# GEOLOGICAL REPORT
# ON
# BLUE FALCON MINES LTD.
# AND
# ROBERT LELIEVER
# PROPERTY HOLDINGS
# IN
# CENTRAL BENNEWEIS TOWNSHIP

by: Michael Alexander, B.Sc.
and
Neil Novak, B.Sc.
F.G.A.C
July 20, 1988

## INTRODUCTION

A program consisting of linecutting and geological mapping was carried out over this property during the month of May, 1988. A baseline was established at 061° starting from the old 560 road just below the properties southern boundary, with stations every 20 meters. The offset lines are on 120 meter spacing with stations every 25 meters. Two tie lines were cut at 1000 mN and 2000 mN. A second baseline was established along the power line at 090°. Lines running north from this baseline are at 100 meter spacing with 25 meter stations, except for the three eastern most claims where lines are run along the claim lines with additional lines established between these lines at appropriate intervals. Geological mapping was conducted on both grids. In addition all east - west claim lines and boundary claim lines were mapped for the claims north of the power line.

## LOCATION AND ACCESS

The property is located in central Benneweis Township (see figure 1), approximately 15km. due south of the town of Gogama, Ontario.

Access to the property is easily attained by the old 560 road, a slightly grown-in gravel road which cuts around the northeast intersection of highway 144 and the 560 road. Personnel involved in the linecutting and geological survey travelled to the work site daily by motor vehicle.

## PROPERTY DESCRIPTION

This property consist of 64 contiguous claims in Benneweis Township forming an irregular shaped block comprising some 2560 acres (see figure 1), the claim listing is as follows:

Benneweis Township P849865 to P849924 inclusive
and
P1035979 to P1035982 inclusive

These claims are held jointly by Blue Falcon Mines Ltd. and Robert Leliever both of address, 20 Advance Blvd., Brampton, Ontario L6T 4R7.

These claims are currently in good standing with the Provincial Mining Recorder.

HISTORY OF EXPLORATION

The earliest exploration activity took place during the period of 1922 to 1935, in Champagne and Churchill Townships, beginning with a gold discovery in 1922 near the railway bridge at Makwa. Several gold discoveries were made by extensive trenching activity but exploration was largely confined to the area east of the C.N.R. line. This work is described in an O.D.M report from 1934 entitled "Makwa -Churchill Area." Since these early discoveries and other discoveries in Chester Township, there have been only sporadic periods of exploration activity in the area.

In 1971 Texas Gulf Sulphur recorded work on what are now claims P1035979, 80,81 and P1035982. Three diamond drill holes were drilled near the common corner of these four claims for a total of 1005 feet. Logs of these holes are on file at the Ministry of National Resources office in Timmins, Ontario.

In 1980 Canadian Gold and Metals Ltd. performed a geophysical survey along with a small amount of stripping and blasting on what are now claims P1035979, P1035980.

The only other recorded work on the property was done by Edward J. Blanchard in the fall of 1982. At this time extensive power stripping was done over what are now claims P849880 and P849875. Two unmineralized quartz veins were exposed and blasted at that time.

The writers along with the geologist L. Bursey B.Sc. examined the property during the period late May 1988. During this time a geological survey was conducted.

## PROPERTY GEOLOGY

The entire property has been geologically mapped at a scale of 1" to 50m and is presented as figure 2 (East sheet), figure 3 (West sheet) and figure 4 (North sheet). The map area lies south of the Swayze Syncline in an intrusive complex of granitic rocks and dioritic to gabbroic rocks.

The property is dominated by granitic rocks to the west and north with granitic rocks appearing again on the eastern-most edge of the property. These rocks are dominantly medium grained homogeneous hornblende bearing granodiorites (1a) with minor sections in the west grading to medium grained biotitic granite (1b) subordinate to these are two occurrences, one of granitic aplite (1c) and one of aphanitic blue quartz porphyry. The granitic aplite is a massive fine grained concordant dike with a granular texture. This dike cuts east-west between L600E, 6+85N and L480E, 7+30N. The aphanitic blue quartz porphyry also forms a small concordant dike just east of NL100E, 10+20N trending north-northwest. Siragusa (1981) suggests that this unit is an aphanitic trondhjemitic sheet which may have rounded quartz grains up to a few millimeters.

The remainder of the property is dominated by a north - northeast to northeast trending intrusive body of intermediate to mafic migmatitic rocks. This intrusive is composed of fine to medium grained dioritic rocks (3a and 3b) and medium to very coarse grained gabbroic rocks. This unit is very heterogeneous in texture and composition varying rapidly over a few feet in grain size and mafic mineralogy. Locally the unit is texturaly homogeneous fine to medium grained diorite which closely resembles the mafic dikes in the area. Siragusa (1981) suggests that these rocks were formerly fine grained supracrystal rocks that have been subjected to widespread recrystallization and /or assimilation. Several, probably xenolithic, bodies of granodiorites, up to 50 square meters in surface area, exist within the intrusive body and occur more commonly near the contacts with the granitic rocks, several outcrops in the southeastern most claims on the north sheet (figure 4) are a fine to medium grained quartz diorite identical to the diorites found else-where in the intrusive except that it contains up to 5% visible pale blue quartz.

