area, is entirely consistent with a process of protracted volcano/sedimentary accumulation in a shallow marine environment followed by geosynclinal collapse.

PROPERTY GEOLOGY

GENERAL CONSIDERATIONS:

One of the factors considered in the acquisition of the Kash property was the marked magnetic indentation occurring along the north rim of the Kashaweogama sub-basin (see Figure 3). This was interpreted as a major synclinal fold structure which, in view of the known geochemically active character of the area and the presence of the Sidore gold occurrence, was thought to constitute an excellent prospecting area.

Following confirmatory prospecting and rock geochemical sampling the original 29 claims were staked, and the property was subsequently optioned to Redaurum. During the following two year period the property was mapped, surveyed geophysically and partially covered by geochemical surveying. Maps No. 1, No. 2, and No. 3 (in pocket), to which later data has been added as appropriate, show the results of this work. These maps will be referred to in the following sections of this report.

GENERAL GEOLOGY:

In reference to Map No. 1, the southern part of the property is underlain by cherty iron formation (oxide and sulphide facies), siltstone, arenites, conglomerates and mafic volcanics. Where exposed these rocks are found to dip steeply north and exhibit a general easterly-trending schistosity.

Minor folding is clearly extensive within this area, and it appears that the postulated Fisher Lake syncline does in fact exist. Based on observations in the vicinity of the Kashaweogama iron deposit immediately to the east, the gross synclinal structure is thought to plunge steeply west.

North of the Kashaweogama fault zone, which is considered a thrust fault, the area is underlain by amphibolitic mafic volcanics, tuffaceous to siliceous graywacke, arenites and conglomerate. These rocks are often highly schistose, strongly folded, and appear to be cut by a series of northeasterly-trending crossfaults. In general the formations of this area exhibit the same steep northerly dips and easterly-trending schistosity noted in the southern property area.

Lithologically two interesting features may be noted. These are (1) that felsic clasts predominate in the conglomerates of the south property area while granitoid clasts predominate in the northern conglomerates, and (2) that graphite is not a common constituent of the sediments of the area.

The VLF-EM contour plan of the entire property area is shown on Map No. 2. Moderate to strong conductivity is indicated throughout the property area, and this is believed chiefly a response to sulphide-bearing sedimentary formations. However, the following exceptions may be noted:

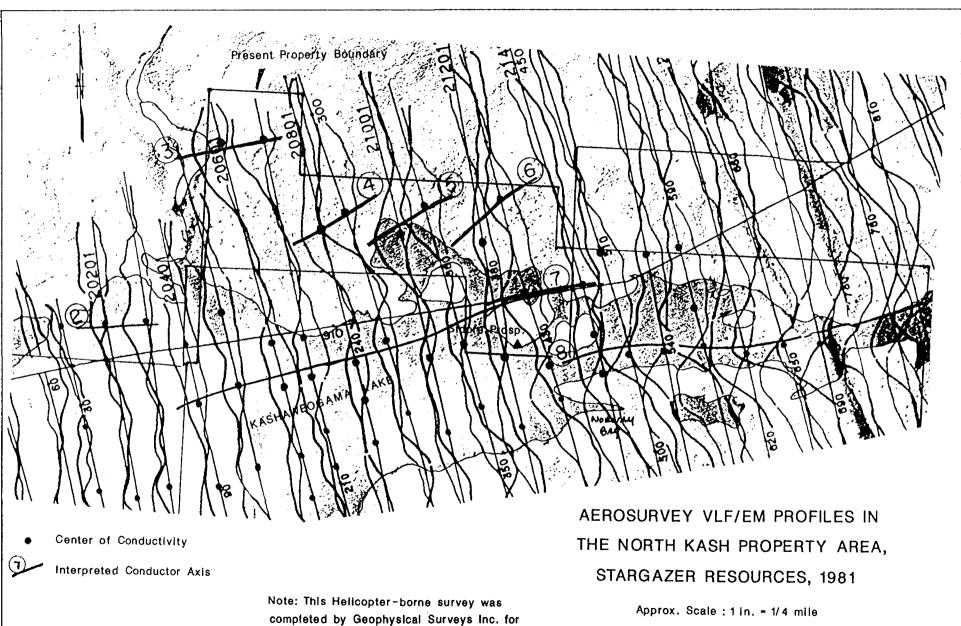
- (1) The Kashaweogama fault zone may contain some graphitic material, and the shear system itself may be conductive.
- (2) The conductive zone following the base line of the Redaurum grid (1988) from 4E to 36E may represent a response partially due to faulting.
- (3) The strongly conductive areas in Norway Bay and Duck Pond may be partially due to topographic effects.
- (3) The strongly conductive zone in the central part of the 1990 grid (NW property area) is irregular. Faulting and/or folding is present in this area, and may enhance conductivity levels.

On Map No. 2 an area of inferred conductivity is shown in the northern part of the property. The basis for this interpretation is shown in Figure 4 to this report, which illustrates part of the VLF-EM aerosurvey completed by Stargazer Resources in 1981. Conductors numbered 3, 4, 5 and 6 on this plan had not been investigated prior to late 1989, when confirmed by test VLF-EM lines by R.G. Ramsay. During 1990 a more extensive survey was completed over part of this area showing the true trace of conductors 3 and 4, and it appears that this conductive horizon extends further to the east in similarly folded configuration.

Map No.3 illustrates the areas of the south property area which were geochemically surveyed by Redaurum in 1987. P. Fernberg, who carried out this work, suggested that in the area south of Duck Pond, at least, the soils appeared to have been transported. This is consistent with the writer's experience in the region, wherein late glacial pulses do appear to have moved mineralized rubble and anomalous soils short distances to the south of source.

The main feature emphasized by this geochemical surveying is the very widespread distribution of geochemically anomalous values in Au, Cu, Pb and Zn throughout the south property area. Later work, primarily consisting of rock geochemical sampling within this area and to the northwest, corroborates this unusual situation.

In summary then, the Kash property straddles the north rim of the Kashaweogama sub-basin in an area structurally dominated by the major Fisher Lake syncline and the Kashaweogama thrust fault system. Interbedded mafic volcanics and variegated metasediments underlie the area. These rocks appear to have originated in a shallow marine environment reflecting alternating periods of volcanism and sedimentation. Subsequent geosynclinal



Stargazer Resources In 1981.

G.M. HOGG & ASSOCIATES LTD

FIGURE 4

collapse, during which the Kashaweogama fault zone was apparently a major locus of adjustment, produced a highly complex structural regime in the basin rim area. It should be emphasized that structural conditions within the Kash property area itself are particularly complex, and are not fully understood at this time.

ECONOMIC GEOLOGY:

Pyritic siliceous units occur within the metasedimentary horizons of the basin rim area and the dominantly volcanic terrain to the north. These can be tuffaceous, and may vary from an inch to over 100 feet in thickness. Such rocks are considered to represent a sulphide facies of the oxide iron formation which strongly developed in the basin interior, and as has been noted, it is believed that many of the conductors illustrated on Map No. 2 are a response to the presence of this type of sulphide mineralization within the metasediments.

The sulphide iron formation appears variably polymetallic, however, containing some gold, silver, chalcopyrite, galena, sphalerite and/or arsenopyrite in addition to the dominant pyritic mineralization. Unfortunately, because of limitations in outcrop exposure and the complete lack of drilling, field observations have been restricted to peripheral areas of conductive zones thus far. Nonetheless, it is thought that the following examples will illustrate to some degree the general character of these sediment-associated mineralized zones (see sampling locations on Map No.1).

(1) <u>Stringer Zone</u>: An area marginal to a strong conductor contains highly sheared siliceous sediments and mafic volcanics. It exhibits strong quartz veining sometimes containing considerable pyrite and chalcopyrite. Plates 1 and 2 are from this area, showing crenulated quartz veining and fuchsite development. Values of 650 ppb Au and 719 ppm Cu have been reported in grab samples from this area. Pb and Zn values are low in this location.

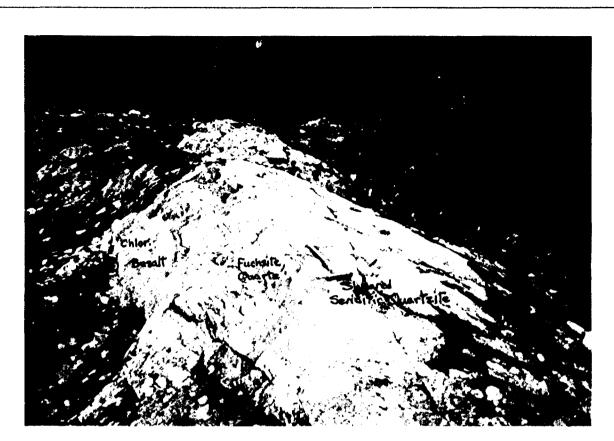


PLATE 1: Sheared quartzite, basalt, with quartz-fuchsite zone. About 8W, 8+50N on 1990 Grid, Kashaweogama Property.

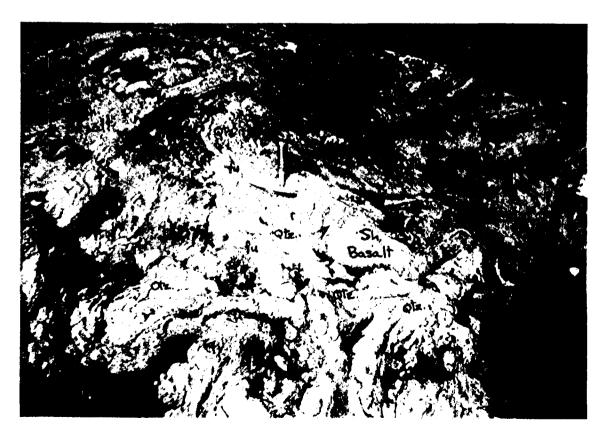


PLATE 2: Crenulated quartz veining and fuchsite in sheared basalt. About 7W, 8+25N on 1990 Grid, Kashaweogama Property.

- (2) <u>Cliff Zone:</u> This location exhibits a very broad area of pyritic mineralization in sheared and variably siliceous tuffaceous graywacke. There is a folded chert-fuchsite zone in the vicinity, but 1990 trenching was carried out wholly within the mineralized graywacke (trenching is described in detail under section on 1990 exploration operations). Grab samples from the trench reported values in the range of 1.12% Pb, 0.50% Zn and 1.50 oz.Ag/ton. The Cu content is low, and the highest gold value reported was 0.02 oz.Au/ton. NE-trending faulting and a zone of high conductivity lie to the south of the trenched area.
- (3) North Zone: This is located in an area of weak conductivity which shows strong development of quartz veining in sheared mafic volcanics. Mineralized quartz veins contain pyrite, pyrrhotite and chalcopyrite. Maximum values reported in grab samples were 0.05 oz.Au/ton, 0.04 oz. Ag/ton and 0.37% Cu, with trace amounts of Pb and Zn.
- (4) <u>Redaurum Trench Area, 1989</u>: The area around 16E, 7N on the Redaurum grid was trenched during 1989 in an effort to ascertain the cause of strong conductivity in this vicinity (in Duck Pond and in the base line area). A sample from a narrow tuffaceous interbed in folded graywacke returned a high value of 0.04 oz.Au/ton, 0.68% Cu, 2.40% Pb and trace Zn in this area.
- (5) <u>West Redaurum Grid Area</u>: During 1990 a samll exposure of sheared and pyritized tuffaceous material peripheral to a strong conductor at 40W, 12N on the Redaurum grid was sampled. This was analyzed for gold content only, returning 0.05 oz.Au/ton.

