



42A05NE2021 2.19548 TURNBULL

010

Report on:

PROSPECTING GRAB SAMPLES AND VLF EM-16 FLAG SURVEY

in

TURNBULL TOWNSHIP

CLAIM # 1218739

**PORCUPINE MINING DIVISION
CLAIM MAP SHEET # G-3250
NTS SHEET 42 A/5**

**LONGITUDE: 81 DEGREES, 43 MINUTES WEST
LATITUDE: 42 DEGREES, 29 MINUTES NORTH**

Submitted to:

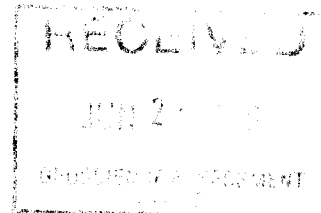
ONTARIO PROSECTOR'S ASSISTANCE PROGRAM 1998

in fulfillment of grant number OP 98-333

2.19548

Submitted by:

**PETER J.A. BILENKI
Prospector's Licence K22227
Client number 108346**



June 9, 1999

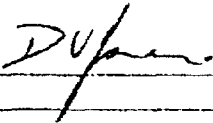
Please be advised that following claim holder(s) has given the listed parties authorization to act as an agent for the filing of assessment work on any claims that he is the recorded holder of in Turnbull Twp.

This authorization remains in effect until further notice is given.

Claim Holder

David V. Jones **client # :** 149868
Box 1513 **phone:** (705) 235-2474
South Porcupine, Ont. **fax:** (705) 235-2213
P0N 1H0

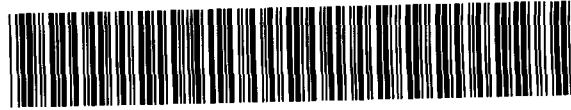
Claim Holders Signatures



Authorized Agent for Filing Assessment Work

Peter Bilenki **client # :** 108346
Box 1043 **phone:** (705) 360-5177
Schumacher, Ont. **fax:** same
P0N 1G0


June 9/99



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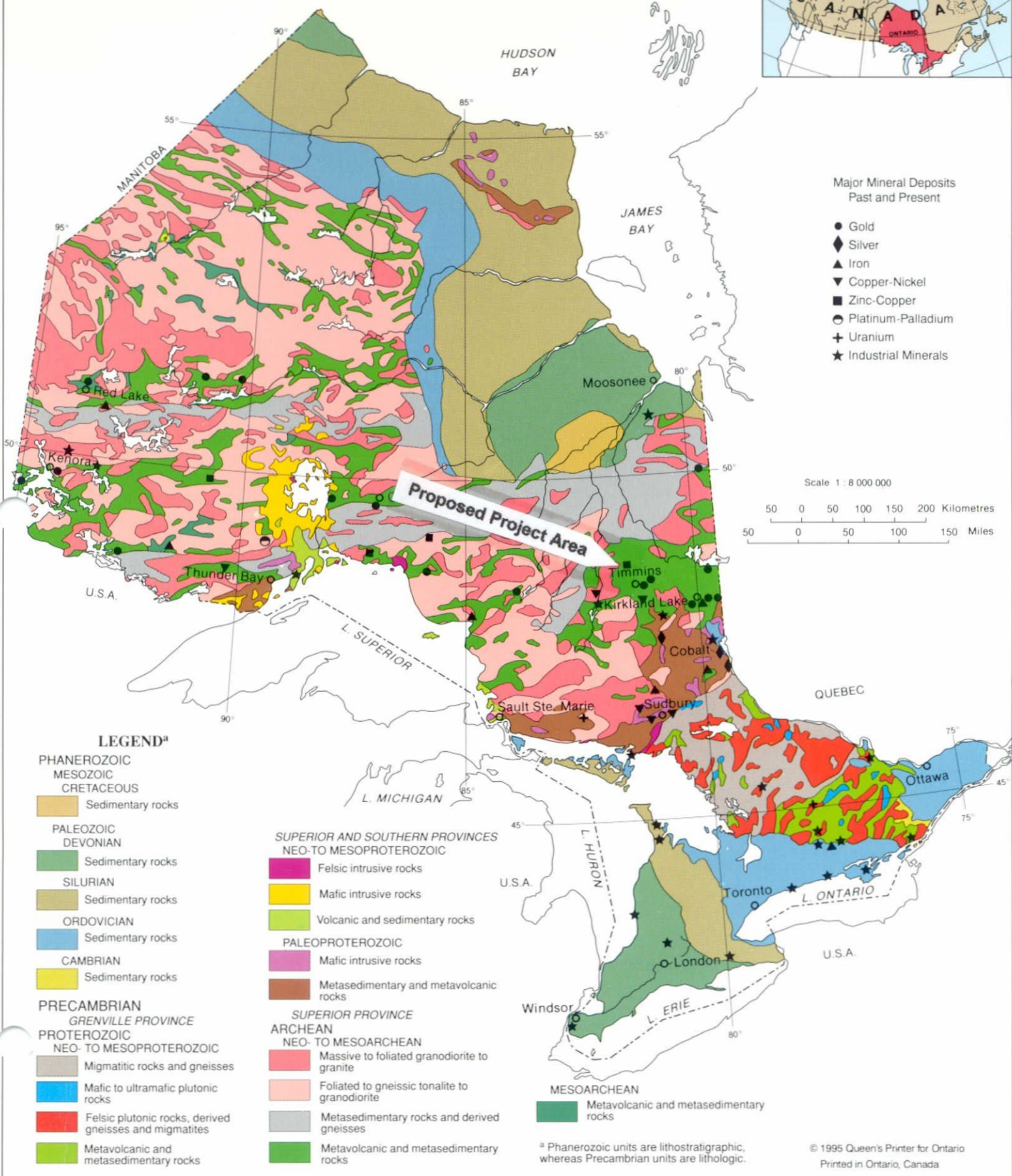
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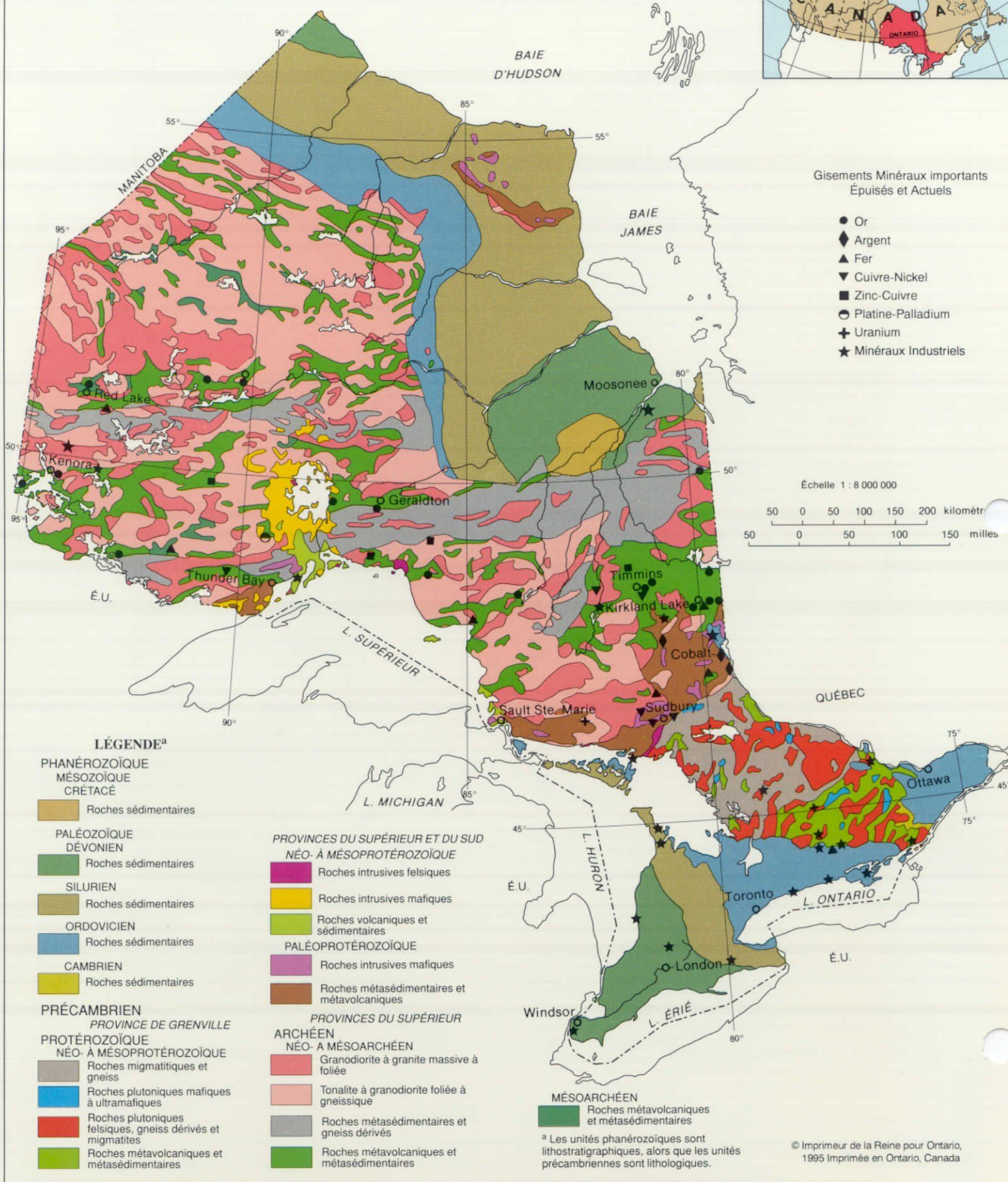
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GEOLOGY AND PRINCIPAL MINERALS OF ONTARIO



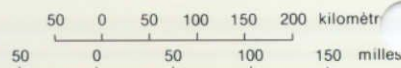
GÉOLOGIE ET MINÉRAUX PRINCIPAUX DE L'ONTARIO



Gisements Minéraux importants Épuisés et Actuels

- Or
- ◆ Argent
- ▲ Fer
- ▼ Cuivre-Nickel
- Zinc-Cuivre
- Platine-Palladium
- ⊕ Uranium
- ★ Minéraux Industriels

Échelle 1 : 8 000 000



LÉGENDE^a

PHANÉROZOÏQUE MÉSOZOÏQUE CRÉTACÉ

■ Roches sédimentaires

PALÉOZOÏQUE DÉVONIEN

■ Roches sédimentaires

SILURIEN

■ Roches sédimentaires

ORDOVICIEN

■ Roches sédimentaires

CAMBRIEN

■ Roches sédimentaires

PRÉCAMBRIEN

PROVINCE DE GRENVILLE

PROTÉROZOÏQUE NÉO- À MÉSOARCHÉEN

■ Roches migmatitiques et gneiss

■ Roches plutoniques mafiques à ultramafiques

■ Roches plutoniques felsiques, gneiss dérivés et migmatites

■ Roches métavolcaniques et métasédimentaires

PROVINCES DU SUPÉRIEUR ET DU SUD NÉO- À MÉSOARCHÉEN

■ Roches intrusives felsiques

■ Roches intrusives mafiques

■ Roches volcaniques et sédimentaires

PALÉOPROTÉROZOÏQUE

■ Roches intrusives mafiques

■ Roches métasédimentaires et métavolcaniques

PROVINCES DU SUPÉRIEUR

ARCHÉEN

NÉO- À MÉSOARCHÉEN

■ Granodiorite à granite massive à foliée

■ Tonalite à granodiorite foliée à gneissique

■ Roches métasédimentaires et gneiss dérivés

■ Roches métavolcaniques et métasédimentaires

MÉSOARCHÉEN

■ Roches métavolcaniques et métasédimentaires

^a Les unités phanérozoïques sont lithostratigraphiques, alors que les unités précambriennes sont lithologiques.

STATEMENT OF GEOPHYSICAL EXPLORATION AND PROSPECTING EXPERIENCE

From 1964 to the present, I have had **twelve years of ground geophysical surveying and staking experience as a helper and as a crew chief** of three to five person crews with vertical and horizontal loops, magnetometers, and IP equipment. The instruments I have read include in part: Canico's own VL, McPhar VL, EM 16, JEM, Omni-Plus, and tripod, fluxgate and proton procession magnetometers. I worked for Canico, Selco, Falconbridge, Mespi Mines, Shield Geophysics, Georex and Exsics.

With Canico, I used maps of airborne geophysical results to spot the locations of anomalies from helicopters; made an initial VL setup to find the first crossover on the conductor's strike line; moved the setup and verified the original crossover; then compassed, blazed, and flagged a baseline along the conductor's strike line and then ran at least seven two thousand foot traverse lines to define the conductor's location. I took the EM readings and prospecting notes and was responsible for the plotting of the EM and mag results.

During the last two years I have staked claims with Pye Explorations, Timmins, and Bay Lake Explorers, Latchford; worked as transmitter man on an Apex Max-Min II for Geoserve, South Porcupine; and continued to stake claims with ForPro Resources, Porcupine, until the present.

** The flagged VLF survey and prospecting I did on claims in Godfrey Twp., Timmins, during the fall, 1995, kept the claims in good standing and contributed to the optioning of them.

** The flagged VLF survey and prospecting I did with the assistance of the **Ontario Prospector's Assistance Program** on claims in Haultain Twp. 5 miles due north of Gowganda during the summer, 1997:

- verified the location of the two anomalies identified on the **1990 Ontario Geological Survey's airborne electromagnetic and total intensity magnetic survey maps 81416 and 81415, Shining Tree Area;**
- verified that the two conductors are zones of disseminated sulphides;
- showed the location of several more anomalies and test pits within the west end of the claim block;
- produced assay results from samples that contained weak base metal and precious metal values (- the best base metal sample of 4468 ppm copper was taken from an island in the Montreal River;) and
- contributed to keeping the claims in good standing.

With the help of the **Ontario Prospector's Assistance Program grant for 1997**, I gained a one-third interest in the Haultain claim block.

With the help of the **Ontario Prospector's Assistance Program grant for 1998**, I again earned a one-third interest in an OPAP project area that has yielded a best base metal assay of **>20000 PPM CU (2.1%)** and a best gold result of 361 PPB Au30. It continues to seem likely that the 2.1 % copper will contribute to the optioning of the property.

STATEMENTS OF OWNERSHIP/RESPONSIBILITIES

The holders of claims 1218739 and 1218740 are:

J. Kevin Filo
Filo Exploration Services Ltd.
535 Bartleman Avenue
Timimins, ON P4N 4X2

David Jones
ForPro Resources Ltd
909 Government Road
South Porcupine, ON P0N 1H0

In return for my Ontario Prospector's Assistance Program work on their property this year, the holders have agreed to equally share a one-third interest in the claim block with me. (See final page of OPAP 1998 project proposal re: agreement)

Name and address of the person who logged the samples and interpreted the geophysical results for this report:

J. Kevin Filo, HBSoc., Geology
535 Bartleman Avenue
Timimins, ON P4N 4X2

Name and address of the person who researched the assessment files in the Timmins Mining Recorder's Office; supervised the fieldwork; and prepared the report:

Peter Bilenki
P.O. Box 1043
Schumacher, ON P0N 1G0

Name and address of the person who helped complete the field work and assisted in the compilation of the field information for this report:

Karen Beith
P.O. Box 1043
Schumacher, ON P0N 1G0

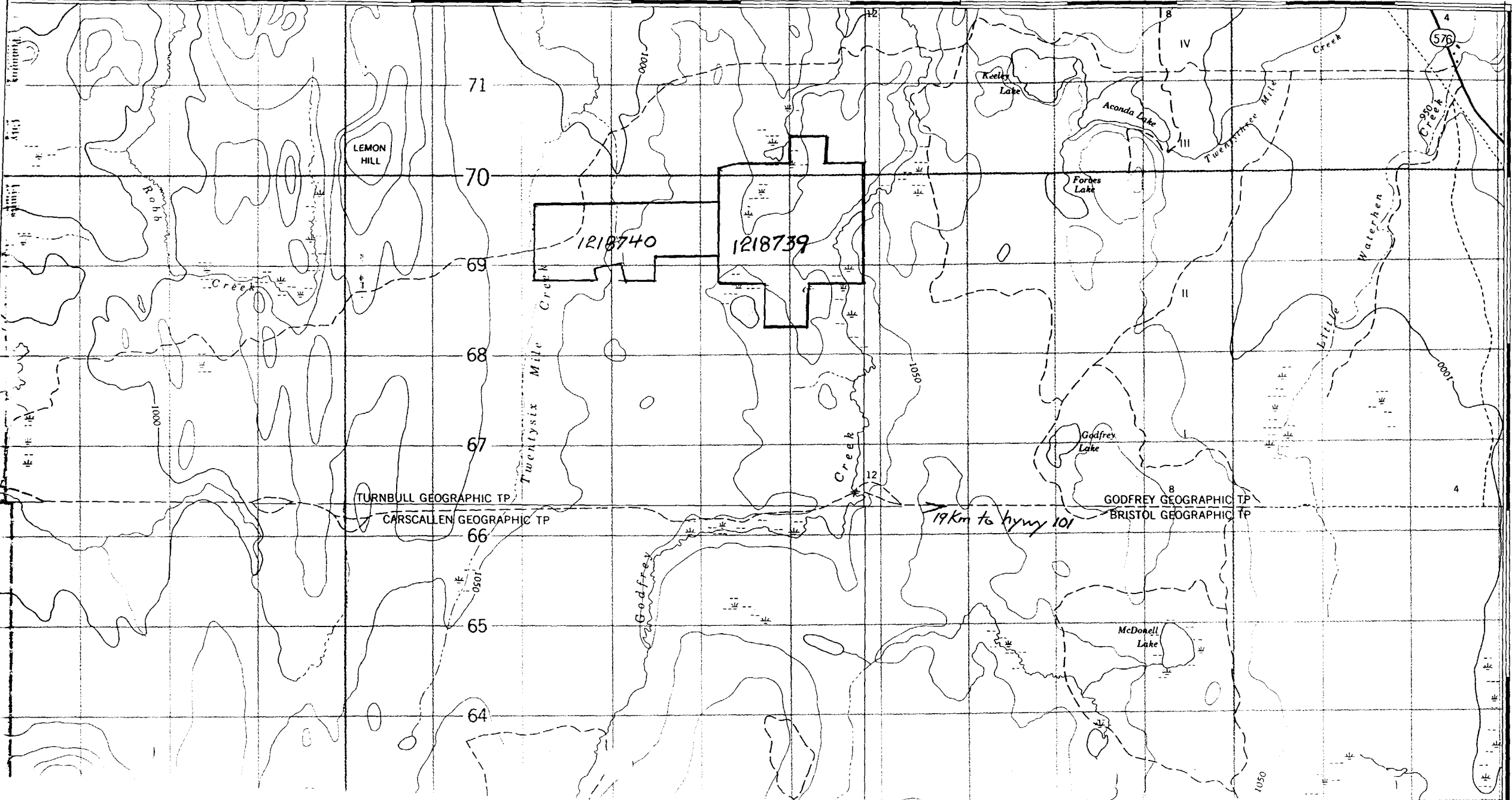
PROJECT SITE ACCESS

The proposed project site is 20 km (air) west of Timmins City Hall. Road access to it is had by driving west on highway 101 to a Mallette Lumber road and following it north off the highway at Mallette's yard and then west along the Turnbull/Carscallen and Godfrey/Bristol township line to the bridge over Godfrey Creek. Godfrey Creek runs north through the eastern third of claim #1218739. Providing that the water level remains usable, it takes 45 to 60 minutes by canoe to reach the project area. Air access can be had by helicopter to BLO/500mN on the bank of Godfrey Creek.

Kamiskotia 14 km

47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 462000' E 81°30'

48°30'
70
69
68
67
66
65
64



AREA AND PROPERTY GEOLOGY

The regional geology map for this area (ODM Map 2205) shows that Turnbull Twp. is underlain by an intercalated suite of felsic and mafic volcanics that have been intruded by both felsic and mafic intrusives. The northern and extreme western portions of the township are covered by mafic intrusives. The volcanic package extends from the central portion of the proposed project's property to the eastern extremity of the township. The volcanic package is dominated by felsic volcanics. The felsic intrusives in Turnbull are principally in the central to eastern portion of the township as well, where they have intruded the volcanics. All of the aforementioned rocks have been intruded by a series of late northerly-trending diabase dykes.

The strike of the volcanics in Turnbull Twp is a west/northwest orientation. There are a number of large, northerly-trending faults in Turnbull Twp. and a single large easterly-trending fault in the east central portion of the township.

