



42C13SW8802 2.15193 WABIKOBA LAKE

010

ARMAND LAKE PROPERTY

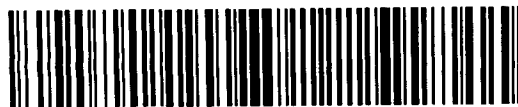
**Geology Report
for
Brian Fowler/Mike Shuman**

NTS 42 C 13

September, 1993

Aubrey J. Eveleigh ✓
Clark Geological Consulting

2.15.1993



42C13SW8802 2.15193 WABIKOBA LAKE

010C

TABLE OF CONTENTS

Introduction..... 1

Location and Access..... 2

Claims..... 4

Previous Exploration..... 6

Regional Geology..... 7

Property Geology..... 8

Alteration and Mineralization..... 9

Conclusions and Recommendations.....10

References.....11

Certificate of Qualifications.....12

LIST OF FIGURES

Figure 1: Location Map..... 3

Figure 2: Claim Map..... 5

APPENDICES

- Appendix 1: Sample Record Sheet
- Appendix 2: Assay Certificates

MAPS

- Map 1: Geology (in pocket)

INTRODUCTION

On September 11 and 12 Geologists Aubrey Eveleigh and David Gliddon performed geological mapping on the Armand Lake Property for prospectors Brian Fowler and Mike Shuman. A total of 11 samples were taken and assayed for Copper, Zinc and Gold.

The property is considered to be a favourable area for hosting economic gold mineralization. This North Limb of the Hemlo Belt is believed to contain geology similar to that around the Hemlo mines and therefore warrants the attention of exploration.

LOCATION AND ACCESS

The Armand Lake Property is located in the Schreiber-Hemlo Resident Geologist Area of Ontario. The property is approximately 20 km Northeast of the Hemlo mine sites. The claims are located North of Musher Lake in the Wabikoba Lake Area.

Access can be had via Highway 614 (Manitouwadge Highway) and turning off onto the Dotted Lake road at Kilometre 11. A new logging road called the Twist Lake Road runs approximately 400 metres North of the property boundary.

