

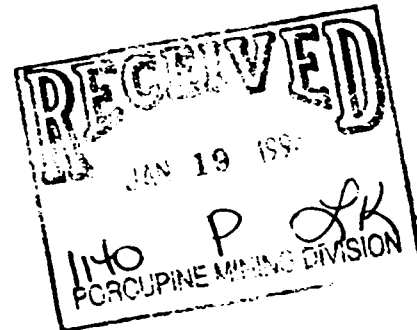
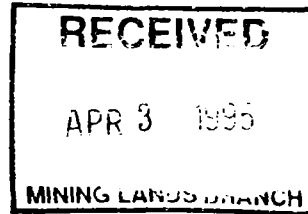


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**REPORT ON THE  
1993 EXPLORATION PROGRAM ON  
THE RANEY LAKE GOLD PROPERTY  
of  
CREE LAKE RESOURCES CORP  
RANEY TOWNSHIPS  
PORCUPINE MINING DIVISION, ONTARIO**

**2.15927**



Toronto, Ontario  
December, 1993

MPH CONSULTING LIMITED

## SUMMARY

Cree Lake Resources Corp commissioned MPH Consulting Limited to conduct an exploration program on a 44 claim gold property in the Raney Lake area of the Swayze greenstone belt of northeastern Ontario. The field work consisted of mapping, prospecting and soil geochemical sampling and was conducted between September 20, 1993 and October 14, 1993.

From previous exploration, gold has been reported to occur in two quartz-carbonate veins on the property, one hosted within a silicified-carbonatized mafic volcanic or volcanoclastic unit ("Area 1"), and the second in a sheared carbonatized quartz feldspar porphyry ("Area 2"). These settings are typical of the Swayze, which is noted for its narrow, high grade quartz vein-type gold occurrences which generally have limited tonnage potential. The gold occurrences on the Raney Lake property, however, are contained within larger alteration envelopes which themselves are gold-bearing, particularly at the Area 1 showing. This then may present potential for larger tonnages and indicates the possibility for more extensive veining than that noted in most other Swayze occurrences. The alteration envelopes are similar to those found about other gold deposits in the Swayze Belt (Joburke, Kenty, Rundle Mines), and elsewhere in the Superior Province.

The presence of the two quartz-carbonate veins, which both reportedly returned over 1 oz per ton gold from surface grab samples, led to renewed interest in the property during the mid-1980's. The depth extent and along strike extensions of these veins had never (and still have not) been tested. Previous work includes some twenty shallow Winkie drill holes, ground magnetic, HLEM, IP, and VLF-EM geophysical surveys, prospecting and mapping. This work was carried out in patchwork-like fashion by various groups at different times over parts of the present property. One of the critical undertakings during the present exploration program was to comprehensively compile all of these previous surveys.

The bulk of the property is underlain by predominantly mafic volcanic units which are broadly convex to the north and strike WSW to ESE. These volcanics are continuous, dip steeply to the north, and appear to be overturned based on regional consideration. A number of narrow, interflow clastic sedimentary units are observed within the volcanic package as are a number of quartz feldspar porphyry units.

Intermediate to felsic volcanics with associated clastic and chemical sediments outcrop in the centre of the property, and host the gold showings. These volcanoclastic units seem to occupy a restricted paleobasin in the underlying volcanics. The rocks recognized here are not observed to the east, where they become covered by overburden, or to the west, where they disappear beneath Raney Lake. The volcanoclastics are likely interfingered with the volcanics, and are inferred to pinch out laterally.

Contained within this relatively pristine volcanoclastic assemblage are a number of zones of extensive penetrative foliation development and accompanying alteration. The auriferous quartz veins are contained within such zones. Considerable carbonate alteration accompanies this shearing over at least 400 metres of strike extent at the Area 2 gold showing. The areas of high

strain and intense carbonate alteration observed on the present property are characteristic features found in association with larger gold deposits in the Abitibi Belt of the Superior Province.

Conformably overlying the central pyroclastic-sedimentary basin are a series of predominantly mafic flows with associated interflow sediments and porphyry bodies. These rocks extend south of the property boundary. The property is transected on the west by a NNW-striking regional fault.

The current work program was designed to map any along-strike extensions of the known gold showings, to assess the entire area for its gold potential, and to conduct a gold-in-soil geochemical survey in order to define areas of possible bedrock gold concentrations. The program consisted of selected soil geochemical sampling over more than 35 line kilometres resulting in the collection of over 1600 samples, geological mapping of the western and eastern portions of the property, re-mapping of the central portion and along-strike prospecting over the extensions of known gold zones along with extensive bedrock sampling of known or potential gold zones.

Our bedrock sampling has served to confirm both the tenor of the gold showings and the results obtained during previous exploration programs. A selected grab sample from the Area 2 showing returned approximately 0.96 oz per ton gold. A sample of vein material and heavily pyritized wallrock from the Area 1 showing returned approximately 0.11 oz per ton gold. This value is considerably lower than those previously reported, which were up to the 1 oz per ton gold range. A relatively erratic distribution of coarse gold is suspected in this vein.

The soil geochemistry has outlined a broad zone of weakly anomalous gold-in-soils over the Area 2 gold showing. Geochemical thresholds are low over the entire property, a reflection of a generally poor sampling medium namely glaciofluvial sand/silt. The soils program does however, serve to suggest the possibility of some strike extension of the Area 2 auriferous quartz vein. The geochemical anomaly over this showing is coincident with IP chargeability anomalies defined during previous exploration. This quartz veining and/or host zone of shearing and alteration is inferred to extend for at least 400 metres along strike and is largely untested.

A compilation of previous drilling on the property has led to the recognition of an eastward strengthening gold-bearing alteration envelope surrounding the Area 1 auriferous quartz vein approximately 500 metres northeast of the above. This alteration is characterized by increased sericite, carbonate and silicia flooding in mafic wall rocks surrounding the quartz-carbonate vein, which itself locally grades to the 1 oz per ton gold range based on previous sampling and drilling. Previous hole 84-30EA, one of the most easterly holes in Area 1, returned a 15.7 ft core length which averaged 0.072 oz per ton gold. By comparison, hole 84-15WB, located 45m west, returned 0.159 oz per ton gold over 7 inches in the equivalent zone. It may be of interest that this latter hole also contained a deeper gold zone or zones containing values in the 0.03-0.04 oz per ton gold range that may represent a new, parallel mineralized structure. This entire zone is completely open to the east where it extends under a low swampy area. This inferred east extension, and potential extensions to depth, probably represent the key target area on the entire property.

Given the lithologies and alteration, structural setting, continuity and the other exploration results to date, there is concluded to be potential for the discovery of an economic gold deposit on the property. Further work budgeted at \$130,000 is recommended, mainly in the above priority target areas, with the work to consist of detailed IP surveying with a 2500 ft diamond drill allowance.



	<u>Page</u>
1.0 INTRODUCTION .....	1
1.1 Location, Access and Infrastructure .....	1
1.2 Topography, Vegetation and Climate .....	3
1.3 Property and Legal .....	3
2.0 EXPLORATION HISTORY .....	5
2.1 The 1932-1935 Program .....	5
2.2 The 1972-1978 Program .....	5
2.3 The 1980-1984 Program .....	6
2.4 The 1986-1988 Program .....	6
3.0 THE SWAYZE GREENSTONE BELT - GEOLOGY AND MINERALIZATION ..	8
4.0 1993 MINERAL EXPLORATION PROGRAM .....	12
4.1 Compilation and Re-evaluation of Previous Exploration .....	12
4.1.1 Geophysics .....	12
Total Field Magnetic Surveys .....	12
VLF-EM Survey .....	14
IP/Resistivity Surveys .....	14
4.1.2 Drilling .....	15
4.2 Grid System .....	18
4.3 Geologic Mapping and Prospecting .....	18
4.4 Surface Rock Sampling .....	22
4.5 Soil Geochemical Survey .....	23
4.5.1 Glacial History .....	23
4.5.2 Sampling and Assaying .....	24
4.5.3 Results .....	25
5.0 DISCUSSION .....	26
6.0 CONCLUSIONS AND RECOMMENDATIONS .....	28
REFERENCES	

### **List of Figures**

- Figure 1      Location Map and Access
- Figure 2      Geology and Gold Occurrences of the Swayze Greenstone Belt
- Figure 3      Geophysical coverage plan

### **List of Tables**

- Table 1      Table of Lithologic Units for the West Swayze

### **List of Appendices**

- APPENDIX 1      Drill Cross Sections, Area 1
- APPENDIX 2      Assay Certificates
- APPENDIX 3      Sample Locations and Descriptions
- APPENDIX 4      Pre-1993 Sample Locations and Descriptions

### **List of Maps (at rear)**

- Map 1      (East and West Sheets) Geology and Sampling - Scale 1:2500
- Map 2      (East and West Sheets) Gold Geochemistry and Compilation - Scale 1:2500

## **1.0 INTRODUCTION**

Located in the Swayze greenstone belt of northern Ontario, the Raney Lake property contains two historic gold showings which have reportedly returned assays up to 1.0 oz per ton gold during previous sampling programs.

Cree Lake Resources Corp commissioned MPH Consulting Limited to carry out a program of prospecting, geologic mapping, and geochemical sampling on a 42 claim property north and east of Raney Lake. This property includes the two known gold showings, as well as the inferred strike extensions of the host structures. As a result of geological mapping, a further two claims were staked at the end of the exploration program to increase the property to its' present 44 claim size.

The work program was conducted in the period from mid-September 1993 through mid-December 1993 including map and report preparation. The results of this program are presented in the context of the geology and exploration potential of, and the previous work and gold mineralization on, the Raney Lake property and the Swayze greenstone belt. Recommendations are presented for on-going exploration of the claims.

### **1.1 Location, Access and Infrastructure**

The property is located in southern Raney township, District of Sudbury, Ontario and is centred at latitude 47° 47'N, longitude 82° 46'W per Figure 1.

The claim group is approximately 110 km southwest of Timmins, 60 km east of Chapleau and 210 km north of Sudbury, Ontario.

An existing network of logging roads provides excellent access to the property. The main forest access road in the region, the Dore Road, leaves Highway 101 at a point 10 km east of Foleyet, Ontario and heads in a southerly direction. At a point 45 km south of Highway 101, the road splits (see Figure 1). The fork continuing to the south proceeds into Coppell Township and ultimately to the Ramsey Road. The fork to the west, designated as Road #105, passes the Foleyet Timber Camp and proceeds westward into Biggs Township, where it intersects with Road #216. Road #216 proceeds southwest through Rollo Township, which is immediately east of Raney Township. Road #216 connects with Road #418 and Road #108, both of which continue to the west and allow access to Raney Township.

Road #418 leads to the southeastern part of the property and ends at approximately L8E 1+00S. Road #108 proceeds to a point 1 km north of the northern claim boundary of the property. This road is expected to be extended to the southwest, and should shortly allow access directly into the central and western portions of the property.

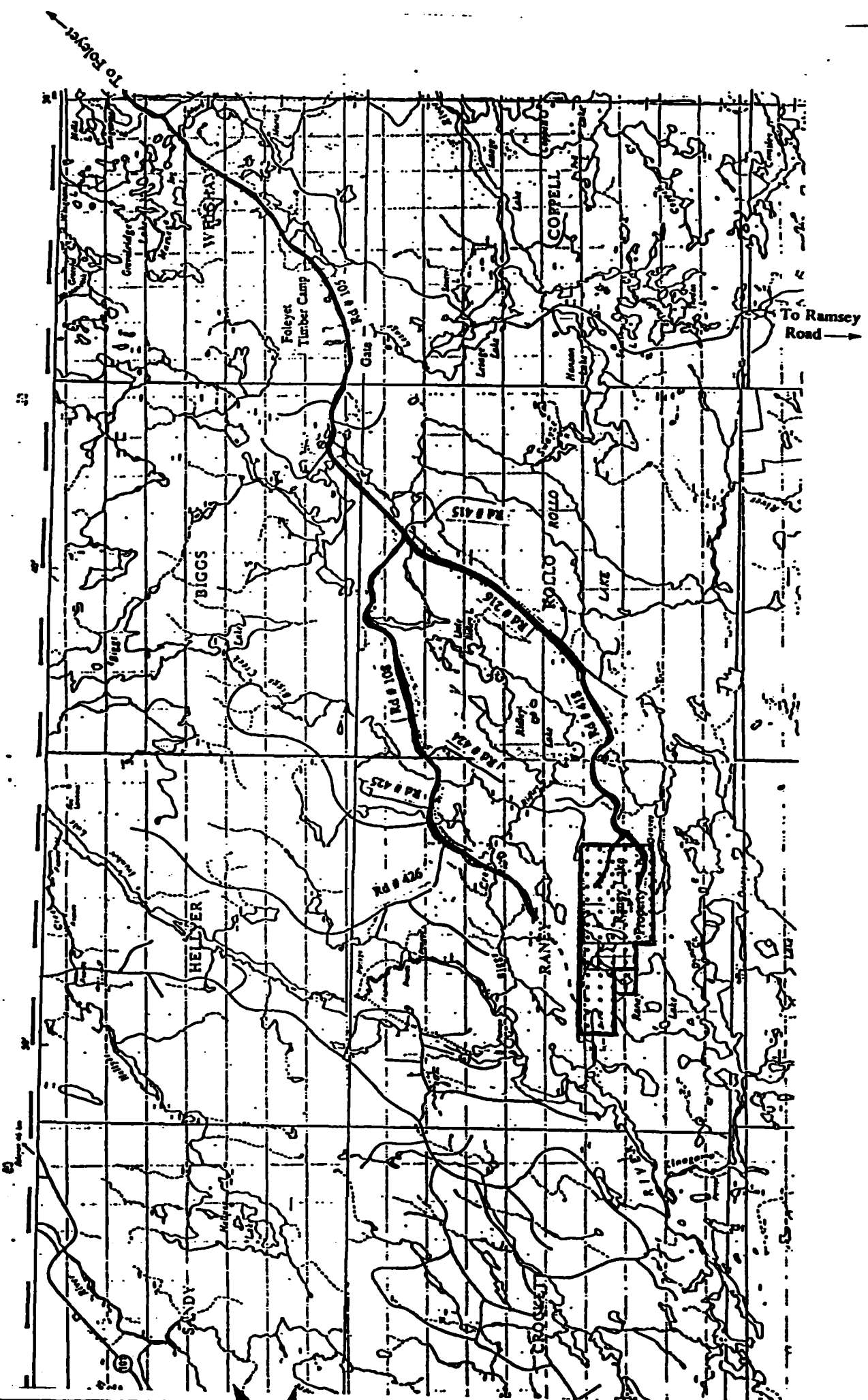
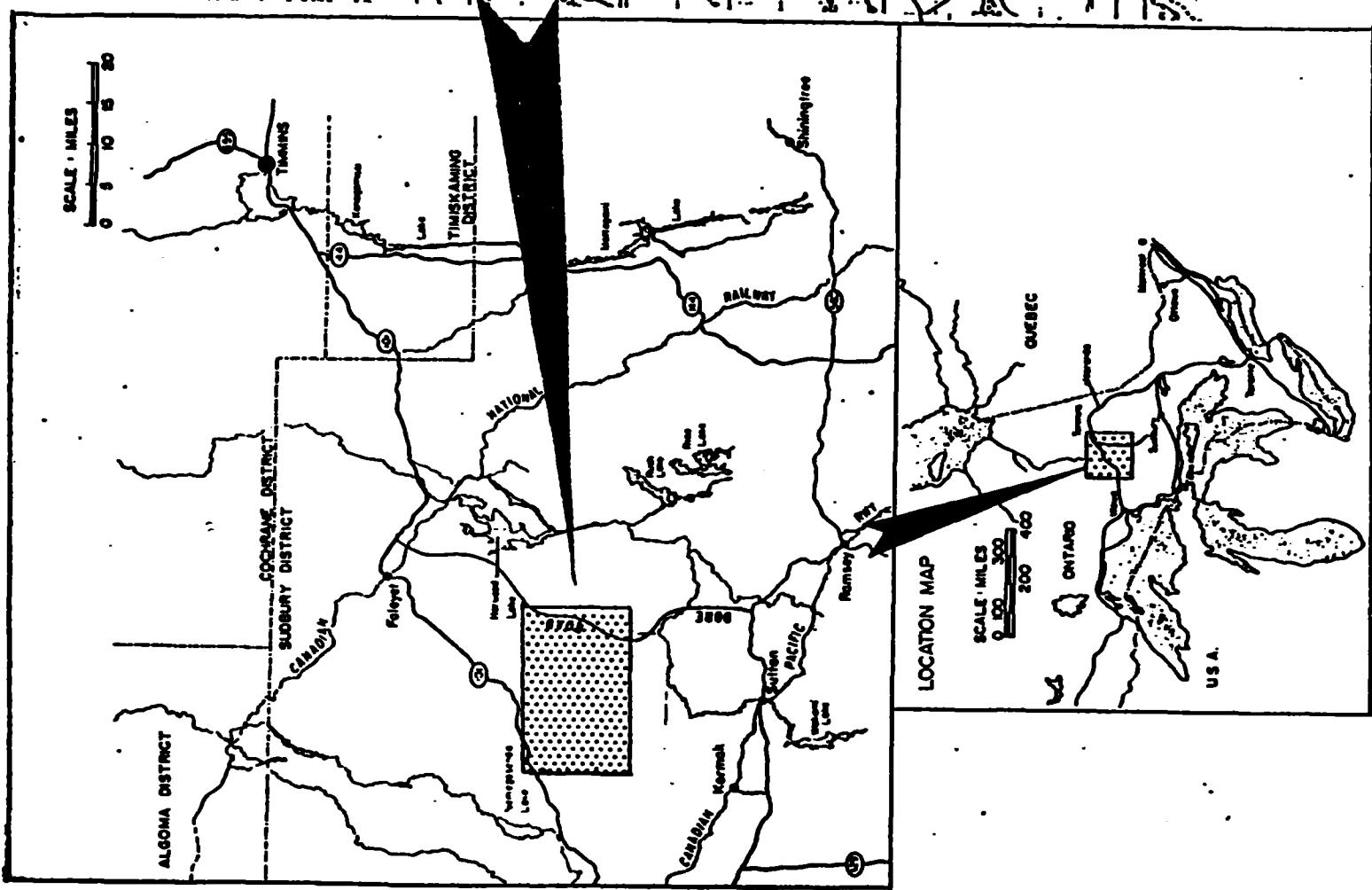


Figure 1: Location Map and Access Map



The property is in an area designated as a remote site by the Ministry of Natural Resources and, as such, requires the special permission of that Ministry for access. Such permission is readily obtainable. The roads leading west from the Foleyet Timber Camp (about 20 kilometres northeast of the property) are protected by a locked gate.

Float-equipped aircraft can land on Raney Lake, which is to the immediate southwest of the claim block.

The property is approximately equidistant from Marathon/Manitouwadge/Wawa, Timmins and Sudbury. There is a large and relatively stable work force in the region from which to draw miners for any new mining operation.

The CPR main line passes through the small railhead of Sultan, approximately 36 km southwest of the property. E.B. Eddy Forest Products maintains a large camp at Ramsay, approximately 80 km by road to the southeast, also on the CPR line.

Abundant fresh water is available on the property from Raney and Duck Lakes. The nearest hydro-electric power is at Chapleau.

## **1.2 Topography, Vegetation and Climate**

The property is covered with a variable thickness of glacial materials, which in turn are covered by swamp in the low-lying areas.

Second growth jackpine, spruce and poplar are present on the higher ground with alders and cedars in the swampy areas. Swamps and ridges generally trend east-west, reflective of underlying structural and lithologic trends.

Much of the claim block is slated for logging in the winter of 1993-1994. The eastern portion of the property was being actively logged in October 1993. It is planned that the majority of the eastern reaches, from line 0 eastward, will be clearcut by January 1994. The western extents of the property are slated for clearcutting in February or March 1994.

The climate is typical for this latitude with an average temperature range from +30°C in summer to -40°C in the winter. Freeze-up is in November with break-up in April.

## **1.3 Property and Legal**

The Raney Lake property is within the Porcupine Mining Division of Ontario. It consists of 44 contiguous unpatented mining claim units comprising some 704 hectares (see Drawing #1) as follows:

<u>Claim No</u>	<u>Number of Units</u>	<u>Date of Record</u>	<u>Expiry Date</u>
1180250 ✓	1	93/May 03	95/May 03
1182520 ✓	2	93/Apr 13	95/Apr 13
1182521 ✓	1	93/Apr 13	95/Apr 13
1201196 ✓	16	93/Oct 19	95/Oct 19
1201197 ✓	12	93/Oct 19	95/Oct 19
1201198 ✓	2	93/Oct 19	95/Oct 19
1201199 ✓	8	93/Oct 19	95/Oct 19
1200330	2	93/Nov 10	95/Nov 10

Credits with respect to the current work may be banked against the specific claim and applied against future assessment work requirements for that claim or other contiguous claims, for up to a maximum of five assessment years at a time. Upon approval of the current application for assessment credit filed as a result of this work, the claim expiry dates will be 1998, with enough banked work to potentially keep all the claims in good standing until at least 2000-2001.

## **2.0 EXPLORATION HISTORY**

The following exploration history of the property has been compiled from government reports, assessment records on file at Queen's Park in Toronto and in Timmins, and from personal communication with previous workers. At least four previous exploration campaigns have been conducted by companies and prospectors in the past 60 years.

### **2.1 The 1932-1935 Program**

The Raney Lake Prospecting Syndicate first conducted exploration work on the property in 1932. A group of 35 claims northeast of Raney Lake was staked, prospected and explored by selective trenching. Two gold-bearing quartz veins were discovered and exposed during the program.

The first quartz vein, striking S80E and dipping steeply north, was traced for 100 feet with a maximum width of 2 feet. Host rocks were described as arkose or impure quartzite. Mineralogically, the vein was described as containing minor pyrite and carbonate with native gold in one place. This showing is referred to as the Area 1 showing throughout this report.

A second quartz vein was exposed 500 feet southwest of the first showing. It strikes N60E, was exposed continuously for 100 feet, and averaged 6 inches in width. Host rocks were described as a feldspar porphyry containing traces of pyrite, chalcopyrite, and galena. Native gold was observed in one place. This showing is referred to as the Area 2 showing throughout this report.

These two veins were later reported in the 1934 ODM Annual Report as the "Throme-Greaser gold showing".

### **2.2 The 1972-1978 Program**

In 1972, J-DEX Exploration Limited staked 28 claims southeast of, and a separate 4 claims to the northeast of, Raney Lake. The latter claims contained the previously discovered gold showings. If any work was conducted in the vicinity of the gold showings during this period, no record is available.

In 1978 the claims surrounding the showings lapsed and were staked by D.O. Baker. One Winkie drillhole, with a length of 218 feet, was drilled in the vicinity of the Area 1 showing. Some confusion exists over the exact bearing and collar location of the drill hole, but the hole location is definitely in the vicinity of the Area 1 trench.

### **2.3 The 1980-1984 Program**

In 1980 J-DEX Mining and Exploration acquired the claims over the gold showings and staked surrounding ground. This claim block was flanked by Raney Lake to the southwest, Duck Lake to the north and by Long Lake to the south. This block covered what is now the central portion of the present property.

In 1982, geophysical surveys (magnetics and VLF-EM) were conducted over the area of the two known gold showings.

A detailed exploration program consisting of geological mapping and sampling was conducted in the summer of 1984. This surface exploration work was almost immediately followed by a limited Winkie drilling program in October, 1984.

The Winkie drilling program consisted of 11 holes with a total length of 2,017 feet. Seven holes were positioned at three collar locations to test the depth extension of the gold showing in Area 1. These holes generally cut the vein zone at very shallow depth. Four holes were positioned at a single collar location to investigate VLF-EM anomalies located to the northwest of the showing. The Area 2 gold showing was not tested during this drill program.

Immediately after the drilling program, in November, 1984, J-DEX Mining and Exploration staked 21 claims to the south of their existing claim block, and conducted similar geologic mapping and sampling programs. Except for two claims, this 21 claim block is located south of the current property boundary.

### **2.4 The 1986-1988 Program**

The next systematic exploration program on the property was in 1986. J-DEX Mining and Exploration, in a joint venture with Goldrock Resources and Glen Auden Resources, extended the original J-DEX claims to a 72 claim property.

Induced Polarization surveys were conducted in August and September of 1986 over approximately 15 km of grid covering the central portion of their property (L 11+00W to L 6+00E), which included the area around the gold showings (with the one exception being the critical, swampy area immediately to the east of the Area 1 showing).

Three sub-parallel zones of anomalous chargeability were recognized. The northernmost zone lies 25 meters north of the Area 1 gold showing. The second anomaly, which displays coincident low resistivity, occurs 25 meters south of the Area 2 gold showing. The third, southernmost anomaly is characterized by moderately strong chargeabilities and low resistivities over a strike length of over 300 meters.

In addition to the IP survey, 17.6 km of total field magnetics and VLF-EM surveys were conducted to the west (designated as Grid 2) and southeast (designated as Grid 3) of the central area. No definitive magnetic or VLF anomalies, which could be related to gold mineralization, were delineated.

A lithochemical survey in the vicinity of the showings was reported on in November, 1988. A total of 59 rock samples, including 12 samples from the Area 1 showing and 11 samples from the Area 2 showing, were collected.

Four samples from Area 1 returned gold values above 500 ppb (0.5 g/t). The arithmetic average of all samples from the Area 1 showing was 545 ppb Au. The two highest samples returned 1150 ppb Au and 3280 ppb Au. No sample descriptions could be located.