Regional maps suggest that the subject property is underlain by felsic volcanics that have been intruded by porphyritic felsic intrusives. Assessment reports (i.e. T-384) have confirmed the presence of felsic volcanics on the property, and some shearing with associated mineralization and alteration. Both gold and base metal mineralization have been found within the felsic package.

Written by: J. Kevin Filo, HBSoc., Geology.
535 Bartleman St. Timmins, ON (705) 268-0371

ECONOMIC GEOLOGY

The property of claim #1218739 was originally staked prior to 1959 by John Larche and Alfred Rousseau following the discovery of a float with copper values of 5 to 10% (fig. 3).

In 1964, Mespi Mines drilled (fig. 3) into the area of the project's present claim #1218739 and produced copper values of 1.61% over 1.6 feet and 4.72% over 0.5 feet at 181 and 206 feet respectively with trace values of gold at the same depths.

An economic geology survey conducted Sept. 8 - 17, 1964 by Mespi Mines Limited within the area of present claim #1218739 was discussed by J. Duncan Crone in a letter dated June 4, 1965: "Sub-economic sulphide deposits and very low grade gold showings have been encountered." "Prospecting and sampling of numerous quartz veins has indicated the presence of small sub-economic quantities of gold." (T-788)

A multi-township map posted in the Timmins Mining Recorder's Office contains information compiled from the Erlis MDI data base. Of the 23 occurrences of metals noted in Turnbull Township; 4 are of gold occurrence, 8 are of discretionary gold occurrence. (figs. 5,6,7)

In a report prepared by Fonton Scott, P.Eng. in November, 1967 for John Canic, President of Pyrotex Mining and Exploration Company Limited, he describes the mineral deposits in the ten claims (fig. 8) held by the company within what is now the sixteen units of claim #1218739:

"Two types of copper mineralization were observed on the property. To date, 19 separate occurrences have been discovered.

Within the rhyolites narrow, chalcopyrite veins or lenses generally trend in an east-west direction. Widths are generally less than a couple of inches, and chalcopyrite is usually the only sulphide observed. These veins are marked by a pronounced chloritization of their wall rocks, imparting a dark green colour to the normally light grey rhyolites.

The second type of copper mineralization consists of north-trending chalcopyrite - quartz veins up to two feet in width conformably cutting the north trending basic dyke. No megascopic wall rock alteration was observed.

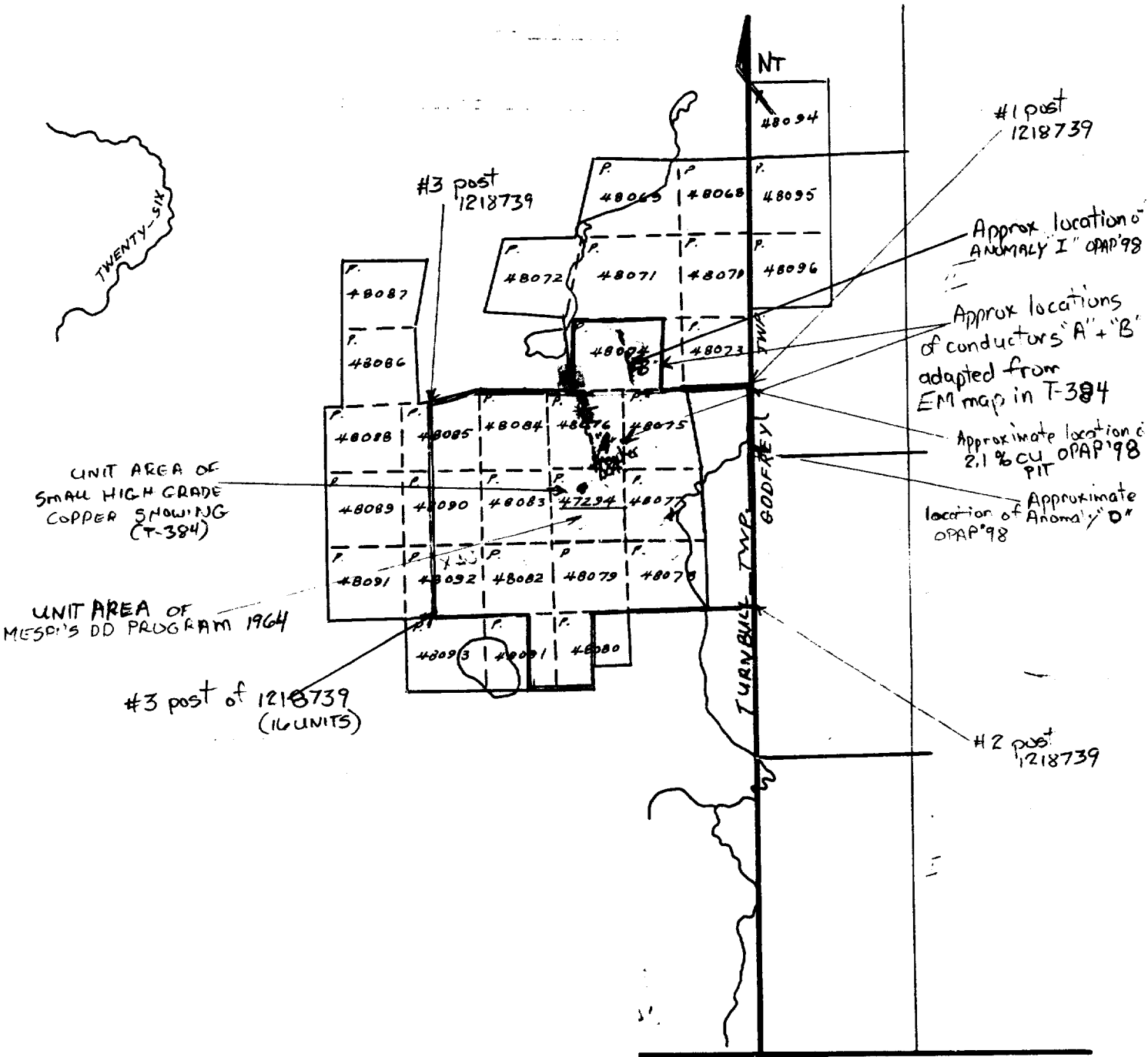
The largest of these veins so far discovered has been traced for a minimum length of fifty feet, with an average width of six inches, and has been intersected by drilling at a vertical depth of 150 feet. Visual estimates and core assays suggest a grade of 4 - 5% copper. Random surface exposures suggest that this particular vein structure may have a length in excess of four hundred feet." (T-1417)

Most of the known conductors in the township have been classified as bearing sub-economic values of metals. Many have surface showings of mineralization.

The "General Geology" section of Fonton Scott's November, 1967 report to Pyrotex reads as follows: "Ontario Department of Mines Map 2046 shows this section of Turnbull Township to be underlain by a complex of acid and basic extrusives extending west from the Mattagami River through Godfrey and Jamieson Townships. Within this complex, copper and zinc deposits have been developed at the Kamiscotia, Jameland, Canadian Jamieson, and United Obabki properties." (T-1417)

claim #
 47294 = chalcopyrite float
 ROUSSEAU-LARCHE

from T-384
 P.B.
 FIG 3



ROUSSEAU-LARCHE PROPERTY

(SOGEMINES DEVELOPMENT COMPANY LIMITED)

(CHIPMAN LAKE MINES LIMITED)
 Turnbull Township
 and Godfrey Township

Scale: 1 inch - 40 chains

See: Kennco Exploration T-504 in Turnbull
 Phillips-O'Neil Prop. T-330 in Godfrey
 Rual Porcupine T-475 " "
 GeoScientific T-578 in Turnbull
 See: Mespi Mines T-788

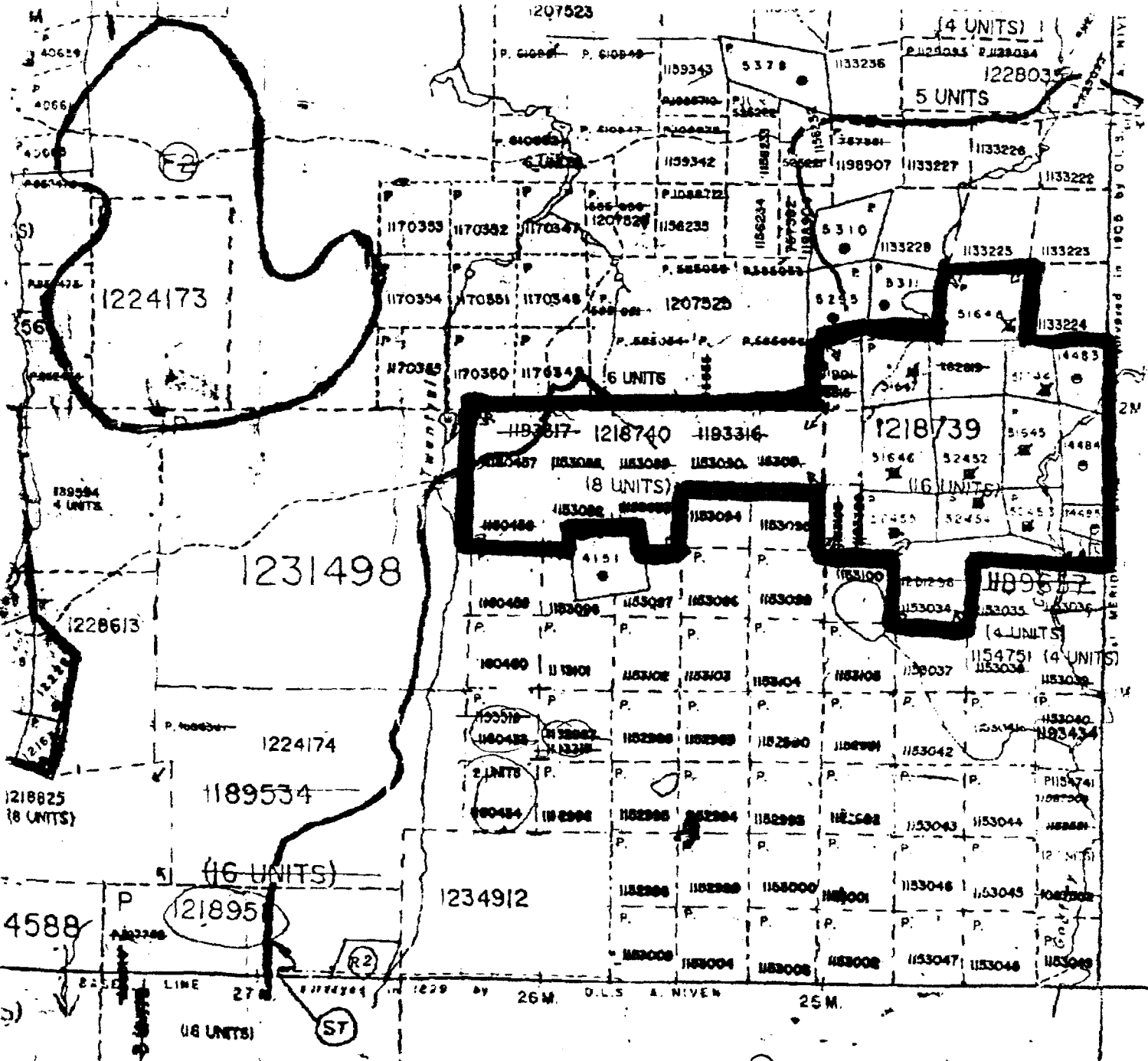
See Falcon BRIDGE T-1524

Turnbull Twp #s 1218739 and 1218740

Assessment work performed on 1218739; some of the value of the work is to be applied to 1218740.

(PB)

Assessment work performed during Sept. 9, 1998 to Nov. 11, 1998.



arscallen Tp.

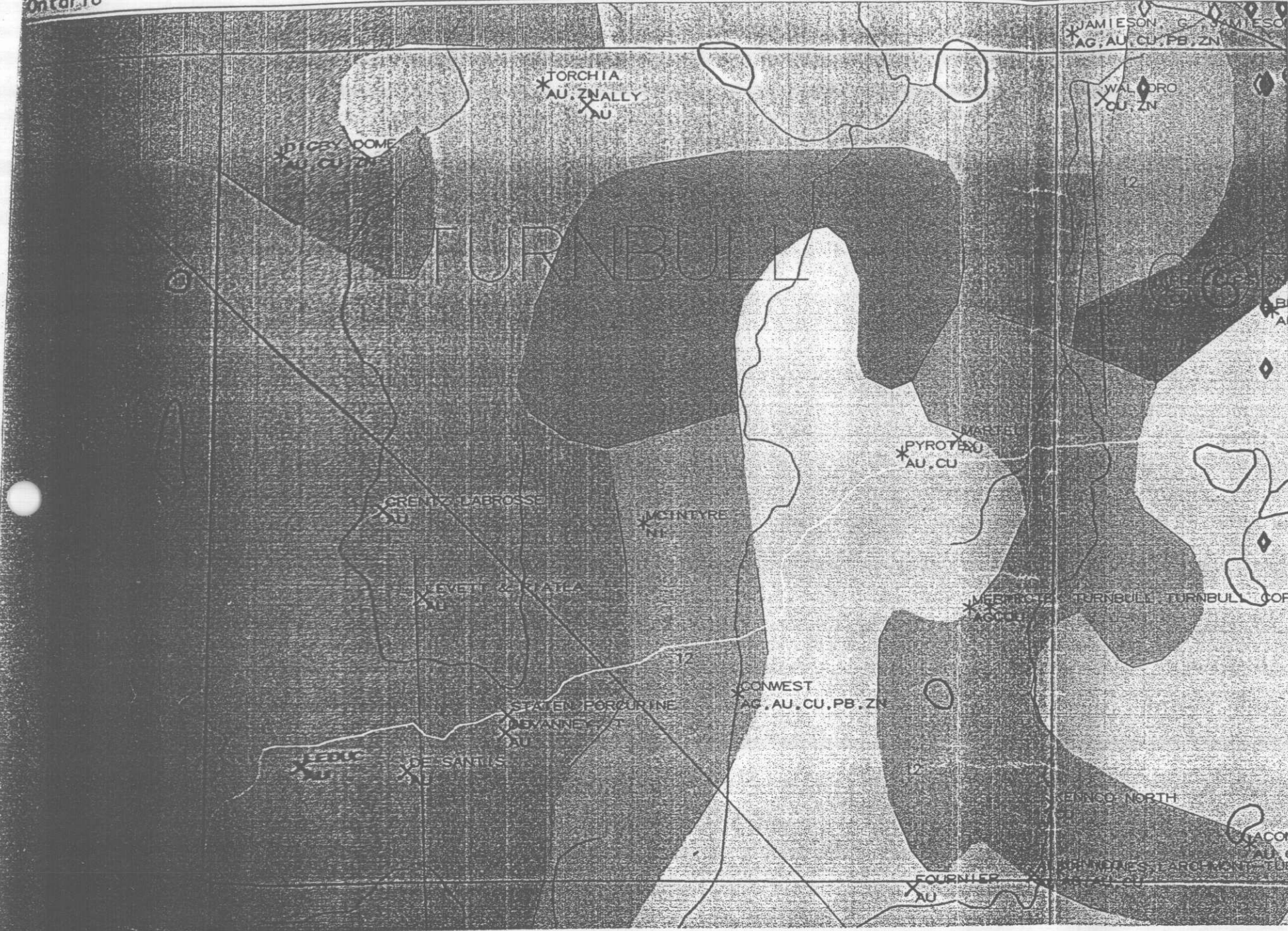
Peter Bilenki June 9/99



Ministry of
Northern Development
and Mines



98/05/14-14:23-erc1-...
Sheet North 1 of 1, East 1 of 1
UTM zone 17 NAD 27



ERLIS DATABASES

Assessment Files	Publications
Airborne Geophysics	Bedrock Geology
Ground Geophysics	Energy
Geology	Geochemistry
Geochemistry	Geophysics
Diamond Drilling	Mineral Deposits
Physical	Surficial Geology
Other	Miscellaneous
Selected Feature	Selected Feature

Mineral Deposits	Drill Holes
Discretionary Occurrence	Diamond Drill Hole
Occurrence	Wedged Diamond Drill H
Prospect	Overburden Drill Hole (Auger, Wacker)
Developed Prospect Without Reserves	Percussion Drill Hole
Past Producing Mine Without Reserves	Reverse Circulation (Sonic)
Developed Prospect With Reserves	Underground Drilling
Past Producing Mine With Reserves	Other
Producing Mine	Rotation of Symbol Denotes Azimuth (e.g.

Topographic	Lithochemistr
Levee/Dyke	Station Samples = 1
Inland Water	Station Samples > 1
Rivers and Streams	
Major roads	
Minor roads	
Rail Line	

Date : 14-MAY-1998
Time : 02:27:24

Ontario Ministry of Northern Development and Mines
Earth Resource & Land Information System (ERLIS)
MINERAL DEPOSIT INVENTORY SUMMARY REPORT

Page : 1 of 2
Report : MDILS02

MDI Num	Deposit Name	Status	Principal Commodity	Reserve?	Production?	Visit?	Assays?
MDI-42A05NE-00009	FOURNIER	DISCRETIONARY OCCURRENCE	GOLD				
MDI-42A05NE-00017	MARTEL	DISCRETIONARY OCCURRENCE	GOLD				
MDI-42A05NE-00018	GRENTZ LABROSSE	DISCRETIONARY OCCURRENCE	GOLD				
MDI-42A05NE-00019	STATEN PORCUPINE	DISCRETIONARY OCCURRENCE	GOLD				
MDI-42A05NE-00020	LEVETT & RIATLA	DISCRETIONARY OCCURRENCE	GOLD				
MDI-42A05NE-00021	LEDUC	DISCRETIONARY OCCURRENCE	GOLD				
MDI-42A05NE-00022	DEVANNEY, T.	DISCRETIONARY OCCURRENCE	GOLD				
MDI-42A05NE-00023	DE SANTIS	DISCRETIONARY OCCURRENCE	GOLD				
MDI-42A05NE-00034	KENNCO NORTH	DISCRETIONARY OCCURRENCE	COPPER				
MDI-42A05NE-00088	KENNCO	OCCURRENCE	GOLD				
MDI-42A05NE-00089	MESPI	OCCURRENCE	COPPER SILVER				
MDI-42A05NE-00090	CONWEST	OCCURRENCE	COPPER GOLD SILVER				
MDI-42A05NE-00111	MCINTYRE	OCCURRENCE	NICKEL				
MDI-42A05NE-00112	PYROTEX	OCCURRENCE	COPPER				
MDI-42A05SE-00011	ALSOF MINES LARCHMONT-TURNBULL	DISCRETIONARY OCCURRENCE	GOLD				
MDI-42A05SE-00038	PYROTEX TURNBULL TURNBULL COPPER	OCCURRENCE	COPPER				
MDI-42A05SE-00039	DIGBY DOME	OCCURRENCE	GOLD				
MDI-42A12SE-00014	LALLY	DISCRETIONARY OCCURRENCE	GOLD				

Figure 7

Date : 14-MAY-1998
Time : 02:27:24

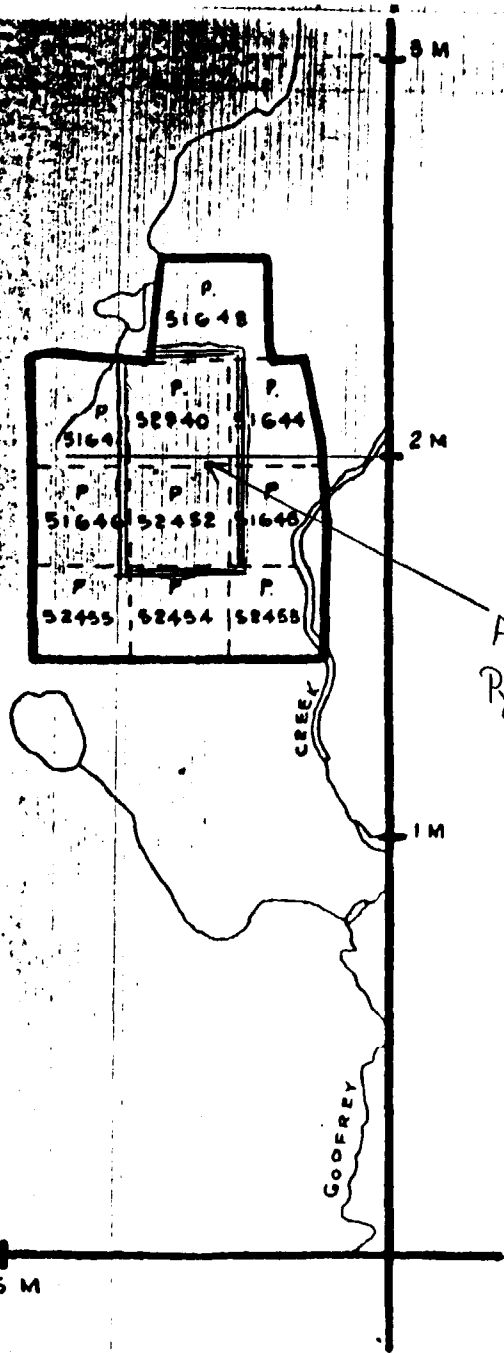
Ontario Ministry of Northern Development and Mines
Earth Resource & Land Information System (ERLIS)
MINERAL DEPOSIT INVENTORY SUMMARY REPORT

Page : 2 of
Report : MDILS02

<u>MDI Num</u>	<u>Deposit Name</u>	<u>Status</u>	<u>Principal Commodity</u>	<u>Reserve?</u>	<u>Production?</u>	<u>Visit?</u>	<u>Assays</u>
MDI-42A12SE-00058	TORCHIA	OCCURRENCE	ZINC				

Total Mineral Deposits: 19

Figure 8

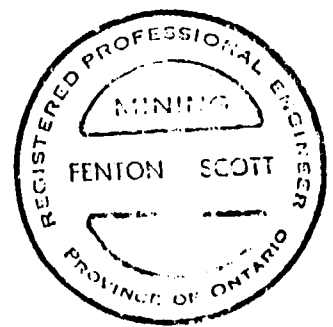


GODFREY TWP

Area of DD program by Pyrotex during 1968

ASSESSMENT WORK

T.1417



Fenton Scott P. Eng.