Large xenolithic bodies of metavolcanics are present throughtout the map area but are more commonly found in the granitic rocks. These metavolcanic xenoliths are dominated by fine to medium grained flows (1a), displaying varied degrees of chloritization and recrystallization. They very from weakly foliated in an east-west direction to massive in nature and may be up to 50 meters wide and up to 100 meters long. The felsic to intermidiate metavolcanics are probably pyroclastic in origin and display varied types of alteration from silicification to saussaritization. These rocks commonly display moderate to strong vertical eastwest foliation.

Contd.....

Fine to medium grained diabase dikes up to 30 meters wide are numerous throughout the property. These generally trend north - northeast and cut all previously mentioned rocks. In several locations on the west side of the property a porphyritic diabase with pale green rounded phenocrysts of feldspar up to 1 centimeter, was observed, and in places rapidly graded into homogeneous grain sized diabase.

Mineralization on the property was confined to or associated with the intermediate to mafic migmatitic rocks and occured in two forms. The first type was found sporatically in the mafic rich sections of the medium to coarse grained dioritic to gabbroic rocks. Mineralized sections typically contained 5-10% (rarely up to 10%) disseminated and/or blebby pyrite and trace -1% blebby to finely disseminated chalcopyrite. A few old trenches and blasts were observed at these mineralized locations. The second type of mineralization was observed along the stripped area between claims P1035979 and P1035980. In this area the mineralization is hosted in both the granodiorite and the mafic xenoliths derived from the adjacent intermediate to mafic intrusion. Mineralization is finely disseminated pyrite and chalcopyrite up to 2% and is locally concentrated in narrow shears and narrow quartz veins up to 5% pyrite and 2% chalcopyrite, other major quartz veins on the property were observed to be barren of sulphide minrealization.

No evidence of significant structural disruptions were observed on the property. However, a few minor shear zones were observed.

## CONCLUSION

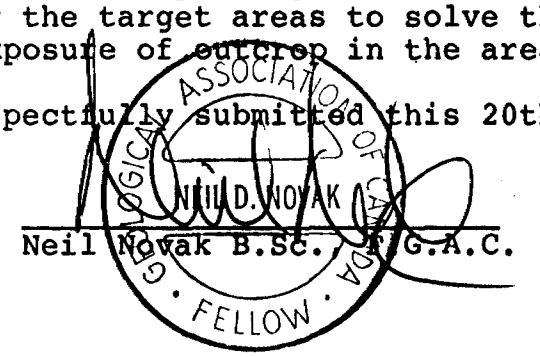
The map area is one of complex migmatitic and intrusive geology and consequently appears to have limited room for the development of major sulphide concentrations, however smaller concentrations of sulphides that host gold and/or platinoids may occur in this enviorment. Observed mineralization in the area suggests two target types for further investigation.

Firstly, sulphide zones in the grandiorite near the contact with the intermediate to mafic migmatitic rocks. This contact area should be prospected further with attention paid to locating shear zones and/or quartz vein. Any located mineralization should be sampled and assayed for gold and subsequently trenched if positive results are received.

The second target type are the sporatic sulphide concentrations in the intermediate to mafic migmatitic rocks. The whole area covered by this intrusive should be prospected to locate further sulphide concentration. Samples should be taken and assayed for gold and addition platinoids (platinum) since it is suspected the unit may be suitable host for such mineralization. Any find should have a suitable follow up program initiated.

In addition to surface prospecting basal till sampling shall be done over the target areas to solve the problem of poor surface exposure of outcrop in the area.

This report is respectfully submitted this 20th day of July 1988.




Neil Novak B.Sc., F.G.A.C.

## REFERENCE

Siragusa, G. M.
1981:Precambrian Geology of Pensyl. Lake area Sudbury District, Ontario Geological survey Map P2534, Geological series - Preliminary Map.

# CERTIFICATE

I, Neil D. Novak, do hereby certify:

(1) that I am an exploration geologist residing at 65 Cindy Avenue, Cambridge, Ontario.