Most samples obtained from Area 2 returned gold values below 150 ppb. Two exceptions were encountered, one sample returning 1225 ppb Au, the other > 10,000 ppb (no re-assay reported). Once again, no sample descriptions could be located.

A drilling program to test the IP anomalies, as well as some magnetically and geologically inferred structures associated with the Area 2 gold showing was executed in 1988. Thirteen Winkie holes totalling 1233 feet were drilled during the program. Extreme difficulties were encountered during the drilling of the planned holes. Many of the planned targets were never intersected, and for the most part, remain untested. No assay values are available for the drill core samples, although all values were apparently "low" (personal communication, R. Middleton). The Area 1 gold showing was not tested in this program.

### **3.0 THE SWAYZE GREENSTONE BELT - GEOLOGY AND MINERALIZATION**

The Swayze area, which includes Raney township, is one of Ontario's historic gold areas and has seen prospecting activities for a variety of metals. Although there are no significant precious or base metal producers in the area at the present time, the Swayze has a rich mineral endowment typical of the Abitibi Orogenic Belt. Deposits and/or occurrences of gold, silver, zinc, nickel, copper, lead, iron molybdenum, asbestos, talc, barite and marl are known in the area. Carbonatite-associated rare earths and industrial minerals are present west of the Swayze associated with the Kapuskasing High.

The Swayze Belt can be thought of as an arcuate volcano-sedimentary ("greenstone") belt of Archean age, convex to the west, extending from Sewell township in the northeast, through Swayze township in the central region, to Groves township in the southeast per Figure 2.

The Swayze greenstone belt forms the westernmost extremity of the central Abitibi belt, partially disconnected from it by a series of late granodiorite/monzonite batholiths and north to northwest striking faults.

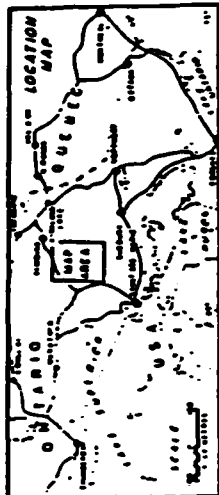
The volcanics consist primarily of mafic rocks which floor some substantial intermediate-felsic eruptive centres. Two such centres are to be found in the Kenogaming-Penhorwood and Cunningham township areas.

Clastic and chemical sedimentary rocks, including major banded iron formations, are concordant and intercalated with the volcanics in the southern Swayze belt. In the southeast portion of the Swayze, these sediments are predominately clastic in origin, form regionally extensive sedimentary units, and reflect a high energy phase of deposition in the deep water portion of a basin flanking eruptive centres (Thurston et al., 1977). Where sulphide facies iron formation predominates, low energy deposition within the same basin is assumed.








A variety of synvolcanic to post-volcanic intrusions have invaded the supracrustal rocks. Generally, mafic and ultramafic intrusions predate felsic intrusives (Thurston et al., 1977) but account for a very small proportion of the intrusive rocks overall.

The Swayze belt is truncated to the west by the fault-bounded, north-northeast trending Kapuskasing Structural Zone, which contains high-grade metamorphic rocks and associated carbonatite intrusive complexes. Some of the late north-northwest trending regional faults in the Swayze Belt either are associated with the Kapuskasing Structural zone, or predate it, since very few of these structures transect the boundary between the two provinces.

It has been recognized that the rocks in the north Swayze represent the first major reappearance of greenstones west of the Timmins-Porcupine gold camp, the latter notable for its production of some 57 million ounces of gold to date. It is likely that the Swayze belt rocks may be spatially and temporally correlated to the Timmins-Porcupine greenstones.

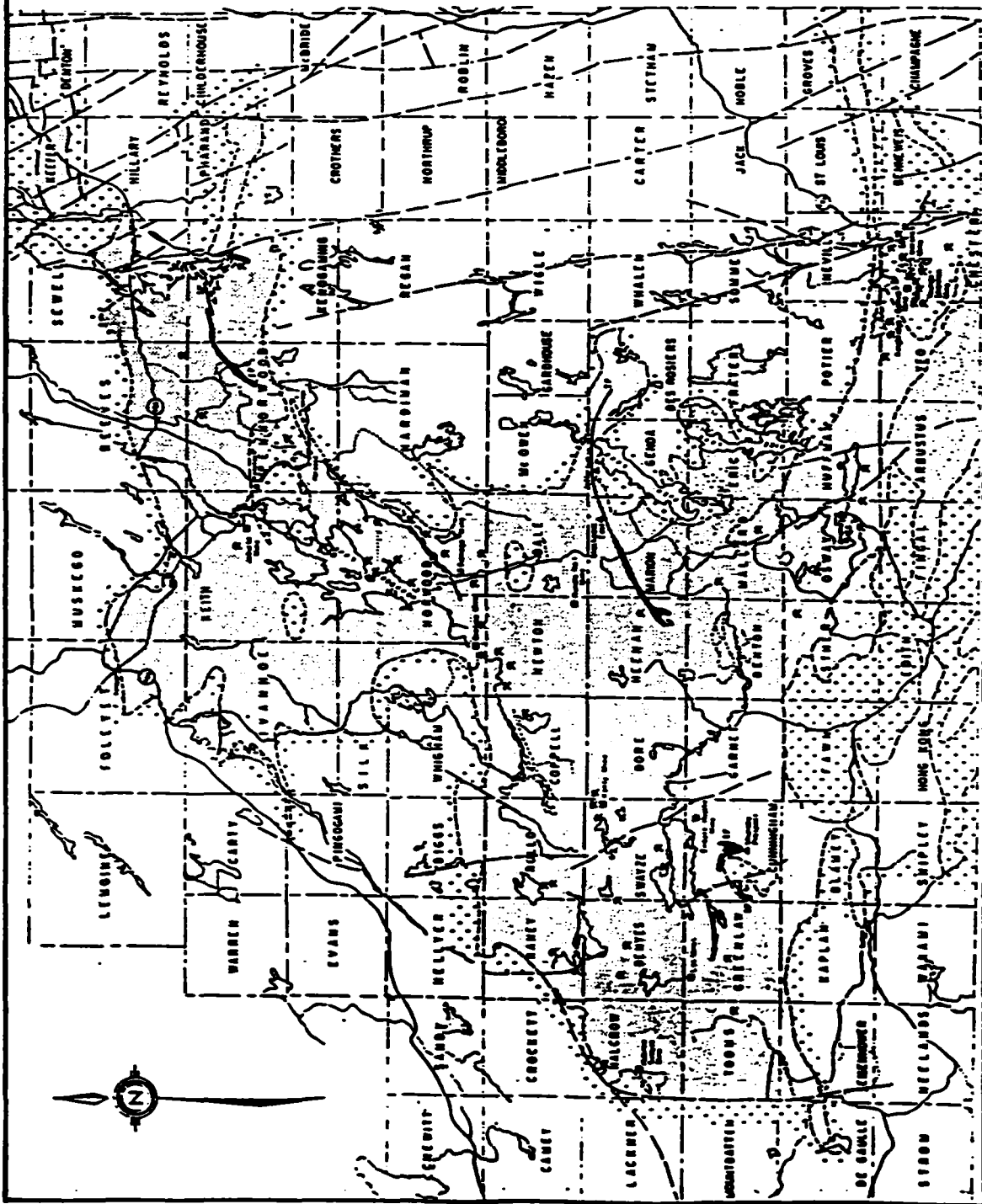


**LEGEND**

-  Proterozoic sediments
-  Swayze metasedimentary - mafic/ultramafic belt
-  Felsic intrusive rocks
-  Iron formation
-  Shale or gold deposit
-  Gold prospect or showing
-  Base metal prospect



**SWAYZE GREENSTONE BELT  
GEOLOGY AND GOLD OCCURRENCES  
FIGURE 2**



Both the Porcupine-Destor Fault and the Cadillac-Larder Lake Break are inferred to extend as zones of high strain through the north and south portions, respectively, of the Swayze, the former through the Joburke Mine area and the latter through the Jerome Mine area. Also, the Ridout Group sediments in the south Swayze may be correlative with the Timiskaming Group sediments in the Virginiatown-Kirkland Lake-Matachewan area. These sediments are intimately associated with zones of high strain and gold deposits in these camps.

The extensive carbonatization associated with features like the Cadillac-Larder Lake Break is also commonly observed along major fault and shear zones in the Swayze suggesting that the same fundamental processes have been operative.

Known gold mineralization in the Swayze Belt is typically of the quartz lode variety generally accompanied by shearing, fracturing and associated sulphides and carbonate. Sulphides typically include pyrite along with any or all of pyrrhotite, chalcopyrite, galena and sphalerite (Table I). Gold is present in a large variety of lithological and structural settings (Table 2). Examination of various gold deposits in the Swayze Belt suggests that silicification and carbonatization in association with shearing is a more important indicator of the localization of gold than a compilation of assessment information would indicate. There appears to be a strong correlation between felsic porphyritic intrusions and gold mineralization in the Swayze Belt. Pyritization of wall rocks, and pyrite within auriferous quartz veins, in many deposits suggests that pyrite occurrences should always be checked for their gold content.

Some prominent examples of gold occurrences in the Swayze belt are gold in quartz veins and replacements in diorite (Orofino deposit-Silk Township); in strongly sheared carbonated zones (Tooms-Greenlaw area); in siliceous zones associated with felsic porphyry (Rundle No. 1 deposit-Newton Township); in quartz vein zones in sheared sediments (Halcrow-Swayze deposit-Halcrow Township); near a porphyry contact in sheared sediments (Jerome Mine - Osway Township); in sheared, carbonatized mafic volcanics (Joburke Mine); and in quartz veins in granodiorite-granite (Chester-Yeo area).

Gold is also present in oxide iron formation (Marion Township), in pyritic iron formation associated with extensive shearing and carbonatization (Cree Lake) and in sheared pyritic zones in coarse intermediate volcanoclastics (Kenogaming township).

The gold potential of the Swayze greenstone belt has been recognized since the early 1900's. An early discovery was made at Moore Lake, Yeo township, in 1912 by P. Moore who test-pitted an auriferous quartz-carbonate vein within pyritized, carbonatized metasediments. Gold and copper mineralization in quartz-carbonate veins within sheared granite was investigated in Chester township in 1910. This showing (Lawrence prospect) eventually produced some 16 tons of 7% Cu, 0.15 oz per ton gold in 1916.

Much of the initial exploration focus in the region was directed towards iron deposits. The Woman River iron deposit (Algoma Steel Corp., 1906-07, Heenan and Marion townships) contains reserves of some 5,100,000 long tons of 40% Fe. Additional iron deposits include that



at Radio Hill in Keith and Penhorwood townships (158,200,000 long tons at 27% Fe; Kukatush Mining Corp., 1958-65). Iron exploration was also carried out in Cunningham township in the late 1920's.

Barite was discovered by R. Cryderman in Penhorwood township in 1917 with some production reported by Barite Syndicate Explorations in 1923. The deposit is currently held by Extender Minerals Ltd. who reportedly carried out bulk sampling in 1984 prior to a decision to ship material to their Matachewan barite processing facility.

The first major thrust in gold exploration and development occurred in the period 1930-1943, during which time most of the reported gold occurrences were discovered. Aside from the Joburke Mine, most of the gold production in the area was also from this time period.

Sporadic gold exploration occurred again in the mid 1950's and early 1960's with an explosion of activity during the 1980's following an increase in gold prices. Earlier prospecting discoveries culminated in the 1970's and early 1980's with gold production from the Joburke Mine, Keith township (Pamour Porcupine Mines Ltd.), a major evaluation program at the Orofino deposit (Orofino-Northgate Joint Venture), and extensive work and 15,114 oz Ag from 335,060 tons of ore (1938-1951) averaging 0.71 oz Au and 0.05 oz Ag per ton.

Base metals exploration was a major focus in the Swayze from the mid 1950's to the late 1960's. Lead-zinc mineralization was first discovered in the area in iron formation in Cunningham Township in 1904 by Ridout Mining Co. Later work by Shunsby Mines Ltd. (1957-63) in this same township found a Zn-Cu deposit in which the successor company, MW Resources Ltd., reports reserves of 2,400,000 tons at 2.7% Zn, 0.39% Cu with a higher grade section of 80,000 tons of 6.2% Zn, 3.9% Cu, 1.2 oz Ag per ton, 0.03 oz per ton gold (1981). This property is currently under option to Kirkton Resources Corp. who have completed a major program of geological mapping, geophysical surveying, stripping and trenching over part of the property. Their work has uncovered extensive copper-zinc-lead mineralization stringers in a chert-argillite sequence. Drilling on the property is expected to commence in late 1992.

Work on a copper-nickel deposit in Groves township from 1953 to 1975 resulted in the delineation of some 500,000 tons of reserves grading 1.5-2% combined Cu-Ni (Ontario Nickel Mines Ltd., Nickel Gold Mines Ltd.).

A large portion of the northern part of the belt was evaluated by Canadian-Johns Manville for its asbestos potential from 1951 to 1967. The Reeves Mine in Reeves township reportedly had reserves of 20,000,000 tons of 3 to 3.5% asbestos fibre content (1967). Upon cessation of the asbestos mining activities, a thriving talc mining/milling complex has been established at the site by Steetley Talc Limited.

#### **4.0 1993 - MINERAL EXPLORATION PROGRAM**

The 1993 mineral exploration program was conducted from September 20 to October 14, 1993 by a 4-5 man MPH team of geologists, geochemical samplers and prospectors with input from Toronto-based geophysical personnel as required.

The field program consisted of the re-establishment of the 1984 J-DEX grid followed by geologic mapping, prospecting, soil geochemical and surface rock sampling.

An extensive compilation and re-evaluation of previous exploration programs on the property was also included in the present program.

The results of the present efforts are presented in the following sections:

#### **4.1 Compilation and Re-evaluation of Previous Exploration**

##### **4.1.1 Geophysics**

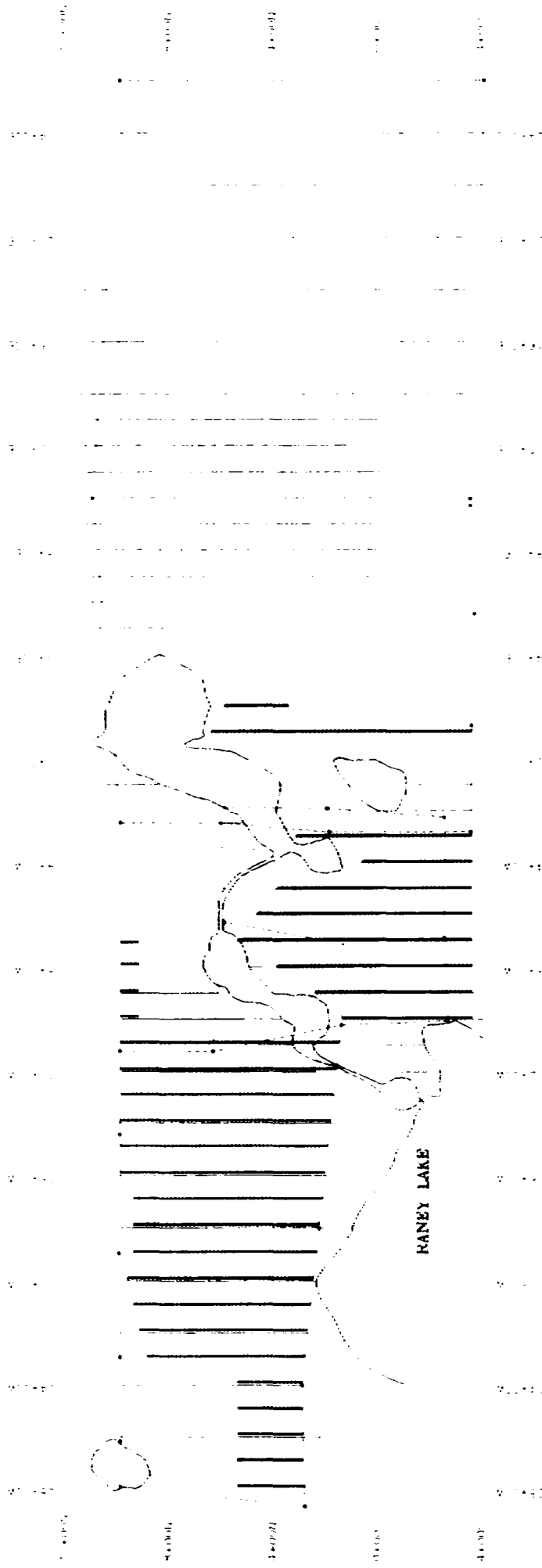
Various geophysical surveys have been completed on portions of the property. These include total field magnetics, VLF-EM electromagnetics, resistivity and induced polarization surveys. Survey coverage for which data is presently available is displayed in Figure 3.

##### **Total Field Magnetic Surveys**

Two total field magnetic surveys have been conducted on the property. The first, completed prior to 1983, covered the central portion of the property (line 12+00W to line 13+00E). The second, completed in the spring of 1987, covered the western portion of the property (line 28+00W to 7+00W). Scintrex Proton MP-2 magnetometers were reported to have been used for both surveys.

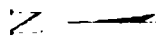
These two surveys overlap between line 12+00W to 7+00W (Figure 3). Large inconsistencies between the results of the surveys in this area suggest that one of the data sets is inaccurate. An examination of the discrepancy indicates that the results of the earlier survey are probably not valid, possibly due to unrecognized equipment malfunction. Consequently, no useful ground magnetic data exists over the known mineralized showings.

The 1987 survey indicates a generally quiescent magnetic response with an average background of 58,850 nT. Three discrete, linear highs with amplitudes of up to 2,000 nT above background crosscut the trends of the underlying lithologies and are interpreted to reflect crosscutting dykes. No outcrop exists to define the lithologic cause of these anomalies, but at least one linear high is believed to reflect the extension of a gabbro dyke mapped in the northwest corner of the property.



**LEGEND**

- SURVEY GRID LINE
- - - CLAIM BOUNDARY
- - - SHORE LINE (LAKES, RIVERS)
- 1977 MAG/VLF-EM SURVEY COVERAGE
- 1987 MAGNETIC SURVEY COVERAGE
- 1988 IP/RESISTIVITY SURVEY COVERAGE



UNITED STATES GEOLOGICAL SURVEY  
 WATER RESOURCES DIVISION  
 MISSOURI DISTRICT OFFICE  
 JEFFERSON CITY, MISSOURI 64112  
 1988

### VLF-EM Survey

The VLF-EM survey appears to have been completed prior to 1983, concurrent with the apparently invalid magnetic survey. The coverage of the survey, which encompasses both of the mineralized showings, is from line 12+00W to line 13+00E. The survey was completed using a Geonics EM-16 unit.

The survey results identify numerous conductive features, the majority of which are interpreted to reflect variations in the overburden. Three of the stronger, more linear horizons are considered to be significant in light of their amplitude, strike extent and conformity to the underlying bedrock trends. These features are labelled as V-1, V-2, and V-3 on Map 2 at rear.

Conductor V-1, the strongest of the responses encompasses the Area 2 gold showing. It extends eastward from line 8+00W for 500 metres, at about 1+50N. The amplitudes are strongest from line 8+00W to line 6+00W. The feature parallels the trend of the underlying lithology and is interpreted as either a discrete conductive lithologic unit or a conductive feature associated with shearing.

Conductor V-2 extends parallel to, and approximately 80 m south of V-1. Once again, the strongest responses occur from line 8+00W to line 5+00W. This feature is interpreted in the same manner as V-1.

Conductors V-1 and V-2 bound a broad package of disseminated pyrite mineralization within a relatively resistive host rock based on field observations during the geological mapping and the IP/resistivity results.

Conductor V-3 extends from line 3+00E, 1+25S to 5+00E, 1+50S in an area that is covered by swamp. The amplitude of the responses is relatively low. The feature may be reflecting variations in the overburden layer but conforms roughly to the bedrock trend in the vicinity and, as such, may partially or wholly reflect a conductive bedrock feature.

### IP/Resistivity Surveys

The resistivity and IP surveys were completed in the summer of 1986 by R.S. Middleton Exploration Services Inc.. A total effective coverage of 7.2 line kilometres of dipole-dipole time-domain IP/resistivity data was completed. The survey parameters used were a dipole spacing of 25 m with dipole separations 'n' of 1 to 4. Readings were taken at 25 m station intervals using a Scintrex IPR-11 receiver and Phoenix IPT-1 transmitter/generator system.

The presentation of the data is as pseudosections of the calculated apparent resistivity and the channel 7 information only of the chargeability response.

The apparent resistivity data largely reflect the changes in the thickness of the overburden layer. No discrete correlation of this data set occurs with the known sulphide-mineralized

horizon bounded by conductors V-1 and V-2. Any discrete resistivity highs that correlate with polarizable highs are indicated on Map 2 with an asterix.

Several significant, polarizable zones have been identified from the IP survey (labelled IP-1 to IP-4).

Zone IP-1 includes the Area 1 gold showing and extends from line 8+00W, 4+25N to line 5+00W, 3+50N. The zone is open to the east and west beyond the limits of the IP survey. The feature is weak to moderately polarizable, with the strongest responses occurring on lines 5+00W and 6+00W.

Zone IP-1 is clearly much broader than the Au-mineralized zone and is inferred to reflect other sulphides associated with the broad envelope of shearing and alteration encompassing the quartz veins. The quartz vein itself is indiscernible in the IP data set. Similar response amplitudes are recognized on lines 6+00W and 8+00W, which are inferred to reflect the strike extension of the alteration envelope.

Zone IP-2 extends from line 10+00W, 1+00N to line 3+00W, 0+60N. The strongest responses occur on lines 7+00W and 8+00W. The polarizable horizon is bounded by VLF-EM conductors V-1 and V-2 to the north and south, respectively. The gold mineralization in Area 2 occurs on line 7+00W, in the northern portion of the chargeability response and correlates with conductor V-1. The strongest IP responses on this line occur south of the known showing, indicating that the concentration of sulphide mineralization is higher to the south. No discrete IP response is observed over the known gold mineralization. Zone IP-2 is interpreted in much the same way as IP-1, (ie. as a broad zone of shearing, alteration and sulphide (pyrite) mineralization) but has a higher polarizable signature with conductive features bounding the chargeable area. The interpreted zone continues to the east and west, with higher concentrations of sulphide mineralization geophysically inferred to occur on lines 8+00W and 10+00W.

Zone IP-3 is a narrow, moderately polarizable feature that parallels IP-2, approximately 250 m to the south. Zone IP-3 conforms to the underlying lithology and is interpreted to reflect minor sulphide mineralization possibly associated with shearing in the bedrock.

Zone IP-4 is representative of a polarizable source which extends from line 10+00W, 2+75S to line 3+00W, 1+40S and is known to reflect pyrite mineralization in a carbonate zone based on previous drilling.

#### **4.1.2 Drilling**

Three drilling campaigns have been conducted on the Raney Lake property. The first period of drilling was in 1978, with a single drill hole testing the Area 1 showing. Drilling in 1984 tested the Area 1 vein with seven drill holes covering 45 metres of strike length. The final drilling program, in 1988, attempted to test the Area 2 showing, but was largely unsuccessful. The locations for all of these holes are presented on Map 1.

In 1978, one Winkie drillhole, with a length of 218 feet, was drilled in the vicinity of the Area 1 showing. The country rock was logged as sheared and carbonatized dacitic crystal tuff. Visible gold was reported within narrow quartz-carbonate veins at 150 and 161.5 feet downhole. The best assays returned from these intervals were 0.11 oz per ton gold over one foot (150-151 ft) and 0.05 oz per ton gold over 4 feet (161-165 ft).

Some confusion exists over the bearing of the drill hole, since a sketch map filed for assessment purposes indicates a SSE direction, while the drill log specifies a SSW direction. Likewise, the collar location is given as a nebulous "1100 ft SW of Post No. 1". This drill hole could not be tied into the current grid, but the hole location is accepted as being in the vicinity of the Area 1 trench.

In 1984, a second program of drilling was undertaken to assess the gold potential of the Area 1 showing. The Winkie drilling program consisted of 11 holes with a total length of 2,017 feet. Seven holes were positioned at three collar locations to test the depth extension of the gold showing in Area 1. Vertical cross sections for this drilling are presented in Appendix 2. These three collar locations spanned 45 metres of strike length. Four holes were also positioned at a single collar location to investigate VLF-EM anomalies located to the northwest of the showing. The Area 2 gold showing was not tested during this drill program.

Assay values of grab samples from the exposed narrow quartz vein in Area 1 reportedly exceeded 1 oz per ton gold. The drilling program indicated a zone widening to the east and containing significant gold values with results from west to east as follows:

<u>Hole</u>	<u>Azimuth</u>	<u>Dip</u>	<u>Core Length (ft)</u>	<u>Grade oz/ton Au</u>
84-15WA	210°	-45°	no sig. values	
84-15WB	210°	-70°	0.6 (main vein)	0.159
			3.3	0.035
			7.8	0.035
84-15EA	210°	-45°	4.83 (main vein)	0.024
84-15EB	210°	-67°	1.0 (main vein)	0.839
			4.7	0.045
			5.0	0.046
			4.0	0.015
			4.0	0.015
84-30EA	210°	-45°	15.6 (main vein)	0.074
			incl 3.75 ft @ 0.168 oz/ton Au	
84-30EB	210°	-65°	3.3	0.028
			~20	0.02-0.04
84-30EC	190°	-65°	3.17	0.184

The four holes positioned to the northwest of the Area 1 gold mineralization were collared on L7W at 4+50N. Drill logs indicate that a VLF-EM anomaly existed in this vicinity, and that the drilling pattern is somehow related to the attempt to test this VLF-EM anomaly. No VLF-EM signature is discernable on any maps filed for assessment purposes. These holes do, however, intersect anomaly IP-1, albeit in a zone of lower response than that found elsewhere at the IP-1 horizon. No significant mineralization was encountered in these holes, but slightly elevated sulphide contents and minor alteration were recorded.