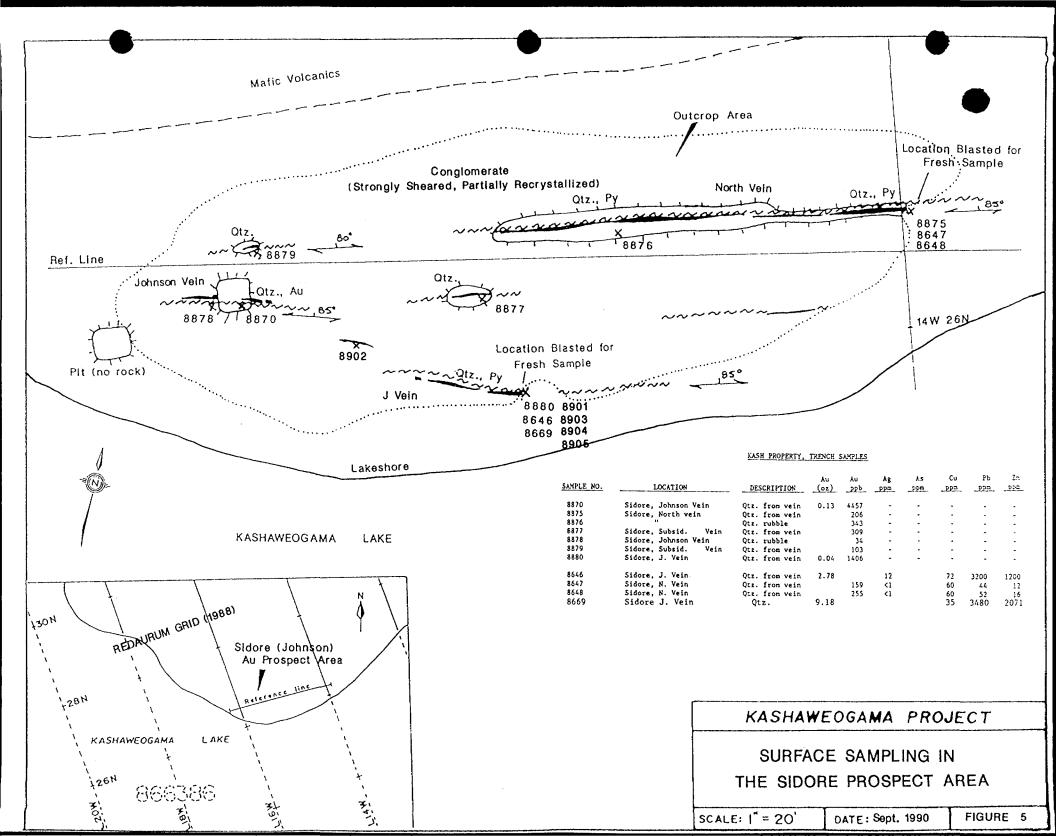
These represent only some of the mineralized locations sampled within the property area which are closely associated with disturbed and generally veined metasediments. It is emphasized that they are peripheral to zones of strong conductivity, and do not lie within them.

The Sidore gold prospect is located at the lakeshore on a small peninsula in the northern part of the property (see Map No. 1). It presents an unique case since mineralization in this instance is restricted to quartz veins within unmineralized granitoid-clast conglomerate. It is possible that this veining may have been derived through the remobilization of silica and metalliferous constituents of a nearby metasedimentary source, and a weak conductor extending west from the prospect area may define such an horizon (see Map No. 2).

The prospect consists of a series of pyrite-bearing white quartz veins in an exposure of conglomerate. The veining varies from a few inches to 2 feet in width, and is controlled by near vertical, easterly striking shearing. The prospect area is illustrated in Figure 5 to this report.

The highest value reported from the prospect were in grab samples taken from the "J Vein" at the lakeshore. One of these reported 9.18 oz.Au/ton, 0.004 % Cu, 0.35% Pb and 0.21% Zn. Mineralization in this instance included very fine native gold with granular disseminations of sulphides (including galena, sphalerite, pyrite and arsenopyrite) along fractures in the quartz. Where observed the J Vein is about one foot in width, and mineralization is restricted to the vein and vein walls.

In summary the Kash property area appears to contain widespread occurrences of auriferous sulphide mineralization within structurally disturbed metasedimentary units. No relevant strongly conductive zones, which may well indicate the presence of higher concentrations of mineralization, have yet been evaluated although several have been geophysically defined. It further appears that in cases of extreme deformation some remobilization of the contained silica and mineralization may result, and this could be the situation in the Sidore prospect area. Other areas in which this may occur are located at 0+00, 5N on the 1990 Grid, and along the base line from 8E to 36E on the Redaurum Grid (see Maps No. 1 and 2).



EXPLORATION PROGRAM, 1990

GENERAL STATEMENT:

During early 1990 an application for a Prospecting Assistance grant was submitted to the Ontario government proposing an exploratory program on the property at a cost of approximately \$ 10,000. It was approved, and R.G. Ramsay carried out this program between June and October, 1990. A total of 46 days were spent in the field, hiring local labour from Savant Lake for assistance in linecutting and trenching operations.

The field work included general prospecting and sampling in the property area, linecutting, VLF-EM surveying, dip needle surveying and trenching. Efforts were concentrated in the northwestern part of the property which had previously been examined only on a reconnaissance basis. These operations are described in the following sections.

LINECUTTING:

The 1990 Grid was completed during June, consisting of a 2,800 foot base line (Az. 95°) and 19,350 feet of cross line at intervals of 200 and 400 feet (see Map No. 1). This grid was used for subsequent VLF-EM surveying and mapping purposes.

Later in the season a series of lines at 100 foot spacing were added in the northern part of the 1990 Grid area to allow a more detailed dip needle survey in what is termed the North Zone area. This involved and additional 5,000 feet of linecutting as illustrated on Map No. 7.

VLF-EM SURVEY:

This survey was carried out over the 1990 Grid area using a Ronka EM-16 unit at 100 foot station intervals. The signal of Station NAA at Cutler, Maine, was used, transmitting at a frequency of 24.0 kHz. The in phase and out of phase readings over the grid area are shown on accompanying Map No. 5. This data was later filtered resulting in the VLF-EM contour plan shown on Map No. 6.

In reference to Map No. 6, a strong conductor was defined extending across the western grid area in an easterly direction. This swings to the south at Line 0+00, and continues toward the east at lower strength and in multiple configuration. Weaker zones of conductivity are indicated to the north, one of these extending into the vicinity of the North Zone prospect.

VLF-EM contours developed from the Redaurum survey of 1988 have been added to Map No. 6 showing areas of strong conductivity lying south of the Cliff Zone, and to the north of the Sidore prospect. In the case of the Cliff Zone area, it is probable that the peripheral effect of this strong conductor has masked the weaker response one might expect from the widespread disseminated mineralization noted in this location. In respect to the conductor north of the Sidore prospect it is assumed that it represents the continuation of the conductive horizon defined in the central part of the 1990 Grid.

Also indicated by the Redaurum survey is a zone of low to moderate conductivity extending under the lake from the Cliff Zone area to the Sidore peninsula. Considering the fact that mineral prospects occur at each end of it, though they are quite different in character, this locus constitutes an attractive exploration target.

DIP NEEDLE SURVEY:

The North Zone area has been trenched in the past and considerable quartz veining was exposed, some containing heavy sulphide mineralization including pyrrhotite. Since only marginal conductivity was detected in the area, a dip needle survey was carried out during 1990 in an effort to trace the mineralized vein system. 208 stations were read at 25 foot intervals on lines spaced at 100 feet over the area.

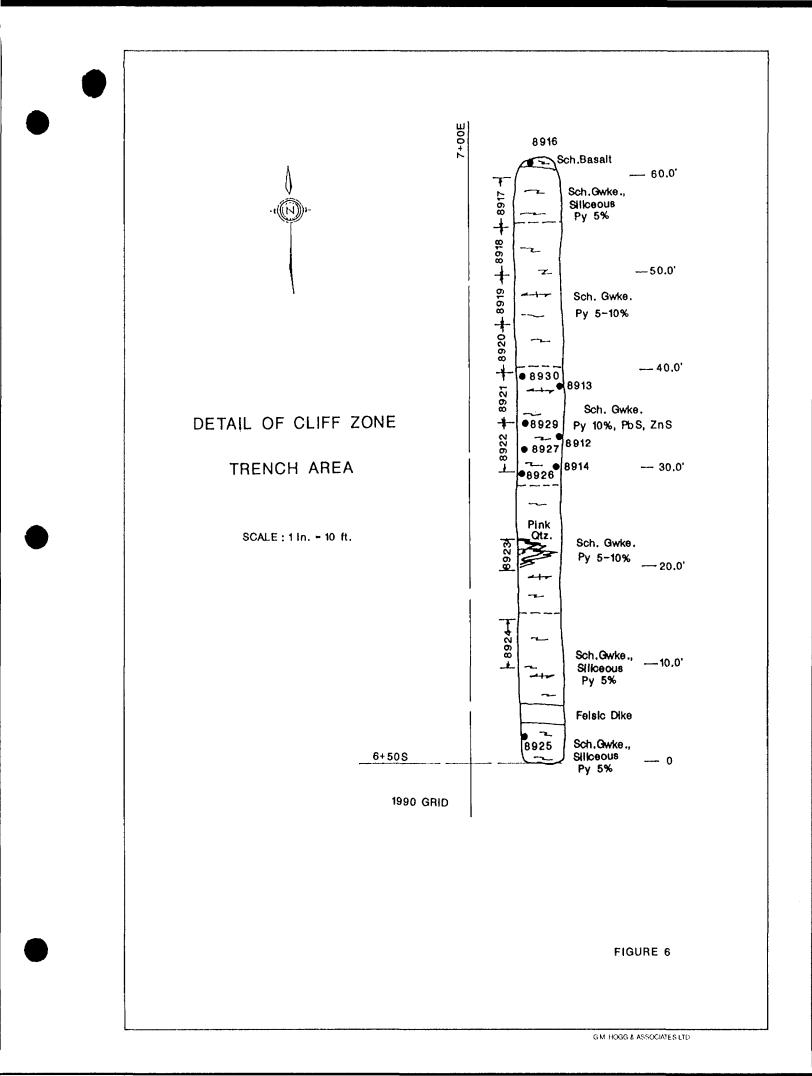
The results of this survey are shown on Map No. 7, indicating a zone of elevated magnetics to extend through the area in an easterly direction. As this zone is sizeable it is probably a formational response. Beyond this, however, interpretive considerations on the survey results are thought speculative.