PROPERTY LOCATION MAP
 PYROTEX MINING AND
 EXPLORATION COMPANY LTD.
 TURNBALL TOWNSHIP
 ONTARIO
 SCALE 1" = 2040

DRAWN BY C. J. [unclear]

**SUMMARY OF PREVIOUS WORK compiled from the assessment files
in the Timmins Resident Geologist's Office May 7 - 14, 1998.**

Geological mapping

T-504	Kenco Exploration Limited	summer 1952	on present claim	# 1218739
T-788	Mespi Mines Limited	September 1964	" " "	#1218739
T-788	Mespi Mines Limited	June 1965	" " "	#1218739
T-1524	Falconbridge Nickel Mines Ltd.	"1972 field season"	" " "	#1218739

Prospecting

T-384	Rousseau-Larche Property (Sogemines Development Company Limited) (Chipman Lake Mines Limited)	1959	on present claim	#1218739
T-504	Kenco Exploration Limited (no mention of results on this file)	summer 1952	" " "	"
T-788	Mespi Mines Limited	September 1964	" " "	"

EM Surveys

T-384	Rousseau-Larch Property (Sogemines Development Company Limited) (Chipman Lake Mines Limited)	1959	ground	" " "	#1218739
T-788	Mespi Mines Limited	March 1963	air-borne	" "	"#1218739-740
T-788	Mespi Mines Limited	July 1963	air-borne	" "	"#1218739-740
T-882	Mespi Mines Limited	May 1964	air-borne	" "	"#1218739-740
T-882	Mespi Mines Limited	July-Nov 1964	ground	" "	#1218739
T-882	Mespi Mines Limited	January 1969	ground	" "	"
T-1417	Pyrotex Mining and Explortation	October 1967	ground	" "	"
T-1439	Mogar Mines Limited		ground	" "	#1218740
T-1504	Noranda Exploration Limited	Jan-Feb 1972	ground	" "	"
T-1668	Noranda Exploration Limited	October 1974	ground	" "	#1218739
T-2904	Chevron Canada Resources Ltd.	Aug 2,3, 1984	air-borne	" "	"

Magnetometer Surveys

T-788	Mespi Mines Limited	July 1963	air-borne	" "	"#1218739-740
T-882	Mespi Mines Limited	July-Nov 1964	ground	" "	#1218739
T-1417	Pyrotex Mining and Exploration	November 1967	ground	" "	"
T-1439	Mogar Mines Limited		ground	" "	#1218740
T-1504	Noranda Exploration Limited	Jan-Feb 1972	ground	" "	"
T-1524	Falconbridge Nickel Mines Ltd.	July-Aug 1972	ground	" "	#1218739
T-1668	Noranda Exploration Limited	October 1974	ground	" "	#1218739

Diamond Drilling

T-788	Mespi Mines Limited	summer 1964	6 holes	" " "	#1218739
T-1750	Northim Mines Inc.	February 1976	?	" " "	"
T-1417	Pyrotex Mng & Expl	-?-Jan/68,-?-Jul/68-?	15? holes		#1218739

Starting in the late 1950's and ending in the mid '80's, several companies (above list) have investigated the area of the present claims with their search emphasis on base metals. For the most part, they recorded the presence of low and discretionary gold values almost as an aside.

One notable exception I read was J.P. Sheridan's letter/report dated December 6th 1960 to the President and Directors of Chipman Lake Mines. Sheridan, P.Eng., Mining Geophysicist, is writing about an EM survey on the area of present claim #1218739: "The programme was instigated in an effort to trace any possible extension to the known small high-grade copper showing located on claim P47294 (see fig. 3) of your property, and to detect any

similar larger zones which might occur in the vicinity." (T-384) It is worth noting that the EM survey he is interpreting was done before the Kidd Creek model was known.

In his interpretation of results on page 6 he writes:

"Conductor A could possibly represent the extension of the zone containing the original high grade copper showing. It, therefore, is considered a worthy target for further investigation.

Conductor B is known to be associated with a sheared silicified rhyolite containing minor sulphide mineralization. The extent of the sulphide mineralization and shear observed in the vicinity of Conductor B on line 14 West is not sufficient to have caused the anomaly representing conductor B. It may, therefore, be reasoned that more and perhaps better mineralization of a similar type will occur in the immediate area and therefore it is reasoned that Conductor B also represents a target worthy of further investigation." (T-384)

On the second page, he writes: "... a quartz vein was sampled on the south west portion of your property which assayed \$6.00 in gold across 7 ft." (file T-384). He recommends: "Intensive prospecting including geological reconnaissance, trenching and sampling with a packsack drill be carried out in the vicinity of the known conductors A and B *with the area of the gold showing being the prime targets.*" (italics, author's) The accompanying EM map in T-384 shows conductors A and B, but not the location of the gold-bearing quartz. I have been unable to find any further mention, or a drawing other than the EM map's location of A and B, for the area of this gold sample's location in T-384 or any other file but, the block Sheridan is discussing, and the present claim #1218739 cover much common ground and share about 80% of their boundaries. I think that the south-west portion of the block Sheridan mentions is the mid-north section of present claim # 1218739 (compare fig. 3 with fig. 4). The ERLIS MDI does not include this mention of gold (figs.5,6,7).

A **geology map with a scale of 1" - 200'** by Mespri Mines Limited to cover base metal sampling work completed between September 8 and October 10, **1964**, provides a detailed description of sample locations and of actual and discerned rock types' locations throughout **all of claim #1218739 and throughout all but the two most western units of claim #1218740** (file T-788).

A geology map by Falconbridge Nickel Mines Limited also provides good outcrop detail of their search for base metals in the proposed project's area (T-1524).

In the literature, several professional recommendations for further work on the anomalies in the proposed project's area suggest IP surveys. I have not found a record of an IP survey in the files.

SUMMARY OF OPAP 1998 ASSESSMENT WORK performed during Sept 4 - Nov 13.

BLO/00 was established at the # 2 post of claim number 1218739 and set at 045 degrees; i.e. extending NW from BLO/00. The baseline was compassed, hand-chained, flagged and marked at 25m intervals. Traverses were compassed and hip-chained. Stations were flagged and marked at 25m intervals along the traverses as follows: L100N/025mE, L100N/050mE, etc. and L100/025mW, L100/050mW, etc.

BLO reached 1980mN at linepost 400mE of claim post # 4/1218739. Lines 20N and 21N were extended to their west sides on the property as the boundaries allow (figs 10 & 11).

By comparing this summer's OPAP grid with the DDH map in file T-778 at the Timmins Mining Recorder's Office, it is apparent that compassing along L15N and, to a lesser extent, along L16N, (figs.10 & 11) was affected by the magnetic rock identified in the top quarter of previous claim # 48076 (fig. 3) in DDH's T-1 and T-2 (T-778) during Mespi Mines' drilling program in 1964.

T-1 "14.0 - 85.6 feet - 40% Ferromagnesian (amphibole) 10% magnetite with ilmenite"

T-2 "12.0 - 45.5 feet - 40% Ferromagnesian -chiefly amphibole, 10% magnetite with ilmenite"

Prospecting (fig.10) for samples was done along the complete claim boundaries with the exception of the boundary lengths from L18N/480mE to linepost 800mE, 400mN of # 4/1218739 and from the linepost 800mE, 400mN of 4/739 to L18N/800mE.

Although prospecting for samples was done along and between all the traverse lines of the grid in effort to be as thorough as possible, the sites of previous trenching, pitting; and diamond drilling that were carried out by the various companies between 1952-1976 (see above) were difficult to discern unless they were on open outcrop as most of them have been recovered by soil, trees and smaller plant growth.

The following were taken from locations of previous work:

Sample # 91, taken from a loose rock 2m from the NW end of a 6m x 2m x 2m deep NW/SE trench at L12N/625mE yielded 48 PPM Cu and 160 PPM Zn.

Sample # 114, taken 3m north of L11N/800mE from a loose 1' x 2 1/2' boulder in a 25m x 2m x 1m deep NS trench yielded < 5 PPB Au30.

Sample # 64, taken at 15m east of L16N/450mE and 6m north of a DDH collar yielded 68 PPM Cu and 31 PPM Zn.

Sample # 35, taken from the **debris** beside a 6m x 3m x 2m deep **pit** which is **in open outcrop** 23m south of # 1-1218739 on the Turnbull/Godfrey Twp. line at grid reference L10N/925mE, yielded **2.1% Cu**. This finding may contribute to the optioning of the property.

No significant gold assay results occurred to coincide with J.D. Sheridan's statement of December 6, 1960 (T-384) "... a quartz vein was sampled on the south west portion of your property which assayed \$6.00 in gold across 7 ft." (pg 9)

The **VLF readings** (fig 11) were taken at twenty five meter intervals along complete traverse lines 1 to 3 incl.; the west side of L5; complete lines 6 and 7; the east side of L8; the west sides of lines 10, 11 and 12; and complete lines 13 to 21 incl.

The readings indicate the presence of 14 anomalies as drawn on the map (fig.11) and discussed in the enclosed data analysis portion of this report.

1980m baseline prospected

24706m traverses prospected plus further prospecting along claim boundaries and between all lines

26.686km total grid

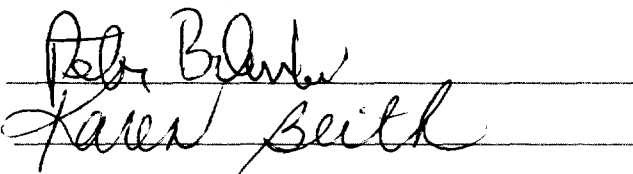
169 samples taken

18.660km VLF

774 VLF stns

Peter Bilenki Licence K22227

Karen Beith Licence M25825



Analysis of VLF-EM Data for Bilenki
Turnbull 1998 OPAP Project

General Comments:

A number of VLF EM anomalies were detected during the course of the survey on this project. The data from this survey is very noisy suggesting there is some interference from conductive overburden. This author was not involved in the actual field work on this project, but the data presented in the accompanying map on which this interpretation is based is believed to be reliable and collected in a professional manner. The field technician faced in a northerly direction along the lines while taking each reading. The individual anomalies are discussed below:

Anomaly A:

This is a 200 m. long anomaly that trends in a NW direction from L2 N.- L4 N. The anomaly is strongest on line 3 N. The quadrature response tends to follow the in-phase suggesting a poor conductor and possibly some overburden response. The conductor weakens quite quickly to the east and west of line 3N. It would be prudent to verify this anomaly with I.P. to confirm it is indeed a bedrock conductor.

Anomaly B:

This anomaly is almost east west trending, and it is about 300 m. in length from line 3N to line 5N. There is a strong in phase response on all three lines. The quadrature is tending to follow the in phase to some extent suggest a weak to moderate conductor, possibly associated with some overburden. This anomaly is thought to be caused by a bedrock response. It would be prudent to carry out some horizontal loop EM or induced polarization surveys to reaffirm this anomaly is indeed a bedrock anomaly and also find out the dip of the anomaly prior to drill testing it.

Anomaly C:

This is a short anomaly extending from L6N-L7N. The in phase response on this anomaly is very strong on line 6N, and on both lines the quadrature response has a negative inflection suggesting that this anomaly is not associated with conductive overburden. This anomaly is thought to be caused by a bedrock source. Further, geophysics, such as horizontal loop EM or induced polarization should be done over this anomaly to confirm the dip and strike orientation of the anomaly prior to any drill testing.

Anomaly D:

This anomaly is a short anomaly proximal to the boundary of the property. The anomaly extends from line 7N-8N. There is a strong in phase response on L7 and a weak response on L8. The out of phase response is flat and negative. This anomaly is typical of case studies shown by Geonics for a bedrock shear zone. Just north of this anomaly a strong in

phase response is building and another conductor will likely parallel this anomaly. Sulphide mineralization was noted roughly 25 m. across the boundary beyond the end of line 8, this shoulder building up is likely related to this mineralization, and may have effected the response on Anomaly D as well due the proximity of the two anomalies.

Anomaly E:

This is a single line anomaly on Line 10N. It is not believed to be a bedrock response.

Anomaly F:

This is a short EM anomaly extending from L18N-L19N. This anomaly is thought to be a very weak bedrock source, possibly related to a structure. The response is similar to that found in case studies for a shear in the Geonic's case study references.

Anomaly G:

This anomaly strikes in a NW direction on L15N-16N. It has a very strong in phase response but a very poor crossover. It is possibly a weak conductor associated with conductive overburden, the conductive zone may be related to a structure as well.

Anomaly H:

This anomaly strikes in a E-W direction from L12N-14N. The type of response for this anomaly is similar to that of anomaly G just described previously, and the cause of this anomaly is suspected to be similar.

Anomaly I:

This anomaly is a strong anomaly with an E-W strike from L14N-16N. It has a strong in phase response on lines 14N and 15N. This anomaly is thought to be a definite weak to moderate bedrock anomaly. Further geophysics such as horizontal loop EM or induced polarization should be carried out over this anomaly to confirm its strike and dip orientation prior to drill testing.

Anomaly J:

This anomaly is proximal to a large creek and anomaly B and it strikes E-W on L4N-L5N. This anomaly is weak and the suspected cause of this anomaly is conductive overburden.

Anomaly K:

This is a single line anomaly on L6N. This anomaly is thought to be associated with conductive overburden.

Anomaly L:

This anomaly extends from L11 to L15 N and it strikes is a N-S direction. The anomaly seems to have been the focus of some drilling by previous operators according to very rough location data from assessment files. Some narrow intersections of chalcopyrite were noted within felsic volcanics. No significant conductive horizons appears in the drill logs. (Pyrotex, Assessment File Report T1417)

Anomaly M:

This is also a N-S striking anomaly from L12N to L14N. This anomaly may have been evaluated according to rough location data from assessment files (Mespi Mines). Some narrow Cu intersections were found, however once again no distinct conductive horizon was noted.

Handwritten notes:
1
HBS (Geo) 1980

Anomaly N:

This anomaly occurs precisely on a traverse line (16N/175mW) where, travelling westward, several hundred meters of swampland meet a one hundred or so meter expanse of bedrock that is covered with a foot or two of mossy overburden and contains approx fifty meters of outcrop within the hundred along the line before the line drops back into swampland (fig. 10 & 11). Therefore, it seems quite acceptable that "N" occurs due to the topographical contact.

Handwritten signature:
Peter Bilinski

RECOMMENDATIONS EXTRACTED FROM ANALYSIS OF VLF-EM DATA

Anomaly A: -- An IP survey to confirm if "A" is a bedrock conductor.

Anomaly B: -- An HEM or IP survey to reaffirm if this anomaly is indeed a bedrock anomaly and to find out the dip of the anomaly prior to drill testing it.

Anomaly C: -- An HEM or IP survey to confirm the dip and strike orientation of "C" prior to drill testing it.

Anomaly I: -- An HEM or IP survey to confirm the strike and dip orientation prior to drill testing.

APPENDIX 1
SAMPLES DESCRIPTIONS

Sample 1 Felsic Volcanic: Light grey color on weathered surface. Grey very fine grained fresh surface, looks somewhat chert like in appearance to some extent. Possibly, this could be classified as a cherty rhyolite.

Sample 2 Felsic Volcanic: Tan colored to bleached white weathered surface. Grey colored fresh surface that is very fine grained. No significant sulphide.

Sample 3 Felsic Volcanic: As per sample 4.

Sample 4 Felsic Volcanic: Bleached white weathered surface. Very fine grained, light grey fresh surface. No significant sulphides or veining.

Sample 5 Intermediate to Mafic Volcanic: This sample has a light grey weathered surface. The fresh surface is a medium grey color and the sample is medium to fine grained. One cube of pyrite was noted.

Sample 6 Felsic Volcanic: As per description for sample 12.

Sample 7 Felsic Volcanic: As per description for sample 12. (Assay for Au)

Sample 8 Felsic Volcanic: Some iron carbonate on weathered surface. On fresh surface a contact between altered and unaltered section. Unaltered portion grey in color, light grey and a few quartz eyes, this section fine grained. Altered section sericitic and some brown carbonate. Occasional speck of pyrite noted. (Assay for Au, Cu, Zn)

Sample 9 Quartz Vein: Bull white quartz vein, no sulphide. (Assay for Au)

Sample 10 Felsic Volcanic: Bleached white weathered surface. Evidence of a few angular fragments on weathered surface. Fresh surface is light grey in color and very fine grained. Some minor fabric and no significant sulphide.

Sample 11 Felsic Volcanic: As per sample 10 except no fragments noted.

Sample 12 Felsic Volcanic: Bleached white weathered surface. This sample is fine grained and light grey on the fresh surface. No significant sulphides noted, but some brown gossan on shear planes. Also some brown carbonate blebs noted. This sample is strongly sheared. (Assay for Au)

Sample 13 Felsic Volcanic: As per sample 14

Sample 14 Felsic Volcanic: Bleached white weathered surface, Light grey colored fresh surface, fine grained with some brown iron carbonate blebs. Very rare and very minor fine pyrite noted, less than 0.5%. Some evidence that a fabric (weak shear) is present in sample. (Assay for Au)

Sample 15 Felsic Volcanic: Tan colored weathered surface. Some brown iron carbonate noted on weathered surface and fresh surface. Fresh surface is light grey in color and fine to medium grained. There is a distinct fabric present in this sample(weak shear) and some minor pyrite, less than 0.5% (Assay for Au, Cu, Zn)

Sample 16 Felsic Volcanic: Bleached white weathered surface with some brown iron carbonate. This sample is light grey and fine grained on fresh surface, the sample is from a shear zone and there is some alteration (sericite?) but weak. (Assay for Au)

Sample 17 Felsic Volcanic: Bleached white weathered surface. Light grey fine grained fresh surface. Substantial cubic pyrite noted in this sample 1-2% of sample. Sample exhibits a weak fabric. There is also blebs of iron carbonate and some minor quartz stringers with iron carbonate as well. (Assay Au, Cu, Zn)

Sample 18 Mafic Volcanic: Green colored weathered surface. Black fine grained fresh surface. Some gossan along a fracture plane. No significant sulphide or veining. (Assay for Au)

Sample 19 Intermediate to Mafic Volcanic: Brown weathered surface with lots of iron carbonate. Light grey fine grained sheared sample with some minor finely disseminated sulphides, probably less than 0.5%. (Assay for Au)

Sample 20 Mafic Volcanic: This sample appears to be a mafic volcanic as it has a grey black fresh surface that is fine to medium grained. It is unaltered and contains no significant pyrite or quartz. The surface weathering of this sample is somewhat unusual as it weathers similar to the felsic samples seen from this property.

Sample 21 Felsic Volcanic: Bleached white surface. Very fine grained light grey fresh surface, no significant alteration or mineralization. Some minor quartz stringers noted. (Assay for Au)

Sample 22 Diorite Intrusive: Medium to coarse grained intrusive with quartz feldspar and some ferro-magnesium minerals, brown weathered surface. (Assay for Au)

Sample 23 Quartz Vein: Mainly quartz vein with brown iron carbonate, some sheared mafic wall rock associated with veining, wall rock minor portion of sample. (Assay for Au)

Sample 24 Mafic Volcanic: Brown weathered surface. Grey black fine grained fresh surface, massive appearance, no significant sulphide or veining.