In 1988, another drilling program was undertaken to test a number of geophysical targets, and to assess the Area 2 gold showing.

Two holes, R88-01 and R88-02, tested the southernmost IP anomaly (IP-4) of the 1986 geophysical program, which is situated south of the Area 2 gold showing. The holes intersected ash and lapilli tuff, mafic dyke, argillite and sheared "dolomite schist", which is likely a strongly carbonatized (ultramafic?) country rock. Both holes contain up to 4% pyrite over 12 feet hosted by "dolomite schist" in Hole R88-01 and by tuff in Hole R88-02. This IP anomaly is interpreted to be caused by these disseminated sulphides. Gold values are reported to be low in these holes.

Another 3 holes, namely R88-3A, R88-3B and R88-3C, were drilled in an attempt to test the IP anomaly which passes 25 meters south of the Area 2 gold showing (anomaly IP-2). This IP anomaly was inferred to intersect an interpreted northwest trending fault in the drilling area. All the holes were abandoned before reaching their targets due to the inability of the small diameter drill to penetrate broken ground. Ash tuff and variably altered quartz-sericite-carbonate schist were encountered in all three holes.

The Area 2 gold showing was tested by two drillholes, R88-6A and R88-6B. These holes had to be abandoned due to caving before reaching the vicinity of the target quartz vein. The holes ended in a strongly altered quartz feldspar porphyry.

Drillholes R88-04 and R88-05 were positioned to test the along strike extension of the Area 2 gold showing. A strongly altered quartz feldspar porphyry (quartz-sericite-schist) was encountered in both holes. However, no significant quartz veining or sulphide mineralization was observed.

Drillhole R88-07 was placed to test an indicated previous surface sampling result of 0.17 oz per ton gold over 7.0 feet immediately northwest of the Area 2 quartz vein. The hole intersected an altered quartz feldspar porphyry and an ash tuff. The porphyry was silicified and sulphidized with 1-4% disseminated pyrite. A quartz-ankerite vein with 2% pyrite was reported to assay 377 ppb Au.

The remaining 3 drillholes (R88-08, R88-9A and R88-9B) tested an IP anomaly occurring just south of Area 2 - gold showing. Each of the holes was abandoned before reaching

the target. The holes intersected an altered quartz feldspar porphyry, an altered tuff and a mafic dyke.

As a whole, this 1988 drilling was a failure, with very few of the drillholes actually intersecting their intended targets. The Area 2 gold showing, which should have been assessed as a result of this program, remains largely untested.

#### **4.2 Grid System**

The Raney Lake property has a number of old grids covering about 60% of the property. These grids are remnants of previous exploration programs, and were cut and chained at various periods throughout the 1980's. As a result, the western and central grids required integration and re-chaining to establish them as a base for the 1993 mapping and sampling programs. The cut lines were generally easy to follow and only lightly overgrown.

Topographic control was placed on the previous grid lines by utilizing air photos. As a result, a number of inconsistencies in the grids as they are portrayed in previous reports were corrected. The grid as displayed on the maps accompanying this report is spatially correct.

No cut lines exist from L8E to the eastern property boundary, north of the baselines. Since this area is slated for clear cutting by March 1994, no formal cutting activities were contemplated. Instead, compass and hip chain lines were placed north from the baselines, with each 25m station flagged.

A number of cut grid lines, which were not rechained, exist in the central part of the property. These lines are at 5+50W, 6+50W, 7+50W, 8+50W and 9+50W.

#### **4.3 Geologic Mapping and Prospecting**

In 1984, J-DEX Mining and Exploration conducted geologic mapping in the central portion (between L7E and L12W) of the property. The adjacent eastern and western portions of the present property have never been mapped.

The present program included mapping over the entire property, and has integrated the existing geology of the central portion onto a comprehensive map. Geologic mapping has been supplemented by prospecting. Mapping was conducted at 1:2500 scale.

The property is located in the western portion of the Swayze greenstone belt and is underlain by sequences of mafic to intermediate metavolcanic rocks, felsic to intermediate volcanoclastic and associated volcano-metasedimentary rocks.

A generalized Table of Lithologic Units for the west Swayze area is presented following.



Table of Lithologic Units for the West Swayze

**CENOZOIC**

**PLEISTOCENE AND RECENT**

Till, sand, gravel, boulders, clay

**UNCONFORMITY**

**MESOZOIC**

**?LATE JURASSIC TO EARLY CRETACEOUS**

Lamprophyre dikes

**INTRUSIVE CONTACT**

**PRECAMBRIAN**

**LATE PRECAMBRIAN**

**MAFIC TO INTERMEDIATE INTRUSIVE ROCKS**

**CARBONATITE-ALKALIC COMPLEXES**

**INTRUSIVE CONTACT**

**EARLY TO MIDDLE PRECAMBRIAN**

**MAFIC INTRUSIVE ROCKS**

Diabase, quartz diabase, granophyre

**INTRUSIVE CONTACT**

**EARLY PRECAMBRIAN**

**SHAWMERE ANORTHOSITE COMPLEX**

**INTRUSIVE CONTACT**

**KAPUSKASING STRUCTURAL ZONE ROCKS**

**FAULT CONTACT**

**FELSIC IGNEOUS AND METAMORPHIC ROCKS**

Felsic Intrusive and Hybrid Rocks

**INTRUSIVE OR GRADATIONAL CONTACT**

Migmatitic Rocks

**INTRUSIVE CONTACT**

**MAFIC TO ULTRAMAFIC INTRUSIVE ROCKS**

**INTRUSIVE CONTACT**

**\* METASEDIMENTS**

Greywacke, arkose, quartzite, conglomerate, argillaceous fine-grained metasediments, biotite-quartz-feldspar schist and gneiss, migmatized metasediments, iron formation

**\* METAVOLCANICS**

**Felsic to Intermediate Metavolcanics**

Rhyolite to dacite flows and fragmental rocks, tuff, lapilli-tuff, agglomerate, breccia, porphyritic flows, quartz-feldspar porphyry, iron formation

**Mafic to Intermediate Metavolcanics**

Basalt to andesite flows and porphyritic flows, pillow lava, mafic pyroclastic rocks, layered amphibolite, diorite, gabbro, migmatized mafic metavolcanics, iron formation

\* Raney Township property

Mafic to intermediate metavolcanics occur extensively in the eastern, the western and the northern portions of the property. Thick sequences of basaltic to andesitic flows (Unit 1) with minor, relatively thin layers of tuffs (Unit 2) characterize these areas.

Basaltic to andesitic flows are fine to medium grained, dark green to green in colour and are massive to pillowed. Although pillows are evident by the chlorite rims, they are variably deformed and stretched such that the determination of younging direction is not possible on the property. Pillow tops recorded to the immediate west (D. Hillier and R.S. Middleton (1983)) and the south (C. Nadia and I. Coster (1984)) of the property during previous exploration programs indicate younging to the south.

Mafic flows contain traces of disseminated pyrite in the matrix.

Mafic to intermediate tuffs (Unit 2) are characterized by a greenish-grey colour and are commonly banded units of fine ash and lapilli tuff. These tuffs characteristically occur as interflow units.

Felsic to intermediate volcaniclastic rocks (Unit 3) consisting of ash to lapilli tuff, waterlain tuff and cherty sediment layers are exposed in the central portion of the property. This unit has a thickness of more than 650m, but appears to wedge out toward the east and west. It is a conformable unit between two sequences of mafic flows, possibly occupying a depositional basin. Lithologies of this unit are characterized by a light to dark grey colour and are typically rhyolitic to dacitic in mineral composition. Quartz veins several centimetres thick commonly fill tension fractures.

Beds of metasedimentary rocks mainly composed of argillite and some greywacke ± sandstone/arkose (Unit 4) intercalate with the felsic volcaniclastic unit in several places.

All units on the property are intruded by gabbro/diorite and quartz feldspar porphyry dykes and sills.

Gabbro/diorite units (Unit 5) are medium to coarse grained, mottled green and white in colour and contain plagioclase, pyroxene and/or hornblende. They usually occur as sills in the stratigraphy although cross-cutting relationships are observed in the northwest portion of the property.

Quartz-feldspar porphyries (Unit 6) are characterized by a light grey, aphanitic matrix containing angular to subhedral quartz "eyes" and plagioclase phenocrysts. They usually occur as sills. Chloritized xenoliths of the surrounding country rock are observed in places. The porphyries usually contain traces of disseminated pyrite (<1%).

These porphyries, although generally massive, may be intensely sheared, hydrothermally altered and veined in places. The gold-bearing vein of the Area 2 showing is hosted by one such sheared, carbonatized and quartz-veined quartz-feldspar porphyry.

**Area 2 - Gold Showing:** This showing occurs southwest of Area 1 and is centred at L7+00W/1+50N. The country rock is a sheared and altered quartz feldspar porphyry which now appears as a quartz-sericite-carbonate schist.

The thickness of the main quartz vein ranges from 2 to 15 cm. The vein has been previously trenched for 35m. It contains disseminated pyrite, galena and native gold. A narrow zone of intensely sheared, altered, veined and pyritized wallrock envelops the vein. The vein in turn is within a much broader zone of shearing, alteration and sulphide mineralization as indicated on Map 2.

Assays on wallrock material returned low gold values. Samples of galena-bearing quartz vein material collected during the present program assayed in excess of 0.9 oz per ton gold in corroboration of previous sampling results.

The gold-bearing zone trends 090° degrees and is traceable as a zone of increased penetrative foliation development for 400-500m in an east-west direction between L5+00W to L10+00W, before extending under overburden in both directions.

#### 4.4 **Surface Rock Sampling**

Surface rock sampling during the present program included both re-sampling of known mineralized exposures and sampling of other sheared, altered, pyritized exposures. A total of 45 samples were collected and 26 were selected for analysis at Swastika Laboratories, Kirkland Lake. The samples selected include 6 grab samples from the Area 1 gold showing, 8 grab samples from the Area 2 gold showing with the remaining 7 samples from sheared, altered and pyritized zones that may host gold mineralization. The assays are listed in Table 1.

Analysis was conducted by fire assay utilizing one assay ton fusions with an atomic absorption finish.

**Area 1-Gold Showing:** C. Nadia in 1984, referring to pre-1984 exploration, described the quartz vein exposed in the trench as containing up to 1.0 oz per ton gold. A 1984 drill hole on this zone returned 0.839 oz per ton gold over 1.0 ft in corroboration of the above indications.

In 1987, Goldrock Resources Inc., collected and assayed 12 surface samples from the showing. The samples were from both the vein and the altered and flooded wall rocks (Table 2). The vein sample assayed 3,280 ppb Au and the silica wallrock assayed 1,150 ppb Au.

A total of 6 check samples were collected during the current program. These include 3 samples from the vein and 3 samples from the wallrock flooded with quartz-carbonate veinlets. The vein samples assayed up to 261 ppb Au. A sample of pyritized wallrock containing appreciable vein material returned 3,874 ppb Au.

All of these sampling results attest to a relatively erratic distribution of native gold in the quartz vein material.

**Area 2-Gold Showing:** D.O Baker in 1980 reported a surface value of 0.17 oz per ton gold over 7 feet from a quartz-carbonate vein in sheared and altered quartz-feldspar porphyry located immediately west of the actual area 2 quartz vein showing.

Subsequent drill hole R88-07 directly under this zone apparently returned only low gold values suggesting that the Baker value is erroneous.

J-DEX Mining and Exploration in 1984 collected 4 wallrock grab samples flooded with quartz-carbonate veinlets from the main quartz vein showing (Table 2). The best assays were 0.348 oz per ton gold and 0.466 oz per ton gold.

This showing was re-sampled in 1987 by Goldrock Resources Inc. A total of 11 grab samples were collected and an assay value of better than 0.291 oz per ton gold (>10,000 ppb) was obtained.

During the present program, 4 vein grab samples and 3 wallrock grab samples were collected and analysed. Two vein samples returned 0.605 oz per ton gold and 0.958 oz per ton gold respectively. The wallrock assay values ranged from 14 to 146 ppb Au.

No significant values were obtained from other sheared and altered zones which were sampled on the property.

## **4.5 Soil Geochemical Survey**

### **4.5.1 Glacial History**

The soils on the Raney Lake property are underlain by, and were developed on, extensive glacial deposits. An understanding of the glacial history of the region is therefore important in the interpretation of the soil geochemical results.

At least three till sheets are evident in the vicinity of Raney Township, representing at least two, and possibly three, distinct ice advance/retreat cycles. Regionally, the latest direction of ice flow is  $\approx$ az 170° to az 190°, but there appear to be numerous local fluctuations in ice advance directions. Pronounced glacial striae trending az 190° may be observed in the argillite outcrop on the north shore of Raney Lake in the south central portion of the present property.

Glacial gouging and grooving observed on stripped outcrop in Swayze Township, immediately southeast of Raney Township, indicate that the strongest ice advance was to the southwest at  $\approx$ az 200° to az 240°. Other advances trended to the southeast at  $\approx$ az 130° to az 140° (glacial striae) and  $\approx$ az 175° to az 195° (glacial grooving). The exact local

relationship between these advances is tenuous and not completely understood. The later advances were much less severe than the initial advance and served to rework existing tills and moderately erode bedrock. The relative erosive strength of the various advances is a subjective interpretation based on the depth and intensity of glacial gouging of outcrop surfaces in Raney and neighbouring townships.

The Raney Lake property itself is characterized by extensive glaciofluvial sand and silt cover which forms fluted plains, most notably in the east-central parts of the property. These deposits are well sorted, homogeneous and contain a minute proportion of heavy minerals. Cross bedding and relict streambeds were readily observed in sand pits and road cuts to the north and east of the property boundary. The sands and silts probably reflect an outwash plain developed during glacial retreat from the area.

The outwash material is whitish to greyish in colour and is at least one meter thick over the eastern half of the property, and was observed in a few roadcuts to be up to 3 metres thick. This material is an extremely poor geochemical sampling medium and has resulted in extremely low background, threshold and anomalous gold-in-soils values. Nevertheless, the survey has accurately identified the Area 2 gold showing, and has possibly delineated a gold anomalous feldspar porphyry in the north central part of the property.

Pockets or areas of oxidized, brownish pebbly to cobbly till exist in discrete areas on the property, most frequently on the down-ice side of topographic ridges and on the flanks of drainage valleys. These tills contained granitic and felsic volcanic clasts with minor additions of mafic material. Phlogopite was seen in a number of locations, sometimes accounting for up to 2% of the till. This is exotic ablationary material that was deposited after the sand/silt deposits and frequently overlies this material. All the till material generally shows the same low levels of gold as that found in the silts and sands sampled elsewhere. It is suggested that very little locally derived till exists on the property.

#### **4.5.2 Sampling and Assaying**

The 1993 soil geochemical program consisted of the collection of about 1633 overburden samples covering 35.5 line-kilometers of the 45 line-kilometer grid. All soil samples were sieved to -80 mesh and analyzed for gold using an aqua regia dissolution followed by an atomic absorption finish. Results are presented on Map 2.

The samples were collected along previously cut grid lines between L14W and L5E. From L6E to L14E, older cut lines were utilized to the south of the baseline, whereas compass and hip chains were utilized for positioning north of the baseline. West of L14W, compass and hip chains were utilized from the tieline at 10+00N proceeding south to the southerly claim line. Over the known gold showings, and in the area of most intense shearing and alteration, a 12.5 metre sampling spacing was utilized (between L12W and L1W south of Duck Lake). Elsewhere, a 25 metre sample spacing was

utilized. Lines were spaced at 100 metres between L12W and L14E, but were expanded to 200 metres outside of this central area.

Peat samples were not collected from swampy and low areas to prevent the possibility of hydromorphic-organic contamination and the inherent interpretation problems.

Samples were collected with a posthole-type soil auger at depths generally varying from 0.3 - 0.5 m depending on local overburden conditions. At least 250 g of material was collected at each site. A brief note was made as to sample type. The sample was placed in kraft bags, dried and sent to Swastika Assay Laboratories in Swastika, Ontario for analysis.

Considering the uniformly low gold values returned from the soil samples, no attempt was made to determine analytical precision, since most values were near the detection limits for this type of analysis.

#### **4.5.3 Results**

Two zones of geochemical interest have been outlined by the soil sampling program per Map 2. These zones show 10 ppb gold-in-soils concentrations relative to a 2 to 5 ppb background.

The northern zone, on lines 4W, 5W and 6W at about 7+75N is parallel to the underlying bedrock trend. This zone probably represents a gold-enriched feldspar porphyry which is interfingering with mafic tuffs and flows. A non-mineralized outcrop of these rock types is observed along strike from the geochemical area-of-interest, on L7W. No outcrop was observed directly in the area-of-interest, and any further exploration must utilize geophysical surveying and/or overburden drilling to assess the anomaly.

The second geochemical area-of-interest is directly over and about the Area 2 gold showing. Numerous elevated gold-in-soils values were returned from samples taken immediately along the assumed extension of the Area 2 showing. The sample medium was an oxidised sandy silt. Sample depths were shallow since the feldspar porphyry is a resistant lithology and hence, forms a moderate topographic high.

No anomalous response was encountered in the vicinity of the Area 1 showing. This is most likely a result of the very poor geochemical sampling medium in this area namely the whitish silt/sand. No sampling over the critical east projection of this gold zone was possible because of the swamp cover.

A number of single point "anomalies" are scattered over the property, but these are most likely an expression of the variations in quality of the sample material, rather than a reflection of the increased bedrock gold tenors.

## **5.0 DISCUSSION**

Geological mapping has shown that the east and west portions of the property are occupied by unaltered, relatively undeformed mafic volcanics and volcanoclastics with minor interflow sediments and porphyries. The central area of the property is occupied by a restricted basin which was filled with mainly intermediate ash and lapilli tuffs, minor argillite and greywacke and intruded by feldspar porphyries.

This central basin appears to have taken up much of the strain imposed on the rocks of the area, with foliation development in the surrounding volcanics restricted to minor foliation along contacts. Several areas of intense penetrative foliation are observed in the basinal pyroclastics and associated intrusives. It is these areas of high strain and foliation development and alteration that host the two auriferous quartz veins.

The deformational and alteration signatures about the Area 1 and Area 2 showings differ somewhat.

The Area 1 showing displays a moderate penetrative foliation with minor chlorite along foliation planes in a intermediate/mafic tuff or flow. The quartz vein was emplaced into a brittle crack developed sub-parallel to foliation. The wall rocks about the quartz vein behaved in a similar manner, and numerous tension cracks lead from the main vein into the wall rocks. These short tension fractures increased the secondary permeability of the wall rocks, and allowed a greater degree of alteration of the rocks than would otherwise be expected. The alteration is characterised by a greater amount of chlorite, carbonate bleaching of the mafics, and silica flooding. Minor amounts of sulphides, mostly pyrite with trace amounts of chalcopyrite, are observed both in the altered wallrock and along the quartz vein-wallrock contacts. These sulphidized areas seem to have higher gold values associated with them.

The Area 2 showing displays intense penetrative foliation development with intense carbonatization along the foliation planes. The quartz vein here is parallel to foliation. No tension fractures are observed in the feldspar porphyry which hosts the vein. Rather a higher degree of ductile shear is noted in the Area 2 showing as compared to the Area 1 showing. A great deal of alteration is present in the host feldspar porphyry, commonly expressed as a sericite-carbonate development which defines the foliation. Up to 1% pyrite was noted in the surrounding porphyry wall rock, with lenses of up to 5% pyrite.

The Area 2 vein also displays a slightly different mineralogy than the Area 1 vein. Galena, and possibly a trace of sphalerite, occur with pyrite and trace amounts of chalcopyrite in quartz vein material from Area 2. Only pyrite and chalcopyrite were noted in vein material from Area 1. The Area 2 vein is predominately bull quartz with small, localized patches of iron carbonate or dolomite, while the Area 1 vein displays much more carbonate, especially in tension veins leading off the main vein.

While the veins were likely emplaced at about the same time, the fluids which were responsible for their development were either somewhat different in composition, or reacted differently with the host rocks.

The Area 1 vein and the associated gold-bearing alteration envelope, seem to increase in grade and size to the east and possibly to depth. The eastward extension has not been tested beyond the confines of the trench as the zone extends out under a low swampy area. This area to the east therefore poses an excellent target since the mineralizing system may open in this direction, and the secondary permeability may have allowed a greater circulation of gold-bearing solutions. Unfortunately, the IP coverage stops to the east of the Area 1 trench, and the IP-1 anomaly remains open to the east. This critical area should be surveyed by IP/resistivity methods in order to test for any eastward extension of the mineralization.

The Area 2 showing is inferred by geochemistry and geophysics to extend over at least 500 metres of strike length. This entire structure is, for all intents and purposes, untested by drilling. It is possible that there may be some analogies regarding the Area 2 geology and mineralization to the Pearl Lake Porphyry (and associated gold deposits?) in the Timmins gold camp.

Soil geochemistry has proved disappointing in defining gold-bearing areas on the property, given the poor sampling medium. Other gold zones may therefore exist beneath overburden-covered areas.

The known mineralized quartz veins on the property have no discrete geophysical responses in the surveys conducted to date. The altered and pyrite mineralized envelopes surrounding the veins, however, do have a discernible IP response. VLF-EM responses over the alteration envelopes are variable, but, where present, reflect associated conductive material. The Area 2 showing, for example, is well-defined by surface VLF-EM and IP surveys. The Area 1 showing, on the other hand, does not seem to respond well to EM methods, but does show an IP signature immediately north of the trench. The questionable validity of the magnetic data set precludes a confident assessment of the magnetic signature over the known mineralized zones.

As direct detection of the mineralized quartz veins is not possible, the application of geophysics to any further exploration on the property should be directed towards the delineation of the host alteration envelopes. Test magnetic surveys over the known mineralized horizons would be useful to determine if a magnetic signature exists over the showings.

The westward extension of both the Area 1 and Area 2 trenches are amenable to mechanized stripping, although the amount of overburden west of Area 1 is unknown. The best method of assessing the entire feldspar porphyry hosting the Area 2 mineralization, and the only method of assessing any eastward extension of the Area 1 mineralization, is diamond drilling.



## **6.0 CONCLUSIONS AND RECOMMENDATIONS**

It is concluded that further work is warranted on the Raney Lake property. There has been no definitive exploration along strike or to depth on the two known gold zones. The Area 1 showing was drilled for only 45 metres of strike length, and the Area 2 drilling was largely a technical failure.

Results of the present program, in the context of previous exploration, lead us to the conclusion that potential exists for discovering ore grade gold concentrations on the property in order of priority as follows:

- i) the overall zone of shearing alteration, quartz veining and mineralization in the Area 1 gold showing, specifically to the east of the existing trench and at depth, where the zone appears to widen and strengthen.
- ii) in quartz veins and sericite-carbonate alteration zones within a sheared feldspar porphyry hosting the Area 2 mineralization. The entire porphyry should be evaluated for its ore-making possibilities.

A follow-up program encompassing a limited amount of IP surveying and diamond drilling is recommended. This should take the following form:

- i) IP surveying over a limited grid immediately east of the Area 1 gold showing, and possibly to the west of the existing IP coverage over Area 2
- ii) diamond drilling to test the eastward and down dip extension of the Area 1 gold showing
- iii) diamond drilling to test the overall Area 2 gold showing and host feldspar porphyry

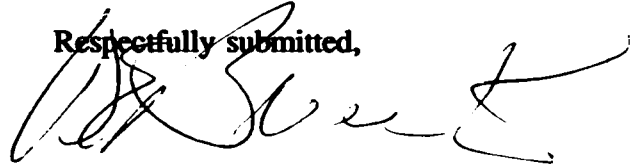
A generalized budget is as follows:

Linecutting and IP survey allowance	\$20,000
Diamond drilling	
2500 ft @ \$40/ft all incl. mob-demob, geologist, assays, etc.	100,000
(specific drill collar recommendations will be presented upon review of the new IP results and further review of the existing data)	
Reporting, supervision, contingency	<u>10,000</u>
<b>Total</b>	<b>\$130,000</b>

Further work would be contingent on the results of the above relative to our exploration models for the Raney Township property.

*Deal # 2-14947*

Respectfully submitted,



Joseph A. Hamilton, M.Sc.



Jonathan Rudd, P.Eng.



