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THE GRANITE - JAMES LAKE PROPERTY

GEOLOGICAL SURVEY

by

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BEST TWP., TEMAGAMI, ONTARIO

May 30, 1995
Cobalt, Ontario

Gino Chitaroni
Geologist/Prospector

2. 16185

**GEOLOGY REPORT
JAMES LAKE PROPERTY
OF
GINO CHITARONI**

**BEST TOWNSHIP, DISTRICT OF NIPISSING,
ONTARIO
NTS 31 M 4**

**By: Douglas R. Robinson
Swastika, Ontario
July-December, 1994**

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TABLE OF CONTENTS

INTRODUCTION 1

PROPERTY LOCATION AND ACCESS 1

PREVIOUS EXPLORATION ACTIVITIES 2

GEOLOGICAL MAPPING AND SAMPLING PROCEDURES 2

GEOLOGY 4

 Table of Formations 4

 Mafic Volcanics 4

 Felsic Volcanics 5

 Sediments (Archean) 6

 Mafic and Ultramafic Intrusives 6

 Granite 7

 Diabase Dikes 8

ECONOMIC MINERALIZATION 8

 Cu-Zn Volcanogenic Massive Sulphides, Northland Pyrite Area 8

 Cu-Ni Sulphides in Mafic Volcanics 9

 Cu-Ni Volcanogenic Mineralization East of Highway 11 (Acana #1/3 Occurrences) 9

 Cu-Ni Volcanogenic Mineralization South of Granite Lake 10

 Mafic-Ultramafic Hosted Ni-Cu Deposits (Acana #2/4 Occurrences) 10

 Pt Group Metals-Au-Cu (Acana #5 Occurrence) 11

 Mo Mineralization 11

 High Purity Silica 12

 Calcite Silver Cobalt Arsenide Veins 13

RECOMMENDATIONS 14

 Extended grid 14

 Magnetic Surveys 15

 Geological Mapping and Geochemical Sampling 16

 Diamond Drilling 17

 Cu-Zn Volcanogenic Massive Sulphides 17

 Candela Resistivity Anomalies North of Northland Pyrite Mine 18

 Disseminated Sulphides in Mafic Volcanics 18

 Cu-Ni Volcanogenic Mineralization East of Highway 11 18

 Cu-Ni Volcanogenic Mineralization South of Granite Lake 19

 Pt Group Metals-Au-Cu-Ni 19

 Mafic-Ultramafic hosted Ni-Cu Deposits 20

 Mo Mineralization 20

 High Purity Silica 21

REFERENCES 22

CERTIFICATE 23

INTRODUCTION

On July 17 to July 30, October 1, 2, 5, 12, 14, 16, 21, 26, 29, 30, 31 and November 18 the author conducted geological mapping of 13 claims held by Gino Chitaroni and a neighbouring leased claim 3722 held by United Reef Limited (mapped with permission from the owner).

The mapping located and identified numerous old and new showings. Character samples of mineralization from the showings were collected and analyzed for significant metals. Whole rock samples were taken to identify felsic rocks that may host volcanogenic massive sulphide deposits.

PROPERTY LOCATION AND ACCESS

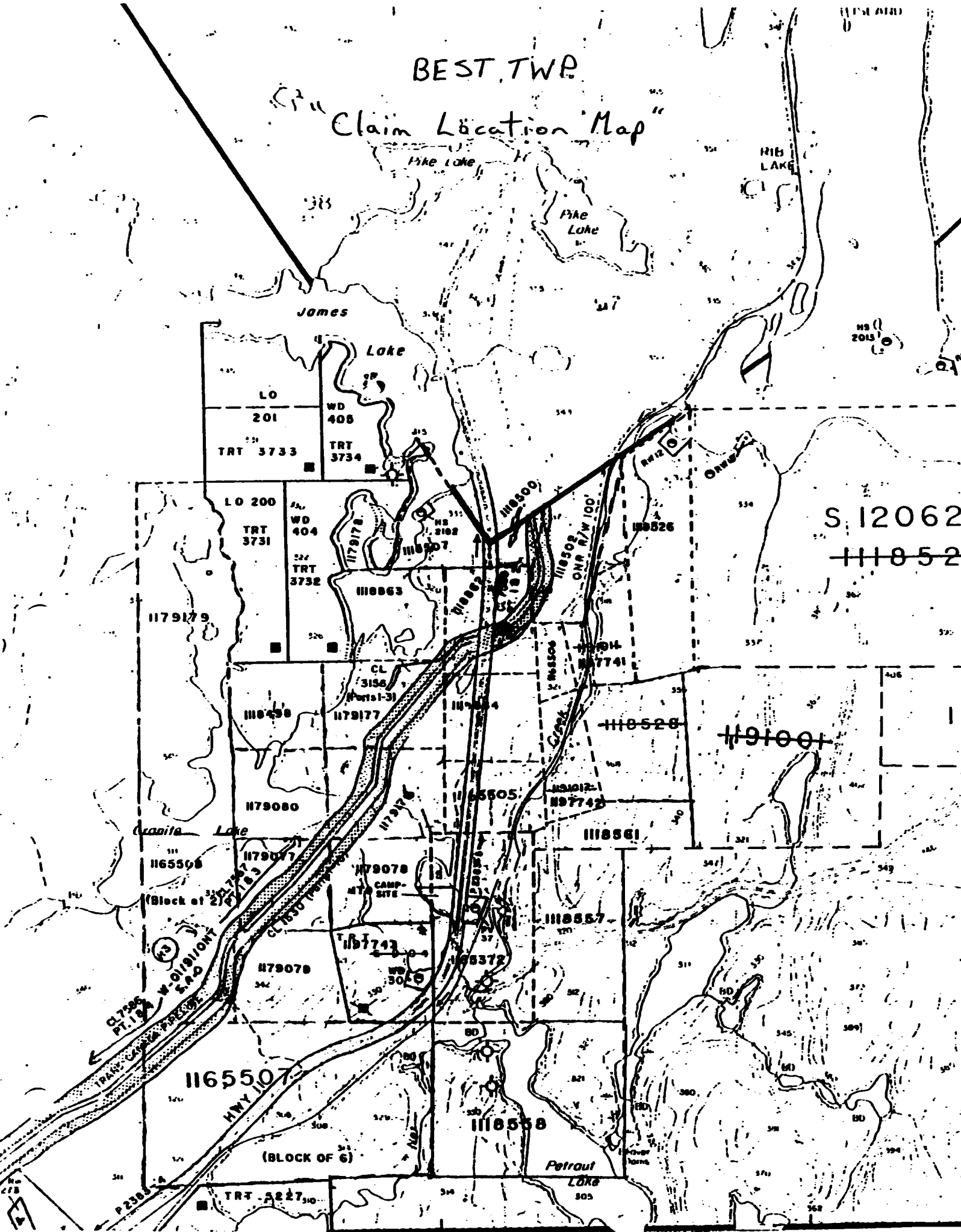
The property is located 115 km due north of North Bay and 15 km north by Highway 11 from Temagami. Highway 11 cuts north-south through the property. Additional access from Highway 11 is attained via:

- a. the Rib Lake Road cutting the northeast portion of the property.
- b. the James Lake Road cutting the northwest portion of the property.
- c. the Trans-Canada Pipeline that passes from the northeast to the southwest corner of the property.

Line 8+00 South is the only passable grid line crossing the creek and deep swamp between James Lake and Granite Lake.

BEST TWP

Claim Location Map



James Lake
LO 201
WD 408
TRT 3733
TRT 3734

LO 200
TRT 3731
WD 404
TRT 3732

1179179

CL 3156
Part 1-31

118658

1179177

1179080

Granite Lake

1165508

1179077

1179078

(Block of 2)

1179078

WD 3026

1165507

(Block of 6)

TRT 3227

Petraut Lake

118558

118561

118557

118572

118505

118512-1

1187742

118528

1191001

118526

118526

S. 12062

11852

NS 2015

238

P238

W-01810NT
SAD

CL 7395
PL 124

TRANS CANADA

HWY 107

CAMP SITE

WD 3026

1185743

TRT 3227

118507

118537

118558

TRT 3227

118200

118502

118502

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Township/Area: BEST (001820)

Claim Holder: BEECHAM ARTHUR WHITAKER (106450)

Total Claims: 3

Claim Number	Units	Due Date	Status	Substatus
S 1118525	15	95/MAR/24	Active	
S 1118526	03	95/AUG/06		
S 1118527	03	95/MAY/05		

Claim Holder: CHITARONI GINO PAUL (117874)

Total Claims: 28

Claim Number	Units	Due Date	Status	Substatus
S 1118465	02	96/MAR/08	Active	
S 1118498	01	00/JAN/23		
S 1118500	01	99/FEB/12		
S 1118502	01	99/JAN/23		
S 1118507	01	99/JAN/13		
S 1118557	02	96/FEB/08		
S 1118558	04			
S 1118561	01			
S 1118566	08	96/MAR/08		
S 1118862	01	00/JAN/13		
S 1118863	01			
S 1118864	01			
S 1165505	01	99/JAN/09		
S 1165506	01			
S 1165507	06			
S 1165508	02	99/FEB/10		
S 1179077	01	00/JAN/13		
S 1179078	01			
S 1179079	01	99/JAN/13		
S 1179080	01	00/JAN/13		
S 1179176	01			
S 1179177	01			
S 1179178	01			
S 1179179	04	98/APR/21		
S 1197741	01	96/JUL/05		
S 1197742	01			
S 1197743	01			
S 1198315	09	97/JAN/30		

Claim Holder: FALCONBRIDGE LIMITED (130679)

Total Claims: 1

Claim Number	Units	Due Date	Status	Substatus
S 1184128	16	96/NOV/15	Active	

PREVIOUS EXPLORATION ACTIVITIES

Small portions of Mr. Chitaroni's ground have been held and explored by numerous prospectors and companies. A history of numerous short diamond drill holes of variable quality, stripping, and trenching by previous holders was compiled by Mr. A. Beecham in his 1992 report titled "Compilation of Geology & Mineral Occurrences James Lake area". These activities established a wide distribution of sulphide showings hosting Cu, Ni, Co, Pt group metals, Mo and high purity silica. The exact locations of many of these showings were lost over time. Candela Development Co. conducted a resistivity survey (1952) that defines several targets northeast and east of the Northland Pyrite shaft. Candela also performed a SP survey (1951) that defined anomalies over ground now known to host prominent sulphide showings.

GEOLOGICAL MAPPING AND SAMPLING PROCEDURES

Mapping and hand stripping were conducted by pace and compass traversing from a metric grid having a 25 m station spacing on lines located at 100 m intervals. A 1:5000 scale base map prepared by Mr. Art Beecham was traced and used for the accompanying "Geology" and "Sample Location" maps. Selected areas having significant showings were also mapped at the scale 1:1000 assuming perfect grid (the grid was of high quality).

The following 13 contiguous claims in Best Township were mapped:

1118498
1118862-63-64
1165505
1165507-08
1179077-78-79
1179176-77
1179080

53 character samples were taken from the showings encountered and 13 whole rock analyses were performed. Swastika Laboratories analyzed the 53 character samples for various metals by AA and fire assay with AA finish. 13 whole rock samples submitted to Swastika Laboratories were analyzed by TSL/ASSAYERS Laboratories of

Mississauga, Ontario using lithium borate fusion I.C.A.P. Appendices provided by Swastika Laboratories describe the analytical procedures used.

The 53 character samples were collected and analyzed to determine the character of mineralization and establish the presence of potential economic metals. Where several types of mineralization occur in a showing, each style of mineralization was sampled separately. In general, two character samples were taken of each mineralization type from each major showing. Single samples were collected from the secondary showings.

Whole rock analyses were performed on the 13 rock samples collected to establish economic potential of the volcanogenic massive sulphide deposits.

The location of each sample was recorded in the tables of analyses included in this report and plotted on the 1:5000 scale Sample Location Map. Sample locations within areas of detailed mapping were plotted on the relevant 1:1000 geological maps.

The author cut 572 m of control lines in advance of detailed mapping of the Northland Pyrite Mine area (Map 1 and Map 2 at 1:1000).

In late 1994 extensive power stripping by backhoe excavator (760S-280E and between 1060S-250E and 1200S-200E) exposed 8 trenches having total surface area of 1570 square metres. This stripping was concentrated on the contact between metalliferous mafic volcanics and a sulphide bearing mafic intrusive. This area was mapped both previous to and after the stripping. The author spent two days hand cleaning and mapping these trenches.

GEOLOGY

Table of Formations

- 9 Diabase Dikes
- 6 Granite
- 5 Mafic and Ultramafic Intrusives
- 4 Sediments (Archean)
- 3 Felsic-intermediate Volcanics (Archean)
- 2 Mafic Volcanics (Archean)

Suffixes to codes of major rock types.

- a fine grained
- b medium grained
- c coarse grained
- d tuffs and agglomerates
- g dikes

The geology of the map area is dominated by mafic volcanic rocks of Archean age. Numerous disseminated to massive pyrite-pyrrhotite zones hosting chalcopyrite occur within mafic and felsic volcanics and associated interflow sediments and tuffs. West of James Lake, on claim 3732, a 65 metre wide felsic agglomerate hosts the Northland Pyrite deposit. This felsic horizon is bounded to the west by granite. Granite truncates the southern limit of mafic volcanics within the map area. A mafic intrusive west of the railway tracks hosts Cu-Ni mineralization along its western contact. A second mafic intrusive cutting granites and mafic volcanics of the southern and western portion of the map area hosts Pt-Pd-Au-Ni-Cu mineralization within pyritic zones. An east striking deformation zone at the south edge of the map area hosts a high purity silica deposit within granite.

Mafic Volcanics

Archean mafic volcanics consist of massive to pillowed basalts. Schistosity is strong to the west near the granite and decreases in intensity to the east. Southwest of James Lake, at 6+50S-4+55W, pillows are sheared giving length to width ratios exceeding 10:1. This shearing generated a strong laminated texture to much of the

volcanics west of the pipeline. North of Granite Lake primary textures and shear textures strike south to south-west. South of Granite Lake these textures strike to the south-east defining a late open fold. Tight small scale folds deforming the shear texture were observed. Chloritic alteration is locally prominent and is strongest to the west and near the intersection of Highway 11 and the James Lake Road.

Two samples (770 and 772) of light coloured mafic volcanics from west of the pipeline were analyzed. High CaO and Al₂O₃ and low Na₂O indicate their light color is caused by a high concentration of CaO plagioclase. The low SiO₂ values are consistent with basaltic compositions. The low sodium values indicate these volcanics may be within the alteration zone associated with volcanogenic massive sulphide deposit.

Felsic Volcanics

Felsic volcanics were mapped;

1. on claims 3732 and 1179177 southwest to northwest of James Lake (Northland Pyrite Deposit) and
2. on claims 1118864 and 1165505 east of Highway 11, north of Roosevelt Road and south of Rib Lake Road.

The felsic rocks hosting the Northland Pyrite deposit (past producer of sulphur) west of James Lake consist of a 65 metre wide, northeast trending andesite-dacite-rhyolite agglomerate unit located between sheared and chloritic basaltic volcanics to the east and granite to the west. Conformable coarse grained felsic dikes within this rhyolite appear to be of subvolcanic origin (personal communication Jim Ireland, Resident Geologist). Two of these felsic dikes were observed within mafic volcanics at 100S-380W (sample 786, high Na₂O) and 440S-395W.

Whole rock analysis indicate these felsic rocks are calc-alkaline, low Na andesite-dacite-rhyolites. Analysis range from 62.73% SiO₂ to 83.12% SiO₂ with Na₂O values below 0.57% Na₂O (One sample had 1.29% Na₂O).

West of Highway 11 light coloured intermediate to felsic rocks with moderately high SiO₂ and high Na₂O values were encountered (#786-66.54%, #6107-61.52%, #6113-76.65% and #6121-57.97% SiO₂). Stratiform and disseminated sulphides occur within exhalitive interflow sediments. Disseminated sulphides and local sulphide masses also exist within these felsic to mafic volcanics west of Highway 11.

Sediments (Archean)

Two cherty interflow sediments hosting exhalitive massive pyrrhotite-chalcopyrite mineralization were exposed by 1994 trenching at 759S-284E and 775S-267E. These exhalites could mark a stratigraphic horizon that could host massive sulphide deposits down dip or along strike.

Mafic and Ultramafic Intrusives

Two metalliferous mafic intrusives, called the east and west mafic intrusives occur on the grid.

The east mafic intrusive (northeast trend) along the eastern edge of the claim group appears to be differentiated. This unit ranges from a relatively fine gabbro to localized coarse grained dark green amphibolite to an extensive coarse-grained feldspathic unit that looks like white granite until broken. Both the dark green amphibolite and pale feldspathic units appear to crosscut the finer grained gabbro. High Cu-Ni and significant Co values in massive to disseminated pyrrhotite near the west contact are comparable to mafic-ultramafic hosted Ni-Cu deposits. These sulphides appear to be associated with the coarse amphibolite phase and possibly a fine grained white weathering phase (Sample 6112-52.90% SiO₂) of the intrusive. In the contact zone exposed in late 1994 stripping, it is uncertain what proportion of the sulphide mineralization is hosted in sulphide rich Archean volcanics and the mafic intrusive.

The west mafic intrusive (Map 3, 1:1000) crosscuts both granite and mafic volcanics between Granite Lake and Highway 11 to the south. At 1950S-505W Pt-Pd-Au-Cu mineralization is associated with pyrite-chalcopyrite mineralization within an xenolithic phase of the mafic intrusive. The xenoliths appear to be of ultramafic mantle origin (personal communication, Jim Ireland, Resident Geologist). This gabbroic intrusive may have been rotated to a steeply dipping orientation with its original bottom being the east contact (Personal communication Jim Ireland, Resident Geologist). In the north edge of the cut the gabbroic intrusive has an irregular east-west chilled contact against the granite. The chilled irregular contact indicates the 10 metre jog in the intrusive is a primary feature of emplacement.