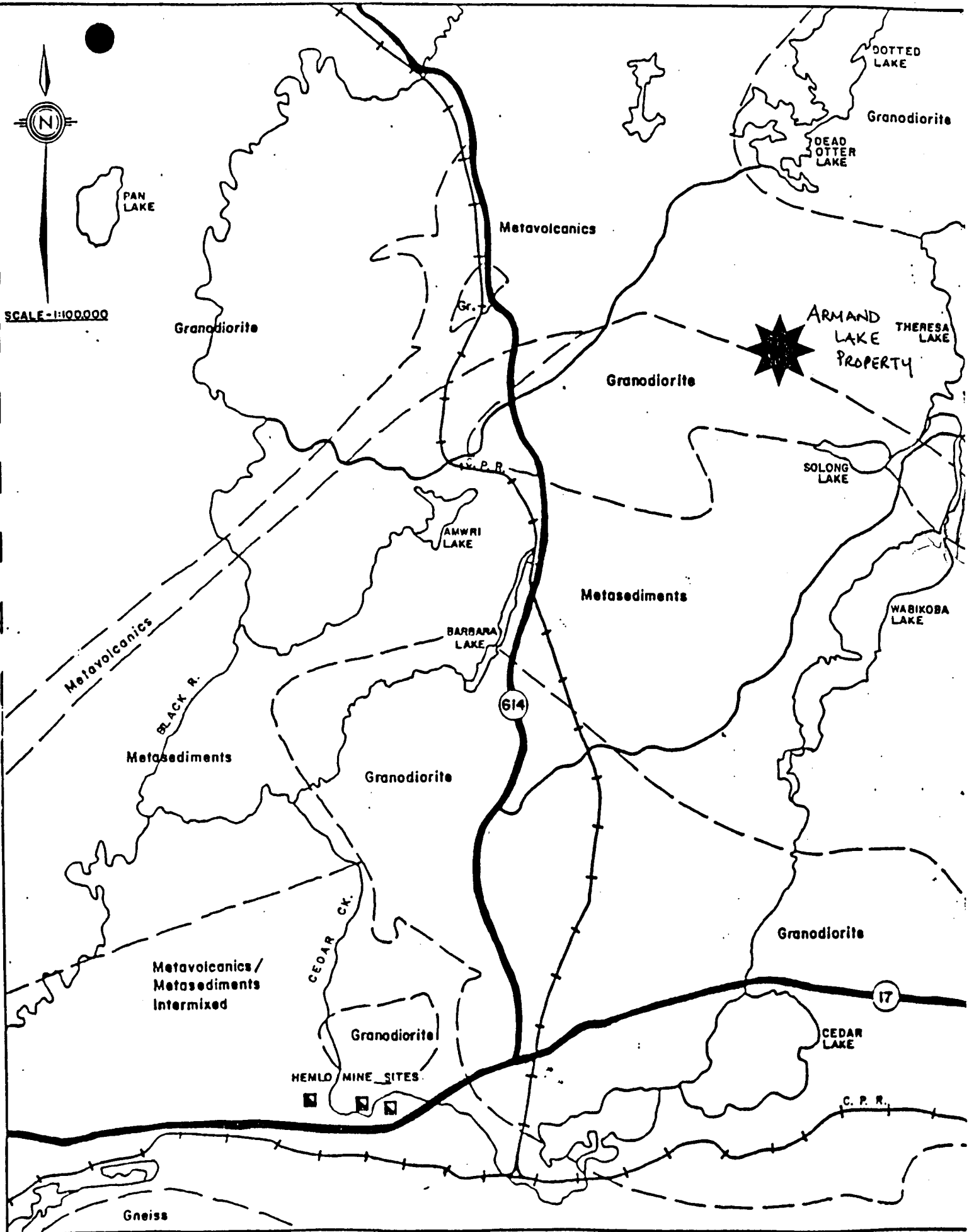
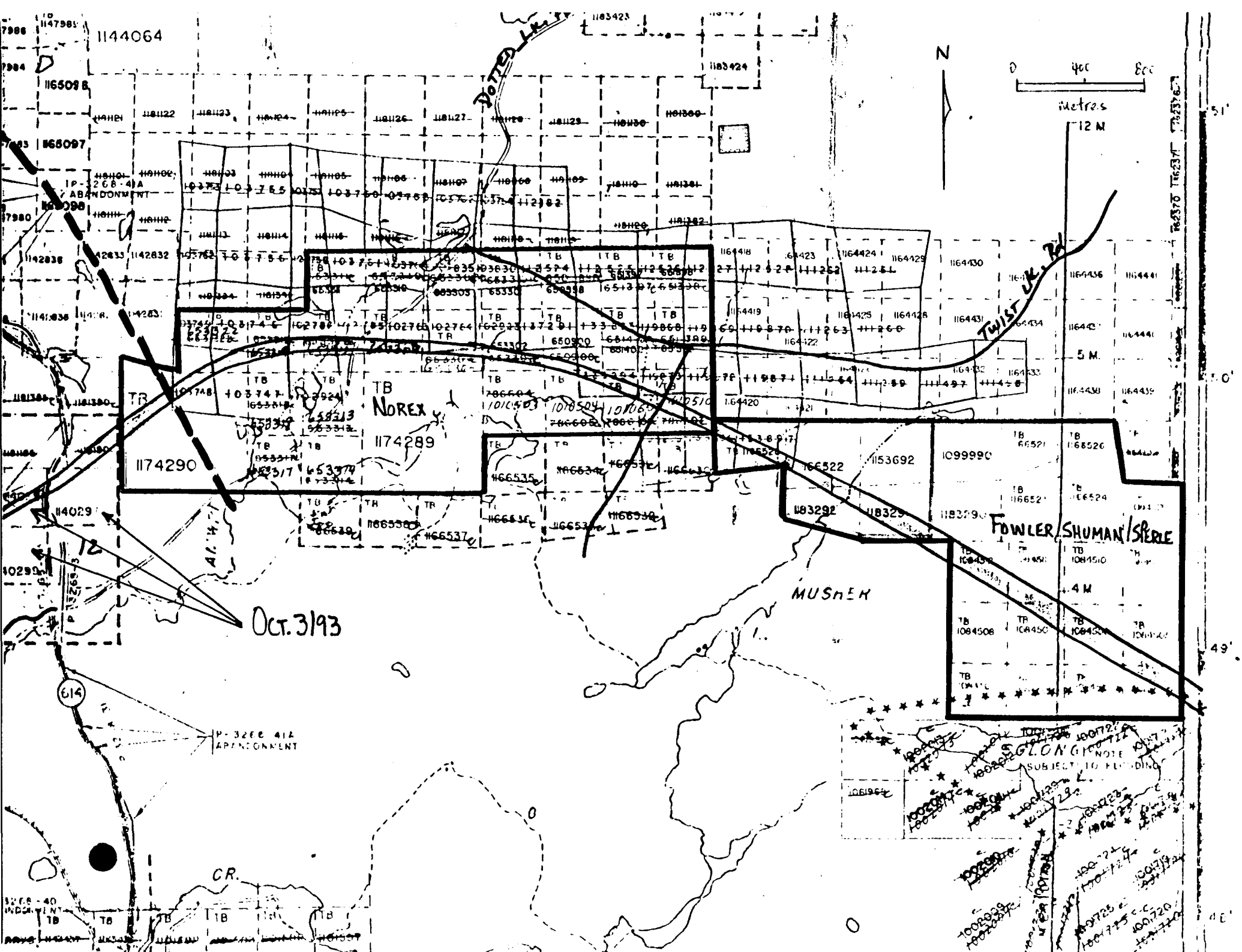