Aung Myint Thein, M.Sc.(A)








## REFERENCES

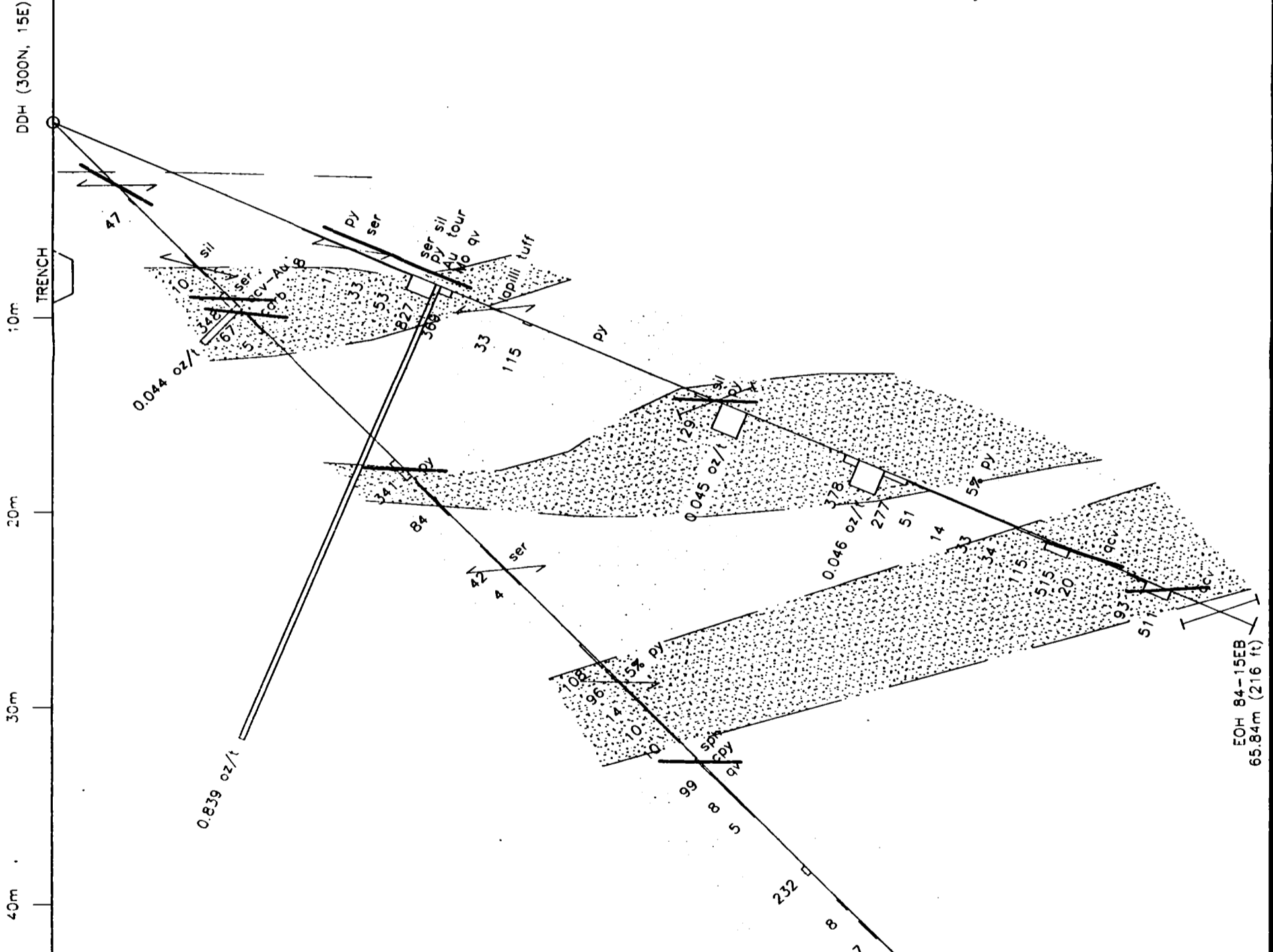
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5. **Hodgson, C.J. and MacGeehan, P.J. (1982)  
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p. 1-36.**
7. **Thurston, P.C., Siragusa, G.M., and Sage, R.P. (1977)  
Geology of the Chapleau Area, Districts of Algoma, Sudbury, Cochrane; Ontario  
Div. of Mines, GR157, 293 p. Accompanied by Maps 2351 and 2352, scale  
1:250,000 and Map 2221, Scale 1 inch to 4 miles (1:253,440).**

**APPENDIX 1**

**Drill Cross Sections, Area 1**

**LEGEND**

-  Fault Attitude
-  Quartz and/or Carbonate Veins (mainly centimeter scale)
-  Contact Attitude
-  Fracture Attitude
- Au Visible Gold
- py Pyrite
- mo Molybdenum
- spn Sphalerite
- ser Sericite
- tour Tourmaline
- ccrb Carbonatization
- sil Silicification
- qv Quartz Vein
- qcv Quartz Carbonate Vein
- 413 Gold Assay in ppb
-  Top Facing Direction
-  Moderate Alteration Zone
-  Intense Alteration Zone



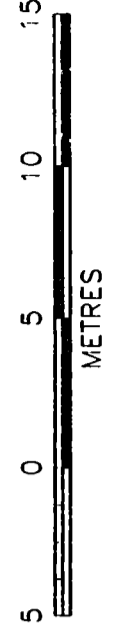
**CREE LAKE RESOURCES CORP.**

RANEY LAKE PROPERTY  
RANEY TOWNSHIP  
SECTION DD 300N, 15E  
1984 DRILL PROGRAM

PROJECT NO: C-1502	BY: J.R., J.H., A.M.T.
SCALE: AS SHOWN	DRAWN: MPH TORONTO
MAP NO: 1502SECT	DATE: NOVEMBER, 1993



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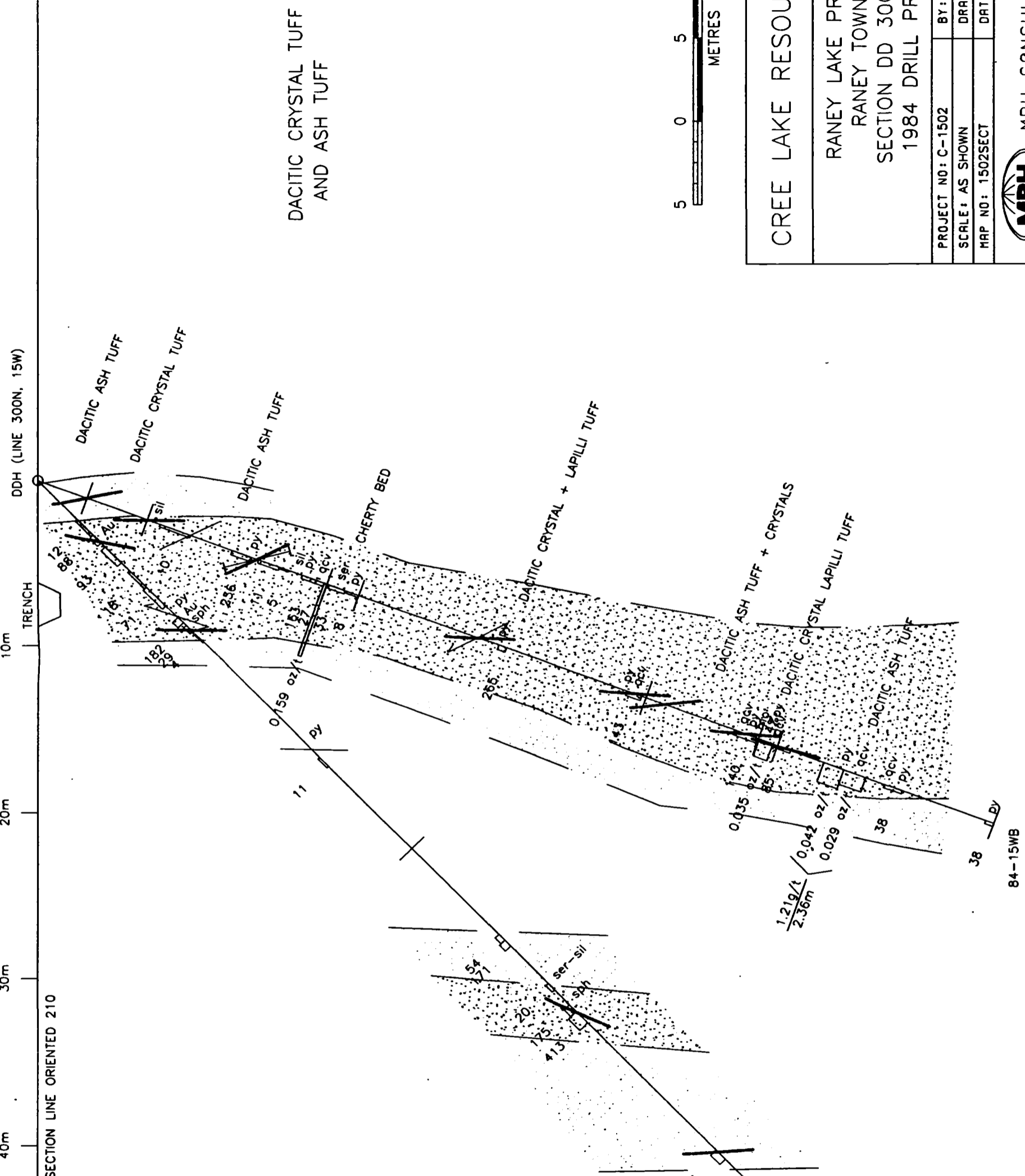


EOH 84-15EA  
74.67m (245 ft)

EOH 84-15EB  
65.84m (216 ft)

## LEGEND

	Foliation Altitude
	Quartz and/or Carbonate Veins (mainly centimeter scale)
	Contact Altitude
	Fracture Altitude
Au	Visible Gold
py	Pyrite
mo	Molybdenum
sph	Sphalerite
ser	Sericite
tour	Tourmaline
carb	Carbonatization
sil	Silicification
qv	Quartz Vein
qcv	Quartz Carbonate Vein
413	Gold Assay in ppb
	Top Facing Direction
	Moderate Alteration Zone
	Intense Alteration Zone



**CREE LAKE RESOURCES CORP.**

RANEY LAKE PROPERTY  
RANEY TOWNSHIP  
SECTION DD 300N, 15W  
1984 DRILL PROGRAM

PROJECT NO: C-1502	BY: J.R., J.H., A.M.T.
SCALE: AS SHOWN	DRAWN: MPH TORONTO
MAP NO: 1502SECT	DATE: NOVEMBER, 1993

MPH CONSULTING LIMITED

# LEGEND

Foliation Attitude

Quartz and/or Carbonate Veins  
(mainly centimeter scale)

Contact Attitude

Fracture Attitude

Au Visible Gold

Py Pyrite

Mo Molybdenum

Sph Sphalerite

Ser Sericite

Tour Tourmaline

carb Carbonatization

sil Silicification

qv Quartz Vein

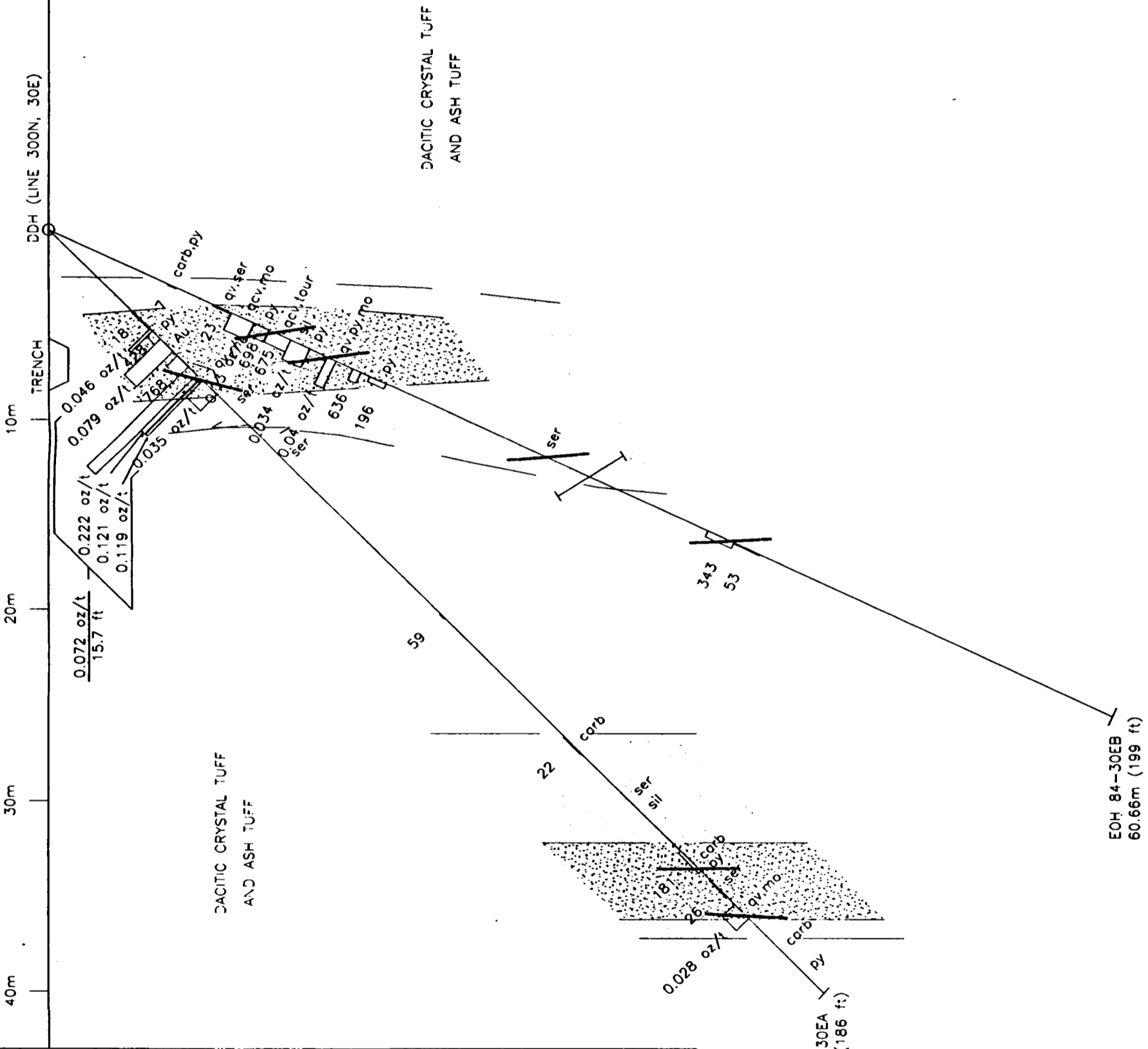
qcv Quartz Carbonate Vein

413 Gold Assay in ppb

Top Facing Direction

Moderate Alteration Zone

Intense Alteration Zone



CREE LAKE RESOURCES CORP.

RANEY LAKE PROPERTY  
RANEY TOWNSHIP  
SECTION DD 300N, 30E  
1984 DRILL PROGRAM

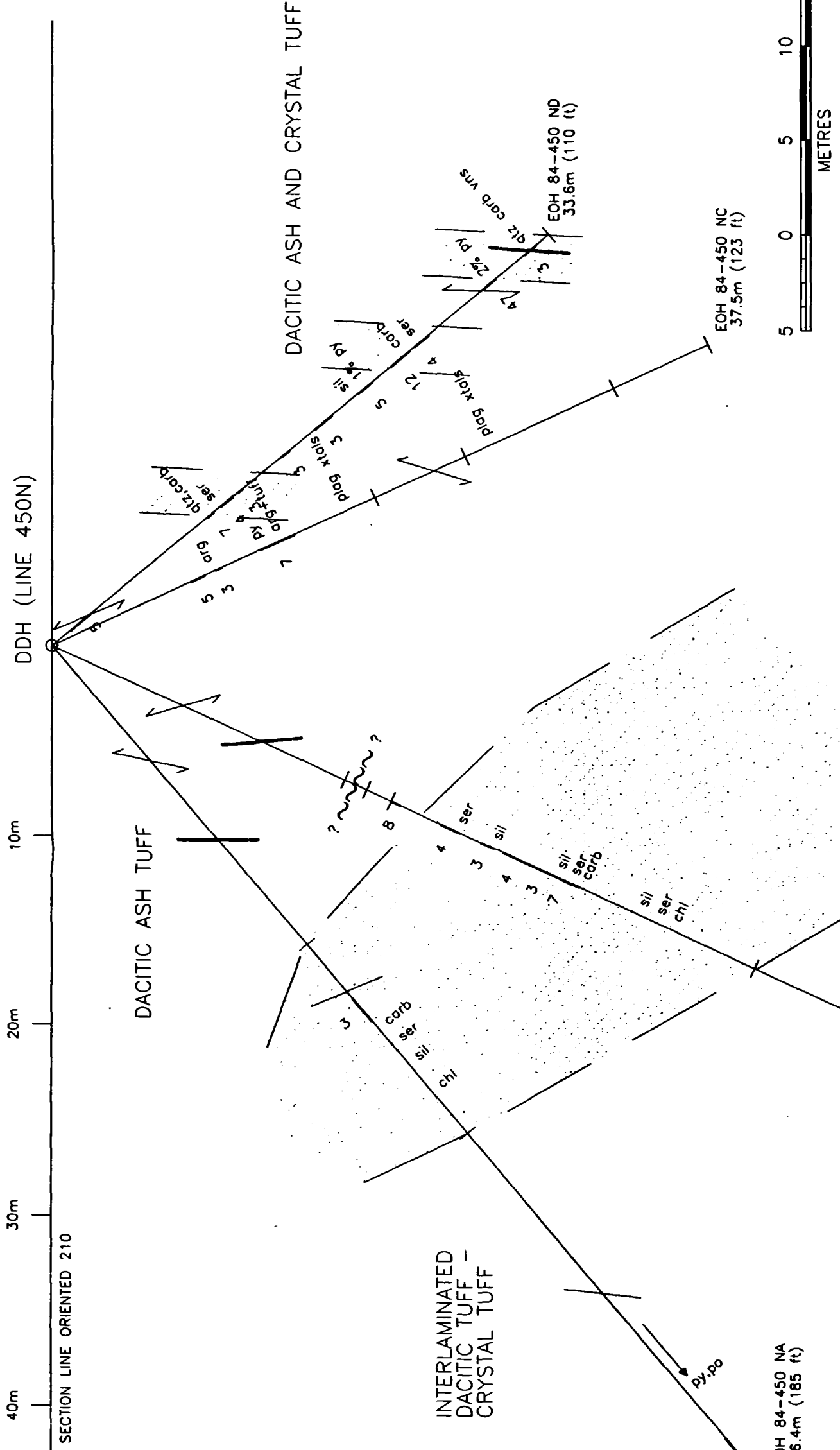
PROJECT NO: C-1502 BY: J.R., J.H., A.M.T.  
SCALE: AS SHOWN DRAWN: MPH TORONTO  
MAP NO: 1502SECT DATE: NOVEMBER, 1993



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### LEGEND

	Foliation Attitude
	Quartz and/or Carbonate Veins (mainly centimeter scale)
	Contact Attitude
	Fracture Attitude
Au	Visible Gold
py	Pyrite
mo	Molybdenum
sph	Sphalerite
ser	Sericite
tour	Tourmaline
carb	Carbonatization
sil	Silicification
qv	Quartz Vein
qcv	Quartz Carbonate Vein
413	Gold Assay in ppb
	Top Facing Direction
	Moderate Alteration Zone
	Intense Alteration Zone



**CREE LAKE RESOURCES CORP.**

RANEY LAKE PROPERTY  
RANEY TOWNSHIP  
SECTION DD 450N  
1984 DRILL PROGRAM

PROJECT NO: C-1502	BY: J.R., J.H., A.M.T.
SCALE: AS SHOWN	DRAWN: MPH TORONTO
MAP NO: 1502SECT	DATE: NOVEMBER, 1993

MPH CONSULTING LIMITED



**APPENDIX 2**  
**Assay Certificates**



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## Geochemical Analysis Certificate

3W-2625-RG1

Company: **M.P.H. CONSULTING**  
Project: **C-1502**  
Attn: **W. Brereton**

Date: **OCT-07-93**

We hereby certify the following Geochemical Analysis of 10 ROCK samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au check PPB
8001	720	
8002	7	
8051	76	
8052	470	
8053	32846	33600
8054	65	
8055	51	
93-RL-01	19	
93-RL-02	261	
93-RL-03	3874	3189

One assay ton used

Certified by



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## Geochemical Analysis Certificate

3W-2667-RG1


Company: **MPH CONSULTING**  
Project: **C-1502**  
Attn: **Mr Thein/W Brereton**

Date: **OCT-18-93**

We hereby certify the following Geochemical Analysis of 18 ROCK samples submitted OCT-13-93 by W Brereton.

Sample Number	Au PPB	Au Ck PPB	Au 2nd PPB	Au 2n Ck PPB
8003	310			
8004	146			
8005	14			
8006	20743	22629	16800	16320
8007	26			
8008	14			
8056	2			
8057	17			
8058	0			
8059	2	3		
8060	0			
8061	3			
8107	14			
8108	12			
8118	5			
8123	36			
8124	5			
8125	1166	960		

Gold assayed using one assay ton portion.

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## Geochemical Analysis Certificate

3W-2752-SG1

Company: **M.P.H. CONSULTING LTD.**  
Project: **C-1502**  
Attn: **BILL BRERETON**

Date: NOV-02-93

We hereby certify the following Geochemical Analysis of 8 SOIL samples submitted OCT-23-93 by .

Sample Number	Au PPB	Au Ck PPB
4+70W-2+62.5N	3	3
4+70W-2+75N	3	
4+70W-2+87.5N	2	
4+70W-3+00N	2	
4+70W-3+12.5N	2	
4+70W-3+25N	2	
4+70W-3+37.5N	3	
4+70W-3+50N	5	3

Certified by *D. S. Chato*



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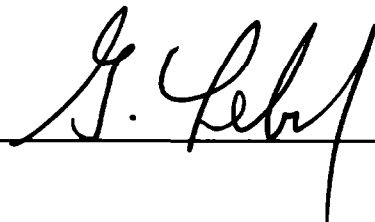
3W-2714-SG1

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **BILL BRERETON**

Date: **NOV-04-93**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au PPB
L3W-4+50N	5	5
L3W-4+75N	3	
L3W-5+00N	3	
L3W-5+25N	2	
L3W-5+50N	0	
L3W-5+75N	3	
L3W-6+00N	3	
L3W-6+25N	3	
L3W-6+50N	3	
L3W-7+00N	3	
L3W-7+25N	NIL	
L3W-7+50N	2	
L3W-7+75N	3	
L3W-8+00N	NIL	
L3W-8+25N	3	
L3W-8+50N	3	
L3W-8+75N	2	
L3W-9+00N	3	
L3W-9+25N	5	7
L3W-9+50N	3	
L3W-9+75N	9	10
L4W-6+25N	3	
L4W-7+00N	3	
L4W-7+25N	3	
L4W-7+50N	3	
L4W-7+75N	3	
L4W-8+00N	3	
L4W-8+25N	9	9
L4W-8+50N	3	
L4W-8+75N	3	

Certified by 

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## Geochemical Analysis Certificate


3W-2714-SG1

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **BILL BRERETON**

Date: NOV-04-93

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au PPB
L4W-9+25N	5	5
L4W-9+50N	3	
L4W-9+75N	3	
L4W-10+00N	2	
L4E-0+25N	2	
L4E-0+50N	5	7
L4E-0+75N	3	
L4E-1+00N	3	
L4E-1+25N	2	
L4E-1+50N	3	
L4E-1+75N	2	
L4E-2+00N	5	
L4E-2+25N	5	
L4E-2+50N	3	
L4E-2+75N	2	3
L4E-3+00N	3	
L4E-3+25N	2	
L4E-3+50N	2	
L4E-3+75N	2	
L4E-4+00N	0	
L4E-4+25N	0	
L4E-4+50N	2	
L4E-4+75N	2	2
L4E-5+00N	0	
L4E-5+25N	2	
L4E-5+50N	0	

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3W-2766-SG1

Date: NOV-15-93

## Geochemical Analysis Certificate

Company: **MPH CONSULTING LTD**  
Project: **C-1502**  
Attn: **W Brereton**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L22E-8+25N	2	
L22E-8+50N	0	
L22E-8+75N	0	
L22E-9+00N	2	
L22E-9+25N	2	
L22E-9+50N	2	
L22E-9+75N	3	2
L22E-0+00S	2	
L22E-0+25S	2	
L22E-0+50S	2	
L24E-0+25S	3	
L24E-0+50S	0	2
L24E-0+75S	2	
L24E-1+00S	2	
L24E-1+25S	0	
L24E-1+50S	3	
L24E-1+75S	2	
L24E-2+00S	0	
L24E-2+25S	3	
L24E-2+50S	2	
L24E-2+75S	2	
L24E-3+00S	2	
L24E-3+25S	3	
L24E-3+50S	2	
L24E-3+75S	2	
L24E-4+00S	0	
L24E-0+00N	2	
L24E-0+25N	3	3
L24E-0+50N	2	
L24E-0+75N	2	

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Date: NOV-15-93

## Geochemical Analysis Certificate

Company: **MPH CONSULTING LTD**  
Project: **C-1502**  
Attn: **W Brereton**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L24E-1+00N	3	
L24E-1+25N	2	
L24E-1+75N	2	
L24E-2+00N	3	
L24E-2+25N	2	0
L24E-2+50N	2	
L24E-2+75N	3	
L24E-3+50N	2	
L24E-4+25N	2	
L24E-4+50N	0	
L24E-6+00N	3	
L24E-6+25N	3	
L24E-6+75N	2	
L24E-7+25N	2	
L24E-7+75N	3	
L24E-8+25N	3	
L24E-8+50N	2	
L24E-8+75N	3	
L24E-9+25N	2	
L24E-9+50N	3	
L24E-9+75N	5	5
L26E-0+00S	3	
L26E-0+25S	0	
L26E-0+50S	3	
L26E-0+75S	3	
L26E-0+50N	0	

Certified by \_\_\_\_\_

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## Geochemical Analysis Certificate

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Company: **MPH CONSULTING LTD.**

