GEOPHYSICS REPORT

ON THE

BENNY PROPERTY

NORTHEASTERN ONTARIO

FOR

INTERNATIONAL MINING TECHNOLOGIES LTD.

Dan Patrie.
Dan Patrie Exploration Ltd.
October 15, 1997

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INTRODUCTION

International Mining Technologies Ltd. acquired a group of unpatented mining claims in the Benny belt that is situated within the Sudbury basin, subprovince of the Canadian Shield. A geophysics programme was recommended by the property owners, and work began in June, 1997.

In summary the Benny Property has shown to have considerable merit and warrants further exploration work in order to evaluate its potential to host economic precious metal and base metal mineralization.

Dan Patrie Exploration Ltd. was requested by International Mining Technologies Ltd. to carry out a limited programme of line-cutting, and a mag survey to better define ore potential on their newly acquired claim group.

The following report summarizes the results of the work carried out during the current programme and the results obtained.

Respectively submitted,
Daniel F. Patrie
Geology and Geophysics Technologist
October 15, 1997

SUMMARY AND RECOMMENDATION

The Benny property is located in the District of Sudbury, Sudbury Mining Division, Ontario which consist of 14 unpatented contiguous mining claims located in Moncrief and Craig Townships.

The writer has been requested by International Mining Technologies Ltd., to do a geophysics program on the property. The following report summarizes the available information and recommends further work to evaluate the economic potential of the property. The writer supervised the work done.

In September, 1997 a mag, survey was done on a portion of the Benny grid. A total of 96.5 kilometres of line-cutting and mag were surveyed. The survey indicated linear areas of high magnetics which could host massive sulphides or precious metals.

The following report summarizes the results of the work done during the program.

Since there has been no detailed geological work during this program the interpretation is speculative.

It is recommended that the following program be carried out on the property to complete the evaluation.

1. Completion of grid lines spaced 50 metres over the claim group.
2. Geological mapping and prospecting to identify zones of mineralization.
3. Vertical or Horizontal Loop Surveys.
4. Pulse EM survey
5. Humus sampling over anomalous areas to better define drill targets.

Following completion of this work and contingent upon the results then additional work could be considered to further evaluate the economic potential of the property for base metal and gold mineralization.

Respectively submitted,

Daniel F. Patrie

Geology and Geophysics Technologist

October 15, 1997

ULSTER TOWNSHIP

Straight Lake

STRALAK

Copper Lake

Mg Loc

IS. 73469

Marion Lake

Present Lake

Benny Creek

Beaver Dams

C.P.R. R/W 100'

4.7 mile Lake

Benny Creek

CL51

CL55

BENNY

Rapids

Bannerman Rapids

Creek

CLM382

DE142

P-7210-2

10N L8E

12N BL

8N BL

9.5N BL

5N BL

15L

200

00 BL

S 1163726

S 1163728

S 1163730

S 1163731

S 1163732

S 1163727

S 1163729

734700 734701 681917 734532 734531 1042317 1042316 1042319 1042320 1042321 1042392 1042389 1042388 1042387 831410 994048 993570 1042946

1042461 1042363 1042355 1042354 1042323 1042322 1042337 1042338 1042340 1042345 1042391 1042390 1042378 830677 808984 808972 808971

1042462 1042362 1042356 1042324 1042342 1042344 1042371 1042372 1042367 1042368 808985 808983 808969 808970 993568

1042467 1042361 1042358 1042325 1042326 1042348 1042349 1042346 1042370 1042369 1013392 1013391 808987 994096 993569

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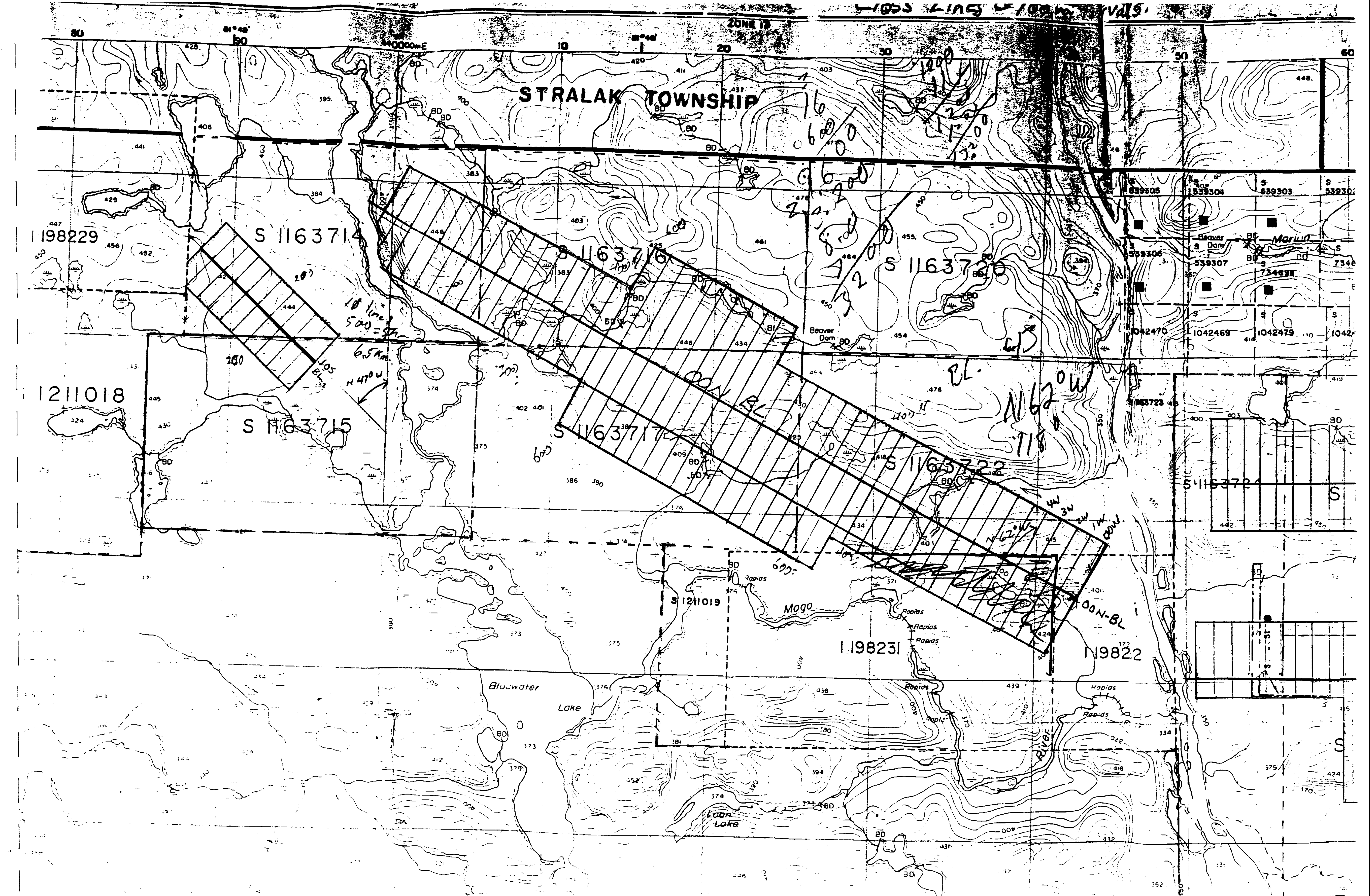
1042480 1042468 1042465 1042466

734699 734696

539301 539300



STRALAK TOWNSHIP
ZONE 17
S 1163714
S 1163715
S 1163716
S 1163717
S 1163720
S 1163722
S 1163724
1198229
1211018
S 1211019
1198231
119822
539305
539304
539303
539306
539307
734698
1042470
1042469
1042479
Beaver Dam
Marion
Mogo
Rapids
Bluewater
Lake
Loon Lake
River
00N BL
00N-BL
N 47° W
N 62° W
6.5 Km.

CLAIM DESCRIPTION

The property consists of 14 unpatented contiguous mining claims all in good standing located in the Benny area of Northeastern Ontario, situated in Moncrief and Craig Townships.

Table 1

Benny Property, Sudbury Mining Division

Claim Description

Mining Claim	Number of Units
1163714	
1163715	
1163716	
1163717	
1163720	
1163722	
1163726	
1163727	
1163728	
1163729	
1163730	
1163731	
1163732	
1163712	
Total 14 claims	

LOCATION AND ACCESS

The property is located approximately 75 km north of Sudbury, Ontario (Figure 1) in the Sudbury Mining Division, District of Sudbury.

The claim group lies in Moncrief and Craig Townships. Access to the property is from the town of Benny, 400 meters by ATV to the east end of the grid.

INSTRUMENTATION AND WORK DONE

The total field magnetometer survey was carried out using an EDA OMNI PLUS magnetometer/VLF unit and an OMNI base station magnetometer. These are total field magnetometers which measure the magnetic field through the use of proton processional effects caused by the interactive of a magnetic field with a spin-aligned-rich fluid. An instrument accuracy precision and resolution of 0.5 nT may be obtained with these instruments under ideal conditions. Microprocessors contained in these instruments allow for the collection of the readings along with the time and its position in digital form suitable for transfer to portable computers.

The total magnetic field was measured at 25 metre intervals along all grid lines. The total field measurements were concurrently recorded at 30 second intervals by the base station magnetometer which was located on grid. All field measurements were corrected for diurnal variations of the earth's magnetic field by direct subtraction of the base station readings taken at the same time .The corrected magnetic data has been plotted, contoured and is presented in the total field magnetometer plot. A total of 96.5 kilometres of magnetics was read. The data was plotted and present in the back of report. All data was stored on diskette in Geosoft files.

CRAIG

TONCRIEFF

Mogo Lake

Kennedy Lake

Bluewater Lake

Loan Lake

Marguerite Lake

Duck Lake

Capper Lake

Marion Lake

Mogo River

Mogo Fault

Spanish River

Benny Fault

Benny Creek

Bannerman Rapids

Pits
Zn,Pb,Cu,Ag
py,po,sp,gn,cp

Magnetite veins

16c dikes

MONCRIEFF

HART

Bannerman Fault

Bannerman Lake

Bannerman Creek

South Bannerman Fault

Rapids

Dowes Lake

Geneva Lake

Geneva Creek

Loon Lake

Moon L.

Johnson Lake

Alaska's Lake

Mud Lake

Hess Creek

Lot 12

11

Sand and gravel pit

Pit

Boulders—massive po,py

Pit py,po

Sand and gravel pits

Magnetite veins

Massive magnetite Fe,Cu

Cartier

Division Lake

Northeast Lake

Pumphouse Creek

Syncline

Zn Pits

S66018

S66022

S20518

S8193

S8190

S36117

Sheared

16c dikes

16b dikes

16c,b dikes

16b,c dikes

16b,a dikes

16 dikes

144

81°35'

Published 1980

GEOLOGY

The Benny-map area is located in the southern part of the Superior Province of the Canadian Shield north of the main contact between the Early Precambrian rocks of the Superior Province and the Middle Precambrian rocks of the Southern Province (Stockwell et al. 1970).

The rocks in the map-area are of Precambrian age and include: an Early Precambrian metavolcanic-medasentimentary sequence; Early Precambrian felsic plutonic and migmatitic rocks; Early Precambrian mafic intrusions; Middle Precambrian metasediments of the Huronian Supergroup; Middle Precambrian mafic intrusions; The Nipissing Diabase; and Late Precambrian diabase dikes. There is a mafic dike that probably represents the extension of the Foy Offset, one of the dikes projecting out from the Sudbury Nickel Irruptive. Also, there are numerous lamprophyre and breccia dikes.

The area was affected by deformation, regional metamorphism, and felsic plutonism during the Early Precambrian Kenoran Orogeny some 2500 my or more ago. In the early part of the Middle Precambrian, renewed tectonic activity led to crustal foundering and deposition of Early Precambrian supracrustal rocks of the Huronian Supergroup probably in localized, fault controlled basins. The Huronian rocks were subsequently folded, faulted, mildly metamorphosed, and intruded by Nipissing Diabase bodies during the Middle Precambrian. Later events included: i) the formation of breccias, most were probably connected with the Middle
precambrian "Sudbury Event", which was either produced by explosive volcanism or meteorite impact; and ii) emplacement of northwest-trending diabase dikes of the Sudbury Swarm.

Zinc, lead, and copper sulphide mineralization of probable volcanic exhalative origin occurs in the Early Precambrian metavolcanic sequence. Replacement type deposits of magnetite, heratite, sphalerite, galena, and chalocopyrite occur in the Huronian rocks, primarily in carbonate rich rocks of the Espanola Formation. Minor amoounts of Uranium are present in the Early Precambrian rocks at several localities.

The bedrock is partly mantled by unconsolidated sadn, gravel, and clay, the deposits of the Pleistocene continental glaciation

ECONOMIC GEOLOGY

Exploration has been carried out in the map-area for zinc, lead, copper, nickel, iron, silver, gold, and uranium. Stratabound and vein-type deposits containing base-metal sulphides occur at a number of locations in the Benny metavolcanic-metasedimentary sequence. The major known deposit, the Geneva Lake Mine, Hess Township, was discovered by John Collins in 1924, and from 1941 to 1944 produced some 4 717 000 kg (10 400 000 lbs) of zinc, and 1632 900 kg (3 600 000 lbs) of lead, and silver valued at $28 416. The present property owners, Geneva Metals Incorporated, have continued to explore the property in recent years. Other sulphide occurences in the metavolcanic-metasedimentary sequence, notably the following properties once known collectively as the "Stralak Deposit", H. Barry (Stralak Deposit East) (2) and Confederation Mining Corporation Ltd.,(Stralk Deposits) (4) in Craig Township, have been tested periodically by trenching, diamond drilling, and geological and geophysical surveys. An airbourne electromagnetic survey covering much of the Benny Belt was conducted by Tex Sol Limited in 1972. Ground checking, including geophysical and geochemical surveys of anomalies outlined by the airborne survey was carried out by Chevron Standard Limited in subsequent years. Replacement-type deposits consisting of variable proportions and combinations of magnetite, sphalerite, chalcopyrite, pyrite, and galena occur in the Huronian sequence, particularily in calcareous rocks rocks of the Espanola Formation at or near contacts with Nipissing Diabase intrusions. Magnetite occurences in southwestern Hess Township and southern Munster Township, and base-metal sulphides in Hart township have been tested by surface exploration, diamond drilling, and geophysical surveys. During the course of mapping perfromed by the survey party disseminated pyrite, chalocopyrite, sphalerite, and galena were discovered in calcareous rocks of the Espanola Formation in central Hess Township.

A mafic dike containing nickel-copper sulphide mineraliztion in east-central Hess township was tested by diamond drilling which was done by the Candian Nickel Company in 1966 to 1967. This dike probably represents the westward extension of the Foy Offset, a dike-like offshoot from the Sudbury Nickel Irruptive.

Exploration for uranium has been carried out in the area in the 1950s and late 1960s.

Exploration was concentrated mainly on the lower part of the Huronian sequence, but recently Hollinger Mines Ltd., discoverd minor amounts in Uranium in the Early Precambrian granitic rocks in Moncrieff Township. A sample of country rock composed of metavolcanic and granitc material taken during the present survey from the Geneva Lake Mine dump yeilded 0.032 percent U3O8 upon assay by the Geoscience Laboratories, Ontario Geological Survey.

Minor amounts of molybdenite and flourite are present in Early Precambrian granitic rocks in Moncrieff and Hess Townships.

Extensive sand and gravel accumulations, glacial moraine and outwash deposits, occur throughout the area, especially around Cartier. These deposits have been used for local road construction.

INTERPRETATION

There is a high linear magnetic anomaly running the length of the grid from west to east on the north and south half of the property coming together at the east which could suggest a fold.

The magnetic signature of the property is relatively uniform in the range of 59,300 nt. An elevated magnetic signature trending east-west in the centre of the grid merits more work.

The results of the survey are considered to be encouraging and in view of the potential of this property and lack of full coverage of this survey, the rest of the claim group be surveyed is recommended.

RECOMMENDED EXPLORATION PROGRAM

The following program is recommended to evaluate the property for its potential to host a base metal and or precious metal deposit.

1. Complete the line cutting as required to provide a control for geological, geochemical and geophysical work.

2. Geochemical sampling over target areas before drilling to establish better drill targets.

3. Completion of ground magnetometer.

4. Detailed HLEM or VLEM over selected areas.

5. Pulse-EM survey.

5. Geological mapping and sampling over all of property.

6. Stripping, trenching and sampling targets with potential interest.

As a result of the encouraging results obtained from the recently completed geophysics survey, additional exploration on the property has been recommended.