260 metres to the south, similar Pt-Pd bearing pyrite mineralization occurs in outcrops north of Highway 11. In contrast, 500 metres to the north, two narrow pyrrhotite-rich zones in this intrusive have no detectable Pt-Pd values. To the north a unit mapped as the continuation of this intrusive is twice as thick and has a distinctly different appearance, being in part coarser grained and more feldspathic. This portion of the dike has an appearance similar to portions of the mafic volcanics mapped as 2c. Previous mapping north of the pipeline located the mafic intrusive 50 metres to the west of my map location. I did not map the area between the pipeline and Granite Lake. A cursory traverse southwest from Northland Pyrite Mine crossed a low relief mafic outcrop within the granite. This outcrop may be the extension of the Pt-Pd bearing west intrusive.

The west mafic intrusive (unit 5) is younger than the granite (unit 6) it cuts, however the unit designation has not been changed as it would involve changing the maps.

Granite

Granite (probably of Algomian age, Personal communication, Jim Ireland, Resident Geologist) forms the west and south portions of the map area. A broad east-west trending positive magnetic

anomaly centred 250 metres south of the southern limit of exposed Archean volcanics is entirely within the southern granite. The limits of this magnetic anomaly are coincident with the limits of the known Pt-Pd values within the mafic intrusive near 5+00 West Base Line. This anomaly indicates either an intrusive formation cutting the granite or the presence of Archean volcanics some hundreds of metres below surface.

Diabase Dikes

Nipissing diabase dikes occur near the map area along Highway 11 south of the Granite Lake bridge and along the railway tracks east of the map area.

ECONOMIC MINERALIZATION

Cu-Zn Volcanogenic Massive Sulphides, Northland Pyrite Area

Three zones of massive sulphides outcrop near the abandoned shaft of the Northland Pyrite Mine. A zone 50-90 metres south of the shaft is exposed in flooded surface workings. A second massive sulphide zone 30 m to the west is exposed 20 metres west of the shaft. The third massive sulphide zone is exposed in a trench 80 metres to the west of the shaft. A fourth sulphide zone under James Lake and east of the first zone was intersected by old drilling.

Massive pyrite barren of copper mineralization was mined from the workings 50 metres south of the shaft. To the west of this barren massive pyrite zone prominent chalcopyrite is hosted in pyrrhotite (stringers?). This combination of massive pyrite and stringer pyrrhotite-chalcopyrite within low Na₂O rhyolites fits well into the volcanogenic sulphide model and may represent satellite deposits peripheral to large deposits along strike or down dip.

Fine pyrite and pyrrhotite are disseminated throughout the felsic volcanics, particularly in outcrops north of line 6+00 South. These disseminated sulphides did not respond to the magnetic survey conducted on line 6+00 South.

Cu-Ni Sulphides in Mafic Volcanics

Disseminated and blebby pyrrhotite and pyrite with significant Cu and Ni values are a common minor constituent of the mafic volcanics. Coarse hornblende alteration is commonly associated with and frequently hosts this sulphide mineralization. Roadcuts along Highway 11b between 5+00S and 13+00S are typical of these sulphide concentrations. Two broad zones of prominent sulphide mineralization, one located east of Highway 11 and the other located south of Granite Lake are described below.

These sulphide showings appear to be within the alteration envelope related to volcanogenic massive sulphide deposits. High Ni and elevated Co values indicate that local mafic-ultramafic intrusives may have contributed at least part of the contained metals to the sulphide zones. Two of these intrusives are described in this report. Also some of the coarser units mapped as mafic flows (2c) could be mafic intrusives that have contributed this Ni and Co to the nickeliferous sulphide showings. Three possible intrusives at 5+00S-1+50W, 7+50S-5+70W and 10+75S-1+25E have textures and mineralogy similar to the differentiated portions of the identified mafic intrusives.

Cu-Ni Volcanogenic Mineralization East of Highway 11 (Acana #1/3 Occurrences)

A broad zone of sulphide showings exist in mafic to intermediate volcanics east of Highway 11 extend from 5+00S to 12+25S between 2+00E and 3+50E. These showings range from disseminated sulphides to pods of massive chalcopyrite bearing pyrrhotite. In part these showings are related to light coloured rocks having both high

SiO₂ and Na₂O values (#786-66.54%, #6107-61.52%, #6113-76.65% and #6121-57.97% SiO₂). Typically these sulphide zones have high Cu and Ni values and significant Co values. The Ni and Co values seem to be hosted in the pyrrhotite. Cu rich, pyrrhotite poor samples 6114 and 6120 lack the Ni and Co values typical of the pyrrhotite zones. These sulphides and exhalites may mark a stratigraphic horizon that could host massive sulphide deposits down dip or along strike.

Cu-Ni Volcanogenic Mineralization South of Granite Lake

A disseminated to massive sulphide zone (along the east edge of a linear swamp) extends 55 metres southeast from a pit located at 17+27S 3+73W. This zone appears to be conformable to its mafic volcanic host rock. Like other sulphide showings within the mafic volcanics it consists of pyrrhotite hosting chalcopyrite. Pd values are elevated relative to other pyrrhotite showings on the grid. This showing and a parallel felsic horizon 110 metres to the north may be at the same stratigraphic horizon as the Northland Pyrite Deposit.

Mafic-Ultramafic Hosted Ni-Cu Deposits (Acana #2/4 Occurrences)

A mafic intrusive (northeast trend) along the eastern edge of the claim group appears to be a differentiated sill ranging from relatively fine grained gabbro, to a localized coarse grained dark green amphibolite, and to an extensive coarse grained feldspathic unit mapped as anorthositic. Both the dark green amphibolite and pale feldspathic units appear to crosscut the finer grained gabbro. Ni-Cu rich disseminated to massive pyrrhotite mineralization is associated with the contact between the mafic intrusive with mafic volcanics. Confusion exists as to the location of the sulphides as both the intrusive and the volcanics host similar sulphides having high Cu and Ni and significant Co values. Also fine grained phases of the intrusive and medium to coarse volcanics are similar in appearance. Sulphides appear to be associated with the coarse

amphibolite phase and possibly a fine grained white weathering phase (Sample 6112-52.90% SiO₂) of the intrusive. In the contact zone exposed in the late 1994 stripping, it is uncertain if the sulphide mineralization is related to the sulphide rich Archean volcanics or to the mafic intrusive.

Pt Group Metals-Au-Cu
(Acana #5 Occurrence)

Work of unknown age moved approximately 250 tonnes of Pt-Pd-Au-Cu mineralization from the west mafic intrusive at 1950S-505W. The muck was blasted from the west side of a hill and stockpiled in a flat area 60 metres to the northwest. Pt-Pd-Au-Cu mineralization is associated with a pyrite rich xenolithic phase of the intrusive. Pyrite and chalcopyrite blebs with minor calcite and a massive Py-Cp lens (Az 130°) are the only sulphides observed. The zone ranged from 0.042 oz/t Pt+Pd+Au in 2% Py-Cp to 0.415 oz/t Pt+Pd+Au in massive Py-Cp. No pyrrhotite is evident in the showing. 260 metres to the south similar Pt-Pd bearing pyrite mineralization occurs in outcrop along the north edge of Highway 11. In contrast, 500 metres to the north, two narrow pyrrhotite rich zones (16003 + 16004) in this intrusive have no detectable Pt-Pd values.

The observed Pt-Pd bearing pyrite zones are associated with the portion of this intrusive that cuts the granite within a broad east trending positive magnetic anomaly that appears to have a relatively deep source. The source of this anomaly is unknown; however it could be mafic rocks beneath or cutting the granite at depth.

Anomalous Pd-Pt values at 1725S-373W and 1740S-345W (0.011 oz Pd/ton-0.001 oz Pt/ton) appear to be spatially related to the above showings.

Mo Mineralization

The Archean volcanics directly north of the granites south of Granite Lake host four styles of molybdenite-powellite mineralization.

1. pegmatite dike (sample 6124)
2. quartz-Molybdenite veins (sample 6126)
3. seams of pure sooty molybdenite
- 4 hornblende-molybdenite mineralization

Coarse crystalline molybdenite was observed in a single narrow pegmatite dike (sample 6124) at 1360S-585W on the pipeline. Numerous pieces of white-grey quartz veins mineralized with coarse crystalline molybdenite were observed in the pipeline muck. A quartz-molybdenite vein in outcrop is located at 16+00S-715W. Many pieces of basalt with 0.5-2 mm seams of pure sooty grey molybdenite were also observed in the pipeline muck. A single large piece of muck having coarse hornblende with minor coarse molybdenite crystals was observed on the west edge of the pipeline right of way.

Powellite $[Ca(Mo,W)O_4]$ has been previously identified in the Mo showings in this area. The author did not use UV light to identify this nondescript mineral.

High Purity Silica

A high purity quartz deposit occurs as silica replacement of granite in an east-west deformation zone at 23+00S-5+00W. This silica zone has been mapped in detail (Map 4, 1:1000) for 445 metres of strike length between Highway 11 and the ONR Railway. The areas to the east and west were not mapped and it is assumed the silica zone extends in both directions. The high purity silica portion of the deposit is approximately 40 metres wide and is bounded by a zone of partial silica flooding defined by numerous quartz veins and partial replacement of the granite by quartz and albite. Several attractive pink coloured zones are unlikely to affect the purity of this deposit.

A second parallel silica flooded zone is located directly north of Highway 11. It is not possible to adequately map this zone due to glacial sediment overburden. The exposed portion of the north zone is of lower quality than the south zone.

An old Au showing located at 23+32S-4+52W is situated within the Pt-Pd-Au bearing mafic dike where it cuts the silica zone.

Calcite Silver Cobalt Arsenide Veins

Two calcite veins of significance were identified during mapping. A small calcite vein with prominent grey arsenides was sampled at 1055S-095E (#8445). This vein appears to be a minor splay vein striking approx 300° from an east trending fault observed in a roadcut along Highway 11. The low Co and Ag values and weakness of the vein indicate it is unlikely this structure is ore bearing; however the presence of arsenide mineralization indicates the vein may be within the envelope of mineralization associated with Cobalt-Gowganda style Co-Ag vein deposits.

A large proportion of the blast muck located between 7+00S and 8+50S on the pipeline consists of 1 m thick pieces of calcite vein. The high volume of vein material, the lateral dispersion and the large size of the vein fragments indicates a major calcite vein structure strikes sub-parallel to the pipeline. Minor chalcopyrite and galena were noted. The proximity of arsenides in the calcite vein 400 m to the southeast indicates this vein has the potential to host Cobalt-Gowganda style Co-Ag mineralization. At Cobalt and Gowganda grades within 1.0-100.0 cm commonly average 3000-4000 oz Ag/Ton and 10% Co over vein width.

RECOMMENDATIONS

Extended grid

Grid should be extended to increase line density for detailed mapping and additional magnetic coverage. The following recommended lines will provide coverage of the priority target areas:

Line 0+50S	0+00W	to	7+00W
Line 1+00S	0+00W	to	7+00W
Line 1+50S	0+00W	to	7+00W
Line 2+00S	0+00W	to	7+00W
Line 2+50S	0+00W	to	7+00W
Line 3+00S	0+00W	to	7+00W
Line 3+50S	0+00W	to	7+00W
Line 4+00S	0+00W	to	7+00W
Line 4+50S	0+00W	to	7+00W
Line 5+00S	0+00W	to	7+00W
Line 5+50S	0+00W	to	7+50W
Line 6+50S	0+00W	to	7+50W
Line 7+50S	2+50W	to	7+50W
Line 8+50S	2+50W	to	7+50W
Line 9+50S	2+50W	to	7+50W
Line 10+50S	0+00W	to	8+00W
Line 14+00S	0+40W	to	1+50W
Line 15+00S	0+40W	to	1+50W
Line 15+50S	0+40W	to	7+00W
Line 16+00S	0+40W	to	1+00W
Line 16+50S	0+40W	to	8+00W
Line 17+50S	0+40W	to	9+00W
Line 18+00S	0+40W	to	7+00W
Line 18+50S	5+00W	to	5+75W
Line 21+00S	4+50W	to	5+00W
Line 22+00S	4+20W	to	5+00W

Line 3+00S extension to east boundary
Line 4+00S extension to east boundary
Line 5+00S extension to east boundary
Line 6+00S extension to east boundary
Line 6+50S 1+50E to 5+00E (east boundary)
Line 7+50S 1+50E to 3+50E (east boundary)
Line 8+50S 1+50E to 3+50E (east boundary)
Line 9+50S 1+00E to 3+50E (east boundary)

Line 10+50S 1+00E to 3+50E (east boundary)
Line 11+50S 1+00E to 3+50E (east boundary)
Line 12+50S 1+00E to 3+50E (east boundary)

Line 6+00W 18+00S to 23+00S
Line 7+00W 18+00S to 23+00S
Line 8+00W 18+00S to 23+00S
Line 9+00W 18+00S to 23+00S and

Lines discussed under recommendations for the silica zone.

These lines will cover the priority areas.

Magnetic Surveys

The magnetic fabric of the grid consists of three parallel, north striking trends of discontinuous magnetic anomalies that appear to trace the following stratigraphic horizons:

1. 6+00S-6+00W to 17+00S-0+50E (also includes 1+00N-4+25E)
2. 1+00S-1+25W to 13+00S-4+00E
3. 1+00N-4+15E to 13+00S-2+15E

These magnetic trends appear to represent discontinuous pyrrhotite and/or magnetite mineralization. High amplitude-short wavelength responses as encountered by Mr. D. Laronde (1993) are expected from the narrow near surface sulphide and magnetite zones observed during mapping. Some known pyrite zones have no apparent magnetic signature. Intrusives and deep overburden can account for gaps in the magnetic signature.

The magnetic trend "1" from 6+00S-6+00W to 17+00S-0+50E appears to mark the stratigraphic horizon of the Northland Pyrite Deposit. Trend "2" from 1+00S-1+25W to 13+00S-4+00E was not explained by mapping but also appears to mark a stratigraphic horizon. Trend "3" from 1+00N-4+15E to 13+00S-2+15E marks a series of pyrrhotite-chalcopyrite-pyrite occurrences in part associated with moderately felsic rocks.

A broad positive magnetic anomaly between 19+75S and 22+25S over granite should be defined by a closely spaced magnetic survey points from proposed north-south lines spaced at 100 metre centres (prior to line cutting this area should be mapped to determine if an alternate explanation exists). These north south lines would confirm the existence of this anomaly and establish its character. This anomaly indicates the potential for a mafic intrusive within the granite that could be associated with the Pt-Pd-Au-Ni-Co mineralization flanking the near base line 5+00 West. The anomaly could also be explained by Archean mafic volcanics +/- sulphides beneath the granite. In either case this anomaly should be defined.

The grid should be surveyed by a high density magnetic survey with readings spaced at 5 metre centres or by WALKMAG (Sintrex ENVI-MAG instrument) which can give readings at approximately 1 metre intervals as the operator walks slowly down the line. This would aid in locating and projecting the traces of sulphide horizons. This is particularly important for magnetic trends "1" and "3". At minimal additional effort and equipment costs, a gradiometer component would aid significantly the interpretation of anomaly depth and width.

Geological Mapping and Geochemical Sampling

The grid should be mapped at scale 1:1000 with emphasis on location and orientation of chloritic alteration, sulphide showings and explanations for anomalies encountered in detailed magnetic survey. Whole rock samples should be collected at 100 m intervals to locate and define the alteration zone associated with the Northland Pyrite deposit and any other alteration zones that may exist on the

property. Selected samples should be analyzed for high field strength elements.

Mapping at a scale less detailed than 1:2000 would not be justified except to extend the limits of 1994 mapping.

Diamond Drilling

Three diamond drill holes have been proposed.

1. 19+48S-5+14W Azimuth 099° dip 45° Length to granite contact (approx 20 metres).

Target: crosscut section of Pt-Pd-Au-Ni mineralization.

2. 01+92S-4+75W Azimuth 130° dip 45° Length to east contact of sulphide zone (projected length 45 metres) [collar picket 16 metres north of road]

If Hole "2" cannot be drilled hole "3" is a viable alternative.

3. 02+10S-4+76W Azimuth 108° dip 45° Length to east contact of sulphide zone (projected length 40 metres) [collar picket located on north edge of road].

Hole "2" is preferred to hole "3" as this area is known to host prominent chalcopyrite mineralization that was avoided in mining the massive sulphide deposit. This hole could hit mine workings, however, only the massive pyrite portion of the deposit will be missed. Hole "3" has a better chance of crossing the entire zone, however it is not known if it will cross the chalcopyrite zone.

Cu-Zn Volcanogenic Massive Sulphides

Exploration for volcanogenic massive sulphide deposits should concentrate on detailed mapping and geochemistry previously mentioned. Detailed magnetic surveys of the felsic horizon hosting the Northland Pyrite deposit would probably detect pyrrhotite zones that could host or be associated with ore, however negative results should not disqualify an area from exploration as

pyrite, sphalerite and chalcopyrite are not magnetic.

Candela Resistivity Anomalies North of Northland Pyrite Mine

During 1952 Candela Development Co. established the presence of two prominent resistivity lows at 350N-030W at the Gilles Limit and Best township lines and at 0+00N-2+00W along the west shore of the island. These anomalies could be tested by a gravity survey and/or a 300 m cable MaxMin survey to define drill targets.

Disseminated Sulphides in Mafic Volcanics

The locations of disseminated and blebby pyrrhotite and pyrite with significant Cu and Ni values should be mapped during detailed mapping of the grid. The best showings, and magnetic responses under shallow overburden should be stripped manually or mechanically.

Cu-Ni Volcanogenic Mineralization East of Highway 11

Additional detailed mapping and a detailed magnetometer survey of this area would have a high probability of locating power stripping sites. The area north of Rib Lake road should be mapped with felsic volcanics as the target. Na20 values should be monitored as detailed mapping progress to the north part of the claims north of Rib Lake road.