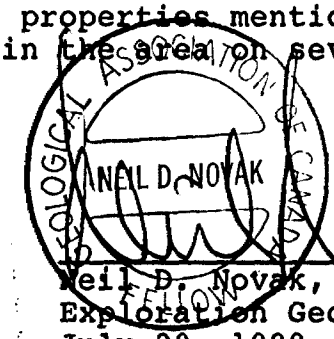
(2) that I am a graduate of the University of Waterloo, Waterloo, Ontario. and hold a Bachelor of Science degree as an Earth Scientist dated 1977;

(3) that I am a fellow in good standing of the Geological Association of Canada;

(4) that I hve been engaged in the practice of this profession since graduation;

(5) that I have no interest, direct or indirect, nor do I expect to receive any such interest in the properties or securities of Blue Falcon Mines Limited;

(6) that I have visited the properties mentioned in this report and have worked in the area on several occasions since 1982.




Neil D. Novak, B.Sc., F.G.A.C.
Exploration Geologist
July 20, 1988

# CERTIFICATE

I, MICHAEL ALEXANDER, hereby certyfy

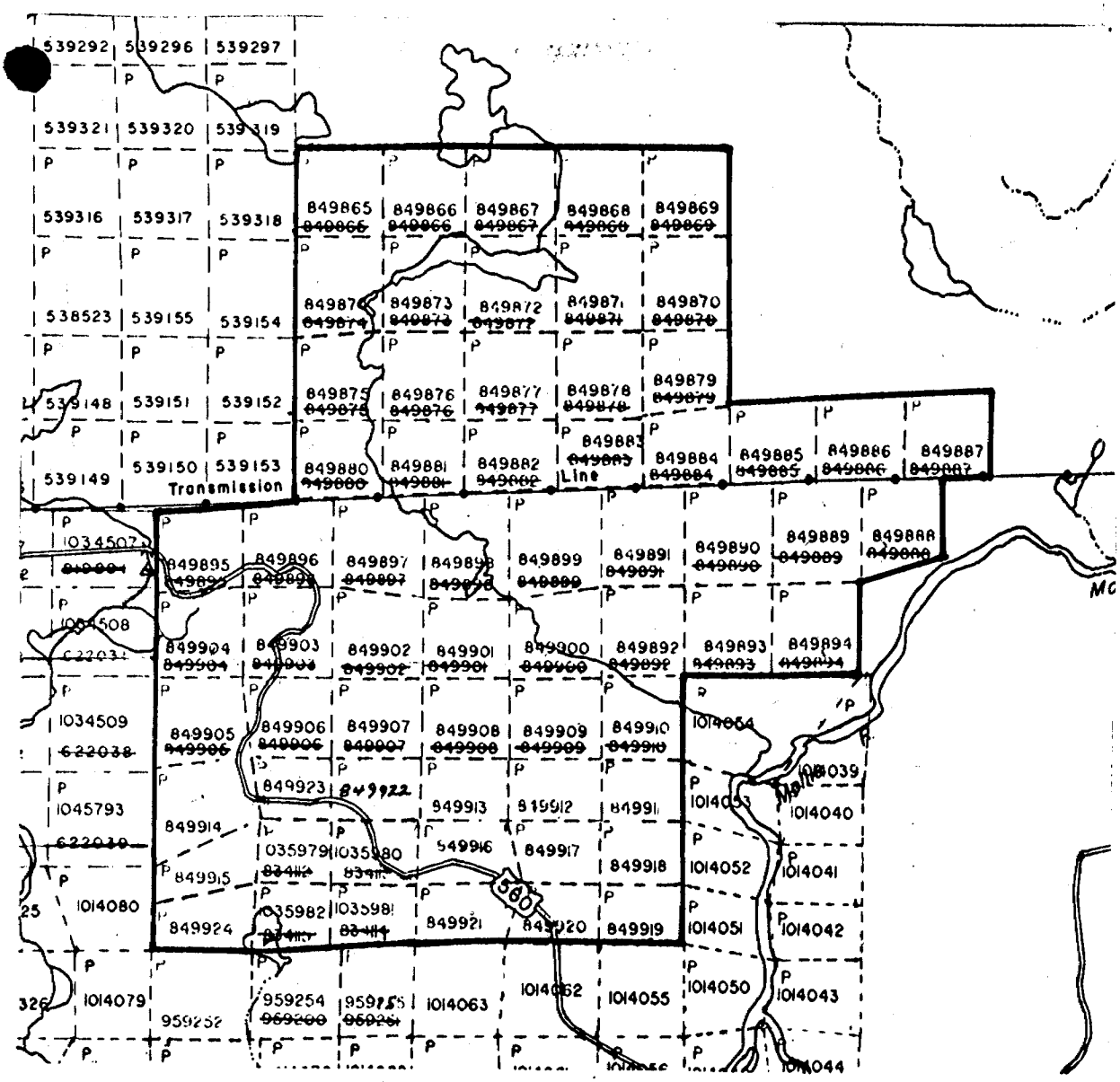
(1) that I am an exploration and mining geologist residing at, 120 Baronwood Crt. in Brampton, Ontario;

(2) that I am a graduate of Queen's University 1984,

(3) that I have been engeged in the practice of my profession for four years.