Date: NOV-15-93

Project: **C-1502**

Attn: **W.BRERETON**

We hereby certify the following Geochemical Analysis of 56 soil samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L20E-7+75N	3	5
L20E-8+25N	0	
L20E-8+50N	3	
L20E-8+75N	2	
L20E-9+00N	2	
L20E-9+25N	0	
L20E-9+50N	3	
L20E-9+75N	5	
L20E-10+00N	3	
L20E-10+25N	5	
L20E-10+50N	2	
L20E-10+75N	0	
L20E-11+00N	3	
L20E-11+25N	3	
L22E-1+25N	2	
L22E-1+75N	3	
L22E-2+00N	3	
L22E-4+00N	0	
L22E-5+25N	2	
L22E-5+75N	3	
L22E-6+25N	2	
L22E-6+50N	2	
L22E-6+75N	0	
L22E-7+00N	2	
L22E-7+75N	5	5
L22E-8+00N	3	

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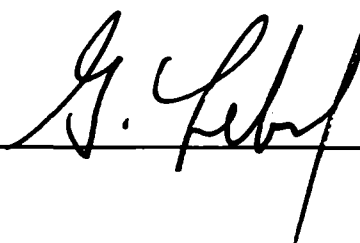
Date: NOV-15-93

Project: **C-1502**

Attn: **W.BRERETON**

We hereby certify the following Geochemical Analysis of 56 soil samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L18E-11+00N	0	
L18E-11+25N	3	
L18E-11+50N	2	
L18E-11+75N	3	
L20E-BL0-0+00S	2	
L20E-0+25S	0	
L20E-0+50S	5	
L20E-0+75S	3	
L20E-1+00S	5	
L20E-1+50S	5	
L20E-2+00S	0	
L20E-3+50S	5	
L20E-0+25N	3	
L20E-0+50N	2	
L20E-0+75N	2	
L20E-1+00N	3	
L20E-1+25N	3	3
L20E-1+50N	5	
L20E-1+75N	3	
L20E-2+25N	3	
L20E-2+50N	5	
L20E-2+75N	3	
L20E-3+00N	2	
L20E-3+25N	3	
L20E-5+50N	5	
L20E-6+25N	2	
L20E-6+75N	5	
L20E-7+00N	5	
L20E-7+25N	2	
L20E-7+50N	3	

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## Geochemical Analysis Certificate

3W-2767-SG1

Company: **MPH CONSULTING LTD**  
Project: **C-1502**  
Attn: **W Brereton**

Date: NOV-15-93

We hereby certify the following Geochemical Analysis of 40 SOILS samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L26E-0+75N	2	
L26E-1+00N	2	
L26E-1+25N	0	
L26E-2+00N	0	2
L26E-2+25N	2	
L26E-4+25N	0	
L26E-4+50N	2	
L26E-4+75N	3	
L26E-5+00N	2	
L26E-5+25N	2	
L26E-5+50N	2	
L26E-5+75N	0	
L26E-6+00N	2	
L26E-6+25N	2	2
L26E-6+50N	0	
L26E-6+75N	2	
L26E-7+00N	3	
L26E-7+25N	3	
L26E-7+50N	2	
L26E-7+75N	0	
L26E-8+25N	7	7
L26E-8+50N	3	
L26E-8+75N	2	
L26E-9+00N	2	
L26E-9+25N	3	
L26E-9+50N	0	
L26E-9+75N	3	
L26E-10+00N	2	
L14W-0+25S	3	
L14W-0+50S	2	

Certified by *Dennis Chate*



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Page 2 of 2

3W-2767-SG1

Date: NOV-15-93

## Geochemical Analysis Certificate

Company: **MPH CONSULTING LTD**  
Project: **C-1502**  
Attn: **W Brereton**

We hereby certify the following Geochemical Analysis of 40 SOILS samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L14W-0+75S	0	
ECL-1+50S	0	
ECL-1+75S	0	
ECL-2+00S	2	
ECL-2+25S	0	
ECL-2+50S	0	
ECL-2+75S	2	
ECL-3+00S	2	
ECL-3+25S	3	
ECL-3+50S	2	2

Certified by *Denis Chate*



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Page 1 of 2

3W-2718-SG1


Date: NOV-09-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING**  
Project: **C-1502**  
Attn: **W. Brereton**

We hereby certify the following Geochemical Analysis of 56 SOILS samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L7E-8+75N	0	
L7E-9+00N	0	
L7E-9+25N	2	2
L7E-9+50N	0	
L7E-9+75N	0	
L7E-10+00N	2	
L7E-10+25N	0	
L7E-10+50N	3	
L7E-10+75N	3	
L7E-11+00N	3	
L7E-11+25N	3	
L8E-0+75S	2	
L8E-1+00S	3	
L8E-1+25S	2	
L8E-2+25S	0	
L8E-2+50S	0	
L8E-4+25N	0	
L8E-4+50N	0	
L8E-4+75N	0	
L8E-5+25N	0	
L8E-5+50N	2	
L8E-5+75N	0	
L8E-6+75N	5	3
L8E-7+00N	2	
L8E-7+25N	2	
L8E-7+50N	3	
L8E-7+75N	0	
L8E-8+00N	0	
L8E-8+25N	0	
L8E-8+50N	0	

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## Geochemical Analysis Certificate

3W-2718-SG1

Company: **M.P.H. CONSULTING**

Date: NOV-09-93

Project: **C-1502**

Attn: **W. Brereton**

We hereby certify the following Geochemical Analysis of 56 SOILS samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L8E-8+75N	3	
L8E-9+00N	3	
L8E-9+25N	0	
L8E-9+50N	3	
L8E-9+75N	3	
L8E-10+00N	0	
L8E-10+25N	0	
L8E-10+75N	0	
L8E-11+00N	0	
L8E-11+25N	3	
L8E-11+50N	0	
L8W-8+25N	0	
L8W-8+50N	0	0
L8W-8+75N	0	
L8W-9+00N	3	
L8W-9+25N	0	
L8W-9+50N	0	
L8W-9+75N	0	
L8W-10+00N	0	
L9E-0+50S	0	
L9E-0+75S	0	
L9E-1+00S	0	
L9E-1+50S	0	
L9E-1+75S	0	
L9E-2+00S	0	
L9E-2+25S	2	

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## Geochemical Analysis Certificate


3W-2758-SG1

Company: **M.P.H. CONSULTING LTD.**  
Project: **C-1502**  
Attn: **W. BRERETON**

Date: **NOV-09-93**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L9E-2+50S	0	
L9E-2+75S	0	
L9E-3+00S	0	
L9E-3+25S	0	
L9E-3+50S	0	
L9W-6+00N	0	
L9W-6+25N	0	
L9W-6+50N	0	
L9W-6+75N	0	
L9W-7+00N	0	
L9W-7+25N	0	
L9W-7+50N	0	
L9W-7+75N	2	
L9W-8+00N	0	
L9W-8+25N	0	
L9W-8+75N	0	2
L9W-9+00N	0	
L9W-9+25N	0	
L9W-9+50N	0	
L9W-9+75N	2	
L9W-10+00N	0	
L10W-3+75N	0	
L10W-4+00N	0	
L10W-4+25N	3	3
L10W-4+50N	0	
L10W-4+75N	0	
L10W-5+00N	0	
L10W-5+25N	0	
L10W-5+50N	2	
L10W-5+75N	0	

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## Geochemical Analysis Certificate

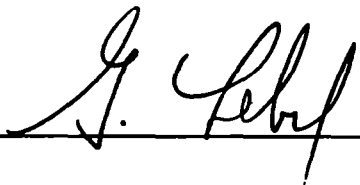
3W-2758-SG1

Company: **M.P.H. CONSULTING LTD.**  
Project: **C-1502**  
Attn: **W. BRERETON**

Date: **NOV-09-93**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L10W-6+00N	0	
L10W-6+75N	2	0
L10W-7+00N	0	
L10W-7+25N	0	
L10W-7+50N	0	
L10W-7+75N	0	
L10W-8+00N	0	
L10W-8+25N	2	
L10W-8+50N	2	
L10W-8+75N	0	
L10W-9+00N	0	
L10W-9+25N	2	
L10W-9+50N	0	
L10W-9+75N	0	
L10W-10+00N	3	2
L11W-3+50N	0	
L11W-3+75N	0	
L11W-4+00N	0	
L11W-4+25N	0	
L11W-4+50N	0	
L11W-4+75N	0	
L11W-5+00N	0	
L11W-5+25N	2	0
L11W-5+50N	0	
L11W-5+75N	0	
L11W-6+00N	0	

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Page 1 of 2

3W-2759-SG1

Date: NOV-09-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD.**  
Project: **C-1502**  
Attn: **W. BRERETON**

We hereby certify the following Geochemical Analysis of 61 SOIL samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L1 W-6+25N	2	
L1 W-6+50N	0	
L1 W-6+75N	3	
L1 W-7+00N	5	2
L1 W-7+25N	5	
L1 W-7+50N	3	
L14E-0+25S	0	
L14E-0+50S	0	
L14E-0+75S	0	
L14E-1+00S	2	
L14E-2+25S	5	
L14E-3+25S	3	
L14E-3+50S	3	5
L14E-4+50N	0	
L14E-4+75N	0	
L14E-5+00N	0	
L14E-5+25N	3	
L14E-5+50N	3	
L14E-5+75N	3	
L14E-6+00N	2	
L14E-6+25N	5	3
L14E-6+50N	0	
L14E-8+50N	0	
L14E-8+75N	0	
L14E-10+25N	0	
L14E-10+50N	0	
L14E-10+75N	0	
L14E-11+00N	0	
L14E-11+50N	0	
L14E-11+82N	0	

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3W-2759-SG1

Date: NOV-09-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD.**  
Project: **C-1502**  
Attn: **W. BRERETON**

We hereby certify the following Geochemical Analysis of 61 SOIL samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L16E-0+25N	0	
L16E-0+50N	0	
L16E-0+75N	0	
L16E-1+00N	0	
L16E-1+25N	0	2
L16E-1+50N	0	
L16E-1+75N	0	
L16E-2+00N	0	
L16E-2+75N	0	
L16E-3+00N	0	
L16E-3+25N	0	
L16E-4+25N	0	
L16E-4+50N	0	
L16E-4+75N	0	
L16E-5+25N	0	
L16E-5+50N	0	
L16E-5+75N	2	
L16E-6+00N	0	
L16E-6+25N	2	
L16E-6+50N	0	
L16E-7+00N	0	
L16E-8+00N	2	
L16E-8+25N	3	
L16E-8+50N	0	
L16E-9+00N	3	
L16E-9+25N	3	
L14E-6+75N	2	
L14E-7+00N	0	
L14E-7+25N	0	
L14E-7+50N	0	
L16E-8+75N	3	5

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3W-2760-SG1

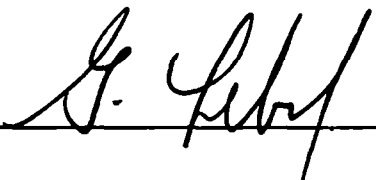
Date: NOV-09-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD.**  
Project: **C-1502**  
Attn: **W. BRERETON**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L16E-9+50N	0	
L16E-10+00N	2	
L16E-10+25N	3	
L16E-10+50N	3	
L16E-10+75N	0	
L16E-11+00N	3	
L16E-0+00S	2	
L16E-0+25S	3	
L16E-0+50S	0	
L16E-2+50S	2	2
L16E-2+75S	0	
L16E-3+00S	3	
L16E-3+25S	2	
L16E-3+50S	3	
L18E-0+50S	3	
L18E-0+75S	3	
L18E-1+00S	0	
L18E-1+25S	2	
L18E-2+25S	2	
L18E-2+50S	2	
L18E-2+75S	3	
L18E-3+00S	2	
L18E-3+25S	3	
L18E-3+50S	3	
L18E-3+75S	2	
L18E-4+00S	3	
L18E-0+50N	2	3
L18E-1+75N	0	
L18E-3+00N	2	
L18E-3+25N	0	

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## Geochemical Analysis Certificate

3W-2760-SG1

Company: **M.P.H. CONSULTING LTD.**  
Project: **C-1502**  
Attn: **W. BRERETON**

Date: NOV-09-93

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L18E-3+50N	0	
L18E-3+75N	2	
L18E-4+00N	2	
L18E-4+25N	3	
L18E-4+50N	0	
L18E-4+75N	0	
L18E-5+00N	2	
L18E-5+25N	2	
L18E-5+50N	2	
L18E-5+75N	2	
L18E-6+00N	3	
L18E-6+75N	0	
L18E-7+00N	3	
L18E-7+25N	2	
L18E-7+50N	2	
L18E-7+75N	3	
L18E-8+25N	0	
L18E-8+50N	2	
L18E-8+75N	2	
L18E-9+00N	3	
L18E-9+25N	5	5
L18E-9+50N	3	
L18E-9+75N	5	
L18E-10+00N	2	
L18E-10+50N	3	
L18E-10+75N	0	

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3W-2715-SG1

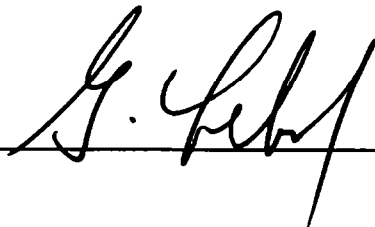
Date: NOV-05-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **BILL BRERETON**

We hereby certify the following Geochemical Analysis of 58 SOIL samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L4E-5+75N	3	
L4E-6+00N	3	
L4E-6+25N	2	
L4E-6+50N	3	
L4E-6+75N	2	
L5W-6+25N	2	
L5W-6+50N	7	7
L5W-6+75N	3	
L5W-7+00N	3	3
L5W-7+25N	2	
L5W-7+75N	2	
L5W-8+00N	5	
L5W-8+25N	3	
L5W-8+50N	9	12
L5W-8+75N	3	
L5W-9+00N	3	
L5W-9+25N	3	
L5W-9+50N	5	3
L5W-9+75N	5	5
L6E-0+00N	7	
L6E-0+25N	2	
L6E-0+50N	3	
L6E-0+75N	2	
L6E-1+00N	10	10
L6E-1+25N	3	
L6E-1+50N	2	
L6E-1+75N	3	5
L6E-2+00N	3	
L6E-2+25N	0	
L6E-2+50N	5	

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3W-2715-SG1

Date: NOV-05-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **BILL BRERETON**

We hereby certify the following Geochemical Analysis of 58 SOIL samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L6E-3+00N	3	
L6E-3+25N	2	
L6E-3+50N	5	7
L6E-3+75N	5	
L6E-4+00N	3	
L6E-4+25N	0	
L6E-4+50N	0	
L6E-4+75N	3	
L6E-5+00N	5	7
L6E-5+25N	5	
L6E-5+50N	3	
L6E-5+75N	3	
L6E-6+00N	3	3
L6E-6+25N	3	
L6E-6+50N	5	
L6E-6+75N	2	
L6E-8+50N	3	
L6E-8+75N	7	9
L6E-9+00N	3	
L6E-9+25N	2	2
L6E-9+75N	7	9
L6E-10+00N	2	
L6E-10+25N	0	
L6E-10+50N	2	
L6E-10+75N	3	5
L6E-11+00N	3	
L4E-7+00N	2	
L4E-7+25N	2	

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3W-2716-SG1

Date: NOV-05-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. Brereton**

We hereby certify the following Geochemical Analysis of 56 SOILS samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L6E-0+25S	2	
L6W-6+25N	2	
L6W-6+50N	3	
L6W-6+75N	3	
L6W-7+00N	5	7
L6W-7+25N	3	
L6W-7+50N	2	
L6W-7+75N	3	
L6W-8+00N	2	
L6W-8+25N	3	
L6W-8+50N	5	5
L6W-8+75N	9	10
L6W-9+00N	2	
L6W-9+25N	5	
L6W-9+50N	7	
L6W-9+75N	7	9
L6W-10+00N	5	
L7W-7+25N	3	
L7W-7+50N	5	5
L7W-7+75N	5	
L7W-8+00N	5	
L7W-8+25N	5	
L7W-8+50N	3	
L7W-8+75N	5	7
L7W-9+00N	5	
L7W-9+25N	0	
L7W-9+50N	3	
L7W-9+75N	3	
L7W-10+00N	2	
L7E-1+50S	2	

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3W-2716-SG1

Date: NOV-05-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. Brereton**

We hereby certify the following Geochemical Analysis of 56 SOILS samples submitted OCT-19-93 by .

Sample Number	Au PPB	Au Ck PPB
L7E-1+75S	0	
L7E-2+00S	2	
L7E-2+25S	5	7
L7E-2+50S	5	
L7E-2+75S	3	
L7E-3+00S	2	
L7E-3+25S	2	
L7E-3+50S	3	
L7E-3+50N	2	
L7E-3+75N	5	
L7E-4+00N	9	12
L7E-4+25N	3	
L7E-4+50N	2	
L7E-4+75N	3	
L7E-5+00N	3	
L7E-5+25N	3	3
L7E-5+50N	3	
L7E-5+75N	5	5
L7E-6+00N	5	
L7E-6+25N	3	
L7E-7+00N	3	
L7E-7+25N	3	
L7E-7+75N	2	
L7E-8+00N	5	7
L7E-8+25N	3	
L7E-8+50N	5	7

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## Geochemical Analysis Certificate

3W-2688-SG1

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. BRERETON**

Date: **OCT-26-93**

We hereby certify the following Geochemical Analysis of 57 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L13E-0+50S	5	
L13E-0+75S	3	
L13E-1+00S	0	
L13E-1+25S	3	
L13E-1+50S	3	2
L13E-1+75S	0	
L13E-2+75S	2	
L13E-3+00S	2	
L13E-3+25S	0	
L13E-0+25N	3	
L13E-4+75N	3	
L13E-5+00N	2	
L13E-5+25N	3	
L13E-5+50N	3	
L13E-5+75N	3	
L13E-6+00N	2	
L13E-6+25N	3	
L13E-6+50N	3	
L13E-6+75N	2	
L13E-7+00N	2	
L13E-7+25N	3	
L13E-8+25N	0	
L13E-8+50N	3	
L13E-8+75N	3	
L13E-9+00N	2	
L13E-9+50N	2	
L13E-9+75N	5	
L13E-10+00N	5	3
L13E-10+25N	3	
L13E-10+50N	0	

Certified by *Dennis Swastika*



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3W-2688-SG1

Date: OCT-26-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. BRERETON**

We hereby certify the following Geochemical Analysis of 57 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L13E-10+75N	5	3
L13E-11+00N	3	
L13E-11+25N	0	
L13E-11+50N	3	
L13E-11+75N	3	
L13E-12+00N	3	
L14W-0+00N	5	
L14W-0+25N	3	
L14W-0+50N	2	
L14W-0+75N	5	
L14W-1+00N	3	
L14W-1+25N	2	
L14W-1+50N	3	
L14W-1+75N	3	
L14W-2+00N	3	
L14W-2+25N	3	
L14W-2+50N	3	
L14W-3+00N	3	5
L14W-3+25N	3	
L14W-3+50N	2	
L14W-3+75N	0	
L14W-4+00N	2	
L14W-4+25N	3	
L14W-4+50N	2	
L14W-4+75N	5	
L14W-5+00N	3	
L13E-9+25N	2	

Certified by *James Charles*



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3W-2671-SG1

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. BRERETON**

Date: **OCT-26-93**

We hereby certify the following Geochemical Analysis of 57 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L11E-11+50N	3	
L11E-(A)5+00N	0	
L11E-(A)5+25N	2	
L11E-(A)5+75N	2	
L11E-(A)6+00N	0	
L11E-(A)7+00N	2	
L11E-(A)7+25N	3	
L11E-(A)7+50N	2	
L11E-(A)7+75N	3	
L11E-(A)8+00N	3	
L11E-(A)8+25N	5	3
L11E-(A)8+50N	3	
L11E-(A)8+75N	0	
L11E-(A)9+25N	3	
L11E-(A)9+50N	3	
L11E-(A)9+75N	3	
L11E-(A)10+00N	2	
L11E-(A)10+25N	3	
L11E-(A)10+50N	0	
L11E-(A)10+75N	2	
L11E-(A)11+00N	2	
L11E-(A)11+25N	3	
L11W-0+12.5S	0	
L11W-0+25S	3	
L11W-0+37.5S	2	
L11W-0+50S	2	
L11W-0+62.5S	3	
L11W-0+75S	2	
L11W-0+87.5S	0	
L11W-1+00S	3	

Certified by *Dennis [Signature]*



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## Geochemical Analysis Certificate

3W-2671-SG1

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. BRERETON**

Date: **OCT-26-93**

We hereby certify the following Geochemical Analysis of 57 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L1 IW-1+12.5S	2	
L1 IW-1+25S	5	3
L1 IW-1+37.5S	3	
L1 IW-1+50S	3	
L1 IW-1+62.5S	3	
L1 IW-1+75S	3	
L1 IE-BL+00S	2	
L1 IE-0+25S	0	
L1 IE-0+50S	7	5
L1 IE-0+75S	3	
L1 IE-1+00S	3	
L1 IE-2+00S	3	
L1 IE-2+25S	5	
L1 IE-2+50S	3	
L1 IE-2+75S	5	5
L1 IE-3+00S	3	
L12W-BL+00N	3	
L12W-0+12.5N	3	
L12W-0+25N	2	
L12W-0+37.5N	2	
L12W-0+50N	0	
L12W-0+62.5N	3	
L12W-2+00N	3	
L12W-2+25N	3	
L12W-2+50N	0	
L12W-2+75N	2	
L1 IE-3+25S	5	3

Certified by *[Signature]*



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Page 1 of 2

3W-2663-SG1

Date: OCT-26-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W BRERETON**

We hereby certify the following Geochemical Analysis of 57 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L8W-0+25N	2	
L8W-0+37N	2	
L8W-0+50N	3	2
L8W-0+62N	0	
L8W-0+75N	2	
L8W-0+87N	3	
L8W-1+00N	5	
L8W-1+12N	3	
L8W-1+25N	2	
L8W-1+75N	3	
L8W-1+87N	2	
L8W-2+00N	2	2
L8W-2+12N	2	
L8W-2+25N	3	
L8W-2+37N	2	
L8W-2+50N	2	
L8W-2+62N	2	
L8W-2+75N	3	
L8W-2+87N	2	
L8W-3+00N	2	
L8W-3+12N	2	
L8W-3+25N	3	3
L8W-3+37N	2	
L8W-3+50N	3	
L8W-3+62N	3	
L8W-3+75N	5	
L8W-3+87N	3	
L8W-4+12N	2	
L8W-4+50N	3	
L8W-4+62N	3	

Two samples marked L8W-4+75N.

Certified by *W. Brereton*

P.O. Box 10, Swastika, Ontario P0K 1T0

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3W-2663-SG1

Date: OCT-26-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W BRERETON**

We hereby certify the following Geochemical Analysis of 57 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L8W-4+75N	3	
L8W-0+00S	5	
L8W-0+12S	3	
L8W-0+25S	3	
L8W-0+37S	3	
L8W-0+50S	2	3
L8W-0+62S	3	
L8W-0+75S	2	
L8W-0+87S	2	
L8W-1+00S	2	
L8W-1+12S	3	3
L8W-1+50S	3	
L8W-1+62S	0	
L8W-1+75S	3	
L8W-1+87S	3	
L8W-2+00S	5	
L8W-2+12S	10	10
L8W-2+25S	3	
L9W-0+12N	3	
L9W-0+25N	7	7
L9W-0+37N	3	
L9W-0+50N	2	
L9W-0+62N	5	
L9W-0+75N	2	
L9W-0+87N	3	
L9W-1+00N	2	
L8W-4+75N	3	

Two samples marked L8W-4+75N.