Cu-Ni Volcanogenic Mineralization South of Granite Lake

The siliceous alteration and magnetic anomalies require detailed mapping and magnetometer surveys to define the surface traces of mineralization. A gravity survey of the line(s) having the best potential and a 300 metre cable MaxMin survey of line 17+00 South and extended line 18+00 South have potential of detecting a volcanogenic massive sulphide target.

Pt Group Metals-Au-Cu-Ni

The entire length of the host intrusive should be mapped in detail for the full length on the property. Also, whole rock samples of various phases should be analyzed to determine if the dike has a geochemical signature to distinguish it from mafic volcanics.

The following geophysical surveys are preferred means of testing the west mafic intrusive for Pt-Pd-Au bearing pyrite-chalcopyrite mineralization.

1. magnetic-gradiometer survey by Sintrex ENVIMAG to detect potential changes in vertical gradient caused by different orientations of the magnetic fields of the mafic intrusive relative to the host granite and Archean volcanics.
Note! The mafic intrusive and granite appear to have equivalent total field strengths thus total field magnetometer alone would be less likely to detect the contacts between the two rock types.
2. An IP survey run down the axis of the mafic intrusive could directly detect the disseminated pyrite-chalcopyrite. This atypical orientation has several benefits.
 - a. This orientation would test the full length of the intrusive rather than just selected points of crossing of grid lines.
 - b. This would respond to lower concentrations of sulphides (assuming long axis of mineralization parallel to the intrusive).

Note! Survey lines running perpendicular to mineralized portions of the intrusive would give conventional data, however, this is not necessary.

Note! SP values are measured in the IP process and these should be requested.

3. If an IP survey is not done, a SP survey should be run down the axis of the intrusive in the same manner, to detect areas of sulphide weathering. Calcite associated within the Pt-Pd mineralization may buffer sulphide oxidation and render the target mineralization non detectable by SP methods.

Note! Candela SP surveys located the surface traces of sulphide mineralization.

IP and SP surveys require detailed mapping prior to surveying and a line cut down the axis of the intrusive. If the intrusive is not straight, the line for IP should approximate the average position of the intrusive. If the line is locally offset from the intrusive the survey is still valid as IP detects sulphides to the side of the line (some sensitivity will be lost if the offset distance is large). If only SP is used, the line can have modest jogs to maintain its position along the axis of the intrusive because pot separation does not influence the values.

Mafic-Ultramafic hosted Ni-Cu Deposits

The area stripped during the fall of 1994 should be further cleaned with a muck scoop, broom swept and rain washed. The trenches and the mafic intrusive then should be mapped to greater detail to establish the interrelationship of the various phases to sulphide mineralization. Detailed magnetic survey should be done on the recommended expanded grid to define the surface traces of sulphide mineralization to generate stripping targets.

Mo Mineralization

Any exploration work done on the property should be at least casually evaluated for possible molybdenum and tungsten mineralization. A UV light should be passed over core to identify

any powellite or scheelite present.

High Purity Silica

The silica deposit is located in rough topography that makes an extension of the grid necessary if reserves are to be calculated. The high relief makes the deposit desirable as a large tonnage exists above the local relief. Base Line 5+00 West crosses the deposit at the near the highest and steepest topography of the deposit. The following grid expansion will utilize the flattest possible ground to establish positional control of the limits of the potential ore zone:

1. Line 22+50 South from 2+75W to 6+25 west.
2. Lines 4+00 West from 22+50S to 23+00S.
3. Line 6+25 West from 22+50S to 23+40S and
4. Line 23+40 South from 5+00W to 6+25W.

The grade and quality of the silica should be established by sampling 3 to 6 lines systematically depending on the degree of reliability required. The higher the purity dictated the greater the sample density required. For the purpose of establishing the potential grade and tonnage three lines (4+30W, 5+00W and 5+62W) sampled at 5 metre intervals will define the probable grade and character of the ore most readily available. Sample variability and consumer requirements ultimately dictate the style of sampling. If additional sampling is required lines 2+85W, 3+62W, 5+40W would provide excellent coverage. A bulk sample should be preceded by sampling; however if sampling is not viable, the outcrop at 22+80S-4+35W is a good choice as it is easily accessible. The extreme north face of the quartz ridge should be avoided during bulk sampling as a thin skin of less altered material is locally present.

REFERENCES

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Thomson, R., 1968

Geology Adjacent to Highway 11 in Best Township and the south Part of Gillies Limit Township, Districts of Timiskaming and Nipissing, Ontario Department of Mines Geological Branch, Open file Report No. 5016.

CERTIFICATE

I, Douglas Robinson, of the town of Swastika, in the Province of Ontario, hereby certify:

1. That I am a registered professional Engineer of Ontario engaged in my profession for approximately 19 years;
2. That I am a graduate of Queen's University in Kingston Ontario and Northern college, School of Mines in Haileybury, Ontario;
3. That I personally conducted mapping and hand stripping activities as reported in this report;
4. That my knowledge of the property was acquired by field mapping and by a study of publications and MNDm assessment files made available to me by the claim holder.

Douglas Robinson

Douglas Robinson, P. Eng.



**WHOLE ROCK ANALYSIS
JAMES LAKE GRID
BEST TOWNSHIP
SAMPLES COLLECTED 1994**

SAMPLE #	756	757	760	764	765	766	770
SiO2 %	67.07	83.12	66.45	66.13	66.70	62.73	47.82
Al2O3 %	13.74	8.96	15.70	15.61	16.58	15.04	20.75
Fe2O3 %	6.30	2.97	5.05	5.41	5.75	8.44	10.76
CaO %	3.88	1.23	6.16	5.64	3.04	5.73	16.26
MgO %	1.81	0.58	1.29	1.32	1.25	1.39	1.44
NaO %	0.51	0.34	1.19	0.47	0.57	0.57	0.51
K2O %	2.78	2.04	2.04	2.64	3.54	1.90	0.58
TiO2 %	0.49	0.17	0.56	0.47	0.49	0.34	1.18
MnO %	0.11	0.10	0.11	0.18	0.14	0.28	0.22
P2O5 %	0.18	0.06	0.22	0.16	0.16	0.12	0.10
LOI %	3.73	1.43	2.09	2.82	2.17	3.65	0.75
TOTAL	100.60	100.98	100.88	100.87	100.41	100.21	100.36

ppm

Ba	320	280	670	540	640	500	120
Sr	170	110	270	240	190	270	350
Zr	140	140	170	150	140	120	50
Y	18	24	18	14	14	10	20
Sc	12	4	12	11	11	8	38
Nb	<30	<30	<30	<30	<30	<30	<30
Be	<1	<1	1	1	1	1	1
Ni	15	40	25	20	45	25	60
Cr	750	1485	1320	905	1150	1510	725
Cu	10	20	5	25	20	<5	120
V	100	35	120	95	90	80	375
Co	<5	15	35	5	10	35	65
Zn	150	45	145	85	85	60	30
	190N	230N	120S	199S	207S	431S	500S
	350W	305W	448W	445W	460W	450W	090W

Northland Pyrite Mine Area

756 & 757 Felsic rocks on north shore of James Lake

760, 764 & 465 Felsic rocks at mine site.

766 Felsic rock south of mine site

Niemetz Copper Occurrence Area

770 Pale coloured (mafic tuff?) west of Niemetz Occurrence

REPORT No.: M370/
 Page No.: 1 of 1
 File No.: M0048
 Date: 200-04-1994

I.C.A.P. TOTAL OXIDE ANALYSIS

Lithium Metaborate Fluxes

4W-1613-QM1

SAMPLE #	SiO2		Al2O3		Fe2O3		CaO		MgO		Na2O		K2O		TiO2		PbO		ZnO		Sr		Ba		Mn		Co		Ni		Cu		Zn		Pb		LOT TOTAL		
	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%				
756	57.07	13.74	6.30	3.86	1.22	0.51	2.76	0.45	0.15	0.18	3.24	170	140	18	11	10	100	10	100	15	740	25	1300	3-73100.00	15	130	10	100	15	130	10	100	15	130	10	100	15	130	3-73100.00
757	53.17	6.94	2.97	1.23	0.58	0.24	2.04	0.17	0.10	0.06	2.62	110	140	24	14	20	35	20	35	40	1400	25	1300	1-43100.98	20	35	20	35	20	35	20	35	20	35	20	35	20	35	1-43100.98
760	64.88	15.70	5.04	6.15	1.24	1.19	2.04	0.54	0.11	0.22	2.70	270	170	18	11	10	100	10	100	15	740	25	1300	2-09100.00	5	120	5	120	5	120	5	120	5	120	5	120	2-09100.00		
764	66.13	19.61	5.43	5.64	1.32	0.07	3.14	0.47	0.14	0.14	3.40	240	180	14	11	10	100	10	100	15	740	25	1300	2-82100.07	25	95	25	95	25	95	25	95	25	95	25	95	2-82100.07		
768	44.76	14.58	5.75	3.04	1.23	0.57	3.14	0.09	0.14	0.16	2.60	190	180	14	11	10	100	10	100	15	740	25	1300	2-17100.95	20	90	20	90	20	90	20	90	20	90	20	90	2-17100.95		
764	62.73	15.04	5.46	8.75	1.39	0.57	1.90	0.34	0.20	0.13	3.00	270	120	10	9	10	100	10	100	15	740	25	1300	3-69100.23	15	100	15	100	15	100	15	100	15	100	15	100	3-69100.23		
770	67.82	20.75	10.78	14.26	1.44	0.81	0.96	1.19	0.22	0.10	1.20	390	160	20	10	20	35	20	35	40	1400	60	720	120	375	120	375	65	90	120	375	65	90	120	375	65	90	0-73100.36	

ANALYSED BY: *Raj Sood*

**WHOLE ROCK ANALYSIS
JAMES LAKE GRID
BEST TOWNSHIP
SAMPLES COLLECTED 1994**

SAMPLE	772	786	6107	6112	6113	6121
SiO2 %	51.24	66.54	61.52	52.90	76.65	57.97
Al2O3%	13.63	15.52	16.07	16.45	9.18	17.12
Fe2O3 %	10.50	3.86	7.76	12.39	5.86	8.16
CaO %	16.87	1.72	4.24	2.94	0.34	6.17
MgO %	4.82	1.69	2.40	3.99	0.69	2.06
NaO %	0.21	5.21	5.37	3.18	3.59	3.89
K2O %	0.16	3.84	0.70	3.48	1.00	1.52
TiO2 %	1.18	0.42	0.72	1.05	0.15	1.05
MnO %	0.22	0.05	0.15	0.29	0.03	0.09
P2O5 %	0.16	0.24	0.28	0.72	0.08	0.68
LOI %	1.60	1.48	1.41	3.03	2.34	1.97
TOTAL	100.60	100.56	100.61	100.41	99.91	100.67
ppm						
Ba	50	1690	260	1150	250	430
Sr	120	450	260	230	40	650
Zr	90	240	150	120	70	160
Y	26	22	18	28	4	30
Sc	43	7	13	15	3	14
Nb	<30	<30	<30	<30	<30	<30
Be	1	<1	<1	<1	<1	<1
Ni	140	45	55	50	40	10
Cr	770	390	400	180	680	360
Cu	95	40	20	160	185	15
V	330	75	120	70	30	75
Co	45	10	20	15	55	15
Zn	45	35	20	110	45	15
	770S	1000S	1200S	1104S	818S	1201S
	310W	385W	100E	237E	250E	159E

Niemetz Copper Occurrence Area

772 Altered tuff south west of Niemetz Occurrence.

786 Felsic dike? near north of Granite Lake.

Highway 11 Showings North of Granite Lake

6107 Intermediate dike or flow?

Acana #2/4 "South Zone" CuNiCo Occurrences

- 6112 1% disseminated fine grained pyrite in rock having white weathering surface.
- 6121 Southwest of showings, white weathering intermediate dike?

Acana #1/3 "Central Zone" CuNiCo Occurrences

- 6113 Felsic or Intermediate rock.

**ANALYSIS
JAMES LAKE GRID
BEST TOWNSHIP
SAMPLES COLLECTED 1994**

SAMPLE #	761	762	763	767	768
%Cu	0.13	1.22	3.20	0.01	0.20
%Co	-	0.003	0.005	0.002	-
%Ni	0.02	0.01	0.01	0.005	0.03
%Mo	-	-	-	-	-
%Pb	-	-	-	-	-
%Zn	0.19	0.05	0.29	0.07	0.05
Ag Oz/Ton	0.08	0.51	0.67	0.29	-
Au Oz/Ton	-	-	-	-	-
Pt Oz/Ton	-	-	-	-	0.001
Pd Oz/Ton	-	-	-	-	-
	240S	210S	202S	410S	123S
	516W	513W	514W	498W	561W

Northland Pyrite Area

- 761** Pyrrhotite and minor chalcopyrite in rusty felsic volcanics.
- 762** 3% chalcopyrite in felsic tuff.
- 763** 5% chalcopyrite, 5% Po in felsic volcanics.
- 767** 1.8 metre chip sample across north face of pit.
- 768** Massive sulphides: 50% pyrite, 50% pyrrhotite.

**ANALYSIS
JAMES LAKE GRID
BEST TOWNSHIP
SAMPLES COLLECTED 1994**

SAMPLE #	769	771	773
%Cu	0.50	0.13	0.31
%Co	0.005	-	-
%Ni	0.01	-	-
%Mo	-	-	-
%Pb	-	-	-
%Zn	-	-	-
Ag Oz/Ton	-	-	-
Au Oz/Ton	-	-	-
Pt Oz/Ton	-	-	<.001
Pd Oz/Ton	-	-	-
	489S	770S	760S
	011E	310W	610W

Niemetz Copper Occurrence Area

- 769** Niemetz Copper Occurrence; Gossan in mafic volcanics.
- 771** Southeast of Niemetz Copper Occurrence: Light pyrite-chalcopyrite.
- 773** On trail leading north from Granite Lake; quartz vein and Gossan.

**ANALYSIS
JAMES LAKE GRID
BEST TOWNSHIP
SAMPLES COLLECTED 1994**

SAMPLE	774	775	776	777	778	779	780	781
	----	----	----	----	----	----	----	----
%Cu	2.66	0.38	6.05	0.56	0.30	0.56	0.29	0.47
%Co	0.124	0.149	0.069	0.024	0.009	0.157	0.007	0.021
%Ni	1.63	0.35	0.20	0.28	0.13	0.18	0.09	0.30
Ag Oz/Ton	0.57	0.35	1.56	0.09	0.05	0.31	0.07	0.07
Au Oz/Ton	0.034	0.014	0.008	0.010	0.004	0.011	0.003	0.006
Pt Oz/Ton	0.059	0.040	0.057	0.010	0.009	0.027	0.007	0.012
Pd Oz/Ton	0.323	0.078	0.017	0.039	0.0290.038-		0.019	0.049
Ir ppb	80	15	-	-	-	-	-	-
Os ppb	110	30	-	-	-	-	-	-
Rh Oz/Ton	0.003	0.006	0.002	<.001	<.001	0.007	<.001	<.001
Ru	100	<50	-	-	-	-	-	-
	1920S	1946S	1920S	1948S	1920S	1920S	1920S	1920S
	60W	504W	560W	502W	560W	560W	560W	560W

Acana #5 CuNiCo-PtPdAu Occurrence

774	Massive Sulphide, 10% chalcopryrite, 75% pyrite.
775	Massive Pyrite.
776	Massive Pyrite.
777	Light pyrite.
778	1% pyrite, 1% chalcopryrite.
779	Massive pyrite.
780	6 cm. calcite vein, Cu stain.
781	2% pyrite, trace chalcopryrite.

**ANALYSIS
JAMES LAKE GRID
BEST TOWNSHIP
SAMPLES COLLECTED 1994**

SAMPLE	782	783	784	785	788	1732	1733
%Cu	0.05	0.11	0.26	0.01	0.05	-	-
%Co	-	0.006	0.006	-	0.018	0.005	0.005
%Ni	-	0.07	0.08	-	0.08	0.02	0.02
%Pb	0.13	-	-	-	-	-	-
Ag Oz/Ton	0.06	-	-	-	-	-	-
Au Oz/Ton	-	0.001	0.003	-	0.001	-	-
Pt Oz/Ton	-	0.007	0.011	0.001	<.001	0.001	0.001
Pd Oz/Ton	-	0.027	0.040	0.001	0.001	0.001	0.001
	780S	2214S	2214S	2227S	1000S	2425S	2435S
	200W	440W	440W	424W	125E	450W	450W

Niemetz Copper Occurrence Area

782 From blast muck on pipeline right of way south of Niemetz Copper Occurrence: Calcite vein, minor galena.

Highway 11 Pt Showing

783 0.2% pyrite in diabase N. of Highway 11
784 0.5% pyrite, trace Cb in diabase N. of Highway 11
785 Barren mafic intrusive south of Highway 11

Highway 11 Showings North of Granite Lake

788 2% sulphide in rusty rock.