TRENCHING:

A trench 62.0 feet in length was blasted in the Cliff Zone area of the 1990 Grid (7E, 6+50S). This effort was prompted by the widespread occurrence of disseminated pyrite mineralization in outcrops of highly sheared metasediments in this general area.

The trench plan is shown in Figure 6, and the assay values from the various sample locations noted are listed in Appendix I to this report. The entire trenched area was found to be strongly anomalous in lead, zinc and silver, and moderately anomalous in copper content. Gold is only marginally anomalous, but one well mineralized sample returned a value of 0.022 oz.Au/ton.

The trench exposure showed the area to be underlain by sheared, variably siliceous graywacke containing from 5 to 10 percent disseminated pyrite. Some pink quartz veining was noted, apparently controlled by drag folding,



and some fine grained felsic dike material is present in the southern part of the trench. A heavily mineralized section of the trench about 10 feet in width, containing approximately 15 percent sulphides as disseminations and along shear planes, occurs in the central part. The maximum values reported in samples from this location were 1.12% Pb, 0.61% Zn, 0.03% Cu, 1.46 oz.Ag/ton and, as previously noted, 0.022 oz.Au/ton.

Some additional blasting was done in the Sidore prospect area (see Figure 5), amounting to the expansion of previously trenched areas. The maximum gold value obtained in this new sampling was 0.28 oz.Au/ton.

GEOLOGY, AREAL SAMPLING:

Using grid lines for location outcrops and old trench areas were mapped, and a number of rock geochemical samples taken during 1990. The resulting geological compilation plan of the north property area showing sample locations in this part of the property is included herein as Map No. 4. A few additional sampling locations in the south shore area are indicated on Map No. 1. Analytical results for the various samples taken during 1990 and late 1989 are tabulated in Appendix I to this report. As noted in this appendix a total of 46 rock samples and 13 soil samples were taken in the property area during 1990.

In reference to Map No. 4 the Stringer Zone area (approx. 8W, 7N on the 1990 Grid) warrants comment. As has been described, very highly sheared mafic volcanics and sericitic siliceous sediments occur in outcrop in this area, and quartz veining and fuchsite zones are strongly developed. In the Stringer Zone location itself quartz veining contains pyritic concentrations with lesser chalcopyrite as fracture fillings up to an inch or so in thickness. As noted, samples of this material have returned values as high as 0.72% Cu and 0.02 oz.Au/ton. This highly sheared and mineralized

area lies at the southern margin of a strong conductor of unknown source. North of this conductor schistose mafic volcanics have also returned geochemically anomalous values.

About 200 feet south of the Stringer Zone an outcrop area of sheared and fractured mafic volcanics occurs. Low pyrite mineralization occurs throughout the exposure, mainly as fracture fillings, and the area proved geochemically anomalous particularly in copper content. Interestingly, the shearing exhibited in this vicinity strikes in an easterly direction toward a conductive area which appears to trace a substantial fold structure in mineralized metasediments.

In the Cliff Zone area (approx. 7E, 6S on the 1990 Grid) note has already been made of the widespread mineralization and anomalous metal values in sheared metasediments. This area is highly folded, and the prospect area appears to be situated near the apex of a sizeable fold structure. About 100 feet northeast of the trench area a dragfolded chert-fuchsite zone about 2 feet in thickness occurs.

South of the trenched area a northeasterly striking fault zone is believed to occur, this marked by a cliff extending along the lakeshore. As previously mentioned, a strong conductor of unknown character has been outlined in this vicinity.

Shoreline mapping to the east showed the southern part of the Sidore peninsula and the nearby islands to be underlain by variably sheared conglomerate and clastic sediments, while the northern part of the peninsula and the north shore of Kashaweogama Lake are underlain by amphibolitic mafic volcanics. A strong conductor follows this contact trace in an easterly direction (Redaurum VLF-EM Survey, 1988), but lies entirely within the volcanic sequence. This is considered an extension of the conductor

defined in the vicinity of the Stringer Zone to the west (see Map No. 1). The sampling of angular mafic volcanic float in the Sidore peninsula area showed anomalous values particularly in copper, but essentially the nature of this conductor remains unknown.

The Sidore gold prospect itself has been previously described, and as noted, the existence of a much wider area of auriferous veining extending to the south and west is a distinct possibility.

It will also be noted that some soil sampling was carried out in the course of the program, this centered in the Stringer and North Zone areas. Deeper sampling indicated the presence of a lower clay horizon in the soil section, however, and this likely limits the effectiveness of the method in the northern property area.

CONCLUSIONS

The Kash property has been demonstrated widely anomalous in gold and other metals, This pervasive distribution of metals is unusual, and represents either syngenetic accumulation of such constituents within sedimentary formations, or their introduction on a broad epigenetic scale. The former mode of origin is thought the most likely.

The property area is structurally very complex, and from either genetic viewpoint this offers many possibilities for the concentration of metalliferous mineralization. Unfortunately, physical observation and sampling have been limited to locations peripheral to areas of potential concentration. However, the results indicate that the case for concentration is both viable and probable.

At least six excellent exploration targets have been defined within the property area. Approached on a minimum effort basis, a very good idea of the potential of these targets could be obtained by a 3,000 foot drilling program at a cost of approximately \$ 90,000. Winter months would offer the best period for drilling flexibility in this case. A more thorough evaluation of the area is recommended however.

Governmental funding has made the primary exploration of the obviously important northwest property area possible during 1990. The effectiveness of this assistance program has thus been well demonstrated in the view of the writer.

Respectfully Submitted,

G.M. Hogg, P. Ing. * ENGINEER 2551 CLINCE OF ONTARIO

APPENDIX I

Analyses of Rock and Soil Samples, Kash Property, Oct. 1989 - Oct. 1990.