Certified by *P. Jones*



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Page 1 of 2

## Geochemical Analysis Certificate

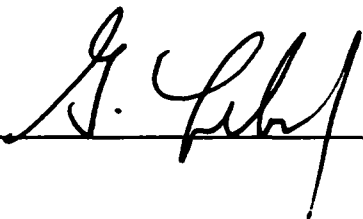
3W-2672-SG1

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W BRERETON**

Date: **OCT-28-93**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L12W-3+00N	2	
L12W-3+25N	3	
L12W-3+50N	2	
L12W-3+75N	3	
L12W-4+00N	0	
L12W-4+25N	3	
L12W-4+75N	2	
L12W-5+00N	2	
L12W-5+50N	3	2
L12W-5+75N	3	
L12W-6+25N	3	
L12W-6+50N	2	
L12W-6+75N	2	
L12W-7+00N	3	
L12W-7+25N	0	
L12W-7+50N	2	
L12W-7+75N	3	5
L12W-8+00N	2	
L12W-8+25N	2	
L12W-8+50N	2	
L12W-8+75N	3	
L12W-0+12.5S	2	
L12W-0+25S	0	
L12W-0+87.5S	3	
L12W-1+00S	3	
L12W-1+12.5S	3	
L12W-1+37.5S	3	
L12W-1+50S	5	5
L12W-1+62.5S	2	
L12W-1+75S	2	

Certified by 



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## Geochemical Analysis Certificate

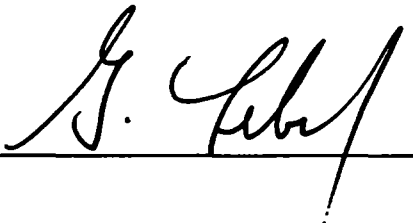
3W-2672-SG1

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W BRERETON**

Date: **OCT-28-93**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L12W-1+87.5S	2	
L12E-5+00N	3	
L12E-5+25N	2	
L12E-5+50N	3	
L12E-5+75N	3	5
L12E-6+00N	3	
L12E-6+25N	0	
L12E-6+50N	3	
L12E-6+75N	2	
L12E-7+00N	3	
L12E-8+50N	2	
L12E-8+75N	0	
L12E-0+25S	2	
L12E-0+50S	5	3
L12E-0+75S	2	
L12E-1+75S	2	
L12E-2+00S	0	
L12E-2+25S	2	
L12E-2+50S	2	
L12E-2+75S	3	
L12E-3+00S	2	
L12E-3+25S	2	
L12E-3+50S	3	
L12E-3+75S	2	
L13E-0+00S	3	
L13E-0+25S	3	3

Certified by 





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3W-2689-SG1

Date: OCT-28-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. BRERETON**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L14W-5+25N	3	3
L14W-5+50N	3	
L14W-5+75N	0	
L14W-6+00N	0	
L14W-6+25N	2	
L14W-6+50N	2	
L14W-6+75N	3	
L14W-7+00N	2	
L14W-7+25N	2	
L14W-7+50N	2	
L14W-7+75N	3	
L14W-8+25N	2	
L14W-8+50N	3	3
L14W-8+75N	3	
L14W-10+00N	0	
L16W-1+25N	2	
L16W-1+50N	2	
L16W-2+00N	3	
L16W-2+25N	2	
L16W-2+50N	2	
L16W-2+75N	2	
L16W-3+00N	3	
L16W-3+25N	3	
L16W-3+50N	2	
L16W-3+75N	3	
L16W-4+00N	3	
L16W-4+25N	3	
L16W-4+50N	3	
L16W-4+75N	5	3
L16W-5+00N	2	

Certified by

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

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3W-2689-SG1


Date: OCT-28-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. BRERETON**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L16W-5+25N	0	
L16W-5+50N	2	
L16W-6+00N	2	
L16W-6+25N	0	
L16W-7+50N	2	
L16W-7+75N	3	
L16W-8+00N	2	
L16W-8+25N	3	
L16W-8+50N	3	5
L16W-8+75N	3	
L16W-9+25N	3	
L16W-9+50N	3	
L16W-10+00N	5	
L18W-3+00N	5	
L18W-3+25N	10	7
L18W-3+50N	3	
L18W-3+75N	3	
L18W-4+00N	3	
L18W-4+25N	5	
L18W-4+50N	2	
L18W-4+75N	3	
L18W-5+00N	3	
L18W-5+25N	3	
L18W-5+50N	2	
L18W-5+75N	3	
L18W-6+00N	5	

Certified by 



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## Geochemical Analysis Certificate

3W-2692-SG1

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W.BRERETON**

Date: OCT-28-93

We hereby certify the following Geochemical Analysis of 23 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L26W-6+75N	3	
L26W-7+50N	0	
L26W-7+75N	3	3
L26W-8+00N	2	
L26W-8+25N	2	
L26W-8+50N	2	
L26W-9+25N	2	
L26W-9+50N	0	
L26W-9+75N	3	
L26W-10+00N	3	
J-1	3	
J-2	3	
J-3	2	
J-4	2	
J-5	3	
J-6	5	5
2W-8+25N	3	
2W-8+50N	3	
2W-8+75N	2	
2W-9+00N	3	
2W-9+25N	5	7
2W-9+50N	3	
2W-9+75N	3	

Certified by

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



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3W-2690-SG1

Date: OCT-27-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. BRERETON**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L18W-6+25N	0	
L18W-6+50N	2	
L18W-7+00N	0	
L18W-7+25N	2	
L18W-7+50N	2	
L18W-7+75N	3	
L18W-8+00N	2	
L18W-8+25N	3	2
L18W-8+50N	3	
L18W-8+75N	2	
L18W-9+00N	3	
L18W-9+25N	2	
L18W-9+50N	0	
L18W-9+75N	3	
L19W-10+00N	2	
L20W-2+75N	2	
L20W-3+00N	3	
L20W-4+25N	0	2
L20W-4+50N	2	
L20W-4+75N	0	
L20W-5+00N	3	
L20W-5+25N	2	
L20W-5+50N	2	
L20W-5+75N	3	
L20W-6+00N	2	
L20W-6+25N	3	
L20W-6+50N	3	
L20W-6+75N	0	
L20W-7+00N	3	
L20W-7+25N	2	

Certified by Dennis Chatter



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## Geochemical Analysis Certificate

3W-2690-SG1

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. BRERETON**

Date: **OCT-27-93**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L20W-8+00N	3	
L20W-8+25N	3	
L20W-8+50N	3	
L20W-8+75N	0	
L20W-9+00N	2	0
L20W-9+25N	2	
L20W-9+50N	2	
L20W-9+75N	2	
L20W-10+00N	3	
L22W-2+82N	3	
L22W-3+00N	2	
L22W-3+50N	0	0
L22W-3+75N	2	
L22W-4+00N	2	
L22W-4+25N	2	
L22W-4+50N	0	
L22W-5+25N	2	
L22W-5+50N	0	
L22W-5+75N	3	
L22W-6+00N	2	
L22W-6+25N	2	
L22W-6+50N	2	
L22W-6+75N	3	
L22W-7+00N	0	
L22W-7+25N	3	
L22W-7+50N	0	

Certified by Denis Chabot

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Telephone (705) 642-3244

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3W-2691-SG1

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. BRERETON**

Date: **OCT-27-93**

We hereby certify the following Geochemical Analysis of 55 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L22W-7+75N	3	2
L22W-8+00N	3	
L22W-8+25N	2	
L22W-8+50N	2	
L22W-8+75N	3	
L22W-9+00N	3	
L22W-9+25N	2	
L22W-9+50N	3	
L22W-10+00N	3	
L24W-3+00N	0	
L24W-3+25N	3	
L24W-3+50N	2	
L24W-3+75N	0	
L24W-4+00N	3	
L24W-4+25N	3	
L24W-4+50N	3	
L24W-4+75N	3	
L24W-5+00N	2	3
L24W-5+25N	3	
L24W-5+50N	0	
L24W-5+75N	2	
L24W-6+00N	2	
L24W-6+25N	3	
L24W-6+50N	3	
L24W-6+75N	2	
L24W-7+00N	3	
L24W-7+25N	3	
L24W-7+50N	12	10
L24W-7+75N	3	
L24W-8+00N	3	

Certified by Denis Chantre



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3W-2691-SG1

Date: OCT-27-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. BRERETON**

We hereby certify the following Geochemical Analysis of 55 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L24W-8+25N	2	
L24W-8+50N	0	
L24W-8+75N	3	
L24W-9+00N	3	
L24W-9+25N	3	
L24W-9+50N	2	
L24W-9+75N	2	
L25W-10+00N	3	
L26W-2+00N	3	3
L26W-2+25N	0	
L26W-2+50N	2	
L26W-2+75N	3	
L26W-3+00N	2	
L26W-3+25N	2	
L26W-3+50N	3	
L26W-4+25N	0	
L26W-4+50N	3	
L26W-4+75N	2	
L26W-5+00N	3	
L26W-5+25N	2	
L26W-5+50N	3	
L26W-5+75N	3	3
L26W-6+00N	2	
L26W-6+25N	2	
L26W-6+50N	2	

Certified by *Dennis Chantre*



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## Geochemical Analysis Certificate

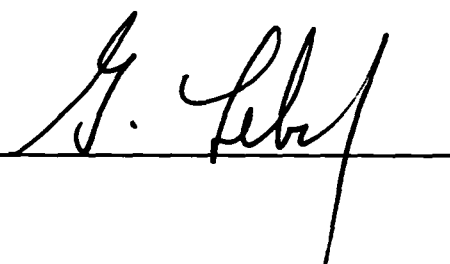
3W-2664-SG1

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. Brereton**

Date: **OCT-22-93**

We hereby certify the following Geochemical Analysis of 55 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au check PPB
L9W-1+12N	3	
L9W-1+75N	5	
L9W-1+87N	2	
L9W-2+00N	5	
L9W-2+12N	5	
L9W-2+25N	14	14
L9W-2+37N	5	
L9W-2+50N	3	
L9W-2+62N	7	
L9W-2+87N	5	
L9W-3+00N	0	
L9W-3+12.5N	3	
L9W-3+25N	2	
L9W-3+37.5N	3	2
L9W-3+50N	3	
L9W-3+62.5N	5	
L9W-3+75N	3	
L9W-3+87.5N	0	
L9E-6+50N	2	2
L9E-6+75N	3	
L9E-7+00N	3	
L9E-7+50N	3	
L9E-7+75N	3	
L9E-8+00N	5	
L9E-8+25N	3	
L9E-8+50N	3	
L9E-8+75N	2	
L9E-9+25N	7	5
L9E-9+50N	5	
L9E-9+75N	3	

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3W-2664-SG1

Date: OCT-22-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. Brereton**

We hereby certify the following Geochemical Analysis of 55 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au check PPB
L9E-10+00N	7	5
L9E-10+25N	no sample	
L9E-10+50N	3	
L9E-10+75N	5	
L9E-11+00N	7	
L9E-11+25N	2	
L9E-11+43N	2	
L9W-0+00S	3	
L9W-0+12S	2	2
L9W-0+37S	5	
L9W-0+50S	2	
L9W-0+62S	2	
L9W-0+75S	3	
L9W-0+87S	2	2
L9W-1+12S	3	
L9W-1+25S	2	
L9W-1+37S	3	3
L9W-1+50S	3	
L9W-1+62S	0	
L9W-1+75S	7	
L9W-1+87S	3	
L9W-2+00S	0	
L10W-BL+00N	14	15
L10W-0+12.5N	2	
L10W-0+25N	5	
L10W-0+37.5N	5	

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## Geochemical Analysis Certificate

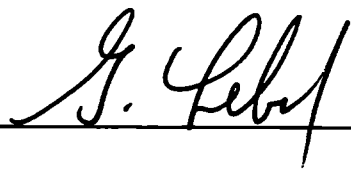
3W-2665-SG1

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. Brereton**

Date: **OCT-22-93**

We hereby certify the following Geochemical Analysis of 56 soil samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au check PPB
L10W-0+50N	3	
L10W-0+62.5N	3	
L10W-0+75N	2	
L10W-0+87.5N	3	
L10W-1+00N	3	
L10W-1+12.5N	3	
L10W-1+25N	2	
L10W-1+37.5N	2	
L10W-1+50N	3	
L10W-1+62.5N	7	5
L10W-1+75N	0	
L10W-1+87.5N	2	
L10E-0+25S	3	
L10E-0+50S	3	
L10E-0+75S	2	
L10E-1+00S	2	
L10E-1+25S	3	
L10E-1+50S	2	
L10E-1+75S	5	5
L10E-3+25S	2	
L10E-3+50S	3	
L10E-2+75N	0	
L10E-3+00N	2	
L10E-5+75N	3	
L10E-6+00N	2	
L10E-6+25N	3	
L10E-6+50N	2	
L10E-7+00N	2	
L10E-7+25N	3	
L10E-7+50N	2	3

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3W-2665-SG1

Date: OCT-22-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. Brereton**

We hereby certify the following Geochemical Analysis of 56 soil samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au check PPB
L10E-7+75N	0	
L10E-8+00N	0	
L10E-8+25N	2	
L10E-8+50N	2	
L10E-8+75N	3	
L10E-9+00N	3	
L10E-9+25N	5	7
L10E-9+50N	2	
L10E-9+75N	2	
L10E-10+00N	3	
L10E-10+25N	3	
L10E-10+50N	3	
L10E-10+75N	2	
L10E-11+00N	3	
L10W-0+12.5S	2	
L10W-0+25S	2	
L10W-0+37.5S	3	5
L10W-0+50S	3	
L10W-0+62.5S	2	
L10W-0+75S	2	
L10W-0+87.5S	5	
L10W-1+00S	2	
L10W-1+12.5S	3	
L10W-1+25S	3	
L10W-1+37.5S	2	
L10W-1+50S	3	

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## Geochemical Analysis Certificate

3W-2666-SG1

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Ann: **W. Brereton**

Date: **OCT-22-93**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au check PPB
L10W-1+75S	3	
L10W-1+87.5S	2	
L10W-2+12.5S	3	
L10W-2+25S	2	
L10W-2+37.5S	2	
L10W-2+50S	5	7
L10W-2+62.5S	3	
L11W-BLO+00N	2	
L11W-0+12.5N	2	
L11W-0+25N	3	
L11W-0+37.5N	2	
L11W-0+50N	3	
L11W-0+62.5N	2	
L11W-0+75N	3	
L11W-0+87.5N	3	
L11W-1+00N	2	
L11W-1+12.5N	2	
L11W-1+25N	3	
L11W-1+37.5N	3	
L11W-1+50N	0	
L11W-1+62.5N	9	10
L11W-1+75N	5	
L11W-7+75N	3	
L11W-8+00N	2	
L11W-8+25N	3	
L11W-8+50N	2	
L11W-8+75N	5	5
L11W-9+50N	2	
L11W-9+75N	2	
L11W-10+00N	0	

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## Geochemical Analysis Certificate

3W-2666-SG1

Company: **M.P.H. CONSULTING LTD**  
Project: **C-1502**  
Attn: **W. Brereton**

Date: **OCT-22-93**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au check PPB
L11E-3+75N	3	
L11E-4+00N	3	
L11E-4+25N	3	
L11E-4+50N	2	
L11E-4+75N	3	
L11E-5+00N	2	3
L11E-5+25N	3	
L11E-5+50N	3	
L11E-5+75N	2	
L11E-6+00N	2	
L11E-6+25N	0	
L11E-6+50N	2	
L11E-6+75N	3	
L11E-7+00N	3	
L11E-8+25N	3	
L11E-8+50N	2	
L11E-8+75N	3	
L11E-9+25N	5	7
L11E-9+50N	2	
L11E-9+75N	3	
L11E-10+00N	2	
L11E-10+25N	2	
L11E-10+50N	2	
L11E-10+75N	3	
L11E-11+00N	0	
L11E-11+25N	2	

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## Geochemical Analysis Certificate

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Company: **M.P.H. CONSULTING**

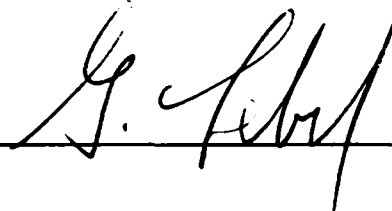
Date: OCT-18-93

Project: C-1502

Attn: B. Brereton

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au PPB
L4E-0+00S	10	
L4E-0+25S	2	
L4E-0+50S	2	
L4E-1+00S	7	9
L4E-1+25S	7	
L4E-1+75S	3	
L4E-2+00S	2	
L4E-2+25S	9	7
L4E-2+50S	5	
L4E-2+75S	3	
L4E-3+00S	5	
L4E-3+25S	3	
L4E-3+50S	3	
LSW-0+12.5N	5	
LSW-0+25N	3	
LSW-0+37.5N	3	2
LSW-0+50N	5	
LSW-0+62.5N	5	
LSW-0+75N	3	
LSW-0+87.5N	5	
LSW-1+00N	5	
LSW-1+12.5N	5	
LSW-1+25N	7	5
LSW-1+37.5N	3	
LSW-1+50N	5	
LSW-1+62.5N	5	7
LSW-1+75N	2	
LSW-1+87.5N	5	
LSW-2+25N	2	
LSW-2+37.5N	3	

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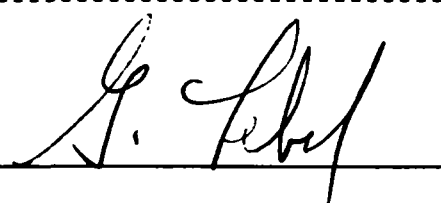
Date: OCT-18-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING**  
Project: **C-1502**  
Attn: **B. Brereton**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au PPB
LSW-2+50N	7	7
LSW-2+62.5N	5	
LSW-2+75N	5	
LSW-2+87.5N	3	
LSW-3+00N	2	
LSW-3+12.5N	3	
LSW-3+25N	3	
LSW-3+37.5N	5	
LSW-3+62.5N	3	
LSW-3+75N	5	
LSW-3+87.5N	3	
LSW-4+00N	3	3
LSW-4+12.5N	3	
LSW-4+25N	2	
LSW-4+37.5N	3	
LSW-4+50N	2	
LSW-4+62.5N	5	
LSW-BL-0+00S	3	
LSW-0+12.5S	5	
LSW-0+25S	7	7
LSW-0+37.5S	7	
LSW-0+50S	5	
LSW-0+62.5S	5	5
LSW-0+75S	3	
LSW-0+87.5S	5	
LSW-1+00S	5	

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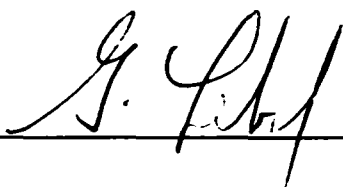
Date: OCT-18-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING**  
Project: **C-1502**  
Attn: **W. Brereton**

We hereby certify the following Geochemical Analysis of 55 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au PPB
L3E-2+75N	2	2
L3E-3+00N	2	
L3E-3+25N	3	
L3E-3+50N	3	
L3E-3+75N	2	
L3E-4+00N	2	
L3E-4+25N	3	
L3E-4+50N	9	7
L3E-4+75N	2	
L3E-5+00N	0	
L3E-5+25N	3	
L3E-5+50N	2	
L3E-5+75N	2	
L3E-6+00N	3	
L3E-6+25N	2	0
L3E-6+50N	2	
L3E-6+75N	3	
L3E-7+00N	3	
L3W-0+00N	2	
L3W-0+12N	3	
L3W-0+25N	2	
L3W-0+37N	2	
L3W-0+50N	3	3
L3W-0+62N	2	
L3W-0+75N	3	
L3W-0+87N	2	
L3W-1+00N	2	
L3W-1+12N	2	
L3W-1+25N	0	
L3W-1+37N	9	7

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## Geochemical Analysis Certificate


3W-2642-SG1

Company: **M.P.H. CONSULTING**  
Project: **C-1502**  
Attn: **W. Brereton**

Date: **OCT-18-93**

We hereby certify the following Geochemical Analysis of 55 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au PPB
L3W-1+50N	2	
L4W-BL-0+00	2	
L4W-0+12S	5	
L4W-0+25S	2	
L4W-0+37S	5	7
L4W-0+50S	2	
L4W-0+62S	0	
L4W-0+75S	2	
L4W-0+87S	2	
L4W-1+00S	2	
L4W-1+12S	3	3
L4W-1+25S	2	
L4W-1+37S	2	
L4W-1+50S	2	
L4W-1+62S	3	
L4W-1+75S	HUMUS	
L4W-0+12N	3	
L4W-0+25N	2	
L4W-0+37N	2	2
L4W-0+50N	3	
L4W-0+75N	2	
L4W-0+87N	0	
L4W-1+00N	2	
L4W-1+12N	2	
L4W-1+25N	3	
L4W-1+37N	2	2

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## Geochemical Analysis Certificate

3W-2637-SG1

Company: **MPH CONSULTING**  
Project: **C-1502**  
Attn: **W BRERETON**

Date: **OCT-15-93**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au PPB
L2W-5+50N	5	5
L2W-5+75N	2	
L2W-6+00N	2	
L2W-6+25N	5	
L2W-6+50N	3	
L2W-6+75N	3	
L2W-7+00N	5	
L2W-7+25N	2	
L2W-7+50N	2	
L2W-7+75N	3	
L2W-8+00N	5	
L2W-10+00N	5	
L2W-0+87S	3	3
L2W-1+00S	2	
L2W-1+12S	5	
L2W-1+25S	2	2
L2W-1+37S	2	
L2W-1+62S	5	5
L2W-1+75S	2	
L2W-1+87S	5	
L2W-2+00S	3	
L2W-2+12S	2	
L2W-2+25S	3	
L2W-2+37S	2	
L2W-2+50S	3	
L2W-2+62S	5	
L2W-2+75S	2	
L2W-2+87S	2	
L2W-3+00S	3	2
L2W-3+12S	3	

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3W-2637-SG1

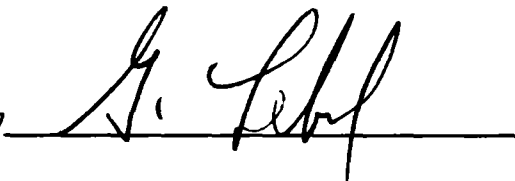
Date: OCT-15-93

## Geochemical Analysis Certificate

Company: **MPH CONSULTING**  
Project: **C-1502**  
Attn: **W BRERETON**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au PPB
L2W-3+25S	2	
L2W-3+37S	3	
L2E-0+00S	3	
L2E-0+25S	2	
L2E-0+50S	2	
L2E-0+75S	3	
L2E-1+00S	2	
L2E-1+25S	0	2
L2E-1+50S	5	
L2E-1+75S	3	
L2E-2+00S	7	5
L2E-2+25S	3	
L2E-2+50S	3	
L2E-2+75S	0	
L2E-3+00S	3	
L2E-3+25S	5	
L2E-3+50S	3	
L2E-0+25N	3	3
L2E-0+50N	5	
L2E-0+75N	3	
L2E-1+00N	3	
L2E-1+25N	3	
L2E-1+50N	2	2
L2E-1+75N	3	
L2E-2+00N	2	
L2E-2+25N	2	

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## Geochemical Analysis Certificate

3W-2662-SG1

Company: **M.P.H. CONSULTING**

Date: OCT-20-93

Project: C-1502

Attn: W. Brereton

We hereby certify the following Geochemical Analysis of 57 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au check PPB
L6W 1+75S	3	3
L6W 1+87.5S	2	
L6W 2+12.5S	2	
L6W 2+25S	0	
L7W 0+12N	3	
L7W 0+25N	0	
L7W 0+37N	2	
L7W 0+50N	2	
L7W 0+62N	2	
L7W 0+75N	0	
L7W 0+87N	2	
L7W 1+00N	2	
L7W 1+12N	3	
L7W 1+25N	9	10
L7W 1+37N	2	
L7W 1+50N	3	2
L7W 1+75N	2	
L7W 1+82N	2	
L7W 2+00N	3	
L7W 2+12N	3	
L7W 2+25N	2	
L7W 2+37N	2	
L7W 2+50N	5	7
L7W 2+62N	3	
L7W 2+75N	3	
L7W 2+87N	2	
L7W 3+00N	2	2
L7W 3+50N	3	
L7W 4+00N	3	
L7W 4+12N	2	

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3W-2662-SG1


Date: OCT-20-93

## Geochemical Analysis Certificate

Company: **M.P.H.CONSULTING**  
Project: **C-1502**  
Attn: **W. Brereton**

We hereby certify the following Geochemical Analysis of 57 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au check PPB
L7W 4+25N	3	
L7W 4+37N	3	5
L7W 4+50N	0	
L7W 4+62N	10	
L7W 4+75N	3	
L7W 4+87N	0	
L7W 5+00N	0	
L7W 5+12N	5	5
L7W 5+25N	2	
L7W 5+37N	3	
L7W 5+50N	0	
L7W 0+25S	3	
L7W 0+37S	3	
L7W 0+50S	0	
L7W 0+62S	2	
L7W 0+75S	2	
L7W 0+87S	3	
L7W 1+00S	7	10
L7W 1+12S	9	7
L7W 1+37S	2	
L7W 1+50S	3	
L7W 1+62S	2	
L7W 1+75S	0	
L7W 1+87S	3	
L7W 2+00S	2	
L8W 0+12S	0	
L8W 0+12N	3	

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## Geochemical Analysis Certificate

3W-2661-SG1

Company: **M.P.H. CONSULTING**


Date: OCT-19-93

Project: C-1502

Attn: W. Brereton

We hereby certify the following Geochemical Analysis of 54 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au check PPB
L6W 0+25N	3	
L6W 0+37.5N	3	
L6W 0+50N	2	3
L6W 0+62.5N	3	
L6W 0+75N	0	
L6W 0+87.5N	2	
L6W 1+00N	2	
L6W 1+12.5N	7	10
L6W 1+25N	3	
L6W 1+37.5N	3	
L6W 1+50N	10	
L6W 1+62.5N no samp	-	
L6W 1+75N	10	
L6W 1+87.5N	5	5
L6W 2+00N	3	
L6W 2+12.5N	0	
L6W 2+25N	2	
L6W 2+37.5N	2	
L6W 2+50N	2	
L6W 2+62.5N	2	
L6W 2+75N	0	
L6W 2+87.5N	5	7
L6W 3+00N	3	
L6W 3+12.5N	5	
L6W 3+25N	2	
L6W 3+37.5N	3	3
L6W 3+50N	2	
L6W 3+62.5N	2	
L6W 3+75N	3	
L6W 3+87.5N	2	

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## Geochemical Analysis Certificate

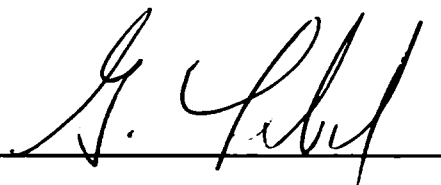
3W-2661-SG1

Company: **M.P.H. CONSULTING**  
Project: **C-1502**  
Attn: **W. Brereton**

Date: **OCT-19-93**

We hereby certify the following Geochemical Analysis of 54 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au check PPB
L0W 4+00N	3	
L0W 4+12.5N	3	
L0W 4+25N	0	0
L0W 4+37.5N	3	
L0W 4+50N	3	
L0W 4+62.5N	2	
L0W 4+75N	0	
L0W 4+87.5N	2	
L0W 5+00N	3	
L0W 5+12.5N	2	
L0W 5+25N	2	
L0W 5+37.5N	3	
L0W 5+50N	3	5
L0W 5+62.5N	3	
L0W 5+75N	2	
L0W 5+87.5N	5	
L0W BLO+00S	7	9
L0W 0+12.5S	5	
L0W 0+25S	2	
L0W 0+50S	3	
L0W 0+62.5S	3	
L0W 0+75S	0	
L0W 1+37.5S	3	
L0W 1+50S	2	2
L0W 1+62.5S	5	