Ontario Northland Railway Mafic Dike

1732 Mafic dike
1733 Mafic dike

**ANALYSIS
 JAMES LAKE GRID
 BEST TOWNSHIP
 SAMPLES COLLECTED 1994**

SAMPLE #	6103	6104	6105	6106
%Cu	-	0.22	0.10	0.005
%Co	0.002	0.013	0.003	0.005
%Ni	-	0.30	0.03	-
Ag Oz/Ton	-	-	-	-
Au Oz/Ton	Nil	-	-	-
Pt Oz/Ton	-	-	-	-
Pd Oz/Ton	-	0.001	<.001	<.001
	1020S	1037S	1116S	1148S
	115E	112E	105E	100E

Acana #2/4 "South Zone" CuNiCo Occurrence

6103 **Minor Cm.**

6104 **Pod of Disseminated to massive Cm-Cb.**

6105 **Minor Cm, Cb.**

6106 **Volcanics.**

**ANALYSIS
JAMES LAKE GRID
BEST TOWNSHIP
SAMPLES COLLECTED 1994**

SAMPLE	6108	6109	6110	6111	6112	6114	6115	6116
%Cu	0.90	2.22	0.27	0.47	0.05	0.25	0.17	0.40
%Co	0.032	0.019	0.017	0.028	0.003	0.003	0.076	0.070
%Ni	0.57	0.35	0.13	0.62	0.01	0.01	0.18	0.15
%Zn	0.04	-	-	-	-	-	-	-
Ag Oz/Ton	-	-	0.02	0.04	0.01	-	-	-
Au Oz/Ton	0.001	0.003	0.001	0.010	0.003	-	-	0.001
Pt Oz/Ton	<.001	-	0.001	<.001	<.001	-	<.001	-
Pd Oz/Ton	0.003	0.001	0.001	0.001	<.001	-	<.001	-
	1073S	1179S	1179S	1080S	1104S	817S	817S	753S
	260E	250E	250E	245E	237E	250E	250E	285E

Acana #2/4 "South Zone" CuNiCo Occurrence

6108 12% Po, 3% Cb in fine grained dark green matrix.
6109 4% Cb, 15% Po (fine grained) throughout dark fine grained green matrix.
6110 3% coarse pyrite in seam cutting fine grained dark green matrix.
6111 5% Po, minor pyrite in feathery hornblende matrix.
6112 1% disseminated fine grained pyrite in rock having white weathering surface.

Acana #1/3 "Central Zone" CuNiCo Occurrence

6114 0.5% Cb, 0.5% Po in rusty silicious rock.
6115 Massive Po.
6116 Massive Po, 2% Cb, 2% Cm.

**ANALYSIS
JAMES LAKE GRID
BEST TOWNSHIP
SAMPLES COLLECTED 1994**

SAMPLE	6117	6118	6119	6120	6122	6123	6124	6125
%Cu	0.04	0.17	0.04	0.59	0.18	0.32	0.11	0.25
%Co	0.015	0.013	0.063	0.017	0.022	0.011	-	0.019
%Ni	0.18	0.20	0.07	0.03	0.47	0.19	-	0.03
%Mo	-	-	-	-	-	-	0.81	0.005
%Pb	-	-	-	-	-	-	-	-
%Zn	-	0.02	0.01	0.01	-	-	-	-
Ag Oz/Ton	0.01	-	0.04	0.13	-	-	0.03	0.06
Au Oz/Ton	Nil	Nil	0.001	0.001	0.001	0.002	0.002	0.001
Pt Oz/Ton	<.001	<.001	<.001	<.001	0.003	<.001	-	0.001
Pd Oz/Ton	<.001	<.001	<.001	<.001	0.002	0.001	-	0.001
	646S	649S	685S	685S	1219S	1219S	1360S	1625S
	294E	300E	271E	271E	191E	191E	585W	775W

Adjacent to "North Zone"/Rib Lake Road Copper Occurrence.

6117 5% Po + Cb + Cm in coarse hornblende in.

6118 5% Po + Cm.

Acana 1/3 "Central Zone" CuNiCo Occurrence

6119 Shaft muck, 10% fine to coarse Cm (in Tuff?)

6120 Shaft muck, fine stringers of Cb + Cm in silicious grey rock.

Cm 2/4 "South Zone" CuNiCo Occurrence

6122 30% Po throughout rock, 2% Cm as 2 cs seams.

6123 partially bleached rock, 3% fine grained wispy Po, 1% fine grained Cb, 1% coarse Cm.

Trans-Canada Pipeline Mineral Occurrence

6124 Pegmatite vein, coarse crystalline molybdenite.

6125 muck from pipeline, Massive Cm.

**ANALYSIS
JAMES LAKE GRID
BEST TOWNSHIP
SAMPLES COLLECTED 1994**

SAMPLE	6126	6127	6128	6129	6133	6134	6135
%Cu	0.01	0.93	0.59	0.51	3.12	0.71	1.52
%Co	-	0.061	0.058	0.015	0.032	0.028	0.055
%Ni	-	0.33	0.39	0.10	0.20	0.18	0.59
%Mo	1.99	0.005	-	-	-	-	-
%Pb	-	-	-	-	-	-	-
%Zn	-	-	0.14	0.05	0.08	0.02	0.06
Ag Oz/Ton	0.01	-	0.06	0.06	0.52	0.12	0.25
Au Oz/Ton	0.001	Nil	Nil	Nil	0.001	0.002	0.001
Pt Oz/Ton	-	<.001	0.001	<.001	<.001	<.001	<.001
Pd Oz/Ton	-	<.001	0.011	0.003	0.004	0.002	0.001
	1625S	1460S	1740S	1740S	1725S	1725S	1725S
	775W	640W	345W	345W	373W	373W	375W

Trans-Canada Pipeline Mineral Occurrence

6126 1 cm quartz vein with coarse crystalline molybdenite from pipeline muck.
 6127 1/2 of sample 75% fine grained Cm, other 1/2 of sample cup with disseminated Cb and Cb stringers (average 25% Cb, 3% Cb) from pipeline muck.

Acana #7 "Southwest Shore of Granite Lake" CuNiCo Occurrence

6128 Massive Po, 3% Cb, from shallow pit west of trail.
 6129 5% Cm + 5% fine disseminated Po (same location as 6129)
 6133 Massive Po-Cb.
 6134 Massive Po, 7% Cb, associated with coarse hornblende alteration.
 6135 very fine grained massive Po, 5% Cb.

**ANALYSIS
JAMES LAKE GRID
BEST TOWNSHIP
SAMPLES COLLECTED 1994**

SAMPLE	6896	8445	16003	16004
	----	----	----	----
%Cu	8.02	-	0.14	0.10
%Co	0.078	0.003	0.03	0.04
%Ni	0.36	0.05	0.20	0.19
%Mo	-	-	-	-
%Pb	-	-	-	-
%Zn	-	-	0.03	0.03
Ag Oz/Ton	1.81	0.02	0.02	0.01
Au Oz/Ton	0.049	0.002	Nil	Nil
Pt Oz/Ton	0.024	-	<.001	<.001
Pd Oz/Ton	0.055	-	<.001	<.001
	1946S	1055S	1458S	1459S
	504W	095E	600W	600W

Acana # 5 CuNiCo-PtPdAu Occurrence;

6896 Massive pyrite-chalcopyrite.

Highway 11 Showings North of Granite Lake

8445 2 cm Calcite vein, prominent Cv, no bloom

Trans-Canada Pipeline Mineral Occurrence

16003 3 cm Pyrrhotite zone in outcrop of mafic intrusive.

16004 3 cm Pyrrhotite zone in outcrop of mafic intrusive south of sample 16003.



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Assay Certificate

4W-1650-RA1

Company: **TARGET GEOLOGICAL SERVICES**

Date: **AUG-09-94**

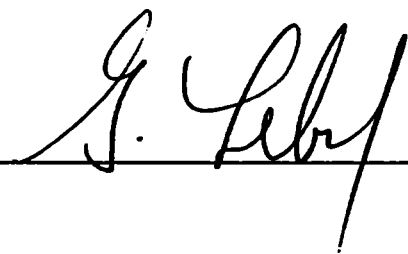
Project:

Attn: **G. Chitaroni**

We hereby certify the following Assay of 12 Rock samples submitted AUG-02-94 by .

Sample Number	Au oz/ton	Au Check oz/ton	Ag oz/ton	Co %	Cu %	Pb %	Pt oz/ton	Pd oz/ton	MRA
771	-	-	-	-	0.13	-	-	-	Results to follow
772	-	-	-	-	-	-	-	-	
773	-	-	-	-	0.31	-	<0.001	-	
774	0.034	0.033	0.57	0.124	2.66	-	0.059	0.323	
775	0.014	0.016	0.35	0.149	0.38	-	0.040	0.078	
776	0.008	-	1.56	0.069	6.05	-	0.057	0.017	
777	0.010	-	0.09	0.024	0.56	-	0.010	0.039	
778	0.004	-	0.05	0.009	0.30	-	0.009	0.029	
779	0.011	0.008	0.31	0.157	0.56	-	0.027	0.038	
780	0.003	-	0.07	0.007	0.29	-	0.007	0.019	
781	0.006	-	0.07	0.021	0.47	-	0.012	0.049	
782	-	-	0.06	-	0.05	0.13	-	-	

One assay ton portion used.

Certified by 

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FAX (705) 642-3300

I.C.A.P. TOTAL OXIDE ANALYSIS

Lithium Metaborate Fusion

4W-1650-00A1

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Fe2O	K2O	TiO2	MnO	P2O5	Na	Sr	Zr	Y	Sc	NO	Be	KI	Cr	Cu	V	Co	Sn	LOI TOTAL
%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
772	51.24	13.63	10.60	16.87	6.92	0.21	0.16	1.18	0.23	0.16	80	120	90	24	4	< 30	1	140	770	98	310	45	45	1.60100

SIGNED :



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Assay Certificate

4W-1650-RA2

Company: **TARGET GEOLOGICAL SERVICES**

Date: AUG-23-94

Project:

Attn: **G. Chitaroni**

We hereby certify the following Assay of 12 Rock samples submitted AUG-02-94 by .

Sample Number	Ni %	Rh oz / ton
771	-	-
772	-	-
773	-	-
774	1.63	0.003
775	0.35	0.006
776	0.20	0.002
777	0.28	<0.001
778	0.13	<0.001
779	0.18	0.007
780	0.09	<0.001
781	0.30	<0.001
782	-	-

Certified by

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TSL/ASSAYER Laboratories
 1270 PEPPER DRIVE, UMI
 MISSISSAUGA, ONTARIO L4W-1A4
 PHONE #: (905) 802-8236 FAX #: (905) 206-0313

TARGET GEOLOGICAL SERVICES
 ATTN: GUSO CRITICOM

REPORT No. : M4
 Page No. : 1 of 1
 File No. : OC198A
 Date : OCT-19-1994

I.C.A.P. TOTAL OXIDE ANALYSIS

Lithium Metaborate Fusion

40-2450-0021

SAMPLE #	SiO ₂		Al ₂ O ₃		CaO		MgO		Fe ₂ O ₃		TiO ₂		P ₂ O ₅		Sr		Y		Nb		Ba		Mn		Cu		Co		Zn		LOI TOTAL	
	%	PPM	%	PPM	%	PPM	%	PPM	%	PPM	%	PPM	%	PPM	%	PPM	%	PPM	%	PPM	%	PPM	%	PPM	%	PPM	%	PPM	%	PPM		
786	64.54	15.82	3.86	9.21	1.72	3.82	0.42	0.58	0.24	0.70	0.42	0.58	0.24	0.70	450	450	22	22	< 30	< 30	45	45	45	45	45	45	45	45	45	45	1.48100	1.48100
6107	61.92	16.07	3.76	9.37	4.24	2.80	0.72	0.54	0.28	0.60	0.72	0.54	0.28	0.60	260	260	18	18	< 30	< 30	88	88	88	88	88	88	88	88	88	88	1.41500	1.41500

[Handwritten Signature]

SIGNED :



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Geochemical Analysis Certificate

4W-2450-RG1

Company: **TARGET GEOLOGICAL SERVICES**

Date: **OCT-20-94**

Project:

Attn: **G. Chitaroni**

We hereby certify the following Geochemical Analysis of 10 Rock samples submitted OCT-07-94 by .

Sample Number	Au oz/ton	Co %	Cu %	Ni %	Pt oz/ton	Pd oz/ton	WRA
783	0.001	0.006	0.11	0.07	0.007	0.027	
784	0.003	0.006	0.26	0.08	0.011	0.040	
785	-	-	0.01	-	0.001	0.001	
786	-	-	-	-	-	-	
787 No Sample	-	-	-	-	-	-	
788	0.001	0.018	0.05	0.08	<0.001	0.001	
6103	Nil	0.002	-	-	-	-	
6104	-	0.013	0.22	0.30	-	0.001	
6105	-	0.003	0.10	-	-	<0.001	
6106	-	0.005	0.005	-	-	<0.001	
6107	-	-	-	-	-	-	

Certified by

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

Telephone (705) 642-3244

FAX (705) 642-3300

TARGET GEOLOGICAL SERVICES

ATTN: G. CHITABONI / D. NORLIND

1270 FENSTER DRIVE,
3 MISSISSAUGA, ONTARIO L4W-1A4

PHONE #: (905)602-8236 FAX #: (905)204-0813

REPORT No. : 198

Page No. : 1 of 1

File No. : 00298A

Date : OCT-30-1994

48-2644-201

I.C.A.P. TOTAL OXIDE ANALYSIS

Lithium Metaborate Fusion

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Mn2O	K2O	Na2O	TI02	P2O5	SO3	BT	Y	Zr	MO	NI	CU	CO	LOI
6112	32.90	16.45	12.09	2.96	3.79	3.18	3.48	1.05	0.28	0.72	1.90	230	170	28	18	50	160	18	3.03
6113	76.04	9.18	5.06	0.36	0.84	3.59	1.00	0.18	0.03	0.08	1.90	40	70	4	40	185	85	2.34	
6121	37.37	17.12	6.36	6.17	2.06	3.89	1.82	1.05	0.09	0.62	1.90	680	160	30	10	15	18	1.97	

[Handwritten Signature]

SIGNED :

BQ

ANALYSIS REPORT

Report T94-00557.0

Becquerel Laboratories Inc.
6790 Kitchmat Rd., Unit 4,
Mississauga, Ont. L5N 5L9

Date: November 1, 1994

Client: Swastika Laboratories

Analysis of 2 samples by neutron activation after
nickel sulphide fusion.

Samples submitted by G. Lebel

Sample I.D.	Au	Ir	Os	Pd	Pt	Rh	Ru
774	ppb 610	ppb 80	ppb 110	ppb 9800	ppb 3000	ppb 80	ppb 100
775	350	15	30	3050	1100	220 <	50

Notes: The precision for Pt and Rh, Pd is lowered
by the elevated Cu content in sample 774.



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Geochemical Analysis Certificate

4W-2644-RG1

Company: **TARGET GEOLOGICAL SERVICES**

Date: NOV-02-94

Project:

Attn: **G. Chitaroni/D. Robinson**

We hereby certify the following Geochemical Analysis of 20 Rock samples submitted OCT-24-94 by .

Sample Number	Au oz/ton	Au Check oz/ton	Ag oz/ton	Co %	Cu %	Mo %	Ni %	Zn %	Pt oz/ton	Pd oz/ton	URA
6108	0.001	-	-	0.032	0.90	-	0.57	0.04	<0.001	0.003	
6109	0.003	-	-	0.019	2.22	-	0.35	-	-	0.001	
6110	-	-	-	-	-	-	-	-	0.001	0.001	
6111	-	-	-	-	-	-	-	-	<0.001	0.001	
6112	-	-	-	-	-	-	-	-	<0.001	<0.001	
6113	-	-	-	-	-	-	-	-	-	-	
6114	-	-	-	0.003	0.25	-	0.01	-	-	-	
6115	-	-	-	0.076	0.17	-	0.18	-	<0.001	<0.001	
6116	0.001	-	-	0.070	0.40	-	0.15	-	-	-	
6117	Nil	-	0.01	0.015	0.04	-	0.18	-	<0.001	<0.001	
6118	Nil	-	-	0.015	0.17	-	0.20	0.02	<0.001	<0.001	
6119	0.001	-	0.04	0.063	0.04	-	0.07	-	<0.001	<0.001	
6120	0.001	0.001	0.13	0.017	0.59	-	0.03	-	<0.001	<0.001	
6121	-	-	-	-	-	-	-	-	-	-	
6122	0.001	-	-	0.022	0.18	-	0.47	-	0.003	0.002	
6123	0.002	-	-	0.011	0.52	-	0.19	-	<0.001	0.001	
6124	0.002	-	0.03	-	0.11	0.81	-	-	-	-	
6125	0.001	-	0.06	0.019	0.25	0.005	0.03	-	0.001	0.001	
6126	0.001	-	0.01	-	0.01	1.99	-	-	-	-	
6127	Nil	-	-	0.061	0.93	0.005	0.33	-	<0.001	<0.001	

Certified by

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Assay Certificate

4W-1650-RA3

Company: **TARGET GEOLOGICAL SERVICES**

Date: NOV-02-94

Project:

Attn: **G. Chitaroni**

We hereby certify the following Assay of 2 Rock samples submitted AUG-02-94 by .

Sample Number	Au oz/ton	Ir oz/ton	Os oz/ton	Pd oz/ton	Pt oz/ton	Rh oz/ton	Ru oz/ton
✓ 774	0.018	0.002	0.003	0.286	0.087	0.002	0.003
✓ 775	0.010	<0.001	<0.001	0.089	0.032	0.006	<0.001

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Geochemical Analysis Certificate

4W-2642-RG1

Company: **TARGET GEOLOGICAL SERVICES**

Date: NOV-02-94

Project:

Attm: **G.Chitaroni/D. Robinson**

We hereby certify the following Geochemical Analysis of 3 Rock samples submitted OCT-25-94 by .

Sample Number	Au Au Check		Ag oz/ton	Co %	Cu %	Mo %	Ni %	Zn %	Pd oz/ton	Pt oz/ton
	oz/ton	oz/ton								
6894	-	-	0.16	0.002	0.57	0.001	0.02	0.19	<0.001	-
6895	0.001	-	-	0.004	0.07	0.001	0.01	-	<0.001	<0.001
6896	0.049	0.043	1.81	0.078	8.02	-	0.36	-	0.024	0.055

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Assay Certificate

4W-2766-RA1

Company: **TARGET GEOLOGICAL SERVICES**

Date: **NOV-07-94**

Project:

Copy 1. copy to D. Robinson

Attn: **G.Chitaroni/D. Robinson**

We hereby certify the following Assay of 8 Rock/Chip samples submitted NOV-02-94 by G. Chitaroni.

