

42A02NE9950 2.15092 ROBERTSON

010

**2.15092**

**REPORT ON GROUND MAGNETOMETER  
AND VLF-EM SURVEY,  
ROBERTSON TOWNSHIP PROJECT**

on behalf of

**FALCONBRIDGE LIMITED**

**Survey by: TechTerrex Inc.  
Oakville, Ontario  
October, 1992**

**Report by: Paterson, Grant & Watson Limited  
Toronto, Ontario  
December, 1992**

## TABLE OF CONTENTS

	<b>Page</b>
<b>1. INTRODUCTION</b>	<b>1</b>
<b>2. GEOLOGY</b>	<b>1</b>
<b>3. GEOPHYSICS</b>	<b>2</b>
<b>3.1 AIRBORNE GEOPHYSICS</b>	<b>2</b>
<b>3.2 GROUND GEOPHYSICS</b>	<b>3</b>
<b>4. INTERPRETATION</b>	<b>5</b>
<b>5. CONCLUSIONS AND RECOMMENDATIONS</b>	<b>6</b>



010C

**TABLE 1     Robertson Township Project Claim Numbers**

### LIST OF FIGURES

- FIGURE 1     Property Location Map**  
**FIGURE 2     Claim Map, Robertson Property**  
**FIGURE 3     Geology Map, Robertson Property**

### LIST OF MAPS

- Map Number**
- RTP-01     West Grid: Magnetic Postings and Profiles**  
**RTP-02     West Grid: Magnetic Total Field Contours**  
**RTP-03     West Grid: VLF-EM Posting and Profiles**  
**RTP-04     West Grid: VLF-EM Fraser Filter Contours**  
**RTP-05     East Grid: Magnetic Postings and Profiles**  
**RTP-06     East Grid: Magnetic Total Field Contours**  
**RTP-07     East Grid: VLF-EM Posting and Profiles**  
**RTP-08     East Grid: VLF-EM Fraser Filter Profiles**  
**RTP-09     West Grid: Geophysical Interpretation**  
**RTP-10     East Grid: Geophysical Interpretation**  
**RTP-11     West Grid: Topographic Plan**  
**RTP-12     East Grid: Topographic Plan**

## 1. INTRODUCTION

In October, 1992, a ground magnetometer and VLF-EM survey was conducted in Robertson Township, Ontario for Falconbridge Ltd.

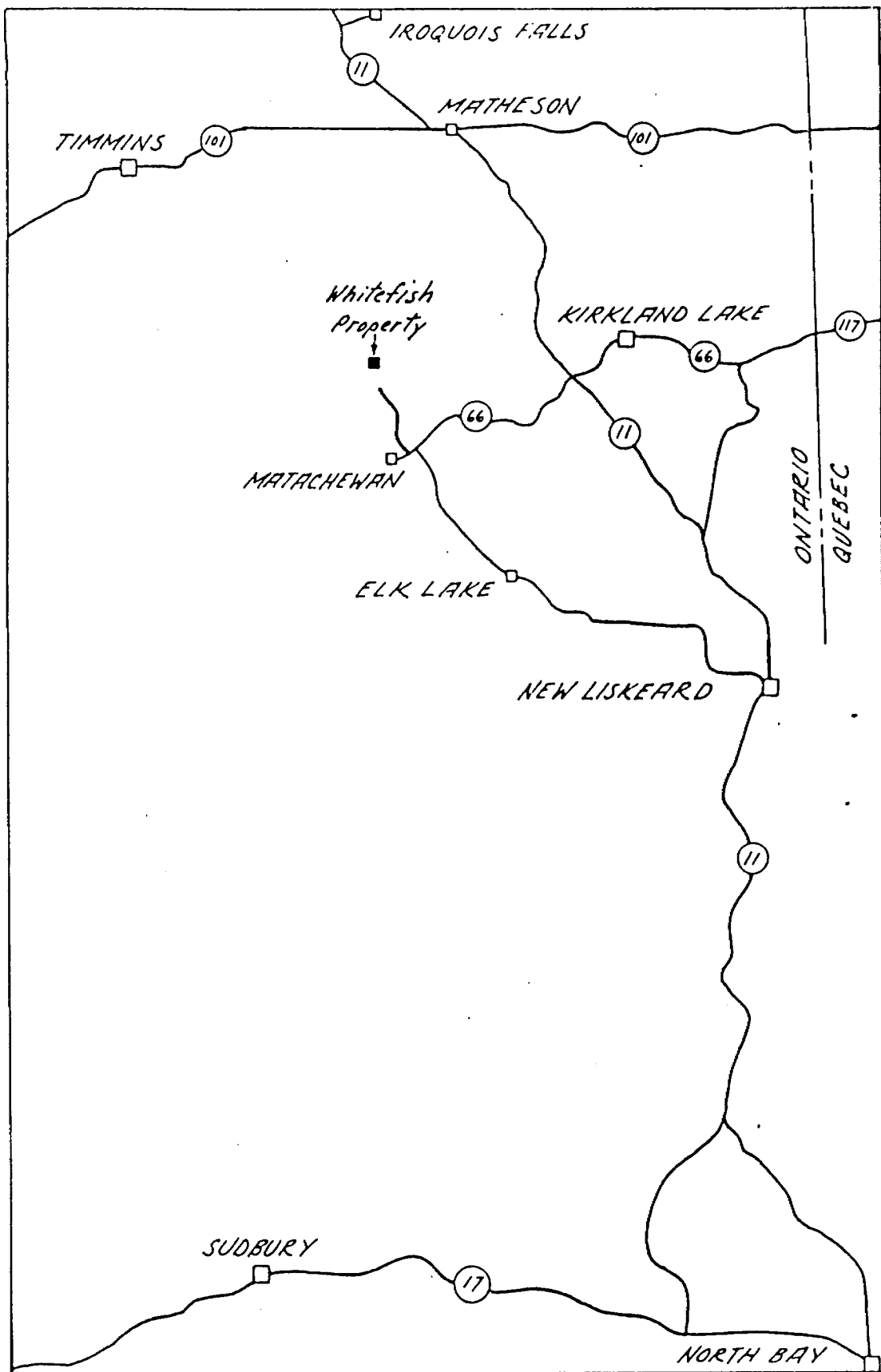
Claimholder: Falconbridge Ltd.  
P.O. Box 1140  
571 Moneta Ave.  
Timmins, Ontario  
P5N 7H9

As shown in Figure 1, the Robertson Township Project area (also known as the Whitefish Property) is located in the Larder Lake Mining Division, roughly 20 km north of Matachewan. The property may be accessed north from Highway 66 to the Matachewan Indian Reserve, then along a forest access road. The location of the east and west geophysical grids, relative to the local topography, are given in Maps RTP-10 and RTP-12.

Table 1 provides a list of claims upon which the geophysical surveys were performed. The claim map in Figure 2 shows all of the claims within the property. Some claims to the north were not covered by the geophysical survey.

## 2. GEOLOGY

Figure 3 shows the mapped or interpreted geology for the property and its immediate surroundings. The country rock in the area is composed of calc-alkalic intermediate metavolcanic flows, intruded by granitoid batholiths, all of Precambrian age.



QUEENSTON MINING INC.  
 PROPERTY LOCATION MAP  
 WHITEFISH PROPERTY  
 ROBERTSON TWP.  
 SCALE - 1" = 20 mi JAN./91

**TABLE 1 ROBERTSON TOWNSHIP PROJECT CLAIM NUMBERS**

983163	1111824	1152921
983164	1111825	1152922
983165	1111827	1152959
983166	1111828	1152960
983167	1111838	
983168	1111839	1168333
983169	1111840	1168376
983170	1111841	1168377
	1111842	
1014348	1111843	1168405
	1111844	
1073668	1111845	1171742
1073669	1111862	1171743
1073670	1111863	1171744
1073717	1111864	1171745
1073721	1111865	1171746
	1111866	1171747
1111061	1111867	1171750
	1111868	
1111803	1111869	1171923
1111804	1111879	1171924
1111805	1111880	1171925
1111806	1111881	1171926
1111807	1111882	1171927
1111808	1111883	1171928
1111809	1111884	1171929
1111810	1111885	1171930
1111813	1111886	1171931
1111814		1171932
1111815	1145901	1171933
1111816	1145902	1171934
1111817		1171936
1111818	1152915	1171983
1111819	1152916	1171984
1111820	1152917	
1111821	1152918	
1111822	1152919	
1111823	1152920	