Figure 1 : PROPERTY LOCATION MAP

CLAIMS

The claims are recorded in good standing on Claim Map Sheet G-620, Wabikoba Lake Area of the Thunder Bay Mining Division. The mapping program was performed on the following claims:

TB 1166525
TB 1166522
TB 1153692
TB 1183292
TB 1183291



1144064

1165098

1165097

1165096

1142838

1141838

1181300

1174290

114029

614

OCT. 31/93

P-3266 41A
APPOINTMENT

CR.

DOTTED LK.

N

0 400 800
metres

TWIST LK. Rd.

NOREX

1174289

MUSNEK

FOWLER SHUMAN SPERE

NOTE
SUBJECT TO FLOODING

51'

50'

49'

48'

PREVIOUS EXPLORATION

In August of 1988 Noranda Exploration performed geological and geochemical surveys over the claims covered in this report. Their property was known as the Norman Property.

Newmont Exploration performed a geological and geochemical survey over the adjoining claims to the East in 1992.

REGIONAL GEOLOGY

The Armand Lake Property is located on the North Limb of the Archean Hemlo-Heron Bay greenstone belt.

The Hemlo Area is predominately underlain by granitic rocks with the North Limb being mainly massive and pillow basalt mixed with felsic to intermediate pyroclastic rocks containing interflow sediments.

Low grade regional metamorphism has affected all of the Early Precambrian rocks in the area. Locally pluton contact zones indicate metamorphic conditions corresponding to medium grade.

PROPERTY GEOLOGY

The property consists of a mixed sequence of mafic, felsic to intermediate volcanic and sedimentary rocks intruded by gabbro, quartz feldspar porphyries and the Musher Lake granodiorite pluton.

The mafic volcanics are usually massive with pillow and agglomeratic features observed in some outcrops. Epidote alteration is quite common.

The felsic to intermediate volcanics consist of massive flows (rhyolite and dacite) and crystal tuffs. The quartz eye sericite schist, which is the most interesting unit, can be observed in a couple of locations. This unit probably represents an altered pyroclastic rock (i.e. Crystal Tuff). Although most outcrops seem to suggest this, there are others which appear to be altered felsic intrusives (i.e. Quartz Feldspar Porphyry). This crystal tuff, probably, has been intruded by a couple of generations of felsic intrusives and then altered to the point where the original protolith is indistinguishable. Even, what appears to be, the contacts between the pyroclastics and the felsic intrusives are very gradational and difficult to identify because of the alteration.

The metasedimentary rocks are intercalated argillite/greywacke layers. These sediments are rich in mafic minerals and in most cases altered to a quartz-biotite schist. Local gossanous patches can be observed in various outcrops and can assay anomalous copper and zinc.

The only mafic intrusive body found was a coarse grained unaltered gabbro. This unit appears to parallel stratigraphy.

The felsic intrusive unit is the Musher Lake pluton which dominates the southern section of the property. This pluton has a massive granodioritic texture. The southern portion of the property is also covered with an abundance of granitic boulders which are pegmatitic and granodioritic.

All the rock units on the claim block show a foliation of 110 -140 with steep dips (vertical to 80) to the SSW. Previous mapping suggested a south facing direction.

ALTERATION and MINERALIZATION

The felsic pyroclastic unit (or quartz eye sericite schist) is usually strongly foliated with sericite and silica alteration. Trace amounts of fuchsite (chromium mica) alteration can be found in some outcrops. The pyrite content usually ranges from 1% to trace. Gold assays have returned values up to .086 ounces of Au per ton in grab samples taken by Brian Fowler/Mike Shuman from the quartz eye sericite schist.

