

31M04NE0014 OP93-654 BEST

010

**AN**

**OPAP REPORT SUMMARY**

**ON**

**THE GRANITE-JAMES LAKE BASE-METAL**

**PROPERTY**

**Temagami, Ontario**

**Cobalt, Ontario  
December 30, 1993**

**Gino Chitaroni  
Geologist**



31M04NE0014 OP93-654 BEST

010C

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\* Maps, Correspondence, Receipts are in separate folders.

## INTRODUCTION

In the 1993 field season, a geophysical grid line cutting, surveying and manual stripping/sampling program was conducted over the Granite-James Lake Property. The program occurred over a period of several months at intermittent intervals from May 15th to December 30th 1993. The geophysical survey was conducted over a grid cut with 100 metre crosslines and 25 metre stations using electromagnetic and magnetic methods. McBride Staking and Meegwich Inc was employed to do this task. The manual stripping section of the exploration program was conducted by the author's company Target Geological Services. Manual stripping was employed in three areas: (a) the Cuniptau Silica Deposit, (b) Northland Pyrite Mine south extension, and (c) Central Strip Zone #2 CuNiCo occurrence.

The program's objective was to assess these specific areas' for their economic metal potential. The metals sought were, in order of importance, the following: copper, nickel and cobalt with possible associated precious metals gold, silver and platinum group metals in the magmatic and associated shear zone depositional settings. Copper, lead, and zinc metal assemblages were examined in the volcanogenic massive sulphide (VMS) depositional setting as well. During the course of the field season several other minor metals were also examined, most notably molybdenum.

**LOCATION/ACCESS/INFRASTRUCTURE**

**Location/Claim Group:**

The 19 unpatented (28 unit) claim group covers over 1000 acres of land and water in the James Lake and Granite Lake areas of Best Township approximately 8 miles north of the town of Temagami, Ontario. Temagami is located about 300 miles of north of the city of Toronto, Ontario via the Trans-Canada highway network. (Fig 1&2)

**Claim Numbers:**

|     |          |        |     |          |         |
|-----|----------|--------|-----|----------|---------|
| 1)  | #1118862 | 1 unit | 11) | #1165505 | 1 unit  |
| 2)  | #1118864 | 1 unit | 12) | #1165506 | 1 unit  |
| 3)  | #1118502 | 1 unit | 13) | #1118500 | 1 unit  |
| 4)  | #1179178 | 1 unit | 14) | #1118507 | 1 unit  |
| 5)  | #1118863 | 1 unit | 15) | #1118498 | 1 unit  |
| 6)  | #1179177 | 1 unit | 16) | #1179080 | 1 unit  |
| 7)  | #1179176 | 1 unit | 17) | #1179179 | 4 units |
| 8)  | #1179077 | 1 unit | 18) | #1165508 | 2 units |
| 9)  | #1179078 | 1 unit | 19) | #1165507 | 6 units |
| 10) | #1179079 | 1 unit |     |          |         |

**Access/Infrastrucure:**

The property has an excellent all weather paved highway road, "Highway 11 or Trans-Canada Highway - northern route", access that that traverses the heart of the claim group southwest to northeast.

Power and telephone lines accompany and parallel Highway 11.

The O.N.R. railway traverses the eastern portion of the claim group while, carrying along its right of way another powerline.

The Trans-Canada Pipeline also roughly parallels Highway 11 across the claim group.

Water is readily accessible from Granite and James Lakes.

Several tertiary gravel roads run along the pipeline and east-



TEMAGAMI TOWNSHIP MUNICIPALITY

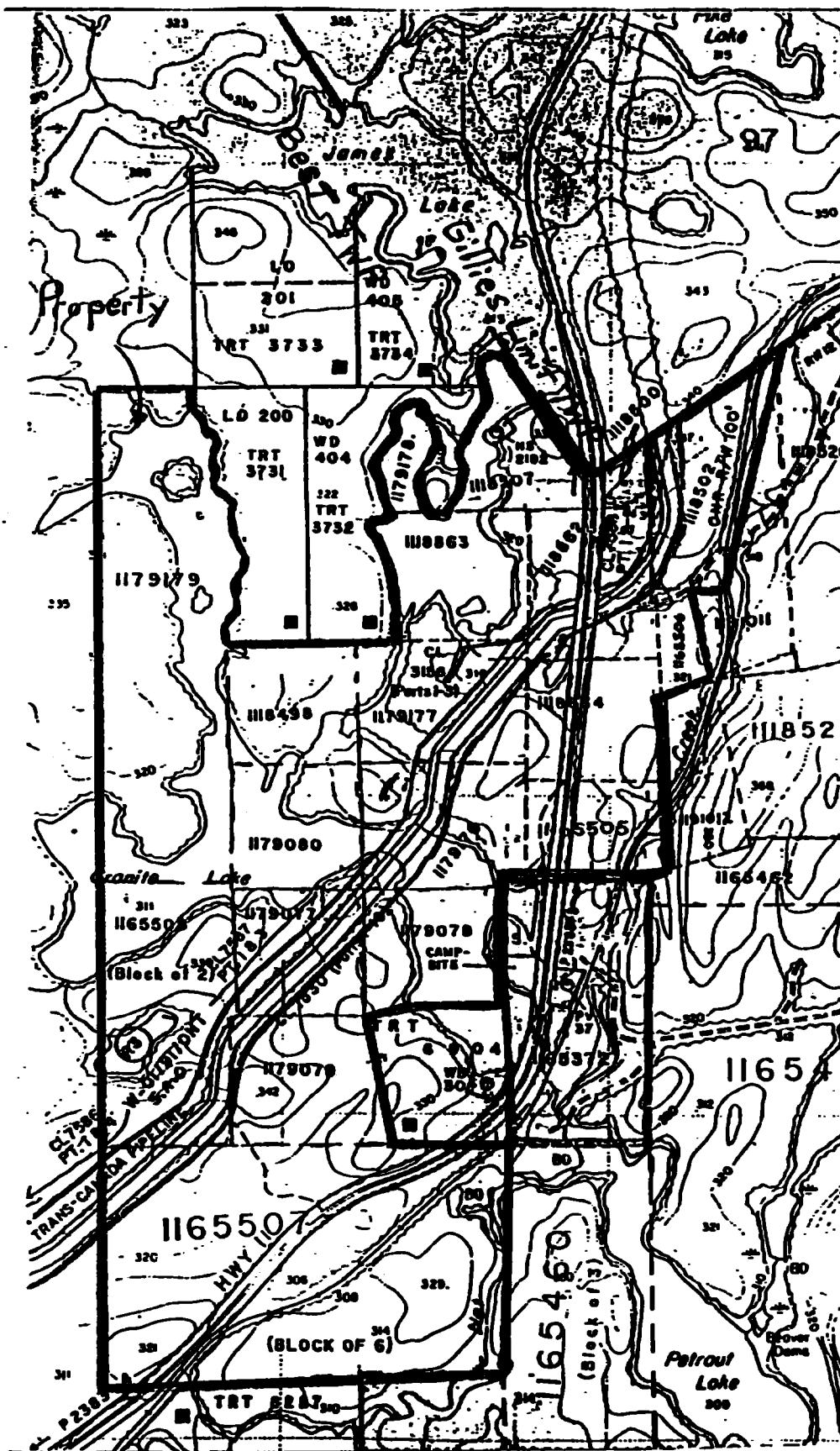
Property

Temagami North  
Recreation  
Water & Combs  
Sanitation

Temagami

FINLAYSON POINT  
PROVINCIAL PARK

FIG. 1



Claim Location Map

Granite-James Lake Base-Metal Property

west through the claim group (a) Rib Lake Road, (b) James Lake Road, (c) Roosevelt Road besides a number of skidder trails that accesses nearly every claim.

The nearby mining and service towns of Temagami and the Cobalt-Haileybury-New Liskeard area provide excellent community and industrial related supplies and associated services infrastructure.

#### BRIEF PROPERTY HISTORY

The Granite-James Lake area has been fairly well prospected by a number of mining companies prior to 1972. No exploration was conducted from 1972 to 1992 due to the Temagami Land Caution; which effectively curtailed all exploration efforts in the entire area.

An extensive geological and historical compilation report was completed for the author by Mr. Art Beechan, Geologist covering the whole Granite-James Lake region -- this however is not included in this report but will accompany future geological reports.

Metals sought in previous exploration programs were: nickel, copper and other base-metals, sulphur, precious metals and molybdenum. (see inserted location maps, etc.)

#### 1993 FIELD PROGRAM

In the 1993 field season beginning in mid-May, intermittently, through to the end of December a diverse exploration program was

conducted including: prospecting, manual stripping, sampling, line-cutting and geophysical surveying.

In May, June and July, the Cuniptau Silica Deposit, the Northland Pyrite Mine southern extension and a trench on the Central Strip Zone #2 CuNiCo occurrence were manually stripped and the bedrock /mineralization exposed. Also, some minor geological mapping followed over the manually stripped Northland Pyrite Mine and its south extension and the Central Strip Zone #2 combined with the previously stripped Rib Lake Road Copper Occurrence and the Nicmetz Copper Occurrence. (see accompanying maps)

In September, McBride Staking completed 27.1 kilometers of line-cutting over most of the Granite-James Lake Property. (see maps)

Minor geological mapping followed in November over the manual stripped Cuniptau Silica Deposit area but snow impeded more detailed work. (see maps)

In December, Meegwich Inc. was contracted to conduct a VLF electromagnetic and magnetometer magnetic survey over the geophysical grid. It was decided that areas of granite bearing rocks would be left out of the survey area as well as VLF work east of the Trans-Canada highway due to cost.

## RESULTS

The 1993 field program was successful in delineating the



following conclusions:

1) The Cuniptau Silica Deposit is enriched with modestly high grade values of silica 1,300ft long by 75-125ft wide in the heart of the enrichment zone bounded by Highway 11 to the southwest and the O.N.R. Railway to the northeast. Typical values of silica (SiO<sub>2</sub>) range from 90% to 98%.

The enrichment zone was also found exposed further to the southwest across Highway 11 by 650ft and to the northeast across the railway tracks 800ft for a total length of 2,750ft -- and still open along strike length in both directions.

Typical heights of the deposit ranges on average between 10-15ft; not including a section forming a steep scarp or hill east of Highway 11, (southwest corner bounded by the highway) averaging in a range from 25ft to 90ft high while trending for 500ft in strike length.

Ultimate depth of the deposit is unknown?

In the extreme northeast exposure of the deposit on to neighboring claims, which have been recently acquired, the deposit seems to have split into two zones with grey altered granite or porphyry separating them. This observation, if true, somewhat agrees with a parallel section of silica enrichment north northwest of the silica deposit that forms part of a rock-cut along Highway 11. This open-cut and the part of the silica deposit was mapped previously by Danlou Mines around the year 1961.

2) The Danlou Gold Occurrence, which is located immediately south

of the Cuniptau Silica Deposit was examined.

Two muck dump samples ran gold values with the best being .16oz/ton gold; however, gold values in the quartz veins appeared inconsistent. Mineralization in these quartz veins contained visible, stringer-chalcopyrite, pyrite, minor arsenopyrite and galena. The gold content appears to be tied to the relative amounts of the chalcopyrite and arsenopyrite in the veins.

The Danlou showing was found within a shear zone of highly altered "juiced-up" grey granite or quartz porphyry and Matachewan, diabase dyke "greenstone" (as referred to by Danlou Mines). The shear zone was found to carry a number of irregular shaped quartz veins ranging from several inches to, and as large as, 2 feet wide. This type or style of veining is typical of the conditions found near or next to the silica enrichment zone and the zonation or alteration grey granite area located near the contact with/of the Matachewan diabase dyke. Grades of silica in this rock type range from 80% - 90%.

Very little work was done on the Danlou showing for its gold potential in this program. Yet, the "Danlou gold occurrence" was verified.

3) The eastern pyritiferous zone of the Northland Pyrite Mine was followed from north to south from thr United Reef Petroleums Ltd's ground on to the Chitaroni claims. This zone was manually stripped for 450ft on the Reef ground and another 200ft on to the Chitaroni.

Moderately high values of pyrite was encountered all along strike, thereby verifying the existence of the eastern "Northland

pyrite zone". Pyrite values were found contained up to 40-50% in the massive form but more constantly found in the disseminated condition range of 10-25%. The Pyrite zone was contained in what was believed to be a felsic volcanic unit which could be confused with the nearby granite closely in contact some less than tens of feet to the west. However, with the assistance of the Cobalt Resident Geologist, Jim Ireland, closer inspection revealed the presence of silica enrichment and brecciation characteristic of a "crystal tuff" as well as the presence of massive flow rock; therefore, both rock types have been termed rhyolitic in composition. This felsic zone was bounded to the east by mafic flow volcanics and minor graphitic sediments to the northwest, found in the strip area only thus far, but chiefly granitoid rocks to the immediate west of the pyrite zone contact. The eastern pyrite zone was not followed further to the south because of the presence of deeper and deepening overburden cover. The zone curtailed at a 6' \* 8' \* 10' deep pit; with the dump showing moderately pyritized rhyolite flow and some crystal tuff rocks. Mechanical means of stripping would have to be employed to uncover the balance of this pyrite zone.

The pyritized zone did reveal very minor chalcopyrite while 1-3% sphalerite was observed in the graphitic sediments.

4) A geophysical survey conducted by Meegwich Inc. is provided accompanying this report. The results of the VLF and magnetometer surveys will be discussed in that report on its own merits.

## RECOMMENDATIONS

Based on the data and results gathered in this report and the author's knowledge gained from previous exploration activities, in conjunction with, the recent geophysical survey program; it is recommended that the following exploration procedures should be employed to further assess the Granite-James Lake Property:

### Base-Metal/Nickel-Cobalt Exploration:

1. A detailed geological survey be conducted in the near future.
2. Follow-up ground geophysical surveys should be used to enhance, any and all, known geophysical conductors with deep defining electromagnetic methods -- especially along the strike length of the two major pyrite zones of the Northland Pyrite Mine and the zones to the east, parallel to this structure!
3. On secondary geophysical conductor targets a manual and power stripping program followed by sampling can aid greatly to their exploration value.
4. Similarly, exposed sulphide zones should be further opened up and sampled, namely: (a) the "central strip zone" CuNiCo occurrence, (b) the "south strip zone" CuNiCo occurrence, (c) the southern extension of the west pyrite zone of the Northland Purite Mine, and (d) the ACANA #5 CuNi-PtPd occurrence.

5. **Diamond Drilling could follow-up any of the old and new geophysical leads.**

However, Down-Hole geophysics could be employed inconjunction with this drilling program.

(a) **Deep drilling on or near the pyrite zones of the Northland Pyrite Mine would be highly recommended to assess the down dip extention of these zones and, subsequently, the possibility of economic mineralization. Recommended vertical depth 1,200-1,500ft.**

(b) **Down-Hole geophysics could also be employed to guide this deep drilling.**

(c) **Other areas in the claim group also warrant diamond drilling of at least shallow depths -- typically less than 300ft vertical depth.**

**Cuniptau Silica Deposit:**

1) **Manual and power stripping to futher extend the deposit to the south and the north.**

2) **Prospecting to find parallel deposits.**

3) **Detailed geological mapping to better define dimensions for economic feasibility studies.**

4) **Bulk sampling to test the deposit material in the silica brick process; also possibly for flux purposes.**

5) **Test percussion or air trak drilling to test drill cuttings for silica content and impurities -- and assess the depth**

component of the deposit.

**Danlou Gold Occurrence:**

- 1) Detailed geological mapping to follow-up the gold bearing shear zone -- in conjunction with mechanical stripping and sampling of the shear zone.
- 2) Further prospecting could follow to check possible parallel zones and further along strike extensions.

This part of the program could run in conjunction congruently with the Cuniptau exploration program.

**RECENT DEVELOPMENTS**

- An agreement in principle has been reached with the Temagami Brick Company for the Cuniptau Silica Deposit.
- The Cobalt Resident Geologist, Jim Ireland, and staff has visited the property in the summer of 1993.
- Finnish mining giant Outokumpu sent research student geologists to the property in 1993 lead by Mr. Paul Davis.
- Falconbridge Exploration Ltd has expressed continued interest in the property, inasmuch, that they recommended the emplacement of a geophysical grid and survey; thus foregoing the need for airborne geophysical surveying as they have already completed the area.  
Negotiations are on-going.
- Other companies expressing an interest in 1993 are:

Queenston Mining, Vera Cruz Minerals, EGO Resources, Bensuro Holdings and Asquith Res..

- Lastly, an exploration disruption occurred when during the summer months of 1993 highway and pipeline construction incurred damages on the Granite-James Lake Property, most notably, burrying the "north strip zone" or Rib Lake Road Copper Occurrence under thousands of tons of road waste material. The dispute is on-going at the time of this writing with the Miningand Lands Commissioner notified.

- Meegwich report in separate report folder. Note only one Meegwich report submitted to OPAP prospector's assistance program as it was already submitted previously for assessment work.

## STATEMENT OF COSTS

1) Line Cutting \$ 5,962.00

McBride Staking (Sept. 15 - 29, 1993)  
 - 27.1km line plus Baseline @ \$220.00/km  
 100m cross lines with 25m stations

2) Geophysical Surveying \$ 6,527.00

Meegwich Inc. (Dec. 1 - 15, 1993)  
 - magnetometer 32.25km @ \$100.00/km  
 = \$3,225.00.  
 - VLF 25.0km @ \$95.00/km  
 = \$2,375.00.  
 - Geophysical Report  
 = \$500.00.  
 - GST tax  
 = \$427.00

3) Labour \$17,100.00

A. Gino Chitaroni (May 15 - Dec 30, 1993)

i) - Supervisor Geophysical survey and grid  
 -- \$28.125/hr @ 8hrs/day;  
 5 days \* \$225/day = \$ 1,125.00

ii) - Manual Labour, Sampling, Geological  
 Mapping, Prospecting, Site-Preparation  
 -- \$28.125/hr @ 8hrs/day;  
 35 days \* \$225/day = \$ 7,875.00

iii) - Report Making/Preparation  
 -- \$28.125/hr @ 8hrs/day;  
 4 days \* \$225/day = \$ 900.00

B. Mike Keon (May 21 - June 30, 1993)

- Manual Labour (six weeks) \$ 3,600.00  
 - Hand Stripping, Outcrop Cleaning,  
 Brushing and Prospecting + Expenses.  
 -- \$15/hr @ 8hrs/day \* 30 days

c. Barry Stewart (May 21 - June 30, 1993)



(ii)

- Manual Labour (six weeks) \$ 3,600.00
- Hand Stripping, Outcrop Cleaning,  
Brushing and Prospecting + Expenses.  
-- \$15/hr @ 8hrs/day \* 30 days

4) Assays \$ 350.00

- Whole Rock, Precious Metal and Base-Metal  
Packages.

5) Mileage \$ 900.00

- Gino Chitaroni 1/2 Ton Truck V8  
-- 30 days Cobalt to Temagami 100km  
per Round Trip = 3,000km \* \$.30/km

Project Cost Total \$30,839.00

**CERTIFICATE OF QUALIFICATIONS**

**I, Gino P. Chitaroni, B.Sc. of Cobalt, Ontario, hereby certify as follows:**

- 1. I am a graduate of the Haileybury School of Mines, Northern College, Ontario, and hold a Technologist's Diploma in Mining Engineering (1985). In addition, I am a graduate of Lake Superior State University, Sault Ste. Marie, Michigan, U.S.A. and hold a Bachelor of Science Degree in Geology (1988).**
- 2. I have actively engaged in mining, prospecting and mineral exploration work and studies for twelve years.**
- 3. This report is based upon my personal physical examination and investigation of the property and its relevant maps and documents pertaining to the outlined areas referred to in this report. To the best of my knowledge and ability, all information on the above and within report, is factual, correct and true.**
- 4. I am the recorded claim holder and owner of the property.**
- 5. I hereby consent to the inclusion of my name and report as deemed necessary for any purpose of financial accountability, government inspection or fact finding, and for use in the property's promotion to the mining sector.**

**Dated at COBALT, ONTARIO this 30th day of December, 1993.**



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**Gino P. Chitaroni, B.Sc.  
Geologist/Prospector**

**A P P E N D I X**  
**Sampling Statistics & Assays**

SAMPLING STATISTICS

(a)

|     | <u>Sample#</u> | <u>Sample Method</u> | <u>Description</u>   |
|-----|----------------|----------------------|--|
| 1.  | 8152           | Composite Chip       | - Bull-white quartz "Cuniptau Silica Deposit"  |
| 2.  | 8153           | ditto                | - Grey granite/quartz porphyry with numerous quartz veins  |
| 3.  | 8274           | ditto                | - Grey granite -- highly altered   |
| 4.  | 8252           | ditto                | - Grey granite   |
| 5.  | 8264           | ditto                | - Grey granite   |
| 6.  | 8179           | ditto                | - White-grey quartz "Cuniptau Silica Deposit" -- sampled in the winter months with soil contamination  |
| 7.  | 8266           | ditto                | - Pyritized rhyolite with 20-30% pyrite  |
| 8.  | 8272           | ditto                | - Pyritized rhyolite with some brecciation, 10-15% py  |
| 9.  | 16760          | ditto                | - Volcanic diabasic flow rock 15-20% magnetite, 5-10% pyrite and 2-5% chalcopyrite   |
| 10. | 16758          | Chip                 | - Volcano-sedimentary chert zone (sulphides not targeted)  |
| 11. | 16761          | Composite Chip       | - Volcano-sedimentary chert zone (sulphides not targeted)  |
| 12. | 18349          | Composite Chip/Muck  | - Massive sulphides in volcano-sedimentary laminated siliceous chert zone containing 40-50% pyrrhotite and/or pentlandite, 15% pyrite, 10-15% chalcopyrite |
| 13. | 8265           | Chip                 | - Grey granite/quartz porphyry with 2% py  |
| 14. | 8181           | ditto                | - Grey-white quartz "Cuniptau Silica Deposit" -- sampled in the winter   |
| 15. | 8176           | ditto                | - Green-white quartz "Cuniptau Silica Deposit" -- sampled in   |

(b)

the winter

- |     |      |                     |  |
|-----|------|---------------------|--|
| 16. | 8177 | ditto               | - Green-white quartz "Cuniptau Silica Deposit" -- sampled in the winter                    |
| 17. | 8275 | ditto               | - Matachewan diabase dyke with 40% green epidote mineralization and 5-10% magnetite        |
| 18. | 8180 | Composite Chip      | - Reddish-brown quartz "Cuniptau Silica Deposit" with minor iron staining                  |
| 19. | 8269 | ditto               | - Greenstone (diabase) and grey granite/porphyry hybrid rock with minor pyrite             |
| 20. | 8178 | ditto               | - Grey granite/quartz porphyry with minor pyrite -- sampled in the winter                  |
| 21. | 8263 | Composite Chip/Muck | - Danlou "Au" Occurrence quartz zone, 2-5% py, 2-3% cpy with minor galena and arsenopyrite |
| 22. | 8267 | ditto               | - Ditto  |



# ACCURASSAY LABS

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G3  
(807) 623-6448 FAX 623-6820