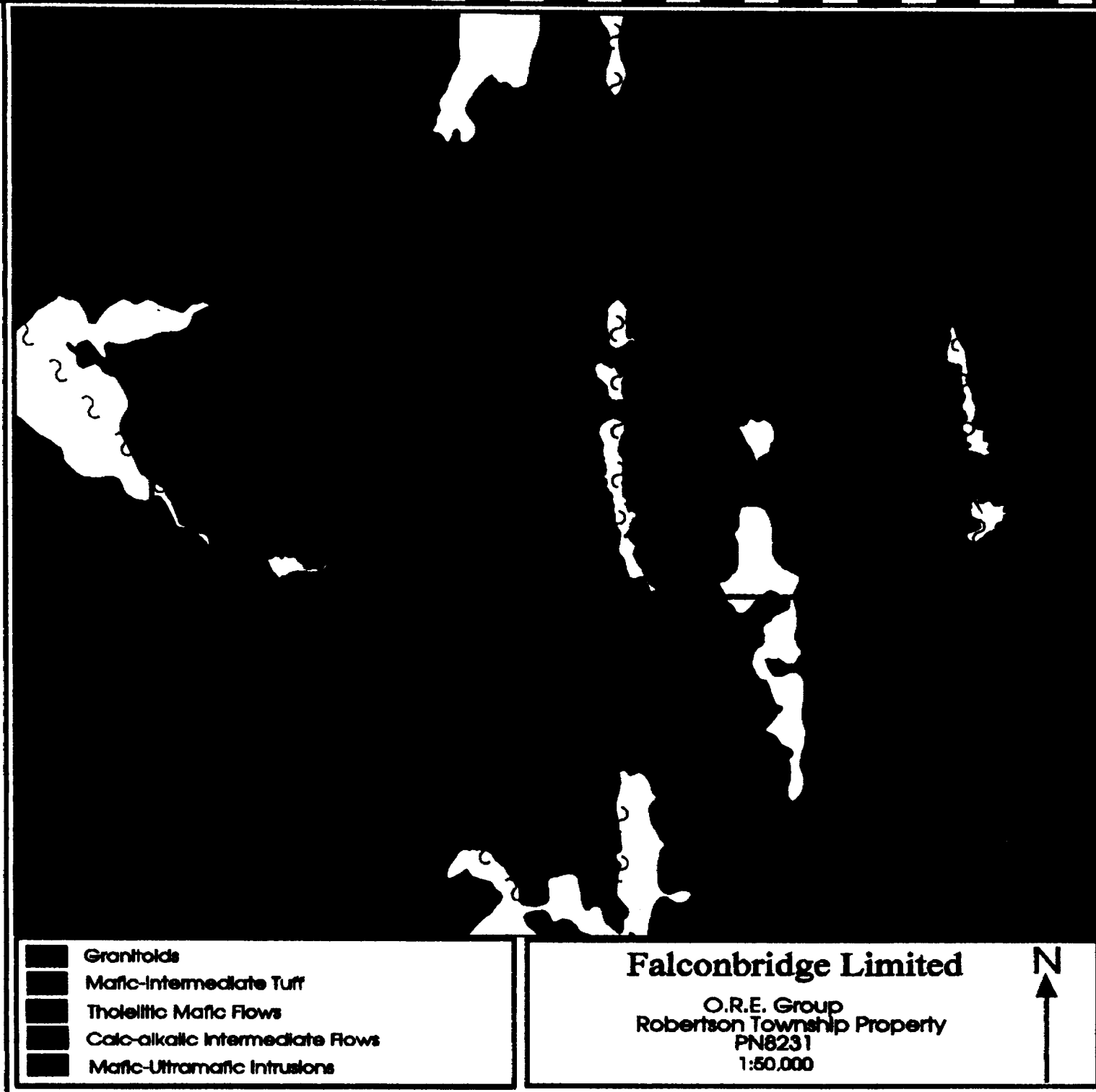


FIG. 3

An east-west striking band of tholeiitic mafic flows traverse the center of the property. This band, in turn, is intruded by east-west striking mafic-ultramafic rocks. A narrow band (700 m along strike) of mafic-intermediate tuff (Opap Lake Zone) is located at the southern boundary of the tholeiitic and calc-alkalic flows. North to northwest striking faults show sinistral movement of 750 m to 1950 m. Copper showings have been located in the mafic-ultramafic band southeast of Whitefish Lake.

### **3. GEOPHYSICS**

#### **3.1 Airborne Geophysics**

In June, 1991, Geoterrex Ltd. flew a GEOTEM survey for Queenston Mining Inc. The rectangular block, measuring roughly 74 km x 63 km, covered the entire claim group. North-south oriented flightlines were flown 150 m apart, with east-west tielines every 1000 m. The survey altitude was nominally 120 m. The results were presented on four 1:15,000 scale maps as follows:

- 1) Total magnetic field contours;
- 2) Calculated magnetic vertical gradient contours;
- 3) Electromagnetic anomalies; and
- 4) Qualitative interpretation.



The magnetic maps show strong east-west linear anomalies over the mafic-ultramafic intrusions and the surrounding tholeiitic mafic flows. The remaining rocks are much less magnetic. North to north-northwest-striking faults are quite prominent, some of which appear to bound dikes.

Seven GEOTEM conductors were interpreted. One of these, in the vicinity of the Opap Lake Zone, shows anomalies of up to eight channels. The remaining conductors have no more than two-channel anomalies.

### 3.2 Ground Geophysics

A ground magnetic and VLF-EM survey was carried out over the project area by Techterrex Inc., between September 30, 1992 and October 15, 1992. The personnel working on the survey were:

Michael Wilson  
199 Sheraton Court  
Oakville, Ontario  
L6L 5N3

Hugh Ainsworth  
R.R. # 5  
Lindsay, Ontario  
K9V 4R5

Harry Claridge  
R.R. # 2  
Bracebridge, Ontario  
P1L 1W9

The data were measured at a station interval of 20 m along north-south lines, nominally spaced 100 m apart, and east-west tielines spaced 500 m apart. The area was broken into an east and west grid. The true locations of the lines were surveyed accurately and are reflected in the base and geophysical maps. No survey work was carried out over the rivers or lakes. A total of 157 line-kilometers were surveyed.

The magnetic survey was carried out using an EDA OMNI Plus Field Magnetometer. A base station was located at 4855 mE, 2990 mN, with an EDA Omni IV Base Magnetometer sampling the magnetic field at 15 second intervals. This data was used to correct the field data for diurnal. The magnetic data are presented on Maps RTP-01 and RTP-05 as postings and profiles, and on Maps RTP-02 and RTP-06 as total field contours.

The VLF-EM data was measured using an EDA Omni Plus VLF Receiver. The data acquired on the north-south survey lines were taken facing north, using the 24.0 kHz Cutler, Maine transmitter station. The data acquired on the east-west tie lines were taken facing east, using the 21.4 kHz Annapolis, Maryland transmitter station. The measured in-phase and quadrature are presented as postings and profiles on Maps RTP-03 and RTP-07. A Fraser filter was applied to the inphase data to transform the cross-overs over potential conductors into positive anomalies. These are presented in contour form on Maps RTP-04 and RTP-08.

#### 4. INTERPRETATION

A qualitative interpretation of the ground magnetic data has been prepared, outlining five district units, as follows:

Unit 1: broad magnetic high, correlates with granitoids (extreme southwest corner of area only).

Unit 2: outlines all areas of magnetic lows, from broad, low amplitude to narrow, high amplitude, striking mainly east-west. It maps the "country rock" in the area, felsic to intermediate metavolcanic rocks. The more felsic portions of this unit are concentrated north of 2300N in the west grid.

Unit 3: outlines the weaker magnetic highs following mainly east-west striking bands of 50 m to 150 m width. This unit indicates intermediate to mafic metavolcanic flows.

Unit 4: outlines the strongest, positive magnetic anomalies, over fairly continuous, east-west striking bands of 100 m to 200 m width. This unit correlates with mafic to ultramafic intrusions or metavolcanic flows.

Unit 5: delineates north-south striking diabase dikes, located mainly in the east half of the east grid.

Two main families of faults have been interpreted in the area. One set strikes northwest to north-northwest. The second set strikes north to northeast. The major north-striking faults in the area were not mapped by the ground geophysics per se as they underlie lakes.

VLF conductors were mapped, mainly by joining positive peaks in the Fraser filter data. Many of these conductors show truncations or offsets near faults interpreted from the magnetics, suggesting that they are derived from a bedrock rather than overburden source. Most of these conductors follow an east-west strike, parallel to the geology. In the northwest part of the west grid, the conductors follow a northwest strike, parallel to the major faulting in that area. They may delineate conductive material in the faults themselves.

Most of these conductors fall within or adjacent to magnetic unit 4, and to a lesser extent, unit 3. Thus, it would appear that the mafic to ultramafic rocks do host some fairly conductive material. The Opat Lake Zone, although not entirely defined due to the lake problem, is intersected by a conductor that carries along strike to the east for 2200 m, along the northern boundary of magnetic unit 3.

## **5. CONCLUSIONS AND RECOMMENDATIONS**

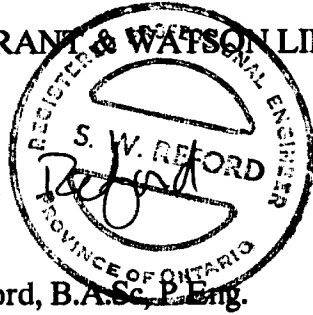
The ground geophysical survey has further delineated the mafic and ultramafic rocks in the property area, many of which are associated with VLF conductors. Prior to undertaking any drilling programme, the following is recommended:

- 1) undertake a horizontal loop electromagnetic and/or induced polarization survey in the most prospective areas (magnetic units 3 and 4, with associated conductors), depending on the exploration model (i.e. massive and/or disseminated sulphides);
- 2) fill in the holes in the magnetic data over these prospective areas when the lakes are frozen over, and prepare a colour image of the calculated vertical gradient to further refine the magnetic interpretation; and
- 3) conduct geochemical sampling and geophysical modelling to rank geophysical targets located through the above work.

Respectfully submitted,

PATERSON, GRANT & WATSON LIMITED

*Stephen*

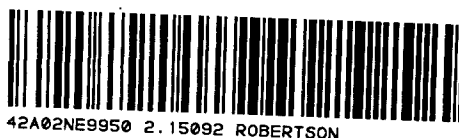


Stephen W. Reford, B.A.Sc., P.Eng.

Senior Geophysicist

## STATEMENT OF QUALIFICATIONS

The author of this report is Mr. Stephen Reford, who resides at 40 Thome Crescent, Toronto, Ontario, M6H 2S5. Mr. Reford graduated from the University of Toronto in 1981, with a Bachelor of Applied Science in the Geophysics Option of Engineering Science. Since that time, he has been employed by Paterson, Grant & Watson Limited, a geophysical consulting company established in 1973. Mr. Reford is now a senior geophysicist and partner in the company. He is a Professional Engineer, licensed by the Association of Professional Engineers of Ontario (#38458063).