This pyroclastic unit has taken the majority of the structural strain on the property as well as the silicification, probably from the intrusion of the Musher Lake pluton. This is the key unit to focus on for further exploration of the alteration and mineralization.

CONCLUSIONS and RECOMMENDATIONS

Although no significant values were obtained from the grab samples during this program, the quartz eye sericite schist still remains a very interesting unit and holds the best potential for hosting economic gold mineralization. The similarities between this unit and those associated with the Hemlo deposit is reason enough to warrant further exploration. There is a lack of outcrop exposure for the quartz eye sericite schist. More outcrop may be found with detailed prospecting or trenching.

REFERENCES

Geological and Geochemical Report for Norman Property, Daphne Peterson, Noranda Exploration Company LTD., 1987

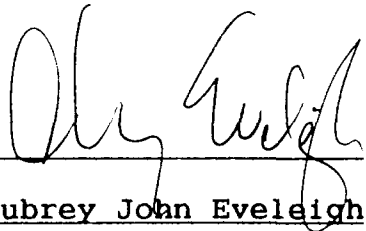
Lithogeochemical Report on the Summers Lake (East) Central Claim Block, Harvey M. Klatt, Newmont Exploration of Canada LTD., 1992.

STATEMENT OF QUALIFICATIONS

I, Aubrey John Eveleigh of Thunder Bay, Ontario do hereby certify that:

1. I am a Geologist residing at 155 Coady Place
2. I am a graduate of Memorial University of Newfoundland (1989) with a Bachelor of Science Degree in Geology
3. I have been involved in mineral exploration since 1985
4. I have not received, directly or indirectly, or expect to receive any interest in the company and its properties

Signature: _____



Name: _____

Aubrey John Eveleigh

Date: _____

Sept. 30/93

APPENDIX 1

SAMPLE RECORD SHEET

<u>Sample #</u>	<u>Description</u>	<u>Au(ppb)</u>	<u>Cu(ppm)</u>	<u>Zn(ppm)</u>
AE-1	Qtz. eye sericite biotite schist	< 5	---	---
AE-2	Qtz. eye sericite schist	< 5	---	---
AE-3	Gossaned argillite sediment	< 5	107	46
AE-4	Mafic Volcanic	< 5	76	84
AE-5	Qtz. biotite sericite schist	8	93	34
AE-6	Mafic Volcanic	7	70	42
AE-7	Hornblende Biotite Schist	18	98	217
AE-8	Gossaned Metasediment	16	148	72
AE-9	Gossaned Metasediment	12	135	189
AE-10	Gossaned Metasediment	6	101	36
AE-11	Gossaned Metasediment	10	84	28

APPENDIX 2



ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

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

Page 1

MR. A. EVELEIGH
103-79 North Court Street
Thunder Bay, Ontario
P7A 4T7

September 22, 1993

Job #934397

Accurassay	Sample #	Customer	Gold ppb	Gold Oz/t
	1	AE-1	<5	<0.001
	2	AE-2	<5	<0.001
	3	AE-3	<5	<0.001
	4	AE-4	<5	<0.001
	5	AE-5	8	<0.001
	6	AE-6	7	<0.001
	7	AE-7	18	<0.001
	8	AE-8	16	<0.001
	9	AE-9	12	<0.001
	10	AE-9A	<5	<0.001
	10	AE-9A Check	5	<0.001
	11	AE-10	6	<0.001
	12	AE-11	10	<0.001

Certified By: *AOBever*



ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

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

Page 1

MR. A. EVELEIGH
103-79 North Court Street
Thunder Bay, Ontario
P7A 4T7

October 1, 1993

Job #934397

Accurassay	Sample #	Customer	Zinc ppm	Copper ppm
	3	AE-3	46	107
	4	AE-4	84	76
	5	AE-5	34	93
	6	AE-6	42	70
	7	AE-7	217	98
	8	AE-8	72	148
	9	AE-9	189	135
	10	AE-10	36	101
	11	AE-11	28	84

Certified By: Chris Bever



42C13SW8802 2.15193 WABIKOBA LAKE

900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

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

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

Our File: 2.15193
Transaction #: W9340.00196

January 12, 1994

Mining Recorder
Ministry of Northern
Development and Mines
435 James Street South
Suite B003
Thunder Bay, Ontario
P7E 6E3

Dear Sir:

**RE: APPROVAL OF ASSESSMENT WORK SUBMITTED FOR GEOLOGY
ON MINING CLAIMS TB1166522 ET AL IN THE WABIKOBA LAKE AREA**

A Notice of Deficiency was not issued on this Report of Work prior to the 90 day deemed approval date and as outlined in subsection 6(5) of the Mining Act Regulations this Report of Work is **deemed approved** as of **JANUARY 3, 1994**.