Target Geological Services

5-Feb-93

Attn: Mr. Gino Chitaroni  
Job: 934009

Page: 2  
Received: 13-Jan-93

| Sample | SiO <sub>2</sub><br>% | AlO <sub>3</sub><br>% | Fe <sub>2</sub> O <sub>3</sub><br>% | MgO<br>% | CaO<br>% | Na <sub>2</sub> O<br>% | K <sub>2</sub> O<br>% | P <sub>2</sub> O <sub>5</sub><br>% |
|--------|-----------------------|-----------------------|-------------------------------------|----------|----------|------------------------|-----------------------|------------------------------------|
| F-8176 | 93.74                 | 0.36                  | 1.62                                | 0.15     | 0.03     | 0.02                   | 0.15                  | 0.049                              |
| F-8177 | 98.63                 | 0.56                  | 1.69                                | 0.31     | 0.03     | 0.25                   | 0.33                  | 0.021                              |
| F-8178 | 82.29                 | 8.04                  | 2.22                                | 0.92     | 0.16     | 5.52                   | 0.22                  | 0.158                              |
| F-8179 | 89.64                 | 4.06                  | 1.45                                | 0.49     | 0.03     | 2.10                   | 0.60                  | 0.049                              |
| F-8180 | 93.49                 | 0.01                  | 1.31                                | 0.08     | 0.03     | 0.02                   | 0.48                  | 0.049                              |
| F-8181 | 92.88                 | 0.54                  | 1.25                                | 0.30     | 0.04     | 0.64                   | 0.35                  | 0.029                              |
| F-8182 | 75.09                 | 12.50                 | 2.01                                | 0.40     | 0.05     | 6.73                   | 0.61                  | 0.069                              |

| Sample | TiO <sub>2</sub><br>% | MnO<br>% | BaO<br>% | Cr <sub>2</sub> O <sub>3</sub><br>% | SrO<br>% | LOI<br>% | TOTAL<br>% |
|--------|-----------------------|----------|----------|-------------------------------------|----------|----------|------------|
| F-8176 | 0.020                 | 0.009    | 0.067    | 0.011                               | 0.001    | 0.4      | 96.6       |
| F-8177 | 0.035                 | 0.014    | 0.007    | 0.013                               | 0.001    | 0.4      | 102.3      |
| F-8178 | 0.140                 | 0.021    | 0.006    | 0.016                               | 0.011    | 1.0      | 100.1      |
| F-8179 | 0.057                 | 0.012    | 0.011    | 0.010                               | 0.003    | 0.8      | 99.1       |
| F-8180 | 0.019                 | 0.009    | 0.019    | 0.019                               | 0.001    | 0.4      | 95.9       |
| F-8181 | 0.025                 | 0.011    | 0.006    | 0.014                               | 0.001    | 0.6      | 96.6       |
| F-8182 | 0.091                 | 0.026    | 0.012    | 0.017                               | 0.007    | 0.6      | 97.5       |



# ACCURASSAY LABS

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G3  
(807) 623-6448 FAX 623-6820

Target Geological Services  
P.O. Box 271  
Cobalt, ON  
P0J 1C0

5-Feb-93

Page: 1  
Status: Final

Attn: Mr. Gino Chitaroni  
Job: 934009

Received: 13-Jan-93

| Sample | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Ni<br>ppm | Co<br>ppm | Mn<br>ppm |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| F-8176 | 3         | 147       | 6         | 13        | 0.5       | 24        | 2         | 110       |
| F-8177 | 2         | 132       | 4         | 15        | 0.6       | 25        | 2         | 145       |
| F-8178 | 2         | 97        | 13        | 31        | 0.3       | 28        | 5         | 167       |
| F-8179 | 2         | 88        | <2        | 19        | 0.5       | 22        | 2         | 108       |
| F-8180 | 3         | 157       | 6         | 11        | 0.6       | 24        | 2         | 83        |
| F-8181 | 2         | 95        | 5         | 13        | 0.5       | 22        | 5         | 92        |
| F-8182 | 3         | 109       | 10        | 30        | 0.7       | 24        | 2         | 216       |

| Sample | Fe<br>% | As<br>ppm | Hg<br>ppm | Sr<br>ppm | Cd<br>ppm | Sb<br>ppm | Bi<br>ppm | V<br>ppm |
|--------|---------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| F-8176 | 1.23    | 6         | <3        | 4         | <1        | 2         | <3        | 4        |
| F-8177 | 1.32    | 8         | <3        | 8         | <1        | <2        | <3        | 7        |
| F-8178 | 1.48    | 15        | <3        | 107       | <1        | 3         | <3        | 14       |
| F-8179 | 1.16    | 6         | <3        | 32        | <1        | <2        | <3        | 11       |
| F-8180 | 1.08    | 5         | <3        | 4         | <1        | <2        | <3        | 4        |
| F-8181 | 1.04    | 10        | <3        | 13        | <1        | 9         | <3        | 6        |
| F-8182 | 1.33    | 17        | <3        | 65        | <1        | 2         | <3        | 4        |

| Sample | Ca<br>% | P<br>% | La<br>ppm | Cr<br>ppm | Mg<br>% | Ba<br>ppm | Ti<br>% | Al<br>% |
|--------|---------|--------|-----------|-----------|---------|-----------|---------|---------|
| F-8176 | 0.02    | 0.01   | <1        | 66        | 0.12    | 18        | 0.01    | 0.19    |
| F-8177 | 0.04    | 0.01   | <1        | 76        | 0.20    | 28        | 0.01    | 0.37    |
| F-8178 | 0.12    | 0.07   | 2         | 80        | 0.54    | 48        | 0.08    | 4.65    |
| F-8179 | 0.04    | 0.02   | 1         | 64        | 0.33    | 110       | 0.03    | 2.25    |
| F-8180 | 0.04    | 0.02   | <1        | 76        | 0.07    | 59        | 0.01    | 0.26    |
| F-8181 | 0.02    | 0.01   | <1        | 60        | 0.20    | 43        | 0.01    | 0.35    |
| F-8182 | 0.11    | 0.02   | 2         | 52        | 0.17    | 117       | 0.04    | 6.54    |

| Sample | Na<br>% | Si<br>% | W<br>ppm | Be<br>ppm |
|--------|---------|---------|----------|-----------|
| F-8176 | 0.16    | 0.03    | <2       | <1        |
| F-8177 | 0.29    | 0.06    | <2       | <1        |
| F-8178 | 4.13    | 0.18    | 2        | 1         |
| F-8179 | 1.70    | <0.01   | <2       | <1        |
| F-8180 | 0.06    | 0.01    | <2       | <1        |
| F-8181 | 0.58    | 0.07    | <2       | <1        |
| F-8182 | 5.49    | 0.19    | 5        | 1         |



Established 1928

# Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

## Geochemical Analysis Certificate

3W-1930-RG1

Company: **TARGET GEOLOGICAL SERVICES**

Date: JUL-15-93

Project:

Attn:

We hereby certify the following Geochemical Analysis of 15 ROCK samples submitted JUL-05-93 by .

| Sample Number | Au oz/ton | Au oz/ton | Ag oz/ton | Cu % | Pb %  | Zn % | Pd oz/ton | WR/ % |
|---------------|-----------|-----------|-----------|------|-------|------|-----------|-------|
| 8252          | NIL       |           |           |      |       |      |           |       |
| 8263          | 0.046     | 0.044     | 0.40      |      |       |      |           |       |
| 8264          | 0.002     |           |           |      |       |      |           |       |
| 8265          | NIL       |           |           |      |       |      |           |       |
| 8266          | NIL       |           | 0.01      |      |       |      |           |       |
| 8267          | 0.152     | 0.160     |           |      |       |      |           |       |
| 8268          | 0.002     |           |           | 0.01 |       |      |           |       |
| 8269          | 0.002     |           |           |      |       |      |           |       |
| 8270          | NIL       |           |           |      |       |      |           |       |
| 8271          | 0.002     |           | 0.73      | 3.06 | 0.001 | 0.88 |           |       |
| 8272          | NIL       |           |           |      |       |      |           |       |
| 8273          | NIL       |           | 0.03      | 0.09 | 0.007 | 0.82 |           |       |
| 8274          | NIL       |           |           |      |       |      |           |       |
| 8275          | NIL       |           |           |      |       |      | 0.001     |       |
| 8276          | NIL       |           |           |      |       |      |           |       |

Certified by

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

Telephone (705) 642-3244.

FAX (705) 642-3300



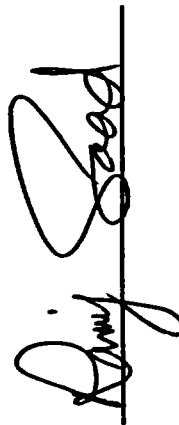
I.C.A.P. WHOLE ROCK ANALYSIS

Lithium Metaborate Fusion

3W-1930-R01

| SAMPLE # | SiO2  | Al2O3 | Fe2O3 | CaO  | MgO  | Na2O | K2O  | TiO2 | MnO  | P2O5 | Ba  | Sr  | Zr  | Y   | Sc  | LOI  | TOTAL  |
|----------|-------|-------|-------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|------|--------|
|          | %     | %     | %     | %    | %    | %    | %    | %    | %    | %    | ppm | ppm | ppm | ppm | ppm | %    | %      |
| 8252     | 78.10 | 12.96 | 1.57  | 0.30 | 0.44 | 6.26 | 0.56 | 0.09 | 0.02 | 0.04 | 116 | 91  | 99  | 12  | 2   | 0.62 | 100.91 |
| 8263     | 92.51 | 2.54  | 1.48  | 0.88 | 0.57 | 0.76 | 0.46 | 0.09 | 0.02 | 0.06 | 91  | 21  | 26  | 4   | 2   | 0.40 | 99.78  |
| 8264     | 69.42 | 15.02 | 4.43  | 2.45 | 1.04 | 3.93 | 1.93 | 0.42 | 0.07 | 0.14 | 852 | 223 | 20  | 26  | 2   | 1.38 | 100.08 |
| 8265     | 80.13 | 11.56 | 1.50  | 0.12 | 0.8  | 6.17 | 0.78 | 0.09 | 0.02 | 0.04 | 14  | 98  | 78  | 12  | 2   | 0.38 | 100.72 |
| 8266     | 61.56 | 12.99 | 9.38  | 3.66 | 1.3  | 1.43 | 1.6  | 0.29 | 0.12 | 0.10 | 190 | 260 | 110 | 14  | 6   | 5.06 | 97.57  |
| 8267     | 92.30 | 1.44  | 1.35  | 1.23 | 0.36 | 0.16 | 0.36 | 0.08 | 0.02 | 0.06 | 65  | 22  | 17  | 2   | 2   | 0.38 | 97.72  |
| 8269     | 69.62 | 13.85 | 3.82  | 1.63 | 0.48 | 3.56 | 2.36 | 0.30 | 0.05 | 0.12 | 592 | 118 | 148 | 24  | 5   | 1.87 | 97.63  |
| 8270     | 92.85 | 2.45  | 1.29  | 0.49 | 0.34 | 0.91 | 0.22 | 0.04 | 0.02 | 0.02 | 36  | 24  | 24  | 2   | 2   | 0.29 | 98.96  |
| 8272     | 79.69 | 9.81  | 2.22  | 0.11 | 0.85 | 2.71 | 2.22 | 0.22 | 0.02 | 0.06 | 270 | 40  | 100 | 4   | 4   | 0.94 | 98.86  |
| 8274     | 70.22 | 13.54 | 4.61  | 0.50 | 1.71 | 3.46 | 1.96 | 0.35 | 0.02 | 0.12 | 31  | 100 | 115 | 28  | 7   | 1.78 | 98.26  |

SIGNED :



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers  
 212 Brookbank Ave., North Vancouver  
 British Columbia, Canada V7J 2G1  
 PHONE: 604-984-0221

To: NORANDA EXPLORATION

P.O. BOX 1205  
 TIMMINS, ONTARIO  
 P4N 7J5

Project: 101  
 Comments: ATTN: JOHN WAKEFORD

Page Number 1  
 Total Pages 1  
 Certificate Date: 3-NOV-92  
 Invoice No. A9223622  
 P.O. Number  
 Account

## CERTIFICATE OF ANALYSIS A9223622

| SAMPLE DESCRIPTION | PREP CODE | AU PPB FA+AA | AG PPM Aqua R | CU PPM | Zn PPM | CU %  |  |  |  |
|--------------------|-----------|--------------|---------------|--------|--------|-------|--|--|--|
| 18346              | 205 274   | < 5          | 10.4          | 2410   | 135    | ----- |  |  |  |
| 18347              | 205 274   | 30           | 39.4          | >10000 | 580    | 7.06  |  |  |  |
| 18348              | 205 274   | < 5          | 3.2           | 3320   | 570    | ----- |  |  |  |
| 18349              | 205 274   | 10           | 4.4           | >10000 | 79     | 1.58  |  |  |  |
| 18350              | 205 274   | < 5          | 6.4           | >10000 | 215    | 3.24  |  |  |  |

CERTIFICATION:

**Chemex Labs Ltd.**  
 Analytical Chemists • Geochemists • Registered Assessors  
 212 Brookbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: NORANDA EXPLORATION

P.O. BOX 1205  
 TIMMINS, ONTARIO  
 P4N 7J5

Project: 101  
 Comments: ATTN: JOHN WAKEFORD

Page Number :  
 Total Pages :  
 Certificate Date: 8-NOV-82  
 Invoice No. I-9223821  
 P.O. Number :  
 Account :

**CERTIFICATE OF ANALYSIS A9223821**

| SAMPLE DESCRIPTION | PREP CODE | ANALYSIS |      |        |       |      |      |      |      |           |        | Zn ppm | Zr ppm |        |        |        |        |       |      |     |
|--------------------|-----------|----------|------|--------|-------|------|------|------|------|-----------|--------|--------|--------|--------|--------|--------|--------|-------|------|-----|
|                    |           | Al2O3    | CaO  | Cl2O3  | Fe2O3 | SiO2 | SO3  | SiO2 | TiO2 | LOI TOTAL | Ba ppm |        |        | Wb ppm | Mo ppm | Ag ppm | Sr ppm | Y ppm |      |     |
| 16756              | 208 274   | 14.39    | 9.20 | 0.02   | 12.84 | 1.43 | 7.02 | 0.46 | 1.14 | 0.06      | 47.55  | 0.92   | 3.02   | 97.99  | 790    | < 10   | 22     | 120   | 20   | 40  |
| 16757              | 208 274   | 13.90    | 2.10 | < 0.01 | 18.70 | 2.93 | 1.89 | 1.01 | 0.20 | 0.20      | 52.19  | 0.43   | 6.99   | 100.53 | 980    | < 10   | 80     | 80    | 10   | 110 |
| 16758              | 208 274   | 15.33    | 2.40 | < 0.01 | 3.82  | 0.49 | 0.99 | 0.75 | 6.94 | 0.15      | 69.18  | 0.97   | 1.01   | 100.83 | 90     | < 10   | 5      | 130   | 10   | 110 |
| 16759              | 208 274   | 16.93    | 6.86 | 0.02   | 10.78 | 1.86 | 4.94 | 0.34 | 3.83 | 0.12      | 47.74  | 1.34   | 4.07   | 98.03  | 520    | < 10   | 54     | 140   | 40   | 60  |
| 16760              | 208 274   | 11.30    | 9.21 | 0.01   | 22.10 | 0.37 | 0.38 | 0.22 | 1.27 | 0.16      | 39.22  | 0.58   | 3.79   | 96.61  | 40     | < 10   | 5      | 80    | 30   | 40  |
| 16761              | 208 274   | 7.80     | 0.94 | < 0.01 | 6.52  | 0.34 | 0.51 | 0.82 | 3.33 | 0.09      | 77.19  | 0.15   | 2.41   | 99.51  | 100    | < 10   | 11     | 30    | < 10 | 60  |

CERTIFICATION:

## Gino Chitaroni

## Sampling Program

## Granite-James Lake Base-Metal Project

| Sample # | Assay Results   | Sample Method                  |
|----------|---|--------------------------------|
| 8152     | Au    Ag    SiO2<br>nil   nil   95.2%                                   | composite chip                 |
| 8153     | Au    Ag<br>nil   nil   | composite chip                 |
| 8154     | Au    Ag    Cu        Ni<br>nil   nil   0.587%   0.127%<br>Co<br>0.012% | chip                           |
| 8155     | Au    Ag    Cu        Ni<br>nil   nil   0.223%   0.103%<br>Co<br>0.011% | chip                           |
| 8156     | Cu            Ni        Co<br>0.091%    0.041%   0.007%                 | chip                           |
| 8157     | Cu            Ni        Co<br>0.112%    0.064%   0.003%                 | composite chip                 |
| 8158     | Au    Cu<br>nil   0.474%  | composite chip                 |
| 8161     | Cu            Ni<br>0.029%    0.007%                                    | chip                           |
| 8162     | Cu            Ni        Co<br>0.895%    0.014%   0.007%<br>Zn<br>0.016% | pipeline blast<br>remnant-muck |
| 8163     | Cu            Ni        Co<br>1.334%    0.010%   0.007%<br>Zn<br>0.016% | channel                        |
| 8113     | Au    Cu<br>tr    0.292%  | chip/muck composite            |

# **MEEGWICH SURVEYS**

Ground Geophysics - Staking

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31M04NE0014 OP93-654 BEST

020

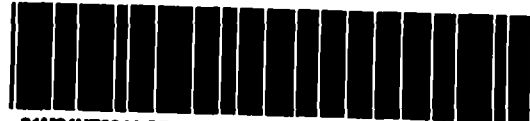
## **GEOPHYSICAL SURVEYS**

# **JAMES LAKE PROPERTY**

## **BEST TWP.**

**DECEMBER 1993**

by: David Laronde



31M04NE0014 OP93-654 BEST

020C

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| <b>3.0</b> | <b>Location &amp; Access</b>                     |
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## **JAMES LAKE PROPERTY GEOPHYSICS**

### **1.0 INTRODUCTION**

In December of 1993, a program of ground geophysics including a detailed magnetometer survey and a VLF survey was carried out on the James Lake Property held by Gino Chitaroni, P.O. Box 271, Cobalt, Ontario POJ 1CO. The surveying was done over an already established grid from Dec. 1 st to Dec. 15 th, 1993. David Laronde of Meegwich Inc., P.O. Box 482, Temagami, Ontario POH 2HO supervised the fieldwork and authored the report. A total of 32.25 km was surveyed using an EDA magnetometer and 25.0 was surveyed with a Geonics EM-16.

### **2.0 PROPERTY**

The survey was carried out over 20 contiguous claims in Best Twp. numbered: 1118502, 1118500, 1118506, 1118507, 1179176, 1179177, 1179178, 1179179, 1165505, 1165507, 1165508, 1179077, 1179078, 1179079, 1179080, 1118498, 1191012, 1118862, 1118863, 1118864.

### **3.0 LOCATION AND ACCESS**

Regionally the claim group is 115 km due north of North Bay, Ontario or 500 km north of Toronto. Locally, the property is situated 15 km north of the town of Temagami and is easily accessed by Highway 11 which cuts the east half of the property in a north-south direction. Numerous bush roads in and around the area make access

by vehicle possible to most parts of the grid. In addition the Trans-Canada Pipeline virtually cuts the property in half and the Ontario Northland Railway is immediately east of the highway.

#### **4.0 SUMMARY OF PAST EXPLORATION & DEVELOPMENT WORK**

The property has been subjected to extensive exploration work since the turn of the century about the same time the railway was built. Mining on the property took place in the early 1900's at the Northland Pyrite Mine on the west shore of James Lake and in the mid 1900's at the Cuniptau Silica site in the southeastern corner of the property. There are numerous showings throughout the claim group. The most notable are the 10 Acana showings, the Mortimer showings, Guppy showing and Niemetz showing.

Early work consisted of hand trenching and mine workings in the old fashioned style. There is about 50 diamond drillholes on the property in and around the known showings.

Mineralization occurs in shears striking north-south and in quartz veins. Metals found on the property are Cu, Ni, Pt, Pd, Co, Zn, Pb, Mo, Ag, Au.

#### **5.0 GEOPHYSICAL SURVEYS (Present program)**

The geophysics were done over a freshly cut grid with stations picketed at 25 meter intervals on lines spaced at 100 meters. The baseline runs in a north-south direction with cross-lines running due east-west. The linecutting



was carried out by Norman McBride Explorations of Notre Dame Du Nord, P.Q. JOZ 3BO

Cultural noise hindered the survey in both the magnetics and the VLF. The Trans-Canada pipeline effectively wiped out about 17% of the VLF data and 8 % of the magnetic data. The data under the influence of the pipelines was not included in the interpretation of the survey results however the values obtained were put on the survey plans for reference purposes. Power lines along the highway and railway also had some effect on readings.

EDA Omni IV magnetometers were used for the detail magnetics survey. These instruments are micro-processor based capable of one-tenth of a gamma resolution while measuring the earth's total magnetic field. A base station was used to compensate for the drift in the diurnal over the course of the day. The base station took readings every 30 seconds. The plan map is at a scale of 1:5000 and contoured at 100 gammas. The data was contoured with a north-south bias to eliminate some "bird's eye" responses. 2500 readings were taken at 12.5 meter interval throughout the grid.

A Geonics VLF EM-16 unit was used for the electromagnetic survey. The transmitter was Annapolis, Maryland (NSS 19.0 kHz) and the coupling is noted on the survey plan by an arrow pointing to the station. Readings were taken at 25 meter intervals.

VLF is a high frequency instrument responding to near surface conductors such as sulphides, graphite, shear zones, clays in bedrock depressions, swamps, interfaces of clays with sloping hills, etc. In this environment it is expected conductors must be within 25 meters of the surface to be detected by VLF. It is quite possible there are conductors on the property that are deeper than the VLF can see.

## 5.1 MAGNETICS

An examination of the regional aeromagnetics GSC 1960 indicates the property is within an elliptical "low". Within the low is a smaller high situated north and west of James Lake. (see Figure 1)

Initially it was expected the magnetic background would show the contact between the Chambers-Strathy granodiorite-quartz monzonite batholith and the Archean volcanics (Beecham 1992). The background of the two rocktypes is similar in intensity of readings but do differ substantially in that the mineralized volcanics have several linear highs striking north-south and the granite has none. A linear high occurs at the Acana 2-4 Cu, Ni showings L 11,12,13 S at 200 E. One could assume from this that many of the linear responses in the volcanics may be well be magnetic sulphide occurrences.

Several narrow linear highs trending north-south were revealed by the detailed magnetics survey. These responses make up a larger pattern that is probably representative of 3 shear zones near contacts. Nearly all the highs are within these three zones.

**Zones 1:** Segmented from L 6 S at 600 W southward and possibly through to L 17 S at 400 W. The southern extension of this zone may have been offset by a fault running east-west through Granite Lake. The north end of this zone may very well be an extension of the Northland Pyrite mine as it is oriented along the strike of the deposit. The more interesting highs occur on L 6,7,8 S at 600 W, L 9 S at 525 W, L 16, 17 S at 350 W and 425 W respectively.

**Zone 2:** A 150 meter wide area immediately to the west of the baseline extending from the north extremity of the grid (L 1 N 100 W) southward to L 13 S at 50 W. Intriguing linear highs occur on L 9 and 11 S at 150 W, L 13 S at 125 W, L 5 S at 50 W, L 2 S at 125 W.

**Zone 3:** This zone runs along the east side of the grid from L 3 N, 600 E to L 13 S, 200 W. The zone varies in width but on average is 200 meters across. Narrow linear highs within strike due south while the zone itself strikes a little west of south. This may be indicative of multiple shears (book). A linear high occurs over the Acana 2 and 4 showings L 11,12,13 S at 200 E. Other highs are situated on L 7 S at 300 E, L 1 S at 350 E and L 2 S, 1 S, 0, 1 N, 2 N at 550 E.