42A02NE9950 2.15092 ROBERTSON

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

September 22, 1993

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

Our File: 2.15092  
Transaction #: W9380.00120

Mining Recorder  
Ministry Of Northern  
Development and Mines  
4 Government Road East  
Kirkland Lake, Ontario  
P2N 1A2

Dear Sir/Madam:

**Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS  
L983163 ET AL IN ROBERTSON TOWNSHIP**

---

The assessment work credits for Geophysics, Section 14 of the Mining Act Regulations, have been approved as outlined on the original submission.

The approval date is September 2, 1993.

If you have any questions regarding this correspondence, 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/dm

cc: Resident Geologist  
Kirkland Lake, Ontario

Assessment Files Library ✓  
Toronto, Ontario



Ministry of  
Northern Development  
Mines

**Geoscience Assessors**

**Report of Work Conducted After Recording Claim**  
Mining Act

Transaction Number  
**W9380.00120**

Persons: 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.

**2.15092**

- 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) <b>Falconbridge Limited</b>		Client No. <b>130679</b>
Address <b>Suite 1200, 95 Wellington St. W. Toronto, ON M5J 2V4</b>		Telephone No. <b>(416) 956-5700</b>
Mining Division <b>Larder Lake</b>	Township/Area <b>Robertson</b>	M or G Plan No. <b>M-310</b>
Dates Work Performed From: <b>Aug. 1992</b>		To: <b>Dec. 25 1992</b>

**Work Performed (Check One Work Group Only)**

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	Ground MAG, VLF - Grid Cutting
<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	

**RECEIVED**  
JUL 05 1993  
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs \$ ~~49,101~~ ~~49,002~~ **49,101**

**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
TechTerrex Inc.	199 Sheraton Crt., Oakville, ON L6L 5N3
Patterson, Grand & Watson Limited	Stephen Reford, c/o P.G.W. Limited (Report Author) 204 Richmond St. W. Toronto, ON M5V 1V6

(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 <b>11/06/93</b>	Recorded Holder or Agent (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 <b>Damien Duff, c/o Falconbridge Limited, P.O. Box 1140, 571 Moneta Ave, Timmins, ON P4N 7H9</b>		
Telephone No. <b>(705) 267-1188</b>	Date <b>11/06/93</b>	Certified By (Signature) 

**For Office Use Only**

Total Value Cr. Recorded <b>\$36,481</b> <b>\$12,620</b> <b>(RESERVE)</b>	Date Recorded <b>JUNE 15, 1993</b>	ACTING Mining Recorder <b>Larry Stoll</b>	Received <b>RECEIVED</b> <b>LARDER LAKE</b> <b>MINING DIVISION</b> <b>JUN 15 1993</b> TIME <b>10:10</b>
	Deemed Approval Date <b>SEPT 13, 1993</b>	Date Approved	
	Date Notice for Amendments Sent		



Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
<b>2.15092</b>	L983163 ✓	1
	L983164 ✓	1
	L983165 ✓	1
	L983166 ✓	1
	L983167 ✓	1
	L983168 ✓	1
	L983169 ✓	1
	L983170 ✓	1
	L1014348 ✓	1
	L1073668 ✓	1
	L1073669 ✓	1
	L1073670 ✓	1
L1073717 ✓	1	
L1073721 ✓	1	
14	Total Number of Claims	

Value of Assessment Work Done on this Claim	Value Applied to this Claim
741	400
484	400
643	400
629	400
548	400
441	400
467	400
619	400
634	400
610	400
484	400
448	400
513	400
472	400
7,733	5,600
Total Value Work Done	Total Value Work Applied

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
341	
	84
243	
229	
	148
	41
	67
219	
234	
210	
	84
	48
	113
	72
1,476	657
Total Assigned From	Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

1.  Credits are to be cut back starting with the claim listed last, working backwards.
2.  Credits are to be cut back equally over all claims contained in this report of work.
3.  Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

(certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.)

Signature	Date
	11/06/93

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
E. 15092	L1111061 ✓	1
	L1111803 ✓	1
	L1111804 ✓	1
	L1111805 ✓	1
	L1111806 ✓	1
	L1111807 ✓	1
	L1111808 ✓	1
	L1111809 ✓	1
	L1111810 ✓	1
	L1111813 ✓	1
	L1111814 ✓	1
	L1111815 ✓	1
	L1111816 ✓	1
	L1111817 ✓	1
	L1111818 ✓	1
	L1111819 ✓	1
	L1111820 ✓	1
17		
Total Number of Claims		

Value of Assessment Work Done on this Claim	Value Applied to this Claim
603	400
674	400
693	400
438	400
436	400
374	400
701	400
229	400
377	400
289	400
512	400
653	400
603	400
377	400
663	400
868	400
414	400
8,904 ✓	6,800
Total Value Work Done	Total Value Work Applied

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	203
	274
	293
	38
	36
	-
	301
	-
	-
	-
	112
	253
	203
	-
	263
	468
	14
Total Assigned From	Total Reserve
	2,458

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

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Verify that the recorded holder had a beneficial interest in the patented leased land at the time the work was performed.

Signature

Date

11/06/00

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
<b>2. 15092</b>	L1111821 ✓	1
	L1111822 ✓	1
	L1111823 ✓	1
	L1111824 ✓	1
	L1111825 ✓	1
	L1111827 ✓	1
	L1111828 ✓	1
	L1111838 ✓	1
	L1111839 ✓	1
	L1111840 ✓	1
	L1111841 ✓	1
	L1111842 ✓	1
	L1111843 ✓	1
	L1111844 ✓	1
	L1111845 ✓	1
	L1111862 ✓	1
	L1111863 ✓	1
17		

Total Number of Claims

Value of Assessment Work Done on this Claim	Value Applied to this Claim
529	400
894	400
758	400
562	400
610	400
463	400
405	400
507	400
420	400
605	400
605	400
884	400
803	400
1,142	400
410	400
198	400
631	400
10,426	6,800

Total Value Work Done

Total Value Work Applied

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	129
	494
	358
	162
	210
	63
	5
	107
	20
	205
	205
	484
	403
	742
	10
	=
	231
	3,828

Total Assigned From

Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

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Example 3: Verify that the recorded holder had a beneficial interest in the patented leased land at the time the work was performed.

Signature

Date

11/06/93

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
2.15092	L1171745 ✓	1
	L1171746 ✓	1
	L1171747 ✓	1
	L1171750 ✓	1
	L1171923 ✓	1
	L1171924 ✓	1
	L1171925 ✓	1
	L1171926 ✓	1
	L1171927 ✓	1
	L1171928 ✓	1
	L1171929 ✓	1
	L1171930 ✓	1
	L1171931 ✓	1
	L1171932 ✓	1
	L1171933 ✓	1
	L1171934 ✓	1
	L1171936 ✓	1
17		

Total Number of Claims

Value of Assessment Work Done on this Claim	Value Applied to this Claim
693	400
887	400
369	369
563	400
667	400
858	400
948	400
779	400
639	400
743	400
836	400
722	400
384	400
445	400
563	400
383	383
<del>400</del> 441	400
10,820 <del>10,919</del> 10,920	6752

Total Value Work Done

Total Value Work Applied

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	293
	487
	-
	163
	267
	458
	548
	379
	239
	343
	436
	322
	-
33	12
	163
	-
41	
74	4,110

Total Assigned From

Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

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certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature

Date

11/06/02



Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
2.15092	L1152915	1
	L1152916 ✓	1
	L1152917 ✓	1
	L1152918 ✓	1
	L1152919 ✓	1
	L1152920 ✓	1
	L1152921 ✓	1
	L1152922 ✓	1
	L1168333 ✓	1
	L1168376 ✓	1
	L1168377 ✓	1
	L1168405 ✓	1
L1171742 ✓	1	
L1171743 ✓	1	
L1171744 ✓	1	
14		

Total Number of Claims

Value of Assessment Work Done on this Claim	Value Applied to this Claim
367	367
520	400
603	400
0	0
171	171
588	400
817	400
455	400
417	400
0	0
0	0
651	400
136	136
<del>536</del> 535	400
255	255
<del>646</del> 5,515 5515	4,129

Total Value Work Done

Total Value Work Applied

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	-
	120
203	
	-
	-
	188
417	
	55
	17
	-
	-
23	228
	-
	<del>136</del> 135
	-
643	744

Total Assigned From

Total Reserve

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In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

Verify that the recorded holder had a beneficial interest in the patented leased land at the time the work was performed.

Signature

Date

11/06/93



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

W9380.00120

2.15092

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) 870-7264.