APPENDIX I

KASH PROPERTY, ROCK & SOIL SAMPLES, OCT. 1989 - OCT. 1990

SAMPLE NO.	GRID LOCATION	Au PPB	Ag PPM	Cu PPM	рь ррм	Zn PPM	DESCRIPTION	Į
8659	6+50W 5+00N (1990 Grid)	20	-	126	11	20	Sh. mafic volc., minor qtz., low Py	ļ
8660	11	23	-	172	45	115	As 8659, same general widely sheared area	
8662	"	18	-	116	41	104	As 8659, same general widely sheared area	1
8663	11	16	-	128	39	92	Sh. mafic rock, Py on shear planes	
8664	H	12	-	208	45	114	As 8663, from same general area]
8665	11	19	-	114	38	101	As 8663, from same general area	
8666	6+80W 8+00N (1990 Grid)	25	-	37	6	7	Sheared qtzite, minor chlor., Py, fuchsite ?	
8667	7+00W 8+30N (1990 Grid)	299	-	719	53	71	Stringer Zone, qtz., chlor., Py, low Cpy]
8668	6+60E 6+00S (1990 Grid)	32	-	42	52	150	Sh. gwke., dissem. Py to 5%. Cliff zone area	
8669	15+50W 26+00N (Redaurum Grid)	9.18 oz.Au	/ton -	35	3480	2071	Qtz., Au, PbS, ZnS. J Vein, Sidore Prospect]
			1	1				1 -
8882	7+00W 8+30N (1990 Grid)	650		359	82	76	Qtz., sh. mafic volc., Py, Cpy. Stringer Zone	86
8884	8+00W 8+50N (1990 Grid)	21		92	30	43	Sericite schist. Old tr., Stringer Zone area	1 30
8885	4+00W 11+50N (1990 Grid)	67		218	66	75	Sh. mafic rock, low sulph. North of conductor	1
8886	4+00W 8+00N (1990 Grid)	61		230	65	72	Sh mafic volc., low Py. South of conductor	Sampii
8887	6+00E 7+50S (1990 Grid)	15		50	820	379	Sh. gwke, Py PbS, ZnS. Cliff zone area	1 2
8888	6+00E 6+00S (1990 Grid)	22		16	66	19	Sh. gwke, minor fuchsite, Cliff zone area	1 F
8889	7+20E 5+80S (1990 Grid)	19		18	27	10	Pink gtz. vein. Cliff zone area	1 ដ
						1	· · · · · · · · · · · · · · · · · · ·	1 ซี
8890	10+00W 31+00N (Redaurum Grid)	14	i -	74	30	32	Mafic volc, tr.Py. Ang. float, N. Sidore prosp.	1 👔
8891	11+00W 29+00N (Redaurum Grid)	23	-	284	57	38	Mafic volc. tr.Py. Ang. float, N. Sidore prosp.	11
			+		• ······			- ·
8901	15+50W 26+00N (Redaurum Grid)	34	0.6	580	125	235	Gray schist, low sulph. Sidore J vein wallrock	T
<u>8901</u> 8902	15+50W 26+00N (Redaurum Grid) 15+70W 26+10N (Redaurum Grid)	34	0.6	580 52		235	Gray schist, low sulph. Sidore J vein wallrock Qtz., low Pv. W. ext. of Sidore J vein	ļ
8902	15+70W 26+10N (Redaurum Grid)	34 3771 549	0.6 2.9 <0.1		125 622			ļ
8902 8903	15+70W 26+10N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid)	3771 549	2.9 <0.1	52	622	181	Qtz., low Py. W. ext. of Sidore J vein Qtz., tr. Py. Sidore prospect, J vein area	
8902 8903 8904	15+70W 26+10N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid)	3771 549 34	2.9 <0.1 0.1	52 - -	622	181	Qtz., low Py. W. ext. of Sidore J vein Qtz., tr. Py. Sidore prospect, J vein area Schist & qtz., tr. sulph. Sidore prosp. area	19
8902 8903 8904 8905	15+70W 26+10N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid)	3771 549 34 9600	2.9 <0.1	52	622	181	Qtz., low Py. W. ext. of Sidore J vein Qtz., tr. Py. Sidore prospect, J vein area Schist & qtz., tr. sulph. Sidore prosp. area Qtz., sulphides, J Vein, Sidore prosp.	066
8902 8903 8904 8905 8906	15+70W 26+10N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 40W 12+00N (Redaurum Grid)	3771 549 34 9600 1680	2.9 <0.1 0.1 5.1	52 - - 36 -	622 	181 - 735	Qtz., low Py. W. ext. of Sidore J vein Qtz., tr. Py. Sidore prospect, J vein area Schist & qtz., tr. sulph. Sidore prosp. area Qtz., sulphides, J Vein, Sidore prosp. Sil tuff, 57 Py. S. shore, close to conductor	066
8902 8903 8904 8905 8906 8906 8907	15+70W 26+10N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 40W 12+00N (Redaurum Grid) 38W 13+00N (Redaurum Grid)	3771 549 34 9600 1680 102	2.9 <0.1 0.1 5.1	52 - - - - - - - - - - - - - - - - - - -	622 	181 - 735 - 23	Qtz., low Py. W. ext. of Sidore J vein Qtz., tr. Py. Sidore prospect, J vein area Schist & qtz., tr. sulph. Sidore prosp. area Qtz., sulphides, J Vein, Sidore prosp. Sil tuff, 5% Py. S. shore, close to conductor Sil rock, Py in fract. S. shore near conductor	066
8902 8903 8904 8905 8906 8907 8908	15+70W 26+10N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 40W 12+00N (Redaurum Grid) 38W 13+00N (Redaurum Grid) 34E 6+50N (Redaurum Grid)	3771 549 34 9600 1680 102 34	2.9 <0.1 0.1 5.1	52 - - 36 -	622 	181 - 735	Qtz., low Py. W. ext. of Sidore J vein Qtz., tr. Py. Sidore prospect, J vein area Schist & qtz., tr. sulph. Sidore prosp. area Qtz., sulphides, J Vein, Sidore prosp. Sil tuff, 5% Py. S. shore, close to conductor Sil rock, Py in fract. S. shore near conductor Sh. mafic rock, tr.Py. S.shore, near E boundary	066
8902 8903 8904 8905 8906 8906 8907	15+70W 26+10N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 40W 12+00N (Redaurum Grid) 38W 13+00N (Redaurum Grid)	3771 549 34 9600 1680 102	2.9 <0.1 0.1 5.1	52 - - 36 - - 30 68	622 	181 - - 735 - 23 75	Qtz., low Py. W. ext. of Sidore J vein Qtz., tr. Py. Sidore prospect, J vein area Schist & qtz., tr. sulph. Sidore prosp. area Qtz., sulphides, J Vein, Sidore prosp. Sil tuff, 5% Py. S. shore, close to conductor Sil rock, Py in fract. S. shore near conductor	990 Sampii
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8902 8903 8904 8905 8906 8907 8908 8909 8910 8910 8911 8912	15+70W 26+10N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 40W 12+00N (Redaurum Grid) 38E 13+00N (Redaurum Grid) 38E 10+00N (Redaurum Grid) 758W 9+50N (Redaurum Grid) 39E 0+20S (Redaurum Grid) 7+00E 6+60S (1990 Grid)	3771 549 34 9600 1680 102 34 68 34 <34 754	2.9 <0.1 0.1 - - - - - 25.0	52 	622 	181 - 735 - 23 75 44 - 42 41 5062	Qtz., low Py. W. ext. of Sidore J vein Qtz., tr. Py. Sidore prospect, J vein area Schist & qtz., tr. sulph. Sidore prosp. area Qtz., sulphides, J Vein, Sidore prosp. Sil tuff, 5% Py. S. shore, close to conductor Sil rock, Py in fract. S. shore near conductor Sh. mafic rock, tr.Py. S.shore, near E boundary Sh. arkose, Py. S. shore, near E boundary Mafic tuff, tr. Py. S. shore, west grid area Mafic tuff, qtz., tr.Py. S. shore near anomaly Sh.gwke, Sulph. 10%. Grab, Cliff zone trench	
8902 8903 8904 8905 8906 8906 8908 8909 8910 8911 8912 8913	15+70W 26+10N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 26+00N (Redaurum Grid) 38W 13+00N (Redaurum Grid) 38E 10+00N (Redaurum Grid) 38E 10+00N (Redaurum Grid) 38E 10+00N (Redaurum Grid) 38E 10+00N (Redaurum Grid) 39E 0+20S (Redaurum Grid) 7+00E 6+60S (1990 Grid) 7+00E 6+60S (1990 Grid)	3771 549 34 9600 1680 102 34 68 34 <34 754 34	2.9 <0.1 0.1 - - - - -	52 - - 36 - 30 68 58 - - - - - - - - - - - - - - - - - -	622 	181 - 735 - 23 75 44 42 41 5062 2500	Qtz., low Py. W. ext. of Sidore J vein Qtz., tr. Py. Sidore prospect, J vein area Schist & qtz., tr. sulph. Sidore prosp. area Qtz., sulphides, J Vein, Sidore prosp. Sil tuff, 5% Py. S. shore, close to conductor Sil rock, Py in fract. S. shore near conductor Sh. mafic rock, tr.Py. S. shore, near E boundary Sh. arkose, Py. S. shore, near E boundary Mafic tuff, tr. Py. S. shore, west grid area Mafic tuff, qtz., tr.Py. S. shore near anomaly Sh.gwke, Sulph. 10%. Grab, Cliff zone trench Sh. gwke, Sulph. 5%. Grab, Cliff zone trench	yyu sampii
8902 8903 8904 8905 8906 8907 8908 8909 8910 8911 8912 8913 8914	15+70W 26+10N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 40W 12+00N (Redaurum Grid) 38W 13+00N (Redaurum Grid) 38W 13+00N (Redaurum Grid) 38E 10+00N (Redaurum Grid) 58W 9+50N (Redaurum Grid) 58W 9+50N (Redaurum Grid) 7+00E 6+60S (1990 Grid) 7+00E 6+60S (1990 Grid) 7+00E 6+60S (1990 Grid)	3771 549 34 9600 1080 102 34 68 34 <34 <34 754 34 68	2.9 <0.1 0.1 - - - - - - - - - - - - - - - - - - -	52 - - 36 - - 30 68 58 58 - - 45 120 183 168	622 	181 - 735 - 23 75 44 - 41 5062 2500 1171	Qtz., low Py. W. ext. of Sidore J vein Qtz., tr. Py. Sidore prospect, J vein area Schist & qtz., tr. sulph. Sidore prosp. area Qtz., sulphides, J Vein, Sidore prosp. Sil tuff, 5% Py. S. shore, close to conductor Sil rock, Py in fract. S. shore near conductor Sh. mafic rock, tr.Py. S.shore, near E boundary Sh. arkose, Py. S. shore, near E boundary Mafic tuff, tr. Py. S. shore, west grid area Mafic tuff, qtz., tr.Py. S. shore near anomaly Sh.gwke, Sulph. 10%. Grab, Cliff zone trench Sh. gwke, Sulph. 5%. Grab, Cliff zone trench	yyu sampii
8902 8903 8904 8905 8906 8906 8908 8909 8910 8911 8912 8913	15+70W 26+10N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 15+50W 26+00N (Redaurum Grid) 40W 12+00N (Redaurum Grid) 38E 13+00N (Redaurum Grid) 38E 10+00N (Redaurum Grid) 38E 10+00N (Redaurum Grid) 58W 9+50N (Redaurum Grid) 39E 0+20S (Redaurum Grid) 7+00E 6+60S (1990 Grid) 7+00E 6+60S (1990 Grid)	3771 549 34 9600 1680 102 34 68 34 <34 754 34	2.9 <0.1 0.1 - - - - - 25.0	52 - - 36 - 30 68 58 - - - - - - - - - - - - - - - - - -	622 	181 - 735 - 23 75 44 42 41 5062 2500	Qtz., low Py. W. ext. of Sidore J vein Qtz., tr. Py. Sidore prospect, J vein area Schist & qtz., tr. sulph. Sidore prosp. area Qtz., sulphides, J Vein, Sidore prosp. Sil tuff, 5% Py. S. shore, close to conductor Sil rock, Py in fract. S. shore near conductor Sh. mafic rock, tr.Py. S. shore, near E boundary Sh. arkose, Py. S. shore, near E boundary Mafic tuff, tr. Py. S. shore, west grid area Mafic tuff, qtz., tr.Py. S. shore near anomaly Sh.gwke, Sulph. 10%. Grab, Cliff zone trench Sh. gwke, Sulph. 5%. Grab, Cliff zone trench	yyu sampii

(i)

SAMPLE NO.	GRID LOCATION	Au PPB	Ag PPM	Cu PPM	РЬ РРМ	Zn PPM	DESCRIPTION
8918	7+00E 6+60S (1990 Grid)	<34	<0.1	95	15	29	Min.gwke., Rep.sample 50-55'N, Cliff zone trench
8919	7+00E 6+60S (1990 Grid)	<34	0.1	233	22	17	Min.gwke., Rep.sample 45-50'N, Cliff zone trench
8920	7+00E 6+60S (1990 Grid)	<34	0.2	83	28	88	Min.gwke., Rep.sample 40-45'N, Cliff zone trench
8921	7+00E 6+60S (1990 Grid)	34	0.1	99	29	92	Min.gwke., Rep.sample 35-40'N, Cliff zone trench
8922	7+00E 6+60S (1990 Grid)	<34	0.3	267	72	5429	Min.gwke., Rep.sample 30-35'N, Cliff zone trench
8923	7+00E 6+60S (1990 Grid)	<34	0.2	46	15	586	Sh.gwke., qtz, Rep. sample 20-23'N, Cliff zone tr.
8924	7+00E 6+60S (1990 Grid)	<34	0.2	73	19	135	Min.gwke., Rep.sample 10-15'N. Cliff zone trench
8925	7+00E 6+60S (1990 Grid)	68	0.5	154	39	129	Sil.gwke., min. Grab, S. end of Cliff Zone trench
8926	7+00E 6+60S (1990 Grid)	<34	1.5	186	321	356	Sh. min. gwke. Grab at 30'N in Cliff zone trench
8927	7+00E 6+60S (1990 Grid)	<34	7.2	148	4158	2783	Sh. min. gwke. Grab at 32'N in Cliff zone trench
8928	4+00W 11+00N (1990 Grid)	<34	0.7	115	404	425	Sh. basalt. Grab in vicinity of VLF/EM conductor
8929	7+00E 6+60S (1990 Grid)	102	50.1	193	8688	6062	Sh. min. gwke. Grab at 35'N in Cliff zone trench
8930	7+00E 6+60S (1990 Grid)	343	4.7	75	5745	2784	Sh. min. gwke/ Grab at 40'N in Cliff zone trench
8931	4+00W 18+00N (1990 Grid)	<34	0.5	80	459	289	Qtz., Chlor. Sample from North zone area, old tr.
8932	4+00W 18+00N (1990 Grid)	377	1.2	3686	88	56	Qtz. wi Py, Po, Cpy. Grab from North zone area
8933	4+00W 18+00N (1990 Grid)	1749	0.5	959	53	32	As sample 8932
8934	12+00E 3+40S (1990 Grid)	68	0.1	259	45	36	Qtz., low Py. Grab, old tr. E of Cliff zone
8935	12+00E 3+40S (1990 Grid)	34	<0.1	83	51	114	Sh. gwke, low Py. Grab of vein host rock
8936	2+00W 17+75N (1990 Grid)	80	0.1	265	65	801	Min. amph. basalt, North zone area
8937	4+00W 17+00N (1990 Grid)	311	2.2	1255	23	279	Qtz., Po, Py, Cpy & garnet. North zone area
8938	4+00W 11+00N (1990 Grid)	20	<0.1	110	24	56	Gwke., Po, Py. Angular float in conductor area
8939	7+75W 9+30N (1990 Grid)	25	0.1	81	26	40	As sample 8938
8940	8+00W 10+50N (1990 Grid)	18	0.1	118	23	30	As sample 8938
8941	4+00W 11+00N (1990 Grid)	28	<0.1	119	22	31	As sample 8938
8942	4+00W 11+25N (1990 Grid)	19	0.1	85	22	31	As sample 8938
8943	4+00W 17+75N (1990 Grid)	15	<0.1	879	11	11	White sugary qtz., low Py. North zone area
8944	4+00W 17+75N (1990 Grid)	41	0.8	1311	22 `	12	Qtz., Py Po Cpy. Old tr. dump, North zone area
8945	4+00W 17+75N (1990 Grid)	1625	0.3	889	18	11	As sample 8944
8946	8+00W 8+50N (1990 Grid)	22	<0.1	90	3	4	Sericite schist, Tr. Py. Stringer zone area
Soil	32E 0+00 (Redaurum Grid)	15		23	18	33	Sandy soil, 1-2' depth
Soil	4W 10N (1990 Grid)	19		25	15	16	Sandy soil. 1' depth (Conductor area)
Soil	4W 12N (1990 Grid)	22		24	10	14	Sandy soil. 1' depth
Soil	4W 14N (1990 Grid)	25	1	96	18	23	Sandy soil. 1' depth
Soil	4W 15N (1990 Grid)	14		12	16	17	Sandy soil. 1' depth
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(ii)