Sample 25 Mafic Volcanic: Brown weathered surface. Very fine grained black fresh surface, occasional rare speck of pyrite noted.

Sample 26 Mafic Volcanic: Very heavily oxidized weathered surface of this sample (gossan zone). Fresh surface and exhibits a schistosity, lots of fine sulphide in sample mainly pyrite and rare chalcopyrite. (Assay for Au, Cu, Ag, Zn, Pb)

Sample 27 Felsic Volcanic?: Similar to sample below (Sample 28) but fine grained and not as altered. Some brown carbonate noted and has a bleached white surface, a few specks of pyrite noted along a quartz vein, less than 0.5% pyrite (Assay for Au, Cu, Zn)

Sample 28 Felsic Intrusive: Fine to medium grained unit, pervasive moderate to weak sericite alteration, minor quartz stringer with associated brown carbonate. Also, some brown carbonate stringers within sample. Bleached white weathered surface. No significant sulphides noted. (Assay for Au)

Sample 29 Mafic Volcanic: Brown weathered surface. Grey black fresh surface that is fine grained. A few minor quartz stringers and occasional speck of pyrite. (Assay for Au)

Sample 30 Mafic Volcanic: Sample is wedge shaped from a set of fracture planes, it distinctly resembles sample 33 otherwise; see sample 33 for description.

Sample 31 Felsic Volcanic: Bleached white weathered surface. Very light grey colored extremely fine grained fresh surface. No significant sulphides or veining noted.

Sample 32 Granite: Mainly pink in color, contain potassium feldspar, plagioclase feldspar, quartz and some black ferro magnesium minerals. Minor pyrite noted, mainly cubic form or finely disseminated; sulphide less than 0.5% of rock. (Assay for Au)

Sample 33 Mafic Volcanic: Brown weathered surface and fine grained grey black fresh surface. Some very minor gossan associated with a fracture plane in sample. No significant veining or sulphides.

Sample 34 Mafic Volcanic: Exactly as per description in sample 33, a fracture plane or two with gossan as well. (Assay for Au)

Sample 35 Mafic Volcanic: Brown gossan on weathered surface. Grey fine grained weathered surface. Chalcopyrite noted in a quartz veinlet and wall rock, clots and disseminated pyrite. 1% chalcopyrite and 1% pyrite. Some malachite staining noted as well on fresh surface. (Assay for Cu, Au, Ag)

Sample 36 Mafic Volcanic: Brown weathered surface and fine grained grey black fresh surface, occasional speck of pyrite noted and one quartz veinlet. (Assay for Au)

Sample 37 Mafic Volcanic: Fine grained black mafic volcanic on the fresh surface associated with a slip plane and minor quartz veinlet, some brown carb associated with veinlet. No significant sulphides noted. (Assay for Au)

Sample 38 Mafic Volcanic: Very fine grained black fresh surface, appears silicified to some extent, no significant sulphides or veining noted. Brownish weathered surface. (Assay for Au)

Sample 39 Mafic Volcanic: As per sample description below for sample 44.

Sample 40 Mafic Volcanic: Brownish colored weathered surface, somewhat pseudo brecciated appearance with brown carbonate interstitial to fragments. Some slip planes noted in sample with quartz clots on the slip planes and minor chloritic alteration. Fresh surface of sample is fine grained and grey black in color. No significant sulphide noted. (Assay for Au)

Sample 42 Mafic Volcanic: As per sample 44 below.

Sample 43 Mafic Volcanic: As per sample 44 below.

Sample 44 Mafic Volcanic: Brown weathered surface. Fine grained grey black on fresh surface. No significant veining or sulphide noted.

Sample 45 Felsic Volcanic: This sample is a piece of drill core (unsplit) from a pile of core on the subject property. The core is weathered on the surface from exposure to the elements. It has minor gossan on the weathered surface and is bleached white to some extent. The fresh surface is light grey in color and fine grained, somewhat silicious in appearance. This sample contains 5-7% disseminated pyrite. (Assay for Au, Cu, Zn)

Sample 46 Mafic Intrusive: This sample is a piece of drill core (not split) found on the property. It is black and fine to medium grained. It is likely a gabbro. It contains stringers of pyrite and the sample is not magnetic. The sample also contains some disseminated pyrite. Total sulphide content estimated to be 4%. (Assay for Pd, Pt, Au, Cu, Ni)

Sample 47 Felsic Volcanic: This sample has a bleached white weathered surface and a fine to medium grained fresh surface that is light grey in color. The sample exhibits a fabric. No significant sulphide is present except for the occasional fleck of pyrite. (Assay for Au)

Sample 48 Mafic Volcanic: Brown weathered surface. Fine grained black fresh surface with no significant sulphide or veins.

Sample 49 Mafic to Intermediate Volcanic: As per description for sample 50.

Sample 50 Mafic to Intermediate Volcanic: Light brown weathered surface and a fine grained grey black fresh surface. A few minor specks of pyrite noted.

Sample 51 Mafic Volcanic: This sample is a fine grained grey black unit. No significant sulphides are noted but there is a large white quartz vein associated with this unit that is vuggy and white in color.

Sample 52: Mafic Volcanic: As per sample 53, no veining or sulphides.

Sample 53 Mafic Volcanic: This sample has a light brown weathered surface. It is a medium grey color on the fresh surface and fine grained. There are no significant sulphides present. The sample contains a small quartz veinlet.

Sample 54 Mafic Volcanic: As per sample 53.

Sample 55 Mafic Intrusive: Brown weathered surface and medium to fine grained, grey black fresh surface. Locally weakly magnetic. Possibly a diabase dyke.

Sample 56 Mafic Volcanic: Light brown weathered surface, medium to fine grained grey mafic volcanic. No significant sulphides or veining noted.

Sample 57 Mafic Volcanic: This sample is fine grained grey black on the fresh surface and has a brown weathered surface. No significant sulphides were noted. A small slip plane is present in the sample.

Sample 58 Mafic Volcanic: Brownish weathered surface, fine grained grey colored fresh surface. Some fine disseminated pyrite, approximately 1% on the fresh surface. Also some brown carbonate noted on the weathered rind of sample. (Assay for Au)

Sample 59 Quartz Vein: Mainly quartz vein material with some minor chloritic mafic wall rock. (Assay for Au)

Sample 60 Mafic Volcanic: This sample is black in color on the fresh surface and weathered surface. This sample is part of a fault zone, it contains actual fault gouge on a fault plane with slickensides. Fragments of intermediate to felsic rock are present within the sample. (Assay for Au)

Sample 61 Felsic Volcanic: Bleached white weathered surface. Sample is a very light grey color on fresh surface and fine grained; it exhibits some fabric. There are no significant sulphides present.

Sample 62 Chert: Sample is greyish on weathered surface. On fresh surface typical cherty appearance and a very light grey color. A number of fractures in sample with gossan. Also, sample has some fine pyrite in it outside of fractures. (Assay for Au, Cu, Zn)

Sample 63 Intermediate to Felsic Volcanic: This sample has a greyish weathered surface. It has fractures associated with it that are covered with a brown gossan. The fresh surface is light grey and fine grained. No real significant sulphides were noted.

Sample 64 Felsic Volcanic: This sample has a brown weathered gossanous surface. The sample has a very light grey fine grained fresh surface. There are a number of fracture

planes on the sample with gossan and fine pyrite. Fine pyrite is also found in the fresh wall rock adjacent the fractures. Estimated pyrite content 5%. (Assay for Au, Cu, Zn)

Sample 65 Felsic Volcanic: Weathered surface of sample brown to tan colored. This sample is a fine grained light grey on the fresh surface, a round circular clot of chlorite was noted in sample. A small quartz stringer was also noted in sample. No significant sulphides noted.

Sample 66 Felsic Intrusive?: This sample is a pinkish brown color on weathered surface and a pink/orange color on fresh surface. It is very fine grained, it is possibly the edge of a felsic intrusive. A small quartz veinlet was noted in the sample and no sulphides. (Assay for Au)

Sample 67 Chert: White slightly banded chert, very silicious. A number of fractures give the sample a blocky appearance, some gossan on the fracture plane. No sulphides noted. (Assay for Au)

Sample 68 Felsic Volcanic: Brown weathered surface. Very light grey fine grained fresh surface. Some fractures associated with sample that have a brown gossan on them. Also a minor quartz vein associated with sample, and no significant sulphide noted.

Sample 69 Quartz Vein: Sample is mainly quartz vein. The wall rock along quartz vein or vein salvage is thought to be a felsic, this felsic is a minor part of the sample but it contains a lot of iron carbonate and exhibits a fabric (shear). (Assay for Au)

Sample 70 Mafic Volcanic: Brown weathered surface. Grey black fine grained sample on fresh surface. No significant mineralization or veins.

Sample 71 Mafic Intrusive: This sample has a brown weathered surface. It is black and medium grained on the fresh surface. This sample is a diabase dyke.

Sample 72 Quartz Vein: Mainly white quartz with minor intermediate volcanic wall rock, no significant sulphide.

Sample 73 Mafic Volcanic: Brownish grey weathered surface. Fine grained grey fresh surface, no significant sulphide, some very minor quartz carbonate stringers.

Sample 74 Mafic Volcanic: This sample has a greenish colored weathered surface and there are a number small pits in the surface of sample from gas bubbles when this rock was cooling. The rock is very fine grained and grey black on the fresh surface. A fracture plane on the surface of this rock has some quartz on it and some minor sulphide.

Sample 75 Mafic Intrusive: As per description for sample 79.

Sample 76 Felsic Volcanic: Tan to bleached weathered surface. Very fine grained dark grey silicious looking fresh surface with phenocrysts of feldspar?. No significant sulphides noted. Gossan noted along fracture plane in sample. (Assay for Au, Cu, Zn)

Sample 77 Mafic Intrusive: Diabase dyke as per sample 89.

Sample 78 Felsic Volcanic: Tan bleached white weathered surface. Light grey color on fresh surface. Sample taken from the edge of a small fault plane. Slickensides evident in sample. Minor quartz veinlet noted in sample. No significant sulphides. (Assay for Au)

Sample 79 Mafic Intrusive: Light brown to tan weathered surface. Black medium grained fresh surface. Sample is non magnetic and contains no significant sulphides. Compositionally this unit is likely a gabbro.

Sample 80 Mafic Volcanic: Brown weathered surface. Black fine grained fresh surface. Some quartz clots and rare sulphide. (Assay for Au)

Sample 81 Felsic Volcanic: Bleached white weathered surface. Fine grained light grey fresh surface. No significant sulphide noted.

Sample 82: Felsic Volcanic: As per sample 81.

Sample 83 Felsic Volcanic: As per sample 84 except no significant sulphide.

Sample 84 Felsic Volcanic: Bleached white weathered surface. Very fine grained, light grey almost chert like appearance in this sample. Some very minor fine grained disseminated pyrite note locally. (Assay for Au, Cu, Zn)

Sample 85 Felsic Volcanic: Bleached white weathered surface. Sample contains a fracture plane with some brown weathering. Fresh surface is very fine grained and very light grey in color, chert like appearance. No significant sulphide noted.

Sample 86 Felsic Volcanic: Bleached white weathered surface. Some quartz veining noted in sample (rare veinlet). Fresh surface is a very light grey color and sample is fine grained, almost a sugary texture. Occasional specks of pyrite noted. Pyrite less than 0.5%. (Assay for Au, Cu, Zn)

Sample 87 Felsic Volcanic: White weathered surface and light grey fine grained fresh surface, somewhat of a sugary texture. Very minor pyrite noted in sample. (Assay Au)

Sample 88 Felsic Volcanic: Gossan found on weathered surface. Sample contains some pyrrhotite blebs and some minor fine disseminated sulphide as well, 1% sulphide in total. The sample is fine grained to very fine grained in color. Sections of the sample are cherty. This sample would likely be classified as a cherty rhyolite. (Assay Au,Cu,Zn)

Sample 88A Felsic Volcanic: As per sample 88 except no sulphide noted in this sample. This sample has some fabric within in it.

Sample 89 Mafic Intrusive: This is a medium grained mafic intrusive. It has a brown weathered surface and it is magnetic locally. This sample is thought to be part of a diabase dyke.

Sample 90 Mafic Volcanic: This sample has minor gossan on weathered surface and along a few fracture planes. The fresh surface is very fine grained and black in color. Some very minor pyrite is present. This sample would likely be classified as a basalt in the field. (Assay Au)

Sample 91 Mafic Volcanic: This sample is basically the same as sample 90, except it has a little bit more sulphide perhaps 1%, roughly 50:50 pyrite and pyrrhotite. (Assay Au, Cu, Zn)

Sample 92 Felsic Volcanic: Brown weathered surface on this sample. Some brown carbonate present on both weathered and fresh surface. Very fine grained light greyish white chert like appearance on fresh surface. This sample might be considered to be a chert rhyolite. Rare speck of pyrite noted. (Assay for Au)

Sample 93 Felsic Volcanic: Weathered surface is tan in color. Fresh surface is a light grey color and fine grained. The sample might be considered a cherty rhyolite. Some minor quartz veinlets are noted. Also some very minor local sulphides (pyrite) is present along a fracture plane, less than 0.5% pyrite. (Assay Au, Cu, Zn)

Sample 94 Felsic Volcanic: This unit contains to fracture planes with gossan on them. The fresh surface of the sample is very fine grained and light grey in color. There is some brown carbonate in the sample and a rare speck or two of pyrite. (Assay for Au)

Sample 95 Mafic Volcanic: This sample is a fine grained choritized mafic volcanic with quartz veinlets in it giving it "marble like appearance". Substantial brown carbonate is found on the weathered surface and the fresh surface. Quartz content in this sample is about 5%, and about 0.5% pyrite is present. (Assay for Au)

Sample 96 Mafic Volcanic: This sample is a black fine grained mafic volcanic. The weathered surface is brown. Some fine pyrite noted in the sample, approximately 1% disseminated sulphides. (Assay for Au)

Sample 97 Felsic Volcanic: White to light colored weathered surface. Very light grey very fine grained fresh surface. A small quartz vein cuts the sample and there is some brown iron carbonate associated with the vein. No significant sulphides noted. (Assay for Au)

Sample 98 Felsic Volcanic: White bleached weathered surface. Very light grey fine grained sample on the fresh surface with some cherty sections within the sample. Quartz eyes noted in sample. Some minor pyrite in sample. (Assay for Au)

Sample 99 Mafic Volcanic: Sheared mafic volcanic with brown weathered surface. Sample has substantial oxidation, where fresh surface is visible it is greyish in colored. There is about 10% pyrite disseminated throughout the sample.(Assay for Au)

Sample 100 Felsic Volcanic: Bleached white weathered surface. Very light grey fine grained fresh surface, cherty appearance. Approximately 2-3% fine pyrite in sample, some fractures in sample are brown with gossan and locally contain slightly more pyrite, perhaps 4-5%. (Assay for Au)

Sample 101 Felsic Volcanic: As per sample 98 but no quartz eyes and no significant sulphide.

Sample 102 Intermediate Volcanic: Sample has a light green to light brown colored weathered surface. Numerous vesicles note and cubic pyrite noted in sample 1-2%. Also lots of small blebs of brown iron carbonate are present on fresh surface. The color of the fresh surface is dark grey to almost black and the unit is fine grained. (Assay Au)

Sample 103 Mafic Intrusive: Sample has a brown weathered surface. The fresh surface is medium grained and black in color. This sample contains no significant sulphide and is not magnetic.

Sample 104 Felsic Volcanic: Tan colored sample on weathered surface. Fine grained light tan color on fresh surface and a few minor pyrite cubes noted.

Sample 105 Felsic Volcanic: This sample has a bleached white weathered surface and the fresh surface appears very fine grained, it looks very similar to a black chert. No significant sulphides noted.

Sample 106 Felsic Volcanic: Bleached white weathered surface, and light grey fine grained fresh surface, some brown carbonate noted, no significant sulphides. Some fracture planes in sample with brown gossan.

Sample 107 Felsic Volcanic: Weathered surface is tan to bleached white. Fresh surface is dark grey and very fine grained. No significant sulphide or veining noted. Some gossan noted along a fracture plane in sample.

Sample 108 Felsic to Intermediate Volcanic: As per sample 109.

Sample 109 Felsic to Intermediate Volcanic: Grey weathered surface. Light grey to black fresh surface, some ferro-magnesium minerals note in darker portions of this fine grained unit. For the most part sample is light grey in color on fresh surface and has some brown

carbonate typical of other felsic samples from this property. A few specks of pyrite noted. (Assay for Au)

Sample 110 Mafic Volcanic: This sample has a brown weathered surface and a fresh fine grained black surface. It has substantial fine pyrite and subhedral pyrite crystals making up about 5% of the sample. (Assay for Au)

Sample 111 Felsic to Intermediate Volcanic: This sample is as per description for sample 109. (Assay for Au)

Sample 112 Felsic Volcanic: White weathered surface. Light grey fine grained fresh surface, some gossan on fracture planes, no significant sulphide noted.

Sample 113 Felsic Volcanic: This sample has a bleached tan colored weathered surface. The fresh surface is light grey colored and fine grained with a sugary texture and some blebs of brown carbonate. No significant quartz veining or sulphides. Sample contains what appears to be part of a fault plane.

Sample 114 Mafic Volcanic: Fine grained black mafic volcanic with quartz clots on fresh surface. Also, stingers and cubes of pyrite making up 4-5% of sample. Possibly some silicification noted on fresh surface of sample. Brown weathered surface. (Assay for Au)

Sample 115 Felsic Volcanic: Dirty white colored weathered surface. Very light grey fine grained fresh surface, occasional quartz eye noted in sample. Occasional speck of pyrite and very minor brown carbonate noted.

Sample 116 Felsic Volcanic: Bleached white weathered surface, cherty light grey fine grained fresh surface. No sulphide noted, rare minor quartz carbonate stringer noted occasionally.

Sample 117 Felsic Volcanic: This sample is thought to be a felsic volcanic, but it is heavily oxidized and mainly brown in color. (Assay for Au, Cu, Zn, Ag)

Sample 118 Mafic/Ultramafic? Volcanic: Brown weathered surface. Black fresh surface, gritty appearance, massive unit. Some very fine pyrite noted in sample, less than 0.5% in a disseminated form. (Assay for Au, Cu, Ni, Pt, Pd)

Sample 119 Felsic Volcanic: Light greyish weathered surface. Siliceous grey fine grained occasionally somewhat cherty fresh surface. Noted clot of sulphide with pyrite and minor chalcopyrite. (Assay for Au, Cu, Zn, Ag)

Sample 120 Quartz Vein: White quartz vein material with some felsic wall rock

Sample 121 Felsic Volcanic: Weathered surface a dirty white color. Fresh surface fine grained and very light grey color. Some minor pyrite and some small clots and veinlets of iron carbonate. (Assay for Au, Cu, Zn)

Sample 122 Intermediate to Felsic Volcanic: Light grey to dirty white weathered surface. Very fine grained light grey colored unit. One minor speck of pyrite noted.

Sample 123 Intermediate to Felsic Volcanic: Brown gossanous weathered surface. Black fine grained, siliceous almost approaching cherty in some instances. Sample has a blocky appearance from fracture planes associated with sample. (Assay for Au)

Sample 124 Felsic Volcanic: As per sample 125.

Sample 125 Felsic Volcanic: Tan to dirty white fresh surface. Light grey fresh surface that is fine grained. A number of fractures in sample that are have a brown iron stain on them.

Sample 126 Intermediate to Felsic Volcanic: Brown gossanous weathered surface. Grey siliceous fine grained fresh surface. (Assay for Au)

Sample 127 Felsic Volcanic and Quartz Veins: This sample is typical of the felsic volcanics described, light grey fresh surface and fine grained. However, this sample has a bit of quartz stockwork associated with it. Some brown gossan on fracture planes. (Assay for Au)

Sample 128 Mafic Volcanic: Brown /grey weathered surface. Dark grey fine grained fresh surface with not significant sulphide or veining. Some iron staining of fracture planes. Also sample exhibits some fabric.

Sample 129 Felsic Volcanic: This sample has a bleached white fresh surface. Some angular felsic fragments are noted in this sample (fragmental). Fresh surface is light grey and fine grained. Some minor brown gossan and quartz are present along fracture planes in this sample. No significant sulphides are present. (Assay for Au)

Sample 130 Felsic Volcanic: Bleached white weathered surface. Fine grained light grey fresh surface. Some chert in this sample. Some iron staining noted on fracture planes in sample.