Daniel F. Patrie
Geology and Geophysics Technologist
October 15, 1997

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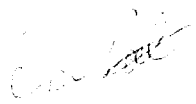

Daniel F. Patrie
Geology and Geophysics Technologist
October 15, 1997

PERSONNEL

1. Dan Patrie
   Massey, Ontario

2. Brent Patrie
   Walford, Ontario

3. Bryan Patrie
   Spanish, Ontario

4. Marcel Lamothe
   Massey, Ontario

5. Charles Laundriault
   Walford, Ontario

6. Tim Kelly
   Spanish, Ontario

7. Peter Francis
   Massey, Ontario

8. Arron Andress
   Massey, Ontario

REFERENCES

1. Bell Robert

   1893: Report on the Sudbury Mining District; Geological Survey of Canada, Annual Report, Volume 5, Part F, 1891, p. 1-5

2. Beswick, A.E., and Soucie, G.

   1976: A correction Procedure for Metasomatism in an Archean Greenstone belt; Paper Given at an International Geological Congress, Sydney, Australia.

3. Card, K.D., and Innes, D.G.

   1976a: Benny area, Gilbert-Bluewater Lakes Sheet, District of Sudbury; Ontario Division of Mines, Preliminary map P. 1106, Geological Series, scale 1:15 840 or 1 inch to 1/4 mile. Geology 1973, 1974.

   1976b: Benny area, Charcoal Lake Sheet, District of Sudbury; Ontario Division of Mines, Preliminary Map P.1109, Geological Series, scale 1:15 840 or 1 inch to 1/4 mile.Geology 1973, 1974.

   1976f: Benny area, Cartier-Carhess Lake Sheet, District of Sudbury; Ontario Division of Mines, Preliminary Map P.1111, Geological Series, scale 1:15 840 or 1 inch to 1/4 mile. Geology 1973, 1974.

4. Card, K.D., and Lumbers, S.B.

   1977: Sudbury Cobalt Sheet, Algoma, Manitoulin, Nipissing, Parry Sound, Sudbury and Timiskaming Districts; Ontario Geological Survey, Map 2361, scale 1:253 440 or 1 inch to 4 miles. Revised Geological Compilation 1974-1975.

5. Card, K.D., and Meyn, H.D.

   1969: Geology of the Leinster-Bowell Area, District of Sudbury; Ontario Department of Mines, GR65, 40p. Accompanied by maps 2132,2133,and 2134, scale 1 inch to 1/4 mile.

CERTIFICATE OF QUALIFICATION

I, Daniel F. Patrie do hereby certify:

1. that I am a geology and geophysics technologist and reside at 190, Hwy. 17 West, Massey, Ontario, Canada, P.O. Box 45, P0P 1P0,

2. that I graduated from Cambrian College of Applied Arts and Technology in 1987 with a Diploma in Geological Technology with a one-year certificate in Geophysics,

3. that I have practised my profession continuously since that time and prior to that since 1972, I have been an active prospector,

4. that this report is based on a personnel review of Provincial, federal and some assessment reports as well as interpretation of field observations undertaken on the Benny Property, Craig and Moncrief Townships, Sudbury Mining Division, Ontario and was present on the property throughout the program,

Daniel F. Patrie
Geology and Geophysics Technologist
October 16, 1997

LETTER OF CONSENT

I, Daniel F. Patrie, of Massey, Ontario, do hereby consent to International Mining Technologies Ltd. using in whole or in part my report on the Benny Property in a prospectus or statement of material facts or for filing with government regulatory bodies as is deemed necessary.

Dated at Massey, Ontario, on October, 15, 1997 in the District of Sudbury.

Daniel F. Patrie

Geology and Geophysics Technologist

MINING TECHNOLOGIES INTERNATIONAL

Geological Report on The Benny Project

January 16, 1998

by Frank Racicot
Walter Hanych

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Location and Access

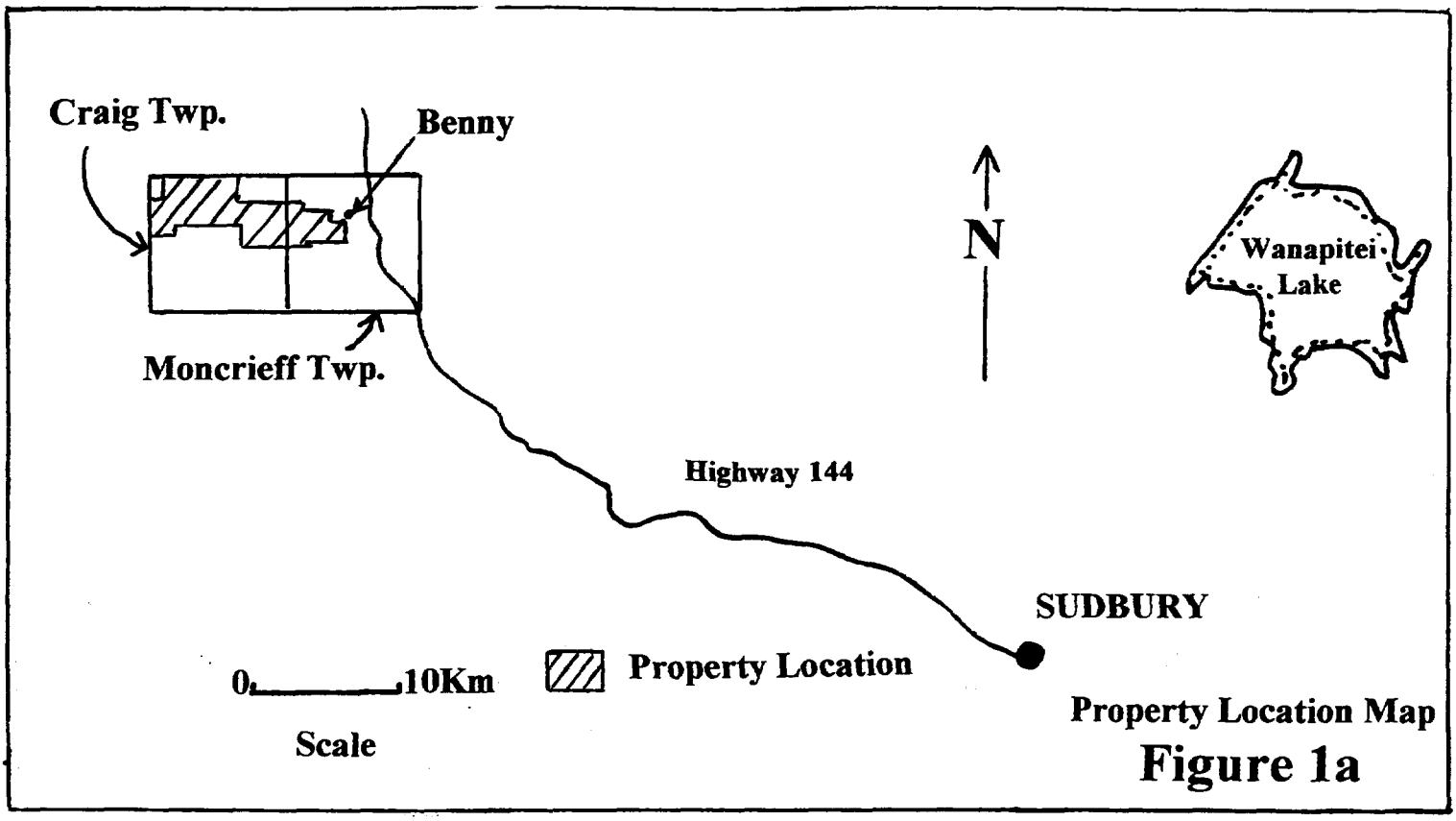
The centre of the map area is about 64 km. northwest of Sudbury, Ontario. The claim group is reached by proceeding north from Sudbury on Highway 144 to the Benny turn off, which is itself located about 7.5 kilometers north of Cartier. The town of Benny is about two kilometers west of Highway 144. The east boundary of the grid is reached by crossing the tracks at Benny and proceeding northwest along a gravel road for several hundred metres until there is a fork in the road. The north (right) road crosses line 3+00E, the most easterly extension of the grid. The west (left) fork of the road cuts across the easterly section of the grid and then slowly angles southwest away from the grid until it reaches the Spanish River. The most westerly portions of the grid (north and south baselines), can be reached by an ATV trail and various walking trails that join the north and south grids. Alternatively, the ATV trail can be followed to the Spanish River. After proceeding north along the Spanish River two separate walking trails can be followed from the river to the grid.

Property Description

The entire property consists of 19 contiguous claims in two adjoining townships. The following table summarizes the claim information.

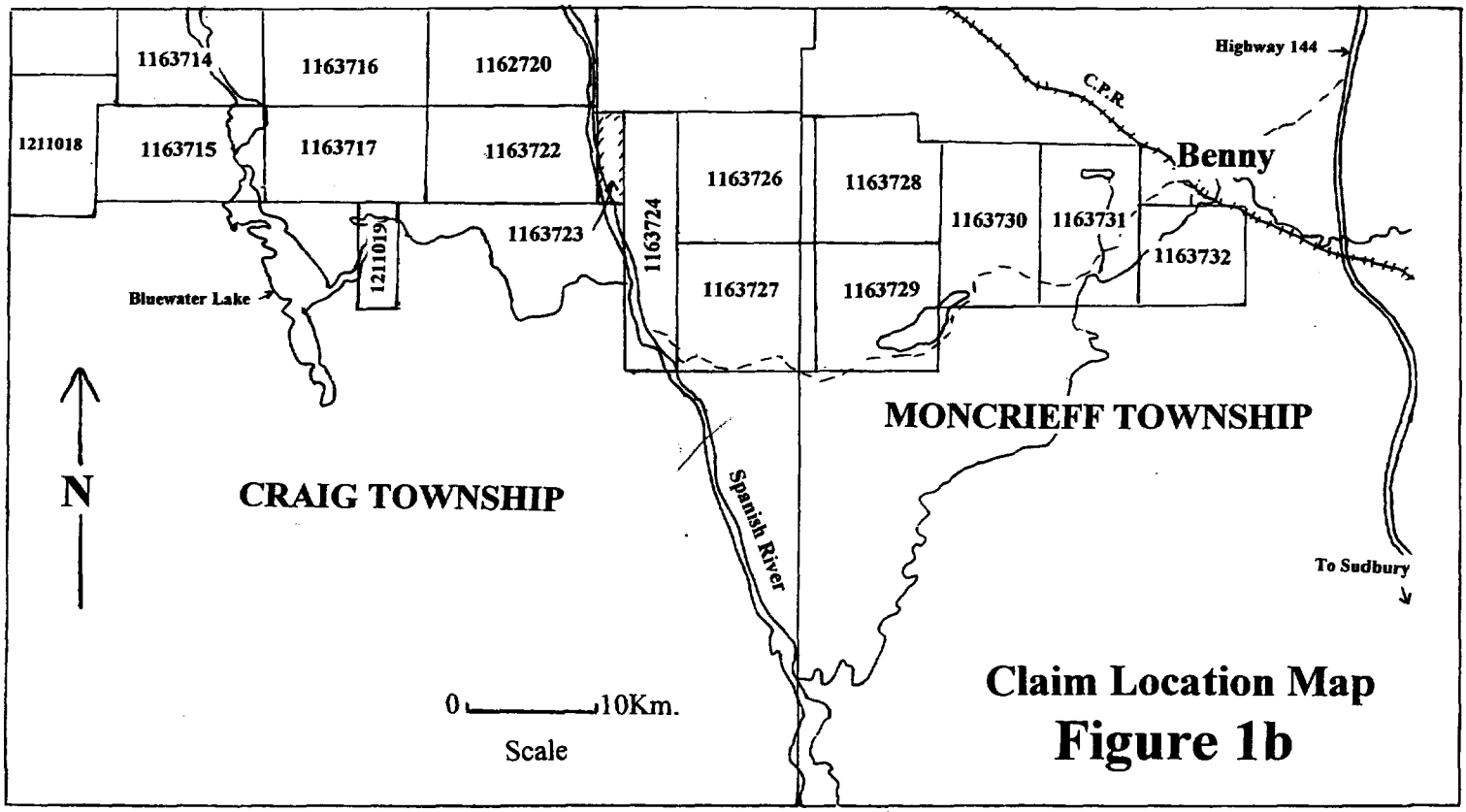
Claim No	Township	Units	Claim No.	Township	Units
1163731	Moncrieff	15	1163722	Craig	15
1163730	Moncrieff	15	1162720	Craig	15
1163729	Moncrieff	16	1163717	Craig	15
1163728	Moncrieff	15	1163716	Craig	15
1163727	Moncrieff & Craig	16	1163715	Craig	15
1163726	Moncrieff & Craig	16	1163714	Craig	15
1163724	Craig	16	1211018	Craig	9
1163723	Craig	3	1163732	Moncrieff	9
1211019	Moncrieff	9			

Total Units 220



Property Location Map

Figure 1a



Claim Location Map

Figure 1b

The claims are held by the following:

Ron Suomu		Robert (Bob) Lipic
Walden Wood Rd.	and	P.O. Box 2097
Whitefish Ont.		Postal Stn. "A"
P0M2E0		Sudbury Ont.
		P3A4R8

Previous Exploration Work

The Stralak Zn-Pb-Ag-Cu deposit located about 2 kilometers north of the claim group, was discovered in the mid 1890's after the construction of the CPR transcontinental line. Various exploration programs eventually delineated 364,000 tons containing 3.18% zinc, 0.32% copper and 0.68% ounces silver per ton. The former Geneva Lake mine was discovered in 1924 in Hess Township, about 10 kilometers to the east. From 1941 to 1944 some 10,400,000 lbs. of zinc, 3,600,000 lbs. of lead and $28,416 of silver were mined.

Much of the ground work that was carried out in the Benny Greenstone belt centered around easily detected pyrrhotite-pyrite-graphite zones using established magnetic and electromagnetic geophysical techniques.

In the early 1950's, G. Elliot and Oakridge Mining Corp. performed some geological work on a small area in the centre of the current grid near the western boundary of Moncrieff Township. Apparently Oakridge did some limited drilling near the western boundary of Moncrieff Township but the results were inconclusive and not filed. In the late 1950's Mine Ore Mines Ltd. performed some ground geophysics with follow up trenching and drilling in sulphide-bearing sediments. Also in the late 1950's, Consolidated Bellekeno Mines Ltd. performed some ground EM and magnetometer surveys with follow-up drilling in the eastern portion of the claim block

in Moncrieff Township. They met with limited success.

In 1968, the Canadian Nickel Co. Ltd, (Inco), reported drilling one 173 foot hole west of the Spanish River in Craig Township. 1This hole is west of the current geological grid.

In the early 1970's Tex-Sol Explorations Ltd. Conducted an airborne electromagnetic survey that covered most of the Benny Belt. This survey revealed a number of linear and single intercept anomalies 1 to 6 kilometers in length. Card and Innes, (GR Report 206), were of the opinion that most of these anomalies were attributable to pyrite and pyrrhotite. In the mid 1970's Tex-Sol and Chevron Standard Ltd. performed various ground magnetometer and EM surveys, as well as geological mapping and some geochemical surveys.

Regional Geology

The Benny Belt is a preserved remnant of a formerly much larger supracrustal sequence of metavolcanics metasediments. This greenstone belt generally trends east-west, has an average width of approximately 2 km, a maximum width of 4.8 km and is more than 38 km long. In the eastern part of the belt, the rocks are highly metamorphosed and pass gradationally into migmatitic rocks consisting of variable proportions of granitic material and remnants of altered metavolcanics. In the east section of the Benny belt, migmatic rocks similar to those previously described, are located along the northern margin of the western portion of the belt.