Co-incident mag highs and VLF conductors occur only in Zone 1 on L 6 S and L 16 S. These anomalies constitute high priority targets for future followup work.

## 5.2 VLF

A total of 11 conductors have been identified on VLF-EM profile plan. These are as follows:

**Conductor A:** Bedrock conductor associated with the Pyrite mine. Strong conductivity over 400 meters of strike length before heading off property. High priority target for followup.

**Conductor B:** Flanks magnetic Zone 2. Strong conductivity. High priority target for followup considering the proximity of this anomaly.

**Conductor C:** Co-incident with creek, may be the result of water filled fracture (fault).  
Low priority.

**Conductor D:** Moderate in conductivity, maybe due to the extension of the Pyrite mine further north since it is on the same strike.  
High priority.

**Conductor E:** Strong conductivity. Lines do not extend far enough west to see full signature of this anomaly. It appears as a fault seeing how it runs down the narrow water body. The pipeline masks out the south end of this conductor. It would be interesting to map the course of this anomaly to see if it relates to Conductor H which is near the Acana 9 showing. Second priority target.

**Conductor F:** Appears to be caused by conductive cover on the gentle slope of the bottom of the bay and not bedrock.  
Low priority.

**Conductor G:** May be a double conductor or a wide conductor. Masked out by pipeline on the north end. Quite possible this conductor continues further north toward Conductor C and D.  
Second priority.

**Conductor H:** Occurs only on L 16 S. Full signature not available due to proximity of conductor G which is much more conductive. H is co-incident with Acana 6,7,8 showings.  
High priority.

**Conductor I:** Conductor I occurs along what appears to be a break or fault under the small pond on L 17,18,19 S.

It is a weak conductor that occurs on only 2 lines but it flanks the Mortimer showings.  
Second priority.

**Conductor J:** Segmented, weak occurs on three lines at the south end of the grid. Power line on highway interferes with data collection here.  
Second priority.

**Conductor K:** Immediately southwest of the Acana 5 showing. Weak conductor. Co-incident with a mag high of 50 gammas.  
Second priority.

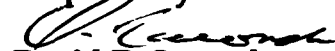
## 6.0 CONCLUSIONS & RECOMMENDATIONS

Since the Acana 2 and 4 showings are magnetic sulphide showings, the detailed magnetometer survey could prove extremely useful in selecting followup targets. One only would have to pick a linear mag high and trench or drill. The concept of three zones identified by magnetics could be implemented to see if one zone warrants more work than the other two. If geological significance could be associated with one zone in particular, it could narrow down the number of anomalies to field check.

A comprehensive program of trenching and sampling is recommended to examine some of the mag highs. Since the property is so accessible the equipment could be moved around with relative ease. Many of the mag highs are on surface and the overburden is thin in many places. This should be the first step in future work as a cost-effective measure in identifying ore zones prior to drilling.

Conductors A,B,D,H merit further attention. Since it is difficult to determine orientation of the conductors due to the fact they are near the edge of the grid or too close to the pipeline or another conductor, it is recommended that an I.P. survey be done to determine potential drill targets at depth where there isn't cultural noise (pipeline). At the same time the conductor picture could be completed where the pipeline has affected the data and east of the highway where the VLF didn't cover (7.2 km).

Respectfully submitted,



David D. Laronde  
Geology Engineering Technologist  
Meegwich Inc.  
Dec 22, 1993.

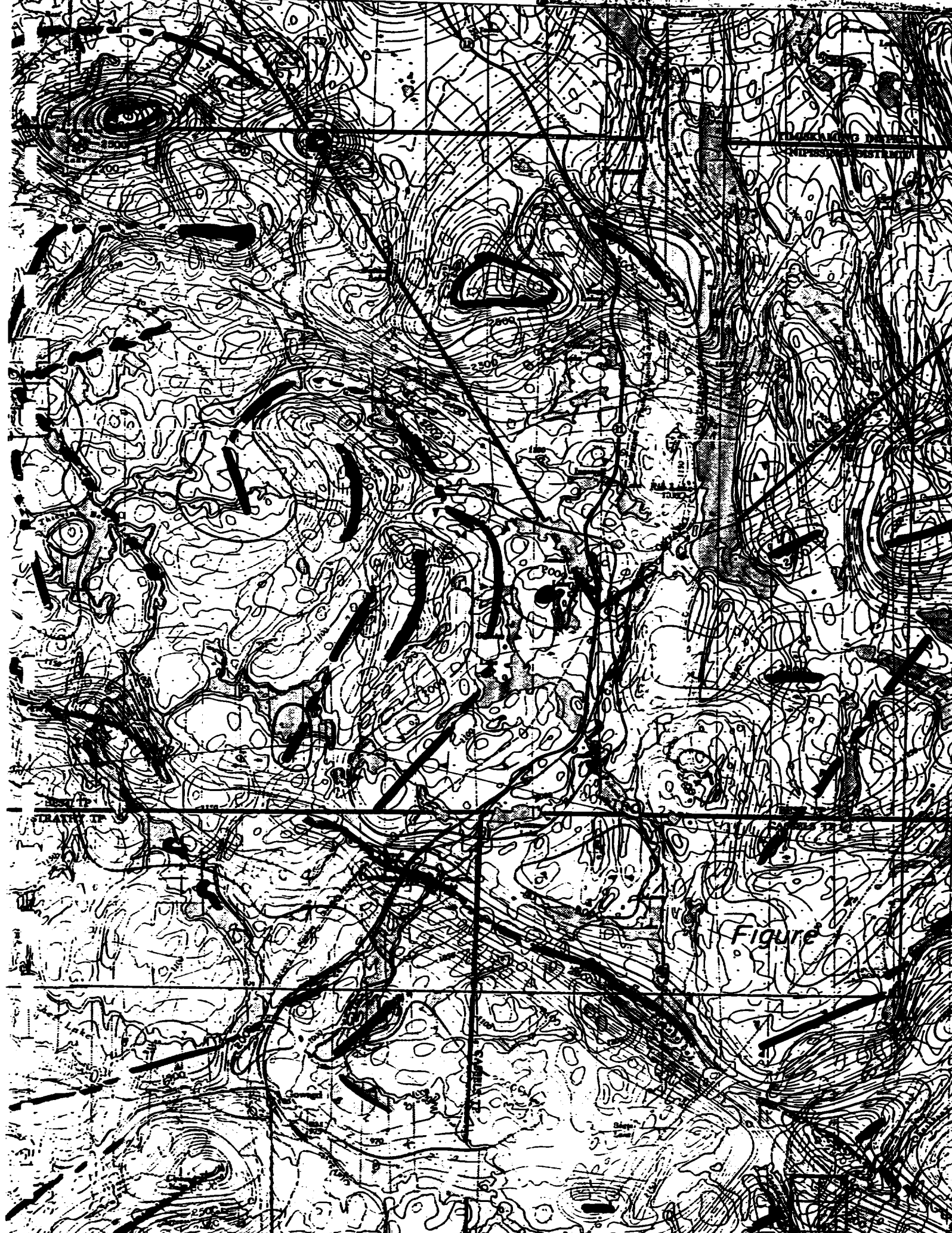


Figure 10

**Bibliography**

**Compilation of Geology and Mineral Occurrences of the James Lake  
Area A.W. Beecham Sept 1992.**




**CERTIFICATE**

I, David D. Laronde, of the town of Temagami, in the Province of Ontario, hereby certify:

1. That I am a consulting technologist and have been engaged in my profession for approximately thirteen years.
2. That I am a graduate of Cambrian College in Sudbury with a diploma in Geology Engineering Technology 1979.
3. That my knowledge of the property described was acquired by field visits and a study of publications made available to me by the claim holder.

Dated at Temagami, Ontario this 22nd day of Dec. 1993.



David D. Laronde



INVOICE

" Granite - James Lake Property "

SOLD TO Target Geological Services  
Postage Bay Rd, Southport

SHIP TO May 15 - Dec 30/93

|                |           |
|----------------|-----------|
| OUR NUMBER     | 66407     |
| DATE           | Dec 30/93 |
| CUSTOMER ORDER |           |
| SALESMAN       |           |
| TERMS          |           |
| TAX REG. NO    |           |

| QUANTITY | DESCRIPTION                                     | PRICE | AMOUNT    |
|----------|---|-------|-----------|
| 44 days  | Give # Chitapan<br>at 28.10/hr (Friday) 225/day |       | \$9900.00 |
|          | services:                                       |       |           |
|          | 5 days - Site Preparation & Prospecting         |       |           |
|          | 30 days - Labor, Sampling & Supervision         |       |           |
|          | 5 days - Core-Cutting & Analysis                |       |           |
|          | assistances/supervision                         |       |           |
|          | 4 days Report preparation                       |       |           |
|          | <i>[Signature]</i>                              |       |           |
|          | Total   |       | \$9900.00 |

3 BUSINESS D 32

Swastika Laboratories  
 P.O. Box 10  
 Swastika, Ontario  
 POK 1T0

**INVOICE**

NO: 28462

DATE: 07-15-93

PAGE: 1 of 1

SOLD TO: Target Geological Services  
 P O Box 271  
 Cobalt, Ontario  
 POJ1C0

SHIP TO: Same

GST Number: R132862640

| ITEM NO | QUANTITY | UNIT   | DESCRIPTION       | G | P | UNIT PRICE   | AMOUNT        |
|---------|----------|--------|-------------------|---|---|--------------|---------------|
|         | 15       | Code 4 | Au Assays         | 3 |   | 8.000        | 120.00        |
|         | 4        | Code 1 | Ag Assays         | 3 |   | 6.500        | 26.00         |
|         | 3        | Code 1 | Cu Assays         | 3 |   | 5.000        | 15.00         |
|         | 2        | Code 1 | Pb Assays         | 3 |   | 3.000        | 6.00          |
|         | 2        | Code 1 | Zn Assays         | 3 |   | 3.000        | 6.00          |
|         | 1        | Code 1 | Pd Assays         | 3 |   | 5.000        | 5.00          |
|         | 10       | Code 1 | WRA Package       | 3 |   | 19.000       | 190.00        |
|         | 15       | Code 4 | Sample Prep       | 3 |   | 3.000        | 45.00         |
|         |          |        | Cert #3W-1930-RG1 |   |   |              |               |
|         |          |        | 3-GST @ 7%        |   |   |              | 28.91         |
|         |          |        |                   |   |   | <b>TOTAL</b> | <b>441.91</b> |

COMMENTS

Net 30 Days

INVOICE

|                  |          |
|------------------|----------|
| OUR NUMBER       | 81702    |
| DATE             | 27-05-93 |
| CUSTOMER'S ORDER |          |
| SALESMAN         |          |
| TERMS            |          |
| F.O.B.           |          |

TAX REG. NO. \_\_\_\_\_  
 SOLD TO \_\_\_\_\_  
 SHIP TO Giwo Chitaroni  
Parage Bay Road  
 ADDRESS Cabalt via \_\_\_\_\_

| QUANTITY | DESCRIPTION     | UNIT   | AMOUNT   |
|----------|-----------------|--------|----------|
|          | JAMES LAKE GRID |        |          |
|          | BEST TWP        |        |          |
|          | 27.1 km @       | 220.00 | 5962.00  |
|          | ADVANCE         |        | 2300.00  |
|          | BALANCE DUE     |        | 11662.00 |
|          |                 |        |          |
|          |                 |        |          |
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|          |                 |        |          |
|          |                 |        |          |
|          |                 |        |          |
|          |                 |        |          |
|          |                 |        |          |
|          |                 |        |          |

THANK YOU  
J. S. Ross

| Item Description                        | Quantity | Unit Price | Total Price       |
|---|----------|------------|-------------------|
| Geophysical Survey                      | 1        | \$500.00   | \$500.00          |
| ALTA Survey & Report                    | 1        | \$2,775.00 | \$2,775.00        |
| Detailed Management Survey - 12.5 Acres | 1        | \$3,225.00 | \$3,225.00        |
| <b>Subtotal</b>                         |          |            | <b>\$6,500.00</b> |
| <b>Total</b>                            |          |            | <b>\$6,500.00</b> |

Project: [Illegible]  
 Date: [Illegible]

Encompass: [Illegible]  
 P.O. Box 482, [Illegible]  
 Temagami, Ontario [Illegible]

MEGWICH CONSULTANTS INC.  
 Mining exploration consultants  
 P.O. BOX 482, [Illegible]  
 TEMAGAMI, ONTARIO [Illegible]  
 Date: Jan. 6, 1993.

Invoice: No 374



"Granite-Jones Lake Property"

SOLD TO Gino Chitacchi  
Portage Bay Rd Cabott Ontario  
 SHIP TO May 21 - June 30, 1993  
 ADDRESS \_\_\_\_\_ VIA \_\_\_\_\_

|                  |           |
|------------------|-----------|
| OUR NUMBER       | 66406     |
| DATE             | Jan 10/94 |
| F.O.B.           |           |
| CUSTOMER'S ORDER |           |
| SALESMAN         |           |
| TERMS            |           |
| TAX REG. NO.     |           |

INVOICE

| QUANTITY | DESCRIPTION                               | UNIT | AMOUNT     |
|----------|---|------|------------|
|          | Barry Stewart -                           |      |            |
|          | 30days at 15.00/hr 8hr/day = \$120.00/day |      | \$3,600.00 |
|          | Mike Kern -                               |      |            |
|          | 30days at 15.00/hr 8hr/day = \$120.00/day |      | 3,600.00   |
|          | Services:                                 |      |            |
|          | Labour, Brushing Manual                   |      |            |
|          | stripping                                 |      |            |
|          | Michael J Nelson                          |      |            |
|          | Michael J Nelson                          |      |            |
|          | Total                                     |      | \$7,200.00 |

251 709 933 5 90001 1002750

MR GINO P CHITARONI 12/99

551600927117 B  
COBALT TRUCK STOP  
HIGHWAY 11 NORTH  
COBALT  
GST R101792190

061493 A7866962

|  |       |       |           |
|--|-------|-------|-----------|
| Motor oil<br>Huile moteur  | 45.95 | 93.92 | 27.50     |
| Fuel amount includes PST where applicable.<br>Carburant TVP inclus, s'il y a lieu. |       |       | PST - TVP |
|  |       |       | 27.50     |

251 709 933 5 90001 7003836

MR GINO P CHITARONI 12/99

551600927117 B  
COBALT TRUCK STOP  
HIGHWAY 11 NORTH  
COBALT  
GST R101792190

061493 A7866762

|  |       |       |           |
|--|-------|-------|-----------|
| Motor oil<br>Huile moteur  | 55.05 | 97.39 | 38.00     |
| Fuel amount includes PST where applicable.<br>Carburant TVP inclus, s'il y a lieu. |       |       | PST - TVP |
|  |       |       | 38.00     |

251 709 933 5 90001 1003688

MR GINO P CHITARONI 12/99

551600927117 B  
COBALT TRUCK STOP  
HIGHWAY 11 NORTH  
COBALT  
GST R101792190

061893 A7866893

|  |      |       |           |
|--|------|-------|-----------|
| Motor oil<br>Huile moteur  | 57.6 | 59.93 | 34.55     |
| Fuel amount includes PST where applicable.<br>Carburant TVP inclus, s'il y a lieu. |      |       | PST - TVP |
|  |      |       | 36.58     |

251 709 933 5 90001 1003468

MR GINO P CHITARONI 12/99

551600927117 B  
COBALT TRUCK STOP  
HIGHWAY 11 NORTH  
COBALT  
GST R101792190

062193 A3866964

|  |       |       |           |
|--|-------|-------|-----------|
| Motor oil<br>Huile moteur  | 40.63 | 94.18 | 26.00     |
| Fuel amount includes PST where applicable.<br>Carburant TVP inclus, s'il y a lieu. |       |       | PST - TVP |
|  |       |       | 26.00     |

251 709 933 5 90001

MR GINO P CHITARONI  
SUPER C ESSO P5N  
194 ARMSTRONG ST  
NEW LISKEARD  
PTEN UNL  
M-50 NT

INV: 2470653  
Date: 93/06/29  
Time: 12:19:37  
GST INCL: 30.00  
PRICE: 0.65  
QTY: 46.51/L  
1

(GST CONTENT 1.9%) PLUS PST 0.00  
TOTAL: 32.52

ESSE  
Imperial Oil  
Empériale

251 709 933 5 90001 1003400

Account may be assigned to: Ce compte peut être cédé à:

Imperial Oil Products Division / Pétrolière Impériale Division Produits pétroliers

551600927117 B  
COBALT TRUCK STOP  
HIGHWAY 11 NORTH  
COBALT  
CST 210192190

091993 4316327

|   |      |      |     |           |
|---|------|------|-----|-----------|
| Motor oil / Huile moteur  | 37.3 | 66.9 | 439 | 25.00     |
| Fuel amount includes PST where applicable. Collez-vous TVP inclus, s'il y a lieu. |      |      |     | PST - TVP |
|   |      |      |     | 25.00     |

Signature: *Mr. Chitaroni*

251 709 933 5 90001 1003400

Account may be assigned to: Ce compte peut être cédé à:

Imperial Oil Products Division / Pétrolière Impériale Division Produits pétroliers

551600927117 B  
COBALT TRUCK STOP  
HIGHWAY 11 NORTH  
COBALT  
CST 210192190

091993 4316327

|   |     |      |      |           |
|---|-----|------|------|-----------|
| Motor oil / Huile moteur  | 422 | 63.9 | 7.18 | 27.00     |
| Fuel amount includes PST where applicable. Collez-vous TVP inclus, s'il y a lieu. |     |      |      | PST - TVP |
|   |     |      |      | 27.00     |

Signature: *Mr. Chitaroni*

251 709 933 5 90001 1003400

Account may be assigned to: Ce compte peut être cédé à:

Imperial Oil Products Division / Pétrolière Impériale Division Produits pétroliers

551600927117 B  
COBALT TRUCK STOP  
HIGHWAY 11 NORTH  
COBALT  
CST 210192190

091993 4316455

|   |      |      |     |           |
|---|------|------|-----|-----------|
| Motor oil / Huile moteur  | 76.8 | 59.8 | 392 | 34.00     |
| Fuel amount includes PST where applicable. Collez-vous TVP inclus, s'il y a lieu. |      |      |     | PST - TVP |
|   |      |      |     | 34.00     |

Signature: *Mr. Chitaroni*

251 709 933 5 90001

Account may be assigned to: Ce compte peut être cédé à:

Imperial Oil Products Division / Pétrolière Impériale Division Produits pétroliers

551600927117 B  
COBALT TRUCK STOP  
HIGHWAY 11 NORTH  
COBALT  
CST 210192190

091993 4316455

|   |         |   |       |           |
|---|---------|---|-------|-----------|
| Motor oil / Huile moteur  | 34.18/L | 1 | 34.18 | 20.00     |
| Fuel amount includes PST where applicable. Collez-vous TVP inclus, s'il y a lieu. |         |   |       | PST - TVP |
|   |         |   |       | 20.00     |

Signature: *Mr. Chitaroni*

Imperial Oil / Esso / Impériale

Account may be assigned to: Ce compte peut être cédé à:

Imperial Oil Products Division / Pétrolière Impériale Division Produits pétroliers

Vehicle License / RP de Plaque: \_\_\_\_\_

Super's Signature / Signature de Client: *Mr. Chitaroni*

Customer Copy / Copie du Client

Please retain this copy as a record of your transaction / Conserver cette copie comme preuve de transaction

251 709 933 5 90001  
MR GINO P CHITARONI  
SUPER C ESSO P5N  
194 ARMSTRONG ST  
NEW LISKEARD  
ITEM QTY PRICE GST TOTAL  
PREM UNL 31.00/L 0.645 INCL 20.00

INV : 2474350  
VRN R122825268  
Date 93/09/20  
Time 15:30:37

(GST CONTENT 1.31) PLUS PST 0.00  
TOTAL : \$ 20.00

Foot amount includes PST where applicable. Collez-vous TVP inclus, s'il y a lieu.

Imperial Oil / Esso / Impériale

Account may be assigned to: Ce compte peut être cédé à:

Imperial Oil Products Division / Pétrolière Impériale Division Produits pétroliers

Vehicle License / RP de Plaque: \_\_\_\_\_

Super's Signature / Signature de Client: *Mr. Chitaroni*

Customer Copy / Copie du Client

Please retain this copy as a record of your transaction / Conserver cette copie comme preuve de transaction

251 709 933 5 90001  
MR GINO P CHITARONI  
SUPER C ESSO P5N  
194 ARMSTRONG ST  
NEW LISKEARD  
ITEM QTY PRICE GST TOTAL  
UNLEADED 34.18/L 1 34.18 20.00  
MISC NT 0.585 INCL 0.65

INV : 2474350  
VRN R122825268  
Date 93/09/08  
Time 11:31:54

(GST CONTENT 1.31) PLUS PST 0.00  
TOTAL : \$ 20.00

Foot amount includes PST where applicable. Collez-vous TVP inclus, s'il y a lieu.