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<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 870-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain	2,500	2,500
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type Grid Cutting	27,065	
	MAG/VLF	17,586	
			44,651
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			47,151

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 Truck Lease	700	700
	Gas	250	250
			950
Food and Lodging Nourriture et hébergement		1,000	1,000
Mobilization and Demobilization Mobilisation et démoblisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			1,950
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			49,101

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

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

Filing Discounts

1. Work filed within two years of completion, is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	× 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 on the accompanying Report of Work form.

that as  I am authorized (Record Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

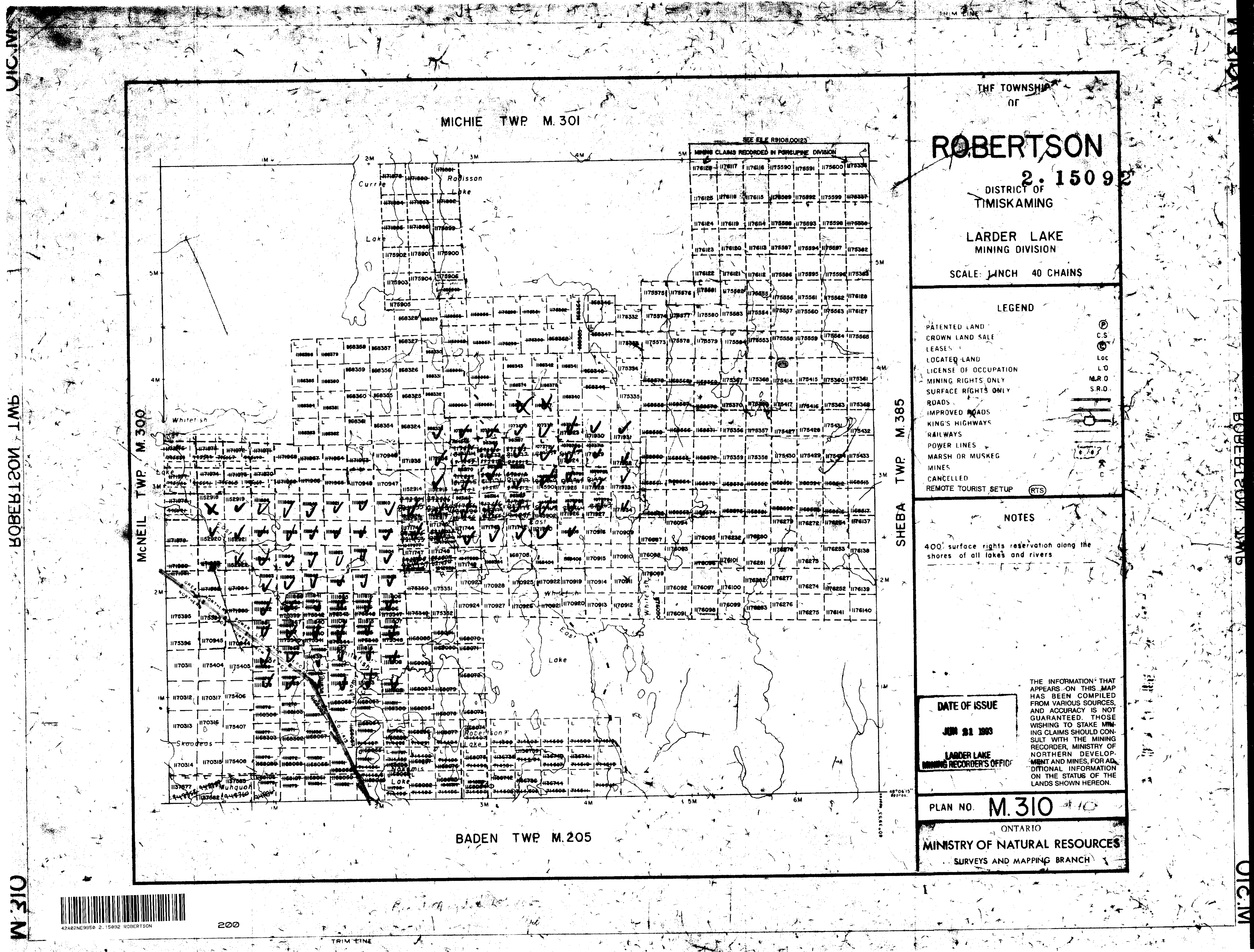
J'atteste par la présente: que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de  je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature 	Date 11/06/93
--	---------------





MICHIE TWP. M. 301

THE TOWNSHIP OF  
**ROBERTSON**  
2. 150 92  
DISTRICT OF  
TIMISKAMING  
LARDER LAKE  
MINING DIVISION

SCALE: 1 INCH = 40 CHAINS

LEGEND

- PATENTED LAND P
- CROWN LAND SALE C.S.
- LEASES L
- LOCATED LAND LOC
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS [Symbol]
- IMPROVED ROADS [Symbol]
- KING'S HIGHWAYS [Symbol]
- RAILWAYS [Symbol]
- POWER LINES [Symbol]
- MARSH OR MUSKEG [Symbol]
- MINES [Symbol]
- CANCELLED [Symbol]
- REMOTE TOURIST SETUP RTS

NOTES

400' surface rights reservation along the shores of all lakes and rivers

DATE OF ISSUE

JUN 21 1993

LARDER LAKE  
MINING RECORDER'S OFFICE

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.

PLAN NO. **M. 310**

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH

BADEN TWP. M. 205

ROBERTSON TWP.

ROBERTSON TWP.

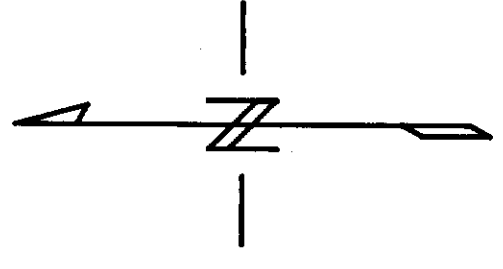
M. 310

M. 310



42402NE950 2. 15092 ROBERTSON





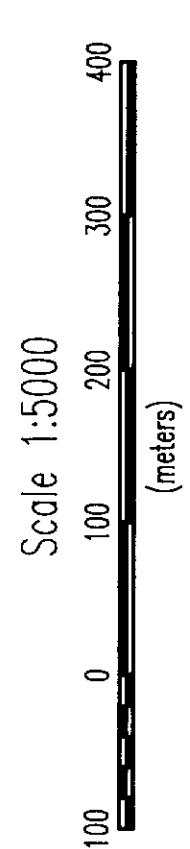
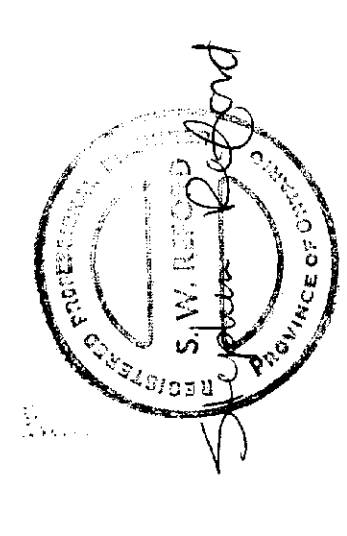
Declination: 12° W

**LEGEND**

Scale: 1:5000  
Profile Scale: 500 m/cm  
Profile Base Level: 58,200 m

**SURVEY SPECIFICATIONS**

Instruments: EDM Omni IV Base Magnetometer  
EDM Omni Plus Field Magnetometer  
Base Station Location: 4855m E, 2980m N  
Base Station Value: 58,145 m  
Base Station Sample Interval: 15 sec.

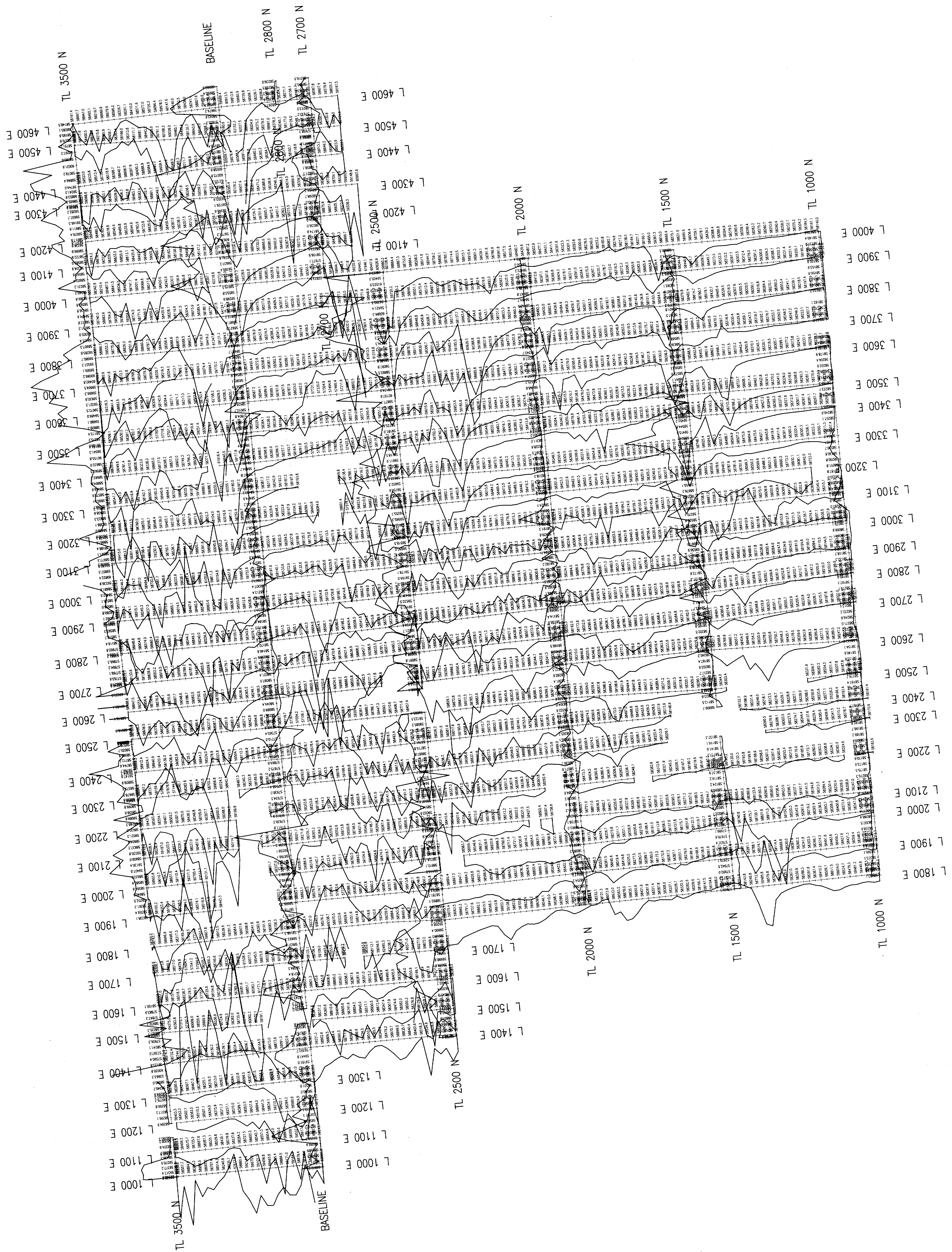


**2-15092**

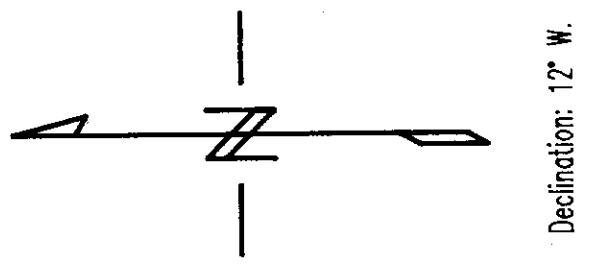
**FALCONBRIDGE LTD.**  
Robertson Township Project