This greenstone belt is bordered on the north and south by early Precambrian granitic rocks, older foliated migmatic gneissic and plutonic rocks (granodiorite-trondhjemite) and younger massive quartz monzonite plutons. These younger massive plutons clearly intrude the metavolcanics and are much more common in the eastern part of the belt. The contacts between the metavolcanics and the foliated older plutonic rocks are generally sheared. At two localities, one in northwestern Craig Township west of the Spanish River (about 0.8 km east of Bluewater Lake), and the other in southwestern Ulster Township, north of Stralak, the contact between the metavolcanics may represent an unconformity. A unit of coarse clastic debris 3 to 5 m thick, lies between the granitic rocks and the metavolcanics. This clastic debris consists of angular to rounded grains of quartz feldspars with some carbonate. Apparently this material was derived

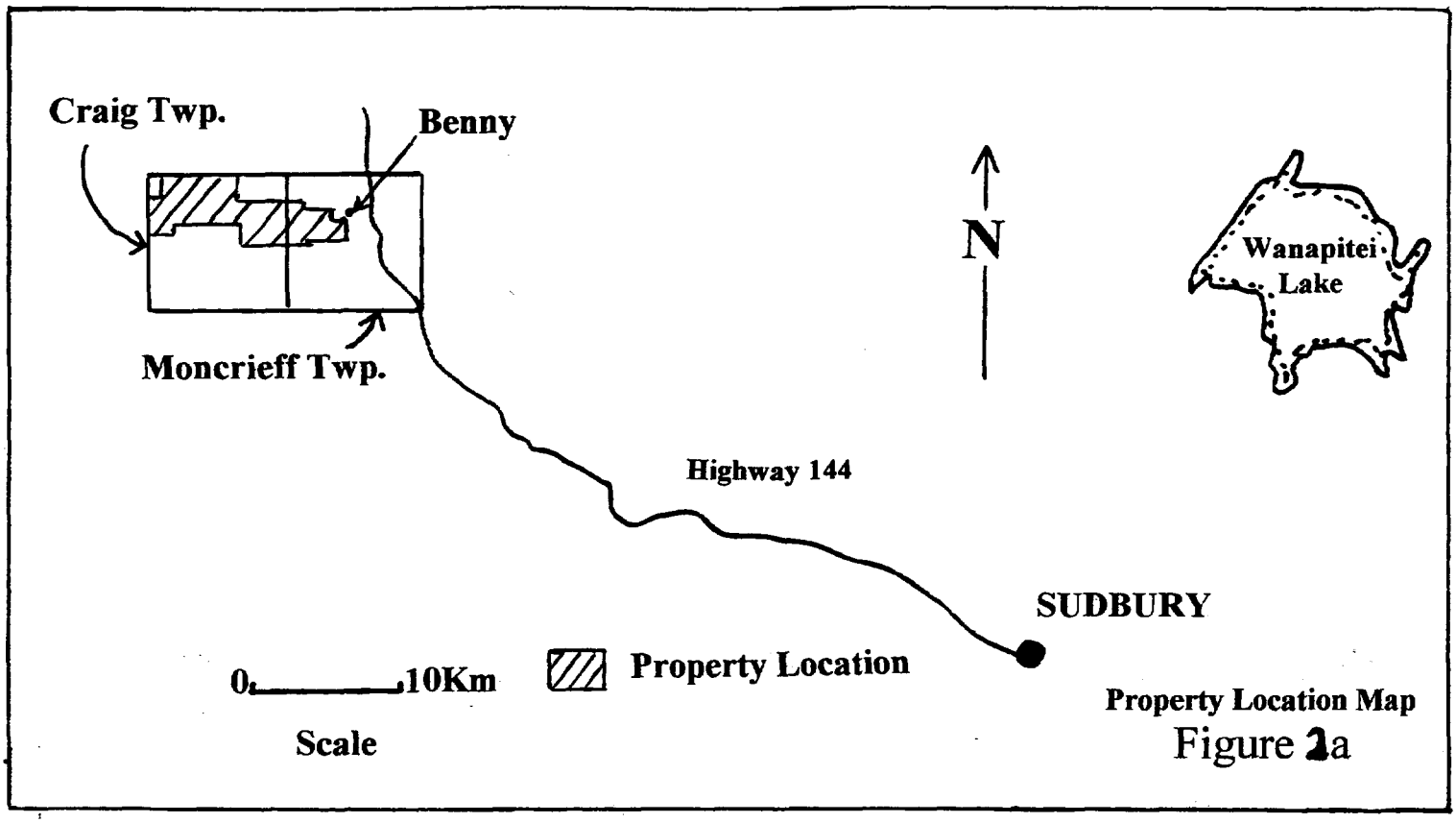
from the weathering of adjacent granitic rocks prior to the decomposition of the foliated granitic rocks at these locations and may represent the original Paleo-basement. An alternative interpretation according to Card and Inns (1981), is that these clastic units represent some type of breccia.

At many localities, especially in northeastern Moncrieff Township, the metavolcanics of the Benny Belt are unconformably overlain by Huronian sediments. In most localities however, there is a fault-contact between the Huronian sediments and the metavolcanic rocks. The metavolcanic and metasedimentary rocks of the Benny Belt form an east-west striking homoclinal sequence, that according to Card and Inns (1981 pg. 8), faces south. According to Guthrie (1981), in an MSc. thesis entitled "Volcanic Stratigraphy of The Geneva Lake Greenstone Belt", this homoclinal sequence dips north. It is probably more complex and does both.

The Benny greenstone belt is composed of mafic, intermediate and felsic flows as well as volcanoclastic rocks ranging from pyroclastic breccias to ash tuffs and tuffaceous sediments. Most of the metasediments are interstitial with tuffs and were locally derived. This, along with the metamorphism and intense deformation has made it very difficult to distinguish between the metasediments and tuffaceous rocks.

The metavolcanic-metasedimentary sequence does display some distinctive lithological facies variations. The western part of the belt consists mainly of tholeiitic and calc-alkaline metabasalt flows with several extensive Early Precambrian gabbroic intrusions. The eastern part of the belt consists mainly of coarse pyroclastic rocks, tuff-breccia, and lapilli-tuff of calc-alkaline andesite to rhyolite composition. In the centre of the belt there a number of cyclically repeated calc-alkaline and minor thoeliitic mafic units with thin intercalations of sulphide-bearing metavolcanics and tuffs. The sulphide-bearing tuffaceous sediments typically occur at the contact between mafic metavolcanics composed of flows and pyroclastics and felsic to intermediate units consisting mainly of pyroclastic rocks.

According to Card and Inns there are 6 to 8 cycles ranging in thickness from 150m to over 300m in the central part of the Benny Belt. Guthrie had defined 11 volcanic formations, of which the



Property Location Map
Figure 1a

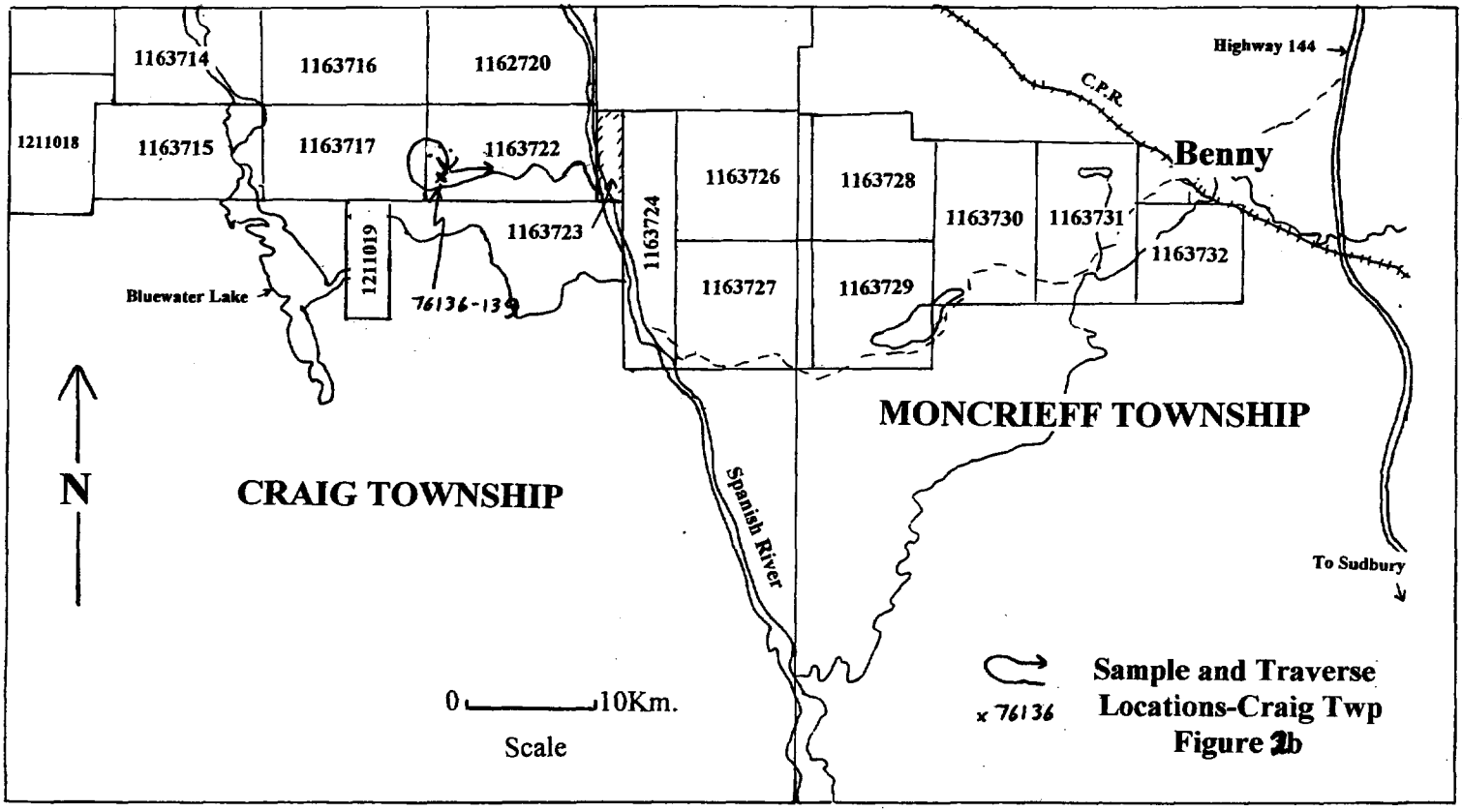


Figure 1b

'lower' 9 were calc-alkaline and the upper two were thoelitic. The belt has two main massive sulphide deposits. The Geneva Lake mine, a former producer of zinc, lead and silver is situated in the east; the other is the Stralak deposit, a sub-economic pyritic zinc deposit located about 2 kilometers north of the claim block.

The Benny Belt and surrounding granitic supracrustal rocks also have numerous northwest trending metagabbro dykes, many of which have been mapped and located on the western portion of the grid. Guthrie also describes west to northwest trending dykes of olivine (and pyroxene} diabase, rare lamprophyre dykes and breccias which contain lamprophyric fragments in a biotite and magnetite-rich ground mass and numerous 'Sudbury-type breccias'.

Guthrie concludes that the Geneva Lake (Benny) greenstone belt is a "cross section through the flanks of a shield volcano which was the focus of explosive eruptions." Following the main explosive events was a caldera collapse, turbidic and exhalitive sedimentation and lava extrusion on the sea floor with additional volcanic explosive eruptions along fissures.

Property Geology

Introduction

The area covered by the geological mapping was completed by establishing two parallel baselines with cross lines cut every 100 m. The south baseline extended for 6000 metres from line 8E (east) to line 52W (west). From line 18W to line 52W, this baseline drifted about 300 m. to the north and was drawn accordingly on the geology map. The northern baseline was cut from line 0+00 at 8N (north) to 26W. A parallel baseline was cut from 21W to 52W. The geology of the mapped area will be discussed from east to west. The eastern section where the cross lines extend across the south and north grids will be discussed initially. Then the south grid will be discussed followed by a discussion of the overall geology of the north grid. The sulphide mineralization will be discussed along with sampling and assay results in a separate section..

The following is a general description of the main rock types that were mapped in the field.

Basalts, Andesites and Tuffs

Mafic and andesite flows and pyroclastic rocks are the most abundant rocks in the map area. In general, metamorphism and deformation have usually obliterated the contacts between individual flows, making it impossible to estimate their thickness. It was also usually impossible to determine the flow tops by recognizing any pillow tops or other textures in the field. In a few places where a contact had been noticed, a second contact couldn't be found. The basalts and andesites are usually massive and frequently porphyritic- although they are amygdaloidal in places. The basalts are dark grey, greenish black or black and are normally darker compared to the andesites. At times it was a judgement call in the field to distinguish between basalt and andesite.

The mafic (basalt and andesite) pyroclastics were much more stratified, indicating that they were water lain.Stratification was defined by variations in fragment size, degree of flattening, etc. In a few places the tuffs were excessively deformed, so much so that the rocks resembled a gneiss. This was especially evident near lines 7W and 8W at 2+00N. Frequently the pyroclastics had a knobby texture, with hard, ragged poikiloblasts (?) protruding from a softer recessive matrix; in some places a fragmental texture was observed.

Rusty Tuffs and Metasediments

The rusty tuff is somewhat similar to the andesitic tuff, except for the fact that it contains more sulphides (hence the rust) and is more likely to be associated with some sort of sediment. In fact many of these rusty tuffs may in fact be metasediments. These tuffs are very striated and usually thinly laminated. In places the tuff is associated with fine grained greywacke. In a few places it is associated with a very dark, graphitic argillite with disseminated sulphides. In other places there is a granitic conglomerate associated with this unit. This conglomerate will be described in a later section. This rusty tuff commonly contains stratabound, stratiform concentrations of sulphides, mainly pyrrhotite and pyrite. These sulphides are frequently intimately associated with fine grained, siliceous exhalitive units. Some of these siliceous unit are fine grained, greenish and laminated, while other siliceous units are grey or white.

Felsic Metavolcanics

Rhyolite and dacite are for the most part intercalated with the intermediate and mafic

metavolcanics and metasediments. Throughout the Benny Belt and in the project area, these felsic volcanic rocks form the upper part of the volcanic cycle. The felsic volcanic rocks are fine grained, light grey and cream to white in colour.

Mafic Intrusive Rocks

There are numerous northwest trending gabbro and ultramafic dikes in the area. They are dark grey to black and generally medium-to-coarse-grained. For the most part they are non-magnetic, with the exception of one or two. Some of these dikes where they are concordant to the volcanic stratigraphy may be related to the metavolcanics and may represent synvolcanic intrusives, but for the most part, they clearly cross-cut the stratigraphy and are the result of tensional tectonics.

Table of Formations

The following rock units were recognized and used to establish a gross lithological base. In its simplest form this classification provided the means by which rock units were correlated in the field.

Gabbro/ultramafic	Unit 11
Quartz monzonite	Unit 10
Conglomerate	Unit 9
Greywacke-sediments	Unit 8
Exhalite	Unit 7
Rusty tuffaceous sediment	Unit 6
Rhyolite flow	Unit 5
Dacite flow	Unit 4
Andesite tuff	Unit 3
Andeite flow	Unit 2
Basalt flow	Unit 1

Economic Geology

The eastern portions of both the north and south grids contain the simplest geology which may in part be due to a lack of outcrop exposure. There appears to be two cycles of limited felsic volcanics with minor rusty tuffs and sediments associated with each cycle.

The rusty tuffaceous sediments served as a marker horizon and form a semi continuous unit on both the north and south grids. Sulphides are ubiquitously distributed within this unit and where exhalite sediments occur the sulphide content increases. This unit is thickest (up to 200 meters) at the west end of the south grid and intimately associated with a pronounced thickening of a felsic volcanic pile. The greatest thickening of the rusty tuff appears to occur along the flanks of the felsic volcanics. Sulphides are ubiquitously distributed within this unit and exhalite sediments occur the sulphide content increases. This unit is thickest (up to 200 meters) at the west end of the grid and intimately associated with a pronounced thickening of a felsic volcanic pile. The greatest thickening of the rusty tuff appears to occur along the flanks of the felsic volcanics.

. Associated with this rusty tuffaceous unit in the western part of the south grid are three unusual outcrops of rounded granitic pebbles and cobbles in some sort of gritty, argillaceous matrix. These outcrops occur near lines 39W, 41W and 42W. They are very similar to the conglomeratic unit situated on line 8E.

Located south of this tuffaceous metasedimentary unit from at least 37W to 47W is a thick section of rhyolite. This rhyolite is at least 300 meters thick and is the most extensive rhyolite on the property.

An extensive unusually rusty swamp was located on 40W at about 10+50 N. This rusty swamp was at the northern edge of the mapping on the south grid. The only unusual outcrop in the area was a nearby magnetic gabbro dike. Normally these dikes are not magnetic.

The central portion of the north grid consists predominantly of basalt flows although there is at least one and in places two rusty tuffaceous/sedimentary units (at 18W and 19W), associated with dacites and/or andesite tuffs. As is the case with the south grid, the western portion of the north grid contains more rhyolite. From 36W to 41W a felsic volcanic pile was mapped that is estimated to be 200 to 300 meters thick. Tuffaceous sediments and exhalite also flank this pile.

BENNY PROJECT-TRENCHES and PITS

TRENCH "A" (Line 5E, 5+ 70N)

Sometime in the past, an east-west, 20 meter long trench with a dog leg to the southeast was blasted into a sulphide showing. The showing occurs within a package of felsic volcanics near the contact of a narrow (5 meter) strike limited mafic volcanic unit. The sulphides, primarily pyrite and pyrrhotite with traces of chalcopyrite, occur as laminations, disseminations and pods within the felsic unit. Chip and grab samples from the trench and the area nearby yielded the following results; Au 4 to 26 ppb; Cu 14 to 79 ppm; Pb 8 to 36 ppm and Zn 9 to 105 ppm.

PIT AREA "B" (3+45W, 2+75N)

Three areas were unearthed in the past, exposing sulphide boulders with similar mineralization to that observed in pit "K". The boulders were sampled and the following results were obtained. Au and Pb values were insignificant; Cu values ranged from 67 to 206 ppm; Zn ranged from 64 to 433 ppm. Three samples were taken, 76009 to 76011 inclusive. The boulder from which sample 76011 was taken is so huge and so deeply buried that there is still some uncertainty as to whether or not it might have been considered outcrop. So much, so that someone had previously tried to excavate it and possibly drilled underneath it. The geological similarity of the three boulders (assuming that sample 76011 is also a boulder), and the mineralized pit 400 meters to the northeast, indicate that quite possibly the ice has moved these boulders 400m. southwest.