251 709 933 5 0001 1002500

MR GINO P CHITARONI

Amount of purchase  
Montant de l'achat

Imperial Oil  
Esso Petroleum Canada  
A Division of Imperial Oil  
Pétroles Esso Canada,  
Division de la Pétrolia Impériale

551600927117 B  
COBALT TRUCK STOP  
HIGHWAY 11 NORTH  
COBALT  
GST R101792190

050193 A0385876

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This financing is subject to the terms and conditions applicable to your credit.  
Ce financement est soumis aux conditions stipulées dans votre contrat de crédit.

|  |       |      |           |
|--|-------|------|-----------|
| Motor oil / Huile moteur   | 46.75 | 3.92 | 25.00     |
| Fuel amount includes PST where applicable.<br>Montant TVP inclus, s'il y a lieu. |       |      | PST - TVP |
| 5  |       |      | 25.00     |

461 CRX

*[Signature]*

251 709 933 5 0001 1002800

MR GINO P CHITARONI

Amount of purchase  
Montant de l'achat

Imperial Oil  
Esso Petroleum Canada  
A Division of Imperial Oil  
Pétroles Esso Canada,  
Division de la Pétrolia Impériale

551600927117 B  
COBALT TRUCK STOP  
HIGHWAY 11 NORTH  
COBALT  
GST R101792190

010593 X5406787

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Ce financement est soumis aux conditions stipulées dans votre contrat de crédit.

|  |      |     |           |       |
|--|------|-----|-----------|-------|
| Motor oil / Huile moteur   | 41.8 | 6.5 | 4.58      | 27.00 |
| Fuel amount includes PST where applicable.<br>Montant TVP inclus, s'il y a lieu. |      |     | PST - TVP |       |
| 5  |      |     | 27.00     |       |

*[Signature]*

251 709 933 5 0001 1002700

MR GINO P CHITARONI

Amount of purchase  
Montant de l'achat

Imperial Oil  
Products Division  
Pétrolia Impériale  
Division Produits pétroliers / Impériale

551600927117 B  
COBALT TRUCK STOP  
HIGHWAY 11 NORTH  
COBALT  
GST R101792190

010593 031992250

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Ce financement est soumis aux conditions stipulées dans votre contrat de crédit.

|  |      |      |           |       |
|--|------|------|-----------|-------|
| Motor oil / Huile moteur   | 43.2 | 5.99 | 3.92      | 26.00 |
| Fuel amount includes PST where applicable.<br>Montant TVP inclus, s'il y a lieu. |      |      | PST - TVP |       |
| 5  |      |      | 26.00     |       |

*[Signature]*

3

251 709 933 5 0001 1002500

MR GINO P CHITARONI

Amount of purchase  
Montant de l'achat

Imperial Oil  
Products Division  
Pétrolia Impériale  
Division Produits pétroliers / Impériale

551600927117 B  
COBALT TRUCK STOP  
HIGHWAY 11 NORTH  
COBALT  
GST R101792190

050193 0318053

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This financing is subject to the terms and conditions applicable to your credit.  
Ce financement est soumis aux conditions stipulées dans votre contrat de crédit.

|  |       |      |           |
|--|-------|------|-----------|
| Motor oil / Huile moteur   | 46.75 | 3.92 | 25.00     |
| Fuel amount includes PST where applicable.<br>Montant TVP inclus, s'il y a lieu. |       |      | PST - TVP |
| 5  |       |      | 25.00     |

461 CRX

*[Signature]*

251 709 933 5 0001 1002800

MR GINO P CHITARONI

Amount of purchase  
Montant de l'achat

Imperial Oil  
Products Division  
Pétrolia Impériale  
Division Produits pétroliers / Impériale

551600927117 B  
COBALT TRUCK STOP  
HIGHWAY 11 NORTH  
COBALT  
GST R101792190

010593 5714054

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Ce financement est soumis aux conditions stipulées dans votre contrat de crédit.

|  |      |     |           |       |
|--|------|-----|-----------|-------|
| Motor oil / Huile moteur   | 41.8 | 6.5 | 4.58      | 27.00 |
| Fuel amount includes PST where applicable.<br>Montant TVP inclus, s'il y a lieu. |      |     | PST - TVP |       |
| 5  |      |     | 27.00     |       |

*[Signature]*

990 034 642 1 0001 002400

GINO P. CHITARONI 08 95

100408 090693 300828

| Line  | QTY  | UNIT | PRICE | TOTAL |
|-------|------|------|-------|-------|
| 1     | 40.8 | ST   | 2.40  | 97.92 |
| 2     |      |      |       |       |
| 3     |      |      |       |       |
| 4     |      |      |       |       |
| Total |      |      |       | 97.92 |

Customer - Client

990 034 642 1 0001 001800

GINO P. CHITARONI 08 95

100308 150693 381804

| Line  | QTY  | UNIT | PRICE | TOTAL  |
|-------|------|------|-------|--------|
| 1     | 30.6 | ST   | 12.50 | 381.90 |
| 2     |      |      |       |        |
| 3     |      |      |       |        |
| 4     |      |      |       |        |
| Total |      |      |       | 381.90 |

Customer - Client

990 034 642 1 0001 002400

GINO P. CHITARONI 08 95

100408 090693 300828

| Line  | QTY  | UNIT | PRICE | TOTAL |
|-------|------|------|-------|-------|
| 1     | 40.8 | ST   | 2.40  | 97.92 |
| 2     |      |      |       |       |
| 3     |      |      |       |       |
| 4     |      |      |       |       |
| Total |      |      |       | 97.92 |

Customer - Client

990 034 642 1 0001 000000

GINO P. CHITARONI 08 95

100308 150693 381804

| Line  | QTY  | UNIT | PRICE | TOTAL  |
|-------|------|------|-------|--------|
| 1     | 30.6 | ST   | 12.50 | 381.90 |
| 2     |      |      |       |        |
| 3     |      |      |       |        |
| 4     |      |      |       |        |
| Total |      |      |       | 381.90 |

Customer - Client

990 034 642 1 0001 002300

GINO P. CHITARONI 08 95

100308 150693 381804

| Line  | QTY  | UNIT | PRICE | TOTAL  |
|-------|------|------|-------|--------|
| 1     | 30.6 | ST   | 12.50 | 381.90 |
| 2     |      |      |       |        |
| 3     |      |      |       |        |
| 4     |      |      |       |        |
| Total |      |      |       | 381.90 |

Customer - Client

**SHELL CANADA PRODUCTS LIMITED**  
**SHELL HELPS!**

TRI-TOWN CAR WASH LTD  
CEDAR & ARMYSTRONG  
NEW LISKEARD ON  
R. LAFORET (705) 427-4447

GST # 186231673 PST RATE (7.0%)  
RATE (8.0%)

CHITARONI/GINO P. MR  
MASTERCARD 5191238081806775

| FUEL                            | QTY   | PRICE     | AMOUNT  |
|---------------------------------|-------|-----------|---------|
| BRONZE                          | 22.02 | 89.589    | 1972.00 |
| FUEL AMOUNT INCLUDES GST \$2.00 |       |           |         |
| TOTAL                           |       | \$1974.00 |         |

INV NO. 0534581234 93/06/02 15:47  
SER NO. 001-001-033 AUTHORIZED 340547 B

*Signature*

⑤

4502 221 520 811 0002600

02/95 CV

GINO P. CHITARONI

5631 058093 4528825

GST # 115482606  
NEW LISKEARD ON  
SALE INCLUDES

Shell Oil Marketing Company  
A Member of Shell Canada Ltd  
100 King Street West, Toronto, Ontario M5X 1C3

| PRODUCT OR SERVICE           | AMOUNT | TAXES | PRICE / TAXES | AMOUNT    |
|------------------------------|--------|-------|---------------|-----------|
| <i>[Handwritten entries]</i> |        |       |               |           |
| TOTAL                        |        |       |               | \$1974.00 |

CHITARONI/GINO P. MR  
MASTERCARD

**SHELL CANADA PRODUCTS LIMITED**  
**SHELL HELPS!**

172094 ONTARIO LTD.  
7 SILVER STREET  
COBOLT ON  
R. COLE (705) 679-5711

GST # 132909518 PST RATE (7.0%)  
RATE (8.0%)

CASH RECEIPT

| FUEL                            | QTY   | PRICE     | AMOUNT  |
|---------------------------------|-------|-----------|---------|
| BRONZE                          | 19.19 | 88.585    | 1715.00 |
| FUEL AMOUNT INCLUDES GST \$1.21 |       |           |         |
| TOTAL                           |       | \$1716.21 |         |

93/06/04 12:51

**SHELL CANADA PRODUCTS LIMITED**  
**SHELL HELPS!**

SHELL  
1812 ALGONQUIN AVE  
NORTH BAY ON  
YVON MOULE (705) 474-9633

GST # 104829262 PST RATE (7.0%)  
RATE (8.0%)

CHITARONI/GINO P  
VISA 4582221528811

| FUEL                            | QTY   | PRICE     | AMOUNT  |
|---------------------------------|-------|-----------|---------|
| BRONZE                          | 16.96 | 88.575    | 1512.00 |
| FUEL AMOUNT INCLUDES GST \$1.77 |       |           |         |
| TOTAL                           |       | \$1513.77 |         |

INV NO. 0544501032 93/06/22 21:15  
SER NO. 002-002-009 AUTHORIZED 046253 X

*Signature*

*Signature*

2R X 401

6

4551 192 580 841 1003400

06/93 06/96 CV

G P CHITARONI

551600927117 B  
 COBALT TRUCK STOP  
 HIGHWAY 11 NORTH  
 COBALT  
 GST R101292490

Amount of purchase / Montant de l'achat  
 Amount may be assigned to / Co compte peut être affecté vers  
 Imperial Oil

Esso Petroleum Canada  
 A Division of Imperial Oil  
 Pétroles Esso Canada  
 Division de la Pétrolina Impériale

Imperial Oil logo

This financing is subject to the terms and conditions applicable to your card.  
 This financing is subject to the terms and conditions applicable to your card.

|  |  |      |      |     |                    |
|--|--|------|------|-----|--------------------|
|  |  | 56.7 | 59.9 | 392 | 34.00              |
| Motor oil  |  |      |      |     |                    |
| Hulls motor  |  |      |      |     |                    |
| Fuel amount includes PST where applicable.<br>Customer TWP hidden, 0% p a tax. |  |      |      |     | PST - TWP<br>39.00 |

HUSKY OIL MARKETING COMPANY

NEW LISKEARD HUSKY  
 HIGHWAY #11 NORTH  
 NEW LISKEARD ON  
 PHONE 7856476380 GST# 134583822

G P CHITARONI DATE: 93/10/10  
 VISA 4551192580841 TIME: 01:32  
 EXPIRY: 06/96 ID: 35563701  
 AUTH: 798534 TKT NO. 2954

| PRODUCT  | QTY   | PRICE | AMOUNT   | GST  |
|----------|-------|-------|----------|------|
| SUP PREM | 37.21 | 0.645 | 24.00    | 1.57 |
| SUBTOTAL |       |       | 24.00    | 1.57 |
|          |       | PST   | 0.00     |      |
| TOTAL    |       |       | \$ 24.00 |      |

AMOUNT & TOTALS INCLUDE GST

*G. P. Chitaroni*

SIGNATURE

VEH. LICENCE #

HERE IN CANADA IT'S HUSKY

4551 192 580 841 1002800

06/93 06/96 CV

G P CHITARONI

551600927117 B  
 COBALT TRUCK STOP  
 HIGHWAY 11 NORTH  
 COBALT  
 GST R101292490

Amount of purchase / Montant de l'achat  
 Amount may be assigned to / Co compte peut être affecté vers  
 Imperial Oil

Esso Petroleum Canada  
 A Division of Imperial Oil  
 Pétroles Esso Canada  
 Division de la Pétrolina Impériale

Imperial Oil logo

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 This financing is subject to the terms and conditions applicable to your card.

|  |  |      |      |     |                    |
|--|--|------|------|-----|--------------------|
|  |  | 56.7 | 59.9 | 392 | 34.00              |
| Motor oil  |  |      |      |     |                    |
| Hulls motor  |  |      |      |     |                    |
| Fuel amount includes PST where applicable.<br>Customer TWP hidden, 0% p a tax. |  |      |      |     | PST - TWP<br>28.00 |

4551 192 580 841 1003400

06/93 06/96 CV

G P CHITARONI

551600927117 B  
 COBALT TRUCK STOP  
 HIGHWAY 11 NORTH  
 COBALT  
 GST R101292490

Amount of purchase / Montant de l'achat  
 Amount may be assigned to / Co compte peut être affecté vers  
 Imperial Oil

Esso Petroleum Canada  
 A Division of Imperial Oil  
 Pétroles Esso Canada  
 Division de la Pétrolina Impériale

Imperial Oil logo

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 This financing is subject to the terms and conditions applicable to your card.

|  |  |      |      |     |                    |
|--|--|------|------|-----|--------------------|
|  |  | 56.7 | 59.9 | 392 | 34.00              |
| Motor oil  |  |      |      |     |                    |
| Hulls motor  |  |      |      |     |                    |
| Fuel amount includes PST where applicable.<br>Customer TWP hidden, 0% p a tax. |  |      |      |     | PST - TWP<br>37.00 |

4551 192 580 841 1001900  
 06/93 06/93 CV  
 G P CHITARONI  
 551600927117 B  
 COBALT TRUCK STG  
 HIGHWAY 11 NORTH  
 COBALT  
 CST R101292190

Amount paid for goods and services  
 Amount of purchase  
 Montant de l'achat

Account may be assigned to  
 Ce compte peut être cédé sans

Imperial Oil  
 Esso Petroleum Canada  
 A Division of Imperial Oil  
 Pétroles Esso Canada  
 Division de la Fédération Impériale

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|  |       |      |      |       |
|--|-------|------|------|-------|
| Motor oil<br>Huile moteur  | 36.98 | 6.94 | 4.38 | 18.00 |
| Fuel amount includes PST where applicable.<br>Montant TVA inclus, s'il y a lieu. |       |      |      | 18.00 |

(7)

SHELL CANADA PRODUCTS LIMITED  
 SHELL HELPS!  
 TEMAGAMI SHELL  
 MAY 11  
 TEMAGAMI ON  
 DEBBIE PARMAR  
 785-569-3318  
 GST # 129457428  
 PST  
 VISA  
 455119258884

FUEL QTY PRICE AMOUNT  
 BRONZE 28.86 @ 88.589 17.00  
 FUEL AMOUNT INCLUDES GST \$1.11

TOTAL \$17.00

INV NO. 8868481654 93/08/28 16:3  
 SED NO. 801-801-809 AUTHORIZED 559769

4551 192 588 741 1002400  
 06/93 06/93 CV  
 G P CHITARONI  
 551600927117 B  
 COBALT TRUCK STG  
 HIGHWAY 11 NORTH  
 COBALT  
 CST R101292190

Amount paid for goods and services  
 Amount of purchase  
 Montant de l'achat

Account may be assigned to  
 Ce compte peut être cédé sans

Imperial Oil  
 Esso Petroleum Canada  
 A Division of Imperial Oil  
 Pétroles Esso Canada  
 Division de la Fédération Impériale

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|  |       |  |  |       |
|--|-------|--|--|-------|
| Motor oil<br>Huile moteur  | 25.00 |  |  | 1.00  |
| Fuel amount includes PST where applicable.<br>Montant TVA inclus, s'il y a lieu. |       |  |  | 25.00 |

SHELL CANADA PRODUCTS LIMITED  
 SHELL HELPS!  
 TEMAGAMI SHELL  
 MAY 11  
 TEMAGAMI ON  
 DEBBIE PARMAR  
 785-569-3318  
 GST # 129457428  
 PST  
 VISA  
 455119258884

FUEL QTY PRICE AMOUNT  
 BRONZE 33.96 @ 88.589 20.0  
 FUEL AMOUNT INCLUDES GST \$1.31

TOTAL \$20.0

INV NO. 8868481565 93/10/25 13:  
 SED NO. 801-801-804 AUTHORIZED 131141

4551 192 580 841 7002900  
 06/93 06/93 CV  
 G P CHITARONI  
 551600927117 B  
 COBALT TRUCK STG  
 HIGHWAY 11 NORTH  
 COBALT  
 CST R101292190

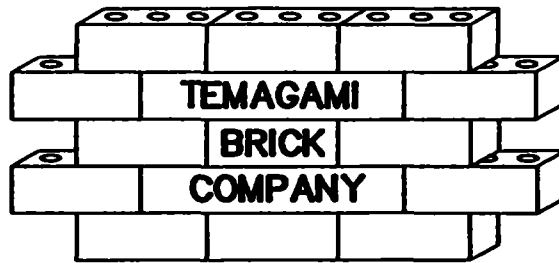
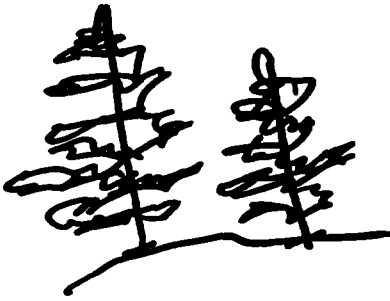
Amount paid for goods and services  
 Amount of purchase  
 Montant de l'achat

Account may be assigned to  
 Ce compte peut être cédé sans

Imperial Oil  
 Esso Petroleum Canada  
 A Division of Imperial Oil  
 Pétroles Esso Canada  
 Division de la Fédération Impériale

Conservateur de cette copie  
 This document is subject to the terms and conditions applicable to your card.  
 Ce document peut être soumis aux conditions applicables dans votre contrat de carte de crédit.

|  |       |      |      |       |
|--|-------|------|------|-------|
| Motor oil<br>Huile moteur  | 43.86 | 6.39 | 4.11 | 28.00 |
| Fuel amount includes PST where applicable.<br>Montant TVA inclus, s'il y a lieu. |       |      |      | 29.00 |



P.O. BOX 159,  
TEMAGAMI, ONTARIO, P0H 2H0  
PHONE  
FAX (705) 569-2690

December 15, 1993

GINO CHITARONI  
P.O. Box 271  
Cobalt, Ont.  
P0J 1C0

Dear Gino :

Thank-you for discussing your Cuniptau Quartz property with us. We are interested in this material as a decorative aggregate for our calcium silicate line of bricks as well as its value for silicon dioxide.

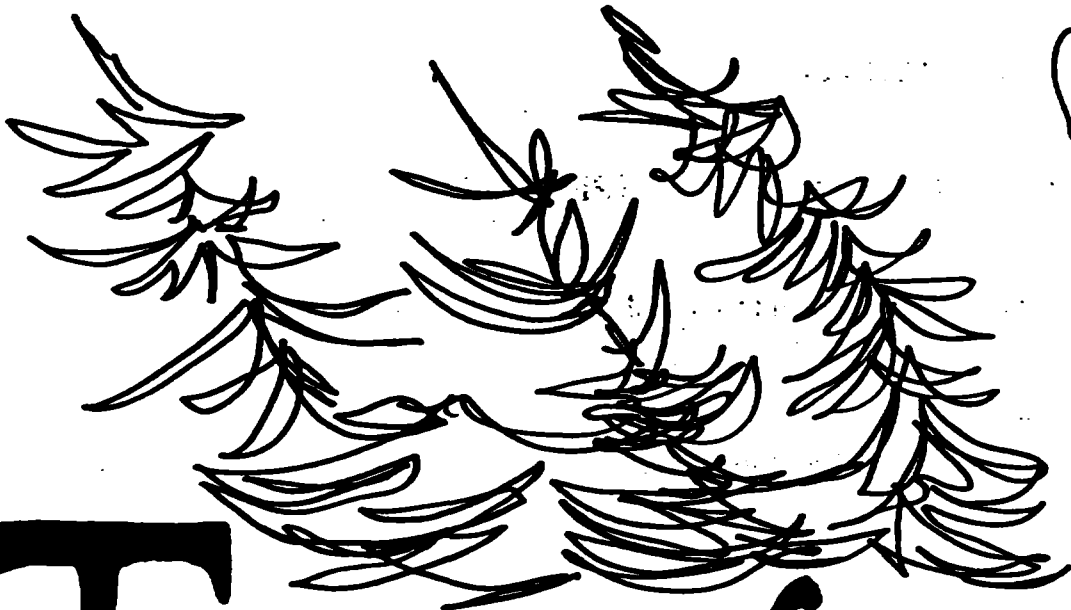
It's too soon to determine our quantity requirements but we would like to have an idea of truckload prices of the run-of-pit material. In the meantime, we would appreciate it if you would allow us to chip off some laboratory pieces for further experiments.

Regards  
Temagami Brick Co.



Peter J. Salari, P.Eng.  
General Manager

ARTISTS  
CONCEPTUAL  
DRAFT  
10/01/93



# Temagami Brick

... It is well known that we are using our resources at a faster rate than we are finding new ones. ....A method of making a low grade ore more acceptable would be to discover a valuable by-product in the enormous quantity of waste material....

L.K. Sillcox

"Engineering & Enterprise" The Eighth Wallberg Lecture

University of Toronto



November 1955

FOR CONSISTENT QUALITY

ARTISTS  
CONCEPTUAL  
DRAFT  
10/01/93

... DEMANDED BY YOUR APPLICATION

Accepted by the following Standards and Acceptance Associations

- ? Central Mortgage & Housing Corporation Canada
- ? Housing & Urban Development (HUD)
- ? NES
-  BOCA
-  Underwriters Laboratories Inc and ULCanada

**PERFORMANCE RESULTS**



**Compressive Strength**

**7500 psi**

**exceeds ASTM Spec C140-75**



**Water Absorption**

**XX % at 5 hours**

**11.1**

**exceeds UBC Standard**



**Flexural Strength**

**XXX psi**

**meets ASTM Spec C-348**

**AN ISO 9000 COMPANY**

**Consistent quality in product and process**

*Member of the*

*Canadian Concrete Masonry Association*

*and the National Concrete Masonry Association*



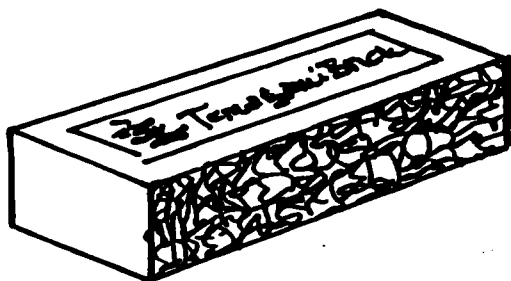
AK115-  
CONCEPTUAL  
DRAFT  
10/01/93

**FOR VARIETY AND CHOICE**

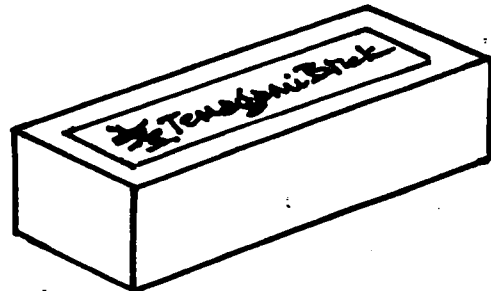
**... TAILORED PRODUCT MATCHING YOUR CUSTOMER'S NEEDS**

**BRICK STYLES**

**ROCK FACE**



**SMOOTH**



**SIZES**

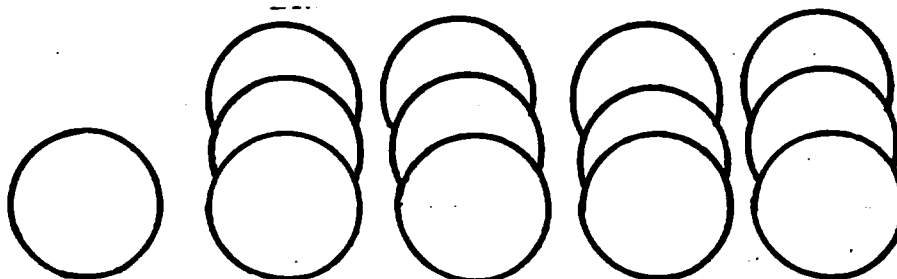
New technology in mould design and efficiency in mould interchangeability means we will make any of the standard sizes in use in Canada and the USA. There are ~~XX~~ <sup>12</sup> standard sizes listed by the Brick Institute of America.

**Custom sizes for your order ... our speciality.**

**COLOURS**

**A broad range of durable colour pigments available.**

**Whites..... Greys..... Buffs..... Rusts..... Browns.....**



## **A STORY OF SUSTAINABILITY**

In 1990 the Sherman Mine in Temagami in Northern Ontario shut down. For more than twenty years it had supplied Dofasco in Hamilton with iron oxide pellets as feedstock for their steelmaking operations. When the quantity of high grade ore diminished continued operation of the mine in the end became unfeasible. Left behind were 55 million tons of tailings.

Reposing in this environmental liability is a treasure of technological innovation opportunities. The tailings are mainly grey chert and red jasper, both silica. Also associated with the gangue materials are small quantities of iron ore particles.

Out of this mixture of materials, Temagami Brick creates three valuable co-products. Sand-lime bricks and aerated concrete are the primary products which are manufactured. Once separated from the silica, the iron is sold as a natural pigment. If left in the brick material and selectively roasted, the result is pleasing earth tones. Hence where coloured bricks are sold at a premium, Temagami Bricks are coloured at no extra cost.