SAMPLE NO.	GRID LOCATION	Au PPB	Ag PPM	Cu PPM	ръ ррм	Zn PPM	DESCRIPTION
Soil Soil	4W 17N (1990 Grid) 4W 18N (1990 Grid)	20 16	-	18 102	<u>19</u> 29	29 40	Sandy soil. 1' depth Sandy soil. 1' depth
Soil	4W 19N (1990 Grid)	10	-	10	15	11	Sandy soil. 1' depth
Soil Soil	4W 10N (1990 Grid) 4+50W 10N (1990 Grid)	22	0.1	55	8	12 19	Clay. 51' depth (Conductor Area) Clay. 5' depth (Conductor Area)
Soil Soil	<u>44750W 10N (1990 Grid)</u> <u>4W 10+75N (1990 Grid)</u> <u>4W 10+75N (1990 Grid)</u>	10	<0.1 <0.1	41	8	15	Clay. 5' depth (Conductor Area) Clay. 5' depth (Conductor Area)

NOTE: - During 1990 a total of 46 rock samples and 13 soil samples were taken by R.G. Ramsay (1990 Program).

- All analyses were completed by Assayers Ontario Laboratories of Toronto, Ontario.
- General sample locations are shown on accompanying Maps No. 1 and 4. More detailed sampling in the Sidore and Cliff Zone trench areas are shown in Figures 5 and 6, respectively.

	MINING LANDS: PLEASE COMPLETE ' TO THE GEOSCIENCI	52J07NW0001 2.14299 ARMIT LAKE 900
	DATE REMOVED: JUNE 3/92. (from GDC)	DATE RETURNED:
	REPORT # : 2.14299	
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	REASON FOR REQUESTING REPORT (CO	
1.	INFORMATION ADDED TO EXISTING PA	GES OF REPORT: [] SPECIFY PAGES:
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2.	a) PAGES/MAPS ADDED TO THIS REPO	RT: TOTAL PAGES ADDED
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	b) TYPE OF PGS ADDED:	
		WORK REPORT'S (AMENDED)
		WORK RPTS (NEW)
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		CORRESPONDENCE
		WORK REPORTS
	_	PGS OF TEXT
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	NO INFORMATION DELETED	• 由

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Mining Lands Branch Geoscience Approvals Section 159 Cedar Street, 4th Floor Sudbury, Ontario P3E 6A5

Telephone: (705) 670-7264 Fax: (705) 670-7262

File: 2. 14299

Mr. Bob Owen Ontario Geological Survey 77 Grenville Street Room 812 Toronto, Ontario M7A 1W4

Dear Sir:

Re: Work submitted on mining claims PA. 1091230 et al. in the area of Armit Lake.

As per your request, we are highlighting this file as the work falls under the category of DATA.

For further information, please contact Ted Anderson at (705) 670-7254.

Yours sincerely,

Ron C. Gashinski Provincial Manager, Mining Lands Mines & Minerals Division

MAA/jl



Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines Mining Lands Branch Geoscience Approvals Section 159 Cedar Street, 4th Floor Sudbury, Ontario P3E 6A5

Toll Free: 1-800-465-3880 Telephone: (705) 670-7264 Fax: (705) 670-7262

November 12, 1991

Our File: 2.14299 Your File: W.9130.5006

Mining Recorder Ministry of Northern Development and Mines Court House Building P.O. Box 3000 Sioux Lookout, Ontario POV 2T0

Dear Sir:

SUBJECT: APPROVAL OF ASSESSMENT WORK SUBMITTED ON MINING CLAIMS PA. 1091230 ET AL THE ARMIT LAKE AREA.

The assessment work credits for the Geological Report, under Section 18(9) of the Mining Act Regulations, submitted on the above work report have been approved as of November 12, 1991.

Please indicate this approval on your records.

Yours sincerely,

m COO

Ron Gashinski Senior Manager, Mining Lands Branch Mines and Minerals Division

TAA/jl Enclosures: cc: Assessment Files Office Toronto, Ontario

Resident Geologist Sioux Lookout, Ontario

Ministry of Northern Develo	mani *	rt of Work Conducted Recording Cialm	19130 - 500	
Ontario		Mining Act		3
Personal information collected his collection should be direc sudbury, Ontario, P3E 6A5, to	on this form is obtained un ded to the Provincial Manu slephone (705) 670-7264.	der the authority of the Mining Act. This in ager, Mining Lands, Ministry of Northern	formation will be us Development and	ed for correspondence. Questions about Mines, Forth 2019 geger Stree
Record	o the Mining Act and ler.	Regulations for requirements of	-	ent work or consult the Mining
- Technik	cal reports and maps	n must be completed for each W must accompany this form in du s the work is assigned to, must	uplicate.	s form.
Recorded Holder(s) RAY M	ONal G.	RAINSAY RRIE ONT. LU Township/Area ARMITLAKE		Client No. 185660
Address 10 C Ø	OK ST. BA	RRIE ONT. LU	IN HE9	705-726-8722
Wining Division PAT	RiciA	ARM IT LAKE	AREA	M or G Plan No. G 1933
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Work Group	 	Турө		
Geotechnical Survey				
Physical Work, Including Drilling				
Rehabilitation				
Other Authorized Work	CONSYLT	NG. GEOLOGIST	REPOR	7
Assays				
Assignment from Reserve				
otal Assessment Work	Claimed on the Attac	ched Statement of Costs \$ _	1500	
		ent work credit all or part of the imed in the statement of costs w		
Persons and Survey C	ompany Who Perfor	med the Work (Give Name and	Address of Au	thor of Report)
Nam	10	1	Address	

Itallio	7001966
G.M. HOGG. + ASSOCIATES	LTO 28 THOMPSON AVE
	TORONITO ONIT. M82 373

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work	Date	Recorded Holder or Agent (Signature)
report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	AUG4571/91	R.S. Ramsar
		0

Certification of Work Report

I certify that I have a persits completion and annexe		in this Work report, having performed	the work or witnessed same during and/or after
lame and Address of Person			
RAY	MOND G. R	AMSAY	
elepone No.	Date	Certified By (Signature	NOISIAID DELLE
705-726-8	B722 AUGUSTI	1996 Raymon	B RAVIDIEN VO
or Office Use Only			WINING BECOBDEB
Total Value Cr. Recorded	AUG. 12/91	Mining Resource May 180	Received Stamp
\$ 1500	Deemed Approval Date Nov. 12/91	Date Approved	
,	Date Notice for Amendments Sent		AUG 1 2 1991
n y y → R (R €)			Receipt

Work, Report Number for Applying Recorve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date	e from	interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect rmed on patented or leased land, please complete the following:	
	PA. 1091230		# 188.	\$ 188.			report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from ze the deletion of credits. Please mark (\prime) one of the following: tck starting with the claim listed last, working backwards. Ack equally over all claims contained in this report of work. As priorized on the attached appendix. Specified your choice of priority, option one will be implemented.	c. with	
	P9.		\$ 128.	£ 188,			please	nts, et	
<u></u>	(091231 PA.		A	8			tions,	eme	
<u></u>	1091232 PA.		182,	188.			h dele		
	1091233 PA.		\$ 14.8.	188.			of suc	reements, memorandum complete the following:	
	1091234 PA.	1	187.	187.			effects illowing rk.	nemora e folic	2
	1091235 PA	1	187.	187.			verse the fo twards of wo of wo	ents, r lete th	
<u> </u>	1091236 PA.	1	<u> </u>	\$ 187.			nimize the adverse e (κ / J) one of the foll working backwards. In this report of wor indix.	greem. comp	
	1091237	1	187.	187.			to minimize the adverse effects o a mark (~) one of the following: last, working backwards. ined in this report of work. appendix. option one will be implemented	tion aç Diease	
							order to mi Please mau listed last, contained ached appe iority, optic	d transfers, option ag leased land, please	
			· · · · · · · · · · · · · · · · · · ·				 k. In order t dits. Please laim listed aims contai attached attached 	tranafo	1200
							ut back. In of credits. I the claims on the atta hoice of pr	orded d or le	: ; ;
							report may be cut bac te the deletion of cre- ack starting with the c ack equality over all cl ack as priorized on th specified your choice	interest are unrecorde	
							n this report may be co priorize the deletion o cut back starting with cut back agually over cut back as priorized e not specified your c	et are on pi	
							in this rep o priorize t a cut back a cut back o cut back	t beneficial i ig claims. been perfo	
							re claiming in this report may be cut back. In order to mir you wish to priorize the deletion of credits. Please mar is are to be cut back starting with the claim listed last, is are to be cut back equally over all claims contained is are to be cut back as priorized on the attached appe that you have not specified your choice of priority, optic	of ben ling ci	
							are clair is you w dits are dits are dits are	Examples of beneficial to the mining claims. It work has been perfe	:: <5
	\$		A 1500.	# 1500.		· · · · · · · · · · · · · · · · · · ·	Credits you are claiming in this which claims you wish to priori 1.		
1	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve	The second se	Note 1:	1



Ministry of Northern Development and Mines

3 . tère du Développement du Nord et de lines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Lol sur les mines

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

1. Direct Costs/Coûts directs

Туре	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees	Type CONISULTANT	0	
Droits de l'entrepreneur et de l'expert-	GEOLOGIST FEE	1500	4
· ·····	Туре	•	1,500
Supplies Used Fournitures utilisées			
	Туре		
Equipment Rental Location de matérie!	···		
	1500.		

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Filing Discounts

- 1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

Certification Verifying Statement of Costs

I hereby certify:

that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

to make this certification

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute quesiton sur la collece de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

Transaction No./Nº de transaction

V 9130 - 5006

2. Indirect Costs/Coûts Indirects

- ** Note: When claiming Rehabilitation work Indirect costs are not
 - allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Туре	Descrip	tion	Amount Montant	Totals Total global
Transportation Transport	Туре			
			-	
				1
Food and Lodging Nourriture et hébergement				
Mobilization and Demobilization Mobilisation et démobilisation				
	Sub To Total partiel	tal of Indir des coûts		
Amount Allowable Montant admissible	• •	00 84 das s	Ante directe	
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)		Valeur totale du crédit d d'évaluation (Total des coûts directs et indirects admissibles		1500.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Remises pour dépôt

- 1. Les travaux déposés dans les deux ane suivan terrent sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- 2. Les travaux déposés trois, quaire ou Ginq ans après leur achèvement sont remboursés à 50 % de Ga valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci déspous.