PIT "C" (L2E, 0+50S}

This showing consists of a small pit blasted into sulphidic sediments containing pyrite and pyrrhotite. Sample 76002 contained 3% disseminated pyrite and returned the following results; 201 ppb Au; 74 ppm Cu; 126 ppm Pb and 323 ppm Zn. The elevated Au value may be characteristic of the sediments versus the volcanic suite of rocks. Several pits were located about 100 meters northwest of this site but they were in overburden.

PIT "D" (Line 11+70W, 2+10S)

This showing consists of a small 2 meter by 2 meter pit blasted into siliceous, greenish grey exhalitive/cherty sediments immediately south of an ATV trail. The pit is rectangular in shape

and at least 2 metres deep. It is always filled with water and is colloquially referred to as the bathtub. Pyrrhotite is the main sulphide, although pyrite and graphitic argillite were also noted. Samples 76061 and 76062 were sent in for analysis. Sample 76061 returned a Cu value of 221 ppm and a Zn value of 95ppm.

PIT "E" (Line 15+10W, 2+00S)

This showing is a small 2 meter 'slash' on the edge of a steep east-west hillside. This pit is only 50 metres east of a huge rhyolite domed outcrop with some greenish exhalitive material noted in one sample. Sample 76023 taken from the pit contained 1 to 2% pyrrhotite in a dacitic unit. The sample contained 72 ppm Cu and 227 ppm Zn

AREA "F" (Line 22+00W, 2+90S)

This area consists of 5 pits extending from 21+30W to 22+70W or 140 metre strike length: the pits were referred to as pits 1 to 5 from east to west in the field. The sulphides are frequently associated with siliceous white or greenish exhalitive sediments and/or rusty tuffaceous sediments. These rusty tuffaceous sediments appear to occur near the contact of mafic and felsic (dacite and rhyolite), volcanic rocks. The sulphide content of these rocks ranges from 2-10% and locally up to 70-80%. Most of the sulphides consist of pyrrhotite with lessor amounts of pyrite although in places some of the sulphides are massive pyrite. Minor chalcopyrite and/or graphite were also observed. When the sulphides are less than 40-50%, they occur as fine laminations of disseminated sulphides, possibly indicative of exhalitive origin. As the sulphide content increases, the sulphides become more massive forming clusters and pods.

The pits were thoroughly sampled and although the base metal results were consistently anomalous, they were weak, Twenty five samples were collected, yielding the following range in values: Cu 11-458 ppm with 8 samples greater than 200 ppm; Pb 1-92 ppm and Zn 43-301 ppm with 7 samples greater than 200 ppm. A swampy area immediately south of pit 2 exhibiting a rusty colouration may indicate sulphide leaching.

AREA "G" (L29W, 3+00S)

This showing consists of three pits that were blasted into a sulphidic, cherty exhalite along a 150 meter strike length. The most easterly pit measures 2 meters by 1 meter and exposes a 1.3 meter

wide banded chert that locally contains 90 to 95 % pyrrhotite. Two grab samples of this unit from the pit returned the following values, insignificant Au and Pb, 181 and 411 ppm Cu, and 71 and 139 ppm Zn.

The middle of the three pits in this area is essentially a small blast pit in cherty exhalite containing 1 to 3% pyrrhotite. It was not sampled.

The most westerly pit is the most impressive. From its shear size, and the extent of the workings it was obvious that this area received the most testing. The pit measures 8 meters in length by 3 meters in width and it was estimated to be at least 3 meters deep. A large rock dump on its southeast flank reveals the volume of material that was extracted from this excavation. Observations from the rock pile and from the pit walls indicate that the sulphidic exhalite averaged 10 to 15% pyrrhotite in a banded siliceous matrix. Samples 76080 to 76091 were collected from the site with the best results yielding 288 ppm Cu, 32 ppm Pb and 275 ppm Zn.

AREA "H" (41+05W, 3+10S)

An old pit about 1.5 metres X 1.5 metres on the west edge of an outcrop was located and sampled. The mineralization consisted of disseminated or massive sulphides in felsic volcanics. Samples 76119-76124 were taken from either the pit or nearby rocks. Most of the mineralization consisted of pyrite in rusty dacite or rhyolite, with grab sample 76121 containing 95% pyrite over 1' (.3 m.). Two other pits were located about 100 metres west. near line 42+00W and 2+50S. The largest of these two pits was about 3 metres X 3metres. Samples 76125-76132 inclusive were taken from the area. The style of mineralization was similar to the pit on line 41W , although, here the dacite was noticeably more greenish in colour and the sulphide bands were more pronounced. Only four of the samples from this area assayed over 100 ppm Cu: sample 76032 being the highest with 250 ppm Cu. Seven of the samples from this area were over 100 ppm Zn. Sample 76032 had the highest value with 139 ppm Zn.

AREA "J" (50+20W, 1+70S)

This showing consists of a huge blasted 'slash' on the west side of a knob of grey siliceous exhalite/tuff and rhyolite; there is also a smaller pit nearby, just to the east. Most of the sulphides in this area are pyrrhotite, with up to 95% pyrrhotite in one sample, 76065. An interesting observation was noted in sample 76068. This sample contained 40-50% sulphides which mainly

occurred as distinct 3-5 mm bands of pyrite. In between these pyrite bands were small laminations composed predominantly of pyrrhotite. This is an indication of some sort of sulphide cyclicity; representing either a different pulse or a different source. This outcrop is unusual in that it was virtually one of the only outcrops exposed in the last western 400 meters. of the north grid. The highest copper value from this area was sample 76066 with 112 ppm: the highest zinc value was sample 76063 with 486 ppm Zn.

AREA "K" (Line 3W, 7+50N)

This showing occurs at the edge of a steep east-west hillside. It is essentially a blasted slash, approximately 2 metres x 2 metres, into an outcrop face. The showing occurs within a package of rusty tuffaceous sediments that are the strike continuation of simiar rocks that occur in proximity to trench "A". Locally, 40 to 70% pyrrhotite and minor pyrite occur in a brecciated rhyolite to dacite tuff-flow. Three grab samples were collected and returned insignificant Au and Pb values. One sample assayed 264 ppm Cu and 353 ppm Zn.

AREA "L" (48+20W, 15+00N)

This area is a 2-3 meter 'slash' on the south side of an outcrop of rusty, serecitic, felsic tuff: there are also several smaller pits nearby. Most of the sulphides consist of massive or laminated pyrite. Ten samples were taken from this area, samples 76092-76101 inclusive. The highest Cu value was sample 76098 with 141 ppm Cu; the highest Zn value, 76101 was 345 ppm. It should be noted that much of this showing has been transected by a large northwest trending gabbro dike. This late stage event has obliterated much of this areas potential for hosting a significant sulphide showing.

LINE 35W, 16+50S

A new sulphide showing was discovered at the above location. A rusty sulphidic tuff in part silicified occurs in contact with graphitic sediments. A sample of graphitic sediment returned a high Zn value of 1099 ppm and a Pb value of 254 ppm.

Conclusions and Recommendations

It is obvious from field observations and from the distribution of old pits or trenches that much of

tuffaceous sediments. These horizons appear to host the bulk of the sulphide mineralization. They are spatially associated with graphitic sediments, and are therefore easily detected geophysically and in places easily located visually. What is unusual about these sulphide horizons is that they frequently occur along the flanks of topographic ridges or highs.

It does not appear that much attention was paid to those areas beyond the barren massive pyrite and pyrrhotite zones. This may be a function of the limited extent of the sulphide zones. The showings are spatially associated with the rusty tuffaceous sediments and coupled with the fact that many Archean base metal deposits, including the Geneva and Stralak deposits, are capped by a barren sulphide horizon the rusty tuff offers a greater area for exploration. .

The analytical results are inconclusive, however geological mapping has confirmed the existence of a favourable unit (rusty tuffaceous sediment), that warrants further exploration. In this report the following recommendations are listed to further evaluate the ground.

1. Extend the southwest portion of the south grid to the Spanish River.
2. Map and prospect in greater detail the southwest quadrant of the south grid from lines 26 westward.
3. Compile geophysical data base with the geological data base
4. Preliminary drill targets may be identified upon completion of a geophysical survey.
5. Identify some key areas to do some detailed mapping and sampling.

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3. Resident Geologist Office Staff, Geological Data Inventory Folio. GDIF 243, Moncrieff Township.

4. Resident Geologist Office Staff, Geological Data Inventory Folio, GDIF 242, Craig Township

5. Resident Geologist Office . Assessment Files (assorted)

CERTIFICATION

I, Frank C. Racicot, of the Town of Wahnapitae,
Province of Ontario,do hereby certifiy that:

1. I am a private consulting geologist working out of my home at 260 Dryden Rd. P.O. Box 114, Wahnapitae, Ontario, P0M 3C0.

2. I have a 1974 Bachelor of Science degree in geology from Laurentian University, Sudbury, Ontario.

3. I am a member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta, registered as a professional geologist.

4. I am a member of the local Prospectors and Developers Association in Sudbury.

5. I have based this report on data listed in the bibliography on my experience gained over 20 years in the exploration industry.

Frank C. Racicot, BSc., PGeol.

Frank Racicot

CERTIFICATION

Walter Hanych
PO Box 688 Collingwood, Ont. L9Y4E8
PH (705) 445 6440

This is to certify, that I Walter Hanych, of Collingwood Ontario:

1. I am an independent consulting geologist working out of my home in Collingwood Ont.

2. I have a Bachelor of Science degree in the field of geology from Laurentian University, located in Sudbury Ontario, in 1977.

3. I have based this report on personal visits to the field in the Benny area, on the data listed in the bibliography and on my own experience

Walter Hanych

Walter Hanych

Appendix 1

Sample No.	Sample Description
76001	Very rusty, heavy, black, medium grained ultramafic
76002	2-4% py in medium grained siliceous, dacite/rhyolite with chlorite
76003	Slightly siliceous rusty dacitic flow with 1 % po
76004	5-10% py as disseminations and large smears in black, sooty, graphitic argillite
76005	3-5% po and trace bornite in felsic boulder (1.5'X0.5') found in 1' thick polymictic conglomerate band. Contains 2-5cm well rounded granitic and siltstone pebbles. Matrix is sooty, black, graphitic, pyritic and silty.
76006	.25 % fine po and .25 % py in light green felsic volcanic
76007	3-5% py in sooty, black, argillite with fine grained felsic 'fragments/pebbles'. This sedimentary horizon is 5-10' wide
76008	1-2% very fine disseminated py in black, sooty argillite @ 100 degrees
76009	20-30% po in rusty, siliceous, white rhyolite
76010	3-15% (po.7 py .3) in rusty, dark andesite and rhyolite
76011	80-90% (po.9 py.1)in white, light grey siliceous rock with rounded quartz eyes and rock fragments in sulphide matrix
76012	very rusty, "platey" (sheared) siliceous argillite
76013	Medium rusty, "platey", white argillite
76014	40-70% (po.98 cp.02) in quartz-eye breccia . Similar to 76011
76015	15-20% disseminated pyrite as py x-tals & fine laminations in basalt. Near trench
76016	70-90% disseminated pyrite in andesite tuff(?). From trench rubble
76017	No description
76018	No description
76019	3-10% pyrite & minor pyrite in rusty, white, rhyolite/dacite
76020	2-5% pyrite in medium grey, rusty, slightly siliceous dacitic tuff(?)
76021	2-4% pyrite in rusty rock (as above)
76022	5-10% pyrrhotite in rusty, siliceous dacite.
76023	1-2% pyrrhotite in fine grained, siliceous dacite.Pit on 15W/ 2S
76024	1% pyrrhotite in rusty, green, siliceous exhalite
76025	80% pyrite from old trench rubble on 5E/9N
76026	1-2% pyrite in fine grained, dark green, magnetic dacite: 20' west of road
76027	no sulphides in rusty, felsic unit: north of lake
76028	rusty, "bleached, felsic (dacite?) unit
76029	3-5% pyrrhotite (po) along fractures in gray, rusty, dacitic tuff
76030	5-7% disseminated po in grey, felsic/dacitic flow. Similar to above
76031	1-2% po as fine disseminations in grey, rusty, siliceous dacitic tuff
76032	90-95% (po.95 py.05) as fine disseminations in fine grained, siliceous, dark green, exhalite/rhyolite: pit 5 rubble
76033	70-90% disseminated py in andesite(?) from pit rubble by lake
76034	25-30% in rusty, banded, siliceous tuff
76035	30-40% (po.9sphal?.1)as discrete grains in rock similar to above. Pit 5
76036	40-60% (po.95 py.05) with black streaks on streak plate in siliceous unit. Pit 5 rubble
76037	70-80% (po.95 py.05) in siliceous pit rubble. Pit 5
76038	1-5% (po.99 py.01) as disseminations and thin 1-2mm layers in fine grained, dark, rusty andesitic tuff. One ft thick mineralized band in contact with 4' wide rusty quartz band to north & siliceous, cherty horizon to south

Sample No.	Sample Description
76039	Generalized channel sample across 4' wide quartz "vein" with minor po
76040	north contact of rusty quartz "vein"
76041	1-3% (py.7po.3) in rusty, cherty unit north of quartz "vein"
76042	8-10% (po.98 py.02) in rusty, quartz rubble; Minor graphite in cherty-sediment: near pit 1
76043	1%(cp.7 po.3) in 25 cm. graphitic argillite & cherty unit; from pit 2
76044	1% po in rusty, thinly bedded, cherty unit; from pit 2
76045	similar to above, but sampled over 4': pit 2
76046	2-4% po in rusty, cherty siliceous unit; east of pit 3
76047	2-4% (po.7 py.3) in rusty, grey metasediment; east of pit 3
76048	rusty, hematic quartz: pit 3
76049	1-2% po with trace cp as fine disseminations in light & dark grey, cherty, laminated metasediment
76050	4-6% po as fine disseminated sulphides in grayish green (chloritic?), silliceous argillite
76051	10-15% py in medium-fine grained grey-green, slightly magnetic, siliceous metasediment/tuff
76052	6-8% (po.7 py.3) in rusty, siliceous metasediment
76053	20-30%(po.6 py.4) as disseminations from two 1' rusty, metasediments separated by barren argillite.
76054	10-15% py in grey argillaceous, siliceous metasediments
76055	1-2% py in medium grained dark volcanic basalt
76056	rusty, cherty graphitic, metaseds with 1-3% py.
76057	80-90% sulphides over 1-2'
76058	50-80% sulphides over 2-3'
76059	1% po in tuffaceous, siliceous metaseds/tuff
76060	30-40% po in fine grained grey siliceous tuff
76061	2-5% po in fine grained, grey, siliceous tuff ; from 'bathtub'
76062	1-3% py in black, rusty, graphitic argillite; from 'bathtub'
76063	10% disseminated po in fine grained, grey, siliceous exhalite/tuff
76064	1-3% po in very rusty, fine grained, grey, siliceous exhalite
76065	95% po band in grey, siliceous, exhalite/tuff
76066	2-10% disseminated po in rocks as above
76067	no sulphides in fine grained, rusty, grey rhyolite
76068	40-50%(py.8po.2) in fine grained grey, siliceous exhalite. Py occurs as distinct 3-5 mm bands. Po generally occurs between these py bands;BP-500 in field
76069	similar to above but only 20-30% sulphides:BP-501 in field
76070	30-40%(po.7 py.3) as discrete layers in fine grained exhalitive/tuff; BP-502 in field
76071- 70075	not sampled
76076	rusty, fine grained, white felsic rock
76077	fine grained, grey, rusty, tuffaceous/exhalite
76078	4-5% sulphides in rusty rhyolite
76079	90-95% po with dark siliceous material: rubble from near 4' wide chert zone; beside BP-121 in field
76080	fine grained, dark grey, exhalite with 10-15 % laminated/disseminated po
76081	5% dissem po as above
76082	5-10% dissem po as above