If you require further information please contact Lucille Jerome at (705) 670-5855.

Yours sincerely

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

LJ/ljs

cc: Resident Geologist
Thunder Bay, Ontario

✓ Assessment Files Library
Toronto, Ontario

Report of Work Conducted After Recording Claim

Transaction Number
W 9340-196

Mining Act

MINING LANDS

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

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

Recorded Holder(s) Mike Shuman / Brian Fowler		Client No. 194121 133247
Address 21 Redden Cres, Hamilton, ON		Telephone No. 509-0455 229-1474
Mining Division THUNDER BAY	Township/Area WABIKORA	M or G Plan No. G 620
Dates Work Performed From: Sept 11, 1993		To: Oct 1, 1993

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	Geol. Mapping
<input type="checkbox"/> Physical Work, Including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ **2649.00 - 2632**

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Clark Geol. Consulting	103-79 N. Court, St., Thunder Bay P7A 4T7
Dave Gliddon / Aubrey Eveleigh	Same as Above

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.

Date Oct 4/93	Recorded Holder or Agent (Signature) [Signature]
-------------------------	------------------------------------------------------------

Certification of Work Report

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

Name and Address of Person Certifying
AUBREY EVELEIGH 103-79 N. COURT ST., THUNDER BAY, ON.

Telephone No. 345-2446	Date Oct 4/93	Certified By (Signature) [Signature]
----------------------------------	-------------------------	------------------------------------------------

or Office Use Only

Total Value Cl. Recorded 2632	Date Recorded Oct 3/93	Mining Recorder [Signature]	Received Stamp
Desired Approval Date	Date Approved		



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des mines

**Statement of Costs
for Assessment Credit**

**État des coûts aux fins
du crédit d'évaluation**

Mining Act/Loi sur les mines

Transaction No./N° de transaction

W 9340-196

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

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Clark Geol. Consult	2193	
			2193
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			2193

2. Indirect Costs/Coûts indirects

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

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Touche	255.-	
			255.-
Food and Lodging Nourriture et hébergement	McV. & Food	200.96	201.-
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			456.-
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			439
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)			2649.-
Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			2632

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

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

Billing Discounts

Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.

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

Total Value of Assessment Credit	Total Assessment Claimed
	× 0.50 =

Remises pour dépôt

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

Valeur totale du crédit d'évaluation	Évaluation totale demandée
	× 0,50 =

Certification Verifying Statement of Costs

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

at as AGENT I am authorized

to make this certification

Attestation de l'état des coûts

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

Et qu'à titre de AGENT je suis autorisé

à faire cette attestation.