Valeur totale du crédit d'évaluation S > O Evaluation	n totale demandée
× 49,50 ₽	
	J

Attestation de l'état des coûts

J'atteste par la présente :

que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

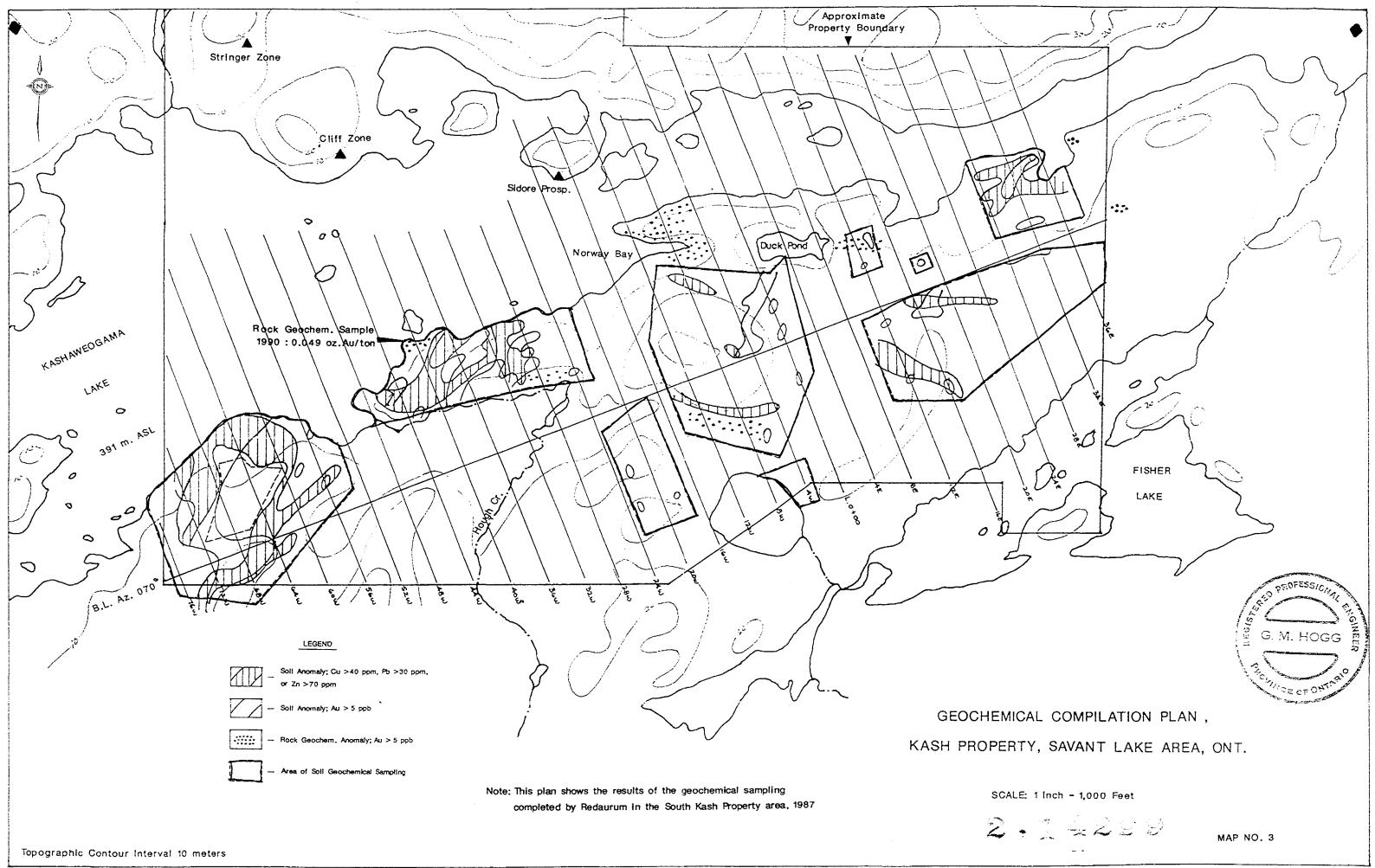
Et qu'à titre de _____je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compegnie)

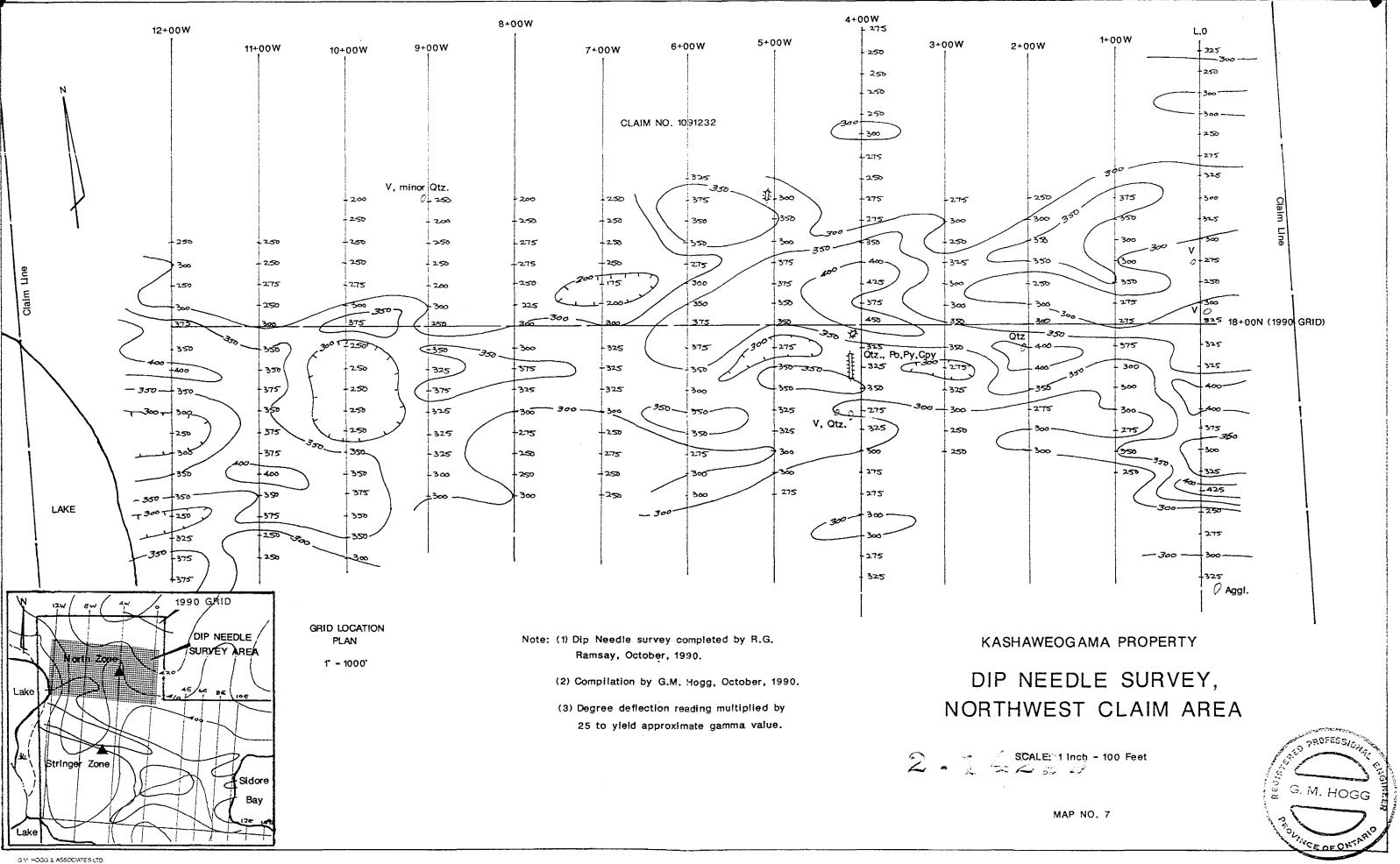
à faire cette attestation.

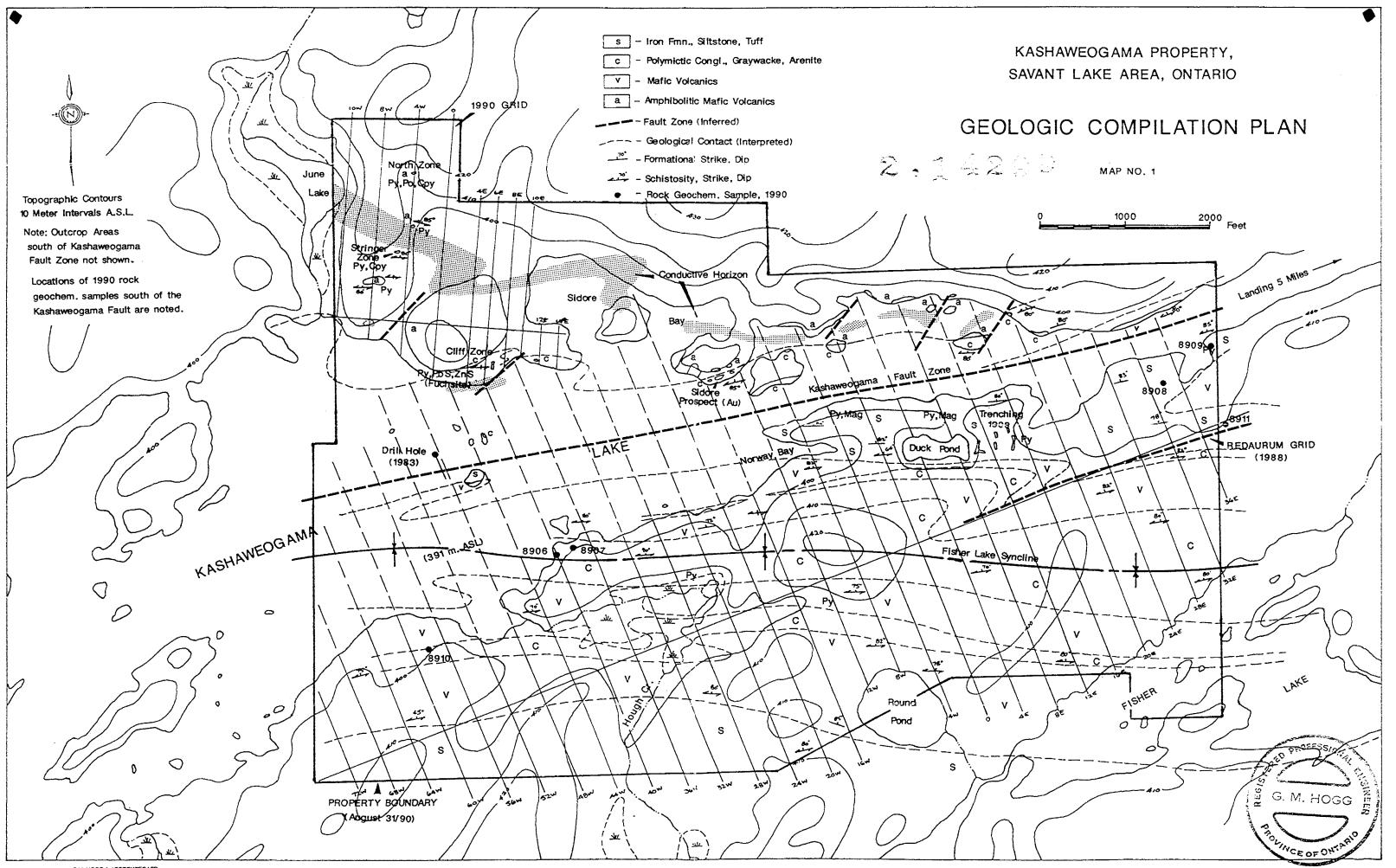
Signature Date Raymond & Ramsay august 1 1981