Sample 131 Felsic Volcanic: As per sample 130 except no chert in this sample.

Sample 132 Intermediate to Felsic Volcanic: Sample has a dirty white weathered surface. It has a light grey fresh surface and is fine grained, the occasional cube of pyrite was noted.

Sample 133 Felsic Volcanic: Tan to white fresh surface. Light grey to black cherty fresh surface. Some quartz veining along a fracture plane, rare speck of pyrite noted.

Sample 134 Mafic Volcanic/Ultramafic Volcanic?: Brown weathered surface, some gossan making up weathered surface. Fresh surface is black and medium grained, sample

contains some pyrite clots and stringers and a few quartz stringers. (Assay for Au, Cu, Ni, Pt, Pd)

Sample 135 Mafic Volcanic/Ultramafic Volcanic?: As per sample 134 except little or no mineralization and a small quartz vein along a fracture.

Sample 136 Intermediate to Mafic Volcanic: Light brown weathered surface. Dark greyish colored fresh surface that is fine grained and gritty in appearance. No significant sulphide and one minor quartz vein.

Sample 137 Quartz: Barren white quartz with minor volcanic wall rock. No sulphide noted.

Sample 138 Mafic Volcanic: Brown weathered surface. Grey black fine grained unit with some fine disseminated pyrite, approximately 1% maximum. (Assay for Au)

Sample 139 Mafic Volcanic: Brown weathered surface. Fine grained grey black fresh surface, no significant sulphide or veining.

Sample 140 Intermediate to Felsic Volcanic: Light brown weathered surface. Fine grained light grey fresh surface, occasional quartz eye and rare minor pyrite. (Assay for Au)

Sample 141 Mafic Volcanic: Brown weathered surface, and fine grained grey black fresh surface. No significant sulphide, some minor quartz veining.

Sample 142 Granodiorite Intrusive: Sample contains quartz, K-feldspar, some plagioclase and ferro-magnesium minerals, no significant sulphides noted.

Sample 143 Intermediate Intrusive: Brown weathered surface, medium grained unit that is grey black in color and contains some quartz. No sulphide.

Sample 144 Mafic Volcanic: As per sample 148.

Sample 145 Mafic Volcanic: As per sample 148.

Sample 146 Mafic Volcanic: As per sample 148.

Sample 147 Mafic Volcanic: As per sample 148, except this sample may have up to 1% pyrite disseminated within it. (Assay for Au)

Sample 148 Mafic Volcanic: Brown weathered surface. Grey black fine grained fresh surface, with some very minor pyrite.

Sample 149 Felsic Volcanic: Bleached white fresh surface. Light grey fine grained siliceous fresh surface, no sulphide, rare quartz veinlet.

Sample 150 Quartz Vein: White quartz vein and some minor mafic wall rock.

Sample 151 Chert: Brown weathered surface, light grey chert, some minor malachite stain noted along a fracture, tiny rare sulphide noted. (Assay for Au, Cu, Zn, Ag)

Sample 152 Mafic Volcanic: Brown weathered surface. Dark grey to black fine grained to medium grained fresh surface, 1-2% fine pyrite. (Assay for Au)

Sample 153 Mafic Volcanic: Brown weathered surface. Dark grey fine grained fresh surface, massive unit. Some very minor cubic pyrite noted.

Sample 154 Felsic Volcanic: Brown gossan on weathered surface. Numerous angular felsic fragments in sample, some fragments cherty. Also a very light grey fine grained matrix material. Approximately 7-10% disseminated pyrite in sample. (Assay for Au, Cu, Zn, Ag)

Sample 155 Mafic Volcanic: Brown weathered surface. Fine grained black fresh surface. Few minor specks of pyrite

Sample 156 Felsic Volcanic: As per sample 159 except this sample has few quartz veinlets.

Sample 157 Mafic Volcanic: As per sample 155 except not sulphide.

Sample 158 Mafic Volcanic: Brown weathered surface. Fine grained black fresh surface. A few minor quartz stringers. (Assay for Au)

Sample 159 Felsic Volcanic: White bleached weathered surface. Fine grained light grey siliceous fresh surface, no significant veining or sulphides noted.

Sample 160 Felsic Volcanic: Weathered surface is a dirty white to bleached white color. The fresh is very light grey and fine grained. No significant sulphide or veining noted.

Sample 161 Mafic / Ultramafic? Volcanic: Brown weathered surface. Black fine grained fresh surface, some evidence of fabric note, some chloritic alteration but no significant sulphides noted.

Sample 162 Felsic Volcanic: As per sample 168.

Sample 163 Felsic Volcanic: As per sample 168.

Sample 164 Quartz Vein: Barren white quartz vein.

Sample 165 Quartz Vein: Barren white quartz vein. (Assay for Au)

Sample 166 Felsic Volcanic: As described previously in sample 159; one minor quartz veinlet noted in this sample.

Sample 167 Intermediate Volcanic: Greyish brown weathered surface, grey colored fine grained fresh surface with a little bit of fine pyrite. (Assay for Au)

Sample 168 Felsic Volcanic: Bleached white weathered surface. Very light grey fine grained fresh surface, occasionally cherty, no significant mineralization and/or veining noted.

Sample 169 Felsic Volcanic: As per sample 168 except this sample has some very minor pyrite. (Assay for Au)

APPENDIX 2
SAMPLES LOCATIONS

Ontario Prospector's Assistance Program**Samples' Locations**

OPAP file number OP98-333
 Reipient Peter Bilenki
 Helper Karen Beith

NOTE: All sample locations have the sample number marked on flagging tied to adjacent trees or shrubbery and on flagging tied to a rock and placed onto the spot of origin.

SAMPLES # LOCATIONS

1	L5N/352mE	oc	
2	L5N/500mE	oc	on Twp line
3	9m northeast of L5N/388mE	oc	
4	1.5m south of BL/ 085N	oc	
5	5m south of L1N/115mE	oc	on Twp line
6	85m north of L2N/210mE	oc	on Twp line
7	53m north of L2N/210mE	oc	on Twp line
8	5m southeast of L2N/186mE	oc	
9	13m @ 130 degrees from L3N/035mW	oc	
10	16m @ 318 degrees from L3N/285mE	oc	
11	5m north of # 10	oc	
12	5m south of L3N/258mE	oc	
13, 14, 15	L3N/229mE	oc	within a foot of each other
16	L4N/368mE	oc	
17	8m south of L4N/231mE	oc	
18	L4N/350mW	oc	
19	on south boundary 32m west of linepost 400mW of #2/1218739 oc		
20	L3N/275mW	oc	
21	L5N/085mW	may or may not be	oc
22	L6N/030mW	oc	
23	6m south of L6N/050mW	oc	
24	27 paces @ 017 degrees from L6N/254mW	oc	
25	L7N/454mW	oc	

26 29m @ 320 degrees from L7N/500mW oc

27 86m @ 320 degrees from L7N/500mW oc

28 3.5m north of # 27 oc

29 L7N/459mW oc

30 25m northeast of # 31 oc

31 25m @ 130 degrees from L7N/150mW oc

32 L8N/196mE at creek by trail to core pile may or may not be oc

33 58m north of L9N/825mE oc on Twp line

34 from wall of pit which is 5m south of L10N/925mE oc on Twp line
pit is 6m x 3m x 2m deep in oc

35 pit debris 5m south of L10N/925mE

36 L9N/800mE oc

37 L9N/779mE oc

38 7m @ 310 degrees from L9N/750mE oc

39 25m @ 310 degrees from L9N/750mE oc

40 37m @ 310 degrees from L9N/750mE oc

41 62m @ 310 degrees from L9N/750mE oc

42 8m @ 310 degrees from L9N/700mE oc

43 4 vertical meters below L9N/700mE oc

44 L9N/483mE may or may not be oc was lodged beside larger rock within
area of fallen tree's root

45, 46 from core pile lying between 19.6m and 27.9m @ 300 degrees from L8N/175mE
(by creek)

47 L8N/427mE oc

48 8m southeast of L8N/543mE oc

49 12m south of # 48 oc

50 20m north of L8N/575mE oc

51 15m north of L8N/575mE oc quartz stringers on oc wall

52 9m north of L8N/575mE oc

- 53 5m south of 2 mile marker post on Godfrey/Turnbull Twp line
approx 45m south of L8N/750mE oc
- 54 L6N/199mE may or may not be oc
- 55 3m southeast of L6N/443mE may or may not be oc
- 56 70m @ 266 degrees from L6N/500mE oc
- 57 8m @ 140 degrees from L7N/625m E oc
- 58 30m @ 160 degrees from L7N/600mE below upturned tree trunk on open oc top
- 59 & 60 25m @ 160 degrees from L7N/600mE small cleft with EW quartz vein and
quartz stringers oc
- 61 10m south of L11N/700mE
from 20' x 20' x 8' high protrusion of rock
may or may not be oc
- 62 L16N/411mE from weathered off piece of the oc there
- 63 L16N/420mE from weathered off piece of the oc there
- 64 15m east of L16N/450mE oc
DDH collar @ 6m south of #64 collar enters oc pointing within 10 degrees of
True E
- 65 9m south of L16N/710mE oc
- 66 25m to southeast of L16N/800mE from a NS tending peaked ridge of
moss-covered oc which is about 6' wide, 4' high and 20m to 25M long. A
second smaller parallel ridge lies about 8m to the SE of the larger one
- 67 L17N/670mE taken from a 10' x 10' x 8' high protrusion which is heavily split
by weather may or may not be bedrock
- 68 11m north of L17N/700mE from a 1/4" to 1/2" film of white quartz which is
about 1' to 2 1/2' wide by at least 10' to 12' NS The quartz may run across more
of the moss-covered, low outcrop
- 69 10m north of # 68 oc
- 70 10m north of L7N/550mE oc
- 71 10m northeast of L7N/510mE oc
- 72 12m south, southeast of L7N/400m E oc
- 73 50m southeast of L7N/300mE oc
- 74 25m south of L7N/150mE small protrusion of several inches in moose
path at east side edge of creek may or may not be oc

- 75 approx 13m north of L8N/575mW oc
- 76 approx 20m north of L9N/575mW oc
- 77 5 paces north of # 76 oc
- 78 8 paces north of L9N/575mW 1/4" to 4" veins/veinlets exposed in south edge of low oc which has an EW showing of 10' of quartz (Could have more work in this area?)
- 79 9m south of BL0/550mN oc
- 80 28m south of L11N/150mW oc
- 81 8m south of # 82
- 82 16m @ 130 degrees from L11N/250mW oc
- 83 6m west of # 84 oc
- 84 8m south of L10N/525mW oc
- 85 L10N/390E oc
- 86 3m northwest of L10N/275mE oc
- 87 37m east of BL/1100mN oc
- 88 10m east of L11N/425mE from edge of 7' high, 12' x 8' boulder or oc ?
- 88 L11N/440mE from large, loose boulder 4' x 4' x 3' high
- NOTE: field notes - inadvertently noted two # 88's
- 89 L12N/677mE from 5' x 5' patch of oc exposed by windfallen tree root
- 90 from SE end of SE-NW 6m x 2' wide x 2' deep trench @ L12N/625mE
oc wall of trench
- 91 2m from NW end of above trench taken from a 1' x 2' loose rock that had 14" of top soil on it in the trench
- 92 9 paces northwest of L12N/566mE oc
- 93 21m @ 304 degrees from L12N/550mE oc
- 94 10m south of L12N/325mE oc
- 95 10m southwest of # 94 oc
- 96 41m @ 275 degrees from L13N/300mE from oc exposed by upturned tree root
- 97 70m @ 110 degrees from L11N/400mE from oc exposed by unturned tree root, on immediate N side of old walkable road that crosses L11N @ 425mE, old claim post at sample location

- 98 32m @ 130 degrees from L11N/450mE oc
- 99 5m northwest of L11N/475mE loose on surface beside oc no other similar rock in immediate area may or may not be oc
- 100 60m east of # 101 from a 10' x 8', split by weather, protrusion which may or may not be oc there are numerous moss-covered boulders in immediate area ranging in size from 1' x 1' to 3' x 4'
- 101 36m southeast of L12N/430mE from 10' x 10' x 5' high protrusion which may or may not be oc
- 102 43m south of #101 from little boulder in upturned tree root may or may not be oc
- 103 1m west of # 102 oc
- 104 8m west of # 102 oc
- 105 9m north of L13N/125mE oc
- 106 13m @ 275 degrees from L13N/300mE oc
- 107 19m @ 275 degrees from L13N/300mE oc
- 108 52m @ 275 degrees from L13N/300mE oc
- 109 15m @ 023 degrees from marker flag oc marker flag is on open oc 76m @ 275 degrees from L13N/300mE
- 110 about 18m @ 050 degrees from marker flag oc
- 111 2m south of marker flag from weathered-off slab of oc surface
- 112 30m north of L11N/800mE oc
- 113 8m north of L11N/800mE in 25m NS x 1' deep x 2' wide old trench oc
- 114 3m north of L11N/800mE from loose 1' x 2 1/2' boulder in old trench
- 115 14 paces @ 020 degrees from L13N/550mE from 4' x 5' protrusion exposed by overturned tree which may or may not be oc
- 116 10 paces north of L13N/200mE from 15' x 8' x 4 1/2' high protrusion which may or may not be oc
- 117 8m north of BL/L14N oc
- 118 5m east of L14N/175mE oc
- 119 L14N/195mE oc
- 120 14m north of L15N/563mE oc
- 121 L17N/875mE oc

- 122 4m southeast of L18N/750mE oc
- 123 approx 190m north of post # 2/1218740 on claim line oc
- 124 from west edge of west patch of oc which is about 40m west of # 123
- 125 approx 11m west of claim line at the south end of the oc which is about 125m north of post # 2/1218740
- 126 on claim line at south edge of oc which is about 125m north of post #2/740
- 127 6m southeast of # 123 on claim line on open oc (about 185m north of #2/740)
- 128 25m southeast of L18N/558mW 558W is on claim line oc
- 129 33m southeast of L18N/558mW from weathered-off piece of oc surface
- 130 10m @ 288 degrees from L13N/700mW oc
- 131 25m @ 288 degrees from L13N/700mW oc
- 132 10m north of # 131 from a 2' x 2' boulder on top of the oc that looks like the oc, but may or may not be from the oc
- 133 12m north of # 131 oc
- 134 50m @ 350 degrees from L13N/700mW oc from a 1' EW "vein" that is 2" to 3" wide
- 135 wall rock to # 134 oc
- 136 9m south of # 135 oc
- 137 5m north of L13N/675mW oc
- 138 2m north of L15N/775mW from under 10" of soil from a loose rock (loosened by tree root?) may or may not be oc
- 139 5m south of # 138 oc
- 140 33m south of L15N/775mW oc
- 141 36m south of L15N/775mW oc
- 142 about 12m @ 120 degrees from L15N/775mW oc
- 143 about 12m @ 130 degrees from L15N/750mW oc
- 144 38m southeast of # 141 oc
- 145 about 90m southeast of L15N/775mW (20 m NW of L14N/775mW) oc
- 146 20m northwest of L16N/250mW oc

147 30m northwest of L16N/250mWoc
148 2m south of # 147 oc
149 20m @ 332 degrees from L16N/250mW oc
150 12m west of L17N/100mW oc
151 approx 25m northwest of L17N/100mW from weathered piece of loose on oc
152 25m @ 296 degrees from L15N/100mW oc
153 approx 13m northwest of # 152 oc
154 L14N/125mW from weathered piece of loose on oc
155 10m @ 114 degrees from L14N/100mW oc
156 approx 30m @ 338 degrees from L14N/100mW oc
157 14m @ 287 degrees from # 156 oc
158 35m to 40m northwest of L15N/250mW oc
159 18m east of L15N/225mW oc
160 20m @ 315 degrees from L14N/300mW oc
161 20m @ 199 degrees from L14N/425mW oc
162 16m @ 144 degrees from L14N/325mW oc
163 20m to 25m @ 150 degrees from L14N/300mW oc
164 L14N/300mW vein of quartz in a piece of loose on mossy oc surface
165 L13N/325mW oc
166 25m south of # 163 oc
167 25m @ 215 degrees from L13N/275 mW oc
168 25 southeast of L12N/250mW oc
169 between 25m and 30m @ 305 degrees from L11N/125mW oc

**APPENDIX 3
ASSAY SHEETS**



Intertek Testing Services
Chimitec Bondar Clegg

Certificat D'Analyse
Assay Lab Report

CLIENT: PETER BELINKI PROJECT: OPAP 98
 REPORT: T98-57665.0 (COMPLETE) DATE RECEIVED: 06-NOV-98 DATE PRINTED: 14-DEC-98 PAGE 1 DE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	CU PPM	Zn PPM	Ag PPM
7		<5			
8		<5	17	151	
9		<5			
12		<5			
14		<5			
16		<5	9	152	
17		15	38	54	
18		<5			
47		<5			
59		<5			
60		<5			
76		<5	2	75	
78		<5			
80		<5			
84		<5	<1	23	
86		<5	6	9	
87		<5			
88		<5	28	136	
90		<5			
91		<5	48	160	
92		<5			
93		<5	8	17	
94		<5			
95		<5			
96		<5			
97		<5			
98		<5			
99		14			
100		<5			
102		<5			
109		<5			
110		<5			
111		<5			
114		<5			

N/A to OPAP 98 (PB)



Intertek Testing Services
Chimitec
Bondar Clegg

Certificat D'Analyse
Assay Lab Report

CLIENT: PETER BELINKI

PROJECT: OPAP 98

REPORT: T98-57707.0 (COMPLETE)

DATE RECEIVED: 30-NOV-98

DATE PRINTED: 10-DEC-98

PAGE 1 DE 1

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Au PPB	Pt PPB	Pd PPB	Cu PPM	CuOL PCT	Pb PPM	Zn PPM	Ag PPM	Ni PPM
19		8									
21		<5									
22		<5									
23		<5									
26		9				61		7	255	0.3	
27		5				13			78		
28		<5									
29		16									
32		361									
34		<5									
35		150				>20000	2.1			7.7	
36		11									
37		<5									
38		<5									
40		<5									
58		<5									
62		<5				8			7		
64		<5				68			31		
66		<5									
67		<5									
69		<5									
117		<5				3			38	<0.1	
118			1	<5	<1	64					32
119		9				1294			94	1.2	
121		<5				9			26		
123		<5									
126		<5									
127		<5									
129		<5									
134			1	<5	<1	3					<2
138		<5									
140		<5									
147		<5									
151		38				626			27	0.2	
152		<5									
154		<5				37			73	<0.1	
158		<5									
165		<5									
167		<5									
169		<5									

**APPENDIX 4
DAILY ACTIVITIES LOG
SEPTEMBER 4 - NOVEMBER 13, 1998**

Ontario Prospector's Assistance Program**Daily Activities Log Sept 4-Nov 13/98**

Registration number OP 98-333
Receipient Peter Bilenki Prospector's lic: K22227
Helper Karen Beith M25825

Sept 4 PB, KB made first canoe trip (45 min each way) to job site; located # 1 post of claim
Day 1 1218739; prospected along claim boudary from # 1 post to creek; located core pile; did not locate south boundary.