(4) that I have no interest, direct or indirect, nor do I expect to receive any such interest in the porperties or securities of Blue Falcon Mines Ltd or Robert Leliever.

Michael T. Alexander B.Sc.
Geologist
July 20, 1988




2.11448

SCALE: 1 INCH = 40 CHAINS

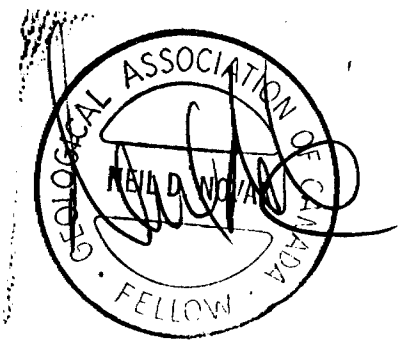
FEET
0 1000 2000 4000 6000 8000

METRES
0 200 1000 2000
(1 KM) (2 KM)

Figure 1

Property Location Map

Benneweis Township



W8806-141

Ministry of Northern Development and Mines

Ontario

# Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

DOC W8

Mining

2.11448

41P12SE0527 2.11448 BENNEWEIS

900

Type of Survey(s)
GEOLOGICAL MAPPING

Township or Area
BENNEWEIS TWP

Claim Holder(s)
BLUE FALCON MINES LTD. & (ROBERT LELIEVER)

Prospector's Licence No.
T-1441 (A-43578)

Address
20 ADVANCE BLVD. BRAMPTON ONT. L6T 4R7

Survey Company
BLUE FALCON MINES LTD.

Date of Survey (from & to): 16 Day | 05 Mo. | 88 Yr. | 01 Day | 06 Mo. | 88 Yr.

Total Miles of line Cut
78.24 km.

Name and Address of Author (of Geo-Technical report)
MIKE ALEXANDER (AS ABOVE)

Credits Requested per Each Claim in Columns at right

| Special Provisions | | Days per Claim |
|---|---|---|
| For first survey: Enter 40 days. (This includes line cutting) | Geophysical - Electromagnetic | |
| | Geophysical - Magnetometer | |
| For each additional survey: using the same grid: Enter 20 days (for each) | Geophysical - Radiometric | |
| | Geophysical - Other | |
| | Geological | 40 |
| | Geochemical | |
| **Man Days** | | **Days per Claim** |
| Complete reverse side and enter total(s) here | Geophysical - Electromagnetic | |
| | Geophysical - Magnetometer | |
| | Geophysical - Radiometric | |
| | Geophysical - Other | |
| | Geological | |
| | Geochemical | |
| **Airborne Credits** | | **Days per Claim** |
| Note: Special provisions credits do not apply to Airborne Surveys. | Electromagnetic | |
| | Magnetometer | |
| | Radiometric | |

RECEIVED
JUN 16 1988
MINING LANDS SECTION

Mining Claims Traversed (List in numerical sequence)

| Mining Claim Prefix | Mining Claim Number | Expend. Days Cr. |
|---|---|---|
| P. | 849865 | |
| | 849866 | |
| | 849867 | |
| | 849868 | |
| | 849869 | |
| | 849870 | |
| | 849871 | |
| | 849872 | |
| | 849873 | |
| | 849874 | |
| | 849875 | |
| | 849876 | |
| | 849877 | |
| | 849878 | |
| | 849879 | |
| | 849880 | |
| | 849881 | |
| | 849882 | |
| | 849883 | |
| | 849884 | |
| | 849885 | |
| | 849886 | |
| | 849887 | |

| Mining Claim Prefix | Mining Claim Number | Expend. Days Cr. |
|---|---|---|
| P | 849888 | |
| | 849889 | |
| | 849890 | |
| | 849891 | |
| | 849892 | |
| | 849893 | |
| | 849894 | |
| | 849895 | |
| | 849896 | |
| | 849897 | |
| | 849898 | |
| | 849899 | |
| | 849900 | |
| | 849901 | |
| | 849902 | |
| | 849903 | |
| | 849904 | |
| | 849905 | |
| | 849906 | |
| | 849907 | |
| | 849908 | |
| | 849909 | |
| | 849910 | |

RECORDED
JUN 17 1988

cont. next page

Total number of mining claims covered by this report of work.
60

Expenditures (excludes power stripping)

RECEIVED
JUN 17 1988

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

| Total Days Cr. Recorded | Date Recorded | Mining Recorder |
|---|---|---|
| 2,400 | JUNE 4/88 | K. White |
| | Date Approved as Recorded: See revised statement | Branch Director |

Date: June 2/88

Recorded Holder or Agent (Signature)

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying
NEIL NOVAK 20 ADVANCE BLVD. BRAMPTON ONT.