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Page 1 of 2

## Geochemical Analysis Certificate


3W-2644-SG1

Company: **M.P.H. CONSULTING**  
Project: **C-1502**  
Attn: **W. Brereton**

Date: **OCT-19-93**

We hereby certify the following Geochemical Analysis of 54 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au check PPB
LSW-1+12.5S	3	5
LSW-1+25S	7	
LSW-1+37.5S	5	
LSW-1+50S	2	
LSW-1+62.5S	2	
LSW-1+75S	7	5
LSW-1+87.5S	3	
LSW-2+00S	3	
LSW-2+12.5	7	
LSW-2+25S	2	
LSE-0+25N	3	
LSE-0+50N	3	
LSE-0+75N	10	7
LSE-1+00N	5	
LSE-1+25N	3	
LSE-1+50N	3	
LSE-1+75N	3	
LSE-2+00N	0	
LSE-2+25N	2	3
LSE-2+50N	7	
LSE-2+75N	3	
LSE-3+50N	7	
LSE-3+75N	9	7
LSE-4+00N	7	
LSE-4+25N	5	
LSE-4+50N	3	
LSE-4+75N	7	
LSE-5+00N	5	
LSE-5+50N	3	
LSE-5+75N	3	3

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## Geochemical Analysis Certificate

3W-2644-SG1

Company: **M.P.H. CONSULTING**  
Project: **C-1502**  
Attn: **W. Brereton**

Date: **OCT-19-93**

We hereby certify the following Geochemical Analysis of 54 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au check PPB
LSE-7+25N	7	
LSE-9+00N	3	
LSE-9+25N	5	
LSE-9+50N	7	5
LSE-9+75N	9	7
LSE-10+00N	5	
LSE-10+25N	3	
LSE-10+50N	5	
LSE-10+75N	5	
LSE-11+00N	3	
LSE-11+25N	7	
LSE-11+50N	5	5
LSE-0+00S	7	
LSE-0+25S	3	
LSE-0+50S	5	
LSE-0+75S	5	
LSE-1+00S	7	7
LSE-1+25S	3	
LSE-1+50S	5	
LSE-1+75S	9	5
LSE-2+00S	5	
LSE-2+25S	3	3
LSE-2+75S	5	
L6W-0+12.5N	5	

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3W-2641-SG1


Date: OCT-15-93

## Geochemical Analysis Certificate

Company: **M.P.H. CONSULTING**  
Project: **C-1502**  
Attn: **W. Brereton**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au check PPB
L2E-2+50N	5	5
L2E-2+75N	2	
L2E-3+00N	3	
L2E-3+25N	3	
L2E-3+50N	2	
L2E-3+75N	0	
L2E-4+00N	2	
L2E-4+25N	3	
L2E-4+50N	2	
L2E-4+75N	3	
L2E-5+00N	5	
L2E-5+25N	3	
L2E-5+50N	3	5
L2E-5+75N	2	
L2E-6+00N	3	
L2E-6+25N	2	
L2E-6+50N	2	
L3W-0+12S	3	
L3W-0+25S	2	
L3W-0+37S	2	
L3W-0+50S	3	
L3W-0+62S	3	
L3W-0+75S	3	
L3W-0+87S	2	
L3W-1+00S	0	
L3W-1+12S	2	
L3W-1+25S	0	
L3W-1+37S	3	
L3W-1+50S	2	
L3W-1+62S	5	7

Certified by 

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



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## Geochemical Analysis Certificate

3W-2641-SG1

Company: **M.P.H. CONSULTING**  
Project: **C-1502**  
Attn: **W. Brereton**

Date: **OCT-15-93**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au check PPB
L3W-1+87S	3	
L3W-2+00S	2	
L3E-0+25S no sample	-	
L3E-0+50S	2	
L3E-0+75S	2	
L3E-1+00S	2	2
L3E-1+25S	2	
L3E-1+50S	2	
L3E-1+75S	3	
L3E-2+00S	2	
L3E-2+25S	3	
L3E-2+50S	3	
L3E-2+75S	2	
L3E-3+00S	2	
L3E-3+25S	0	0
L3E-3+50S	2	
L3E-0+00N	0	
L3E-0+25N	2	
L3E-0+50N	2	
L3E-1+00N	3	
L3E-1+25N	3	3
L3E-1+50N	2	
L3E-1+75N	3	
L3E-2+00N	2	
L3E-2+25N	2	
L3E-2+50N	2	
L3E-0+75N	3	2

Certified by

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Telephone (705) 642-3244

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3W-2636-SG1


Date: OCT-14-93

## Geochemical Analysis Certificate

Company: **MPH CONSULTING**  
Project: **C-1502**  
Attn: **W Brereton**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
LIE-3+00N	0	0
LIE-3+25N	0	
LIE-3+50N	2	
LIE-3+75N	3	
LIE-4+00N	2	
LIE-4+25N	0	
LIE-4+50N	0	
LIE-4+75N	0	
LIE-5+00N	2	
LIE-5+25N	2	
LIE-5+50N	0	
LIE-5+75N	0	
LIE-6+00N	2	
LIE-6+25N	2	
LIE-6+75N	2	2
LIE-0+00S	3	
LIE-0+25S	2	
LIE-0+50S	3	
LIE-0+75S	2	
LIE-1+00S	0	
LIE-1+25S	2	3
LIE-1+50S	0	
LIE-1+75S	5	
LIE-2+00S	2	
LIE-2+25S	3	
LIE-2+50S	5	
LIE-2+75S	0	0
LIE-3+00S	0	
LIE-3+25S	3	
LIV-3+50S	2	

Certified by 



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3W-2636-SG1

Date: OCT-14-93

## Geochemical Analysis Certificate

Company: **MPH CONSULTING**  
Project: **C-1502**  
Attn: **W Brereton**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au Ck PPB
L2W-0+37N	0	
L2W-0+50N	2	
L2W-1+00N	0	2
L2W-1+12N	3	
L2W-1+25N	0	
L2W-1+37N	0	
L2W-1+50N	0	
L2W-1+62N	0	
L2W-1+75N	3	
L2W-1+87N	0	
L2W-2+00N	0	
L2W-2+12N	0	0
L2W-2+25N	0	
L2W-2+37N	0	
L2W-2+50N	0	
L2W-2+62N	0	
L2W-2+75N	2	
L2W-2+87N	2	
L2W-3+00N	3	
L2W-3+12N	2	
L2W-3+25N	3	
L2W-3+37N	2	
L2W-3+50N	7	5
L2W-3+62N	5	5
L2W-3+75N	2	
L2W-3+87N	2	

Certified by \_\_\_\_\_

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



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3W-2635-SG1


Date: OCT-13-93

## Geochemical Analysis Certificate

Company: **MPH CONSULTING**  
Project: **C-1502**  
Att: **W. Brereton**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au PPB
L0+00BL	3	3
L0+25S	2	
L0+50S	0	
L0+75S	2	
L01+00S	2	
L01+25S	2	
L01+50S	7	5
L01+75S	0	
L02+00S	2	
L02+25S	2	
L02+50S	5	
L02+75S	2	
L03+00S	5	7
L03+25S	3	
L03+50S	2	
L1W-1+37N	0	
L1W-1+50N	2	
L1W-1+62N	2	
L1W-1+75N	3	
L1W-1+87N	3	
L1W-2+00N	2	
L1W-2+12N	2	
L1W-2+25N	2	
L1W-2+37N	0	
L1W-2+50N	0	
L1W-2+62N	2	
L1W-2+75N	2	
L1W-2+87N	5	5
L1W-3+00N	2	
L1W-3+12N	0	

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3W-2635-SG1


Date: OCT-13-93

## Geochemical Analysis Certificate

Company: **MPH CONSULTING**  
Project: **C-1502**  
Attn: **W. Brereton**

We hereby certify the following Geochemical Analysis of 56 SOIL samples submitted OCT-05-93 by .

Sample Number	Au PPB	Au PPB
LIW-3+25N	2	
LIW-3+37N	2	
LIW-3+50N	2	
LIW-3+62N	3	
LIW-3+75N	2	
LIW-1+25S	2	
LIW-1+50S	2	
LIW-1+75S	2	
LIW-2+00S	3	
LIW-2+25S	3	3
LIW-2+50S	2	
LIW-2+75S	2	
LIW-3+00S	0	
LIW-3+25S	2	
LIW-3+50S	0	
LIE-0+25N	2	
LIE-0+50N	3	3
LIE-0+75N	2	
LIE-1+00N	2	
LIE-1+25N	3	
LIE-1+50N	2	
LIE-1+75N	2	
LIE-2+00N	2	
LIE-2+25N	0	
LIE-2+50N	3	3
LIE-2+75N	2	

Certified by 

**APPENDIX 3**

**Sample Locations and Descriptions**



Sample No.	Location	Lithology	Au	
			(ppb)	(opt)
S-8001	Area1;Trench L5W/3+50N	Grab: veined(80%),altered int. tuff wallrock(py 1%)	720	
-8002	L0+00/2+50S	Grab: qtz float,xenolith of mafic volcanic,angular	7	
-8003	Area2;Trench L7W/1+50N	Grab: qtz-carb. vein	310	
-8004	Area2;Trench L7W/1+50N	Grab: carb.,qtz fel porphyry (S-side of vein)	146	
-8005	Area2;Trench L7W/1+50N	Grab: carb.,QFP (N-side of vein)	14	
-8006	Area2;Trench L7W/1+50N	Grab: qtz vein,galena diss.,(1-2%)	20,743 (22,629) (16,800) (16,320)	
-8007	Area2;S-side L7W/1+40N	Grab: QFP,euhedral py(1%)	26	
-8008	Area2;S-side L7W/1+40N	Grab: QFP,euhedral py(1%)	14	
-8051	Area1;Trench L5W/3+50N	Grab: qtz vein	76	
-8052	Area2;Trench L7W/1+50N	Grab: qtz vein	470	
-8053	Area2;Trench L7W/1+50N	Grab: qtz vein,galena diss.,(5%)	32,846 (33,600)	
-8054	L11W/8+50N	Grab: QFP,py(1%)	65	
-8055	L11W/8+49N	Grab: qtz vein,py(tr)	51	
-8056	L0+00/2+50S	Chip 20cm: qtz vein with tourmaline	2	
-8057	L0+00/2+50S	Chip 25cm: sheared mafic wallrock,N-side of 8056	17	
-8058	L0+00/2+50S	Chip 25cm: sheared mafic wallrock,S-side of 8056	0	
-8059	L3+15W/0+12N	Grab: qtz vein in int. tuff,py(tr)	2	
-8060	L0+90W/2+45N	Grab: sediments?,py(<1%)	0	
-8061	L18E/3+00N	Grab: mafic volcanics, py(<1%)	3	
-8101	L10E/10+75N	Grab: mafic volcanics	not assayed	
-8102	L11E/9+63N	Grab: mafic volcanics,pillowed	not assayed	
-8103	L13E/9+40N	Grab: mafic volcanics,pillowed	not assayed	
-8104	L13E/11+75N	Grab: mafic volcanics,pillowed	not assayed	

Sample No.	Location	Lithology	Au	
			(ppb)	(opt)
-8105	L13E/6+75N	Grab: mafic, pillowed	not assayed	
-8106	L12E/7+12N	Grab: mafic volcanics, massive to pillowed	not assayed	
-8107	L0+00/2+75S	Grab: mafic volcanics, mod. sheared, carb.	14	
-8108	L0+00/2+50S	Grab: mafic volcanics, strong sheared and carb.	12	
-8109	L1E/6+50N	Grab: mafic volcanics, sheared	not assayed	
-8110	L0+50E/7+00N	Grab: int. lapilli tuff	not assayed	
-8111	L25W/10N	Grab: gabbro	not assayed	
-8112	L25+60W/10N	Grab: strly. sheared mafic volcanics	not assayed	
-8113	L26W/6+00N	Grab: QFP	not assayed	
-8114	L26W/4+25N	Grab: gabbro	not assayed	
-8115	L26W/4+00N	Grab: wkly sheared mafic volcanics	not assayed	
-8116	L20W/8+60N	Grab: schistose, sheared mafic volcanics	not assayed	
-8117	L5E/3+50N	Grab: schistose, sheared mafic volcanics	not assayed	
-8118	L3W/1+60S	Chip 1m: qtz vein in felsic tuff	5	
-8119	L0+00/3+25W/BL	Grab: Fine ash tuff	not assayed	
-8120	L5W/1+00N	Grab: altered, sheared QFP	not assayed	
-8121	L9W/8+85N	Grab: altered, sheared QFP	not assayed	
-8122	L9W/6+25N	Grab: mafic ash tuff	not assayed	
-8123	L16W/6+00N	Grab: QFP, py(0.5-1%)	36	
-8124	L16W/5+75N	Grab: QFP, py(0.5-1%)	5	
-8125	Area1; Trench L5W/3+50N	Grab: qtz veinlets flooded altered int. tuff wallrock	1,116 (960)	
-8126	L14E/11+50N	Grab: argillite	not assayed	
93RL-1	Area1; Trench L5W/3+50N	Grab: qtz vein	19	
93RL-2	Area1; Trench L5W/3+50N	Grab: qtz vein	261	
93RL-3	Area1; Trench L5W/3+50N	Grab: qtz veinlets flooded wallrock	3,874 (3,189)	

opt.... ounce per ton  
(960).. check assay

**APPENDIX 4**

**Pre-1993 Sample Locations and Descriptions**

Sample No.	Location	Lithology	Au	
			(ppb)	(opt)
<b>Area 1-Gold Showing: Goldrock Resources Inc</b>				
22321	Area1;Trench L5W/3+50N	30cm wide qtz vein	3,280	
22322	N of trench	15cm wide altered wallrock	385	
22323	Area1;Trench L5W/3+50N	Int. tuff,med. Fe carb., py (5-10%)	625	
22324	Area1;Trench L5W/3+50N	4-5cm wide qtz-carb. vein,py(5-7%)	200	
22325	N of trench	Int. tuff,med. Fe carb.,py(5-10%)	80	
22326	Area1;Trench L5W/3+50N	Int. tuff,Fe carb.	<5	
22327	Area1;Trench L5W/3+50N	Qtz-carb. vein,glu(1-2%),py (1-2%)	500	
22328	Area1;Trench L5W/3+50N	15cm wide qtz-carb vein,glu+py(1%)	115	
22329	Area1;Trench L5W/3+50N	1-2cm altered wallrock	30	
22330	Area1;Trench L5W/3+50N	Int. tuff,py(2-3%)	1,150	
22331	Area1;Trench L5W/3+50N	Int. tuff,with qtz-carb. vein,py(5%)	160	
<b>Area 2-Gold Showing: J-DEX Mining and Exploration (1984)</b>				
31358	L7W/1+90N	Carb., QFP	51	
31363	Area2;Trench L7W/1+50N	30cm wide qtz vein in QFP		0.348
31364	Area2;Trench L7W/1+50N	15cm wide qtz vein in QFP		0.466
31367	Area2;Trench L7W/1+50N	Qtz-carb. vein,py(tr)	10	

Sample No.	Location	Lithology	Au	
			(ppb)	(opt)
<b>Area 2-Gold Showing: Goldrock Resources Inc. (1987)</b>				
22308	S of Trench	Altered and veined QFP	<5	
22309	S of Trench	Altered and veined QFP	10	
22310	S of Trench	Altered and veined QFP	115	
22311	S of Trench	Altered and veined QFP	>10,000	
22312	S of Trench	Altered and veined QFP	60	
22313	S of Trench	Altered and veined QFP	140	
22314	S of Trench	Altered and veined QFP	5	
22315	S of Trench	Altered and veined QFP	25	
22316	S of Trench	Altered and veined QFP	1,125	
22317	S of Trench	Altered and veined QFP	45	
22318	N of Trench	Altered and veined QFP	35	
22319	N of Trench	Altered and veined QFP	25	

Sample No.	Location	Lithology	Au	
			(ppb)	(opt)
<b>Other Areas: J-DEX Mining and Exploration (1984)</b>				
31351	L13E/3+00S	Sheared fel. tuff?(QFP)	18	
31352	L13E/2+90S	Mod.,carb,silicified andesite	8	
31354	L5E/3+25S	Sheared carb. mafic volcanic,py(tr)	3	
31355	L5E/3+20S	Sheared felsic tuff	3	
31356	L6W/2+15S	Sericite-carb. schist	8	
31357	L7W/2+00S	Sheared rhyolitic lapilli tuff,py(5%)	3	
31359	L10W/2+75N	Sheared,sili.,seri., felsic to int. tuff?(QFP)	3	
31360	L8W/1+90N	Sheared,sili.,seri., felsic to int. tuff?(QFP)	3	
31361	L9W/2+45N	Strly carb-seri-schist(QFP)	7	
31362	L8+75W/ 1+50N	Qtz-seri-carb schist	2	
31365	L8W/2+20N	15cm wide rusty qtz vein in felsic tuff	116	
31366	L3W/1+75S	Strly carb. andesite py(tr)	16	
31368	L5W/1+40N	Strly sheared, strly talc, carb., tuff with qtz eyes(QFP),py(tr)	10	
31388	L4+40W/1+80S	Mafic volcanic	n.a.	
31390	L3W/1+75S	Mafic volcanic	n.a	
31391	L9W/2+50S	Mafic volcanic	n.a	
31392	L8W/0+30S	Int. tuff	n.a	
31394	L5+50W/1+90S	Int. tuff	n.a	
31395	L8W/1+25N	QFP	n.a	

Sample No.	Location	Lithology	Au	
			(ppb)	(opt)
<b>Other Areas: Goldrock Resources Inc. (1987)</b>				
22301	L9W/1+00N	QFP	<5	
22302	L8W/1+25N	QFP	10	
22303	L8W/1+25N	QFP	<5	
22305	L8W/1+25N	QFP	<5	
22306	L8W/1+25N	QFP	<5	
22307	L8W/1+25N	QFP	<5	
22337	L3W/2+60S	Mafic volcanic flow	<5	
22338	L3W/2+50S	Mafic volcanic flow	<5	
22339	L3W/2+25S	Mafic volcanic flow	<5	
22340	L3W/2+35S	Mafic volcanic flow	<5	
22341	L3W/2+25S	Mafic volcanic flow	<5	

opt.... ounce per ton

n.a ... not available



**Report of Work Conducted  
After Recording Claim**  
Mining Act

Transaction Number  
**W9560.00020**

**2.15927**

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7284.

- Instructions:
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for re-recorder.
  - A separate copy of this form must be complete
  - Technical reports and maps must accompany it
  - A sketch, showing the claims the work is assigned



410155W0029 2.15927 RANEY

900

Recorded Holder(s) <i>Cree Lake Resources Corp.</i>		Client No. <i>122269</i>
Address <i>408-67 Richmond St W, Toronto, M5H1Z5</i>		Telephone No. <i>(416) 690-3248</i>
Mining Division <i>Porcupine</i>	Township/Area <i>Raney Twp</i>	M or G Plan No. <i>G-3245</i>
Date Work Performed	From: <i>Sept 15/93</i>	To: <i>Dec 15/93</i>

**Work Performed (Check One Work Group Only)**

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	<i>Ecological mapping, soil, rock geotechnical, prospecting</i>
<input type="checkbox"/> Physical Work, including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

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Total Assessment Work Claimed on the Attached Statement of Costs \$ *14724*

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

**Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)**

Name	Address
<i>W.E. Brewerton</i>	<i>MPH Consulting Limited</i>
<i>J. Hamilton</i>	<i>1800-150 York St, Toronto</i>
<i>J. Rudd</i>	<i>M5H1J5</i>
<i>A.M. Thelin</i>	

(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 report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.

Date: *Jan 9/95* Recorded Holder or Agent (Signature): *[Signature]*

**Certification of Work Report**

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying: *W.E. Brewerton MPH Consulting Limited, Toronto*

Telephone No.: *(416) 365-0930* Date: *Jan 7/95* Certified By (Signature): *[Signature]*

**For Office Use Only**

Total Value Cr. Recorded <i>#H, 724.</i>	Date Recorded	Mining Recorder (and date) <i>Dary White</i>	Received Stamp <i>APR 10 1995</i>
	Deemed Approval Date <i>APR 10, 1995</i>	Date Approved	
	Date Notice for Amendments Sent		







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**CREE LAKE RESOURCES CORP.**  
**COST BREAKDOWN -RANEY TOWNSHIP GOLD PROJECT, 1993**

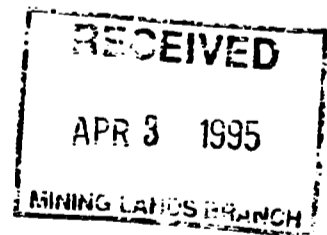
a) **Personnel Charges**

<b><u>MPH Consulting Limited Inv.#</u></b>	<b><u>Geology</u></b>	<b><u>Prospecting</u></b>	<b><u>Geophysical Interpretation</u></b>	<b><u>Soil and Rock Geochemistry</u></b>	<b><u>Computer Work, Map Preparation Reporting</u></b>
8756 (Oct)	1300.00 2800.00	1750.00		1937.50	45.00 30.00 52.50 15.00
8774 (Nov)	3100.00 9100.00	5500.00	45.00	11250.00	52.50
8803 (Dec)		1125.00 1500.00	1125.00	3500.00	3667.50 875.00 232.67 7700.00
<b>Totals</b>	<b><u>16300.00</u></b>	<b><u>9875.00</u></b>	<b><u>1170.00</u></b>	<b><u>16687.50</u></b>	<b><u>12670.17</u></b>
				<b>TOTAL</b>	<b><u>56702.67</u></b>

2.15937

b) Other Charges

Mob-demob	\$2644.90
Truck rentals	3461.00
ATV rental	700.00
Supplies: camp equipment, lumber, sampling materials, communications	2072.04
Assays/analysis	11774.00
Fuel, propane	811.77
Foods and lodging	<u>1669.60</u>
Total	<u>\$23133.31</u>



Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

Geoscience Approvals Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

April 5, 1995

Our File: 2.15927  
Transaction #: W9560.00020

Telephone: (705) 670-5853  
Fax: (705) 670-5863

Mining Recorder  
Ministry of Northern Development & Mines  
60 Wilson Avenue  
1st Floor  
Timmins, Ontario  
P4N 2S7

Dear Sir:

**Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS  
P.1180250 ET AL IN RANEY TOWNSHIP**

Assessment work credits have been approved as outlined on the original report of work. The credits have been approved under Section 12, Geology and Section 13, Geochemistry, Mining Act Regulations.

The approval date is April 4, 1995.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5855.

ORIGINAL SIGNED BY:



Ron C. Gashinski  
Senior Manager, Mining Lands Section  
Mining and Land Management Branch  
Mines and Minerals Division

LJ/jl  
Enclosure:

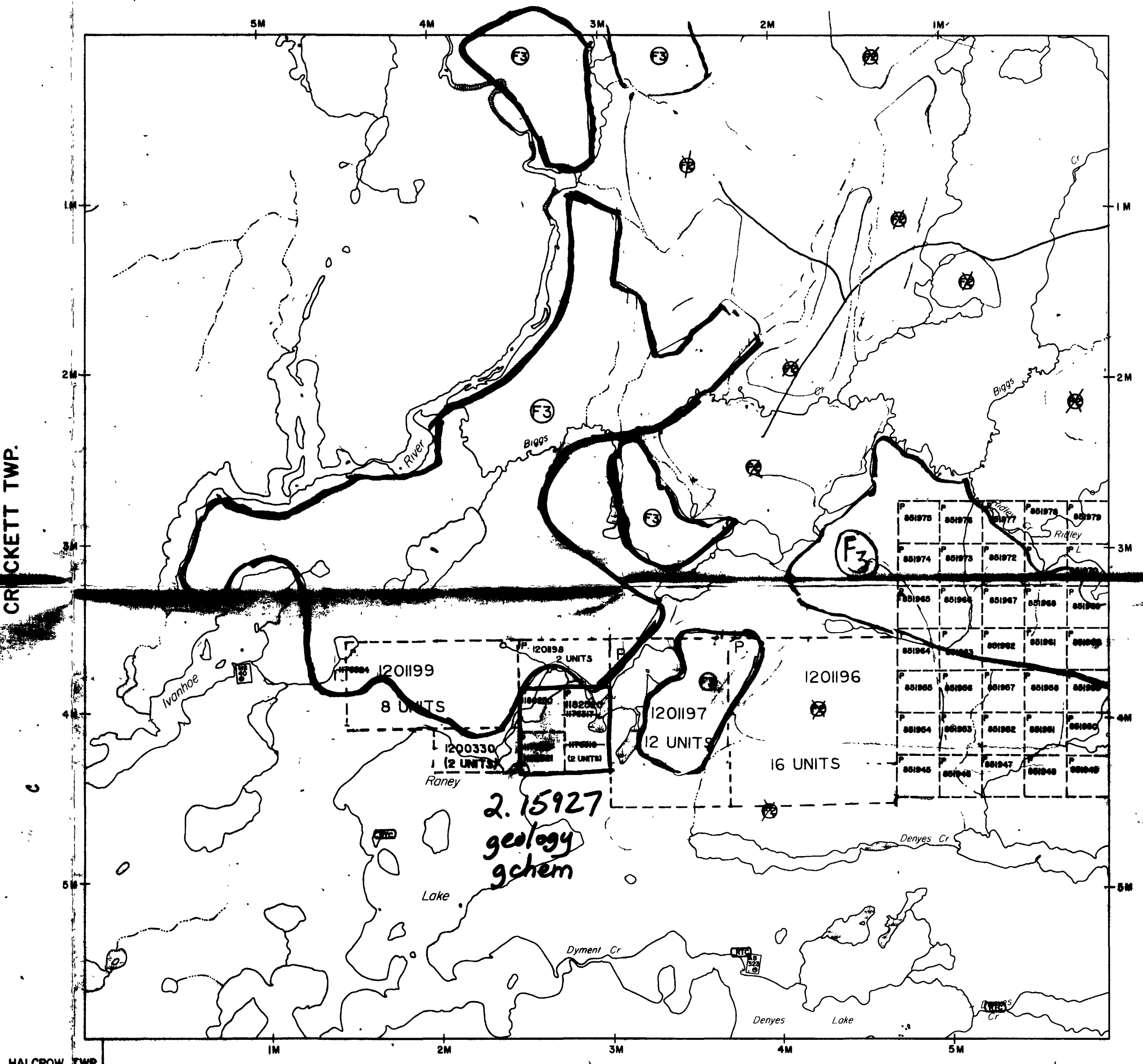
cc: Resident Geologist  
Timmins, Ontario

✓ Assessment Files Library  
Sudbury, Ontario

AREAL DISPOSITION OF LAND RIGHTS  
 CLASSIFICATION ONLY  
 SURFACE RIGHTS ONLY  
 SURFACE RIGHTS AND SURFACE RIGHTS

THIS TWP IS SUBJECT TO FOREST ACTIVITY IN 1993/94  
 1995/96 AS PER INFORMATION ON FILE  
 1995/96

HELLYER TWP.