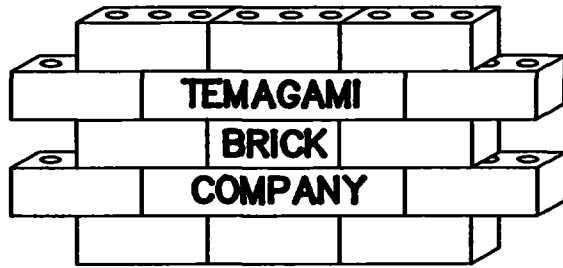
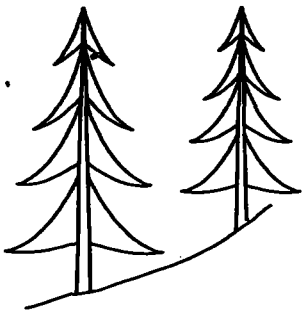
Standard processing of silica requires the use of gypsum. Rather than use this as a feedstock to the process, Temagami Brick brings in lime and combines it with acidic mine wastes to create its own gypsum to feed our process.

The exploitation of these bricks is a move toward a sustainable future. Without exploiting new resources Temagami Brick has shown there are materials enough in the wastes of the past to provide for us now and in the future.

## **A PARADIGM SHIFT**

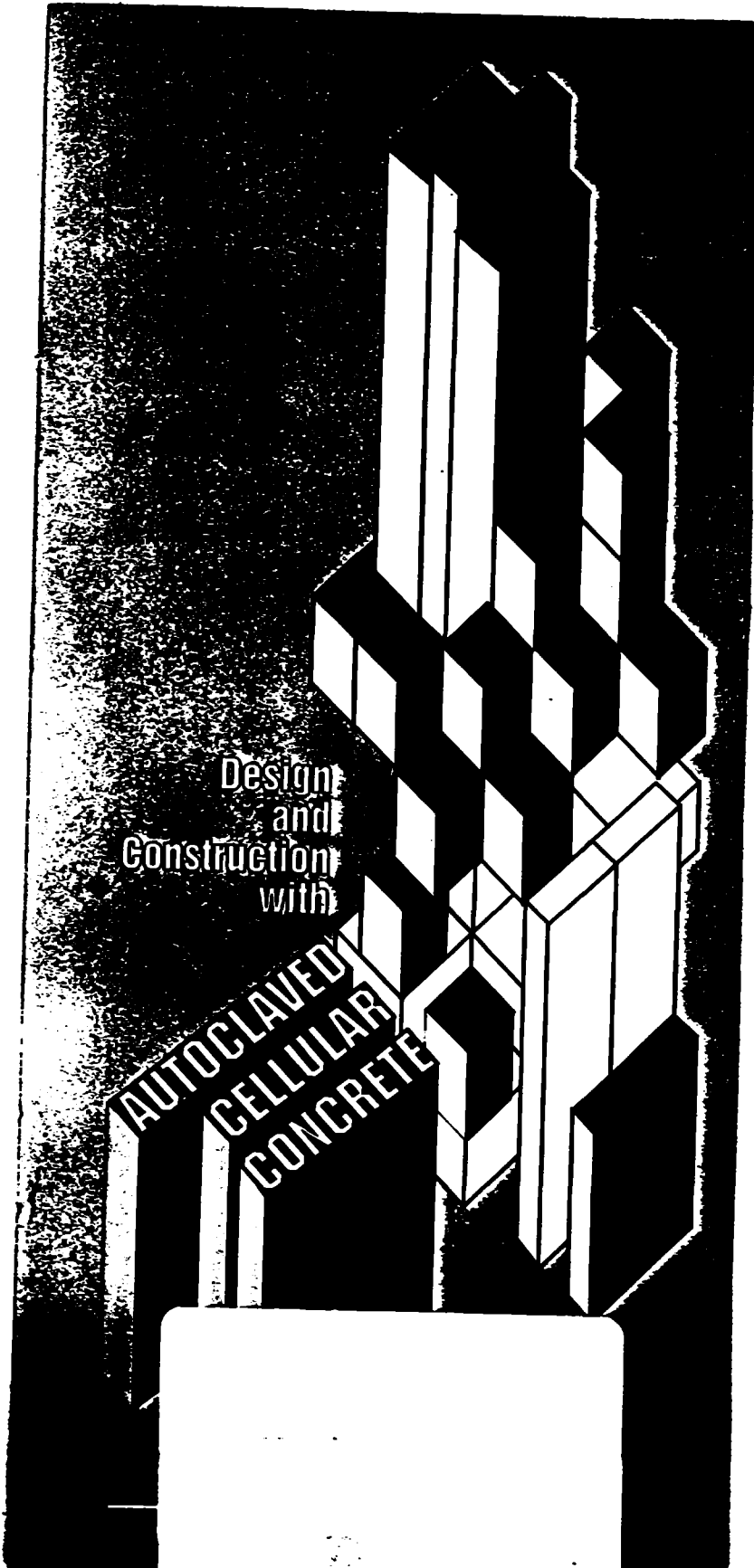
The breakthroughs by Temagami Brick are a result of a new look at what was previously viewed as an environmental liability. Temagami Brick sees the Sherman Mine Tailings as a valuable commodity. It is conceivable that mine exploration may in the future discover iron ore mines where iron is the by-product and silica the main product. Old mines with acidic waste and low grade ore tailings have a renewed life through the application of the Temagami Brick process.

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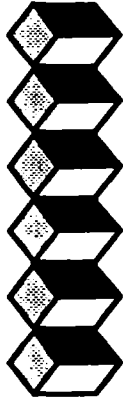
172 MARGUERITE LANE,  
BURLINGTON, ONTARIO, L7L 2P2

PHONE (905) 634-3312  
FAX



# HOW CAN TEMAGAMI AC PRODUCTS BE USED?

---



Autoclaved Cellular Concrete is a

- *structural* building material

in concrete masonry unit (CMU) blocks and precast panels (either reinforced or prestressed)

- *lightweight,*
- *environmentally sound,*
- *fire resistant,*
- *workable,*
- *sound absorbent*

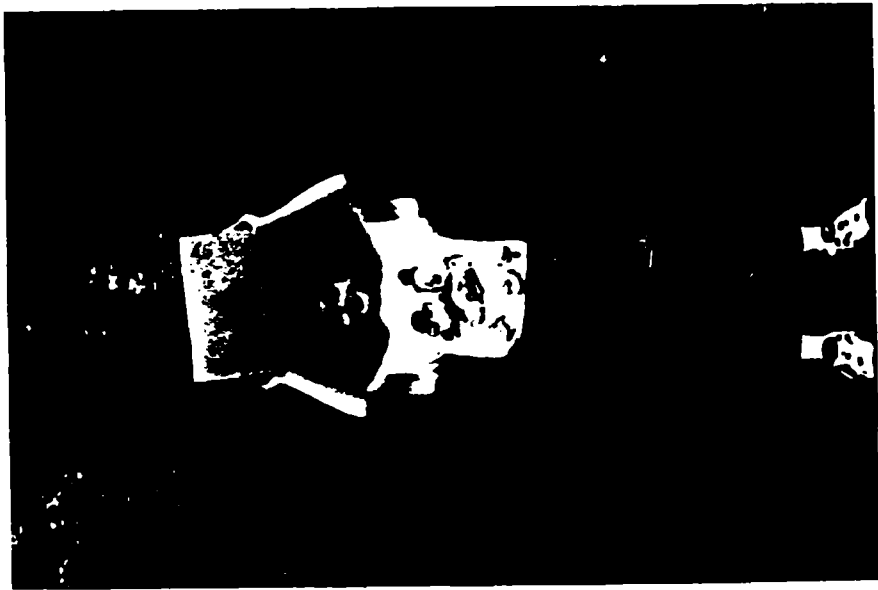


# WHAT IS IT?

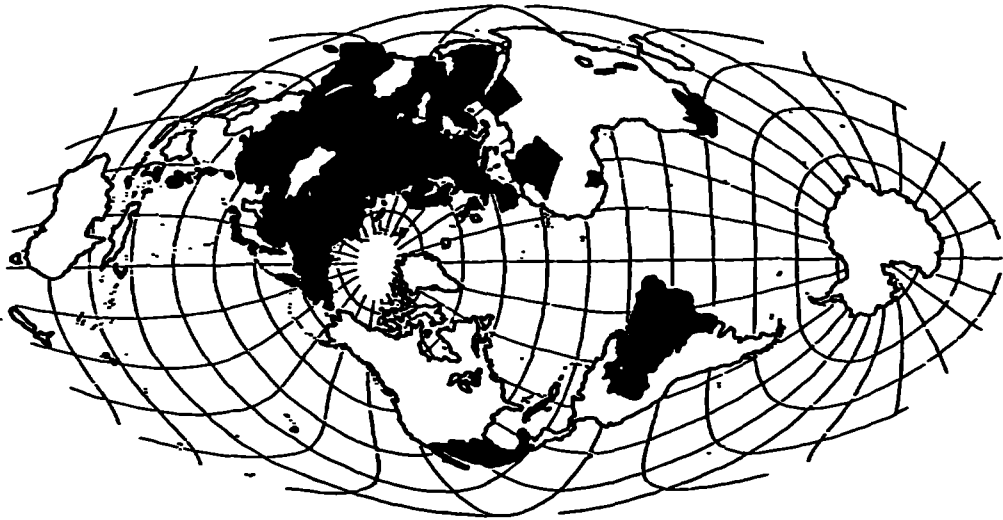
Autoclaved Cellular Concrete is a

- lightweight,
- environmentally sound,
- fire resistant,
- structural building material in concrete masonry unit (CMU) blocks and precast panels (either reinforced or prestressed)

**TEMAGAMI AC** contains up to 75% of recycled **TAILINGS** with the remainder cement and lime.



222 PLANTS IN 35 COUNTRIES



# WHEN SHOULD YOU CHOOSE TEMAGAMI AC

**TEMAGAMI AC** is a viable alternative to other traditional structural or cladding systems:

- CMU construction
- Wood frame
- Precast concrete panelized system
- Stress-skin panels
- Tilt-up

For a variety of building types:

• **RESIDENTIAL:**

- Single-family houses
- Condominiums
- Townhouses
- Planned communities
- Additions
- Firewall retrofits

• **INSTITUTIONAL:**

- Hospitals
- Nursing homes
- Day-care centers
- Schools
- Gymnasiums
- Correctional facilities

• **COMMERCIAL:**

- Shopping centers
- Warehouses
- Office buildings
- Restaurants

• **INDUSTRIAL AND FARMING**

- Manufacturing plants
- Cold storage
- Livestock facilities

STRUCTURAL SPANNING SYSTEMS

Sloped Roof Panel  
-Skylights or  
-Fin Partitions

ROOFTOP  
ENCLOSURES  
-Fenhouses

FLOOR PANELS  
OR FLAT ROOF  
CONSTRUCTION

Block or Panel  
Elevator Shaft  
-Stair Enclosure

PREFABRICATED STAIR

STEEL CASED PANELS  
-Tie Roofing

Block or Panel  
PARTY WALL

INTERIOR BLOCK WALL  
-Fire Wall

EXTERIOR PANEL WALL

EXTERIOR BLOCK WALL  
-Lintels and Piers

ARCHITECTURAL  
DECORATIVE  
SHAPES

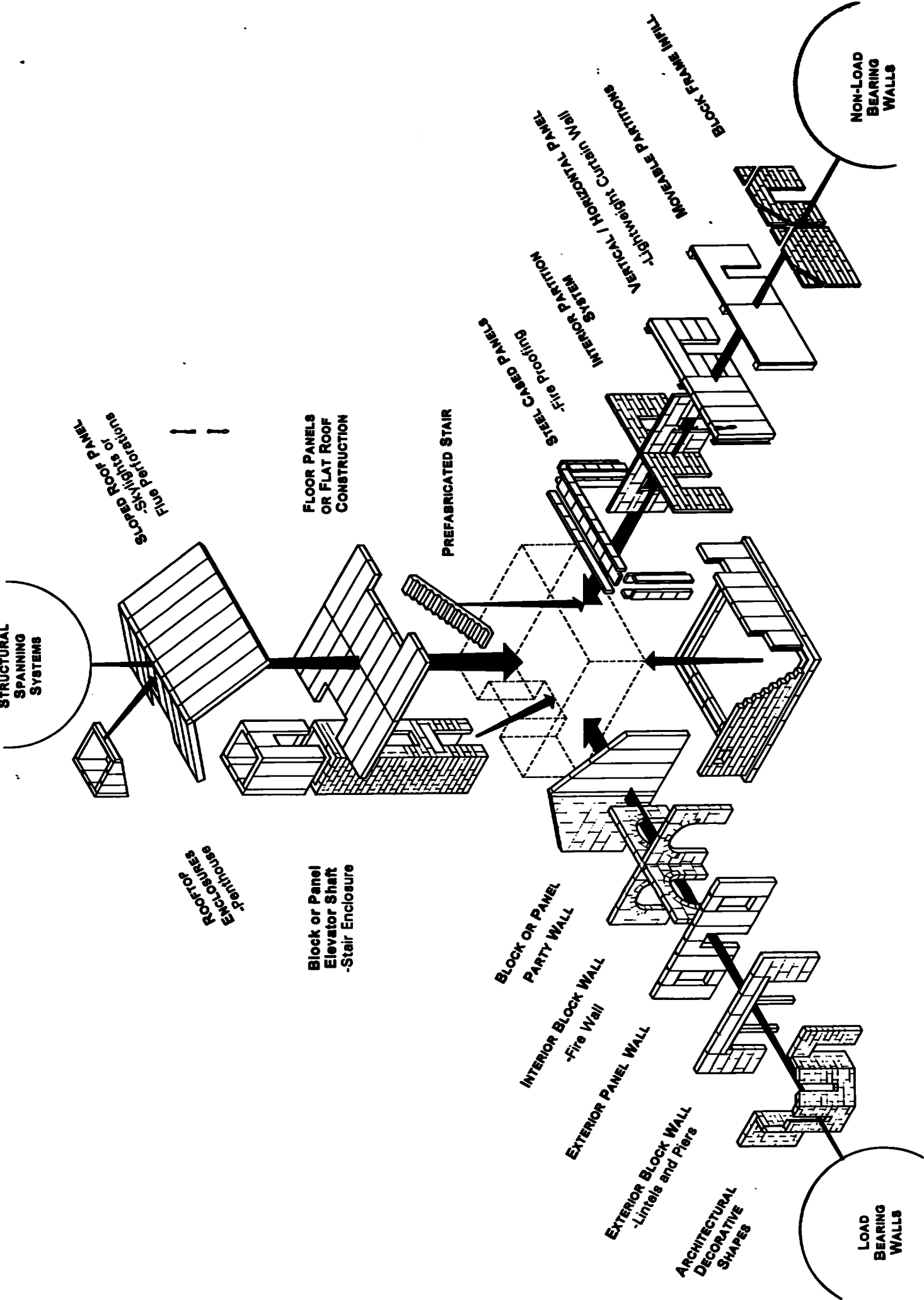
INTERIOR PARTITION  
SYSTEM

VERTICAL / HORIZONTAL PANEL  
-Lightweight Curtain Wall

MOVABLE PARTITIONS  
BLOCK FRAME IN WALL

NON-LOAD  
BEARING  
WALLS

LOAD  
BEARING  
WALLS



# WHY USE IT?

ANS. THE BEST IN-THE-WALL COST ADVANTAGE

## 1. Environmental Soundness

### • IN PRODUCTION AND MANUFACTURE

- Recycling of **SHERMAN MINE TAILINGS** as primary raw material
- Recycling of **AC** manufacturing by-products: condensate from autoclaving, hardened waste, and unhardened mixture
- Low total energy consumption during production, including conditioning energy for raw materials, internal power consumption, and energy contents of raw materials (e.g., lime, cement, aluminum powder)
- Exhaust steam recovery

### • IN TRANSPORTATION AND ASSEMBLY FOR ON-SITE CONSTRUCTION

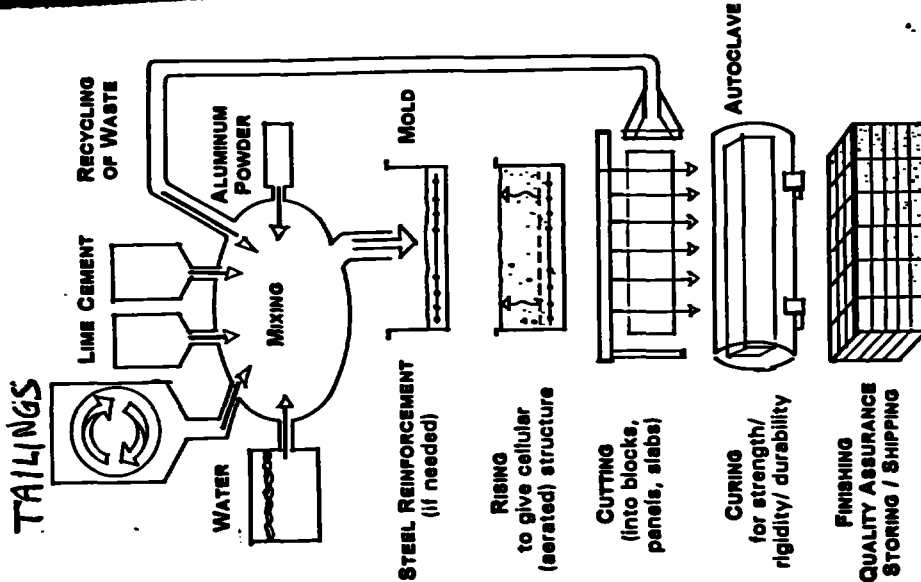
- Local production
- Fuel savings during transporting and handling because material is lightweight (80% pore content)
- Workability

### • IN BUILDING OPERATION

- Good thermal insulation:  $\pm R-1.35$  per inch or R-11 for 8-inch thickness
- Healthful material: no heavy metals, toxic gas emissions, or radioactivity
- Durability: resistance to rot and mildew; greater stability of this uniform and homogeneous material than of ordinary cured concrete

## 2. Strong Structural Properties

- Lightweight ( $\pm 30$  lbs per cubic foot), resulting in dead load reduction - good for:
  - seismic advantage
  - additions and retrofits to existing structures
- Compressive strength ( $\pm 500$  psi) - suitable for load-bearing walls or panels, with steel reinforcing ideal for bending applications as in floor or roof panels



## 3. High Fire Resistance

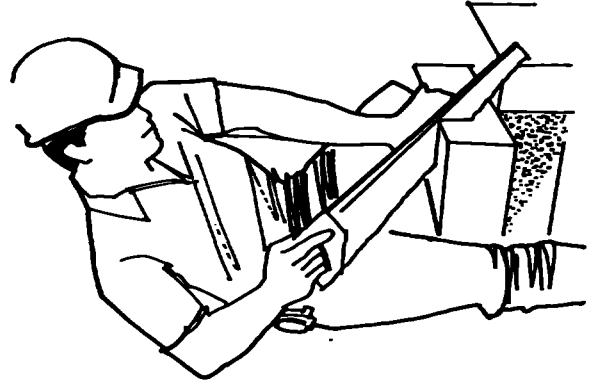
2-hour fire-rating for 4-inch thickness; also very effective as fireproofing

## 4. Sound Absorbency

**TEMPERAM** provides better insulation against airborne sound and better sound absorption than other building materials such as dense concrete and clay bricks

## 5. Versatility In Detailing and Appearance

- Dimensional precision
- Suitability for accepting a variety of finishes, coatings, and veneers
- Workability - can be drilled, sawed, chiseled, or nailed much like wood



## HOW DOES COMPARE?

### FIRE RATING

|  |            |
|--|------------|
| 4" ACC   | 4 hours    |
| 2 1/2" ACC   | 2 hours    |
| 6" Lightweight Concrete Block Wall                                 | 1 hour     |
| 2" Gypsum Board (1" fire shield + 1/2" gypsum board on both sides) | 1 hour     |
| 2x4 Wood Frame Wall (two layers 1/2" gypsum board)                 | 45 minutes |

### WEIGHT

| Assemblies                   | Pounds per square foot |
|------------------------------|------------------------|
| 2x6 Wood Frame Finished Wall | 7.9                    |
| 4" ACC (25 pcf)              | 8.3                    |
| 8" ACC (25 pcf)              | 16.7                   |
| 4" Lightweight CMU           | 32                     |
| 8" Brick Wall                | 61                     |

### THERMAL INSULATION

|                      | R-value per inch |
|----------------------|------------------|
| Expanded Polystyrene | 3.57             |
| ACC (25 pcf)         | 1.66             |
| Plywood              | 1.24             |
| 8" Hollow Core CMU   | 0.14             |
| Concrete             | 0.08             |

### Assemblies\*

|                                      | R-value                         |
|--------------------------------------|---------------------------------|
| 8" ACC (25pcf)                       | 14.9                            |
| Insulated Wood Frame (exterior wall) | 13.5 (including framing factor) |
| 8" Lightweight CMU (exterior wall)   | 4.4                             |

\*Assemblies include gypsum board finish and exterior siding or stucco finish.

### SOUND PROPERTIES

| Sound Transmission Coefficient         | Decibels |
|--|----------|
| 6" Cast-in-Place Concrete              | 50       |
| 6" ACC Wall                            | 41       |
| 6" Brick Wall                          | 41       |
| 6" Solid Concrete Wall (normal weight) | 38       |
| 6" Lightweight Hollow CMU              | 33 to 37 |
| 2x4 Wood Frame (gypsum board finish)   | 32 to 36 |

## COMPRESSIVE STRENGTH

Pounds per square inch

|   |           |
|---|-----------|
| Hollow CMU (normal weight)                  | 1100-1800 |
| Southern Pine No. 2 (parallel to grain)     | 900       |
| ACC (44 pcf)                                | 870       |
| Cinder Block                                | 700-1000  |
| Southern Pine No.2 (perpendicular to grain) | 390       |
| ACC (25 pcf)                                | 290       |

## ENERGY (Consumed During Manufacturing)

MJ/m<sup>3</sup>

|              |           |
|--------------|-----------|
| ACC (31 pcf) | 1000-1500 |
|--------------|-----------|

Burned Brick uses 2 to 3 times the amount of energy during manufacturing.

Pumice Concrete and Sand Lime Concrete are the only concrete materials which compare to the ACC Product.