Date Certified: June 2/88

Certified by (Signature)

Report of Work

1W/8806

Also included in this report of work

Bennevelt Twp.

P 849911
849912
849913
849914
849915
849916
849917
849918
849919
849920
849921
849922
849923
849924

Ministry of Northern Development Mines — Ontario

# Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

W8808-228

Mining Act 2.11448

PAGE 1 OF 2

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

| | |
|---|---|
| Type of Survey(s): GEOLOGICAL MAPPING | Township or Area: BENNEWEIS TWP. |
| Claim Holder(s): BLUE FALCON MINES LTD. & (ROBERT LELIEVER) | Prospector's Licence No.: T 1441 (A-43578) |
| Address: 20 Advance Blvd., Brampton, Ontario L6T 4R7 | |
| Survey Company: BLUE FALCON MINES LTD. | Date of Survey (from & to): 16 05 88 (Day Mo. Yr.) 01 06 88 (Day Mo. Yr.) |
| Name and Address of Author (of Geo-Technical report): MIKE ALEXANDER (AS ABOVE) | Total Miles of line Cut: 78.24 Km |

## Credits Requested per Each Claim in Columns at right

| | | Days per Claim |
|---|---|---|
| Special Provisions: For first survey: Enter 40 days. (This includes line cutting) | Geophysical | |
| | • Electromagnetic | |
| | • Magnetometer | |
| For each additional survey: using the same grid: Enter 20 days (for each) | • Radiometric | |
| | • Other | |
| | Geological | 40 |
| | Geochemical | |
| Man Days: Complete reverse side and enter total(s) here | Geophysical | |
| | • Electromagnetic | |
| | • Magnetometer | |
| | • Radiometric | |
| | • Other | |
| | Geological | |
| | Geochemical | |
| Airborne Credits: Note: Special provisions credits do not apply to Airborne Surveys. | Electromagnetic | |
| | Magnetometer | |
| | Radiometric | |

RECEIVED
AUG. 11 1988
MINING LANDS SECTION

## Mining Claims Traversed (List in numerical sequence)

| Mining Claim Prefix | Mining Claim Number | Expend. Days Cr. |
|---|---|---|
| P | 849865 * | |
| | 849866 * | |
| | 849867 * | |
| | 849868 * | |
| | 849869 * | |
| | 849870 * | |
| | 849871 * | |
| | 849872 * | |
| | 849873 * | |
| | 849874 * | |
| | 849875 * | |
| | 849876 * | |
| | 849877 * | |
| | 849878 * | |
| | 849879 * | |
| | 849880 * | |
| | 849881 * | |
| | 849882 * | |
| | 849883 * | |
| | 849884 * | |
| | 849885 * | |
| | 849886 * | |
| | 849887 * | |

| Mining Claim Prefix | Mining Claim Number | Expend. Days Cr. |
|---|---|---|
| P | 849888 * | |
| | 849889 * | |
| | 849890 * | |
| | 849891 * | |
| | 849892 * | |
| | 849893 * | |
| | 849894 * | |
| | 849895 * | |
| | 849896 * | |
| | 849897 * | |
| | 849898 * | |
| | 849899 * | |
| | 849900 * | |
| | 849901 * | |
| | 849902 * | |
| | 849903 * | |
| | 849904 * | |
| | 849905 * | |
| | 849906 * | |
| | 849907 * | |
| | 849908 * | |
| | 849909 * | |
| | 849910 * | |

## Expenditures (excludes power stripping)

Type of Work Performed:

Performed on Claim(s):

RECEIVED
AUG 11 1988
MINING LANDS SECTION

Calculation of Expenditure Days Credits

| Total Expenditures | | Total Days Credits |
|---|---|---|
| $ | ÷ 15 = | |

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

* See page 2.

Total number of mining claims covered by this report of work: 64

For Office Use Only

| Total Days Cr. Recorded | Date Recorded | Mining Recorder |
|---|---|---|
| 160 ~~2,560~~ | JULY 22,1988 | |
| | Date Approved as Recorded: See revised statement | Branch Director |

AB

Date: July 21, 1988

Recorded Holder or Agent (Signature):

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: Gordon Lelievar 20 Advance Blvd. Brampton, Ontario

Date Certified:

Certified by (Signature):

PAGE 2 OF 2.

Also included in this report of work

Benneweis Twp.

P. 849911 *
849912 *
849913 *
849914 *
849915 *
849916 *
849917 *
849918 *
849919 *
849920 *
849921 *
849922 *
849923 *
849924 *
1035979
1035980
1035981
1035982

* Maximum allowable credit already obtained under Section 77(11) of the Mining Act.

B. Bailey

Ontario

Ministry of Northern Development and Mines

# Geophysical-Geological-Geochemical Technical Data Statement

File _____

**TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT**
**FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT**
**TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.**

Type of Survey(s) GEOLOGICAL

Township or Area BENNEWEIS TWP.