Problem Page

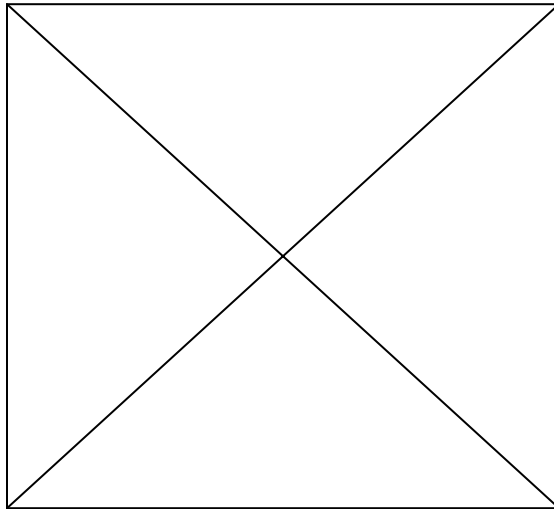
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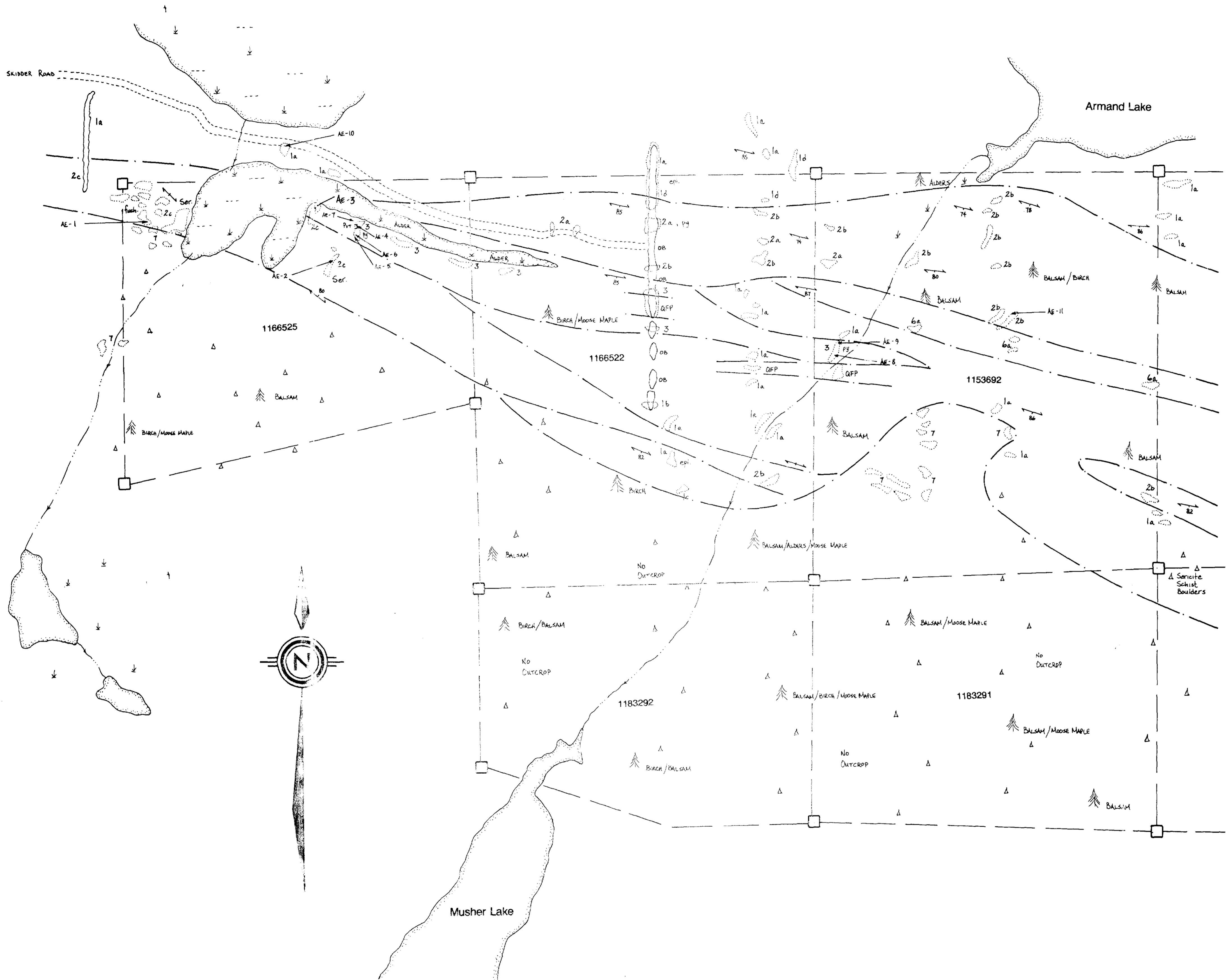
We apologize for the inconvenience.

Problème de conversion de page

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

Nous regrettons tout inconvénient occasionné par ce problème.





LEGEND

- 1** MAFIC VOLCANICS
 - a) massive
 - b) pillowed
 - c) agglomerate
 - d) tuffaceous
 - 2** FELSIC to INTERMEDIATE VOLCANICS
 - a) massive (rhyolite/dacite)
 - b) tuffaceous (crystal, lapilli)
 - c) qtz. eye bearing schist
 - 3** METASEDIMENTS
 - 6** MAFIC INTRUSIVE
 - a) gabbro
 - 7** FELSIC INTRUSIVE
- QFP Quartz Feldspar Porphyry

SYMBOLS

- STRIKE & DIP
- BOULDERS (GRANITE)
- SWAMP
- WATER
- SAMPLE LOCATION
- PYRITE
- EPIDOTE
- GEOLOGICAL CONTACT
- OUTCROP
- OVERBURDEN
- TRENCH
- FUCHSITE
- SERICITE
- CLAIM POST



ARMAND LAKE PROPERTY

BRIAN FOWLER/MIKE SHUMAN

GEOLOGY	SCALE: 1:2500
DATE: September, 1993	NTS: 42 C 13