## Technical Data Sources

ACC Data:

- A Review of Autoclaved Concrete Products MBSIR 87-3670 - U.S. Department of Commerce - National Bureau of Standards quoting: "Autoclaved Aerated Concrete" - CEB "Manual of Design and Technology" - CEB, New York (1978)
  - ibid. quoting: "Autoclaved Aerated Concrete" - Building Digest #6 - Central Building Research Institute, India (December 1970)
  - "CELCON Aerated Concrete Building Blocks" - Technical Handbook (April 1986)
  - Typical Densities from IQ
  - Thermallite - The Handbook (January 1992)
  - "Autoclaved Aerated Concrete Properties, Design and Testing" - RILEM Recommended Practice from the Construction with AAC (October 1992)
- All other comparative data from:
- Construction Principles, Materials, and Methods, Olin, Harold B. (1983)
  - Timber Construction Manual, American Institute of Timber Construction (1985)



# **noranda**

**Noranda Exploration Company, Limited  
(no personal liability)  
60 Shirley St. South, P.O. Box 1205  
Timmins, Ontario  
P4N 7J5**

**Telephone: (705) 268-9600  
Fax: (705) 268-9572**

---

**24 November 1992**

**Gino Chitaroni  
P.O. Box 271  
Cobalt, Ontario  
POJ 1CO**

**Dear Gino,**

**Thank you for giving us an opportunity to evaluate your Granite Lake property in Best Township. Compilation of available geological-geophysical data was completed and the property is of no interest to us at the present time.**

**Enclosed are copies of our assays from samples taken on the property, together with a map showing the sample locations.**

**The additional data from the other 3 claim groups you sent is received and will be compiled when time allows. Please keep in contact and any future property submissions will be welcomed.**

**Yours truly,**

**NORANDA EXPLORATION COMPANY, LIMITED  
(no personal liability)**



**Keith Green  
Project Geologist**

**/aaf**

**encl.**

---



# Report of Work Conducted After Recording Claim

## Mining Act

Transaction Number

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 requirements of filing assessment work or consult the Mining Recorder.
  - A separate copy of this form must be completed for each Work Group.
  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

|  |                                  |                                      |
|--|----------------------------------|--------------------------------------|
| Recorded Holder(s)<br><i>Gino Chitaroni</i>                          |                                  | Client No.<br><i>117874</i>          |
| Address<br><i>Portage Bay Rd., P.O. Box 271, Cobalt, Ont, P0J1C0</i> |                                  | Telephone No.<br><i>705-679-5946</i> |
| Mining Division<br><i>Sudbury</i>                                    | Township/Area<br><i>Best Twp</i> | M or G Plan No.                      |
| Date Work Performed  | From: <i>Sept 15 /93</i>         | To: <i>Dec 20/93</i>                 |

*Lic K21713*

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

| Work Group   | Type   |
|--|--|
| <input checked="" type="checkbox"/> Geotechnical Survey    | <i>VLF, Magnetometer Geophysical Survey + Line-Cutting + Supervision</i> |
| <input type="checkbox"/> Physical Work, including Drilling |  |
| <input type="checkbox"/> Rehabilitation                    |  |
| <input type="checkbox"/> Other Authorized Work             | <b>SECTION 18 ONLY</b>   |
| <input type="checkbox"/> Assays                            |  |
| <input type="checkbox"/> Assignment from Reserve           |  |

Total Assessment Work Claimed on the Attached Statement of Costs \$ *13,552.00*

**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>Meegwish Inc.</i>                   | <i>P.O. Box 482, Temagami Ont P0H 2H0, PH 1-569-2</i>   |
| <i>Glen McBride "McBride Skinning"</i> |   |
| <i>Gino Chitaroni</i>                  | <i>Portage Bay Rd. P.O. Box 271 Cobalt Ont PH 1-679</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<br><i>Jan 6/94</i> | Recorded Holder or Agent (Signature)<br><i>Gino Chitaroni</i> |
|--|-------------------------|---|

**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<br><i>Gino Chitaroni Portage Bay Rd. P.O. Box 271 Cobalt Ont P0J1C0</i>   |                         |   |
| Telephone No.<br><i>1-705-679-5946</i>  | Date<br><i>Jan 6/94</i> | Certified By (Signature)<br><i>Gino Chitaroni</i> |

**For Office Use Only**

|                          |                                 |                 |                |
|--------------------------|---------------------------------|-----------------|----------------|
| Total Value Cr. Recorded | Date Recorded                   | Mining Recorder | Received Stamp |
|                          | Deemed Approval Date            | Date Approved   |                |
|                          | Date Notice for Amendments Sent |                 |                |

| Work Report Number for Applying Reserve | Claim Number (see Note 2) | Number of Claim Units |
|---|---------------------------|-----------------------|
| <del>1165508</del> HC                   | 1165508                   | 2                     |
| # HC                                    | 1179179                   | 4                     |
|   | 1165507                   | 6                     |
|   | 1179079                   | 1                     |
|   | 1179077                   | 1                     |
|   | 1179080                   | 1                     |
|   | 1118498                   | 1                     |
|   | 1179078                   | 1                     |
|   | 1179176                   | 1                     |
|   | 1179177                   | 1                     |
|   | 1118863                   | 1                     |
|   | 1179178                   | 1                     |
|   | 1165505                   | 1                     |
|   | 1118864                   | 1                     |
|   | 1118862                   | 1                     |
|   | 1118507                   | 1                     |
|   | 1118500                   | 1                     |
| <b>Total Number of Claims</b>           | <b>17</b>                 | <b>26 units</b>       |

| Value of Assessment of Work Done on this Claim | Value Applied to this Claim |
|--|-----------------------------|
| <del>\$840.00</del> HC                         | <del>\$840.00</del> HC      |
| 350.00   | 350.00                      |
| 1,000.00                                       | 1,000.00                    |
| 777.28   | 777.28                      |
| 777.28   | 777.28                      |
| 777.28   | 777.28                      |
| 777.28   | 777.28                      |
| 777.28   | 777.28                      |
| 777.28   | 777.28                      |
| 777.28   | 777.28                      |
| 777.28   | 777.28                      |
| 777.28   | 777.28                      |
| 777.28   | 777.28                      |
| 777.28   | 777.28                      |
| 777.28   | 777.28                      |
| 777.28   | 777.28                      |
| <b>Total Value Work Done</b>                   | <b>12,774.64</b>            |

| Value Assigned from this Claim | Reserve: Work to be Claimed at a Future Date |
|--------------------------------|--|
| 0                              | 0  |
| 0                              | 0  |
| 0                              | 0  |
| 0                              | 0  |
| 0                              | 0  |
| 0                              | 0  |
| 0                              | 0  |
| 0                              | 0  |
| 0                              | 0  |
| 0                              | 0  |
| 0                              | 0  |
| 0                              | 0  |
| 0                              | 0  |
| 0                              | 0  |
| 0                              | 0  |
| 0                              | 0  |
| 0                              | 0  |
| <b>Total Assigned From</b>     | <b>Total Reserve</b>                         |

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

|   |                                  |                  |
|---|----------------------------------|------------------|
| I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed. | Signature<br><i>Gene Chitani</i> | Date<br>Jun 6/94 |
|---|----------------------------------|------------------|





Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des mines

Statement of Costs  
for Assessment Credit

État des coûts aux fins  
du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 150 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 150, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

| Type  | Description                                     | Amount<br>Montant | Totals<br>Total global |
|---|---|-------------------|------------------------|
| Wages<br>Salaires   | Labour<br>Main-d'oeuvre                         |                   |                        |
|   | Field Supervision<br>Supervision sur le terrain | 1,125.00          | 1,125.00               |
| Contractor's<br>and Consultant's<br>Fees<br>Droits de<br>l'entrepreneur<br>et de l'expert-<br>conseil | Type VLF Max<br>Geophysical Survey              | 6,527.00          |                        |
|   | Like Cutting                                    | 5,900.00          |                        |
|   |   | 12,427.00         | 2,427.00               |
| Supplies Used<br>Fournitures<br>utilisées   | Type  |                   |                        |
|   |   |                   |                        |
|   |   |                   |                        |
| Equipment<br>Rental<br>Location de<br>matériel  | Type  |                   |                        |
|   |   |                   |                        |
|   |   |                   |                        |
| <b>Total Direct Costs<br/>Total des coûts directs</b>   |   |                   | <b>13,552</b>          |

2. Indirect Costs/Coûts indirects

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

| Type  | Description | Amount<br>Montant  | Totals<br>Total global |
|---|-------------|--|------------------------|
| Transportation<br>Transport   | Type        |  |                        |
|   |             |  |                        |
|   |             |  |                        |
|   |             |  |                        |
|   |             |  |                        |
| Food and<br>Lodging<br>Nourriture et<br>hébergement   |             |  |                        |
| Mobilization and<br>Demobilization<br>Mobilisation et<br>démobilisation   |             |  |                        |
| <b>Sub Total of Indirect Costs<br/>Total partiel des coûts indirects</b>  |             |  |                        |
| Amount Allowable (not greater than 20% of Direct Costs)<br>Montant admissible (n'excédant pas 20 % des coûts directs) |             |  |                        |
| Total Value of Assessment Credit<br>(Total of Direct and Allowable<br>indirect costs)                                 |             | Valeur totale du crédit<br>d'évaluation<br>(Total des coûts directs<br>et indirects admissibles) |                        |

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

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

Filing Discounts

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

|                                  |                          |
|----------------------------------|--------------------------|
| Total Value of Assessment Credit | Total Assessment Claimed |
|                                  |                          |
| x 0.50 =                         |                          |

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

|                                      |                            |
|--------------------------------------|----------------------------|
| Valeur totale du crédit d'évaluation | Évaluation totale demandée |
|                                      |                            |
| x 0,50 =                             |                            |

Certification Verifying Statement of Costs

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

that as Gino Chitaroni I am authorized  
(Recorded Holder, Agent, Position in Company)

to make this certification

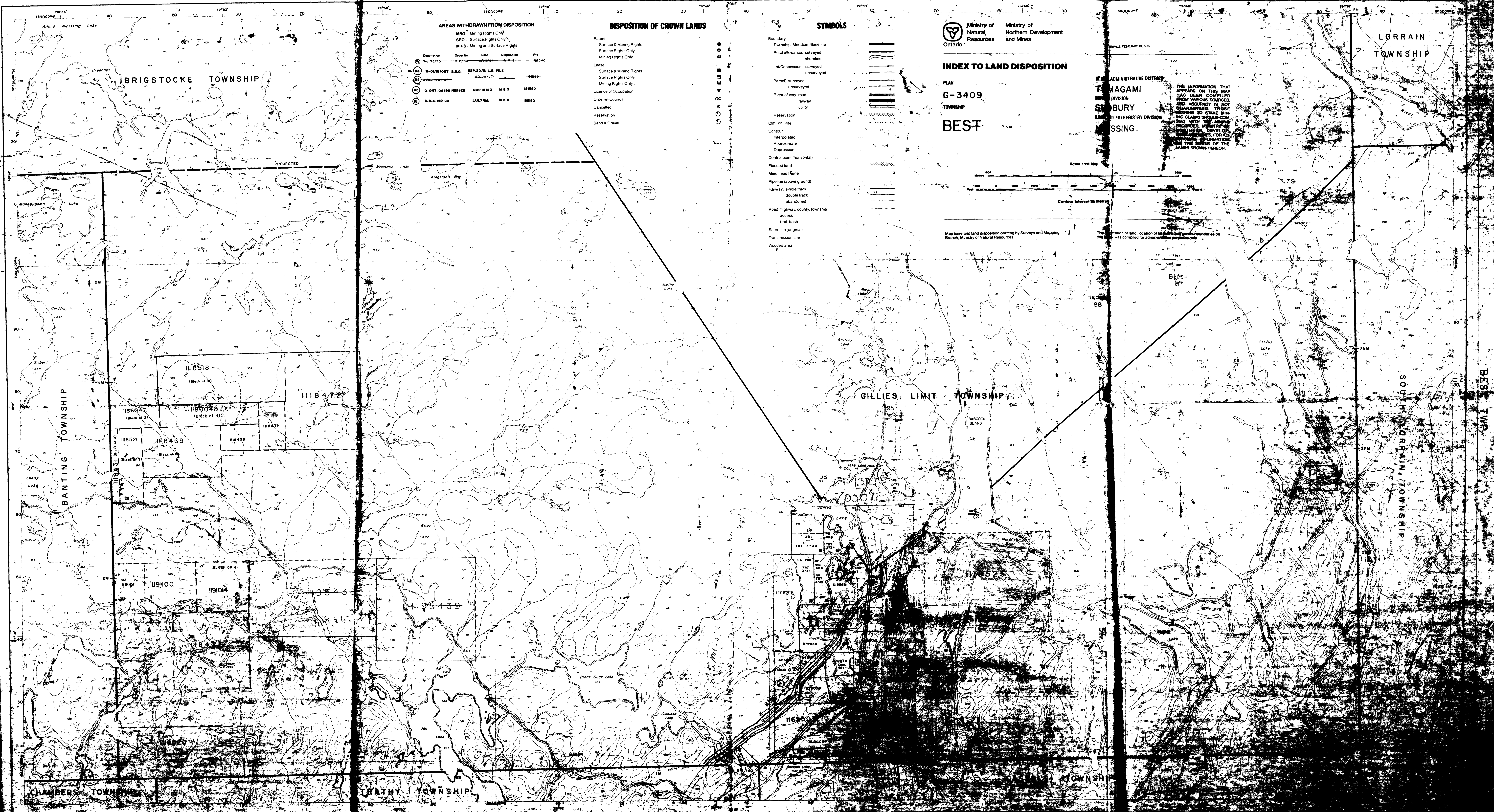
Attestation de l'état des coûts

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

Et qu'à titre de \_\_\_\_\_ je suis autorisé  
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

|                                    |                  |
|------------------------------------|------------------|
| Signature<br><u>Gino Chitaroni</u> | Date<br>Jun 6/94 |
|------------------------------------|------------------|



**AREAS WITHDRAWN FROM DISPOSITION**

MRO - Mining Rights Only  
SRO - Surface Rights Only  
M & S - Mining and Surface Rights

| Description       | Order No. | Date      | Disposition | File  |
|-------------------|-----------|-----------|-------------|-------|
| W-O/RN/ORT A.R.O. | SEP.20/81 | L.R. FILE |             | 18666 |
| O-ONT-06/82       | MAR.18/82 | M & S     |             | 19100 |
| O-B-D/82 CR       | JAN.7/82  | M & S     |             | 19100 |

**DISPOSITION OF CROWN LANDS**

- 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  
Cancelled  
Reservation  
Sand & Gravel

**SYMBOLS**

- Boundary
- Township, Meridian, Baseline
- Road allowance, surveyed shoreline
- Lot/Concession, surveyed unsurveyed
- Parcel, surveyed unsurveyed
- Right-of-way, road railway utility
- Reservation
- Cliff, Pt. Pie
- Contour
- Interpolated
- Approximate
- Depression
- Control point (horizontal)
- Flooded land
- Mane head frame
- Pipeline (above ground)
- Railway, single track double track abandoned
- Road, highway, county, township access trail, bush
- Shoreline (original)
- Transmission line
- Wooded area



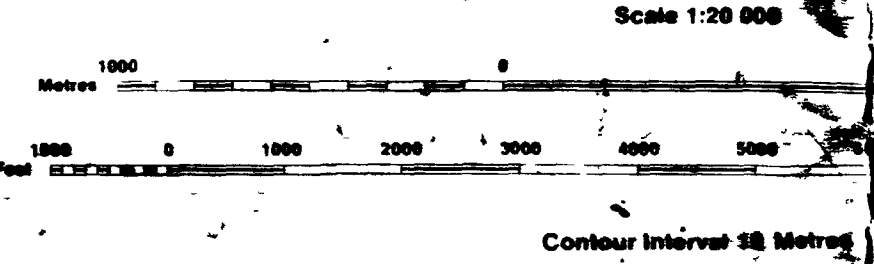
Ministry of Natural Resources  
Ontario

**INDEX TO LAND DISPOSITION**

PLAN  
G-3409  
TOWNSHIP  
**BEST**

ADMINISTRATIVE DISTRICT  
MAGAMI  
DIVISION  
SIBURY  
LAND TITLES/REGISTRY DIVISION  
MISSING

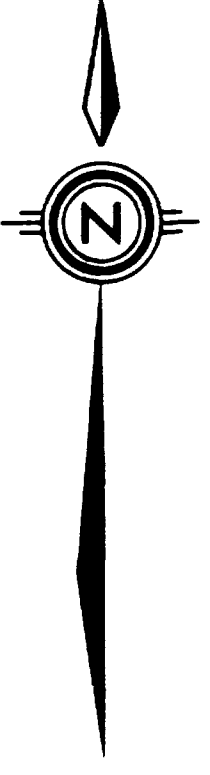
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WHO WISH TO MAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING DIVISION OF THE MINISTRY OF NATURAL RESOURCES FOR MORE INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources

The location of land, location of lots and parcel boundaries on this map was compiled for administrative purposes only.

astro.



TRT  
3733

TRT  
3734

TRT  
3732

TRT  
3731

James  
1118863

11179179

1118507

1118500

1118852

1118806

1179177

117908

1179176

1154727

Granite Lake

1179078

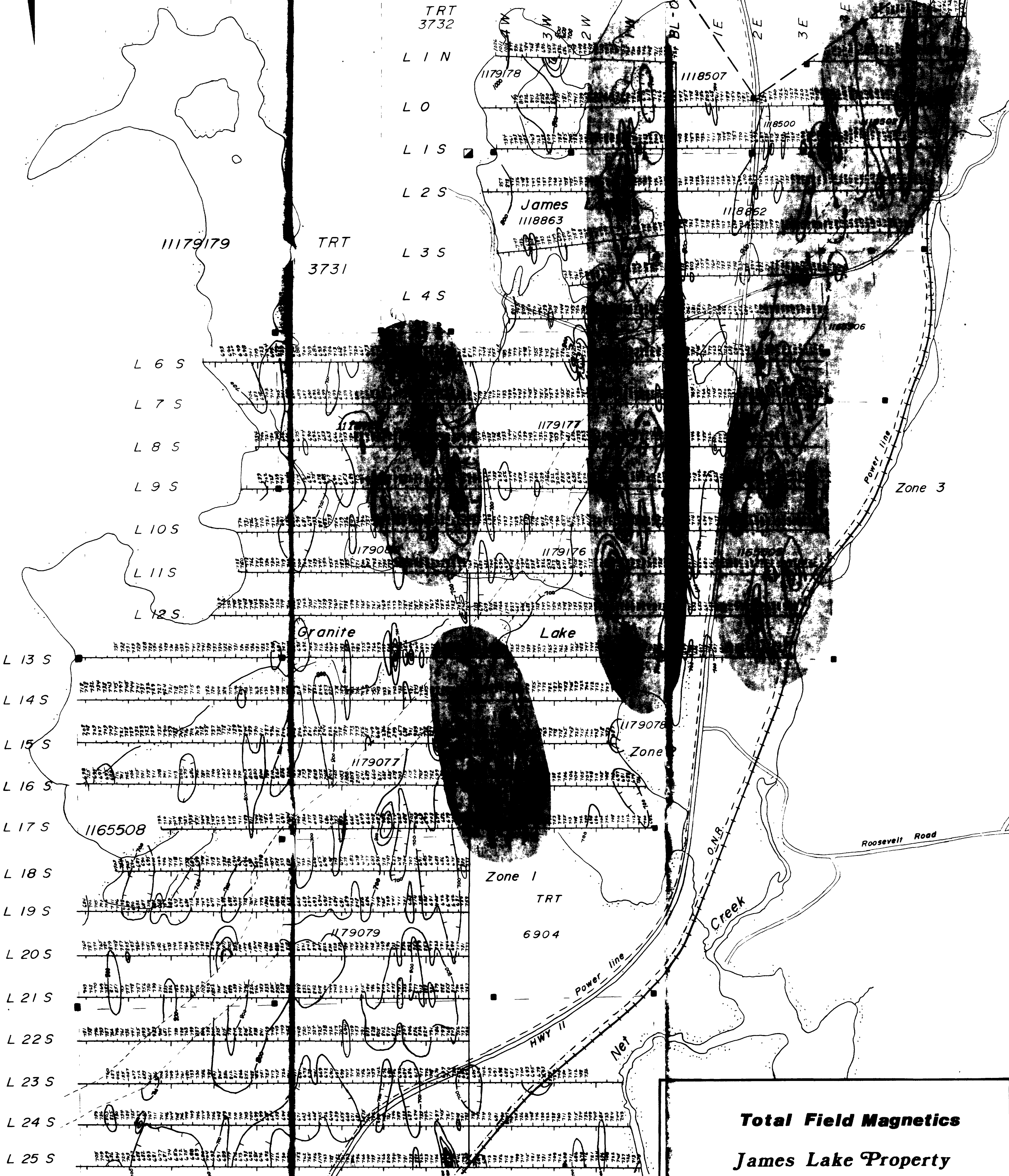
1179077

1165508

Zone 1  
TRT  
6904

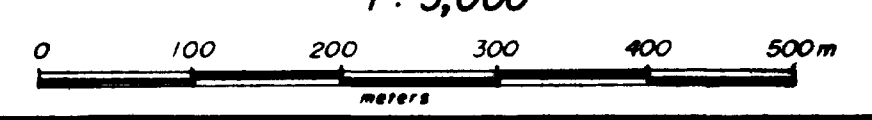
1179079

1165507



**Total Field Magnetics  
James Lake Property  
Best Twp.**

1 : 5,000



MEEGWICH INC.

**Legend**

Contour interval - 100 gammas  
Add 57,000 gammas to readings.  
Note: Pipeline data not contoured

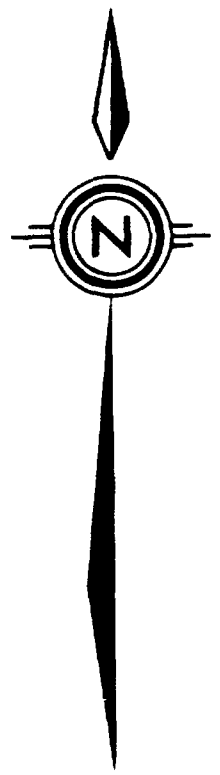
Instrumentation: EDA Omni IV 255147 field  
255168 base

Map & Survey by: D. Laronde



210

astro.