Sept 5 PB, KB found south boundary (it crosses creek with approx 100m of open grass area) by
Day 2 walking Turnbull/Godfrey Twp line north from 1 mile marker post on creek to # 2 post; prospected west from # 2 to creek; **used # 2 - 1218739 as BL00**; compassed, hand-chained and flagged BL to BL/500mW; hip-chained, flagged and prospected L5N from BL to 500E;

NOTE: baseline and traverses set at 045 degrees, i.e. grid proceeds NW from BL00 with traverses marked L1N, L2N, L3N, etc. and stations on the traverses are marked as i.e. L1N/025E, L1N/050E, etc. and L1N/025W, L1N/050W, etc.

samples #'s 1, 2, 3
500m BL hand-chained
500m traverses hip-chained

Sept 8 PB, KB hand-chained and flagged baseline from 500N to 1980N; walked snow machine
Day 3 trail approx 2 1/2 miles westward from 1980N to determine if alternate access was available - it was not; about 2/3 of BL is swamp;

1480m BL hand-chained

Sept 9 KB compassed, flagged, prospected, PB hip-chained, flagged, prospected and read VLF
Day 4 on all of L1N and L2N and on west side of L3N to the creek (50m); KB, PB prospected along Twp line from BL00 to L3N/305mE; prospected between L's 1, 2, and 3 on east side of creek;

samples #'s 4 - 9 incl
650m traverses
650m VLF, 31 stns

Sept 10 KB compassed, flagged, prospected, PB hip-chained, flagged, prospected and read VLF
Day 5 L3N from BL to 305E (Twp line), L4N from 420E (Twp line) to BL; KB, PB prospected (outcrop, stripping) between L3N & L4N on east side;

samples #'s 10 - 17 incl
725m traverses
725m VLF, 32 stns

Sept 11 KB compassed, hip-chained, flagged and prospected west side of creek L's 3N, 4N, 5N;
Day 6 KB, PB prospected between L's 3, 4, 5 on west side; prospected south boundary from L2N/200W to line tag 800mW of #2 - 1218739;
PB read VLF L3N from 075W to 275W, L4N from 350W to 050W (before rained out)

samples #'s 18 - 21 incl
915m traverses
500m VLF, 22 stns

Sept 14 KB compassed, flagged, PB hip-chained, flagged L6N from BL to 100E at creek, and BL
Day 7 to 600W at south bdry; L7N from 650W to BL/745N, and BL to 095E at creek

1495m traverses

Sept 15 PB compassed, hip-chained, flagged L21N from 040W to 290W
Day 8 KB compassed, hip-chained, flagged L20N from 015W to 370W;
PB prospected along and within N and W claim boundaries between L20N and # 4 post
- 1218739, KB prospected between L20 and L21; no samples, mostly swamp;
PB hip-chained, flagged L19N from BL0 to 086E, and BL0 to 480W;
KB hip-chained, flagged L18N from BL0 to 558W;

1729m traverses

Sept 17 KB compassed, flagged, PB hip-chained, flagged
Day 9 L17N from BL0 to 280E, and from 380E to 925E;
L18N from 800E to 480E, and from 170E to BL0;

1315m traverses

Sept 18 KB compassed, flagged, PB hip-chained, flagged L6N from 125E to 575E;
Day 10 L7N from 125E to 650E;
L8N from 750E to 225E;

1500m traverses

Sept 19 KB compassed, flagged, PB hip-chained, flagged L8N from BL0 to 200E,
L8N from BL0 to 890W
L9N from BL0 to 815W;

1905m traverses

Sept 21 KB compassed, flagged, PB hip-chained, flagged L9N from BL0 to 825E;
Day 12 L10N from 925E to BL0;
L10N from 825W to BL0;

2650m traverses

Sept 23 KB prospected, PB prospected and read VLF L6N from BL0 to 600W;
Day 13 L7N from 650W to BL/745N;
KB, PB prospected (outcrop, stripping) between L's 6N, 7N, & 8N
samples #'s 22 - 31 incl
1275m VLF, 53 stns

Sept 24 KB, PB prospected Twp line from creek to # 1 - 1218739;
Day 14 L9N from Twp line to BL;
L's 6N, 7N, & 8N from BL to west bank of creek;
samples #'s 32 - 46 incl (#45 & #46 from old core pile)

Sept 25 PB, KB prospected (outcrop, stripping) L8N from 225E to 750E;
Day 15 samples #'s 47 - 53 incl

Sept 27 PB, KB prospected (outcrop, stripping) along and between L6N from 125E to 575E;
Day 16 L7N from 125E to 650E;
L7N from 650E to 125E;
L8N from 750E to 225E;

samples #'s 54 - 60 incl, #'s 70 - 74 incl (NOTE: Inadvertently omitted numbers
61 - 69 incl - didn't realize omission until # 114 was bagged; then used 61 to 69
between 114 and 115. See day 29.)

Sept 28 KB compassed, flagged, PB hip-chained, flagged L11N from BL to 925W;
Day 17 L12N from 1050W to 050W/BL;

1925m traverses

Sept 30 KB compassed, flagged, PB hip-chained, flagged L11N from BL to 900E;
Day 18 L12N from BL to 800E;

1700m traverses

Oct 3 KB, PB prospected (outcrop, stripping) L8N from BL to 890W;
Day 19 L9N from 815W to BL;

samples #'s 75 - 79 incl

Oct 4 KB prospected, PB prospected, read VLF L11N from BL to 925W;
Day 20 L10N from 825W to BL;

samples #'s 80 - 84 incl
1775m VLF, 73 stns

Oct 5 KB compassed, flagged, PB hip-chained, flagged L13N from BL to 1025W;
Day 21 L14N from 950W to BL;

2025m traverses

Oct 6 KB compassed, flagged, PB hip-chained, flagged L16N from BL to 775W
Day 22 L15N from 850W to BL;
L17N from BL to 660W;

2285m traverses

Oct 9 PB compassed, hip-chained, flagged L16N from BL to 900E;
Day 23 KB compassed, flagged L15N from BL to 700E (PB chained back);
1625m traverses

Oct 10 KB compassed, flagged, PB hip-chained, flagged L14N from BL to 625E;
Day 24 L13N from BL to 685E;

1310m traverses

Oct 11 Day 25

Oct 13 Day 26

Oct 14 Day 27

Oct 15 Day 28 Days 25 - 28 incl, KB, PB prospected (outcrop, stripping) area from BL to north boundary of 1218739 along and between L's 10N, 11N, 12N, 13N, & 14N;

samples #'s 85 - 114 incl (Inadvertently recorded two # 88's in field notes.)

Oct 20 KB, PB prospected (outcrop, stripping) along and between L16N from BL to 900E & Day 29 L17N from 925E to BL;

samples #'s 61 - 69 incl (Had jumped from # 60 to # 70 on Day 16, i.e. excluding use of #'s 61 - 69 from notes, until omission was realized at # 114.)

Oct 22 KB, PB prospected along and between L13N from BL to 685E; Day 30 L15N from 900E to 475E;

L14N from 625E to BL0;

samples #'s 115 - 120 incl

Oct 23 KB reprospected, PB reprospected, read VLF

Day 31

L17N from BL to 280E, and from 380E to 925E;

L18N from 800E to 480E, and from 170E to BL;

samples # 121, 122

1315m VLF, 57 stns

Oct 24 KB, PB prospected along and between L18N from BL to 558W; &

Day 32

L19N from BL to 480W;

PB read VLF L18N from BL to 560W;

L19N from 480W to BL;

PB, KB prospected along NS boundary of 1218739 and 1218740 between # 1 post and # 2 post of 1218740;

samples #'s 123 - 129 incl

1040m VLF, 43 stns

Oct 25 KB prospected along and between L20N from 015W to 370W; &

Day 33

L21N from 040W to 290W;

L17N from 660W to BL;

PB prospected and read VLF

L19N from BL to 085E;

L21N from 040W to 290W;

L20N from 370W to 015W;

rained out, end VLF

PB prospected

L17N from BL to 300W

590m VLF, 31 stns

Oct 29 KB prospected along and between L12N from 050W/BL to 1050W;

Day 34

L13N from BL0 to 1025W;

L14N from 600W to 850W;

PB prospected and read VLF

L12N from 050W/BL to 1050W;

L13N from 1025W to BL;

samples #'s 130 - 137 incl

2025m VLF, 83 stns

Oct 30 KB prospected (outcrop, stripping) along and between L14N from BL to 950W;
Day 35 L15N from BL to 850W;
PB prospected and read VLF L14N from BL to 950W;
L15N from 850W to BL;

samples #'s 138 - 145 incl
1825m VLF, 75 stns

Nov 4 KB prospected along and between L16N from BL to 775W;
Day 36 L17N from BL to 660W;
PB prospected and read VLF L16N from BL to 775W;
L17N from 660W to BL;

samples #'s 146 - 151 incl
1435m VLF, 60 stns

Nov 5 KB prospected along and between L14N from BL to 275W;
Day 37 L15N from BL to 275W;
PB read VLF L6N from 125E to 575E;
L7N from 150E to 650E;
L8N from 225E to 750E;

samples #'s 152 - 159 incl
1485m VLF, 63 stns

Nov 7 PB, KB prospected (outcrop, stripping) area within 250W to 550W along and between
Day 38 L15N, L14N, L13N;

samples #'s 160 - 164 incl

Nov 10 KB, PB prospected within area between BL and 500W along and between L14N, L13N,
Day 39 L12N, L11N;
PB compassed, hip-chained, flagged, prospected L7N from 677W to 945W;
south and east sides lower claim unit;

samples #'s 165 - 169 incl
268m traverse line

Nov 12 KB reprospecting (outcrop, stripping) outcrop area within 100W and 300W along and
Day 40 between lines 10, 11, 12;

PB read VLF L16N from BL to 900E;
L15N from 700E to BL;
L14N from BL to 625E;
L13N from 675E to BL;
L8N from BL to 200W;
L7N from 100W to BL;
L6N from BL to 100W;
L5N from 025W to 425W;

3835m VLF, 153 stns

Nov 13 creek frozen (had broken night ice on three previous mornings, especially on the four
Day 41 beaver dam ponds in the first 2/3 of a mile to the job site) -- no further canoe access

**APPENDIX 5
GRID LOG**

Ontario Prospector's Assistance Program

Grid Log

Registration number OP 98-333
Receiver Peter Bilenki Prospector's lic: K22227
Helper Karen Beith M25825

Used the number **2 post of claim 1218739 as BL/00**. Established baseline (BL) and traverses at **045 degrees**. Baseline proceeds NW with stations marked at 25m intervals between 00 and 1980mN as follows: BLO/050mN...BLO/100mN...BLO/1000mN...etc. Traverses are marked as follows: BLO/L100mN, L1N/025mE, L1N/050mE, etc. and L1N/025mW, L1N/050mW, etc.

Sept 5, 1998 - PB, KB

- compassed, hand-chained, flagged BL from 00 to 500mN
- compassed, hip-chained, flagged L5N from BLO to 500mE

500m baseline hand-chained

500m traverse hip-chained

Sept 8 - PB, KB

- compassed, hand-chained, flagged BLO from L500mN to 1980mN (about 2/3 of BL is swamp)

1480m baseline hand-chained

Sept 9 - PB, KB

- compassed, hip-chained, flagged all of lines 1N and 2N, and the 50m west to the creek from BLO/300mN

690m traverse line hip-chained

Sept 10 - PB, KB

- compassed, hip-chained, flagged L3N from BL to 305mE; L4N from BL to 420mE.

725m traverse line

Sept 11 - PB, KB

- compassed, hip-chained, flagged L3N from 065mW to 275mW; L4N from 050W to 350mW;
L5N from 025mW to 430mW;

915m traverse line

Sept 14 - PB, KB

- compassed, hip-chained, flagged L6N from BL to 100mE (creek); L6N from BL to 600mW;
L7N from 650mW to BL/745mN; L7N from BL/700mN to 095E

1495m traverse line

Sept 15

- PB compassed, hip-chained, flagged L21N from 040mW to 290mW;
- KB compassed, hip-chained, flagged L20N from 015mW to 370mW;
- PB compassed, hip-chained, flagged L19N from BLO to 086mE and from BLO to 480mW
- KB compassed, hip-chained, flagged L18N from BLO to 558mW;

1729m traverse line

Sept 17 - PB, KB

- compassed, hip-chained, flagged L17N from BLO to 280mE, and from 380mE to 925mE;
L18N from 800mE to 480mE, and from 170mE to BLO;

1315m traverse line

Sept 18 - PB, KB

- compassed, hip-chained, flagged L6N from 125mE to 575mE; L7N from 125mE to 650mE;
and L8N from 750mE to 225mE;

1500m traverse line

Sept 19 - PB, KB

- compassed, hip-chained, flagged L8N from BL0 to 200mE; L9N from BL0 to 815mW;
L8N from 800mW to 890mW; L8N from 800mW to BL0;

1905m traverse line

Sept 21 - PB, KB

- compassed, hip-chained, flagged L9N from BL0 to 825mE; L10N from 925mE to BL0;
L10N from BL0 to 825mW;

2750m traverse line

Sept 28 - PB, KB

- compassed, hip-chained, flagged L11N from BL0 to 925mW; L12N from 1050mW to 050W/BL

1925m traverse line

Sept 30 - PB, KB

- compassed, hip-chained, flagged L11N from BL0 to 900mE; L12N from 800mE to BL0;

1700m traverse line

Oct 5 - PB, KB

- compassed, hip-chained, flagged L13N from BL0 to 1025mW; L14N from 950mW to BL0;

2025m traverse line

Oct 6 - PB, KB

- compassed, hip-chained, flagged, L16N from BL0 to 775mW; L15N from 775mW to 850mW;
L15N from 775mW to BL0; L17N from BL0 to 660mW;

2285m traverse line

Oct 9

- PB compassed, hip-chained, flagged L16N from BL0 to 900mE;
KB compassed, flagged L15N from BL0 to 700mE (PB chained it going back)

1625m traverse line

Oct 10 - PB, KB

- compassed, hip-chained, flagged L14N from BI to 625mE; L13N from 685mE to BL0;

1310m traverse line

Nov 10

- PB compassed, hip-chained, flagged L7N from 677mW to 945mW;

268m traverse line

1980m of baseline

24706m of traverse line

26686m of total grid

**APPENDIX 6
PROSPECTING/SAMPLING DAILY LOG**

Ontario Prospector's Assistance Program

Prospecting/sampling daily log

Registration number OP 98-333
Receiver Peter Bilenki Lic: K22227
Helper Karen Beith Lic: M25825

Sept 5 - PB, KB
- from #2 - 1218739 west to creek
- BL00 to BL500mW
- L5N from BL to 500mE
samples #s 1 - 3 incl

Sept 9 - PB, KB
- along and between L's 1,2,3, on east side of creek
- along Twp line from BL00/#2 to L3N/305mE
samples #s 4 - 9 incl

Sept 10 - PB, KB
- along and between
- L3N from BL0 to 305mE (Twp line)
- L4N from BL0 to 420mE (Twp line)
samples #s 10 - 17 incl

Sept 11 - PB, KB
- along and between
- L3N from 075mW to 275mW
- L4N from 050mW to 350mW
- L5N from 025mW to 430mW
- south boundary from L2N/200mW to line tag 800mW of #2-1218739
samples #s 18 - 21 incl

Sept 23 - PB, KB
- along and between
- L6N from BL0 to 600mW
- L7N from 650mW to BL/745mN
- L8N from 800mW to BL0
samples #s 22 - 31 incl

Sept 24 - PB, KB
- Twp line from creek to #1-1218739
- L9N/825mE (Twp line) to BL0
- L's 6N, 7N, 8N from BL0 to west bank of creek
- old core pile(s) - core, some spilt, some in stacked boxes under soil and moss - approx
19.6 to 27.9m @ 300 degrees from L8N/175mE;
- is a clearly defined old trail from creek to core
samples #s 32 - 46 incl (45 and 46 from spilt core)

Sept 25 - PB, KB
- along and either side of L8N from 225mE to 750mE
samples #s 47 - 53 incl

Sept 27 - PB, KB

-along and between

-L6N from 125mE to 575mE

-L7N from 125mE to 650mE

-L8N from 750mE to 225mE

samples #s 54 - 60 incl; **samples #s 70 - 74** incl;

(Inadvertently omitted #s 61-69. Didn't realize it until #114 was bagged, then used 61-69 between 114 & 115.)

(see Oct 20 below)

Oct 3 - PB, KB

-along and between

-L8N from BL to 890mW

-L9N from 815mW to BL0

samples #s 75 - 79 incl

Oct 4 - PB, KB

-along and between

-L11N from BL0 to 925mW

-L10N from 825mW to BL0

samples #s 80 - 84 incl

Oct 11, 13, 14, 15 incl - PB, KB

-area from BL0 to north boundary of claim 1218739 along and between

L's 10N, 11N, 12N, 13N, 14N

samples #s 85 - 114 incl

Oct 20 - PB, KB

-along and between

-L16N from BL0 to 900mE

-L17N from 925mE to BL0

samples #s 61 - 69 incl. (see Sept 27)

Oct 23 - PB, KB

-redo along and between

-L17N from BL0 to 280mE, and from 380mE to 925mE

-L18N from 800mE to 480mE, and from 170mE to BL0

samples #s 121, 122

Oct 24 - PB, KB

-along and between

-L18N from BL0 to 558mW

-L19N from BL0 to 480mW

-along NS boundary of 1218739 & 1218740 between #1 and #2 posts of 1218740

samples #s 123 - 129 incl

Oct 29 - PB, KB

-KB along and between L12N from 050mW to 1050mW; L13N from BL0 to 1025mW;
L14N from 600mW to 850mW