Sample No.	Sample Description
76083	5-10% dissem po in rusty, grey, moderately siliceous tuff
76084	10-20% dissem po as above, greenish
76085	60-70% finely dissem po in .1-1mm laminations in finely laminated chert; from 24m wide rusty tuff zone: Porphyritic basalt to north & mod rusty tuff to south
76086	3-5% dissem po in rusty, greenish grey tuff
76087	1-3% po in rusty, grey, siliceous exhalite
76088	15-20% po as above
76089	5-10% po as above
76090	4-8% po as above
76091	3-6% po in rusty, siliceous tuff; ryholitic in places
76092	3-5% py over 6' in rock as above
76093	5-8% py as above
76094	3-8% py as above; 15 cm barren, white rhyolite zone in rusty tuff
76095	10-12% po in sugary dacite with serecite
76096	5-8% py in rusty, grey, slightly siliceous, 'sugary', exhalite/tuff
76097	100% py from pit rubble
76098	ave 50% po in layered, siliceous dacite; pit rubble
76099	25% py + 1 piece with 100% py in serecitic, 'sugary', siliceous dacite(?)
76100	ave 75% py from pit rubble
76101	as above
76102	rusty, andesitic tuff
76103	rusty basalt on south side of 3m wide draw containing sediments (argillite)
76104	rusty andesitic tuff
76105	no description
76106	no description
76112	1% po in rusty pod near south Gr contact
76113	rusty, grey dacite(?) BP-503 in field
76114	5% py in graphitic argillite in 2.5m wide gut
76115	rusty, pytitic, feldspathic quartzite
76116	rusty, slightly pyritic tuffaceous sediment; BP-504
76117	similar to above(?) BP-505
76118	10-15% fine dissem po in rusty tuff in mafic/ultramafic zone/pod
76119	5-8%py over 4' in pyritic dacite
76120	4-8% py over 1' in pyritic dacite
76121	95% py over 1' in rusty dacite/rhyolite
76122	2-4% py over 1' in rusty, rotten. sheared rhyolite
76123	15-20 % py in rusty dacite
76124	30% (po.7 py.3) in rusty, dark grey dacite
76125	3-4% (py.95 po.05) in rusty, greenish dacite over 4'
76126	rusty quartz over 10 cm
76127	1-2% py in rusty rhyolite/quartz(?)
76128	rusty, dirty grey/white quartz over 20 cm
76129	15-20% py in rusty, grey dacite
76130	5-10% py in rusty, grey dacite
76131	20-30% py in rusty, greenish dacite
76132	4-8% py in banded, rusty, light grey/white dacite/rhyolite
76133	1% py in dark grey, rusty dacite
76134	1% (po.5 py.5) in rusty, greenish rhyolite: says BW97118.1 in field
76135	0.5-1% py in rusty, green rhyolite/tuff; says BW97118.2 in field
76136	60-70% (po.95 bn.05) in fine grained, weakly magnetic grey tuff(?); FR 2A in

Sample No.	Sample Description
76136	field. Located west of Spanish River.
76137	5% py in layers and clots in fine grained, magnetic, greywacke(?); FR3 in field west of Spanish River
76138	90% (po.75 py.25) in weakly magnetic tuff(?); FR-4 in field west of Spanish River
76139	10-15%{po.8 py.2) in dark basalt; says Fr-5 in field west of Spanish River

Appendix 2

CERTIFICATE OF ANALYSIS

Mr. Frank Racicot
P.O. Box 114
WAHNAPITAE ON
P0M 3C0

170905

Page 1 of 5

Sample Name	PPM Ag	% Al	PPM As	PPM B	PPM Ba	PPM Be	PPM Bi	% Ca	PPM Cd	PPM Co	PPM Cr	PPM Cu
76001	0.4	3.30	19	<5	213	0.3	3	0.28	<.5	2	59	37
76002	<.1	2.21	8	6	198	0.2	<3	0.33	1.3	5	66	74
76003	<.1	1.95	13	19	50	0.3	<3	0.48	1.2	24	201	83
76004	<.1	0.70	80	33	39	0.3	<3	0.10	1.2	109	59	111
76005	0.3	1.80	28	15	36	0.7	<3	0.30	1.1	34	177	87
76006	<.1	3.25	67	8	14	0.5	<3	0.39	1.3	54	256	96
76007	<.1	0.76	44	24	36	0.4	<3	0.12	0.9	61	128	176
76008	<.1	2.44	13	15	49	0.7	6	0.33	1.7	17	93	28
76009	1.1	0.16	30	<5	12	0.5	<3	0.05	<.5	9	73	136
76010	0.6	1.44	16	<5	29	1.5	<3	0.33	<.5	18	156	67
76011	0.8	0.29	<2	<5	13	1.1	<3	0.03	<.5	18	18	206
76012	<.1	1.10	165	25	32	0.4	<3	0.30	0.9	13	96	42
76013	<.1	0.17	5	21	27	0.1	<3	0.02	0.8	3	107	23
76014	1.2	0.27	<2	<5	12	0.3	<3	0.06	<.5	14	61	264
76015	0.6	1.45	20	<5	14	0.3	3	0.13	<.5	28	65	45
76016	0.7	1.15	16	12	36	0.4	<3	0.32	0.9	11	92	35
76017	0.2	0.14	5	37	24	0.1	<3	0.01	0.6	3	63	14
76018	<.1	1.29	42	<5	15	0.3	<3	0.07	<.5	33	63	36
76019	<.1	1.00	21	9	20	0.3	<3	0.43	0.8	35	119	61
76020	<.1	2.73	104	<5	10	0.4	8	0.33	<.5	137	126	98
76021	<.1	1.72	18	11	9	0.3	<3	0.36	1.4	28	165	103
76022	0.2	1.67	3	<5	14	0.4	4	0.50	<.5	42	132	128
76023	<.1	0.73	11	17	32	0.2	<3	0.34	1.6	31	116	72
76024	<.1	0.77	8	28	28	0.2	<3	0.47	1.3	24	124	106
76025	1.0	2.02	38	<5	18	0.6	<3	0.16	<.5	29	59	79
76026	<.1	1.78	20	13	185	0.4	<3	0.72	1.5	21	134	63
76027	0.2	0.80	8	28	7	0.4	<3	0.82	1.0	8	139	61
76028	<.1	1.89	25	21	34	0.3	<3	0.20	1.2	7	70	26
76029	<.1	0.84	16	23	17	0.3	<3	0.39	1.4	31	139	88
76030	<.1	1.32	14	15	44	0.3	<3	0.33	1.8	33	178	68
76031	<.1	1.67	12	21	19	0.4	<3	0.41	0.7	21	121	62

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Mr. Frank Racicot
PO Box 114
WAHNAPITAE ON
POM 3C0

970905

Page 2 of 5

Sample Name	PPM Ag	% Al	PPM As	PPM B	PPM Ba	PPM Be	PPM Bi	% Ca	PPM Cd	PPM Co	PPM Cr	PPM Cu
76032	<.1	1.20	<2	<5	17	0.5	9	0.27	<.5	85	82	250
76033	<.1	1.17	93	<5	7	0.4	<3	0.07	<.5	78	42	57
76034	0.2	2.11	31	<5	32	0.5	<3	0.11	<.5	15	88	65
76035	<.1	2.26	9	<5	31	0.5	<3	0.36	<.5	80	112	98
76036	<.1	1.96	8	<5	20	0.5	<3	0.38	<.5	87	144	123
76037	0.5	0.97	<2	<5	4	0.5	<3	0.37	<.5	69	74	288
76038	<.1	2.72	24	<5	23	0.6	11	0.49	1.0	55	169	121
76039	0.2	0.25	9	31	13	0.1	<3	0.08	0.9	8	123	43
76040	<.1	0.67	15	17	6	0.2	<3	0.10	0.9	11	186	31
76041	<.1	2.43	15	11	18	0.4	6	0.33	1.4	30	159	76
76042	0.5	0.55	8	<5	14	0.3	12	0.11	<.5	100	94	453
76043	1.3	1.59	15	<5	44	0.3	13	0.26	<.5	66	73	324
76044	<.1	2.56	21	9	32	0.5	4	0.36	1.3	22	154	92
76045	0.1	1.80	22	16	20	0.4	<3	0.39	2.1	19	83	48
76046	1.0	0.70	6	<5	12	0.4	10	0.43	<.5	103	112	458
76047	<.1	2.69	23	<5	28	0.6	11	0.45	1.9	64	60	259
76048	<.1	0.49	13	22	31	0.2	<3	0.62	0.9	16	151	72
76049	0.3	1.71	15	16	67	0.4	<3	0.28	1.3	27	76	98
76050	<.1	2.16	16	<5	157	0.4	<3	0.40	2.6	54	154	61
76051	<.1	2.44	18	<5	141	0.4	<3	0.34	1.2	22	257	50
76052	<.1	0.59	15	12	9	0.2	<3	0.24	1.1	21	152	46
76053	0.1	1.59	11	<5	6	0.5	5	0.33	<.5	241	88	216
76054	0.5	2.40	24	<5	9	0.5	13	0.57	1.5	192	127	115
76055	<.1	2.85	22	<5	69	0.5	13	0.72	1.3	36	319	52
76056	0.5	2.91	30	<5	21	0.5	12	0.50	1.2	29	216	100
76057	1.9	1.21	3	<5	15	0.5	9	0.24	<.5	88	63	264
76058	1.6	1.46	8	<5	22	0.5	7	0.38	<.5	82	102	205
76059	<.1	1.66	13	19	47	0.4	<3	0.53	0.7	19	126	65
76060	<.1	2.20	10	<5	13	0.6	27	2.57	<.5	81	52	181
76061	0.1	1.56	17	<5	45	0.5	16	0.73	1.0	52	140	221
76062	<.1	1.83	21	10	47	0.5	6	0.37	1.7	29	59	66

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CERTIFICATE OF ANALYSIS

Mr. Frank Racicot
P.O. Box 114
WAHNAPITAE ON
P0M 3C0

170105

Sample Name	PPM Ag	% Al	PPM As	PPM B	PPM Ba	PPM Be	PPM Bi	% Ca	PPM Cd	PPM Co	PPM Cr	PPM Cu
76001	0.4	3.30	19	<5	213	0.3	3	0.28	<.5	2	59	37
76002	<.1	2.21	8	6	198	0.2	<3	0.33	1.3	5	66	74
76003	<.1	1.95	13	19	50	0.3	<3	0.48	1.2	24	201	83
76004	<.1	0.70	80	33	39	0.3	<3	0.10	1.2	109	59	111
76005	0.3	1.80	28	15	36	0.7	<3	0.30	1.1	34	177	87
76006	<.1	3.25	67	8	14	0.5	<3	0.39	1.3	54	256	96
76007	<.1	0.76	44	24	36	0.4	<3	0.12	0.9	61	128	176
76008	<.1	2.44	13	15	49	0.7	6	0.33	1.7	17	93	28
76009	1.1	0.16	30	<5	12	0.5	<3	0.05	<.5	9	73	136
76010	0.6	1.44	16	<5	29	1.5	<3	0.33	<.5	18	156	67
76011	0.8	0.29	<2	<5	13	1.1	<3	0.03	<.5	18	18	206
76012	<.1	1.10	165	25	32	0.4	<3	0.30	0.9	13	96	42
76013	<.1	0.17	5	21	27	0.1	<3	0.02	0.8	3	107	23
76014	1.2	0.27	<2	<5	12	0.3	<3	0.06	<.5	14	61	264
76015	0.6	1.45	20	<5	14	0.3	3	0.13	<.5	28	65	45
76016	0.7	1.15	16	12	36	0.4	<3	0.32	0.9	11	92	35
76017	0.2	0.14	5	37	24	0.1	<3	0.01	0.6	3	63	14
76018	<.1	1.29	42	<5	15	0.3	<3	0.07	<.5	33	63	36
76019	<.1	1.00	21	9	20	0.3	<3	0.43	0.8	35	119	61
76020	<.1	2.73	104	<5	10	0.4	8	0.33	<.5	137	126	98
76021	<.1	1.72	18	11	9	0.3	<3	0.36	1.4	28	165	103
76022	0.2	1.67	3	<5	14	0.4	4	0.50	<.5	42	132	128
76023	<.1	0.73	11	17	32	0.2	<3	0.34	1.6	31	116	72
76024	<.1	0.77	8	28	28	0.2	<3	0.47	1.3	24	124	106
76025	1.0	2.02	38	<5	18	0.6	<3	0.16	<.5	29	59	79
76026	<.1	1.78	20	13	185	0.4	<3	0.72	1.5	21	134	63
76027	0.2	0.80	8	28	7	0.4	<3	0.82	1.0	8	139	61
76028	<.1	1.89	25	21	34	0.3	<3	0.20	1.2	7	70	26
76029	<.1	0.84	16	23	17	0.3	<3	0.39	1.4	31	139	88
76030	<.1	1.32	14	15	44	0.3	<3	0.33	1.8	33	178	68
76031	<.1	1.67	12	21	19	0.4	<3	0.41	0.7	21	121	62

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Page 2 of 5

Sample Name	PPM Ag	% Al	PPM As	PPM B	PPM Ba	PPM Be	PPM Bi	% Ca	PPM Cd	PPM Co	PPM Cr	PPM Cu
76032	<.1	1.20	<2	<5	17	0.5	9	0.27	<.5	85	82	250
76033	<.1	1.17	93	<5	7	0.4	<3	0.07	<.5	78	42	57
76034	0.2	2.11	31	<5	32	0.5	<3	0.11	<.5	15	88	65
76035	<.1	2.26	9	<5	31	0.5	<3	0.36	<.5	80	112	98
76036	<.1	1.96	8	<5	20	0.5	<3	0.38	<.5	87	144	123
76037	0.5	0.97	<2	<5	4	0.5	<3	0.37	<.5	69	74	288
76038	<.1	2.72	24	<5	23	0.6	11	0.49	1.0	55	169	121
76039	0.2	0.25	9	31	13	0.1	<3	0.08	0.9	8	123	43
76040	<.1	0.67	15	17	6	0.2	<3	0.10	0.9	11	186	31
76041	<.1	2.43	15	11	18	0.4	6	0.33	1.4	30	159	76
76042	0.5	0.55	8	<5	14	0.3	12	0.11	<.5	100	94	453
76043	1.3	1.59	15	<5	44	0.3	13	0.26	<.5	66	73	324
76044	<.1	2.56	21	9	32	0.5	4	0.36	1.3	22	154	92
76045	0.1	1.80	22	16	20	0.4	<3	0.39	2.1	19	83	48
76046	1.0	0.70	6	<5	12	0.4	10	0.43	<.5	103	112	458
76047	<.1	2.69	23	<5	28	0.6	11	0.45	1.9	64	60	259
76048	<.1	0.49	13	22	31	0.2	<3	0.62	0.9	16	151	72
76049	0.3	1.71	15	16	67	0.4	<3	0.28	1.3	27	76	98
76050	<.1	2.16	16	<5	157	0.4	<3	0.40	2.6	54	154	61
76051	<.1	2.44	18	<5	141	0.4	<3	0.34	1.2	22	257	50
76052	<.1	0.59	15	12	9	0.2	<3	0.24	1.1	21	152	46
76053	0.1	1.59	11	<5	6	0.5	5	0.33	<.5	241	88	216
76054	0.5	2.40	24	<5	9	0.5	13	0.57	1.5	192	127	115
76055	<.1	2.85	22	<5	69	0.5	13	0.72	1.3	36	319	52
76056	0.5	2.91	30	<5	21	0.5	12	0.50	1.2	29	216	100
76057	1.9	1.21	3	<5	15	0.5	9	0.24	<.5	88	63	264
76058	1.6	1.46	8	<5	22	0.5	7	0.38	<.5	82	102	205
76059	<.1	1.66	13	19	47	0.4	<3	0.53	0.7	19	126	65
76060	<.1	2.20	10	<5	13	0.6	27	2.57	<.5	81	52	181
76061	0.1	1.56	17	<5	45	0.5	16	0.73	1.0	52	140	221
76062	<.1	1.83	21	10	47	0.5	6	0.37	1.7	29	59	66

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Page 3 of 5

Sample Name	% Fe	% K	PPM La	% Mg	PPM Mn	PPM Mo	% Na	PPM Ni	PPM P	PPM Pb	% S	PPM Sb	PPM Se	% Si	PPM Sn
76001	14.85	1.47	11	0.76	777	2	0.04	9	566	4	n/a	<2	<5	0.04	<5
76002	12.78	1.31	13	0.55	719	2	0.03	12	669	126	n/a	<2	<5	0.03	<5
76003	7.05	0.17	11	1.35	737	4	0.05	59	1454	12	n/a	6	<5	0.06	<5
76004	4.49	0.19	3	0.46	209	5	0.04	78	622	18	n/a	2	<5	0.04	<5
76005	7.23	0.17	23	1.53	638	5	0.05	65	504	4	n/a	5	<5	0.06	<5
76006	7.96	0.07	8	2.38	865	2	0.05	58	2069	6	n/a	14	<5	0.04	<5
76007	4.38	0.16	1	0.33	233	8	0.05	52	451	19	n/a	<2	<5	0.05	<5
76008	5.57	0.14	103	1.39	625	6	0.05	78	708	11	n/a	6	<5	0.03	<5
76009	32.18	0.04	15	0.04	221	<1	0.03	55	263	<2	n/a	<2	<5	0.04	<5
76010	17.78	1.23	29	1.49	963	<1	0.04	45	1568	7	n/a	4	<5	0.04	<5
76011	>40	0.06	13	0.16	343	<1	0.02	65	679	<2	n/a	<2	<5	0.04	<5
76012	3.62	0.17	12	0.66	485	4	0.04	34	709	10	n/a	7	<5	0.04	<5
76013	3.99	0.11	18	0.01	117	4	0.07	13	386	12	n/a	<2	<5	0.04	<5
76014	33.85	0.03	16	0.13	227	4	0.03	62	665	<2	n/a	<2	<5	0.04	<5
76015	12.34	0.04	9	0.84	966	3	0.03	48	593	19	n/a	4	<5	0.03	<5
76016	6.78	0.09	10	0.61	764	5	0.05	45	775	18	n/a	3	<5	0.03	<5
76017	1.29	0.08	7	0.02	71	3	0.03	9	118	8	n/a	<2	<5	0.04	<5
76018	28.47	0.08	9	0.50	855	<1	0.04	40	379	36	n/a	<2	<5	0.05	<5
76019	7.66	0.14	14	0.66	459	5	0.06	52	842	11	n/a	5	<5	0.05	<5
76020	21.50	0.04	18	2.16	917	<1	0.03	145	1297	5	n/a	<2	<5	0.05	<5
76021	7.30	0.04	9	1.41	659	3	0.04	55	1137	16	n/a	8	<5	0.04	<5
76022	22.15	0.04	19	1.38	764	3	0.04	146	1541	2	n/a	<2	<5	0.04	<5
76023	4.13	0.29	10	0.52	306	4	0.05	49	670	12	n/a	<2	<5	0.03	<5
76024	3.44	0.11	14	0.54	293	3	0.06	57	645	10	n/a	7	<5	0.04	<5
76025	>40	0.10	11	0.68	1358	<1	0.02	88	906	8	n/a	<2	<5	0.04	<5
76026	6.33	0.49	12	1.26	508	2	0.09	67	944	22	n/a	6	<5	0.07	<5
76027	2.81	0.01	8	0.23	327	3	0.04	20	752	157	n/a	<2	<5	0.05	<5
76028	3.87	0.12	10	1.15	438	3	0.04	21	644	266	n/a	9	<5	0.03	<5
76029	4.59	0.08	9	0.67	334	5	0.05	58	770	160	n/a	4	<5	0.04	<5
76030	6.27	0.37	11	1.15	585	5	0.06	79	740	33	n/a	5	<5	0.03	<5
76031	4.40	0.12	19	1.05	715	4	0.06	46	558	20	n/a	7	<5	0.03	<5