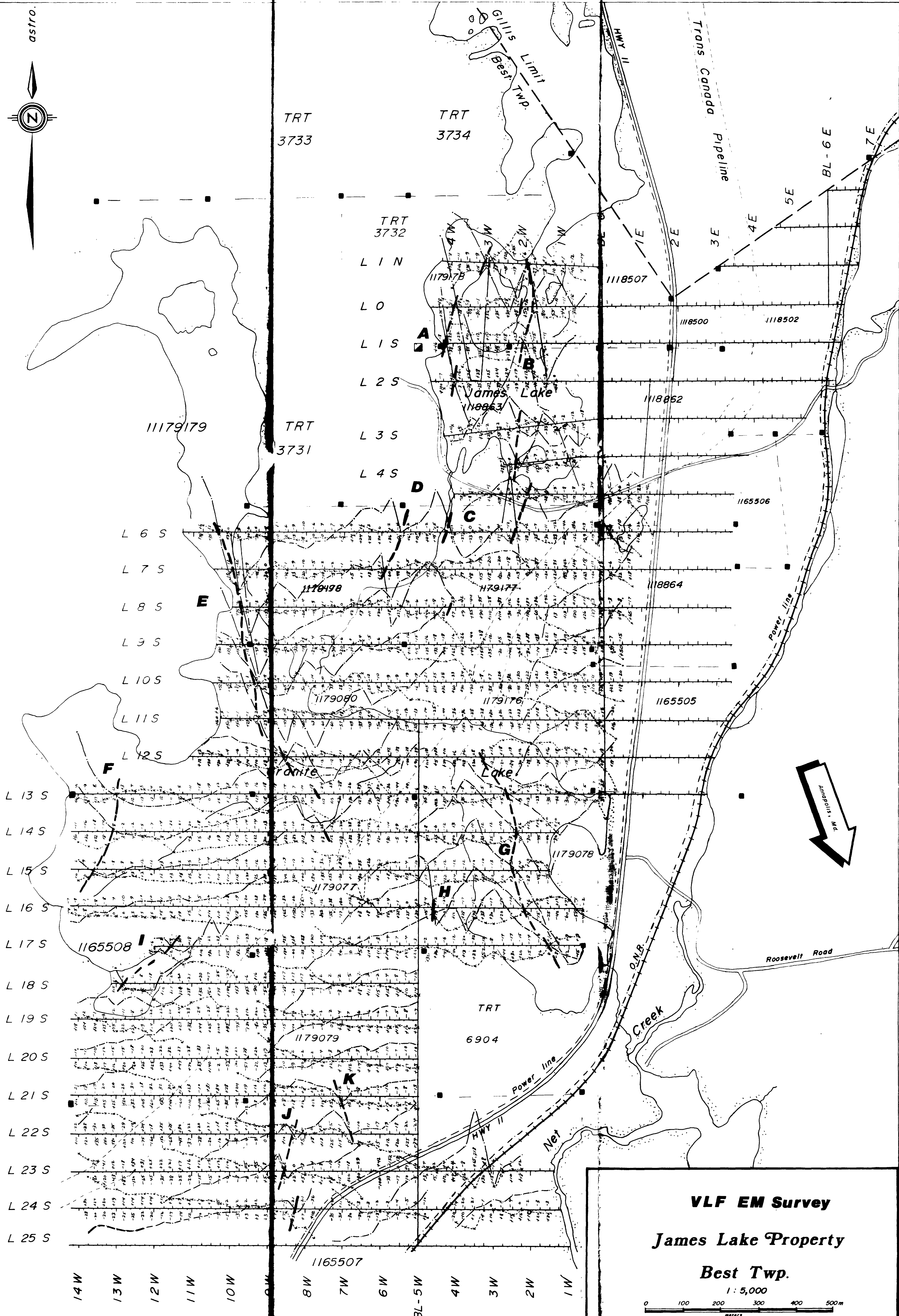
TRT 3733

TRT 3734

TRT 3732

TRT 3731

TRT 6904



L 1 N  
L 2 S  
L 3 S  
L 4 S  
L 6 S  
L 7 S  
L 8 S  
L 9 S  
L 10 S  
L 11 S  
L 12 S  
L 13 S  
L 14 S  
L 15 S  
L 16 S  
L 17 S  
L 18 S  
L 19 S  
L 20 S  
L 21 S  
L 22 S  
L 23 S  
L 24 S  
L 25 S

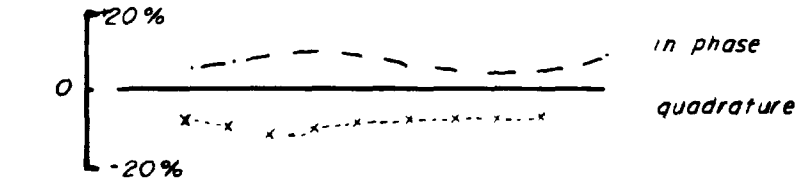
14 W 13 W 12 W 11 W 10 W 9 W 8 W 7 W 6 W BL-5 W 4 W 3 W 2 W 1 W

**VLF EM Survey**  
**James Lake Property**  
**Best Twp.**  
1 : 5,000  
0 100 200 300 400 500 m



220

Profile scale: 1 cm = 20 %



**Legend**

--- conductor

Transmitter: NSS 19.0 k Hz. Annapolis

Note: All readings taken facing east

Instrument: Geonics EM-16 (no.10)

Map & Survey by: D. Laronde

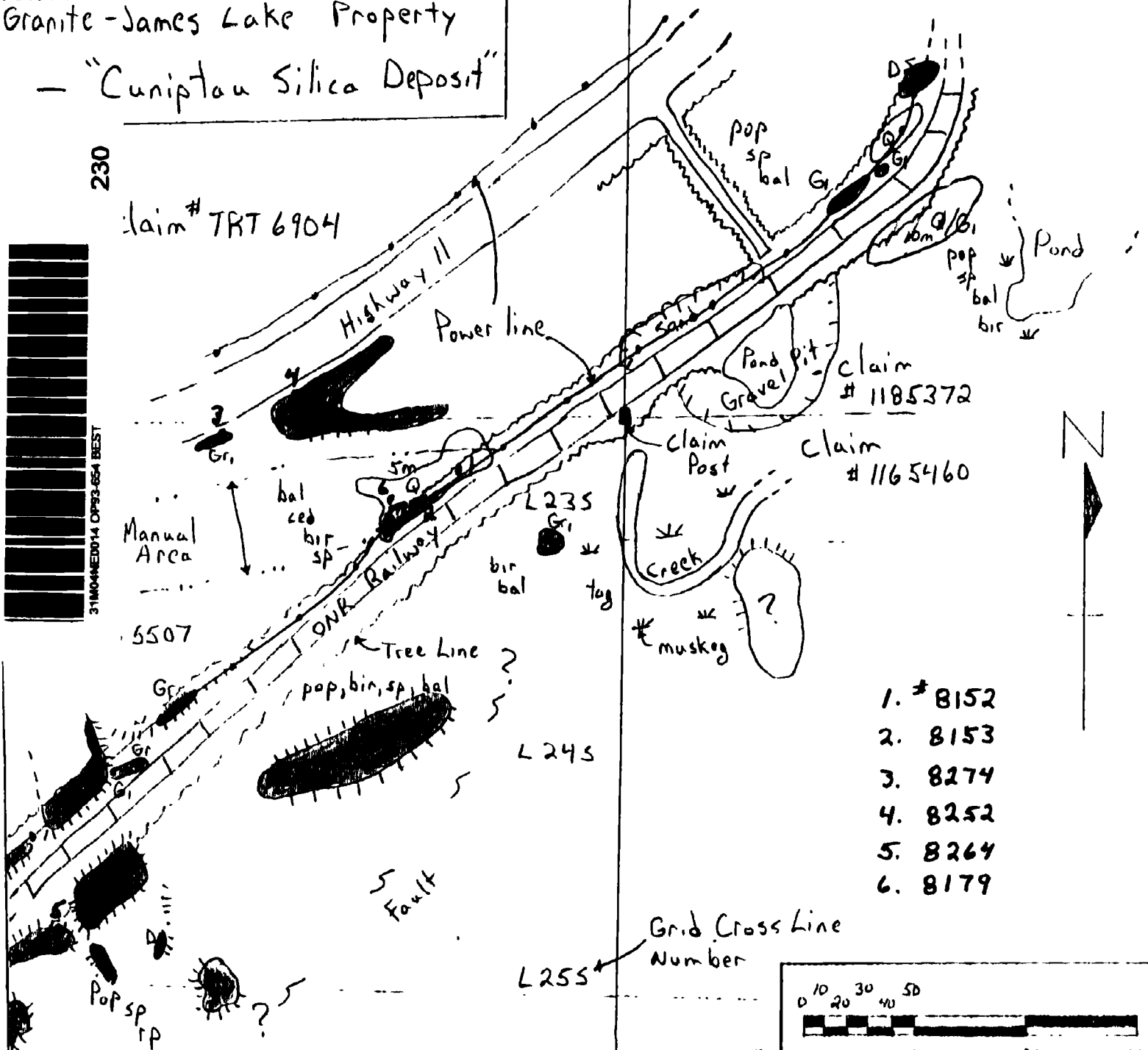
MEEGWICH INC.



Granite - James Lake Property  
 - "Cuniptau Silica Deposit"

230

Claim # TRT 6904



- 1. # 8152
- 2. 8153
- 3. 8274
- 4. 8252
- 5. 8264
- 6. 8179

| Geology        |                          | Legend |                   |
|----------------|--------------------------|--------|-------------------|
| D              | Diabase Dyke             |        | Gravel Pit        |
| Q              | Quartzite-Silica Deposit |        | Outcrop           |
| G              | Red Granite              |        | Ridge             |
| G <sub>g</sub> | Grey Granite             | •      | Sample site       |
| bin            | Birch Tree               | —      | Contact           |
| tag            | Tag Alder                | - - -  | Assumed Contact   |
| sp             | Spruce Tree              | 10m    | Height of Outcrop |
| pop            | Poplar                   |        |                   |
| ced            | Cedar                    |        |                   |
| rp             | Red Pine                 |        |                   |

Scale: 1:2,500 metric  
 Dec 30, 1993  
 Best Township  
 Gino Chitaroni  
 Gino Chitaroni  
 Claim # 1165507

# Granite - James Lake Property "Cuniptau Silica Deposit" Best Township

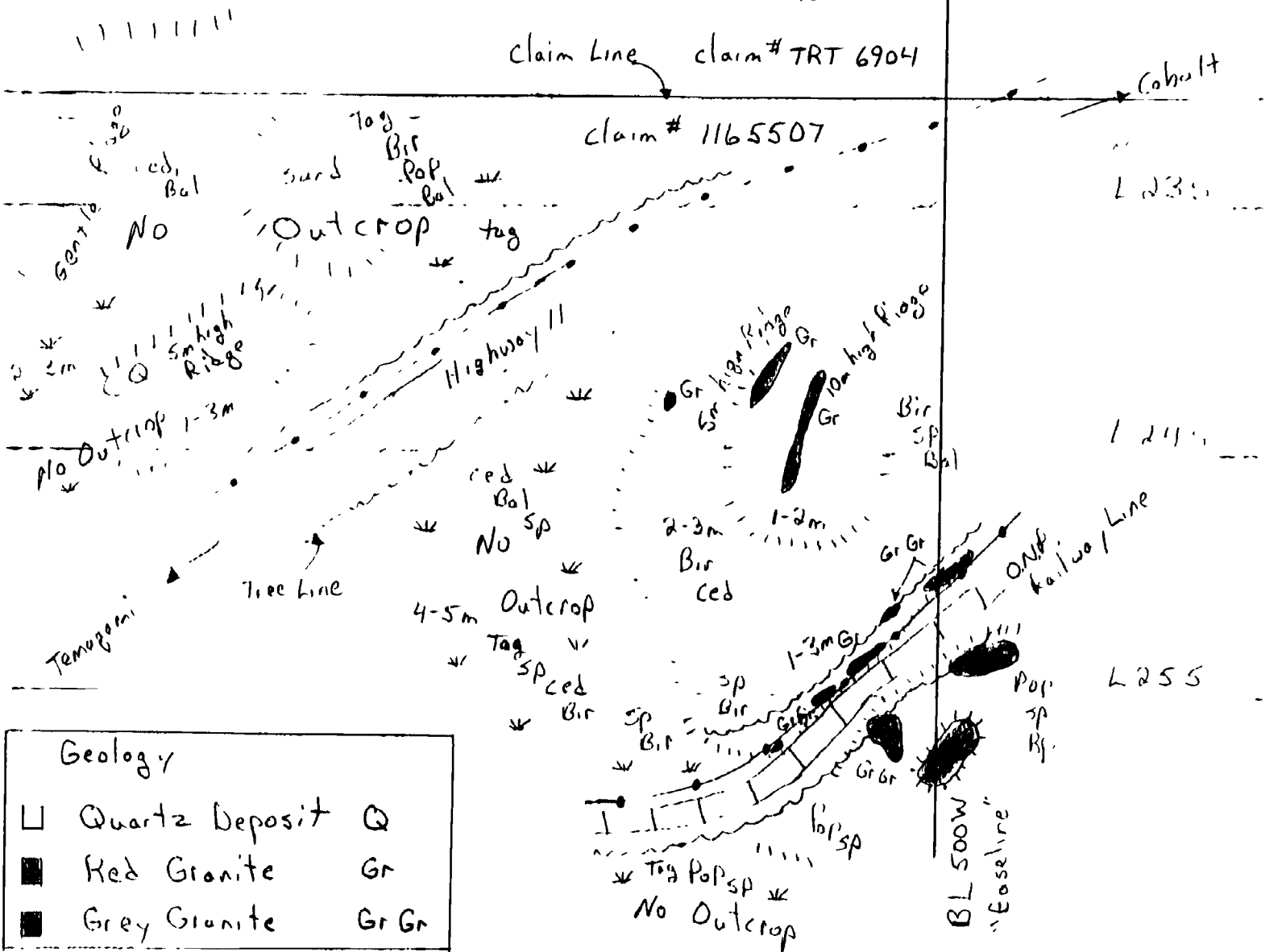


240

275m to Post #1

claim line claim# TRT 6904

claim# 1165507



| Geology |                    |
|---------|--------------------|
| □       | Quartz Deposit Q   |
| ■       | Red Granite Gr     |
| ■       | Grey Granite Gr Gr |

| Symbols |                      |     |            |
|---------|----------------------|-----|------------|
| —●—     | Powerline            |     | Railway    |
|         | Ridge                | tag | Tag Adlers |
| *       | Muskeg               | sp  | Spruce     |
| ○       | Outcrop              | Rp  | Redpine    |
| ==      | Road                 | Pop | Poplar     |
| 2-3m    | Overburden Thickness | Bir | Birch      |
|         |                      | Bal | Balsam     |
|         |                      | Ced | Cedar      |

scale: 1:2,500 metric

Date: December 30, 1993.

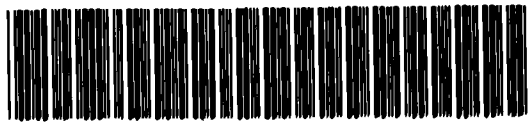
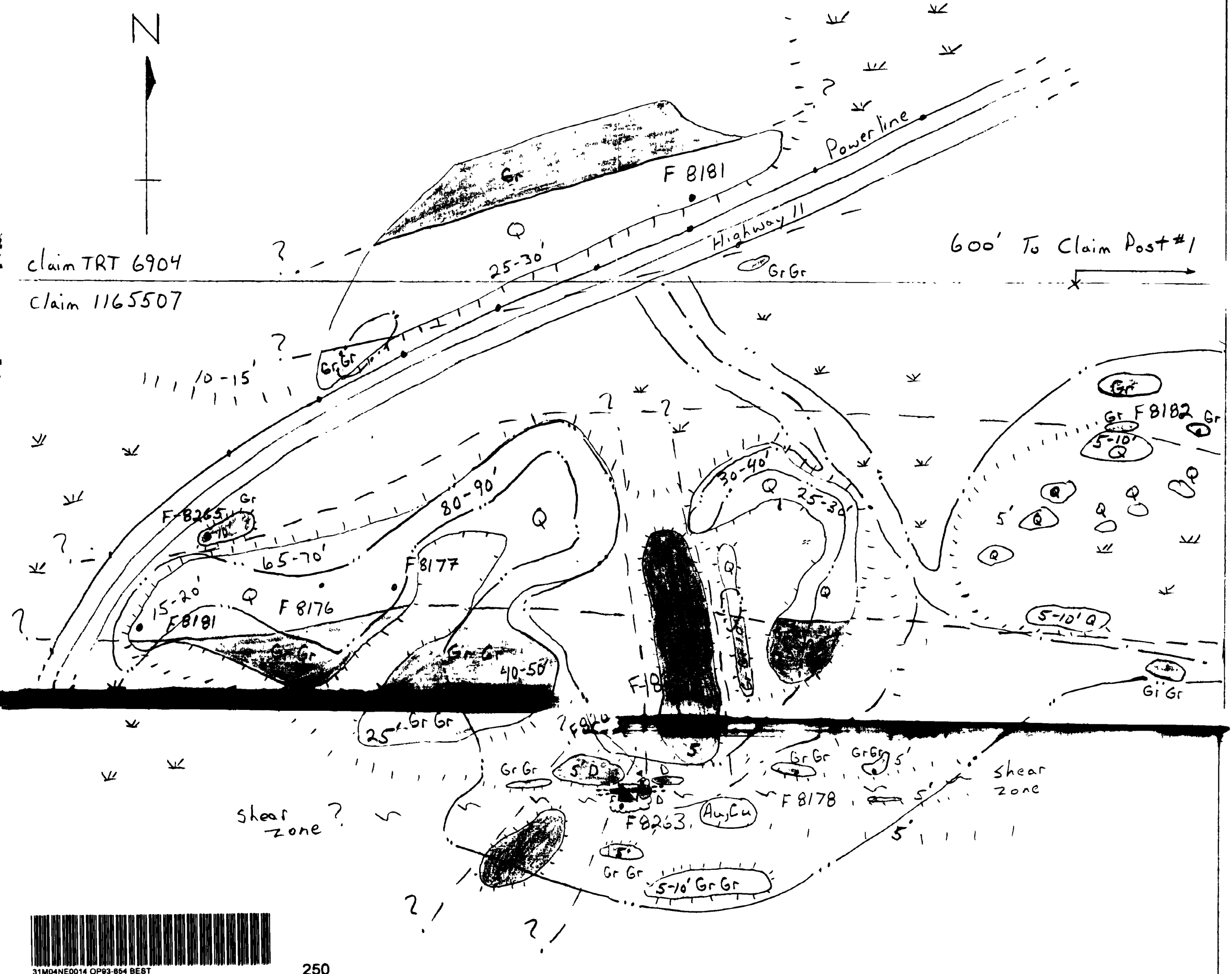
Author: Gino Chitaroni

Claim # 1165507



claim TRT 6904

claim 1165507



250

Note: Danlou shaft/pit : 10'x8 wide x 10' deep.

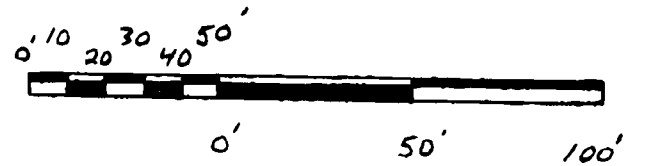
Danlou Vein(s) : shear zone veins of quartz 2-3" to 30" wide over 7-8' width, with a 70° dip North. Au Cu

### Symbols

- Muskeg
- Sample Site
- 5' Height of Land
- Ridge
- Muckpile
- Pit/shaft
- Stripping Area
- Outcrop
- Skidder Trail
- Powerline
- Fault
- Contact
- Assumed Contact

### Legend

- Diabase D
- Quartzite (Silica) Q
- Red Granite Gr
- Grey Granite GrGr - or Quartz Porphyry
- Quartz Vein
- Au Gold Occurrence
- Cu Copper Occurrence



Scale 1" = 50'

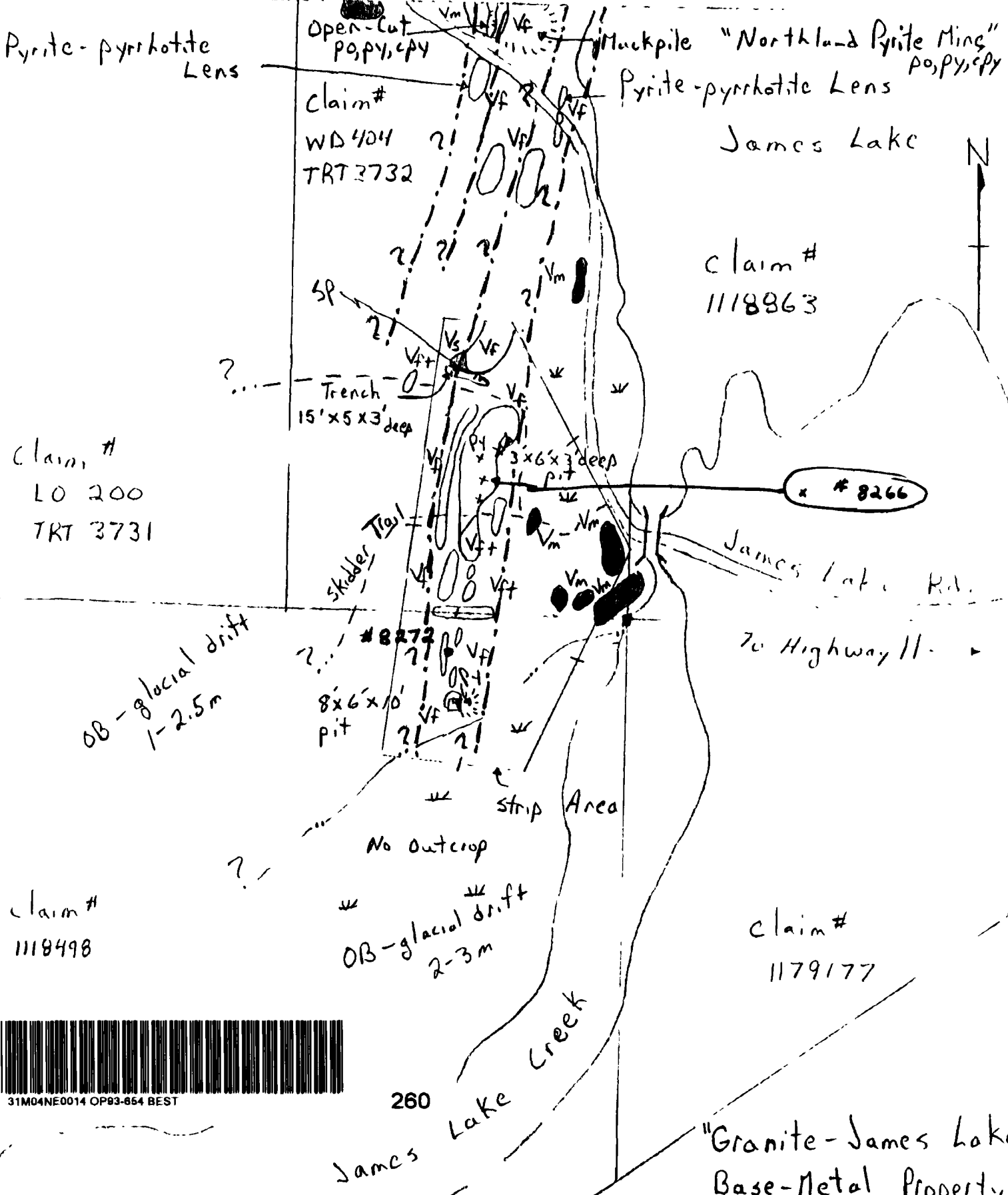
"Cuniptau Silica Deposit"

Granite - James Lake Property (Claim # 1165507)

Best Township

Date: Sept 1st, 1993.

Author: Gino Chitoroni *Gino Chitoroni*



- Geology
- OB Overburden
  - Gr Granite
  - G Gabbro
  - Vs Metavolcanic graphitic schist - sediments
  - Vf Metavolcanic felsic crystal flows
  - Vtt Metavolcanic felsic crystal tuffs
  - Vm Metavolcanic mafic flows

- Symbols
- Swamp Outline
  - Skidder Trail
  - == Gravel Road
  - ▣ Pit
  - ⊞ Trench or Open-Cut
  - ≡ Marsh/Muskeg
  - ☼ Muckpile
  - Pyrite-pyrrohotite Zone Contact

- Sample Site
- × Composite Sample
- Claim Post
- ≡ Culvert
- ⊞ Strip Area Outline

0' 50' 100'

0' 100' 200'

Scale: 1" = 200'

Dec 15, 1993.