Sample Number	Au oz/ton	Ag oz/ton	Co %	Cu %	Ni %	Zn %	Pt oz/ton	Pd oz/ton
K-1732	-	-	0.005	-	0.02	-	0.001	0.001
K-1733	-	-	0.005	-	0.02	-	0.001	0.001
K-1734	-	-	-	-	-	-	<0.001	<0.001
K-6128	Nil	0.06	0.058	0.59	0.39	0.14	0.001	0.011
K-6129	Nil	0.06	0.015	0.51	0.10	0.05	<0.001	0.003
K-6133	0.001	0.52	0.032	3.12	0.20	0.08	<0.001	0.004
K-6134	0.002	0.12	0.028	0.71	0.18	0.02	<0.001	0.002
K-6135	0.001	0.25	0.055	1.52	0.59	0.06	<0.001	0.001

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Assay Certificate

4W-3000-RA1

Company: **TARGET GEOLOGICAL SERVICES**
Project: **PO# 183**
Attn: **G. Chitaroni/D. Robinson**

Date: **NOV-23-94**

We hereby certify the following Assay of 2 Rock Chip samples submitted NOV-21-94 by D. Robinson.

Sample Number	Au oz/ton	Ag oz/ton	Co %	Cu %	Ni %	Zn %	Pt oz/ton	Pd oz/ton
✓ 16003	Nil	0.02	0.03	0.14	0.20	0.03	<0.001	<0.001
✓ 16004	Nil	0.01	0.04	0.10	0.19	0.03	<0.001	<0.001

Certified by _____

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Assaying - Consulting - Representation

Geochemical Analysis Certificate

4W-2450-RG2

Company: **TARGET GEOLOGICAL SERVICES**

Date: DEC-16-94

Project:

Attn: **G. Chitaroni**

We hereby certify the following Geochemical Analysis of 1 Pulp samples submitted DEC-15-94 by .

Sample Number	Ni %
783	-
784	-
785	-
786	-
787	-
788	-
6103	-
6104	-
6105	0.03
6106	-
6107	-

Certified by _____

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Assay Certificate

4W-1613-RA2

Company: **TARGET GEOLOGICAL SERVICES**

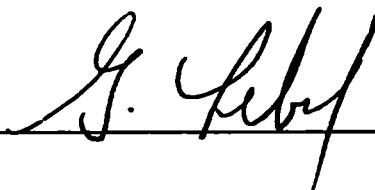
Date: DEC-16-94

Project:

Attn: **G. Chitaroni**

We hereby certify the following Assay of 4 Pulp samples submitted DEC-15-94 by .

Sample Number	Co %	Ni %	Zn %
756	-	-	-
757	-	-	-
758	-	-	-
759	-	-	-
760	-	-	-
761	-	-	-
762	0.003	0.01	0.05
763	0.005	0.01	-
764	-	-	-
765	-	-	-
766	-	-	-
767	0.002	0.005	-
768	-	-	-
769	0.005	0.01	-
770	-	-	-

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Geochemical Analysis Certificate

4W-2644-RG2

Company: **TARGET GEOLOGICAL SERVICES**

Date: DEC-16-94

Project:

Attn: **G. Chitaroni/D. Robinson**

We hereby certify the following Geochemical Analysis of 5 Pulp samples submitted OCT-24-94 by .

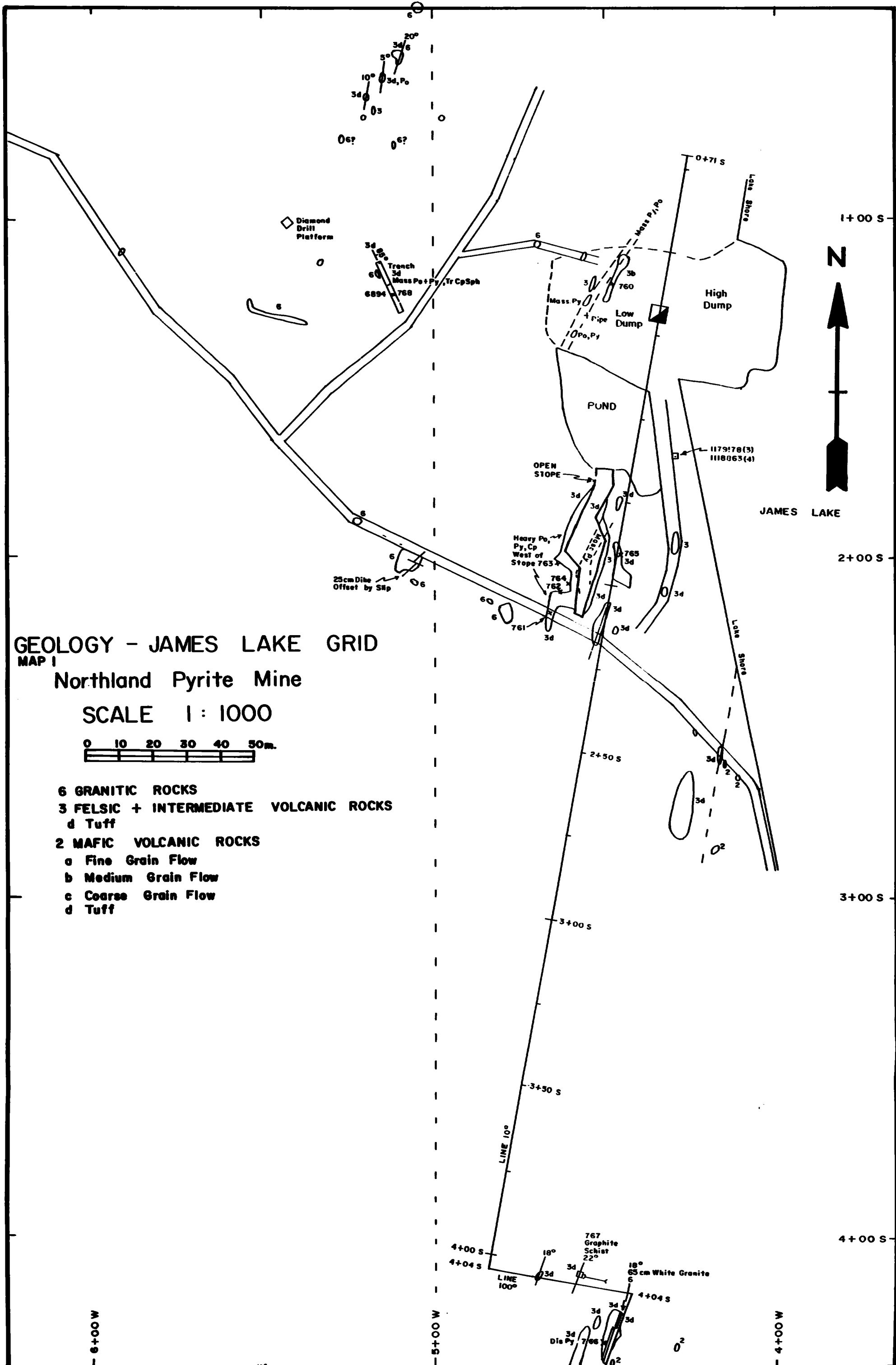
Sample Number	Au oz / ton	Ag oz / ton	Co %	Cu %	Ni %	Zn %
6108	-	-	-	-	-	-
6109	-	-	-	-	-	-
6110	0.001	0.02	0.017	0.27	0.13	-
6111	0.010	0.04	0.028	0.47	0.62	-
6112	0.003	0.01	0.003	0.05	0.01	-
6113	-	-	-	-	-	-
6114	-	-	-	-	-	-
6115	-	-	-	-	-	-
6116	-	-	-	-	-	-
6117	-	-	-	-	-	-
6118	-	-	-	-	-	-
6119	-	-	-	-	-	0.01
6120	-	-	-	-	-	0.01
6121	-	-	-	-	-	-
6122	-	-	-	-	-	-
6123	-	-	-	-	-	-
6124	-	-	-	-	-	-
6125	-	-	-	-	-	-
6126	-	-	-	-	-	-
6127	-	-	-	-	-	-

Certified by Denis Charte

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

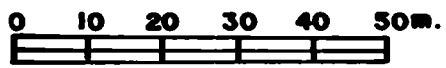
Telephone (705) 642-3244

FAX (705) 642-3300

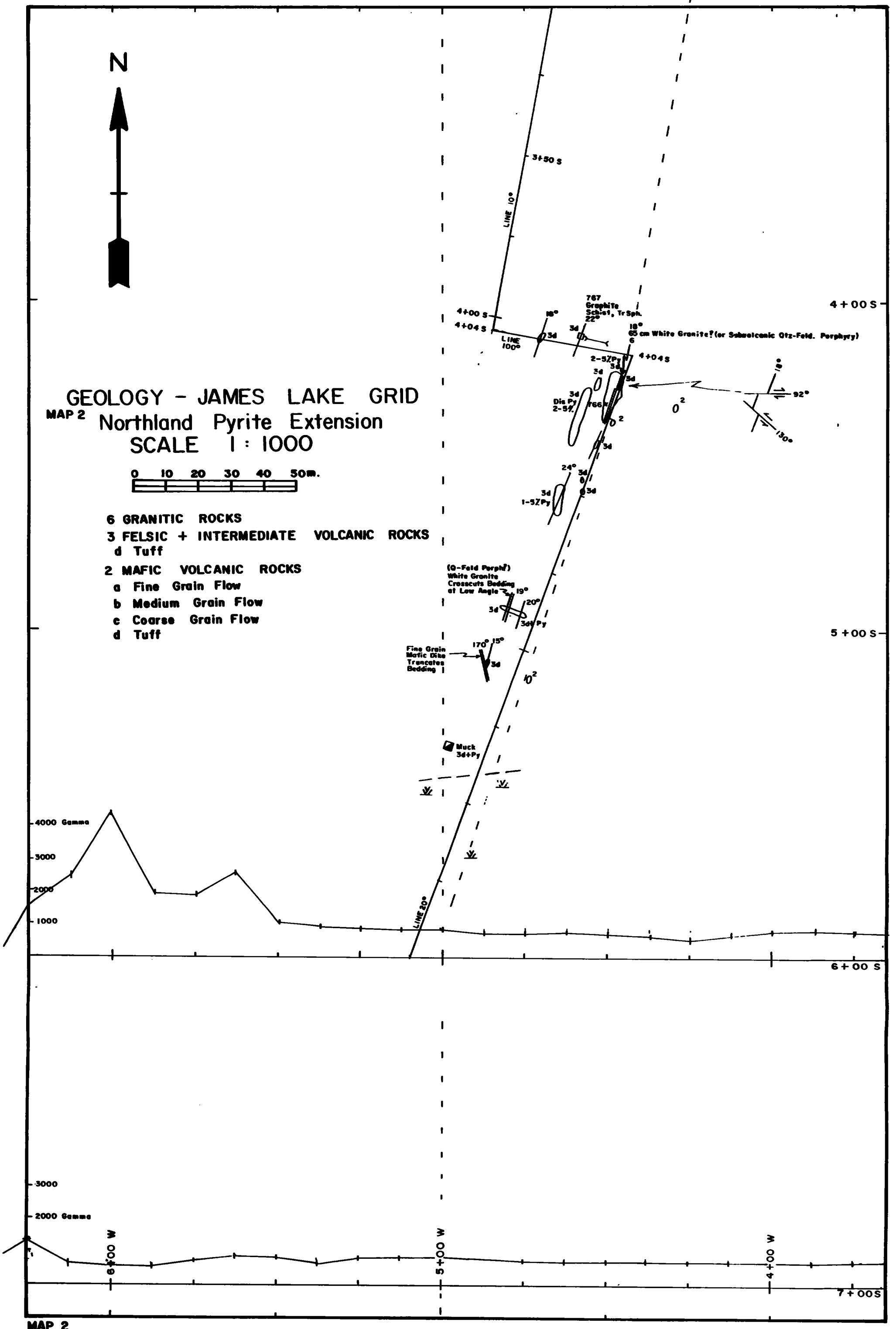




GEOLOGY - JAMES LAKE GRID
MAP 2 Northland Pyrite Extension
SCALE 1:1000



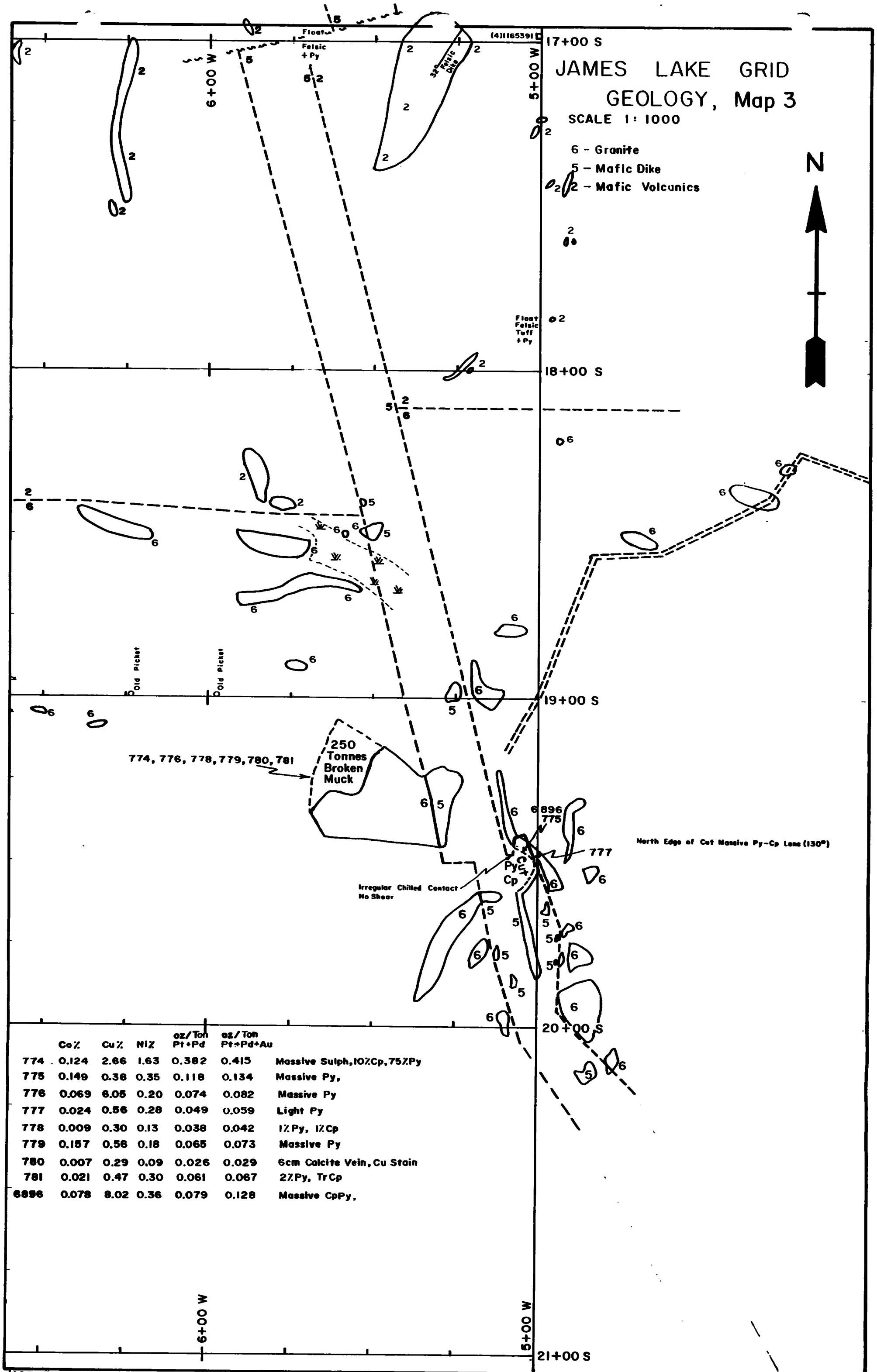
- 6 GRANITIC ROCKS**
- 3 FELSIC + INTERMEDIATE VOLCANIC ROCKS**
- d Tuff**
- 2 MAFIC VOLCANIC ROCKS**
- a Fine Grain Flow**
- b Medium Grain Flow**
- c Coarse Grain Flow**
- d Tuff**



JAMES LAKE GRID
GEOLOGY, Map 3

SCALE 1: 1000

- 6 - Granite
- 5 - Mafic Dike
- 2 - Mafic Volcanics



	Co%	Cu%	Ni%	oz/Ton Pt+Pd	oz/Ton Pt+Pd+Au	
774	0.124	2.66	1.63	0.382	0.415	Massive Sulph, 10% Cp, 75% Py
775	0.149	0.38	0.35	0.118	0.134	Massive Py,
776	0.069	6.05	0.20	0.074	0.082	Massive Py
777	0.024	0.56	0.28	0.049	0.059	Light Py
778	0.009	0.30	0.13	0.038	0.042	1% Py, 1% Cp
779	0.157	0.56	0.18	0.065	0.073	Massive Py
780	0.007	0.29	0.09	0.026	0.029	6cm Calcite Vein, Cu Stain
781	0.021	0.47	0.30	0.061	0.067	2% Py, Tr Cp
6896	0.078	8.02	0.36	0.079	0.128	Massive CpPy,

Problem Page

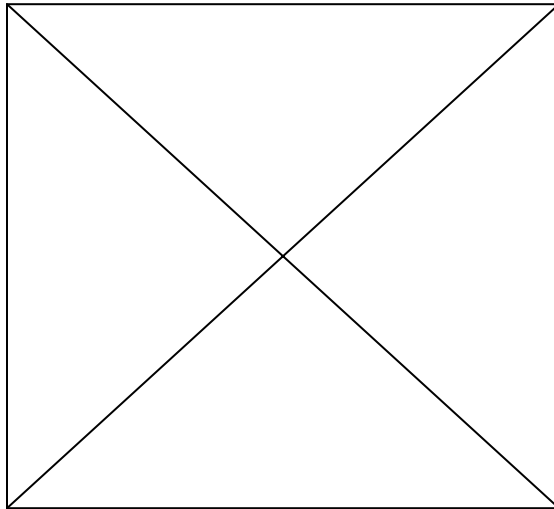
The original page in this document had a problem when scanned and as a result was unable to convert to Portable Document Format (PDF).