-PB along and between L12N from 050mW to 1050mW; L13N from 1025mW to BL0

samples #s 130 - 137 incl

Oct 30 - PB, KB

- along and between

-L14N from BL0 to 950mW

-L15N from BL0 to 850mW

samples #s 138 - 145 incl

Nov 4 - PB, KB

-along and between

-L16N from BL0 to 775mW

-L17N from BL0 to 660mW

samples #s 146 - 151 incl

Nov 5

KB - along and between L14N from BL0 to 275mW; L15N from BL0 to 275mW

samples #s 152 - 159 incl

Nov 7 - PB, KB

-area within 250mW to 550mW along and between L's 15N, 14N, 13N

samples # 160 - 164 incl

Nov 10 - PB, KB

- area within BL0 and 500mW along and between L's 14N, 13N, 12N, 11N

samples #s 165 - 169 incl

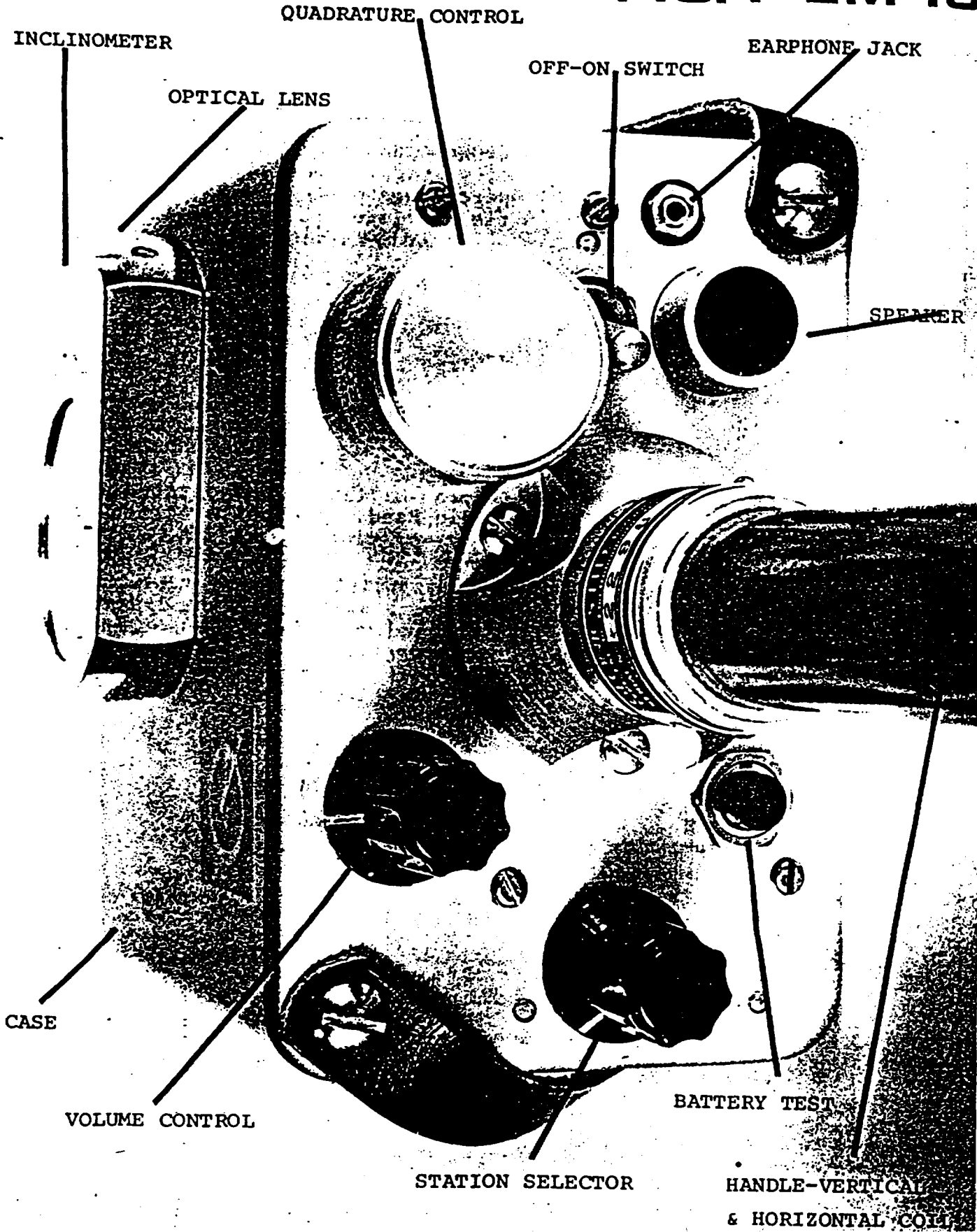
Nov 12

KB - redo area within 100mW and 300mW along and between L's 10, 11, 12

Total of 169 samples taken from project site

APPENDIX 7
VLf EM-16 SPECIFICATIONS AND OPERATION

FIG. 1 EM 16



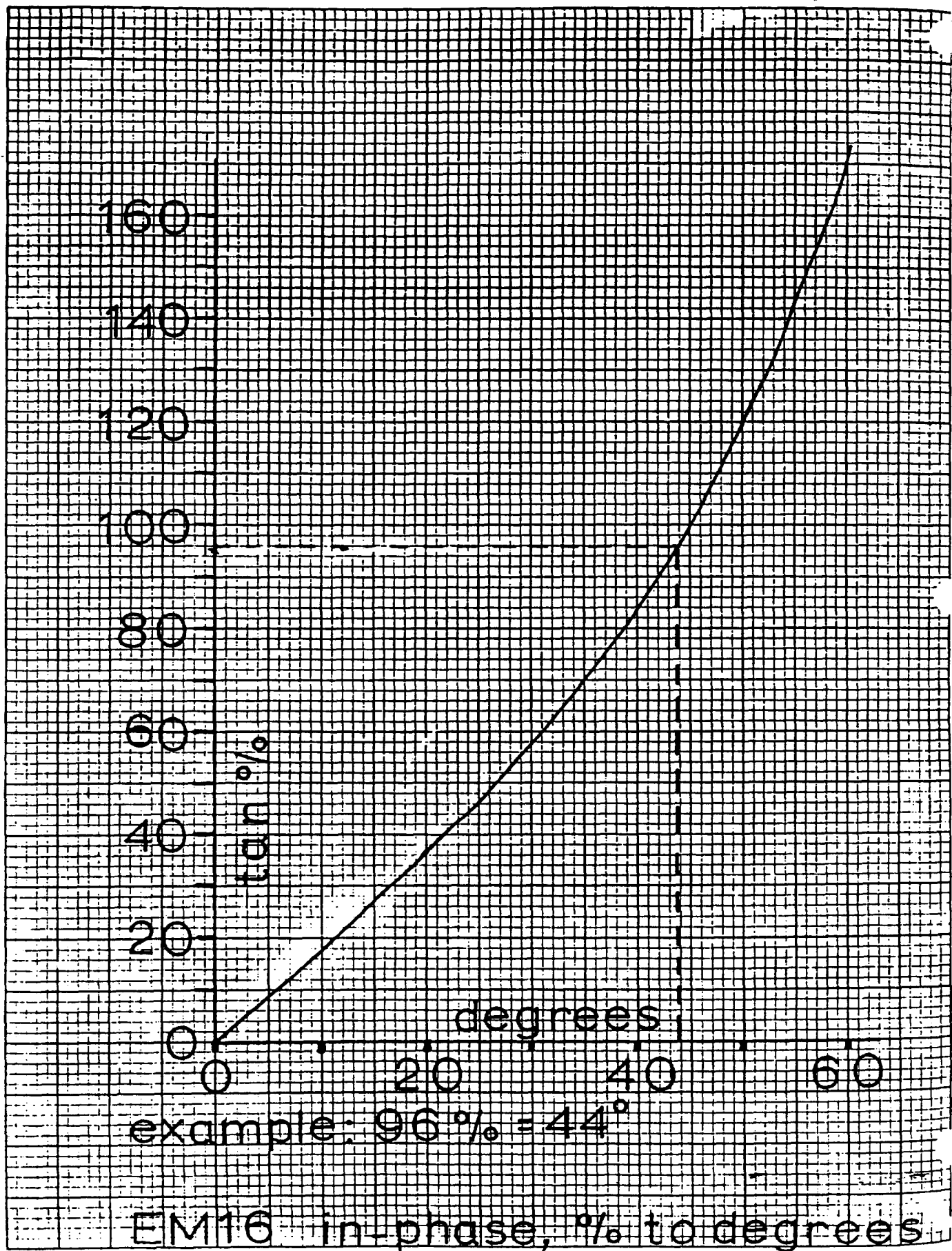
EM16 SPECIFICATIONS

MEASURED QUANTITY	Inphase and quad-phase components of vertical magnetic field as a percentage of horizontal primary field. (i.e. tangent of the tilt angle and ellipticity).
SENSITIVITY	Inphase: $\pm 150\%$ Quad-phase: $\pm 40\%$
RESOLUTION	$\pm 1\%$
OUTPUT	Nulling by audio tone. Inphase indication from mechanical inclinometer and quadphase from a graduated dial.
OPERATING FREQUENCY	15-25 kHz (15-30 kHz optional) VLF Radio Band. Station selection done by means of plug-in units.
OPERATOR CONTROLS	ON/OFF switch, battery test push button, station selector switch, audio volume control, quadrature dial, inclinometer.
POWER SUPPLY	6 disposable 'AA' cells.
DIMENSIONS	53 x 21.5 x 28 cm
WEIGHT	Instrument: 1.8 kg Shipping: 8.35 kg

CAUTION:

EM16 inclinometer may be damaged by exposure to temperatures below -30°C . Warranty does not cover inclinometers damaged by such exposure.

K&W 5 X 5 TO THE CENTIMETER 46 1620
10 X 24 CM. MADE IN U. S. A.
KEUFFEL & ESSER CO.



FIELD PROCEDURE

Orientation & Taking a Reading

The direction of the survey lines should be selected approximately along the lines of the primary magnetic field, at right angles to the direction to the station being used. Before starting the survey, the instrument can be used to orient oneself in that respect. By turning the instrument sideways, the signal is minimum when the instrument is pointing towards the station, thus indicating that the magnetic field is at right angles to the receiving coil inside the handle. (Fig.11).

To take a reading, first orient the reference coil (in the lower end of the handle) along the magnetic lines. (Fig.12) Swing the instrument back and forth for minimum sound intensity in the speaker. Use the volume control to set the sound level for comfortable listening. Then use your left hand to adjust the quadrature component dial on the front left corner of the instrument to further minimize the sound. After finding the minimum signal strength on both adjustments, read the inclinometer by looking into the small lens. Also, mark down the quadrature reading.

While travelling to the next location you can, if you wish, keep the instrument in operating position. If fast changes in the readings occur, you might take extra stations to pinpoint accurately the details of anomaly.

The dials inside the inclinometer are calibrated in positive and negative percentages. If the instrument is facing 180° from the original direction of travel, the polarities of the readings will be reversed. Therefore, in the same area take the readings always facing in the same direction even when travelling in opposite way along the lines.

The lower end of the handle, will as a rule, point towards the conductor. (Figs.13 & 14) The instrument is so calibrated that when approaching the conductor, the angles are positive in the in-phase component. Turn always in the same direction for readings and mark all this on your notes, maps, etc.

THE INCLINOMETER DIALS

The right-hand scale is the in-phase percentage (ie. H_s/H_p as a percentage). This percentage is in fact the tangent of the dip angle. To compute the dip angle simply take the arc-tangent of the percentage reading divided by 100. See the conversion graph on the following page.

The left-hand scale is the secant of the slope of the ground surface. You can use it to "calculate" your distance to the next station along the slope of the terrain.

- (1) Open both eyes.
- (2) Aim the hairline along the slope to the next station to about your eye level height above ground.
- (3) Read on the left scale directly the distance necessary to measure along the slope to advance 100 (ft) horizontally.

We feel that this will make your reconnaissance work easier. The outside scale on the inclinometer is calibrated in degrees just in case you have use for it.

PLOTTING THE RESULTS

For easy interpretation of the results, it is good practice to plot the actual curves directly on the survey line map using suitable scales for the percentage readings. (Fig.15) The horizontal scale should be the same as your other maps on the area for convenience.

A more convenient form of this data is easily achieved by transforming the zero-crossings into peaks by means of a simple numerical filtering technique. This technique is described by D.C. Fraser in his paper "Contouring of VLF-EM Data", Geophysics, Vol. 34, No. 6. (December 1969)pp958-967. A reprint of this paper is included in this manual for the convenience of the user.

This simple data manipulation procedure which can be implemented in the field produces VLF-EM data which can be contoured and as such provides a significant advantage in the evaluation of this data.

APPENDIX 8
VLf LOG

Ontario Prospector's Assistance Program**VLF Log**

Registration number OP 98-333
Receipient Peter Bilenki Prospector's lic: K22227
Helper Karen Beith M25825

EM-16 operator - PB

Sept 9 - L1N from BL0 to 115mE, from BL0 to 115mW;
L2N from BL0 to 210mE, from BL0 to 160mW;
L3N from BL0 to 050mW;
650m VLF

Sept 10 - L3N from BL0 to 305mE;
L4N from 420mE to BL0;
725m VLF

Sept 11 - L3N from 075mW to 275mW;
L4N from 350mW to 054mW;
500m VLF

Sept 23 - L6N from BL0 to 600mW;
L7N from 650mW to BL0/745mN;
1275m VLF

Oct 4 - L11N from BL0 to 925mW;
L10N from 825mW to BL0;
1775m VLF

Oct 23 - L17N from BL0 to 280mE and from 380mE 925mE;
L18N from 800mE t 480mE and from 170mE to BL0;
1315m VLF

Oct 24 - L18N from BL0 to 560mW;
L19N from 480mW to BL0;
1050m VLF

Oct 25 - L19N from BL0 to 085mE;
L21N from 040mW to 290mW;
L20N from 370mW to 015mW;
690m VLF

Oct 29 - L12N from 050mW/BL0 to 1050mW;
L13N from 1035mW to BL0;
2025m VLF

Oct 30 - L14N from BL0 to 950mW;
L15N from 850mW to BL0;
1825m VLF

Nov 4 - L16N from BL0 to 775mW;
L17N from 660mW to BL0;
1435m VLF

Nov 5 - L6N from 125mE to 575mE;
L7N from 150mE to 650mE;
L8N from 225mE to 750mE;
1500m VLF

Nov 12 - L16N from BL0 to 900mE;
L15N from 700mE to BL0;
L14N from BL0 to 625mE;
L13N from 675mE to BL0;
L8N from 025mE to 200mE;
L7N from 100mE to BL0;
L6N from 025mE to 100mE;
L5N from 025mW to 425mW;
3725m VLF

Total 18660m VLF

Total 774 stns



42A05NE2021 2.19548 TURNBULL 900

Sections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, this work and correspond with the mining land holder. Questions about this collection and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

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

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

Name	J. Kevin Filo - Filo Exploration Services Ltd.	Client Number	131784
Address	535 Bartleman Avenue Timmins Ont P4N 4X2	Telephone Number	705-268-0371
		Fax Number	
Name	David V. Jones - For Pro Resources Ltd.	Client Number	149868
Address	Box 1513 South Porcupine, Ont P0N 1H0	Telephone Number	705-235-2474
		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	Flagged grid; prospecting; assays; UCF-EM 16.	Office Use	
		Commodity	
		Total \$ Value of Work Claimed	\$ 16,008
Dates Work Performed	From 04 09 98 To 13 11 98	NTS Reference	
Global Positioning System Data (if available)	Township/Area TURNBULL TWP	Mining Division	Porcupine
	M or G-Plan Number G-3250	Resident Geologist District	Timmins

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)

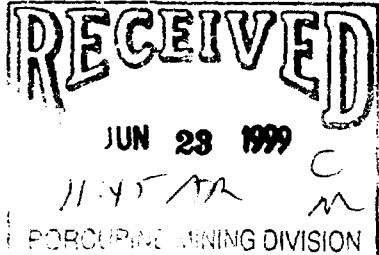
Name	Peter Bilenki	Telephone Number	705-360-5177
Address	P.O. Box 1043, Schumacher, Ont P0N 1G0	Fax Number	
Name	Kevin Filo, Geological consultant, report supplements	Telephone Number	705-360-5177
Address	535 Bartleman Avenue, Timmins P4N 4X2	Fax Number	
Name		Telephone Number	
Address		Fax Number	

4. Certification by Recorded Holder or Agent

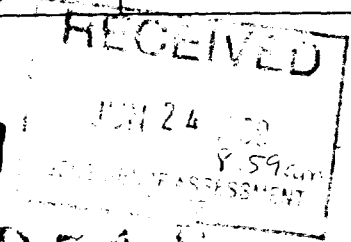
I, Peter Bilenki (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent	<i>Peter Bilenki</i>	Date	June 9/99
Agent's Address	P.O. Box 1043 Schumacher Ont P0N 1G0	Telephone Number	705-360-5177
		Fax Number	

0241 (03/97)



Deemed September 21 '99



2.19548

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany form.

W9960.00289

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 1218739	16	16008	12800	3200	8
2 1218740	8	—	3200	—	—
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals	24	16008	16000	3200	8

I, Peter J. A. Bilenki, 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 Record Holder or Agent Authorized in Writing

Date June 9, 1999

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): 1218739

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

0241 (03/97)
RECEIVED
 JUN 23 1999
 11:45 AM
 PORCUPINE MINING DIVISION

RECEIVED
 JUN 23 1999
 GEOLOGICAL ASSESSMENT



Statement of Costs for Assessment Credit

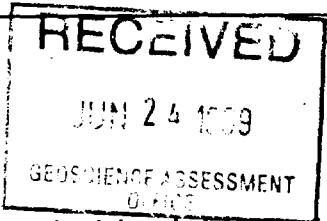
Transaction Number (office use)

W9960-00289

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, this 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 a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Table with 4 columns: Work Type, Units of work, Cost Per Unit of work, Total Cost. Rows include: Compressed & flagged grid, VLF EM-16 survey on grid, Prospecting survey field days, Assays - 77 samples, Prospecting plotting & final report, Final report supplement - geological & mineralogical, Associated Costs (mobilize/demobilize, supplies, photocopying), Transportation Costs, Food and Lodging Costs.

Total Value of Assessment Work 16008.00



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.

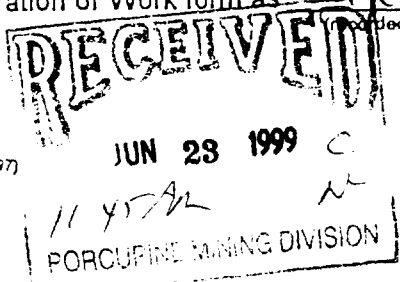
TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total \$ value of worked claimed.

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.

Certification verifying costs:

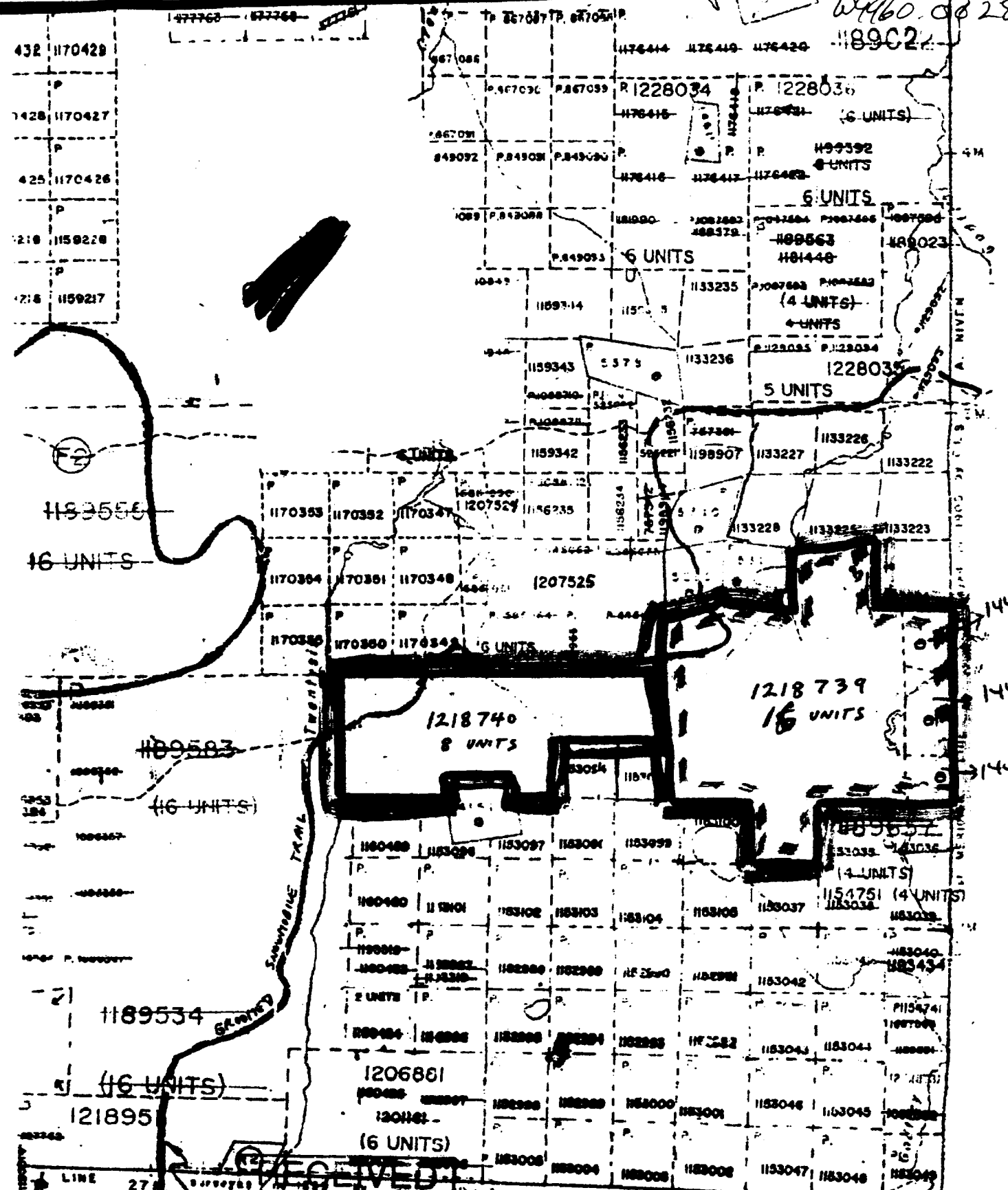
Peter J. A. Bilenki, do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying

Declaration of Work form as agent (see authorization attached) I am authorized to make this certification.



Signature: Peter Bilenki, Date: June 8/99

W460.08289
1189024



14483
14484
14485

RECEIVED
 JUN 23 1999
 11:45 AM
 DIVISION

RECEIVED
 JUN 24 1999
 GEOSCIENCE ASSESSMENT OFFICE
 TUNBULL TWP.

2.19548

CLAIMS WORK PERFORMED ON
 [Redacted]
 CLAIMS WORK

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

Telephone: (888) 415-9846
Fax: (877) 670-1555

July 12, 1999

JOHN KEVIN FILO
535 BAETLEMAN STREET
TIMMINS, Ontario
P4N-4X2

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

Dear Sir or Madam:

Submission Number: 2.19548

Status

Subject: Transaction Number(s): W9960.00289 Deemed Approval

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 Steve Beneteau by e-mail at steve.beneteau@ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,



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

Work Report Assessment Results

Submission Number: 2.19548

Date Correspondence Sent: July 12, 1999

Assessor: Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9960.00289	1218739	TURNBULL	Deemed Approval	July 12, 1999

Section:

9 Prospecting PROSP

14 Geophysical VLF

Correspondence to:

Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

Peter Bilenki
SCHUMACHER, ONTARIO, CANADA

JOHN KEVIN FILO
TIMMINS, Ontario

DAVID V. JONES
SOUTH PORCUPINE, Ontario

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY
 S.R.O. - SURFACE RIGHTS ONLY
 M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

- (R2) - AGGREGATE PERMIT - NOTICE RECEIVED JUNE 16, 1993
- (R3) - THE MINING AND SURFACE RIGHTS ARE WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990 DATED JAN. 11, 1996 AT 10:16 A.M. ORDER NO. W-P-1/96 NER.