Gino Chitaroni

Alta

N



shoreline  
-lainery  
rust colour

rock pile

shaft

rust-coloured  
water

Now filled with  
a Limestone Dam

underwater (marsh ridge)

deep red-brown coloured water

open  
cut

rock pile

James Lake

Road

270



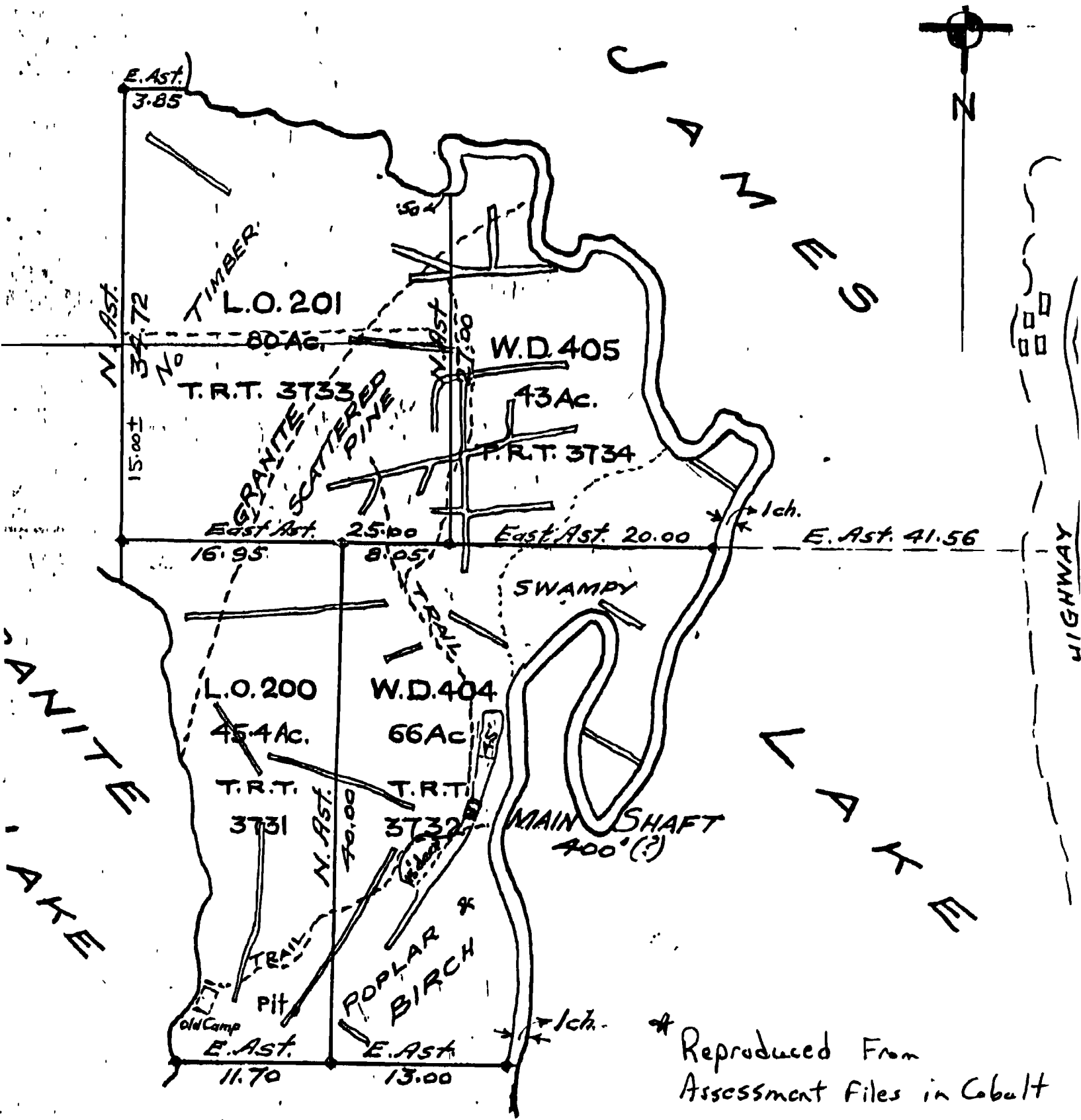
31M04NED014 OPP93-654 BEST

NORTHLAND PYRITE PROPERTY

SCALE

1"=200'

Sept. 15/93

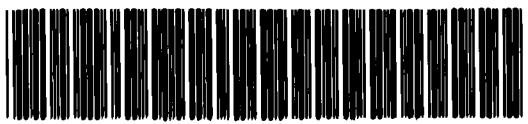


\* Reproduced From  
Assessment Files in Cobalt

1" = 10 chains  
Best Twp.

*His chart*

sept. 15/93



31M04NE0014 OP93-864 BE8T

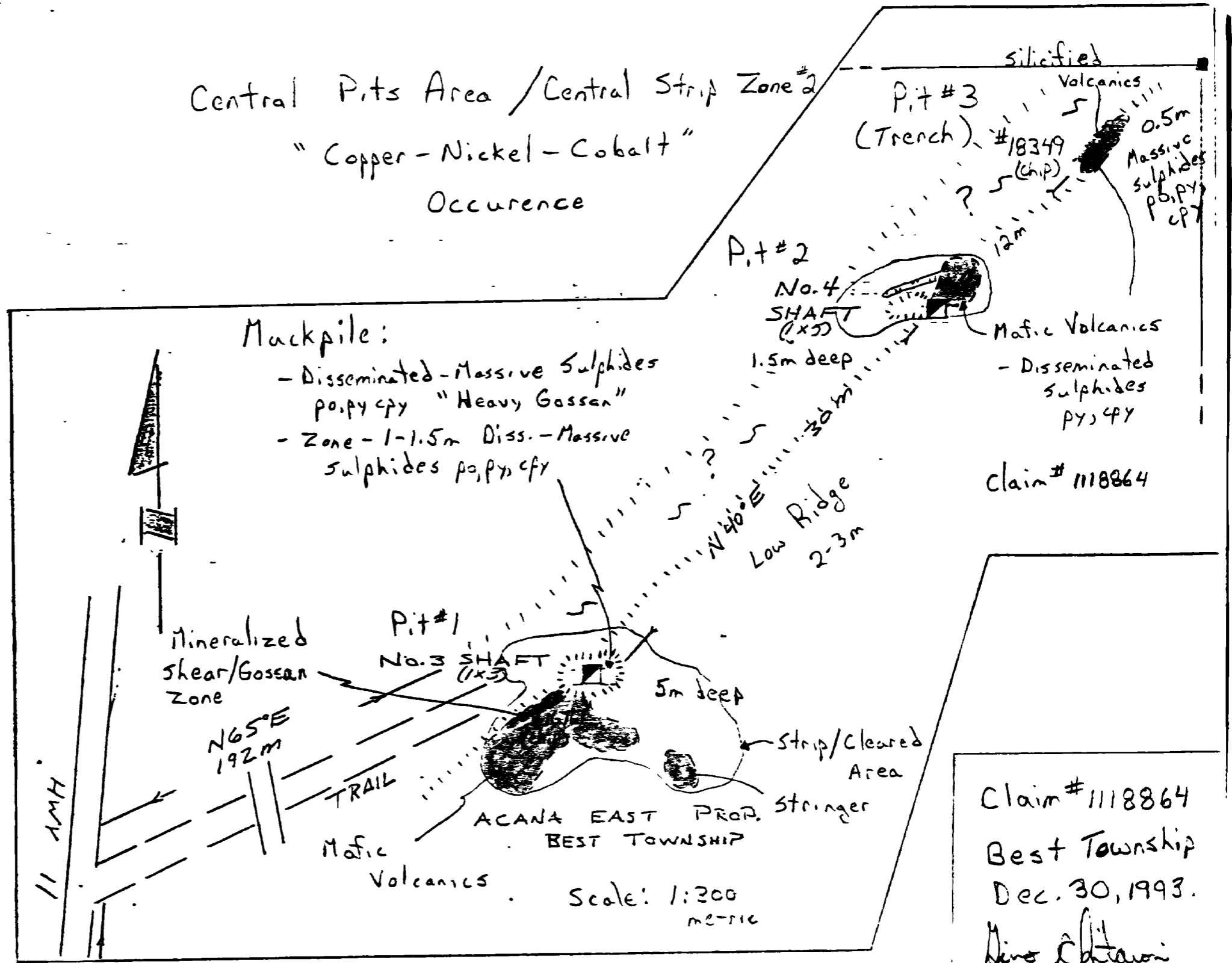
Trenches



### Legend

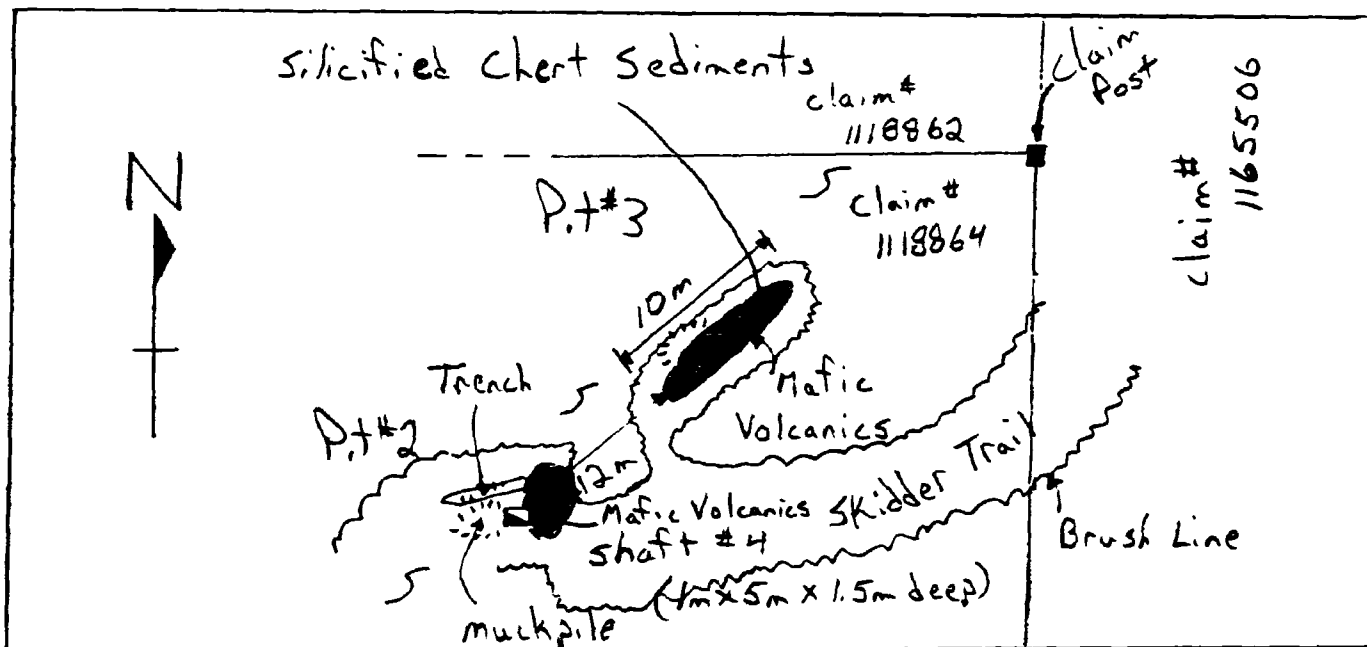
- ▣ Shaft
- Fault
- ☼ Muckpile
- Outcrop
- ◌ Trench
- ⋯ Ridge
- Sample Site #16761
- cpy chalcopyrite
- po pyrrhotite
- py pyrite
- Claim Post

## Central Pits Area / Central Strip Zone #2 "Copper-Nickel-Cobalt" Occurrence



Claim # 1118864  
Best Township  
Dec. 30, 1993.  
Aino Chitani

Central Pits Area / Central Strip Zone #2  
 "Copper - Nickel - Cobalt"  
 Occurrence



- \* Note: ■ Mineralized Zone
- Exposed 10m long x 1.5-2.0m wide
  - Massive sulphides pyrrhotite, pyrite & chalcopyrite (pentlandite?)

012395m

0m 5m 10m 20m

Scale 1:500 metric

Claim # 1118864

Best Township

Dec 30, 1993.

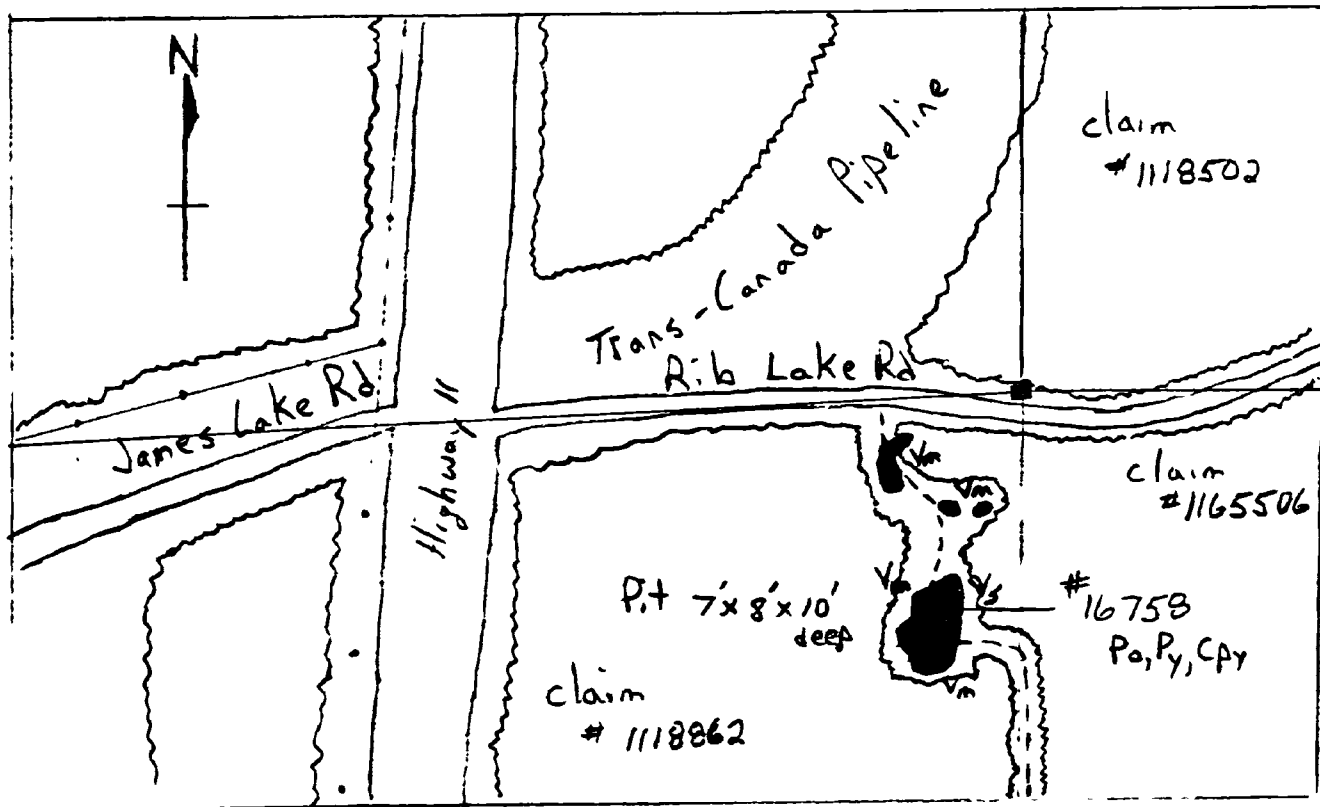
Gino Chitaroni

U. Chitaroni





# Granite - James Lake Base-Metal Property



"Rib Lake Road  
Copper Showing"  
North Strip Zone #1

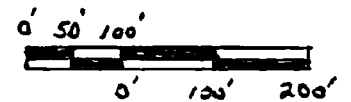
## Legend

### Geology

- Vs Metavolcanic cherty sediments
- Vm Metavolcanic

### Symbols

- |                      |                   |
|----------------------|-------------------|
| ■ Pit                | ■ Claim Post      |
| ~ Tree Line          | Po Pyrrhotite     |
| == Road              | Py Pyrite         |
| ⊙ Muckpile           | Cpy Chalcopyrite  |
| — Powerline          | --- Skidder Trail |
| ○ Outcrop            | — Sulphide Zone   |
| ○ Sample Site (C.P.) |                   |



Scale: 1" = 200'

Dec. 30, 1993.

Best Township

Gino Chitaroni

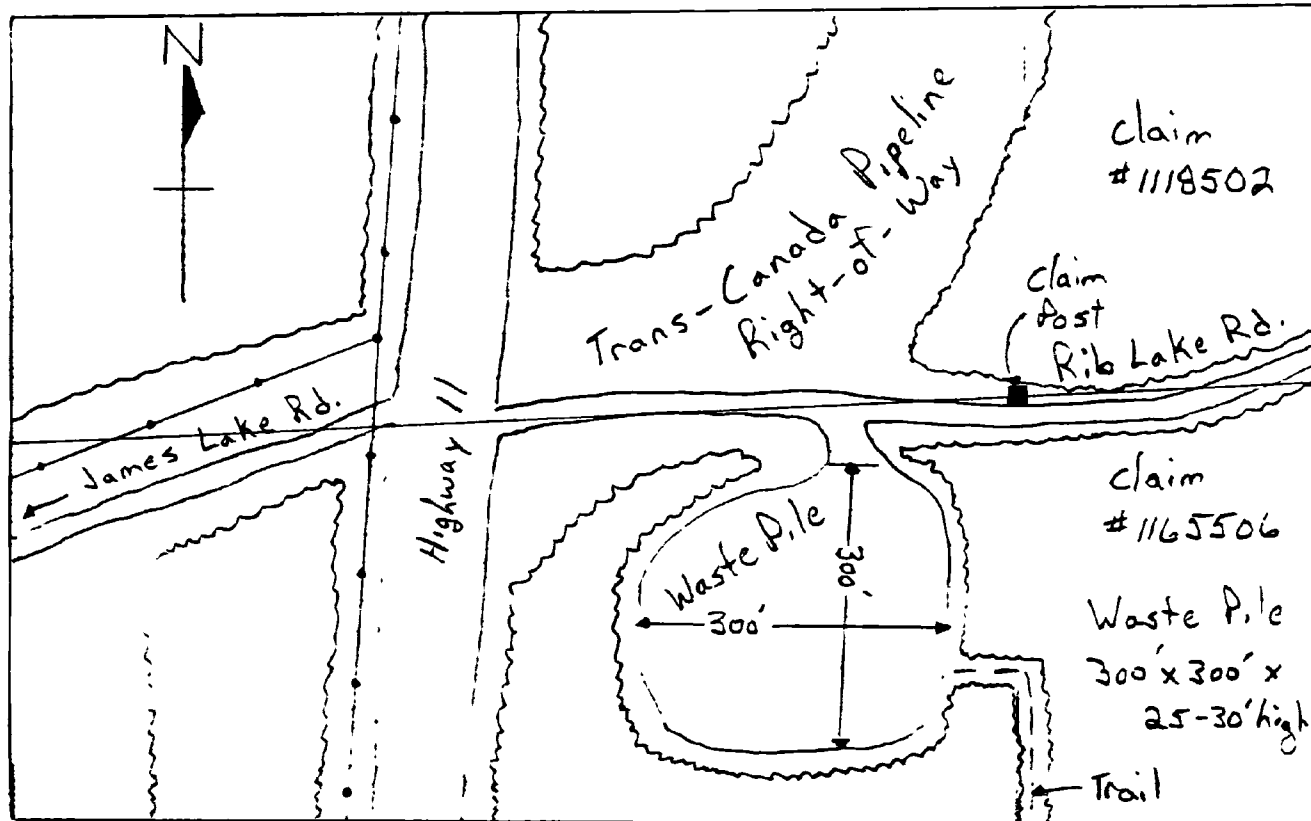
Geo. Chitaroni

310



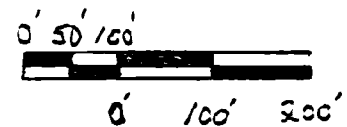
31M04NE0014 OP93-654 BEST

# Granite-James Lake Base-Metal Property



"Rib Lake Road  
Copper Occurrence"  
or  
"North Strip Zone #1"

- \* Highway Construction Waste Pile
  - Buried Copper Occurrence
  - Potential Road Side Ballast Material/Aggregate



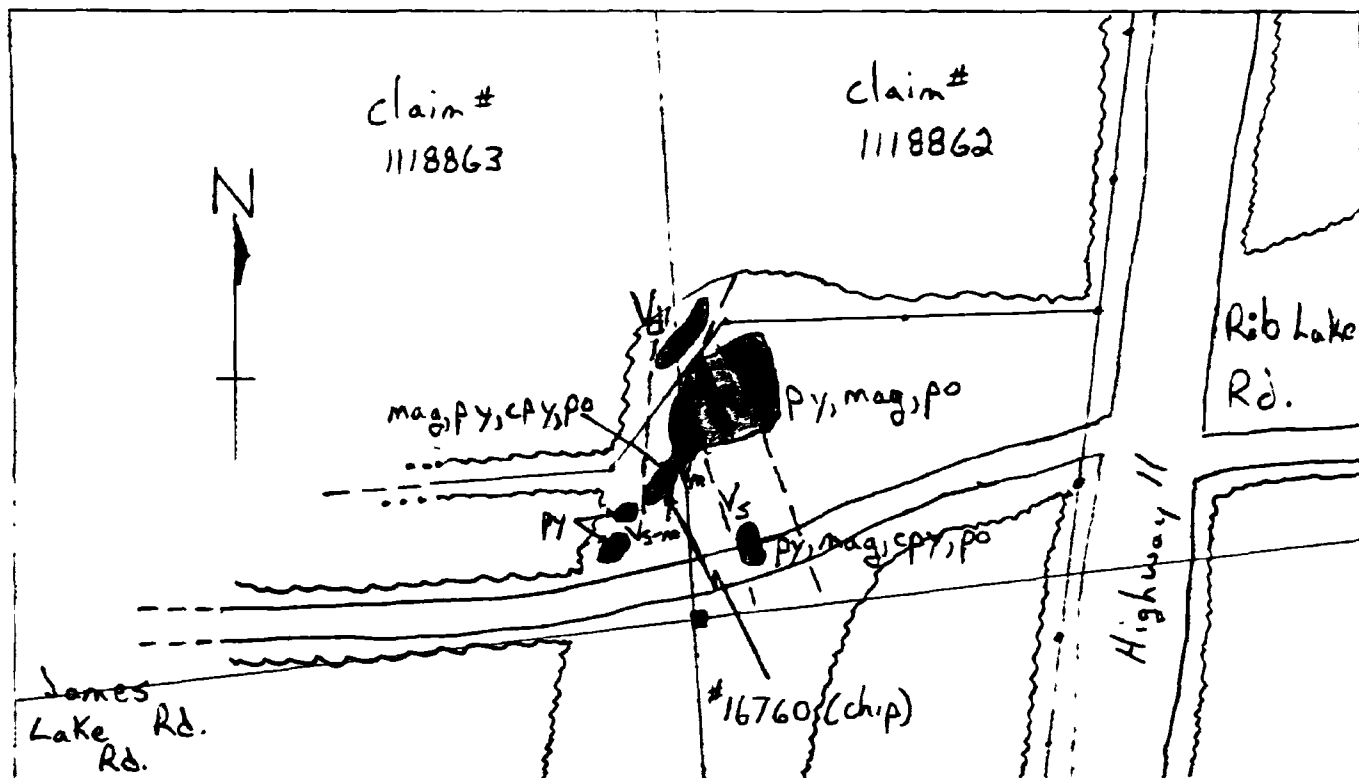
Scale: 1" = 200'

Dec. 30, 1993.

Best Township 1,  
Siro Crator: *[Signature]*



# Granite - James Lake Base-Metal Property



"Nremetz Copper Occurrence"

- Symbols
- claim Post
  - Powerline
  - == Road
  - ~ Tree Line
  - Outcrop
  - Contact
  - Assumed Contact

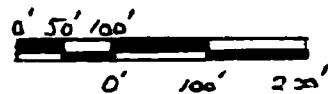
## Legend

### Geology

- Vd Metavolcanic diabasic flow/dike?
- Vs Metavolcanic graphitic sediment
- Vs-m Metavolcanic sediment - mafic transitional zone
- Vm Metavolcanic mafic flow

- #16760 Sample Site
- Mineralization
- mag Magnetite
- cpy Chalcopyrite
- py Pyrite
- po Pyrrhotite

Scale: 1" = 200'



Dec. 30, 1993.

Best Township

Gino Chitaroni

Jim Chitaroni