Claim Holder(s) BLUE FALCON MINES LTD. & BOB LELIEVER

Survey Company BLUE FALCON MINES LTD.

Author of Report NEIL NOVAK, MIKE ALEXANDER

Address of Author 20 ADVANCE BLVD BRAMPTON. ONT

Covering Dates of Survey MAY 16 - JUNE 1 1988 (linecutting to office)

Total ~~Miles~~ Km of Line Cut 78.24 Km.

| SPECIAL PROVISIONS CREDITS REQUESTED | | DAYS per claim |
|---|---|---|
| ENTER 40 days (includes line cutting) for first survey. | Geophysical | |
| | –Electromagnetic | |
| | –Magnetometer | |
| | –Radiometric | |
| ENTER 20 days for each additional survey using same grid. | –Other | |
| | Geological | 40 |
| | Geochemical | |

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____ (enter days per claim)

DATE: July 28/88 SIGNATURE: _____ Author of Report or Agent

Res. Geol. _____ Qualifications 2.4227

Previous Surveys

| File No. | Type | Date | Claim Holder |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

RECEIVED
JUL 29 1988
MINING LANDS SECTION

**MINING CLAIMS TRAVERSED**
**List numerically**

P-849865, 849866, 849867, 849868, 849869, 849870, 849871, 849872, 849873, 849874, 849875, 849876, 849877, 849878, 849879, 849880, 849881, 849882, 849883, 849884, 849885, 849886, 849887, 849888, 849889, 849890, 849891, 849892, 849893, 849894, 849895, 849896, 849897, 849898, 849899, 849900, 849901, 849902, 849903, 849904, 849905, 849906, 849907, 849908, 849909, 849910, 849911, 849912, 849913, 849914, 849915, 849916, 849917, 849918, 849919, 849920, 849921, 849922, 849923, 849924, 1035979, 1035980, 1035981, 1035982

(prefix) (number)

If space insufficient, attach list

TOTAL CLAIMS 64

OFFICE USE ONLY

637 (85/12)

# GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

## MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

## ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

## GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

## INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

## SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

## RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

## OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

## AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

## GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

### SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

### ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

August 31, 1988

Your File: W8806-141
W8806-228
Our File : 2.11448

Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7



Dear Sir:

RE: Notice of Intent dated August 15, 1988.
Geological Survey submitted on Mining Claims
P 849865 et al in the Township of Benneweis

---

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan, Manager
Mining Lands Section
Mines & Minerals Division

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AB:sc

cc: Blue Falcon Mines Ltd &
Mr. Robert Leliever
20 Advance Blvd
Brampton, Ontario
L6T 4R7

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Resident Geologist
Timmins, Ontario

Ministry of Northern Development and Mines
Ontario

# Technical Assessment Work Credits

File 2.11448

Date August 15, 1988

Mining Recorder's Report of Work No. W8806-141
W8806-228

Recorded Holder
Blue Falcon Mines Limited and Robert Leliever

Township ~~XXXX~~
Benneweis

| Type of survey and number of Assessment days credit per claim | Mining Claims Assessed |
|---|---|
| Geophysical | P 849865 to 70 inclusive<br>849874 to 924 inclusive<br>1035979-80-81 |
| Electromagnetic _____ days | |
| Magnetometer _____ days | |
| Radiometric _____ days | |
| Induced polarization _____ days | |
| Other _____ days | |
| Section 77 (19) See "Mining Claims Assessed" column | |
| Geological 40 days | |
| Geochemical _____ days | |
| Man days ☐ Airborne ☐ | |
| Special provision ☒ Ground ☒ | |
| ☐ Credits have been reduced because of partial coverage of claims. | |
| ☐ Credits have been reduced because of corrections to work dates and figures of applicant. | |

**Special credits under section 77 (16) for the following mining claims**

| | |
|---|---|
| 30 days | 20 days |
| P 849871-72-73 | P 1035982 |

**No credits have been allowed for the following mining claims**

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

# 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 |
|---|---|---|---|---|
| (R1) SEC 43/70 | W.2/78 | 19/10/78 | S.R.O. | 133115 |
| (R2) Re-opened | Dec. 10, 1979 | | S.R.O. & M.R. | 171508 |

## SAND AND GRAVEL

(S1) M.T.C. GRAVEL PIT 1358 File 133115

(S2) M.T.C. GRAVEL PIT 1351

△ Trapline Cabin

## NOTES

400' SURFACE RIGHTS RESERVATION AROUND MINISINAKWA LAKE TO M.N.R. FILE : 160708.

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200

# ST. LOUIS TWP.

CHESTER TWP.

CHAMPAGNE TWP.

VROOMAN TWP.