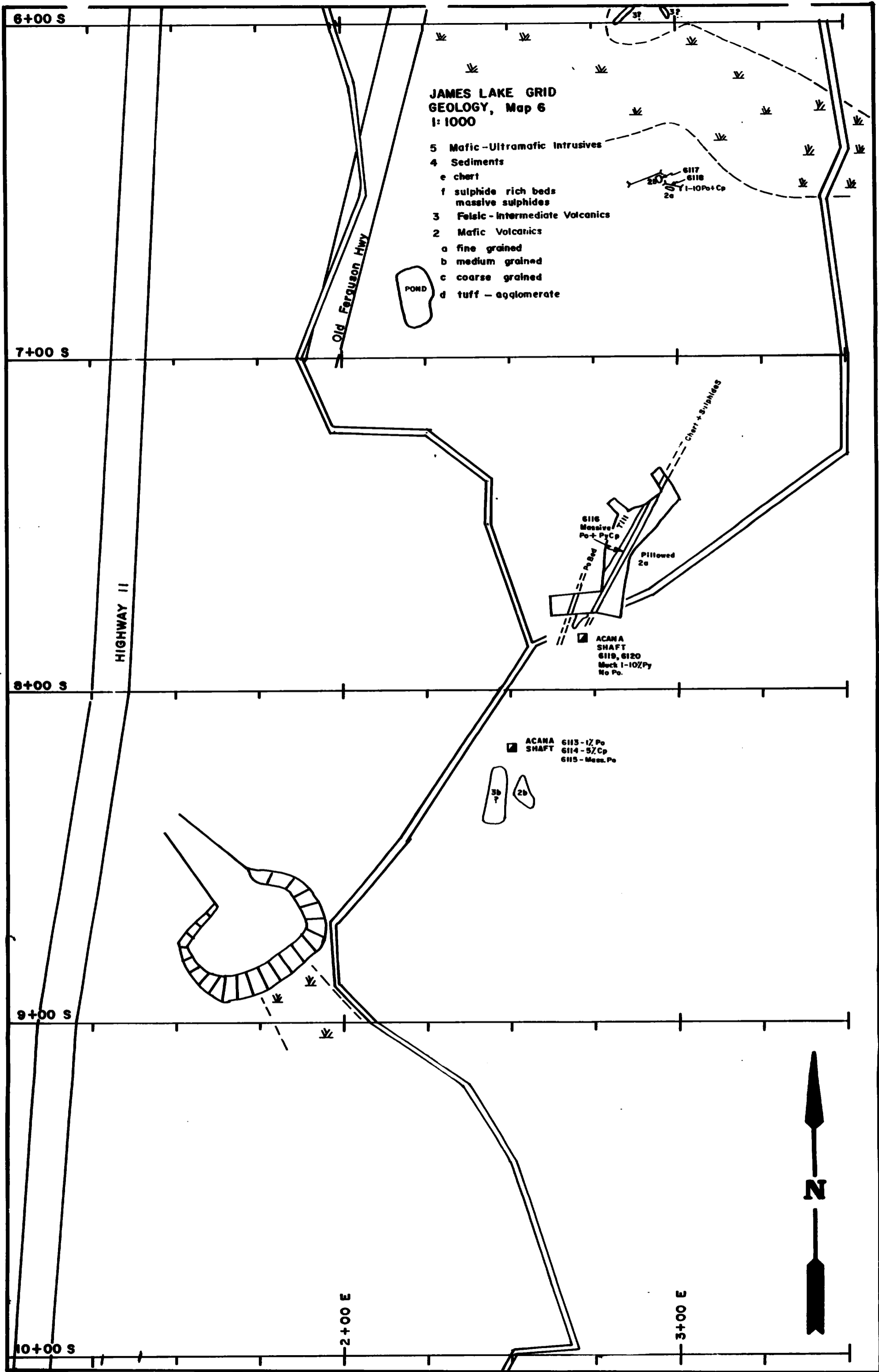
We apologize for the inconvenience.

Problème de conversion de page

Un problème est survenu au moment de balayer la page originale dans ce document. La page n'a donc pu être convertie en format PDF.

Nous regrettons tout inconvénient occasionné par ce problème.





**JAMES LAKE GRID
GEOLOGY, Map 6
1:1000**

- 5 Mafic-Ultramafic Intrusives
- 4 Sediments
- e chert
- f sulphide rich beds
massive sulphides
- 3 Felsic-Intermediate Volcanics
- 2 Mafic Volcanics
- a fine grained
- b medium grained
- c coarse grained
- d tuff - agglomerate

6117
6118
S¹-10Po+Co
2a

Old Ferguson Hwy

POND

HIGHWAY II

6116
Massive
Po+PyCo
Pillowed
2a
ACANA
SHAFT
6119, 6120
Muck 1-10ZPy
No Po.

ACANA
SHAFT
6113-17 Po
6114-5ZCo
6115 - Mass. Po

3b
2b

6+00 S

7+00 S

8+00 S

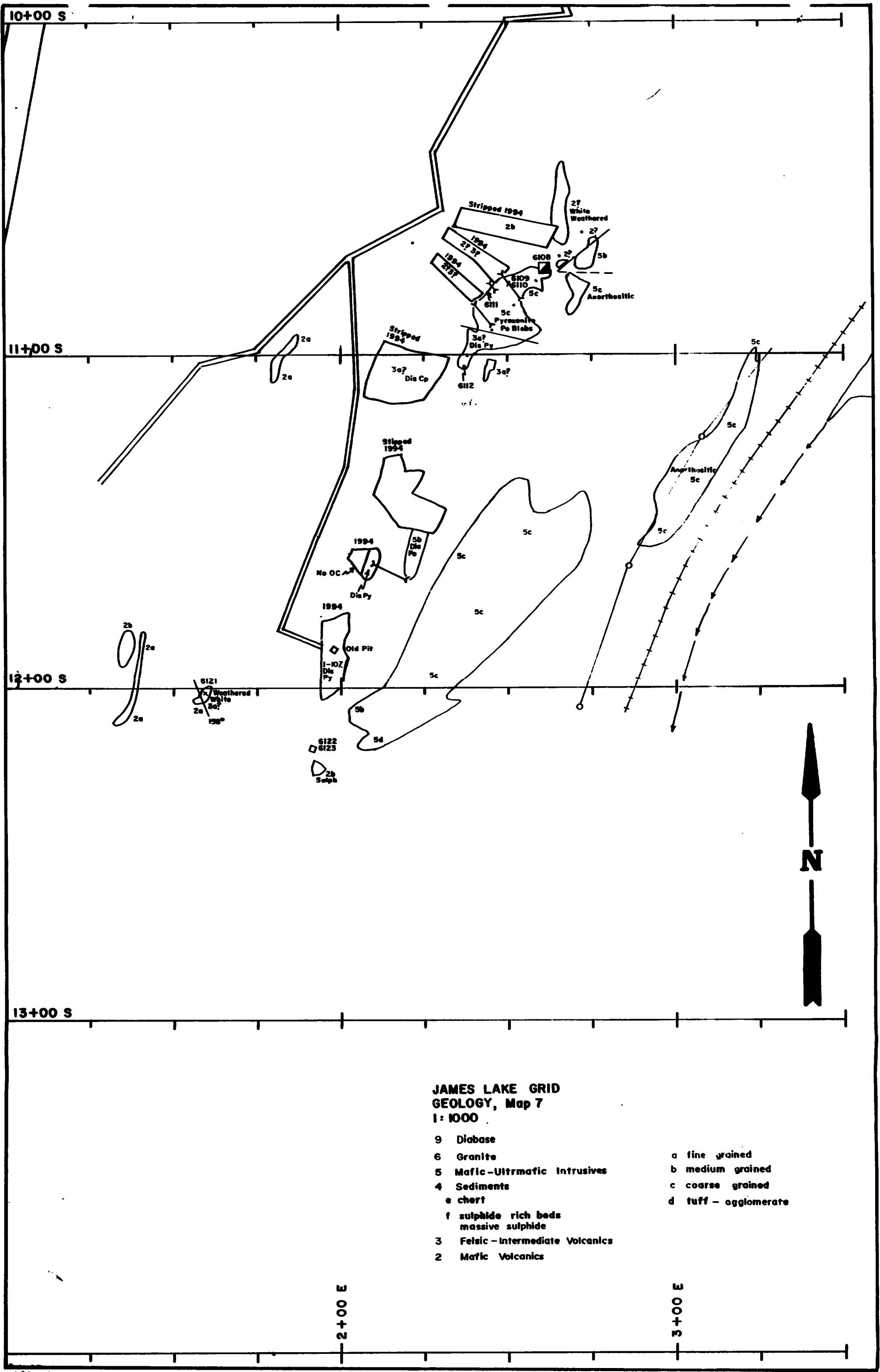
9+00 S

10+00 S

2+00 E

3+00 E





**JAMES LAKE GRID
GEOLOGY, Map 7
1: 1000**

- | | |
|--|----------------------|
| 9 Diabase | a fine grained |
| 6 Granite | b medium grained |
| 5 Mafic-Ultramafic Intrusives | c coarse grained |
| 4 Sediments | d tuff - agglomerate |
| e chert | |
| f sulphide rich beds
massive sulphide | |
| 3 Felsic - Intermediate Volcanics | |
| 2 Mafic Volcanics | |

6+00 S

7+00 S

8+00 S

9+00 S

10+00 S

**JAMES LAKE GRID
GEOLOGY, Map 6
1:1000**

- 5 Mafic-Ultramafic Intrusives
- 4 Sediments
 - e chert
 - f sulphide rich beds
massive sulphides
- 3 Felsic-Intermediate Volcanics
- 2 Mafic Volcanics
 - a fine grained
 - b medium grained
 - c coarse grained
 - d tuff - agglomerate

Old Ferguson Hwy

POND

HIGHWAY 11

Strip #1

6116
Massive
Po+PyCp

Pillowed
2a

ACANA
SHAFT
6119, 6120
Mach 1-10ZPy
No Po.

ACANA
SHAFT
6113-1Z Po
6114-5ZCp
6115-Mass. Po

3b
2b

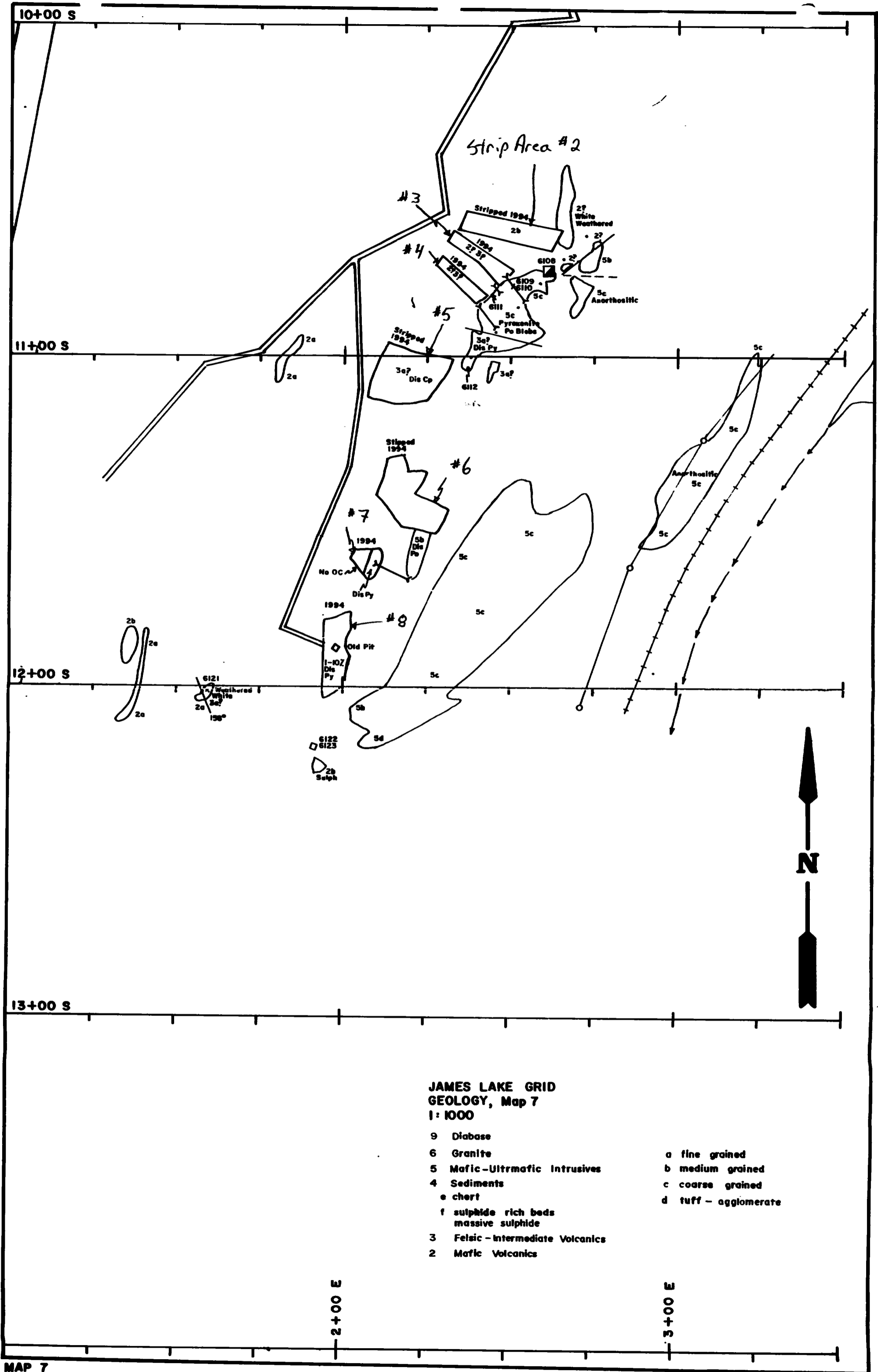
6117
6118
Tuff-10Po+Cp
2a

Chert + Sulphides



2+00 E

3+00 E



**JAMES LAKE GRID
GEOLOGY, Map 7
1: 1000**

- | | |
|--|----------------------|
| 9 Diabase | a fine grained |
| 6 Granite | b medium grained |
| 5 Mafic-Ultramafic Intrusives | c coarse grained |
| 4 Sediments | d tuff - agglomerate |
| e chert | |
| f sulphide rich beds
massive sulphide | |
| 3 Felsic - Intermediate Volcanics | |
| 2 Mafic Volcanics | |

GINO CHITARONI

GRANITE - JAMES LAKE PROJECT - 1994

Personal Log

<u>Date</u> <u>1994</u>	<u>Time/Period</u>	<u>Comments</u>
July 17 - 21	5 days	Project supervision, Geological Assistant, site-inspection, sampling and manual stripping
July 24 - 26	3 days	ditto
July 27 - 30	4 days	ditto
Oct. 1 - 3	3 days	ditto
Oct. 11, 14, 16, 21	4 days	ditto
Oct. 24 - 28	5 days	Site-preparation, supervision and manual stripping
Oct. 26, 29, 31	3 days	Supervision & Geological Assistant
Nov. 18	1 day	ditto
Total Days	28 days	

28 days at \$200.00/day (8 hrs./day) = \$5,600.00

Granite-James Lake Project
1994 Geological Survey
Best Twp, Temagami, Ontario

"Expenses Summary 1994"

Gino Chitaroni	\$ 5,600.00
- Geological Services Assistant, Sampling, Consultant.	
Doug Robinson	7,509.68
- Wages = \$6,300.00	
- Expenses = \$1,209.68	
- Geological Services, Mapping, sampling, Drafting, & Report, etc..	
James Lathem Excavating Ltd.	1,599.00
- Power Stripping	
Mark Beairsto	1,360.00
- Geological Assistant, Labourer, etc., (\$8/hr)	
(1st wk in Nov.) = \$ 160.00	
(3wks in Aug.) = \$1,200.00	
Rod Beairsto	200.00
- Geological Assistant, Labourer, etc., (\$8/hr)	
(1st wk in Nov.) = \$ 200.00	
Assays	2,737.33
Food (Indirect Costs)	125.72
Fuel/Mileage (Indirect Costs)	369.65

Total	\$19,501.38

GINO CIUTARONI

GRANITE - JAMES LAKE PROJECT EXPENSES

1994

Postage	\$ 29.45
Food	125.72
Stationery supplies & paper work for staking	594.57
Equipment/supplies	1,211.29
Assays	2,737.33
Fuel/mileage	369.65
Contract services	<u>6,710.00</u>
Total for 1994	<u>\$11,778.62</u>

Note: 1. 1994 OPAP Expenditures are included.

2. Phone/Fax bills are not included.

Invoice for personal expenses relating to work done on behalf of Gino Chitaroni on the James Lake Grid, Best Township.

Meals

Oct1-Nov18 (43/3)\$40 \$ 573.33

Sept 27

Car Rental Sept 27-Oct 26 \$1000.00 less \$673 \$ 327.00

July 23 fuel \$ 35.50

July 26 fuel \$ 35.08

July 30 fuel \$ 46.00

Oct 2 Fuel \$ 29.00

Oct 17 fuel \$ 35.00

Dec 12 fuel \$ 34.00

Oct 1, mylar drafting film

6 sheets 11x18 ----> 3 linear feet @ \$3.50/linear foot \$ 9.50

3 sheet 24x42 ----> 2 linear feet @ \$3.50/linear foot \$ 7.00

Oct 08 drafting pen and stationary \$ 18.95

Oct 27 drafting pen \$ 16.05

(mylar wore pens to end of diameter reduction)

July 20 hip chain tread \$ 31.05

Mylar print \$ 12.22

Total Expenses \$ 1209.68

Payment received Dec 15, 1994 \$ 1000.00

Balance owed \$ 209.68

Douglas Robinson



Invoice for work done on behalf of Gino Chitaroni on the James Lake Grid, Best Township.