Whitefish West Grid  
**GROUND MAGNETOMETER SURVEY**  
Total Field Postings & Profiles  
Robertson Township  
Larder Lake Mining Division  
Ontario

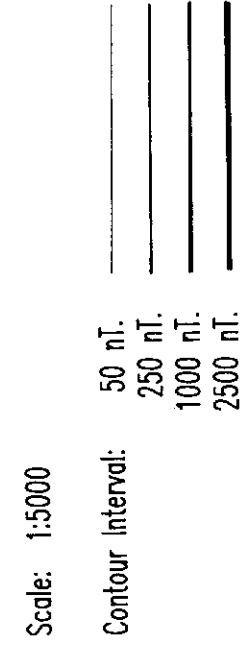
MIS: 42 A/2 Map No. RIP-01  
Survey & Preparation:  
Whitefish West  
Orebody Inc.  
Orebody Inc.  
October 1997





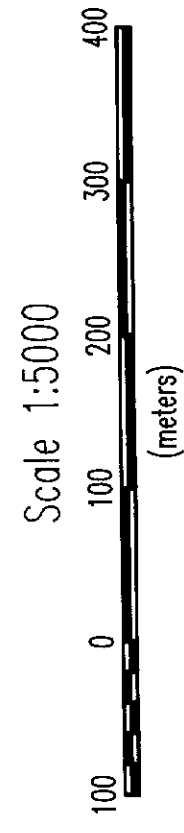


LEGEND



SURVEY SPECIFICATIONS

Instruments: EDM, Chert IV, Base Magnetometer  
EDA, Chert Plus, Field Magnetometer  
Base Station Location: 4855m E, 2950m N  
Base Station Value: 581.45 m.  
Base Station Sample Interval: 15 sec.



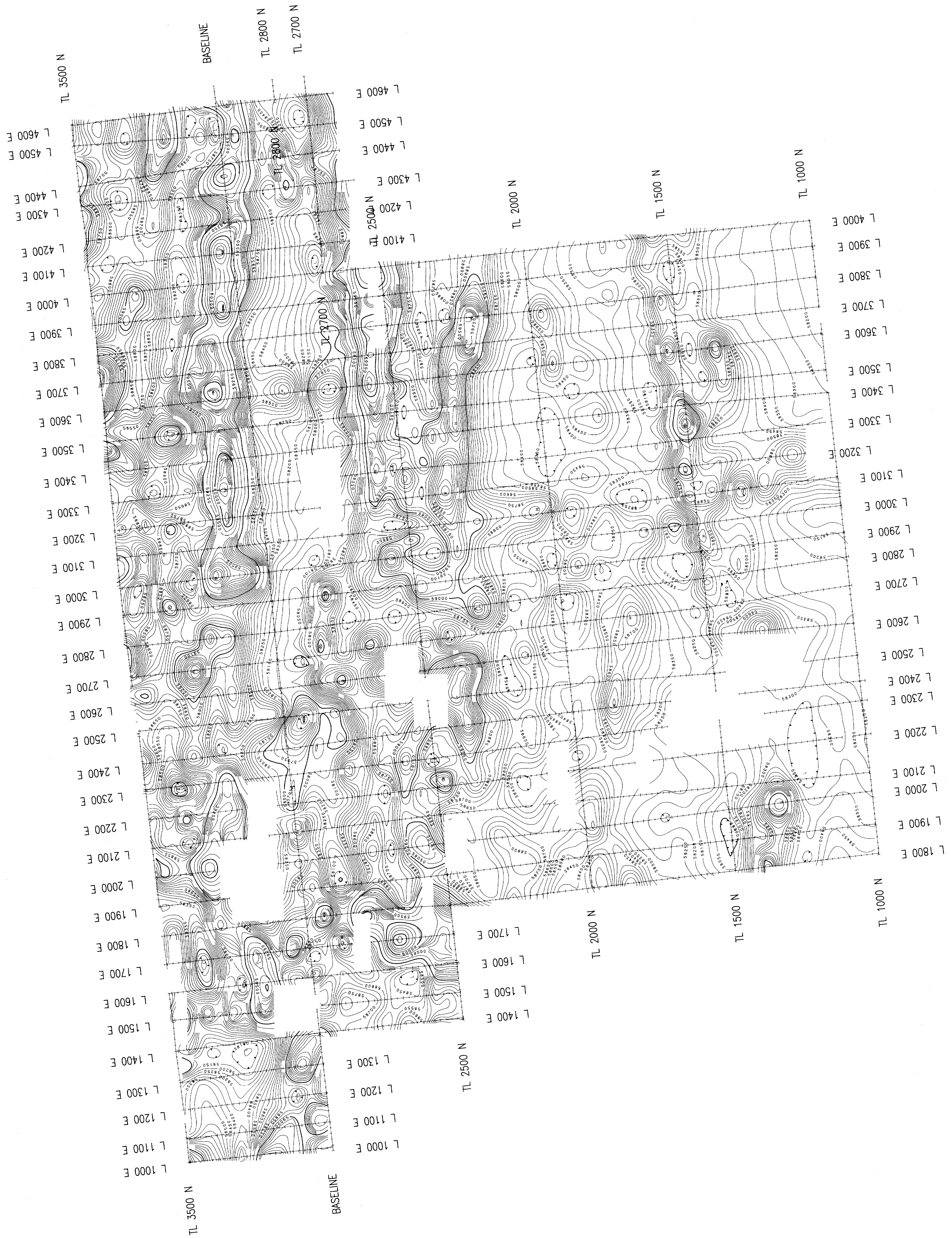
Scale 1:5000  
(meters)

**2. 15092**

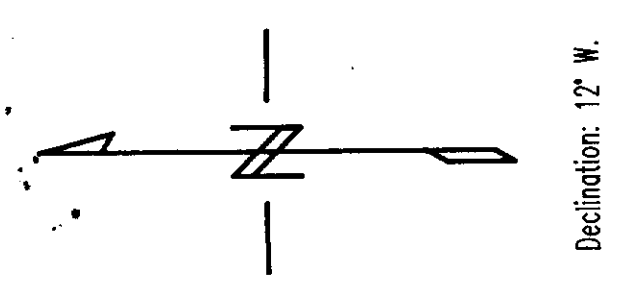
FALCONBRIDGE LTD.  
Robertson Township Project

Whitefish West Grid  
GROUND MAGNETOMETER SURVEY  
Total Field Contours  
Robertson Township  
Larder Lake Mining Division  
Ontario

W.S. 42 A/2 Map No. RTP-02  
Survey & Presentation:  
Techline Inc.  
Oshawa, Ontario  
October 1997





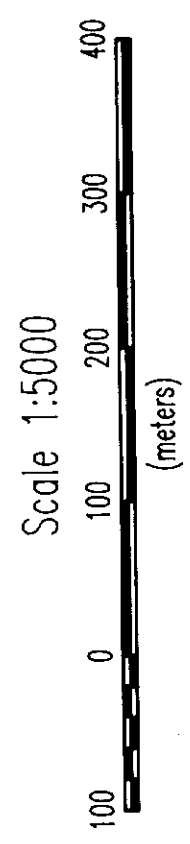


LEGEND

- Scale: 1:5000
- Profile Scale: 20 %/cm
- In-Phase Profiles:
- Quadrature Profiles:
- Plotting configuration:

SURVEY SPECIFICATIONS

Instrument: EDM Instruments Omni Plus M5 receiver  
 Transmitter Station: Ouler, Maine  
 Transmitter Frequency: 24.0 MHz  
 Initialization Direction: N-S Lines: Facing North  
 E-W Lines: Facing East  
 NOTE: Rise & Fall-lines surveyed with Anemograph, M.I.  
 Frequency: 21.4 kHz.