CRICKETT TWP.

HOLLO TWP.

HALCROW TWP.

DENYES TWP.

2.15927  
 geology  
 gchem

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM AVAILABLE SOURCES AND SHOULD BE NOT QUANTIFIED. THOSE HAVING INTERESTS IN THE LANDS SHOWN SHOULD CONSULT WITH THE MINING DIVISION OF THE MINISTRY OF NATURAL RESOURCES AND DEVELOPMENT FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN THEREON.

LEGEND

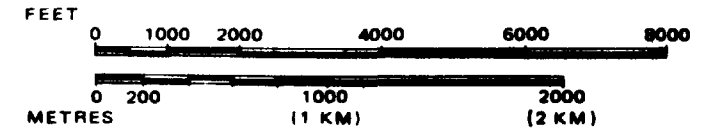
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:  
 TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:  
 LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	□
" MINING RIGHTS ONLY	◑
LICENCE OF OCCUPATION	◔
ORDER-IN-COUNCIL	OC
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○
REMOTE TOURIST CAMP	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1

SCALE: 1 INCH = 40 CHAINS



ISSUED

TOWNSHIP 2.15927

RANEY PORCUPINE MINING DIVISION

M.N.R. ADMINISTRATIVE DISTRICT

CHAPLEAU RECEIVED

MINING DIVISION APR 3 1995

PORCUPINE MINING LANDS BRANCH

LAND TITLES / REGISTRY

SUDBURY

Ontario Ministry of Natural Resources Land Management Branch

Date MARCH, 1985 Number

ACTIVATED JUNE 30, 1992 BY D.C. G-3245



C-3542

**LEGEND**

**INTRUSIVES**

- 6 Gabbro/Diorite
- 5 Quartz-Feldspar Porphyry

**METAVOLCANICS AND METASEDIMENTARY ROCKS**

- 4 Metasedimentary Rocks (Argillite and Metagreywacke)
- 3 Felsic to Intermediate Tuffs (including waterlain tuff and chert layers)
- 2 Mafic to Intermediate Tuffs
- 1 Mafic to Intermediate Flows (massive to pillowed)

- Geological Contact
- Foliation (vertical, inclined)
- Bedding (vertical, inclined)
- Intense Shear Zone
- Trench
- Diamond Drillhole
- Road
- Swamp

- Claim Post; location known
- Claim Post; location assumed
- Witness Post; location known
- Witness Post; location assumed

**GEOCHEMISTRY**

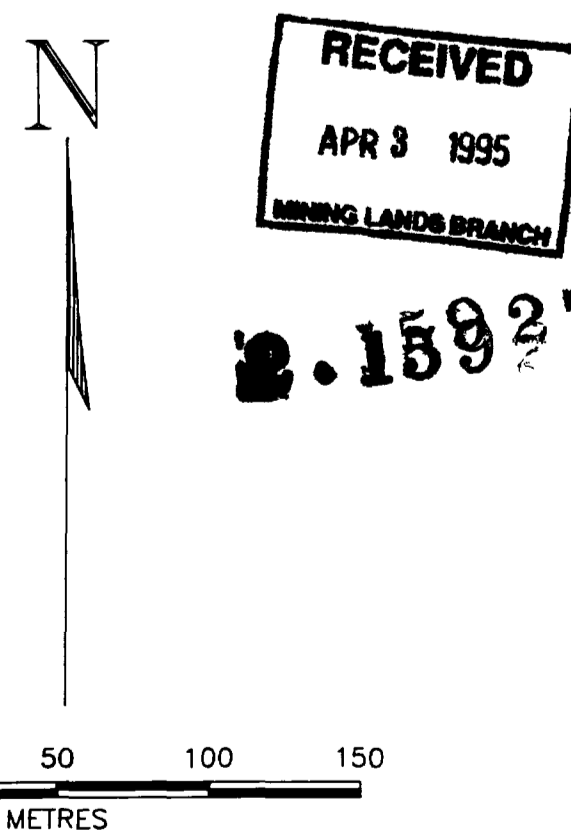
- +5 ppb Au
- Zone of Geochemical Interest

**GEOPHYSICAL INTERPRETATION**

- CHARGEABILITY**
- Anomaly at surface
  - Anomaly at depth (estimate in metres)
  - Questionable Interpretation
  - Anomalous response not fully surveyed
  - Contact
  - Correlating resistivity high
  - Anomaly amplitude: weak, mod., strong v.strong

- VLF-EM**
- Anomaly amplitude (high, moderate, low)
  - Continuity

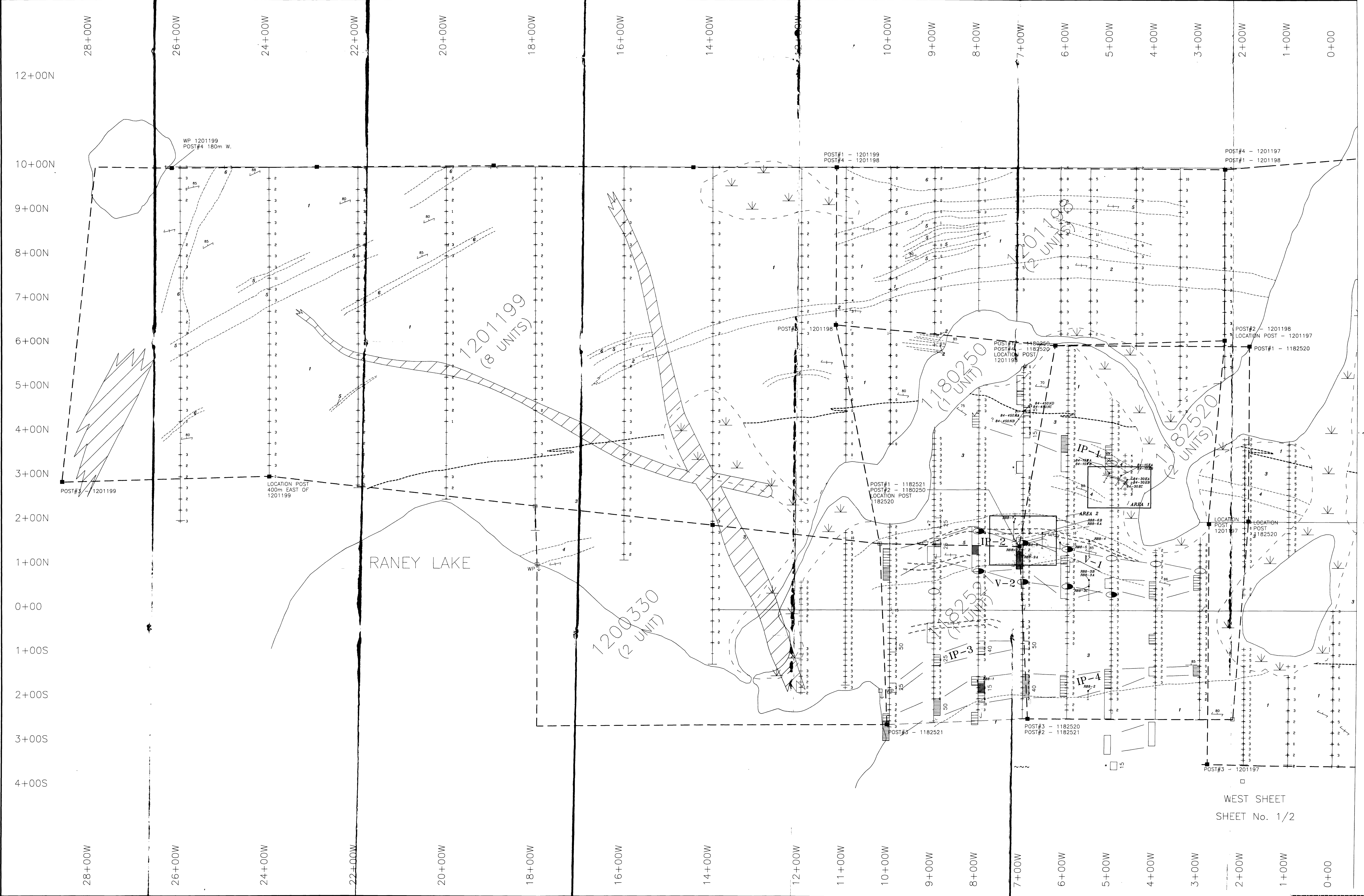
- MAGNETICS**
- Magnetic high



CREE LAKE RESOURCES CORP.  
 RANEY LAKE PROPERTY  
 COMPILATION MAP  
 40 O/15 SW  
 WEST SHEET

PROJECT NO: 1502	BY: A. Thelin / J. Hamilton
SCALE: 1:2,500	DRAWN: MPH TORONTO
REP NO: 2	DATE: NOV. 1993

MPH CONSULTING LIMITED



WEST SHEET  
 SHEET No. 1/2

- LEGEND**
- INTRUSIVES**
- 6 Gabbro/Diorite
  - 5 Quartz-Feldspar Porphyry
- METAVOLCANICS AND METASEDIMENTARY ROCKS**
- 4 Metasedimentary Rocks (Argillite and Metagreywacke)
  - 3 Felsic to Intermediate Tuffs (including waterlain tuff and chert layers)
  - 2 Mafic to Intermediate Tuffs
  - 1 Mafic to Intermediate Flows (massive to pillowed)

- GEOLOGICAL INTERPRETATION**
- Geological Contact
  - BO / Foliation (vertical, inclined)
  - BD / Bedding (vertical, inclined)
  - Intense Shear Zone
  - Trench
  - Diamond Drillhole
  - S-8101 / 1993 Sample Location
  - ▲ 22301 / Pre-1993 Sample Location
  - Float Sample
  - Outcrop
  - Swamp
  - Topographic Break
  - Claim Post; location known
  - Claim Post; location assumed
  - Witness Post; location known
  - Witness Post; location assumed
  - Claim Boundary
  - Road

2.15927 N

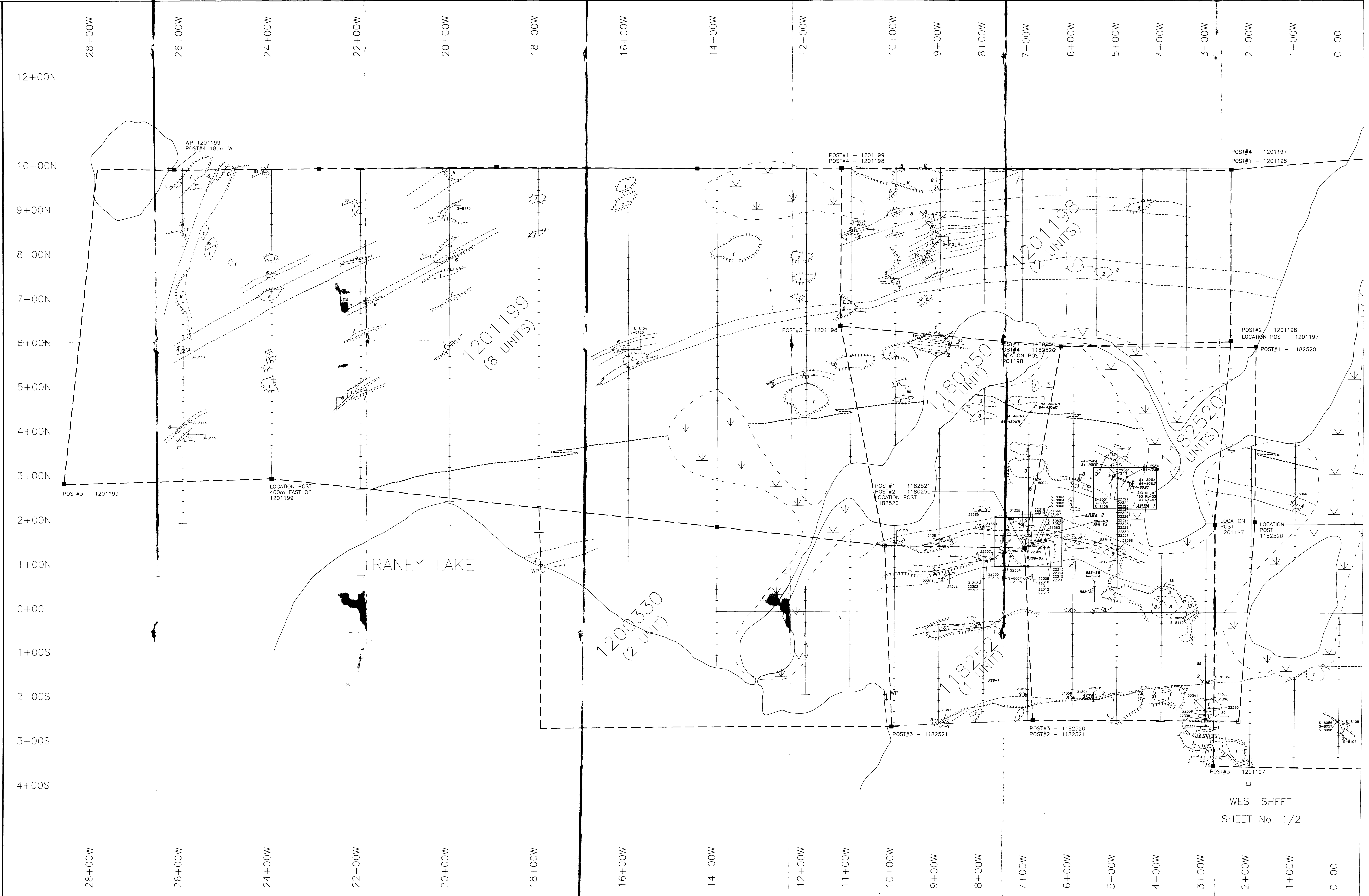
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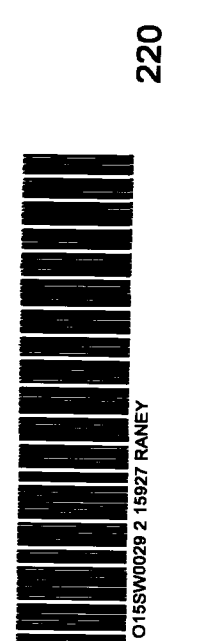
CREE LAKE RESOURCES CORP.  
RANEY LAKE PROPERTY  
GEOLOGY MAP  
40 O/15 SW  
WEST SHEET

PROJECT NO: 1502	BY: A. Teague / J. Hamilton
SCALE: 1:2,500	DRAWN: MPH TORONTO
MAP NO: 1	DATE: NOV. 1993

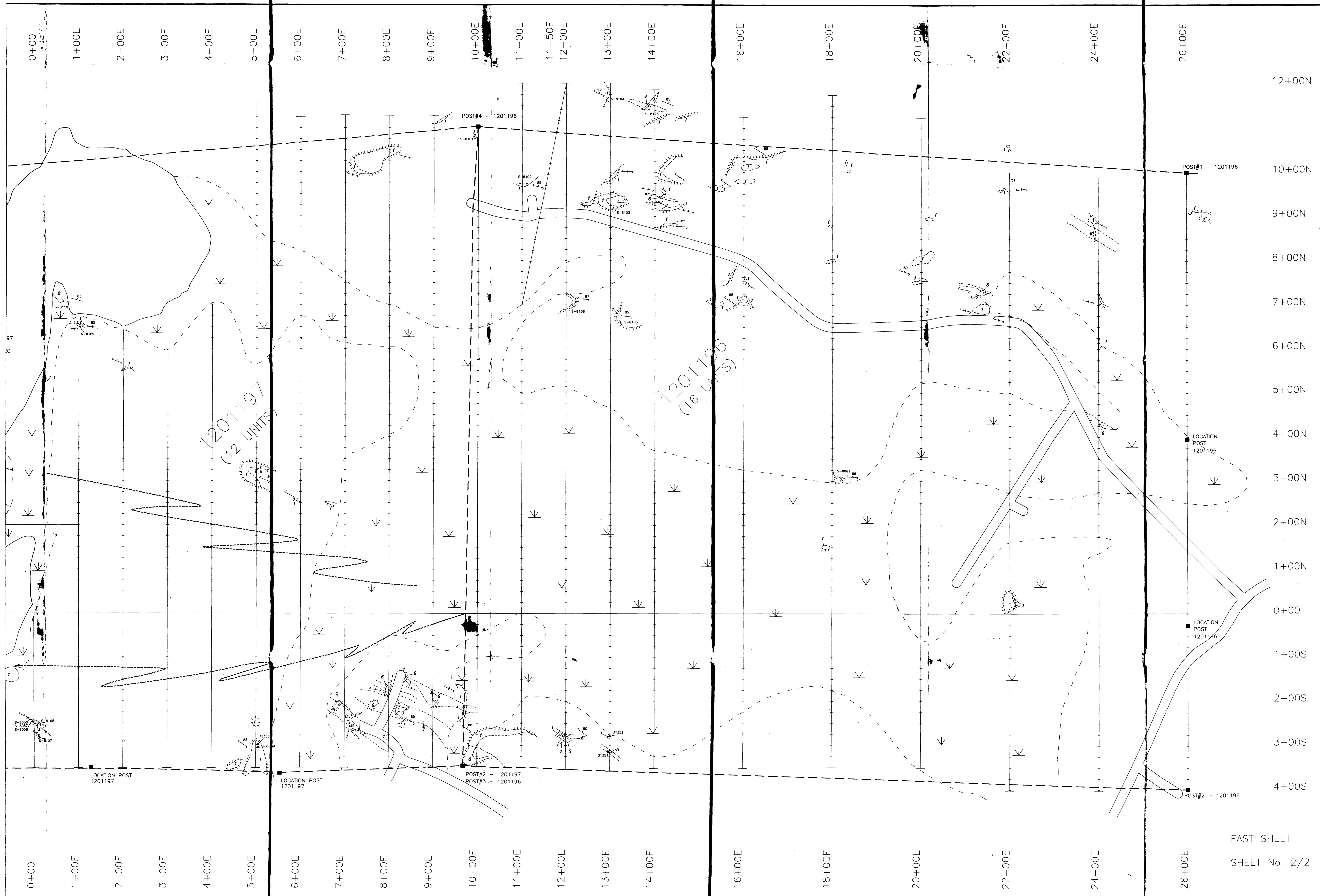
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WEST SHEET  
SHEET No. 1/2







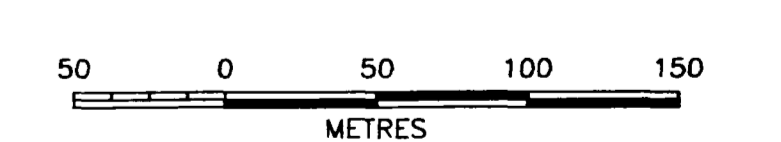
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EAST SHEET  
SHEET No. 2/2



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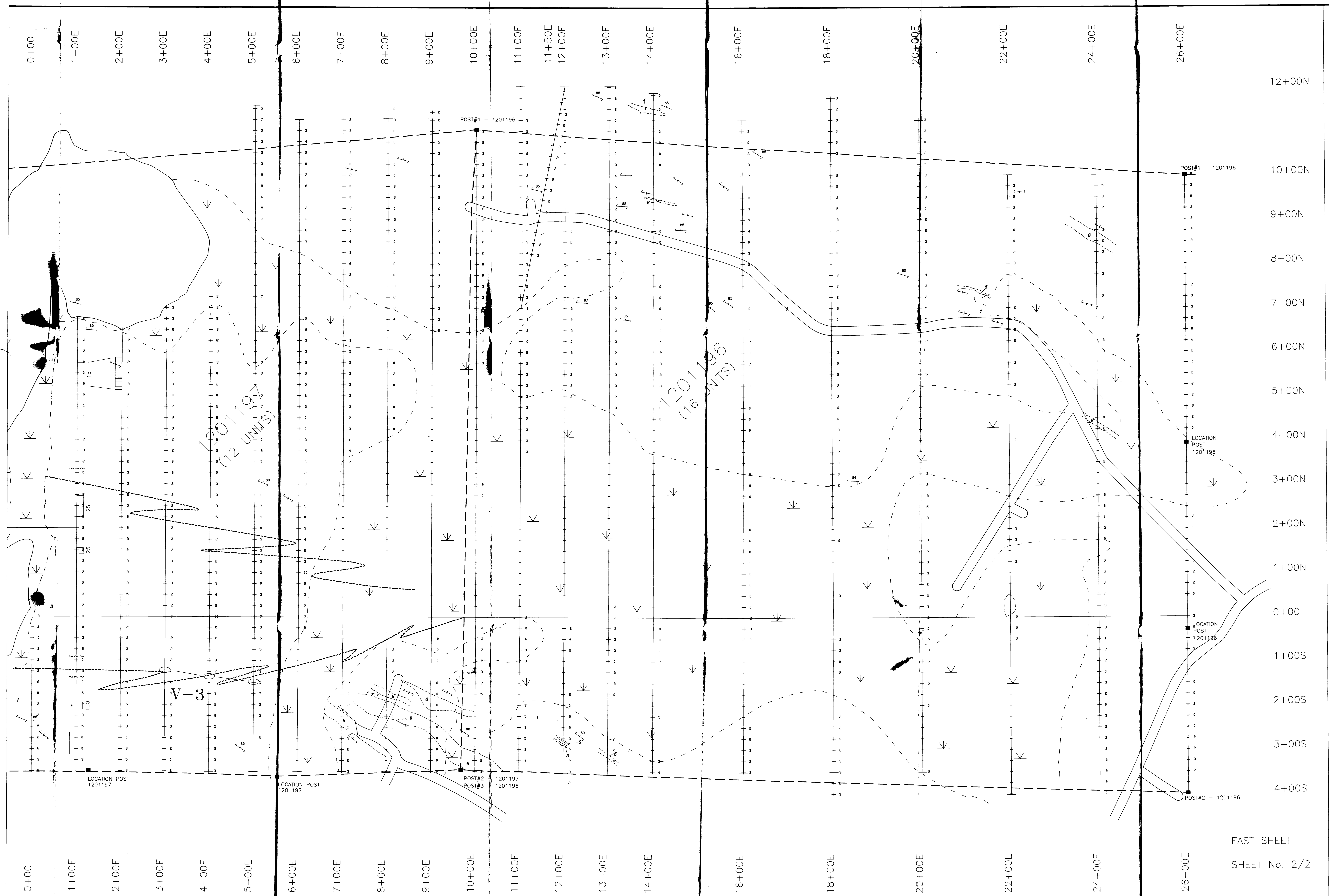
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CREE LAKE RESOURCES CORP.  
RANEY LAKE PROPERTY  
GEOLOGY MAP  
40 0/15 SW  
EAST SHEET

PROJECT NO: 1502	BY: A. Thain / J. Hamilton
SCALE: 1:2,500	DRWN: MPH TORONTO
MAP NO: 1	DATE: NOV. 1993

**MPH** MPH CONSULTING LIMITED

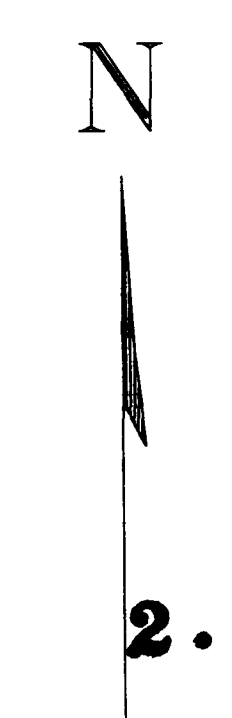


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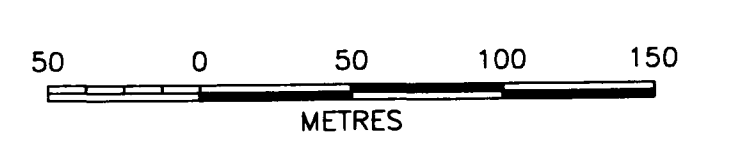
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EAST SHEET  
SHEET No. 2/2



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CREE LAKE RESOURCES CORP.  
RANEY LAKE PROPERTY  
COMPILATION MAP  
40 0/15 SW  
EAST SHEET

PROJECT NO: 1502	BY: A. Thein / J. Hamilton
SCALE: 1:2,500	DRAWN: MPH TORONTO
MAP NO: 2	DATE: NOV. 1993

**MPH** MPH CONSULTING LIMITED