July	17	8 hr	MS
	18	8 hr	MS
	19	8 hr	MS
	20	8 hr	MS
	21	8 hr	MS
	22	8 hr	MS
	23	8 hr	MS
	24	8 hr	MS
	25	8 hr	MS
	26	8 hr	MS
	27	8 hr	MS
	28	8 hr	MS
	29	8 hr	MS
	30	8 hr	MS
Oct	1	9.25 hr	MSD
	2	8.25 hr	MSD
	3 [✓]	9.75 hr	M
	5	8.75 hr	MS
	11 [✓]	4 hr	SD
	12	8.5 hr	MS
	14	9 hr	M
	16	8.25 hr	MSD
	21	8.5 hr	MS
	26	10.75 hr	MS
	29	9 hr	MS
	30	8.25 hr	MSD
	31	8.5 hr	m
Nov	10 [✓]	9.0 hr	D
	18	11 hr	M
Dec	11 [✓]	10.25 hr	D
	14 [✓]	7.5 hr	D
	15 [✓]	7.5 hr	D
	16 [✓]		

Total 252 hr = 31.5 days @ \$200/day -----> \$ 6300.00

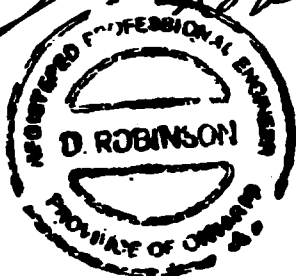
CODE

M - mapping

S - sample preparation, sample delivery, logistics, and miscellaneous activities

D - drafting + report preparation

Douglas Robinson



2 days were spent mapping and drafting Bot Construction muck pile
Douglas Robinson

JAMES LATHEM EXCAVATING LIMITED (1989)
 BOX 176, NIVEN STREET
 NORTH COBALT, ONTARIO
 P0J 1R0

Contract Services 1995

INVOICE

Cheque # 029
Nov 30/94
\$ 800.00
1st installment

NO.: 4073
 DATE: 10/31/94
 PAGE: 1 of 1

S
O
L
D
T
O

Target Geo. Services
 Attn: Gino Chitaroni
 Portage Bay
 Cobalt, Ontario
 POJ1C0

Target Geo. Services
 James Lake

Jan 15/94 cheque # 010 \$300.00
2nd installment

GST Reg : R 102-572-682

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
Oct 25	1.5	hours	Tractor #200 & Float	3		65.00	97.50
Oct 26	9	hours	Hitachi Exc200 bill#38	3		65.00	585.00
Oct 27	9	hours	Hitachi Exc200 bill#39	3		65.00	585.00
Oct 28	3.5	hours	Hitachi Exc200 bill#40	3		65.00	227.50
3 - GST @ 7.0%							104.65

COMMENTS:

Net 30 Days, 2% Interest Per Month

TOTAL ▶ 1,599.65

GINO CHITARONI
BOX 271 TEL: (705) 879-8946
COBALT, ONT. P0J 1C0

CIBC PREMIER SERVICE 034

Nov 22 19 94

PAY TO THE ORDER OF Rod Bearisto \$ 300.00
Two Hundred XX 100 DOLLARS



Canadian Imperial Bank of Commerce
BOX 400
NEW LISKEARD, ONTARIO P0J 1P0

DEPOSIT ACCOUNT

How Chitaroni

Line-Cutting-Labour

⑆034⑆ ⑆00592⑆010⑆ 01⑆91434⑆

GINO CHITARONI
BOX 271 TEL: (705) 879-8946
COBALT, ONT. P0J 1C0

CIBC PREMIER SERVICE 035

Nov 22 19 94

PAY TO THE ORDER OF Mark Bearisto \$ 160.00
One Hundred Sixty XX 100 DOLLARS



Canadian Imperial Bank of Commerce
BOX 400
NEW LISKEARD, ONTARIO P0J 1P0

DEPOSIT ACCOUNT

How Chitaroni

Line-Cutting-Labour

⑆035⑆ ⑆00592⑆010⑆ 01⑆91434⑆

Labour -
Contract
services
1994

Month of August.
1st three wks.

August 30 19 94

RECEIVED FROM
REQU DE

Eino Chitaroni

One Thousand Two Hundred DOLLARS \$ 1,200.00

3 wks at 10 hrs 5 days / wk @ \$8/hr/day - Prospecting
Casual labor on
Fenagami claims

[Signature]

Assays 1994

INVOICE

NO: 30198
DATE: 07-06-84
PAGE: 1 of 1

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

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	
	2	Code 1	Au	3		8.000	16.00	
	2	Code 4	Sample Prep Cert #4W-1308-RA1	3		3.000	6.00	
			3-GST @ 7 %				1.54	
COMMENTS: Net 30 Days							TOTAL	23.54

12-1-1944
009-23

Accounts
1994

INVOICE

NO: 30431
DATE: 08-04-94
PAGE: 1 of 1

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

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

SHIP TO: Same

*✓# 10⁰⁰ 25/07/95
Aug #2 81.95*

GST Number: R132862640

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	G	P	UNIT PRICE	AMOUNT
	6	Code 1	Cu	3		7.250	43.50
	4	Code 1	Ag	3		4.000	16.00
	2	Code 1	Ni	3		4.000	8.00
	4	Code 1	Zn	3		4.000	16.00
	1	Code 1	Pt	3		8.000	8.00
	7	Code 1	WRA Package	3		19.000	133.00
	13	Code 4	Sample Prep	3		3.000	39.00
			Cert #4W-1613-RA1				
			3-GST @ 7 %				18.45

COMMENTS:

Net 30 Days

TOTAL

281.95

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

INVOICE

NO: 30491
 DATE: 08-11-94
 PAGE: 1 of 1

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

SHIP TO:

168 Same

dupl Aug 30/94

GST Number: R132862640

ITEM NO	QUANTITY	UNIT	DESCRIPTION	G	P	UNIT PRICE	AMOUNT
	8	Code 1	Au	3		8.000	64.00
	9	Code 1	Ag	3		7.250	65.25
	8	Code 1	Co	3		4.000	32.00
	11	Code 1	Cu	3		4.000	44.00
	1	Code 1	Pb	3		4.000	4.00
	8	Code 1	Pt-Pd	3		12.000	96.00
	1	Code 1	Pt	3		8.000	8.00
	1	Code 1	WRA Package	3		19.000	19.00
	12	Code 4	Sample Prep	3		3.000	36.00
			Cert #4W-1650-RA1				
			9-GST @ 7%				25.78

COMMENTS:

Net 30 Days

TOTAL

394.03

Assay 1994

Assays
1994

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

INVOICE

NO. 30728
DATE 08-31-94
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
8	1	Code 1	Ni	3		7.250	58.00
8	1	Code 1	Rh	3		8.000	64.00
			Cert #4W-1650-RA2				
			3-GST @ 7 %				8.54

Oct 10 1994
✓ #192 - \$130.54

COMMENTS
Net 30 Days

TOTAL

130.54

Swastika Laboratories
 P.O. Box 10
 Swastika, Ontario
 P0X 1T0

INVOICE

NO.: 31248
 DATE: 10-21-94
 PAGE: 1 of 1

SHIP TO:

Target Geological Services
 P O Box 271
 Cobalt, Ontario
 P0J1C0

*QD No. 1/14
 2447g
 Same
 Reference # 308*

GST Number: R132862640

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	G	P	UNIT PRICE	AMOUNT
4	1	Code	Au	3		8.000	32.00
7	1	Code	Co	3		7.250	50.75
7	1	Code	Cu	3		4.000	28.00
4	1	Code	Ni	3		4.000	16.00
4	1	Code	Pt Pd	3		12.000	48.00
3	1	Code	Pd	3		8.000	24.00
10	4	Code	Sample Prep Cert #4W-2450-RG1 3-GST @ 7 %	3		3.000	30.00
							16.01

COMMENTS:

Net 30 Days

TOTAL

244.76

Swastika Laboratories
 P.O. Box 271
 Swastika, Ontario
 POX 1T0

INVOICE

030
cheque
Nov 30/94
686.67

NC: 31350
 DATE: 11-03-94
 PAGE: 1 of 1

SHIP TO:

Same

SOLD TO:

Target Geological Services
 P O Box 271
 Cobalt, Ontario
 POJ1C0

GST Number: R132862640

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST %	UNIT PRICE	AMOUNT
			Au		8.000	104.00
			Cu		7.250	108.75
			Ag		4.000	24.00
			Co		4.000	52.00
			Mo		4.000	16.00
			Ni		4.000	52.00
			Zn		4.000	8.00
			Pt Pd		12.000	156.00
			Pd		4.000	4.00
			WRA Package		19.000	57.00
			Sample Prep		3.000	60.00
			Cert #4W-2644-RG1			
			3-GST @ 7 %			44.92

Net 30 Days

686.67

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

INVOICE

NO: 31404
 DATE: 11-07-94
 PAGE: 1 of 1

Nov 14/94
#131.34 #031
 SHIP TO: *charge*

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

Same

GST Number: R132862640

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	G	P	UNIT PRICE	AMOUNT
			Au	3		8.000	16.00
2	1	Code	Co	3		7.250	21.75
3	1	Code	Ag	3		4.000	8.00
2	1	Code	Cu	3		4.000	12.00
3	1	Code	Mo	3		4.000	8.00
2	1	Code	Ni	3		4.000	12.00
3	1	Code	Zn	3		4.000	4.00
1	1	Code	Pt Pd	3		12.000	24.00
2	1	Code	Pd	3		8.000	8.00
1	1	Code	Sample Prep	3		3.000	9.00
3	4	Code	Cert #4W-2642-RG1				
			3-GST @ 7 %				8.59

COMMENTS

Net 30 Days

TOTAL

131.34

Swastika Laboratories
P.O. Box 170
Swastika, Ontario

INVOICE

NC. 31431
DATE 11-08-94
PAGE 1 of 1

#246.10
Dr. J. G. ...
#033
Dec 10/94

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

GST Number: R132862640

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	G	P	UNIT PRICE	AMOUNT
	2	Code 1	Pt Group Elements	3		115.000	230.00
			Cert #4W-1650-RA3				16.10
			3-GST @ 7 %				
COMMENTS							TOTAL
Net 30 Days							246.10

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

Dec 10/94
cheque # 100
319.66

INVOICE

NO 31519
 DATE 11-15-94
 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
6	1	Code 1	Au	3		8.000	40.00
7	1	Code 1	Co	3		7.250	50.75
6	1	Code 1	Ag	3		4.000	20.00
6	1	Code 1	Cu	3		4.000	20.00
7	1	Code 1	Ni	3		4.000	28.00
5	1	Code 1	Zn	3		4.000	20.00
8	1	Code 1	Pt Pd	3		12.000	96.00
8	4	Code 4	Sample Prep Cert #4W-2766-RA1 3-GST @ 7 %	3		3.000	24.00
							20.91

COMMENTS

Net 30 Days

TOTAL

319.66

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

COPY

INVOICE

*Jan 5/95 cheque #004
 \$98.98*

IN 31656
 DATE 11-28-94
 PAGE 1 of 1

SOLD TO:

SHIP TO:

Target Geological Services
 P O Box 271
 Cobalt, Ontario
 POJ1C0

Same

GST Number: R132862640

Po #183

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	T	P	UNIT PRICE	AMOUNT
	2	Code 1	Au	3		8.000	16.00
	2	Code 1	Co	3		7.250	14.50
	2	Code 1	Ag	3		4.000	8.00
	2	Code 1	Cu	3		4.000	8.00
	2	Code 1	Ni	3		4.000	8.00
	2	Code 1	Zn	3		4.000	8.00
	2	Code 1	Pt Pd	3		12.000	24.00
	2	Code 4	Sample Prep	3		3.000	6.00
			Cert #4W-3000-RA1				
			3-GST @ 7 %				6.40

COMMENTS:

Net 30 Days

TOTAL

98.90

Swastika Laboratories
 Swastika, Ontario
 POK 1T0

INVOICE

INC 31839
 DATE 12-19-94
 PAGE 1 of 1

#025
 Copy of 156.77
 Dec. 22/94

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

GST Number: R132862640

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	G	P	UNIT PRICE	AMOUNT
	3	Code 1	Au	3		8.000	24.00
	3	Code 1	Co	3		7.250	21.75
	3	Code 1	Ag	3		4.000	12.00
	3	Code 1	Cu	3		4.000	12.00
	3	Code 1	Ni	3		4.000	12.00
	2	Code 1	Zn	3		4.000	8.00
Cert #4W-2644-RG2							6.28
3-GST @ 7 %							

96.03
 66.19
 29.84

COMMENTS		TOTAL	96.03
Net 30 Days			

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

INVOICE

NO 31838

DATE 12-19-94

PAGE 1 of 1

#025
Invoice
4156.72
Dec 22/94

SHIP TO:

Same

SOLD TO:

Target Geological Services
 P O Box 271
 Cobalt, Ontario
 POJ1C0

GST Number: R132862640

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	G	P	UNIT PRICE	AMOUNT
	4	Code 1	Co	3		7.250	29.00
	4	Code 1	Ni	3		4.000	16.00
	1	Code 1	Zn	3		4.000	4.00
	1	Code 1	Cert #4W-1613-RA2	3		7.250	7.25
			Ni				
			Cert #4W-2450-RG2				
			3-GST @ 7 %				3.94

COMMENTS:

Net 30 Days

TOTAL

60.19

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

COPY

INVOICE

IN 31868
 DATE 12-22-9
 PAGE 1 of 1

SEND TO:

Target Geological Services
 P O Box 271
 Cobalt, Ontario
 P0J1C0

SHIP TO:

Same

*Jan 15/95
 cheque #1102
 \$23.54*

GST Number: R132862640

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	Q	P	UNIT PRICE	TOTAL AMOUNT
	1	Code 1	WRA Package	3		19.000	19.00
	1	Code 4	Sample Prep	3		3.000	3.00
			Cert #4W-4159-RG1				
			3-GST @ 7 %				1.5
COMMENTS:						TOTAL	23.5
Net 30 Days							

Personal information collected on this form is obtained under the authority of the
this collection should be directed to the Provincial Manager, Mining Lands, MI
Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.



31M04NE0056 2.16185 BEST

900

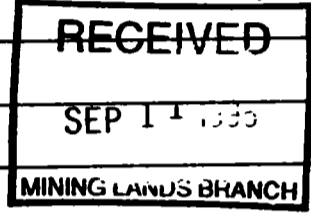
- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for re-Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the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

Lic. K21713

Recorded Holder(s) Gino Chitaroni		Client No. 117874
Address Portage Bay Rd, P.O. Box 271, Cobalt, Ont, P0J 1C0		Telephone No. 705-679-5946
Mining Division Sudbury	Township/Area Best Township	M or G Plan No. G-3409
Date Work Performed	From: May 1st, 1994	To: Dec 31st 1994

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	Geological Survey, Sampling/Assays + Report
<input type="checkbox"/> Physical Work, including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	



SECTION 18 ONLY

Total Assessment Work Claimed on the Attached Statement of Costs \$ **17,902.38**

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
Doug Robinson (author)	24 Victoria Rd., P.O. Box 344, Swastika, Ont., P0K 1T0
Gino Chitaroni (co-author)	Portage Bay Rd, Cobalt, Ont, P0J 1C0
Mark Bearsto	28 Earl St., Cobalt, Ont, P0J 1C0
Swastika Labs	P.O. Box 10, Swastika, Ont., P0K 1T0
Rod Bearsto	28 Earl St., Cobalt, Ont, P0J 1C0

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 Aug 22/95	Recorded Holder or Agent (Signature) Gino Chitaroni
--	--------------------------	---

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 Gino Chitaroni, Portage Bay Rd, P.O. Box 271 Cobalt, Ont, P0J 1C0	Date Aug 22/95	Certified By (Signature) Gino Chitaroni
Telephone No. 705-679-5946		

For Office Use Only

Total Value Cr. Recorded Applied 17,902.00	Date Recorded JUNE 19, 1995	Mining Recorder <i>[Signature]</i>	Received Stamp REC'D AUG 30 1995
	Deemed Approval Date SEPT. 17 1995	Date Approved <i>[Signature]</i>	
	Date Notice for Amendments Sent		A.M. 7:18 (9/10/95)

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
①	111 8498	1
②	111 8500	1
③	111 8502	1
④	111 8507	1
⑤	111 8557	2
⑥	111 8558	4
⑦	111 8561	1
⑧	111 8862	1
⑨	111 8863	1
⑩	111 8864	1
⑪	116 5505	1
⑫	116 5506	1
⑬	116 5507	6
⑭	116 5508	2
⑮	117 9077	1
⑯	117 9078	1
⑰	117 9079	1
Continued Total Number of Claims		27 units

Value of Assessment Work Done on this Claim	Value Applied to this Claim
\$1,400.00	\$0
\$0	\$400.00
\$0	\$400.00
\$0	\$400.00
\$0	\$3,200.00
\$0	\$3,200.00
\$0	\$1,600.00
\$2,000.00	\$0
\$600.00	\$0
\$2,000.00	\$0
\$3,000.00	\$400.00
\$0	\$400.00
\$1,000.00	\$0
\$800.00	\$0
\$702.38	\$0
\$800.00	\$0
\$2,000.00	\$0
Total Value Work Done	Total Value Work Applied
\$13,302.38	\$10,000.00

(Continued on Extra Page)

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
\$400.00	
\$0	
\$0	
\$0	
\$0	
\$0	
\$2,000.00	
\$600.00	
\$2,000.00	
\$2,600.00	
\$0	
\$1,000.00	
\$800.00	
\$702.38	
\$800.00	
\$2,000.00	
Total Assigned From	Total Reserve
\$12,902.38	\$0

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 <i>[Signature]</i>	Date Aug 22/95
---	---------------------------------	-------------------