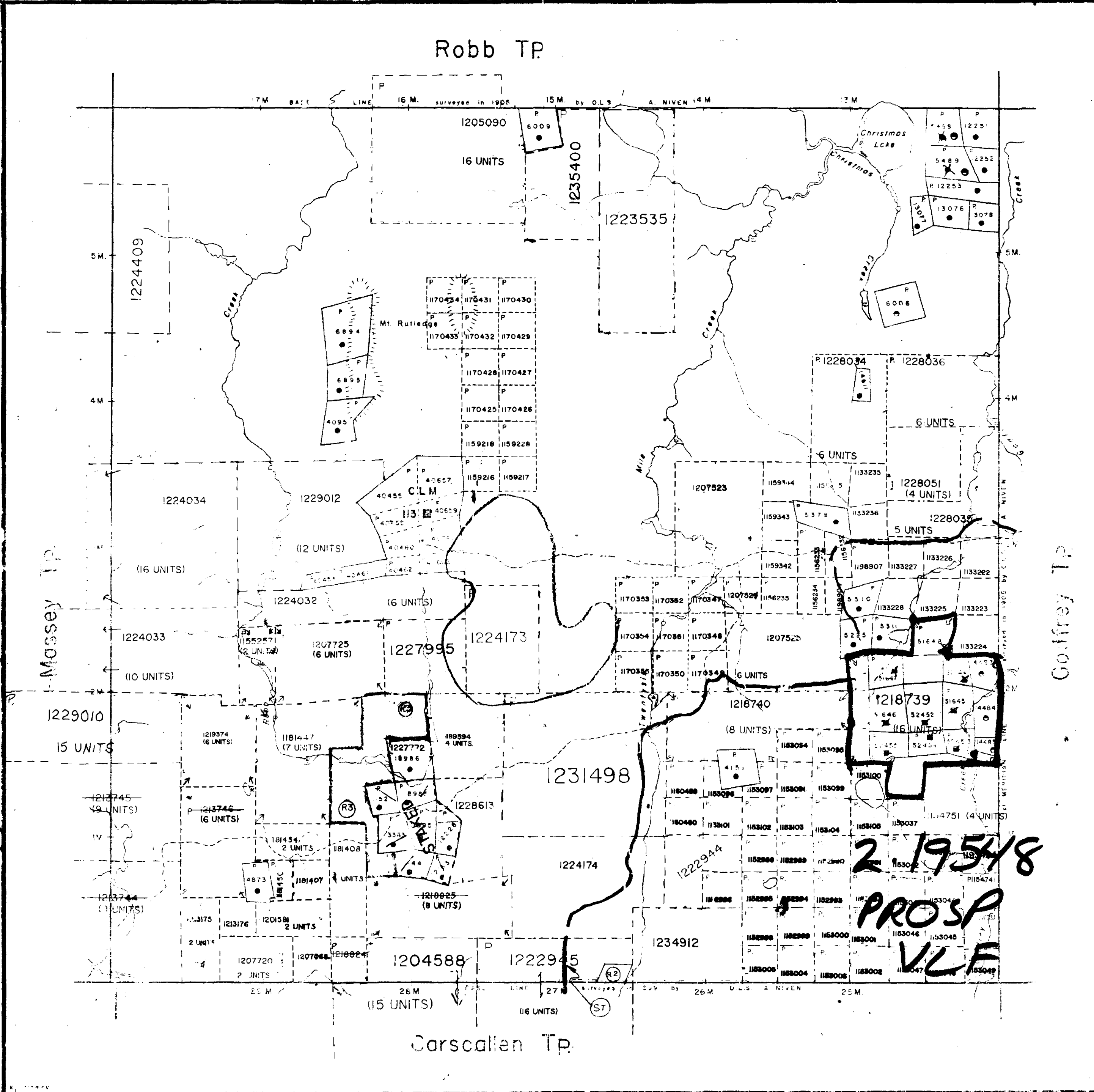
NOTES

THIS TOWNSHIP LIES WITHIN THE MUNICIPALITY OF THE CITY OF TIMMINS.

- (ST) - PROPOSED SNOWMOBILE TRAIL NOTICE REC'D 93-MAY-20
- (F2) - THIS TWP SUBJECT TO FOREST ACTIVITY IN 1995-9 FURTHER INFORMATION AVAILABLE ON FILE.

□ - open
 June 1/94.
 (see Ont. Gazette)

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



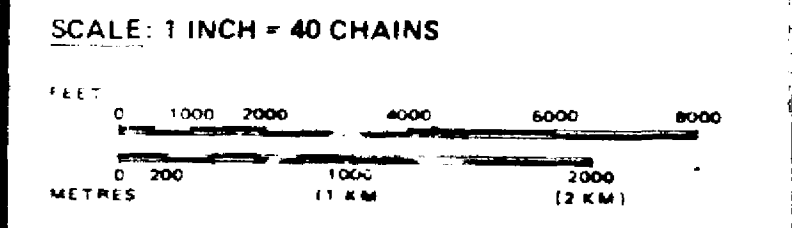
LEGEND

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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	■
" MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	▽
ORDER IN COUNCIL	○
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1910 CHAP. 380, SEC. 63 SUBSEC. 1

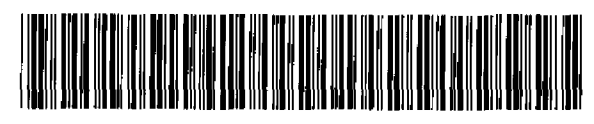


TOWNSHIP
TURNBULL
 M.N.R. ADMINISTRATIVE DISTRICT
 TIMMINS
 MINING DIVISION
 PORCUPINE
 LAND TITLES / REGISTRY DIVISION
 COCHRANE

DATE OF ISSUE
 APR. 27 1985
 PROVINCIAL RECORDING
 OFFICE - SUDBURY

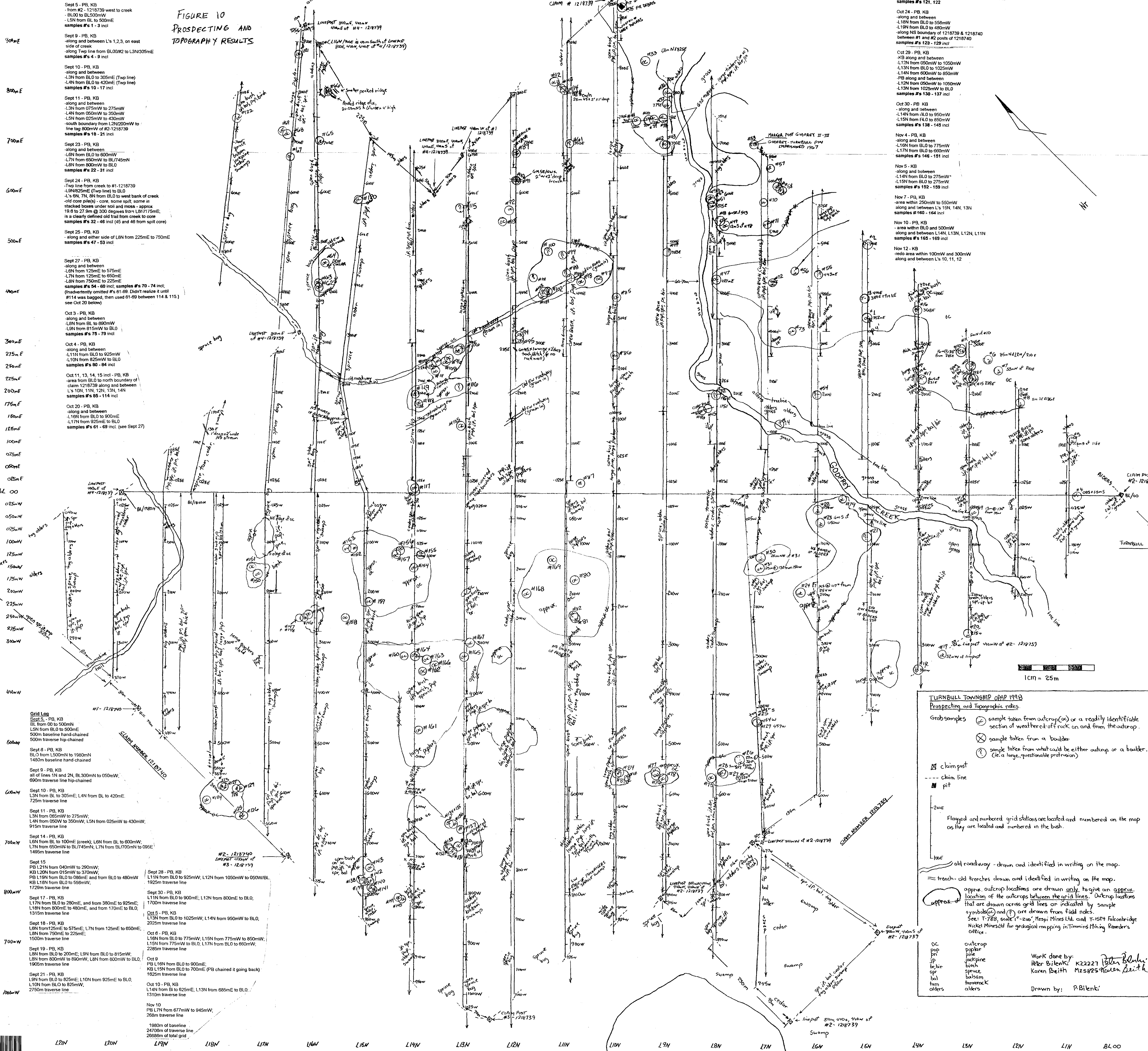
Ministry of Natural Resources
 Land Management Branch
 Ontario

Date: MARCH, 1985
 Number: G-3250
ACTIVATED JANUARY 30, 1990



Ontario Prospector's Assistance Program
 Registration number: OP 89-333
 Occupant: Peter Bilentz Lic: K22227
 Helper: Karen Beith Lic: M25825

**FIGURE 10
 PROSPECTING AND
 TOPOGRAPHY RESULTS**



Oct 23 - PB, KB
 -redo along and between
 -L17N from BLO to 230mE, and from 300mE to 925mE;
 -L18N from 800mE to 490mE, and from 170mE to BLO
 samples #s 121, 122

Oct 24 - PB, KB
 -along and between
 -L18N from BLO to 558mW
 -L19N from BLO to 490mW
 -along NS boundary of 1218739 & 1218740
 between #1 and #2 posts of 1218740
 samples #s 123 - 129 incl

Oct 29 - PB, KB
 -KB along and between
 -L12N from 050mW to 1050mW
 -L13N from BLO to 1050mW
 -L14N from 600mW to 850mW
 -PB along and between
 -L12N from 050mW to 1050mW
 -L13N from 1025mW to BLO
 samples #s 130 - 137 incl

Oct 30 - PB, KB
 -along and between
 -L14N from BLO to 850mW
 -L15N from BLO to 850mW
 samples #s 138 - 145 incl

Nov 4 - PB, KB
 -along and between
 -L16N from BLO to 775mW
 -L17N from BLO to 660mW
 samples #s 146 - 151 incl

Nov 5 - KB
 -along and between
 -L14N from BLO to 275mW
 -L15N from BLO to 275mW
 samples #s 152 - 159 incl

Nov 7 - PB, KB
 -area within 250mW to 550mW
 along and between L's 15N, 14N, 13N
 samples #s 160 - 164 incl

Nov 10 - PB, KB
 -area within BLO and 500mW
 along and between L's 14N, 13N, 12N, 11N
 samples #s 165 - 168 incl

Nov 12 - KB
 -redo area within 100mW and 300mW
 along and between L's 10, 11, 12

Sept 5 - PB, KB
 -from #2 - 1218739 west to creek
 -BLO to 500mW
 -L5N from BLO to 500mE
 samples #s 1 - 3 incl

Sept 9 - PB, KB
 -along and between L's 1, 2, 3, on east
 side of creek
 -along Twp line from BLO to 420mE
 samples #s 4 - 9 incl

Sept 10 - PB, KB
 -along and between
 -L3N from BLO to 305mE (Twp line)
 -L4N from BLO to 420mE (Twp line)
 samples #s 10 - 17 incl

Sept 11 - PB, KB
 -along and between
 -L3N from 075mW to 275mW
 -L4N from 050mW to 350mW
 -L5N from 025mW to 450mW
 south boundary from L2N200mW to
 line tag 800mW of #2-1218739
 samples #s 18 - 21 incl

Sept 23 - PB, KB
 -along and between
 -L6N from BLO to 600mW
 -L7N from 650mW to BL745mN
 -L8N from 800mW to BLO
 samples #s 22 - 31 incl

Sept 24 - PB, KB
 -Twp line from creek to #1-1218739
 -L8N/825mE (Twp line) to BLO
 -L's 8N, 7N, 6N from BLO to west bank of creek
 -old core (pile) - core, some split, some in
 stacked boxes under soil and moss - approx
 19.6 to 27.9m @ 300 degrees from L8N/75mE,
 is a clearly defined old trail from creek to core
 samples #s 32 - 46 incl (45 and 46 from split core)

Sept 25 - PB, KB
 -along and either side of L6N from 225mE to 750mE
 samples #s 47 - 53 incl

Sept 27 - PB, KB
 -along and between
 -L6N from 125mE to 575mE
 -L7N from 125mE to 650mE
 -L8N from 750mE to 225mE
 samples #s 54 - 69 incl, samples #s 70 - 74 incl,
 (inadvertently omitted #s 61-69. Didn't realize it until
 #114 was bagged, then used 61-69 between 114 & 115.)
 see Oct 20 below)

Oct 3 - PB, KB
 -along and between
 -L8N from BLO to 880mW
 -L9N from 815mW to BLO
 samples #s 75 - 79 incl

Oct 4 - PB, KB
 -along and between
 -L11N from BLO to 925mW
 -L10N from 625mW to BLO
 samples #s 80 - 84 incl

Oct 11, 13, 14, 15 incl - PB, KB
 -area from BLO to north boundary of
 claim 1218739 along and between
 L's 10N, 11N, 12N, 13N, 14N
 samples #s 85 - 114 incl

Oct 20 - PB, KB
 -along and between
 -L18N from BLO to 800mE
 -L17N from 925mE to BLO
 samples #s 61 - 68 incl (see Sept 27)

Grid Log

Sept 5 - PB, KB
 BLO from 0 to 800mW
 L5N from BLO to 500mE
 500m baseline hand-chained
 500m traverse hip-chained

Sept 6 - PB, KB
 BLO from 150mN to 190mN
 140m baseline hand-chained

Sept 9 - PB, KB
 all of lines 1N and 2N, BL300mN to 050mW,
 690m traverse line hip-chained

Sept 10 - PB, KB
 L3N from BLO to 305mE, L4N from BLO to 420mE,
 725m traverse line

Sept 11 - PB, KB
 L3N from 065mW to 275mW,
 L4N from 050mW to 350mW, L5N from 025mW to 430mW,
 915m traverse line

Sept 14 - PB, KB
 L6N from BLO to 100mE (creek), L6N from BLO to 800mW,
 L7N from 650mW to BL745mN, L7N from BL700mN to 095E,
 1495m traverse line

Sept 15
 PB L21N from 040mW to 200mW;
 KB L22N from 015mW to 370mW;
 PB L19N from BLO to 086mE, and from BLO to 480mW
 KB L18N from BLO to 558mW,
 1720m traverse line

Sept 17 - PB, KB
 L17N from BLO to 280mE, and from 380mE to 925mE,
 L18N from 800mE to 490mE, and from 170mE to BLO,
 1315m traverse line

Sept 18 - PB, KB
 L8N from 725mE to 575mE, L7N from 125mE to 650mE,
 L8N from 750mE to 225mE,
 1500m traverse line

Sept 19 - PB, KB
 L8N from BLO to 200mE, L9N from BLO to 815mW,
 L8N from 800mW to 890mW, L8N from 800mW to BLO,
 1905m traverse line

Sept 21 - PB, KB
 L9N from BLO to 825mE, L10N from 925mE to BLO,
 L10N from BLO to 825mW,
 2750m traverse line

Sept 28 - PB, KB
 L11N from BLO to 925mW, L12N from 1050mW to 050W/BLO,
 1925m traverse line

Sept 30 - PB, KB
 L11N from BLO to 900mE, L12N from 800mE to BLO,
 1700m traverse line

Oct 5 - PB, KB
 L13N from BLO to 1025mW, L14N from 950mW to BLO,
 2025m traverse line

Oct 6 - PB, KB
 L16N from BLO to 775mW, L15N from 775mW to 850mW,
 L14N from 775mW to BLO, L17N from BLO to 860mW,
 2285m traverse line

Oct 9
 PB L16N from BLO to 900mE;
 KB L15N from BLO to 700mE (PB chained it going back)
 1625m traverse line

Oct 10 - PB, KB
 L14N from BLO to 425mE, L13N from 685mE to BLO,
 1310m traverse line

Nov 10
 PB L7N from 677mW to 945mW,
 268m traverse line

1980m of baseline
 24700m of traverse line
 26860m of total grid

TURNBULL TOWNSHIP OPAP 1998
 Prospecting and Topographic notes

Grabsamples
 (Circled number) sample taken from outcrop (OC) or a readily identifiable section of weathered outcrop on and from the outcrop.
 (Crossed circle) sample taken from a boulder.
 (Circle with dot) sample taken from what could be either outcrop or a boulder. (ie. a large, questionable protrusion).

Legend:
 [Dashed line] claim post
 [Dotted line] chain line
 [Square] pit

Flagged and numbered grid stations are located and numbered on the map as they are located and numbered in the bush.

old roadway - drawn and identified in writing on the map.
 trench - old trenches drawn and identified in writing on the map.
 approx - approximate outcrop locations are drawn only to give an approximate location of the outcrops between the grid lines. Outcrop locations that are drawn across grid lines are indicated by sample symbols (C) and (D) are drawn from field notes.
 See: T-783, scale 1:200, Maspi Mines Ltd. and T-1524 Falconbridge Nickel Mines Ltd for geological mapping in Timmins Mining Board's office.

OC outcrop
 pop poplar
 pin pine
 JP jack pine
 birch birch
 spr spruce
 bal balsam
 bam bamboo
 alr alders

Work done by:
 Peter Bilentz, K22227
 Karen Beith, M25825

Drawn by: P. Bilentz

Ontario Prospector's Assistance Program VLF Log
Registration number OP 98-333
Recipient Peter Bilienki Prospector's Lic. K22227
Helper Karen Beth M25825

FIGURE 11
VLF
EM-16



- Sept 9 - L1N from BLO to 115mE; from BLO to 115mW; L2N from BLO to 210mE; from BLO to 160mW; L3N from BLO to 050mW; 650m VLF
 - Sept 10 - L3N from BLO to 305mE; L4N from 420mE to BLO; 725m VLF
 - Sept 11 - L3N from 075mW to 275mW; L4N from 350mW to 050mW; 500m VLF
 - Sept 23 - L6N from BLO to 600mW; L7N from 850mW to BLO/745mN; 1275m VLF
 - Oct 4 - L11N from BLO to 925mW; L10N from 825mW to BLO; 1775m VLF
 - Oct 23 - L17N from BLO to 280mE and from 380mE 925mE; L18N from 800mE 480mE and from 170mE to BLO; 1315m VLF
 - Oct 24 - L18N from BLO to 560mW; L19N from 480mW to BLO; 1050m VLF
 - Oct 25 - L19N from BLO to 085mE; L21N from 040mW to 290mW; L20N from 370mW to 075mW; 890m VLF
 - Oct 29 - L12N from 050mW/BLO to 1050mW; L13N from 1035mW to BLO; 2025m VLF
 - Oct 30 - L14N from BLO to 950mW; L15N from 850mW to BLO; 1825m VLF
 - Nov 4 - L16N from BLO to 775mW; L17N from 950mW to BLO; 1435m VLF
 - Nov 5 - L8N from 125mE to 975mE; L7N from 150mE to 850mE; L8N from 225mE to 750mE; 1500m VLF
 - Nov 12 - L16N from BLO to 900mE; L15N from 700mE to BLO; L14N from BLO to 625mE; L13N from 875mE to BLO; L8N from 025mE to 200mE; L7N from 100mE to BLO; L8N from 025mE to 100mE; L8N from 025mW to 425mW; 3725m VLF
- Total 16660m VLF
Total 774 stns

TURNBULL TOWNSHIP OPAR 1998
VLF EM-16 SURVEY

QUADRATURE RODS IN PHASE RODS
-10% -20% -30% -40% 0 40% 20% 30% 40%

INSTRUMENT: GEONICS EM-16
INSTRUMENT DIRECTION: AZ 10°

TRANSMITTER'S DIRECTION: CUTLER, MAINE

NOTE: All readings were taken while facing North at stations on traverse lines.

Legend:
 - - - Claim post
 - - - Claim line
 - - - Flagged grid line

VLF RGS interpreted by: J.K. Fibo
EM-16 operator: P. Bilienki
Drawn by: P. Bilienki