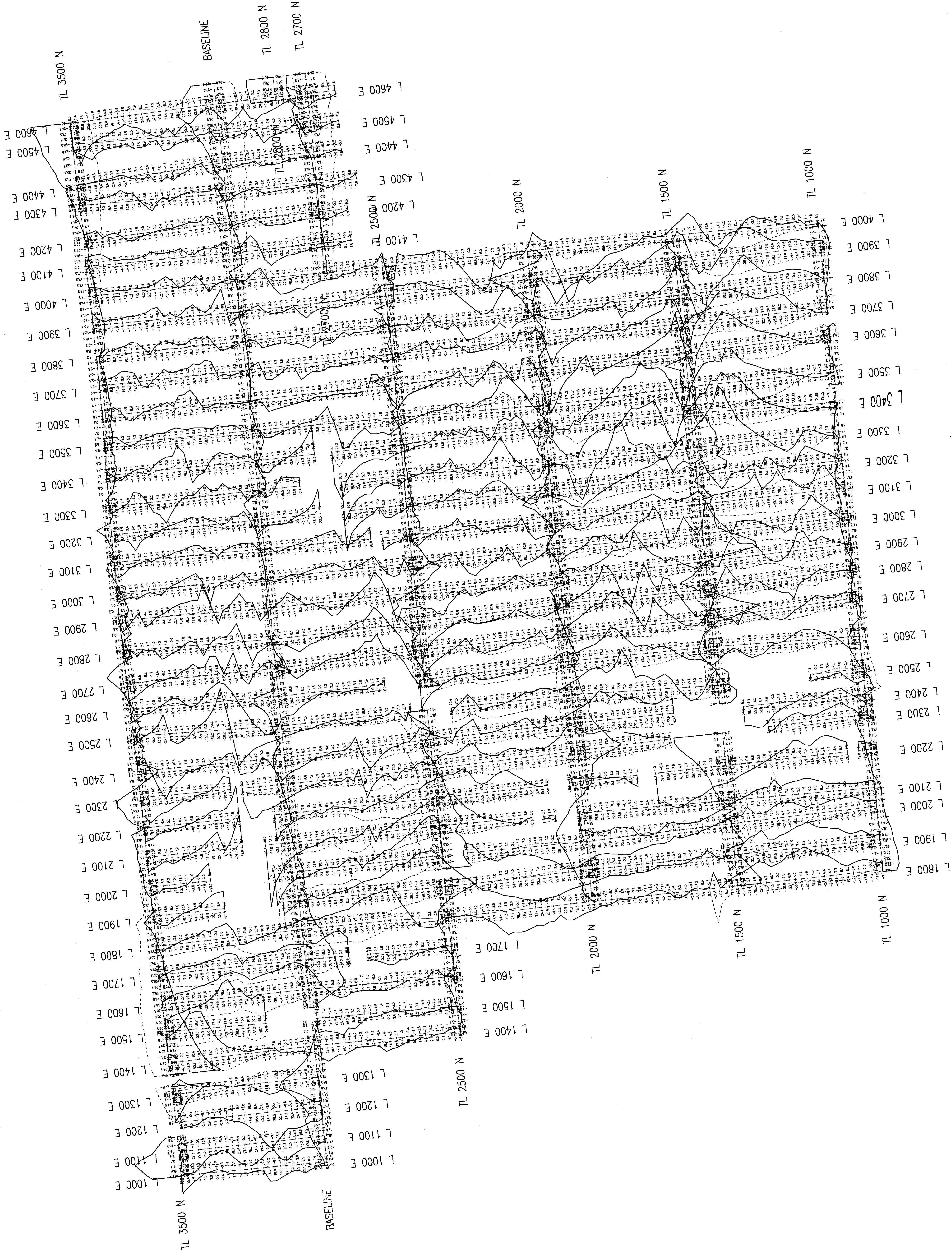


Scale 1:5000 (meters)  
**2.15092**

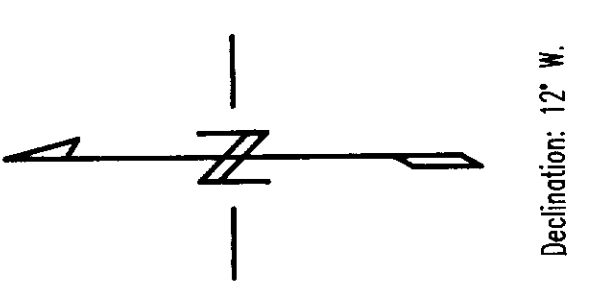
FALCONBRIDGE LTD.  
Robertson Township Project

Whitefish West Grid  
 GROUND VLF-EM SURVEY  
 NAA Postings & Profiles  
 Robertson Township  
 Larder Lake Mining Division  
 Ontario

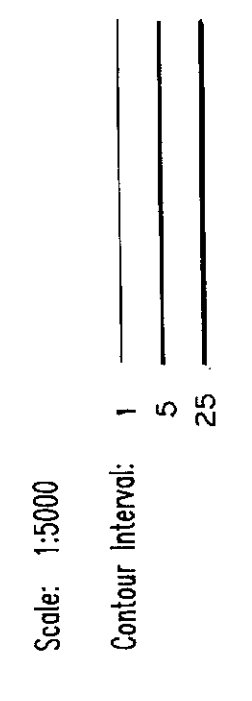
NTS: 42 A/2 Map No. RTP-03  
 Survey & Presentation:  
 MacLennan Inc.  
 Oshawa, Ontario  
 October 1997





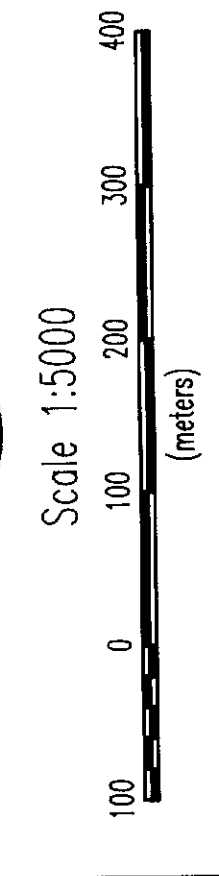
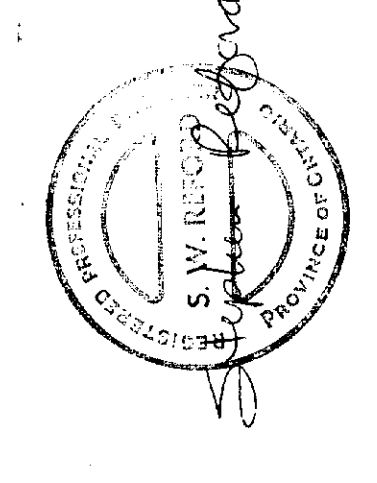


LEGEND



SURVEY SPECIFICATIONS

Instrument: EDM Instruments Omni Plus receiver  
Transmitter Station: Collier, Maine  
Transmitter Frequency: 24.0 MHz  
Initialization Direction: N-S Lines, Facing North

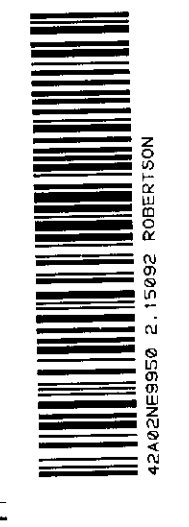
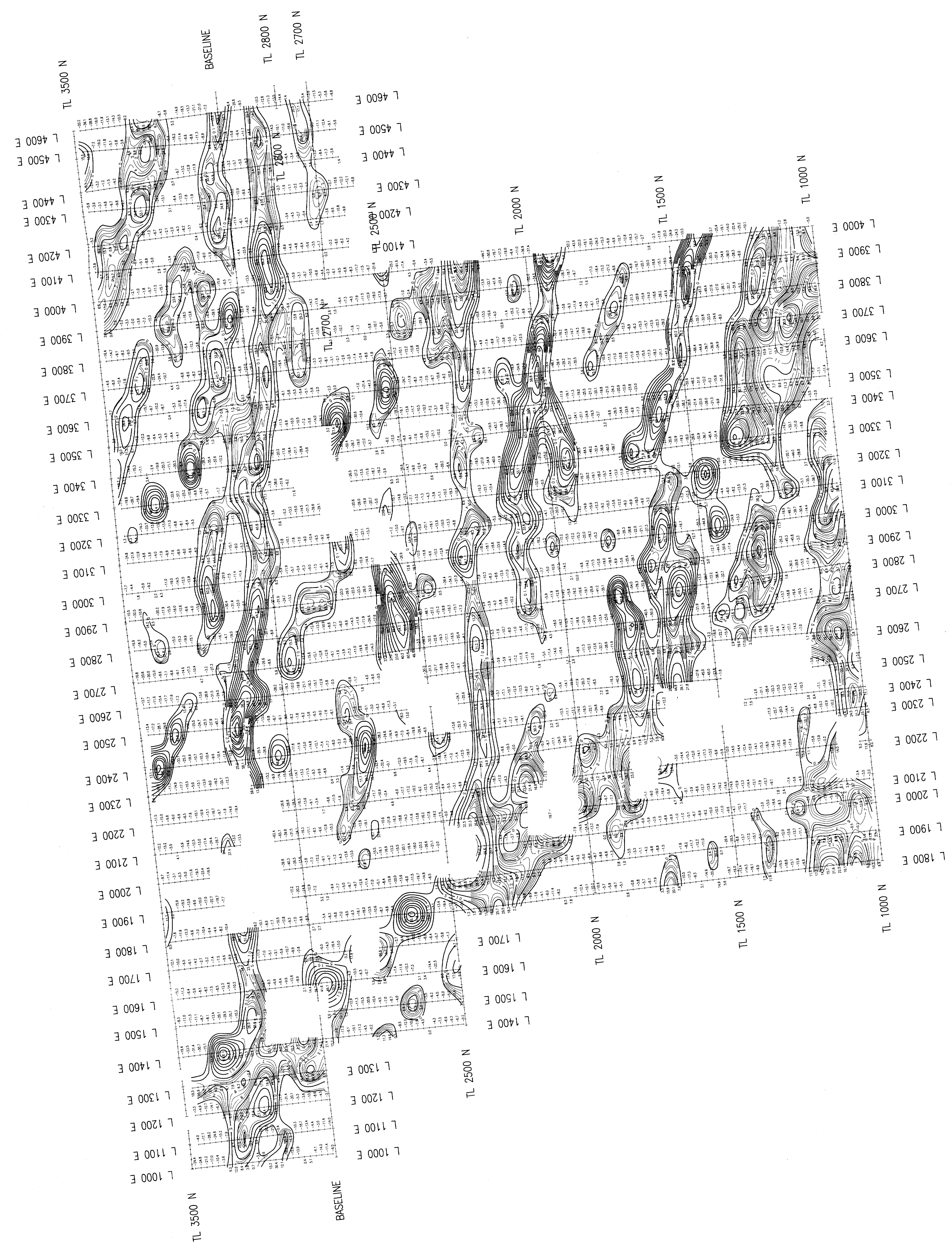