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

W 9570.00086

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

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, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	\$1,560	
	Field Supervision Supervision sur le terrain	5,600	\$7,160
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Assays	2,737.33	
	Geological Survey	7,509.68	10,247.01
Supplies Used Fournitures utilisées	Type		
			0
Equipment Rental Location de matériel	Type		
			0
Total Direct Costs Total des coûts directs		\$17,407.01	

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 Montant	Totals Total global
Transportation Transport	Type		
	Car + 1/2 Ton Truck + Fuel/A. leuze	369.65	369.65
Food and Lodging Nourriture et hébergement	Food	125.72	125.72
Mobilization and Demobilization Mobilisation et démobilisation			0
Sub Total of Indirect Costs Total partiel des coûts indirects			495.37
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excedant pas 20 % des coûts directs)			495.37
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)			17,902.38

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	Evaluation 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 Gino Chitaroni Date Aug 23/95



Report of Work Conducted After Recording Claim

Mining Act

Transaction Number

W9570-00005

455m¹T. KiBraun

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, 150 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

- 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) <i>Gino Chitaroni</i>		Client No. <i>117874</i>
Address <i>Portage Bay Rd P.O. Box 271 Cobalt Ont P3J1C0</i>		Telephone No. <i>705-679-5946</i>
Mining Division <i>Sudbury</i>	Township/Area <i>Best Township</i>	M or G Plan No. <i>G-3409</i>
Dates Work Performed From: <i>May 1st / 94</i>		To: <i>Dec 31st / 94</i>

Lic. K21713

Work Performed (Check One Work Group Only)

Work Group	Type
<input type="checkbox"/> Geotechnical Survey	
<input checked="" type="checkbox"/> Physical Work, including Drilling	<i>Power Stripping</i>
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	SECTION 18 ONLY
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ *1,599.00*

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>James Luther Ex Ltd</i>	<i>P.O. Box 176, Niven St, N. Cobalt P3J1R0</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 <i>Aug 22/95</i>	Recorded Holder or Agent (Signature) <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 <i>Gino Chitaroni Portage Bay Rd P.O. Box 271 Cobalt Ont P3J1C0</i>		
Telephone No. <i>705-679-5946</i>	Date <i>Aug 22/95</i>	Certified By (Signature) <i>Gino Chitaroni</i>

For Office Use Only

Total Value Cr. Recorded <i>\$ 1,599</i>	Date Recorded <i>June 19/95</i>	Mining Recorder <i>[Signature]</i>	Received Stamp MINING DIV RECEIVED AUG 30 1995
	Deemed Approval Date <i>SEPT. 17/95</i>	Date Approved <i>Oct. 10/95</i>	
	Date Notice for Amendments Sent		

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

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

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

October 19, 1995

Our File: 2.16185
Transaction #: W9570.00086

Mining Recorder
Ministry of Northern Development & Mines
933 Ramsey Lake Road, 3rd Floor
Sudbury, Ontario
P3E 6B5

Dear Sir:

**Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS
S.1118498 ET AL IN BEST TOWNSHIP**

The deficiencies in the original submission have been rectified.

Assessment work credits have been approved as outlined on the attached Assessment Work Credit Form. The credits have been approved under Section 12, Geology, Mining Act Regulations.

The approval date is October 18, 1995.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5861.

Yours Sincerely,
ORIGINAL SIGNED BY:

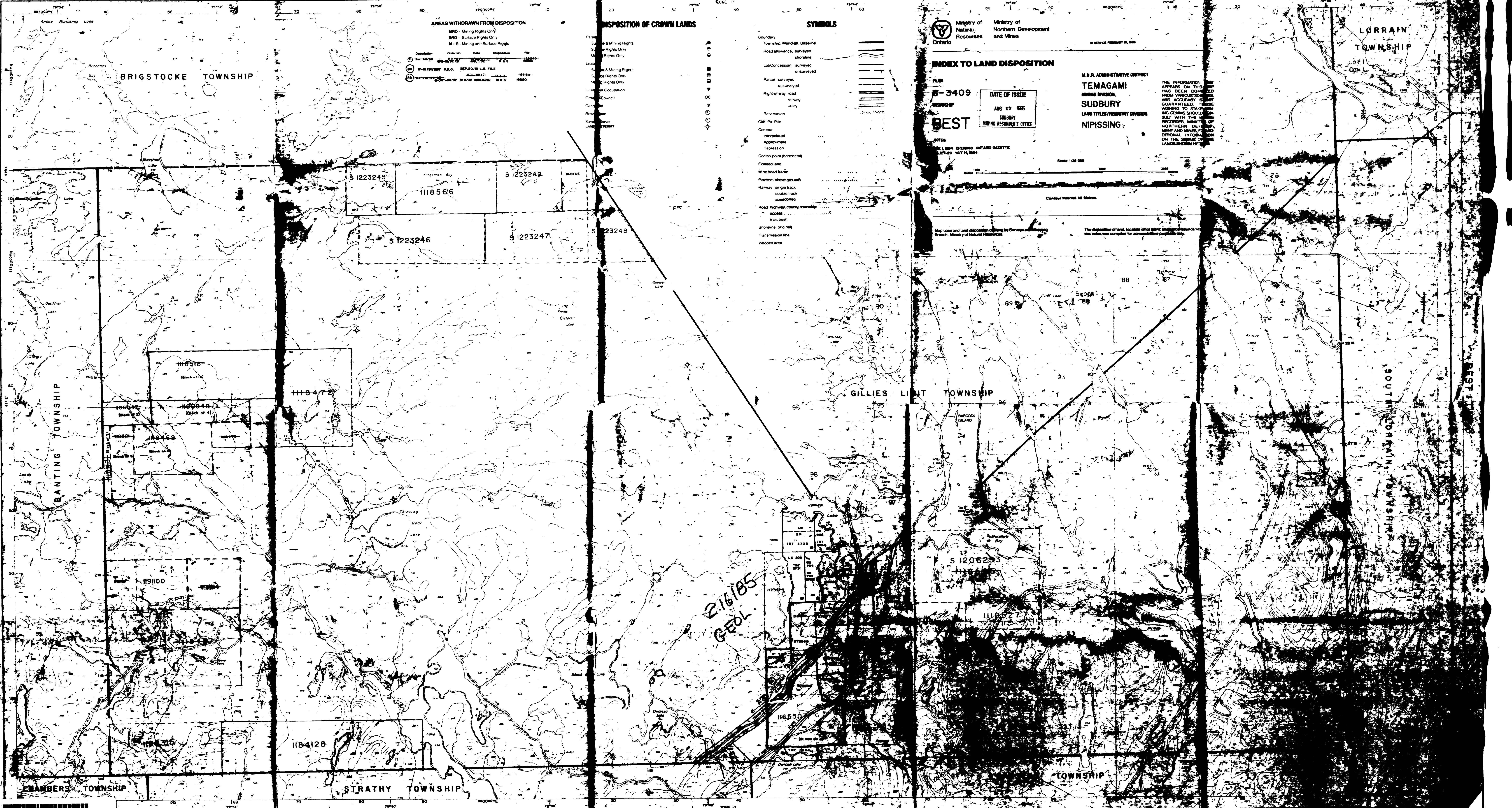


Ron C. Gashinski
Senior Manager, Mining Lands Section
Mining and Land Management Branch
Mines and Minerals Division



cc: Resident Geologist
Cobalt, Ontario

Assessment Files Library
Sudbury, Ontario



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-41/18187 S.R.O.	12772	1982	L.L. FILE	118566
W-41/18187 S.R.O.	12772	1982	L.L. FILE	118566
W-41/18187 S.R.O.	12772	1982	L.L. FILE	118566

DISPOSITION OF CROWN LANDS

- Parcel
- Survey & Mining Rights
- Surface Rights Only
- Mineral Rights Only
- Lease
- Survey & Mining Rights
- Surface Rights Only
- Mineral Rights Only
- Level of Occupation
- Order of Council
- Control
- Reservation
- Cliff Pile
- Contour
- Interpolated
- Approximate
- Depression
- Control point (horizontal)
- Flooded land
- Mine head frame
- Pipeline (above ground)
- Railway - single track
- double track
- electrified
- Road - highway, colony, township
- access
- trail, bush
- Shoreline (original)
- Transmission line
- Wooded area

SYMBOLS

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

Ministry of Natural Resources
 Ontario

Ministry of Northern Development and Mines

INDEX TO LAND DISPOSITION

PLAN
5-3409

DATE OF ISSUE
AUG 17 1985

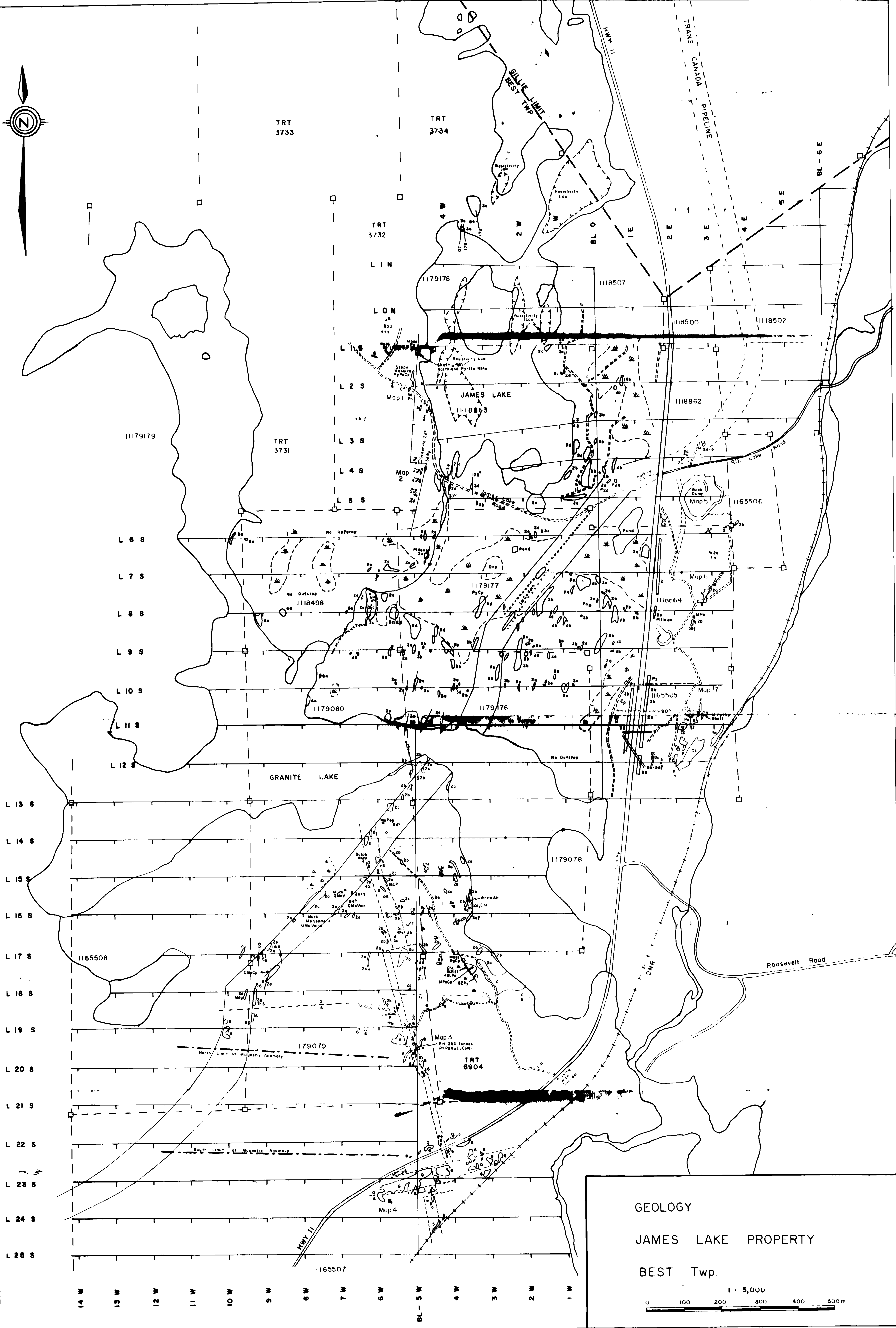
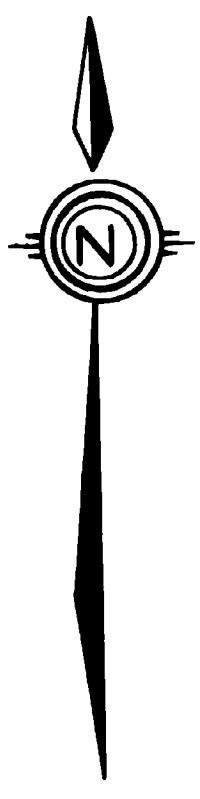
BEST
 MINING RECORDER'S OFFICE

M.N.R. ADMINISTRATIVE DISTRICT
TEMAGAMI
 MINING DIVISION
SUDBURY
 LAND TITLES/REGISTRY DIVISION
NIPISSING

THE INFORMATION APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THESE RIGHTS TO STATEMENTS SHOULD BE CONSULTED WITH THE RECORDS DIVISION OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE LANDS SHOWN HEREON.

Scale 1:25 000

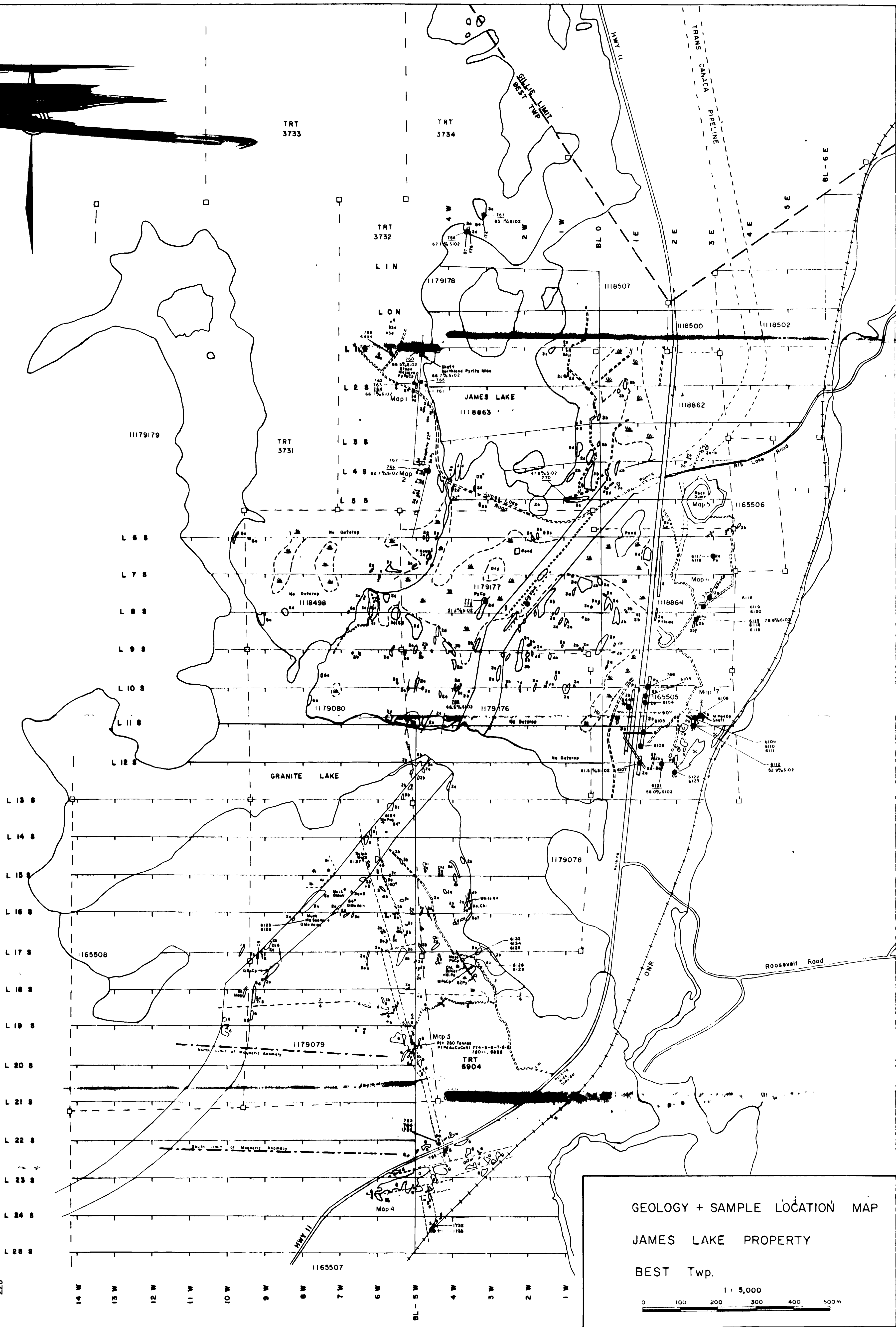
*216185
 GEOL.*



GEOLOGY
 JAMES LAKE PROPERTY
 BEST Twp.
 1:5,000
 0 100 200 300 400 500m

ARCHEAN	3 Felsic-Intermediate Volcanics	a fine grained	Q Quartz
9 Diabase	g dikes	b medium grained	
6 Granite	2 Mafic Volcanics	c coarse grained	
5 Mafic-Ultramafic Intrusives		d tuff-agglomerate	
4 Sediments			
e chert			
f sulphide rich beds			
massive sulphides			

2.16185



GEOLOGY + SAMPLE LOCATION MAP
 JAMES LAKE PROPERTY
 BEST Twp.
 1 : 5,000
 0 100 200 300 400 500m

<p>ARCHEAN</p> <ul style="list-style-type: none"> 9 Diabase 3 Granite 1 Mafic-Ultramafic Intrusives Sediments • chert † sulphide rich beds massive sulphides 	<ul style="list-style-type: none"> 3 Felsic-Intermediate Volcanics g dikes 2 Mafic Volcanics 	<ul style="list-style-type: none"> a fine grained b medium grained c coarse grained d tuff-agglomerate 	<ul style="list-style-type: none"> Q Quartz
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2.16185