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Page 4 of 5

Sample Name	% Fe	% K	PPM La	% Mg	PPM Mn	PPM Mo	% Na	PPM Ni	PPM P	PPM Pb	% S	PPM Sb	PPM Se	% Si	PPM Sn
76032	37.42	0.10	18	0.88	774	<1	0.04	252	896	<2	n/a	<2	<5	0.04	<5
76033	>40	0.21	14	0.39	712	<1	0.03	44	683	16	n/a	<2	<5	0.06	<5
76034	23.45	0.33	10	0.82	1390	3	0.03	47	566	18	n/a	<2	<5	0.05	<5
76035	18.82	0.24	16	1.61	1377	2	0.05	122	904	24	n/a	5	<5	0.04	<5
76036	20.67	0.11	16	1.39	1235	<1	0.05	128	797	7	n/a	5	<5	0.05	<5
76037	30.31	0.02	15	0.54	568	1	0.03	213	756	<2	n/a	<2	<5	0.04	<5
76038	12.59	0.15	16	2.30	916	5	0.06	108	1051	65	n/a	10	<5	0.08	<5
76039	2.21	0.05	<1	0.15	176	4	0.02	24	374	49	n/a	3	<5	0.04	<5
76040	5.12	<.01	2	0.57	370	6	0.02	37	581	14	n/a	8	<5	0.03	<5
76041	7.28	0.14	14	2.20	851	3	0.04	62	919	23	n/a	12	<5	0.04	<5
76042	19.04	0.06	7	0.41	285	6	0.02	221	634	14	n/a	2	<5	0.03	<5
76043	14.14	0.67	11	1.22	529	6	0.04	140	1117	24	n/a	8	<5	0.04	<5
76044	6.94	0.55	12	1.76	806	5	0.06	47	900	19	n/a	6	<5	0.05	<5
76045	4.21	0.13	9	1.30	605	3	0.05	42	910	92	n/a	4	<5	0.03	<5
76046	16.85	0.06	7	0.47	420	6	0.02	229	282	40	n/a	4	<5	0.05	<5
76047	14.01	0.17	17	1.95	838	15	0.04	129	1015	17	n/a	7	<5	0.03	<5
76048	3.59	0.11	1	0.28	304	7	0.02	43	212	26	n/a	7	<5	0.05	<5
76049	5.12	0.20	8	1.06	506	4	0.05	47	682	17	n/a	4	<5	0.03	<5
76050	7.23	0.80	16	1.26	903	3	0.07	84	1059	14	n/a	4	<5	0.03	<5
76051	9.66	1.67	17	1.43	1186	8	0.04	63	1451	17	n/a	5	<5	0.03	<5
76052	5.80	0.04	7	0.34	473	9	0.02	50	521	13	n/a	6	<5	0.03	<5
76053	25.36	0.04	15	1.14	928	3	0.04	174	887	13	n/a	3	<5	0.04	<5
76054	16.59	0.07	20	1.72	1449	2	0.04	96	955	32	n/a	5	<5	0.03	<5
76055	10.80	0.78	30	2.37	1420	3	0.03	100	2916	20	n/a	13	<5	0.04	<5
76056	12.54	0.18	18	2.36	1628	3	0.05	56	1654	25	n/a	9	<5	0.05	<5
76057	35.35	0.13	19	0.96	745	<1	0.04	254	1217	4	n/a	<2	<5	0.05	<5
76058	27.77	0.14	19	0.99	987	2	0.04	192	1350	10	n/a	<2	<5	<.01	<5
76059	4.37	0.23	17	0.73	639	5	0.09	37	781	18	n/a	8	<5	0.03	<5
76060	27.64	0.21	25	1.50	1830	<1	0.04	119	1735	13	n/a	5	<5	0.07	<5
76061	15.85	0.31	18	0.71	1027	10	0.03	93	1226	17	n/a	6	<5	0.03	<5
76062	5.79	0.19	14	1.28	481	4	0.03	53	720	18	n/a	13	<5	0.03	<5

CHARTERED DIPLOMA CHEMIST

F. Duncan

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CERTIFICATE OF ANALYSIS

Mr. Frank Racicot
P.O. Box 114
WAHNAPITAE ON
P0M 3C0

970105

Page 5 of 5

Sample Name	PPM Sr	% Ti	PPM V	PPM W	PPM Zn
76001	6	0.16	33	11	75
76002	3	0.11	19	7	323
76003	17	0.24	65	5	109
76004	2	0.05	12	<2	19
76005	4	0.13	44	2	48
76006	4	0.10	108	5	92
76007	3	0.07	16	<2	26
76008	27	0.06	53	3	68
76009	2	<.01	<1	4	433
76010	11	0.10	36	4	172
76011	3	<.01	<1	5	64
76012	14	0.12	21	<2	47
76013	25	0.02	4	<2	13
76014	4	0.02	2	4	353
76015	6	0.09	14	<2	105
76016	11	0.18	18	<2	97
76017	3	0.02	3	<2	9
76018	4	0.11	20	4	76
76019	29	0.25	60	<2	53
76020	7	0.19	92	6	156
76021	6	0.26	82	2	106
76022	7	0.19	67	4	143
76023	6	0.20	47	<2	42
76024	15	0.22	41	<2	34
76025	12	0.09	14	7	81
76026	45	0.29	89	2	68
76027	44	0.17	32	<2	21
76028	3	0.16	51	<2	88
76029	15	0.15	36	<2	123
76030	14	0.16	59	<2	123
76031	18	0.20	53	<2	109

Sample Name	PPM Sr	% Ti	PPM V	PPM W	PPM Zn
76032	13	0.11	40	5	139
76033	6	0.06	17	8	76
76034	7	0.09	16	5	95
76035	15	0.15	64	4	211
76036	15	0.16	60	5	169
76037	21	0.10	27	4	53
76038	11	0.33	87	5	242
76039	2	0.03	12	<2	57
76040	2	0.03	30	<2	116
76041	3	0.29	121	4	113
76042	1	0.05	13	<2	121
76043	5	0.26	46	3	104
76044	10	0.24	82	3	135
76045	13	0.23	32	<2	301
76046	5	0.06	12	<2	95
76047	4	0.24	41	6	315
76048	8	0.05	12	<2	43
76049	6	0.16	26	<2	112
76050	8	0.25	83	4	275
76051	9	0.23	75	4	143
76052	7	0.05	25	<2	66
76053	16	0.13	46	4	124
76054	36	0.20	77	5	227
76055	18	0.20	83	5	203
76056	22	0.24	102	6	168
76057	8	0.11	45	15	155
76058	16	0.14	48	5	174
76059	24	0.21	49	<2	83
76060	20	0.06	30	8	139
76061	29	0.09	31	3	95
76062	4	0.14	19	<2	59

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
Dr. G. Duncan
CHEMIST

F. Duncan

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FAX (807) 623-6820

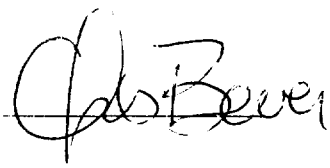
F. RACICOT
P.O. BOX 114
WAHNAPITAE, ONTARIO
P0M 3C0

Sep 23, 1997

Job #9740815

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm
76063	0.8	0.90	11	17	6	0.2	4	0.29	2.6	39	430	83	6.68	0.10	12
76064	0.7	1.22	8	19	12	0.2	<3	0.32	1.1	21	304	74	6.53	0.21	10
76065	0.3	1.10	12	16	11	0.2	<3	0.38	1.0	32	447	37	4.41	0.15	16
76066	0.5	0.63	9	<5	6	0.2	<3	0.34	1.1	43	288	112	11.47	0.04	15
76067	0.3	0.62	9	23	12	0.2	<3	0.16	<.5	14	424	35	3.59	0.04	10
76068	0.5	1.01	11	<5	6	0.2	<3	0.24	<.5	50	385	89	10.68	0.04	11
76069	0.5	1.18	5	13	5	0.2	<3	0.34	0.7	37	391	40	6.15	0.03	16
76070	0.6	1.36	6	<5	6	0.2	<3	0.23	0.6	45	301	83	13.16	0.04	12
76076	0.4	1.11	5	16	18	0.2	<3	0.24	<.5	10	205	27	3.28	0.13	14
76077	0.4	1.31	6	15	18	0.2	<3	0.43	<.5	28	648	39	4.49	0.20	10
76078	0.3	0.48	8	21	18	0.1	<3	0.26	0.8	19	461	40	2.08	0.06	10
76079	0.7	1.23	5	<5	28	0.4	<3	0.39	<.5	108	416	411	20.12	0.19	13
76080	1.0	1.24	9	6	25	0.2	<3	0.53	<.5	69	520	106	9.06	0.28	13
76081	0.1	0.24	5	21	9	<.1	<3	0.07	<.5	34	599	29	3.62	0.09	3
76082	<.1	0.28	<2	17	19	<.1	<3	0.13	<.5	34	510	91	4.62	0.18	8

	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
76063	0.94	494	4	0.02	48	789	144	5	<5	0.04	<5	7	0.12	54	<2	486
76064	1.27	638	4	0.02	30	964	41	<2	<5	0.05	<5	14	0.21	76	10	229
76065	1.13	572	2	0.02	58	832	16	3	<5	0.03	<5	5	0.14	66	<2	171
76066	0.59	365	3	0.02	71	669	64	3	<5	0.04	<5	9	0.10	40	6	222
76067	0.53	277	2	0.03	10	783	65	5	<5	0.03	<5	5	0.27	67	<2	51
76068	0.99	507	3	0.01	64	534	11	2	<5	0.03	<5	6	0.10	38	<2	94
76069	1.22	558	2	0.02	57	604	12	6	<5	0.03	<5	6	0.12	49	<2	93
76070	1.39	682	<1	0.02	65	615	10	5	<5	0.04	<5	6	0.09	43	4	122
76076	1.04	475	<1	0.03	12	449	18	<2	<5	0.06	<5	16	0.20	47	<2	36
76077	1.12	525	1	0.04	48	619	9	<2	<5	0.06	<5	18	0.16	50	<2	110
76078	0.29	177	<1	0.02	18	446	172	3	<5	0.04	<5	22	0.13	26	<2	80
76079	0.53	591	8	0.01	177	517	5	<2	<5	0.05	<5	25	0.06	20	7	71
76080	1.10	633	2	0.02	71	600	9	3	<5	0.04	<5	9	0.10	51	2	80
76081	0.13	135	4	<.01	35	231	3	<2	<5	0.03	<5	1	0.01	14	<2	16
76082	0.10	122	13	<.01	38	565	3	<2	<5	0.04	<5	2	0.04	12	<2	15

Certified By: 

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

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

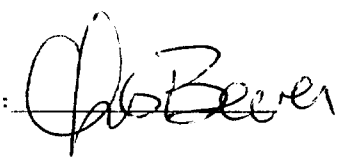
F. RACICOT
P.O. BOX 114
WAHNAPITAE, ONTARIO
P0M 3C0

Sep 23, 1997

Job #9740815

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm
76083	0.3	1.90	<2	<5	39	0.2	<3	0.49	<.5	38	298	77	9.68	0.51	20
76084	0.2	1.40	<2	5	29	0.2	<3	0.39	0.6	40	443	52	6.32	0.13	15
76085	0.4	0.81	9	<5	14	0.3	<3	0.84	<.5	61	466	101	12.21	0.13	11
76086	0.3	1.17	4	23	36	0.1	<3	0.25	0.5	30	284	48	4.12	0.41	15
76087	0.1	0.99	4	14	20	0.1	<3	0.27	<.5	33	501	40	3.08	0.14	12
76088	0.4	1.38	4	10	105	0.2	<3	0.31	0.7	40	359	60	6.91	0.64	16
76089	0.2	0.77	5	23	34	0.1	<3	0.27	0.9	31	442	37	4.14	0.23	12
76090	<.1	0.34	<2	11	4	0.1	<3	0.30	<.5	37	359	60	6.07	0.02	14
76091	0.2	0.55	8	9	10	0.1	<3	0.12	<.5	25	467	35	4.74	0.07	8
76092	<.1	0.50	3	16	9	0.1	<3	0.19	<.5	24	293	55	3.71	0.10	10
76093	0.3	0.82	5	6	7	0.2	<3	0.31	<.5	35	357	62	8.36	0.12	15
76094	0.4	0.82	4	13	11	0.2	<3	0.23	0.7	28	431	32	4.41	0.10	13
76095	0.1	0.70	6	10	5	0.2	<3	0.21	<.5	48	389	55	9.12	0.03	14
76096	0.3	0.61	87	<5	6	0.2	<3	0.11	<.5	157	313	43	22.27	0.03	11
76097	0.4	0.59	98	<5	6	0.2	<3	0.11	<.5	153	305	42	21.88	0.03	13

	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
76083	1.18	1292	20	0.01	51	454	7	<2	<5	0.03	<5	6	0.09	38	2	97
76084	1.19	524	2	0.02	59	579	11	7	<5	0.03	<5	7	0.13	74	<2	69
76085	0.55	612	9	0.02	92	589	10	<2	<5	0.03	<5	15	0.06	23	<2	75
76086	1.03	356	1	0.03	58	545	6	5	<5	0.02	<5	4	0.13	79	<2	64
76087	0.84	374	<1	0.02	53	627	8	2	<5	0.03	<5	5	0.13	59	<2	47
76088	1.18	500	2	0.02	62	664	7	3	<5	0.03	<5	5	0.17	86	<2	74
76089	0.69	330	1	0.04	49	573	6	<2	<5	0.04	<5	5	0.15	59	<2	68
76090	0.27	176	<1	0.04	59	482	7	<2	<5	0.05	<5	5	0.16	30	<2	36
76091	0.55	253	3	0.03	26	501	7	4	<5	0.04	<5	7	0.20	50	<2	39
76092	0.48	246	<1	0.02	32	357	4	<2	<5	0.03	<5	3	0.17	48	<2	35
76093	0.75	345	2	0.02	70	463	7	5	<5	0.03	<5	5	0.18	53	<2	46
76094	0.88	354	3	0.02	37	484	7	<2	<5	0.04	<5	9	0.18	54	<2	53
76095	0.76	332	7	0.02	78	534	8	4	<5	0.03	<5	4	0.12	40	<2	84
76096	0.67	322	3	0.02	65	593	14	<2	<5	0.03	<5	3	0.09	26	6	42
76097	0.65	313	2	0.02	62	510	11	<2	<5	0.04	<5	3	0.08	26	10	44

Certified By: 

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1070 LITHIUM DRIVE, UNIT 2
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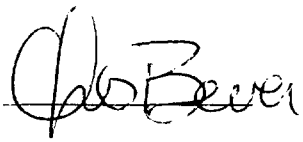
F. RACICOT
P.O. BOX 114
WAHNAPITAE, ONTARIO
P0M 3C0

Sep 23, 1997

Job #9740815

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm
76098	0.6	0.36	16	<5	4	0.2	<3	0.09	<.5	83	234	141	24.65	0.02	13
76099	0.3	0.52	81	<5	6	0.1	<3	0.07	<.5	78	381	33	12.67	0.03	7
76100	0.3	0.46	122	<5	6	0.2	<3	0.10	<.5	74	290	21	18.19	0.04	13
76101	0.2	0.50	19	20	15	0.2	<3	0.29	1.5	50	755	80	3.60	0.08	11
76102	0.4	1.51	9	12	4	0.2	<3	0.17	<.5	9	240	31	3.82	0.02	10
76103	0.2	1.08	7	20	44	0.2	<3	0.57	0.7	28	306	57	2.47	0.13	16
76104	0.2	1.96	9	21	198	1.4	<3	0.53	0.8	25	470	65	3.78	1.16	11