2 · 15092

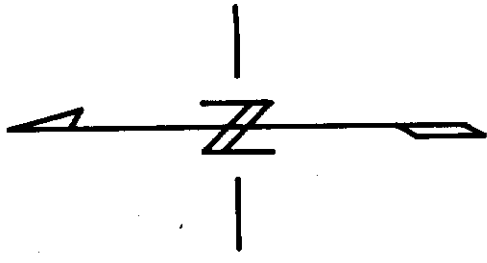
FALCONBRIDGE LTD.  
Robertson Township Project

Whitefish West Grid  
GROUND VLF-EM SURVEY  
NAA Fraser Filter Contours  
Robertson Township  
Larder Lake Mining Division  
Ontario

N.T.S. 42 A/2 Map No. RTP-04  
Survey & Presentation:  
Geometrics Inc.  
Oshawa, Ontario  
October, 1997







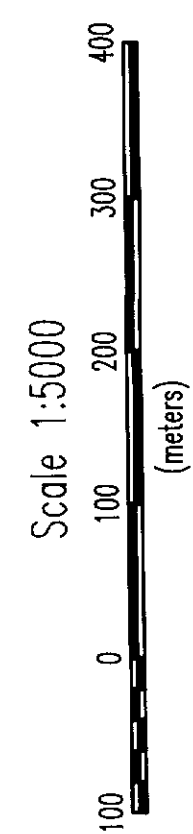
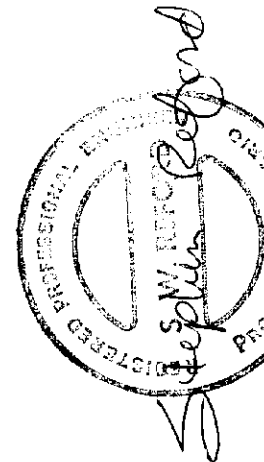
Destination: 17 W.

LEGEND

Scale: 1:5000  
Profile Scale: 500 m/cm.  
Profile Base Level: 58,200 ni

SURVEY SPECIFICATIONS

Instruments: EDA Omni IV Base Magnetometer  
EDA Omni Plus Field Magnetometer  
Base Station Location: 4855m E, 2990m N  
Base Station Value: 58,145 ni.  
Base Station Sample Interval: 15 sec.



2 · 15092

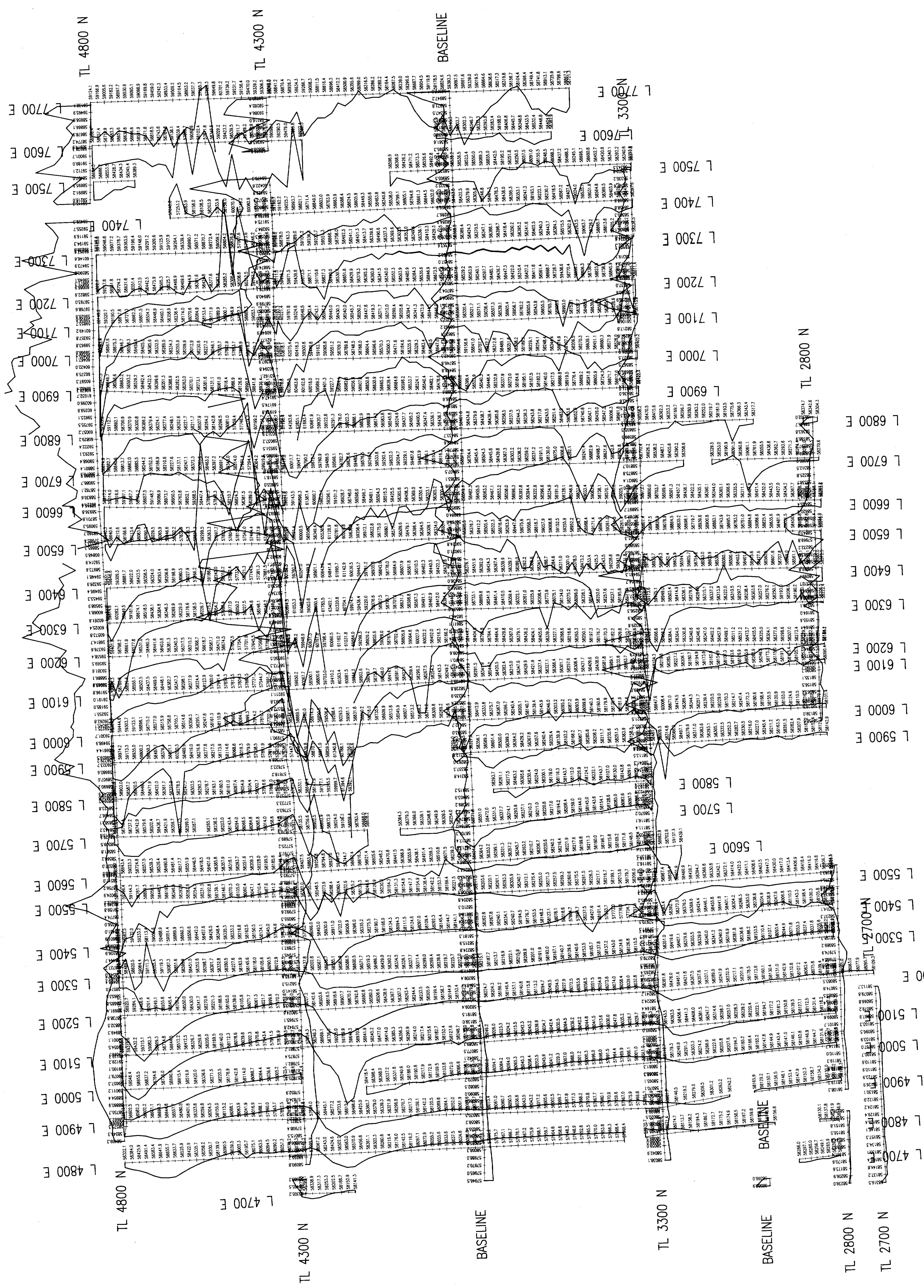
FALCONBRIDGE LTD.  
Robertson Township Project

Whitefish East Grid  
GROUND MAGNETOMETER SURVEY  
Total Field Postings & Profiles

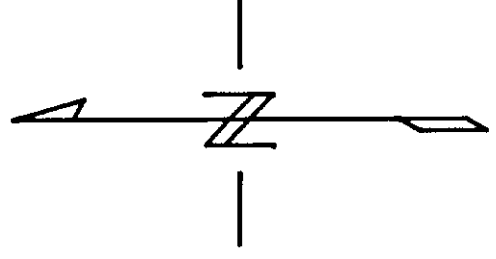
Robertson Township  
Larder Lake Mining Division  
Ontario

NIS: 42 A/2 Map No. RTP-05

Survey & Presentation:  
Ichler Inc.  
Oshawa, Ontario  
October 1997







Declination: 12' W.

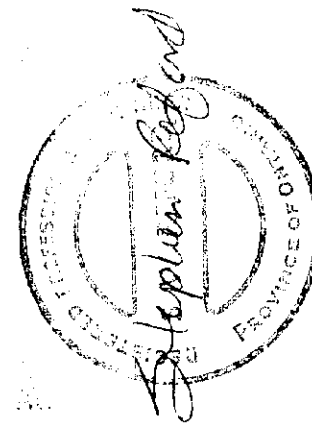
**LEGEND**

Scale: 1:5000  
Contour Interval: 50 ft.  
100 ft.  
250 ft.



**SURVEY SPECIFICATIONS**

Instruments: EDA Omni IV Base Magnetometer  
EDA Omni Plus Field Magnetometer  
Base Station Location: 4655m E, 2990m N  
Base Station Value: 58,145 m.  
Base Station Sample Interval: 15 sec.



Scale 1:5000  
(metres)