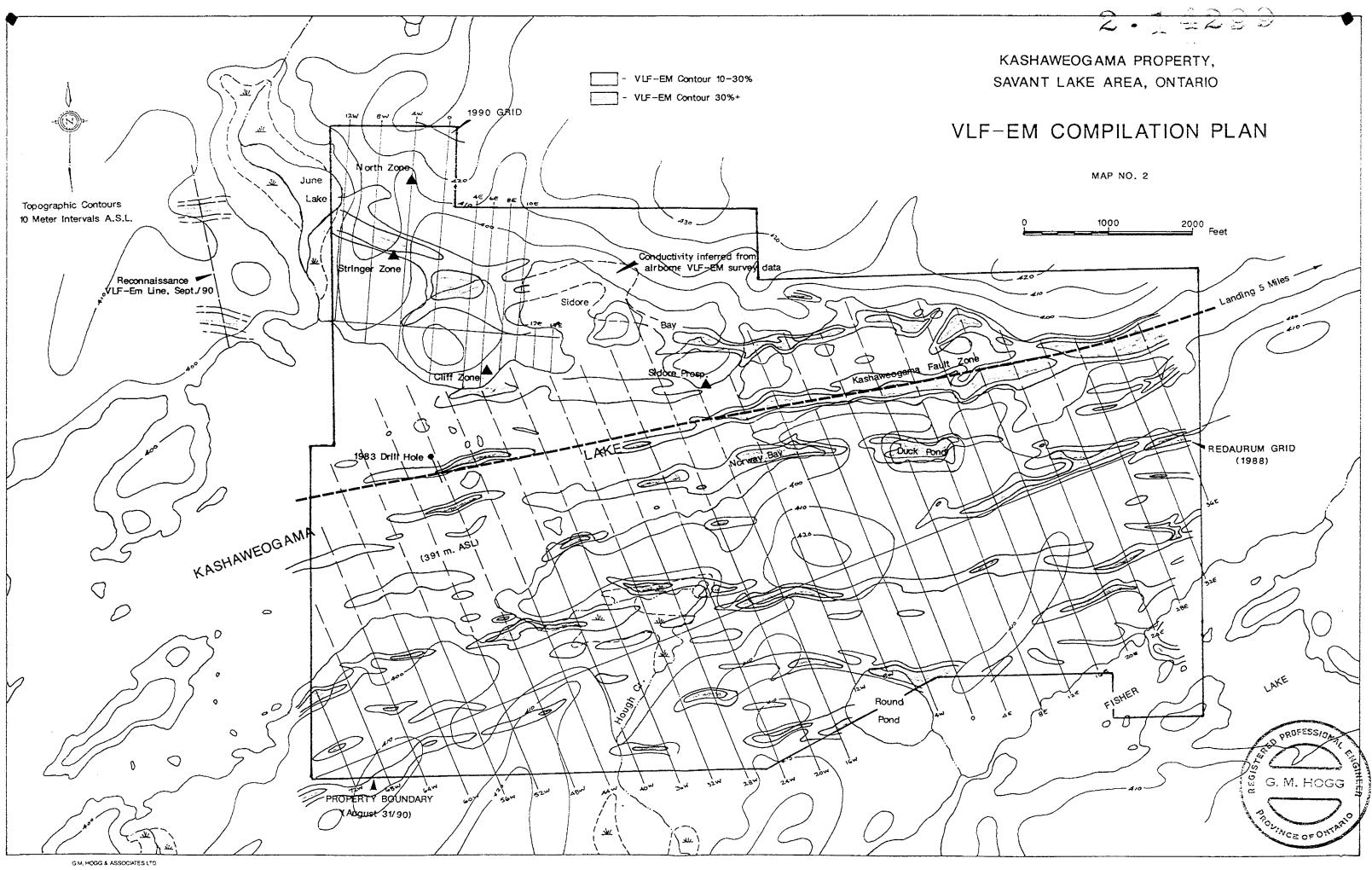
Note : Dans cette formule, lorsqu'il désigne des personnes, se masculin est utilisé au sens neutre.

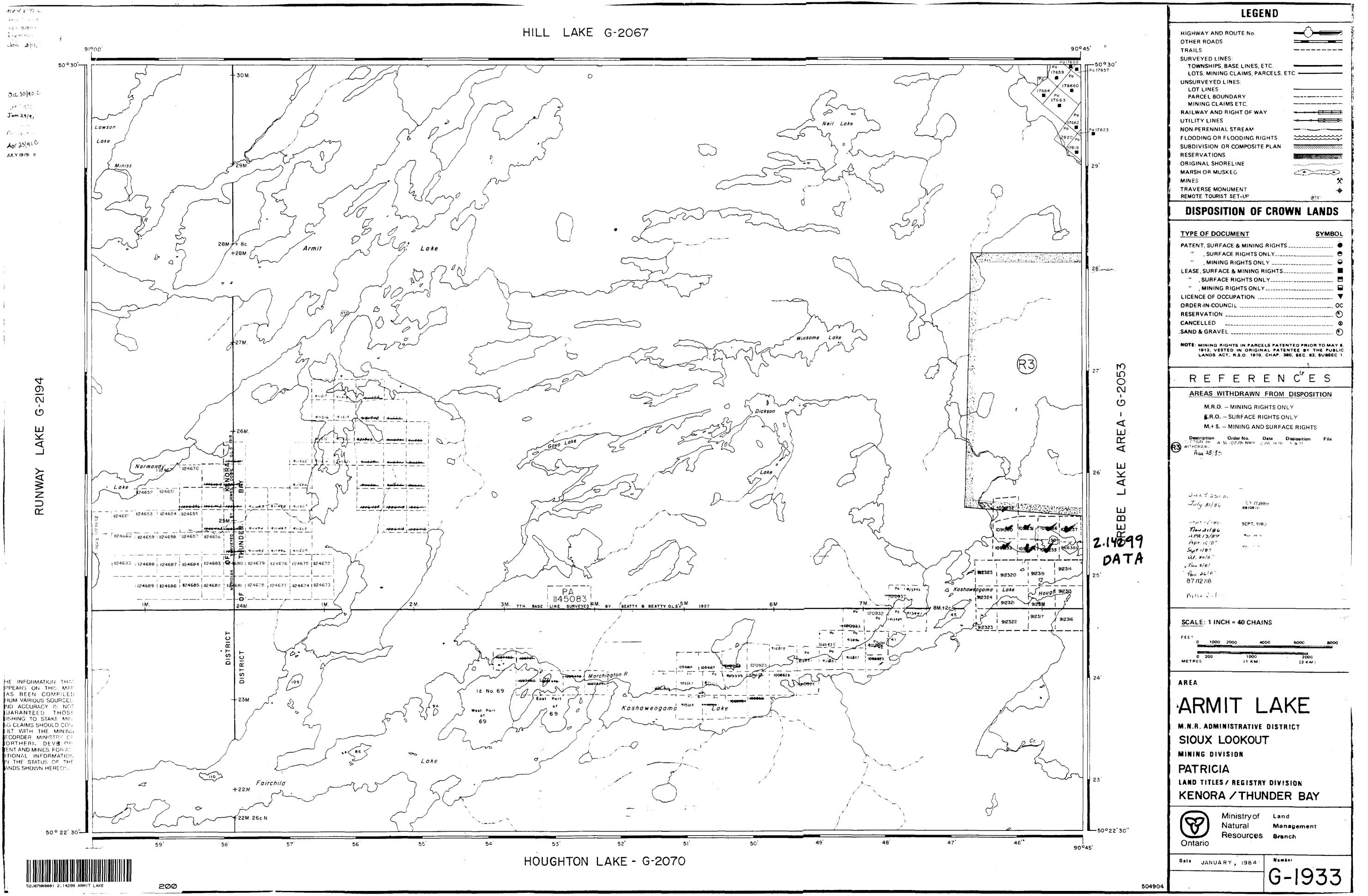
0212 (04/91)