	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
76098	0.37	202	9	0.01	162	400	3	<2	<5	0.02	<5	2	0.04	16	6	64
76099	0.71	257	5	0.01	38	404	6	<2	<5	0.03	<5	3	0.07	27	<2	40
76100	0.61	241	3	0.01	40	316	4	<2	<5	0.03	<5	3	0.08	28	<2	61
76101	0.42	244	4	0.03	59	716	23	<2	<5	0.04	<5	11	0.03	31	<2	345
76102	1.31	515	2	0.01	11	603	6	6	<5	0.02	<5	8	0.19	61	<2	43
76103	0.87	310	<1	0.04	68	942	12	4	<5	0.03	<5	18	0.14	45	<2	63
76104	0.94	752	1	0.06	37	491	13	3	<5	0.04	<5	24	0.20	76	3	96

Certified By: 

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FRANK RACICOT
P.O. BOX 114
WAHNAPITAE, ONTARIO
POM 3C0

Dec 16, 1997

Job #9780014

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
76105	<.1	0.84	120	54	52	0.7	<3	0.20	<.5	230	340	116	23.61	<.01	6	0.72
76106	0.1	1.56	25	17	33	0.8	<3	0.22	<.5	23	306	61	9.86	0.04	7	1.26
76107	0.1	1.28	32	14	32	0.7	<3	0.26	<.5	53	837	<1	9.16	0.04	6	1.07
76113	<.1	1.23	13	11	22	0.6	<3	0.49	<.5	17	602	19	3.45	0.05	14	0.91
76114	1.0	0.59	34	15	90	0.6	<3	0.22	4.2	35	825	62	2.79	0.18	8	0.28
76115	<.1	2.51	<2	16	147	1.1	<3	0.44	<.5	13	433	11	4.72	0.82	17	1.16
76116	0.4	1.22	8	13	66	0.9	<3	0.54	1.1	31	326	141	3.92	0.43	37	1.21
76117	0.2	2.01	8	15	203	0.7	<3	0.17	<.5	4	264	<1	4.13	1.00	17	0.95
76118	0.7	1.12	6	14	24	0.4	<3	0.56	<.5	26	559	147	7.01	0.05	4	0.44
76119	<.1	1.28	16	12	48	0.9	<3	0.19	<.5	6	320	<1	5.39	0.09	6	0.88
76120	0.3	1.84	37	11	57	1.0	<3	0.25	<.5	30	649	23	8.51	0.02	7	1.38
76121	<.1	0.51	155	77	59	0.8	<3	0.07	2.3	469	436	105	27.74	<.01	3	0.40
76122	0.7	1.44	41	12	51	0.8	<3	0.16	<.5	60	494	95	9.62	0.10	8	1.11
76123	0.3	1.31	52	15	49	0.8	<3	0.22	<.5	28	422	42	9.48	0.14	10	0.89
76124	1.0	1.77	34	52	55	1.2	<3	0.23	<.5	59	234	219	21.60	0.01	13	1.33

	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se PPM	Si %	Sn PPM	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
76105	373	2	<.01	84	403	26	>10	4	<5	0.03	9	8	0.07	31	<2	285
76106	656	8	0.03	67	443	8	5.15	<2	<5	0.03	13	15	0.23	57	<2	99
76107	493	2	0.03	56	266	9	7.84	8	<5	0.03	6	13	0.20	56	<2	92
76113	356	2	0.08	58	629	5	0.45	<2	<5	0.03	6	13	0.24	60	<2	45
76114	198	12	0.03	152	612	254	1.92	7	<5	0.04	<5	10	0.15	34	5	1099
76115	710	2	0.05	58	657	15	0.17	<2	<5	0.02	<5	17	0.30	95	<2	93
76116	477	1	0.03	75	2503	274	1.56	3	<5	0.03	8	25	0.24	67	<2	138
76117	541	<1	0.03	22	471	8	0.11	<2	<5	0.02	<5	7	0.32	98	<2	92
76118	286	<1	<.01	42	1273	10	3.10	5	<5	0.03	<5	11	0.05	26	<2	46
76119	463	<1	0.05	30	531	17	1.67	2	<5	0.03	<5	11	0.25	71	<2	60
76120	775	<1	0.03	51	607	64	4.23	<2	<5	0.03	<5	7	0.24	83	<2	236
76121	277	<1	0.01	98	207	95	>10	8	<5	0.04	19	3	0.07	25	<2	92
76122	647	<1	0.03	31	406	161	5.54	4	<5	0.03	9	6	0.24	76	<2	117
76123	581	1	0.03	44	629	234	6.42	<2	<5	0.03	<5	8	0.19	75	<2	150
76124	733	<1	0.02	135	583	16	>10	<2	<5	0.03	8	7	0.15	77	<2	157

Certified By:

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

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

FRANK RACICOT
P.O. BOX 114
WAHNAPITAE, ONTARIO
POM 3C0

Dec 16, 1997

Job #9780014

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
76125	0.3	1.61	19	15	26	0.7	<3	0.36	<.5	22	514	30	5.76	0.06	8	1.33
76126	0.6	0.10	7	12	13	0.2	<3	0.02	<.5	29	971	13	1.12	<.01	<1	0.04
76127	0.7	0.38	13	17	21	0.4	<3	0.08	<.5	43	617	128	7.01	<.01	<1	0.23
76128	0.5	1.01	5	10	18	0.4	<3	0.37	<.5	20	813	78	3.94	0.02	6	0.65
76129	0.4	0.84	23	16	50	0.6	<3	0.25	<.5	36	456	16	7.39	0.13	5	0.63
76130	0.2	1.46	14	8	39	0.9	<3	0.25	<.5	19	466	28	7.84	0.03	11	1.03
76131	<.1	0.98	6	20	27	0.5	<3	0.30	<.5	27	458	29	7.14	<.01	9	0.70
76132	<.1	1.77	8	15	58	0.9	<3	0.42	<.5	27	769	53	4.36	0.46	7	1.28
76133	<.1	1.75	3	9	58	0.7	<3	0.42	<.5	31	717	56	4.31	0.44	7	1.26
76134	<.1	2.21	23	21	29	0.8	<3	0.52	<.5	16	228	97	6.30	0.01	11	1.91
76135	0.2	1.62	<2	14	48	0.8	<3	0.35	<.5	7	281	35	5.72	0.05	9	1.15
76136	0.7	0.72	10	74	73	0.6	<3	0.22	2.2	48	187	604	27.08	0.03	2	0.34
76137	0.6	1.72	6	27	72	1.0	<3	0.47	<.5	79	514	123	14.61	0.21	4	0.85
76138	0.7	0.62	33	129	79	1.0	<3	0.11	7.5	319	153	446	32.73	0.04	2	0.37
76139	0.8	0.59	9	35	37	0.5	<3	0.33	<.5	365	302	443	16.72	<.01	4	0.34

	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se PPM	Si %	Sn PPM	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
76125	604	<1	0.03	49	653	8	1.89	5	<5	0.02	13	10	0.23	66	<2	87
76126	83	10	<.01	24	33	14	0.09	8	<5	0.02	<5	1	<.01	23	<2	15
76127	182	12	<.01	55	64	16	3.48	3	<5	0.02	<5	7	0.02	20	<2	40
76128	447	2	<.01	39	388	8	0.88	3	<5	0.03	8	28	0.10	43	<2	62
76129	274	<1	0.04	35	375	9	5.66	3	<5	0.03	10	15	0.24	51	<2	46
76130	459	2	0.04	29	606	7	2.90	<2	<5	0.02	7	15	0.27	82	<2	52
76131	344	<1	0.03	40	466	9	5.26	<2	<5	0.02	7	12	0.17	46	<2	49
76132	604	1	0.05	62	669	13	0.67	<2	<5	0.02	7	17	0.26	81	<2	94
76133	592	1	0.04	60	734	8	0.74	3	<5	0.02	5	16	0.26	80	<2	92
76134	841	<1	0.04	29	796	19	1.91	<2	<5	0.02	12	17	0.29	86	<2	114
76135	703	<1	0.04	13	687	10	0.60	<2	<5	0.03	<5	20	0.25	67	<2	64
76136	556	<1	0.02	222	255	10	>10	<2	<5	0.03	<5	8	0.06	19	<2	153
76137	1028	<1	0.09	90	241	9	>10	<2	<5	0.03	<5	23	0.21	96	<2	238
76138	663	3	<.01	228	247	25	>10	4	<5	0.04	9	2	0.07	25	<2	136
76139	841	<1	0.02	125	299	13	>10	<2	<5	0.03	<5	8	0.07	23	<2	97

Certified By:

ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.
BOX 426
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1
TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

60359

Certificate of Analysis

Frank Racicot
Box 114
Wahnapitae, Ontario
P0M-3C0

August 28 97

Work Order # : 970702-A
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
32452	76001	6	<0.001	
32453	76002	201	0.006	
32454	76003	64	0.002	
32455	76004	<5	<0.001	
32456	76005	6	<0.001	
32457	76006	6	<0.001	
32458	76007	5	<0.001	
32459	76008	<5	<0.001	
32460	76009	<5	<0.001	
32461	76010	<5	<0.001	
32461	76010	<5	<0.001	Check
32462	76011	48	0.001	
32463	76012	11	<0.001	
32464	76013	13	<0.001	
32465	76014	<5	<0.001	
32466	76015	<5	<0.001	
32467	76016	26	0.001	
32468	76017	8	<0.001	
32469	76018	18	0.001	
32470	76019	26	0.001	
32470	76019	16	<0.001	Check
32471	76020	28	0.001	
32472	76021	88	0.003	
32473	76022	36	0.001	
32474	76023	<5	<0.001	
32475	76024	21	0.001	
32476	76025	<5	<0.001	
32477	76026	100	0.003	
32478	76027	45	0.001	
32479	76028	54	0.002	
32479	76028	77	0.002	Check

LF-30

Per: Des Power

ORIGINAL

ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

BOX 426

KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1

TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

60360

Certificate of Analysis

Frank Racicot
Box 114
Wahnapitae, Ontario
Pom-3co

August 28 97

Work Order # : 970702-A
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
32480	76029	157	0.005	
32481	76030	5	<0.001	
32482	76031	195	0.006	
32482	76031	120	0.004	Check

LF-30

Per:

ORIGINAL

ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.
BOX 426
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1
TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

60361

Certificate of Analysis

Frank Racicot
Box 114
Wahnapitae, Ontario
Pom-3co

August 28 97

Work Order # : 970703
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
32483	76032	<5	<0.001	
32484	76033	<5	<0.001	
32485	76034	6	<0.001	
32486	76035	5	<0.001	
32487	76036	5	<0.001	
32488	76037	5	<0.001	
32489	76038	<5	<0.001	
32490	76039	<5	<0.001	
32491	76040	<5	<0.001	
32492	76041	<5	<0.001	
32492	76041	<5	<0.001	Check
32493	76042	<5	<0.001	
32494	76043	<5	<0.001	
32495	76044	<5	<0.001	
32496	76045	<5	<0.001	
32497	76046	<5	<0.001	
32498	76047	<5	<0.001	
32499	76048	<5	<0.001	
32500	76049	<5	<0.001	
32501	76050	<5	<0.001	
32501	76050	<5	<0.001	Check
32502	76051	<5	<0.001	
32503	76052	<5	<0.001	
32504	76053	15	<0.001	
32505	76054	38	0.001	
32506	76055	<5	<0.001	
32507	76056	<5	<0.001	
32508	76057	16	<0.001	
32509	76058	11	<0.001	
32510	76059	<5	<0.001	
32510	76059	5	<0.001	Check

Per: D. Roberts

ORIGINAL

ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.
BOX 426
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1
TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

60362

Certificate of Analysis

Frank Racicot
Box 114
Wahnapitae, Ontario
Pom-3co

August 28 97

Work Order # : 970703
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
32511	76060	30	0.001	
32512	76061	<5	<0.001	
32513	76062	<5	<0.001	
32513	76062	<5	<0.001	Check

LF-30

Per: _____

ORIGINAL

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

FRANK RACICOT
c/o DOLBIE LAB

Page 1

Sep 15, 1997

Job# D 970727

Accuracy	Sample # Customer		Gold ppb	Gold Oz/t
1				
2	76063		<5	<0.001
3	76064		<5	<0.001
4	76065		<5	<0.001
5	76066		<5	<0.001
6	76067		<5	<0.001
7	76068		<5	<0.001
8	76069		<5	<0.001
9	76070	(76069-A)	<5	<0.001
10	76076		<5	<0.001
11 Check	76077		<5	<0.001
12	76077		<5	<0.001
13	76078		<5	<0.001
14	76079		<5	<0.001
15	76080		6	<0.001
16	76081		<5	<0.001
17	76082		<5	<0.001
18	76083		<5	<0.001
19	76084		<5	<0.001
20	76085		<5	<0.001
21 Check	76086		<5	<0.001
22	76086		<5	<0.001
23	76087		<5	<0.001
24	76088		<5	<0.001
25	76089		<5	<0.001
26	76090		<5	<0.001
27	76091		<5	<0.001
28	76092		6	<0.001
29	76093		<5	<0.001
	76094		9	<0.001
			<5	<0.001

rtified By:

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use) W9840.00009
Assessment Files Research Imaging

41I13SE2001 2.18056 MONCRIEFF 900

of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the ... review the assessment work and correspond with the mining land holder. ... Recorder, Ministry of Northern Development and Mines, 6th Floor.

RECEIVED
JAN 16 1998
A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.
- Please type or print in ink.

2.18056

1. Recorded holder(s) (Attach a list if necessary)

Name	Client Number
ROBERT S LIPICI	301553
Address	Telephone Number
P.O. BOX 2097, POSTAL STN 'A'	(705) 692-3661
145 MAGILL ST, WALDEN INDUSTRIAL PARK SUDBURY, ONT. P3A 4R8	Fax Number (705) 692-4850
Name	Client Number
RONALD J. SUOMU	300846
Address	Telephone Number
WALDEN WOOD ROAD, R.R. #1	(705) 8660484
WHITEFISH, ONT. P0M 3E0.	Fax Number

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☒ Geotechnical: prospecting, surveys, assays and work under section 18 (regs) ☐ Physical: drilling, stripping, trenching and associated assays ☐ Rehabilitation

Work Type	Office Use
LINE CUTTING & MAG. PROSPECTING, MAPPING ASSAY etc.	Commodity
	Total $ Value of Work Claimed 112,008
Dates Work Performed From 1 Day 6 Month 97 Year To 15 Day 9 Month 97 Year	NTS Reference
Global Positioning System Data (if available) Township/Area CRAIG & MONCRIEFF M or G-Plan Number	Mining Division Sudbury Resident Geologist District Sudbury

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name	Telephone Number
DAN PATRIE EXPLORATION LTD	705 8442113
Address	Fax Number
BOX 45 MASSEY, ONT. P0P 1P0	705 844 2057
Name FRANK RACICOT	Telephone Number
Address P.O. BOX 114 WAHNAPITAE ONT P0M 3C0	Fax Number
Name	Telephone Number
Address	Fax Number

RECEIVED
JAN 16 1998
GEOSCIENCE ASSESSMENT OFFICE

4. Certification by Recorded Holder or Agent

I, RONALD J. SUOMU (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent		Date
Ronald J Suomu		JAN 15, 1998
Agent's Address	Telephone Number	Fax Number
WALDEN WOOD ROAD, R.R #1 WHITEFISH, ONT. P0M 3E0	8660484	

0241 (02/98)

Deemed April 16/98

the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W9870.00009

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26, 825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8, 892	$ 4,000	0	$4,892
1	1163731	15		6000✓		
2	1163730	15	21,540	6000✓	15540	4000
3	1163729	16	22976	6400✓	18576	4000
4	1163728	15	21540	6000✓	15540	4000
5	1163727	16	22976	6400✓	18576	4000
6	1163726	16	22976	6400✓	~~16576~~ 12168	4408
7	1163732	9		3600✓		
8	1163724	16		6400✓		
9	1163723	3		1200✓		
10	1163722	15		6000✓		
11	1163720	15		6000✓		
12	1163717	15		6000✓		
13	1163716	15		6000✓		
14	1163715	15		6000✓		
15	1163714	15		6000✓		
	~~1211018~~ 1211019	9 Column Totals 9		3600✓ 3600✓	60400	
			$ 112,008	$ 91,600	~~80808~~	$20,408

I, RONALD J. SUOMU (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing	Date
Ronald J Suomu	JAN 15 1998

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☑ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

2.18056

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp

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JAN 16 1998
GEOSCIENCE ASSESSMENT OFFICE

Deemed Approved Date	Date Notification Sent
Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)	

0241 (02/96)

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W9890.00009

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

2.15[illegible]

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
GEOLOGICAL SURVEY	99.8 MAN DAYS	275.00/DAY	27,448
GEOTECHNICAL	32.2 MAN DAYS	275.00/DAY	8,853
ANALYTICAL-ASSAYS	105 Au SAMPLES 130 ICAP SAMPLES	14.12/SAMPLE 10.84/SAMPLE	3,008
Associated Costs (e.g. supplies, mobilization and demobilization).			
FIELD SUPPLIES - (FLAGGING, RADIOS, THIN SECTIONS)			430
Transportation Costs			5,943
Food and Lodging Costs			646
		Total Value of Assessment Work	~~43,320~~ 46,328

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GEOSCIENCE ASSESSMENT OFFICE

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK × 0.50 = Total $ value of worked claimed.