5M. 4M. 3M. 2M. 1M.

Bernice

Benneweis

Robitaille

Anne

Mollie Lake

Little Mollie

Makwa Lake

Lucienne Lake

Irene

Colleen

Amelia

Makwa

Doris

Cr.

R. 7221

(R2) - Re-opened Dec. 10, 1979

See NOTES

# LEGEND

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

# DISPOSITION OF CROWN LANDS

| TYPE OF DOCUMENT | SYMBOL |
|---|---|
| PATENT, SURFACE & MINING RIGHTS | ● |
| " , SURFACE RIGHTS ONLY | ◓ |
| " , MINING RIGHTS ONLY | ◒ |
| LEASE, SURFACE & MINING RIGHTS | ■ |
| " , SURFACE RIGHTS ONLY | ▬ |
| " , MINING RIGHTS ONLY | ▬ |
| LICENCE OF OCCUPATION | ▼ |
| ORDER-IN-COUNCIL | OC |
| RESERVATION | (R) |
| CANCELLED | ⊗ |
| SAND & GRAVEL | (S) |

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

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 (1 KM) 2000 (2 KM)

TOWNSHIP

# BENNEWEIS

M.N.R. ADMINISTRATIVE DISTRICT

GOGAMA

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

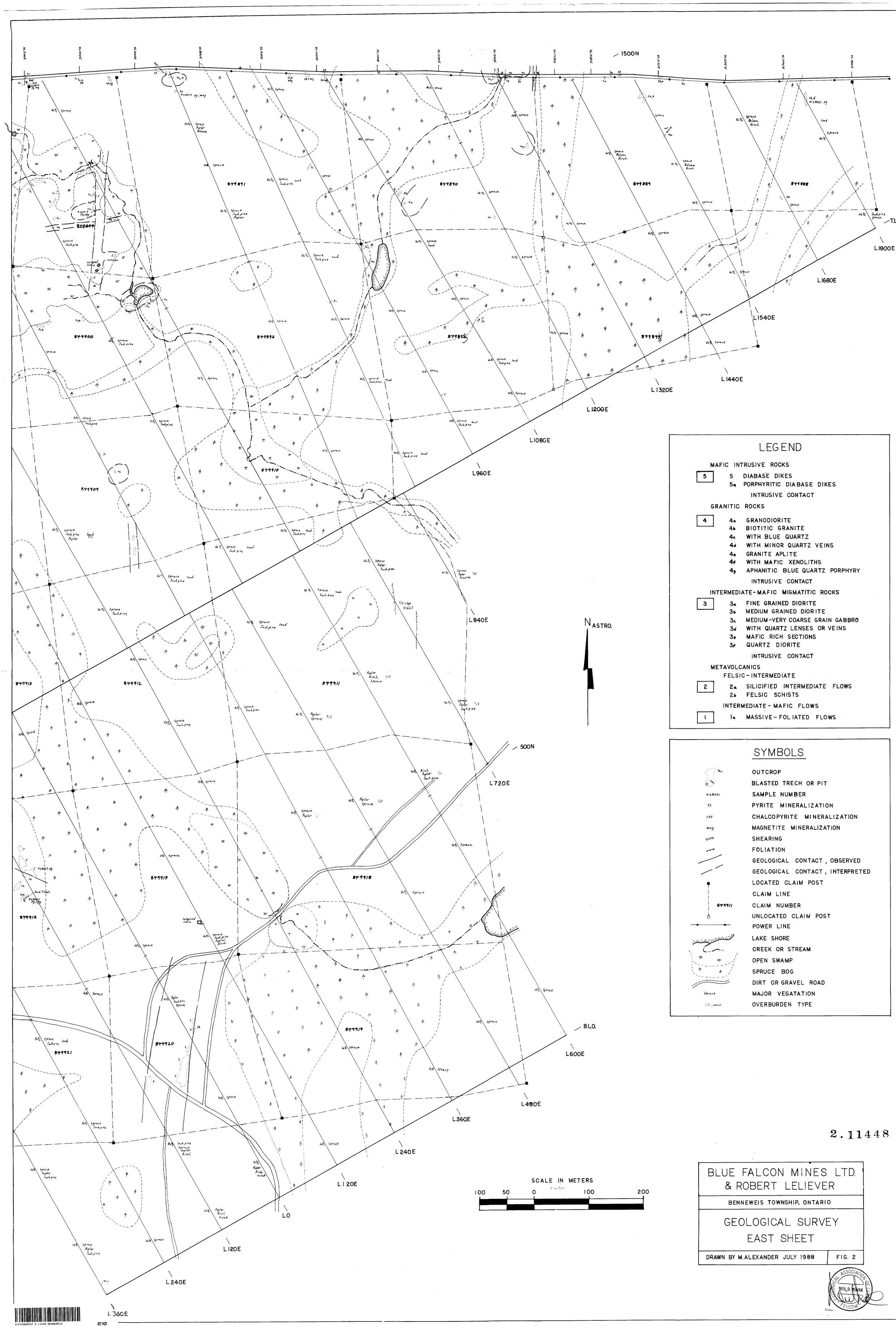
SUDBURY

PORCUPINE MINING DIVISION RECEIVED AUG 29 1988

Ontario Ministry of Natural Resources — Land Management Branch

Date MARCH, 1985

Number G-3222




## LEGEND

MAFIC INTRUSIVE ROCKS

5 — 5 DIABASE DIKES
- 5a PORPHYRITIC DIABASE DIKES

INTRUSIVE CONTACT

GRANITIC ROCKS

4 — 4a GRANODIORITE
- 4b BIOTITIC GRANITE
- 4c WITH BLUE QUARTZ
- 4d WITH MINOR QUARTZ VEINS
- 4e GRANITE APLITE
- 4f WITH MAFIC XENOLITHS
- 4g APHANITIC BLUE QUARTZ PORPHYRY

INTRUSIVE CONTACT

INTERMEDIATE-MAFIC MIGMATITIC ROCKS

3 — 3a FINE GRAINED DIORITE
- 3b MEDIUM GRAINED DIORITE
- 3c MEDIUM-VERY COARSE GRAIN GABBRO
- 3d WITH QUARTZ LENSES OR VEINS
- 3e MAFIC RICH SECTIONS
- 3f QUARTZ DIORITE

INTRUSIVE CONTACT

METAVOLCANICS

FELSIC-INTERMEDIATE

2 — 2a SILICIFIED INTERMEDIATE FLOWS
- 2b FELSIC SCHISTS

INTERMEDIATE-MAFIC FLOWS

1 — 1a MASSIVE-FOLIATED FLOWS

## SYMBOLS

- OUTCROP
- BLASTED TRECH OR PIT
- #28001 — SAMPLE NUMBER
- py — PYRITE MINERALIZATION