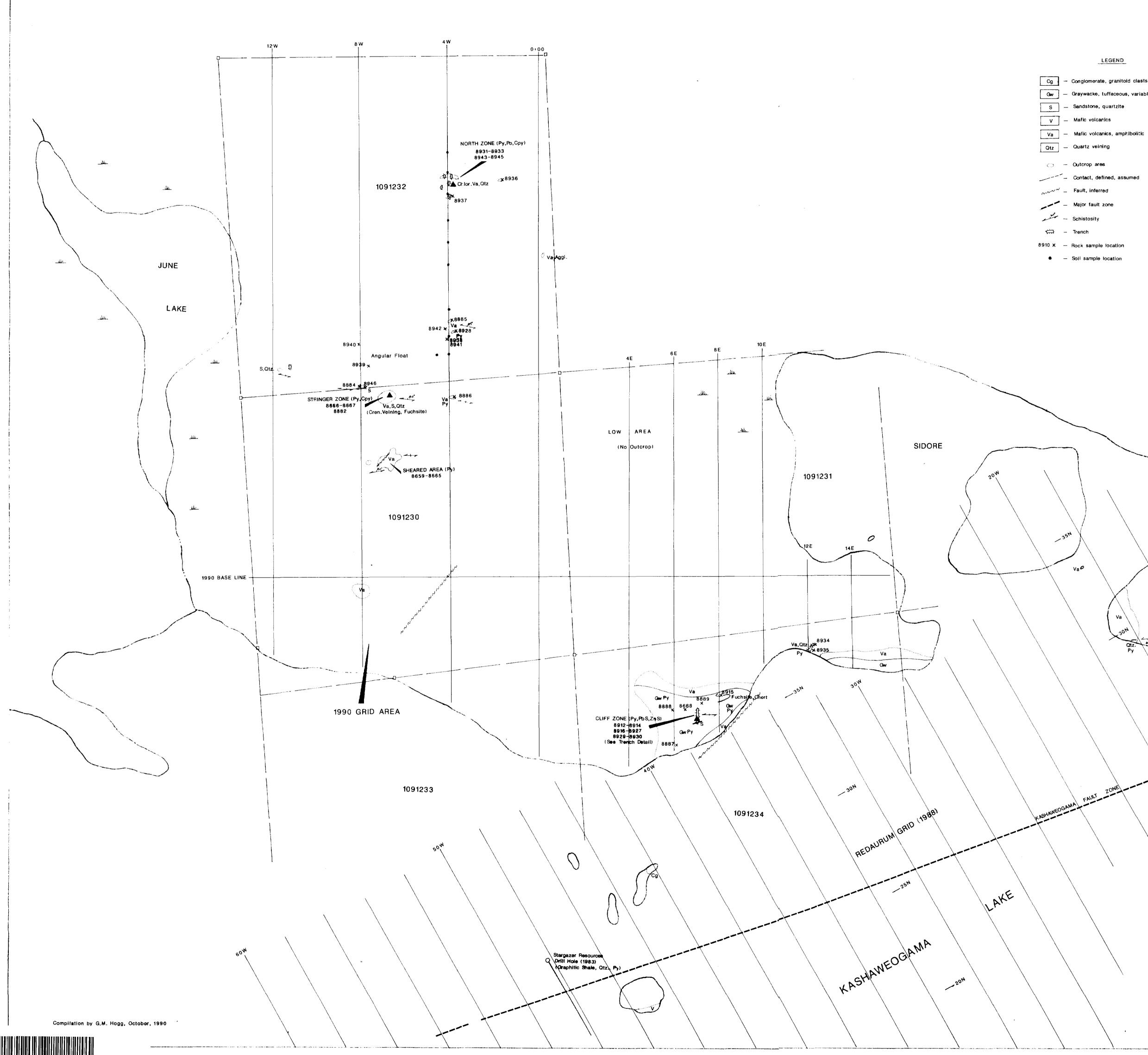












210

LEGEND

Cg - Conglomerate, granitoid clasts common

Ow - Graywacke, tuffaceous, variably siliceous

------ Contact, defined, assumed

Soil sample location

BAY

🛛 🖓 8890

¥ 8891

Angular Float



KASHAWEOGAMA PROPERTY, SAVANT LAKE AREA, ONTARIO

SAMPLE LOCATION AND GEOLOGY PLAN, NORTHWEST PROPERTY AREA

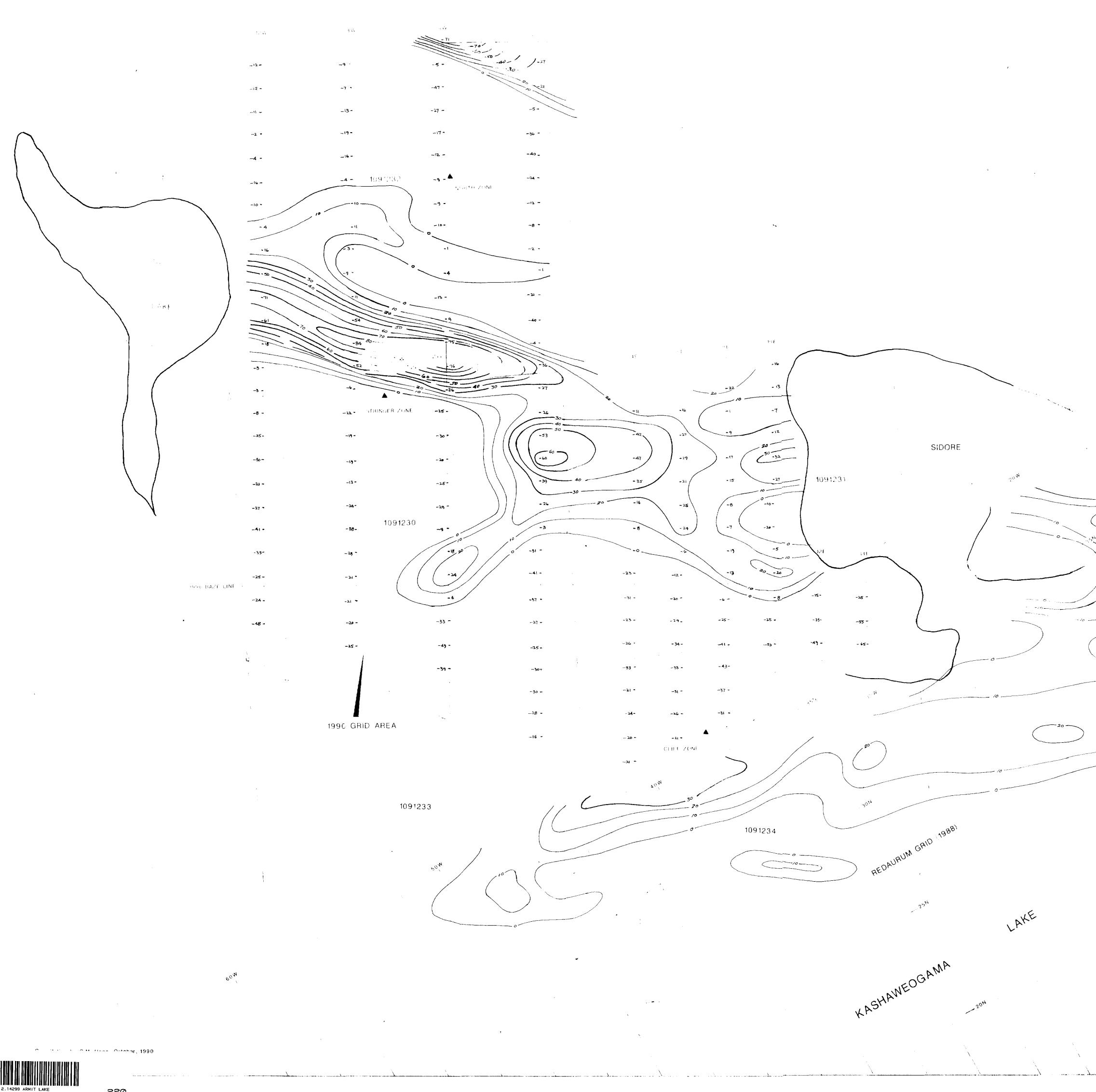
الميالي مسمحت ويهمها الدرامين مواري المتصليمهم مهدما فالمحافظ ال

SCALE : 1 INCH - 200 FT.

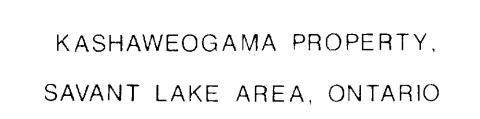
-WAY BAY

G. M. HOGG

2-1-2200



220



- 30

VLF-EM CONTOUR PLAN, NORTHWEST PROPERTY AREA

SCALE 1 INCH 200 FT.

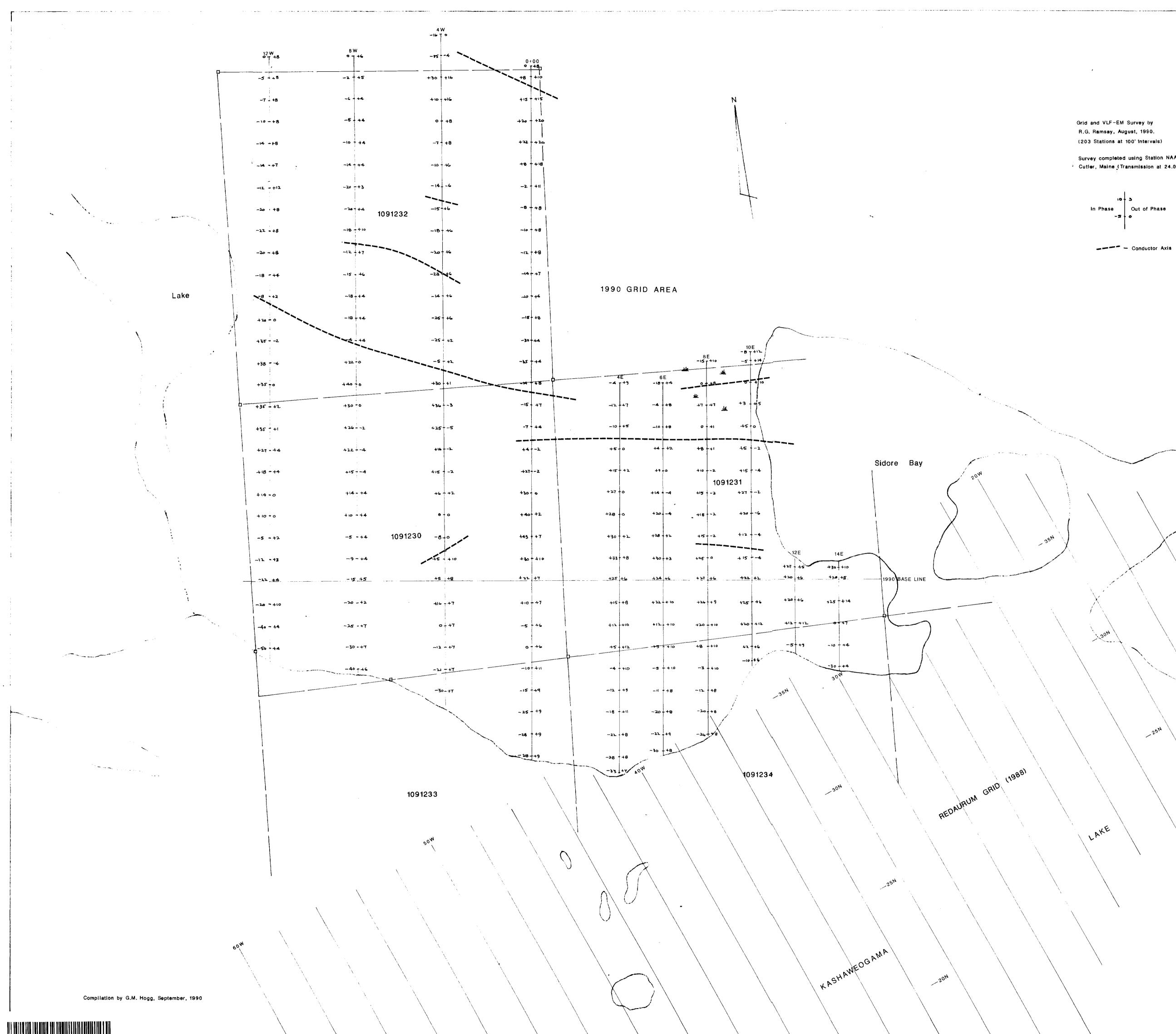
.

G. M. HOGG

MAP NO. 6

NORWAL BRY

 $2 \cdot 1 4299$

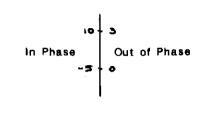


J07NW0001 2.14299 ARMIT LAKE

230

Grid and VLF-EM Survey by R.G. Ramsay, August, 1990. (203 Stations at 100' Intervals)

Survey completed using Station NAA, Cutier, Maine (Transmission at 24.0 kHz)



- - Conductor Axis

1.300

LAKE

▲ /

SIDORE PROSPECT

KASHAWEOGAMA PROPERTY SAVANT LAKE AREA, ONTARIO VLF-EM SURVEY, AUG. 1990

SCALE: 1 INCH - 200 FEET

G. M. HOGG 2.14295

MAP NO. 5

NORWAY

BAY