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, RONALD J SUOMELA (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as ~~ROBERT S LIPIC~~ RONALD J. SUOMELA (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature	Date
Ronald J Suomela	JAN 15 1998

0212 (02/96)

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)
W9870.00009

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

2.18056

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
LINE CUTTING	96.5 KM	$ 400.00	$ 38,600
VERY RUGGED COUNTRY			
MAGNETOMETER	96.5 KM	$ 120.00	$ 11,580
SUPERVISION			$ 3,000
REPORT & PLOTTING			$ 2,500
Associated Costs (e.g. supplies, mobilization and demobilization).			
Transportation Costs			
Food and Lodging Costs			
		Total Value of Assessment Work	$ 55,680

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JAN 16 1998
GEOSCIENCE ASSESSMENT OFFICE

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK × 0.50 = Total $ value of worked claimed.

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, RONALD J. SUOMU (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as ROBERT S. LIPIC / RONALD J. SUOMU (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature	Date
Ronald J Suomu	JAN 15, 1998

0212 (02/96)

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

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

Telephone: (888) 415-9846
Fax: (705) 670-5881

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

May 26, 1998

ROBERT STANLEY LIPIC
PO Box 2097, Postal Stn 'A'
145 Magill Street, Walden Industrial Par
SUDBURY, ONTARIO
P3A 4R8

Dear Sir or Madam:

Submission Number: 2.18056

Subject: Transaction Number(s):	W9870.00009	**Status** Approval After Notice

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Bruce Gates by e-mail at gatesb2@epo.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 12319

Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.18056

Date Correspondence Sent: May 26, 1998 **Assessor:** Bruce Gates

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9870.00009	1163730	CRAIG, MONCRIEFF	Approval After Notice	May 24, 1998

Section:
14 Geophysical MAG
17 Assays ASSAY
12 Geological GEOL

The revisions outlined in the Notice dated April 9, 1998, have been corrected.

Assessment work credit has been redistributed, as outlined on the attached Distribution of Assessment Work Credit sheet, to better reflect the location of the work.

Correspondence to:
Resident Geologist
Sudbury, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):
ROBERT STANLEY LIPIC
SUDBURY, ONTARIO

RONALD JOHN SUOMU
WHITEFISH, ONTARIO

Correspondence ID: 12319

Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s).

Date: May 26, 1998

Submission Number: 2.18056

Transaction Number: W9870.00009

Claim Number	Value Of Work Performed
1163731	19,520.00
1163730	14,813.00
1163729	11,670.00
1163728	13,490.00
1163727	20,272.00
1163726	12,484.00
1163724	9,759.00
Total: $	102,008.00

Correspondence ID: 12319

IN SERVICE SEPTEMBER 12, 1990.

ZONE 17

ULSTER TOWNSHIP

MUNSTER TOWNSHIP

CRAIG TOWNSHIP

HESS TOWNSHIP

HART TOWNSHIP

GENEVA

STRALAK

Straight Lake

Marion Lake

Present

Benny Creek

Bannerman Creek

Bannerman Lake

Dowes Lake

Loon Lake

Moon Lake

Johnson Lake

Alaska's Lake

Mud Lake

Geneva Creek

Spanish Lake

C.P.R. Line 1004

CPR

HWY 144

S 1163726

S 1163728

S 1163730

S 1163731

S 1163732

S 1163727

S 1163729

S 1163712

CL51

CL55

BENNY

CLM382

1076345

S 1211024

1230804

1076346

S 1210938

S 1211015

S 1211017

1230758

S 1211016

S 1211014

1214943

S 1211023

S 1211022

S 1211021

1230759

1076342

1076343

218656
MAG
GEOL

200

411382001 218656 MONCRIEFF

SMD 4086

88 03

Ministry of Natural Resources

Ministry of Northern Development and Mines

Ontario

INDEX TO LAND DISPOSITION

PLAN

G-4086

TOWNSHIP

MONCRIEFF

DATE OF ISSUE

MAR 25 1998

PROVINCIAL RECORDING OFFICE - SUDBURY

M.N.R. ADMINISTRATIVE DISTRICT

SUDBURY

MINING DIVISION

SUDBURY

LAND TITLES/REGISTRY DIVISION

SUDBURY

Scale 1:20 000

1000 Metres 0 1000 2000 Metres

1000 Feet 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Feet

Contour Interval 10 Metres

SYMBOLS

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

DISPOSITION OF CROWN LANDS

Patent
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only

Lease
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only

- Licence of Occupation
- Order-in-Council: OC
- Cancelled
- Reservation: R
- Sand & Gravel: G

AREAS WITHDRAWN FROM DISPOSITION

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

	Description	Order No.	Date	Disposition	File
R	SEC. 36/80	W.4/82	14/6/82	S.R.O.	137685
S	SEC. 36/80	W.59/86		S.R.O.	

NOTES

SUBDIVISION OF THIS TOWNSHIP INTO LOTS AND CONCESSIONS WAS ANNULLED 30th JUNE 1953.

DOWES LAKE DEVELOPMENT PLAN DATED 11th JUNE 1970. FILE 183095

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

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

The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only.

Ministry of Natural Resources
Ontario

Ministry of Northern Development and Mines

INDEX TO LAND DISPOSITION

PLAN
G-2952

TOWNSHIP
CRAIG

DATE OF ISSUE
MAR 25 1998
PROVINCIAL RECORDING OFFICE - SUDBURY

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

Scale 1:20 000

Metres 500 0 1000 2000 Metres
Feet 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 11 000

Contour Interval 10 Metres

SYMBOLS

Boundary
- Township, Meridian, Baseline
- Road allowance: surveyed
- shoreline
- Lot/Concession: surveyed
- unsurveyed
- Patent: surveyed
- unsurveyed
- Right of way: road
- railway
- utility
- Reservation
- Cliff, Pit, Pile
- Contour — 20 —
- Interpolated
- Approximate
- Depression
- Control point (horizontal) △
- Flooded land
- Mine head frame
- Pipeline (above ground)
- Railway: single track
- double track
- abandoned
- Road: highway, county, township
- access
- trail, bush
- Shoreline (original)
- Transmission line
- Wooded area

DISPOSITION OF CROWN LANDS

Patent
- Surface & Mining Rights ●
- Surface Rights Only ◒
- Mining Rights Only ◒

Lease
- Surface & Mining Rights ■
- Surface Rights Only ◪
- Mining Rights Only ◪
- Licence of Occupation ▼
- Order-in-Council OC
- Cancelled ⊗
- Reservation Ⓡ
- Sand & Gravel Ⓢ

AREAS WITHDRAWN FROM DISPOSITION

M - Mining Rights Only
SRO - Surface Rights Only
M + S - Mining and Surface Rights

	Description	Order No.	Date	Disposition	File
Ⓡ	SEC.36/80	W 4/82	14/0..82	S.R.O.	137685

NOTE:

THE SUBDIVISION OF THIS TOWNSHIP INTO LOTS AND CONCESSIONS IS ANNULLED AUGUST 21, 1953.

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

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

The disposition of land, location of fabric and parcel boundaries this index was compiled for administrative purposes only.

2.18056
MAG
GEOL

41I13SE2001 2.18056 MONCRIEFF 210

CLAIM 1163724

CLAIM 1163726

CLAIM 1163727

CLAIM 1163728

CLAIM 1163729

CLAIM 1163730

CLAIM 1163731

CLAIM 1163732

CL51

N

Scale 1:5000

100 0 100 200 300

(meters)

2.18056

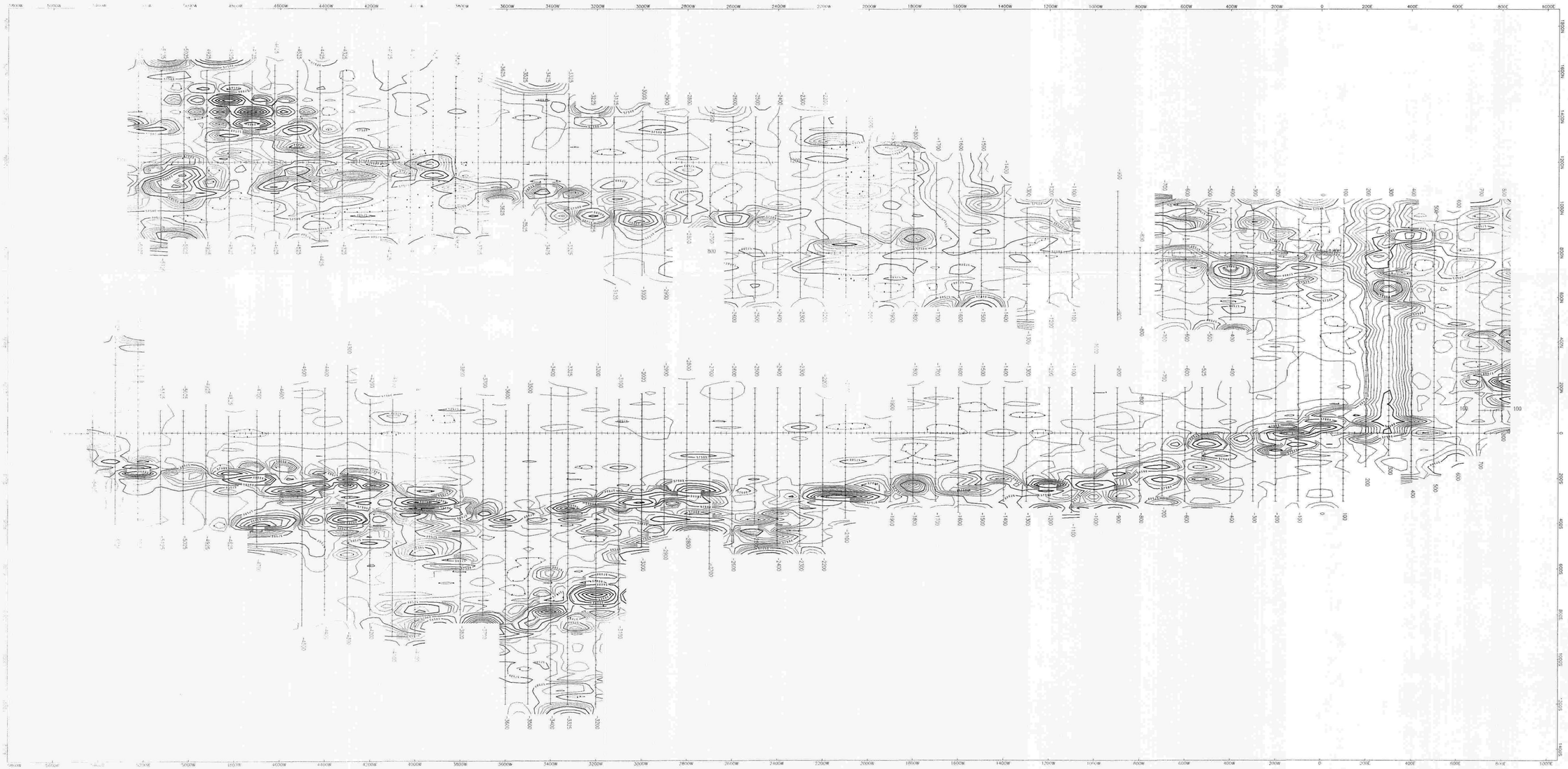
Mining Technologies International Inc

Benny Grid East
Magnetic Total Field Plot

Plotted by : T. Irsinno
Date : 97-09-29

Dan Patrie Exploration Limited

41I13SE2001 2.18056 MONCRIEFF 220



N

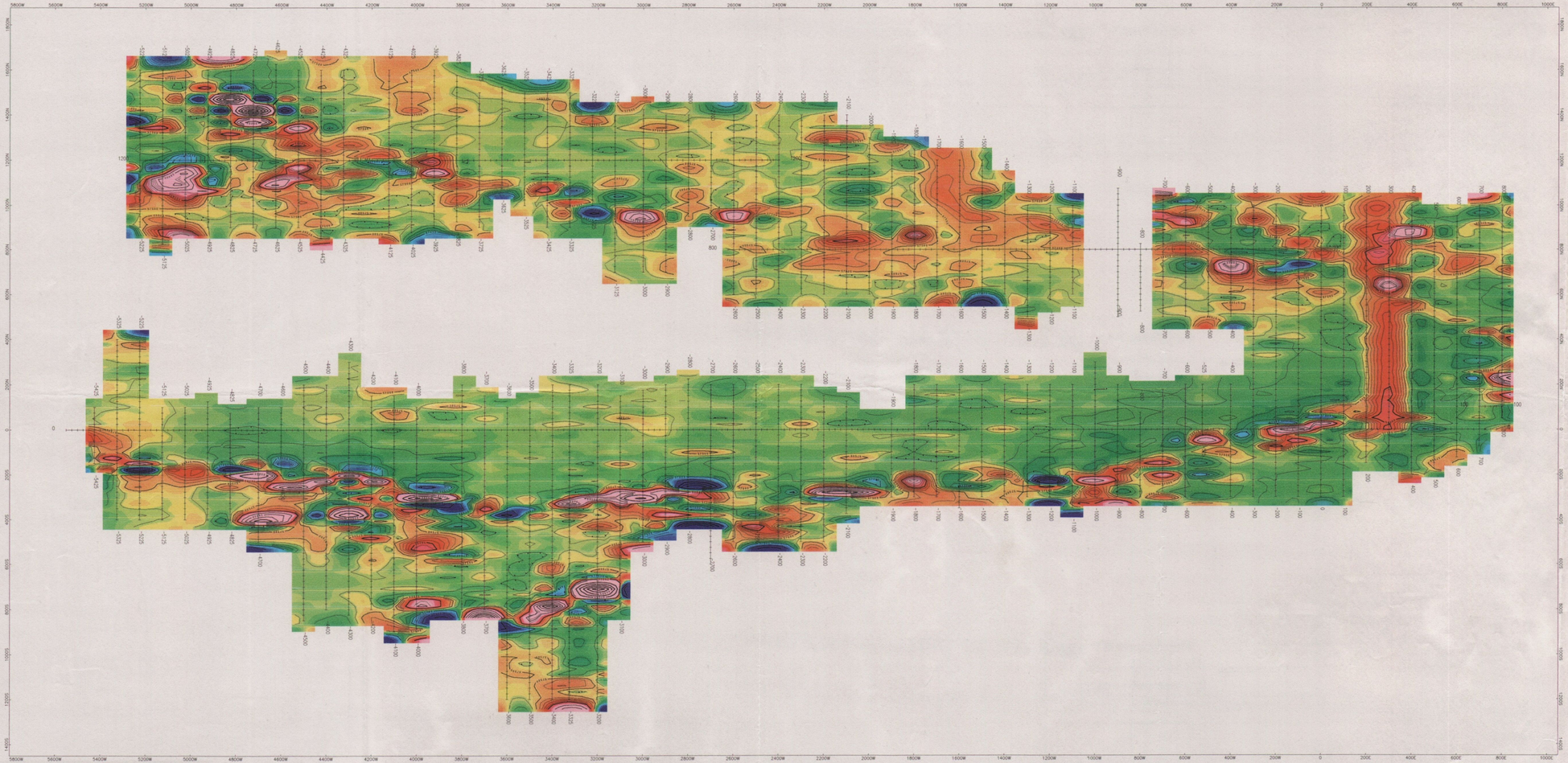
Scale 1:5000

100 0 100 200 300 400
(metres)

2.18056

Mining Technologies International Inc
Benny Grid East Magnetic Total Field Plot
Plotted by : T. Insinna Date : 97-09-29
Dan Patrie Exploration Limited

411138E2001 2.18056 MONCRIEFF 230



2.18056

Mining Technologies International Inc

Benny Grid East
Magnetic Total Field Plot

Plotted by: T. Inglima
Date: 97-09-29

Dan Patrie Exploration Limited

LEGEND

Instrumentation : OMNI Plus Field Magnetometer
OMNI IV Base Station Magnetometer
Reference Field : 57325.5 nT
Datum Subtracted : 0.0 nT
~~Line Spacing : 100 Metres~~
Station Spacing : 25 Metres
Contour Interval : 200 nT
Personnel: D. Patrie, B. Patrie
Survey Date: September 1997

Scale 1:5000

100 0 100 200 300
(metres)

Mining Technologies International Inc
Benny Grid East Magnetic Total Field Plot
Plotted by : T. Insinna Date : 97-09-29
Dan Patrie Exploration Limited

41113SE2001 2.18056 MONCRIEFF 250