- cpy — CHALCOPYRITE MINERALIZATION
- mag. — MAGNETITE MINERALIZATION
- SHEARING
- FOLIATION
- GEOLOGICAL CONTACT, OBSERVED
- GEOLOGICAL CONTACT, INTERPRETED
- LOCATED CLAIM POST
- CLAIM LINE
- 849911 — CLAIM NUMBER
- UNLOCATED CLAIM POST
- POWER LINE
- LAKE SHORE
- CREEK OR STREAM
- OPEN SWAMP
- SPRUCE BOG
- DIRT OR GRAVEL ROAD
- Spruce — MAJOR VEGATATION
- till, sand — OVERBURDEN TYPE

SCALE IN METERS

100 50 0 100 200

2.11448

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& ROBERT LELIEVER

BENNEWEIS TOWNSHIP, ONTARIO

GEOLOGICAL SURVEY
EAST SHEET

DRAWN BY M. ALEXANDER JULY 1988 | FIG. 2

GEOLOGICAL ASSOCIATION OF CANADA
NEIL D. NOVAK
FELLOW

41P12SE0527 2.11448 BENNEWEIS

L240E L120E L0 L120E L240E L360E L480E L600E

2500N

T.L.2000N

1500N

T.L.1000N
061°

N ASTRO.

849895 849896 849897 849898
849904 849903 849902 849901
849905 849906 849907 849908
849914 849923 849922 849913
849915 1035979 1035980 849916
849924 1035982 1035981 849921

L1440W L1320W L1200W L1080W L960W 500N L840W L720W L600W L480W L360W

SCALE IN METERS
100 50 0 100 200

FOR LEGEND AND SYMBOLS
SEE EAST SHEET

2.11548

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& ROBERT LELIEVER

BENNEWEIS TOWNSHIP, ONTARIO

GEOLOGICAL SURVEY
WEST SHEET

DRAWN BY M. ALEXANDER JULY 1988 | FIG. 3

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CAVE DRAWING LAKE
(unofficial name)

1500N

1000N

500N

P.L.BL.

NL 100E NL 200E NL 300E NL 400E NL 500E NL 600E NL 700E NL 800E NL 900E NL 1000E NL 1100E NL 1200E NL 1300E NL 1400E NL 1465E NL 1575E NL 1675E NL 1775E NL 1900E NL 2000E NL 2100E NL 2200E NL 2325E NL 2450E NL 2575E NL 2700E

N ASTRO.

SCALE IN METERS
100 50 0 100 200

FOR LEGEND AND SYMBOLS
SEE EAST SHEET

2.11448

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BENNEWEIS TOWNSHIP, ONTARIO

GEOLOGICAL SURVEY
NORTH SHEET

DRAWN BY M. ALEXANDER JULY 1988 | FIG. 4

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