**2.15092**

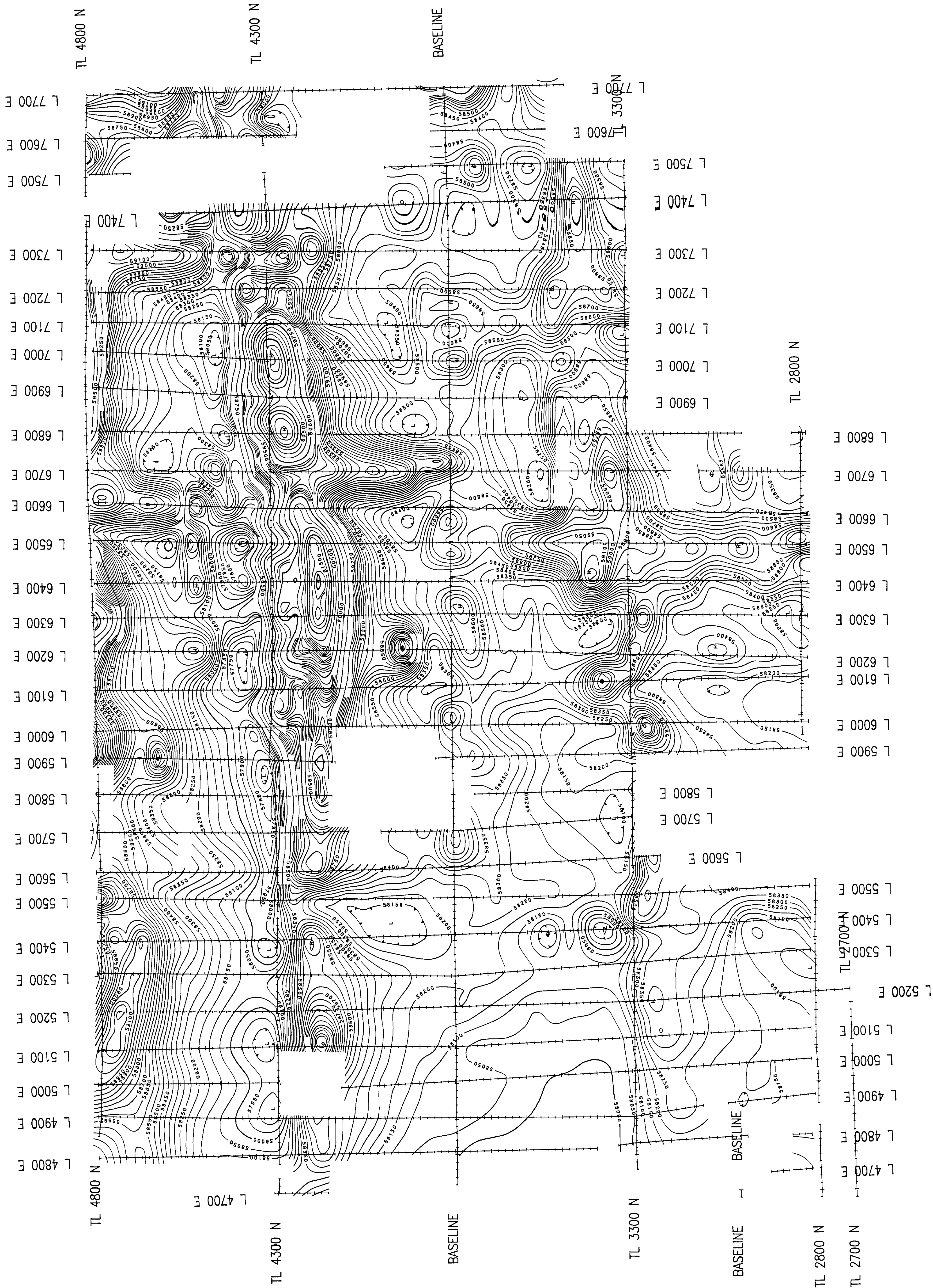
FALCONBRIDGE LTD.  
Robertson Township Project

Whitefish East Grid  
GROUND MAGNETOMETER SURVEY  
Total Field Contours

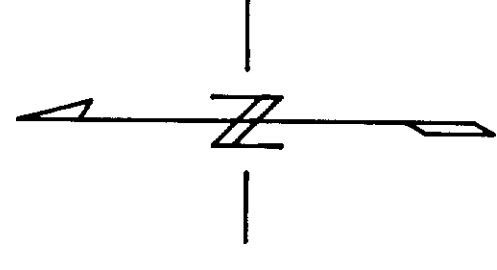
Robertson Township  
Larder Lake Mining Division  
Ontario

N.T.S. 42 A/2 Map No. RTP-06

Survey & Presentation:  
Kochera Inc.  
Oshawa, Ontario  
October, 1992



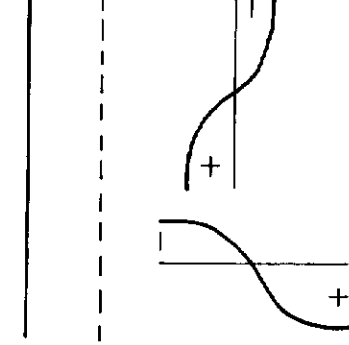




Declination: 12' W.

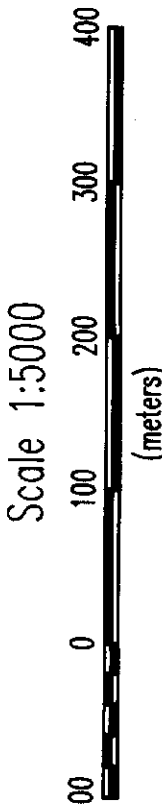
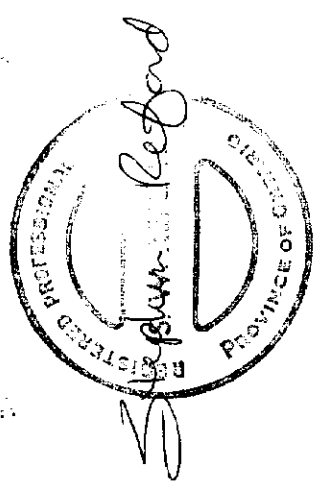
LEGEND

Scale: 1:5000  
Profile Scale: 20 %/cm.  
In-Phase Profiles:  
Quadrature Profiles:  
Plotting configuration



SURVEY SPECIFICATIONS

Instrument: EM Instruments Omni Plus VLF Receiver  
Transmitter Station: Collier, Maine  
Transmitter Frequency: 24.0 MHz.  
Indication Direction: M-S Lines: Facing North  
E-W Lines: Facing East  
NOTE: Rise & Fall Lines surveyed with Anemostat, Mt.  
Frequency: 21.4 MHz.

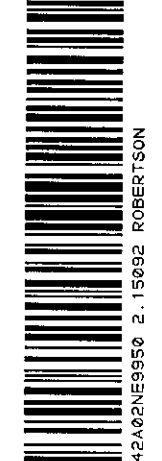
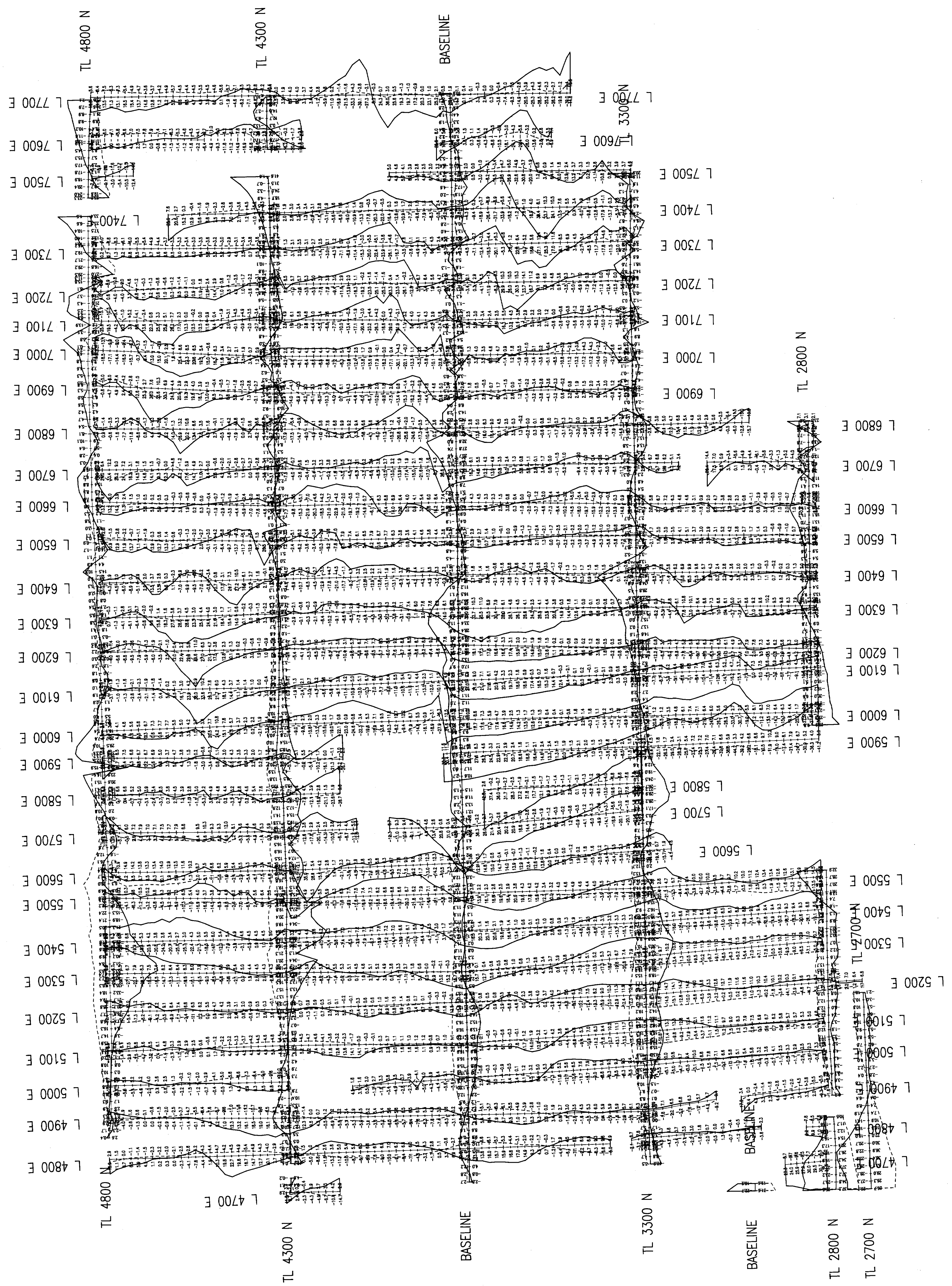


2.15092

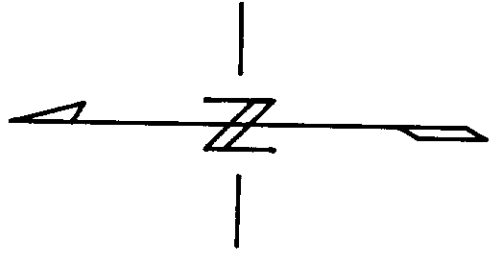
FALCONBRIDGE LTD.  
Robertson Township Project

Whitefish East Grid  
GROUND VLF-EM SURVEY  
NMA Postings & Profiles  
Robertson Township  
Larder Lake Mining Division  
Ontario

NIS: 42 A/2 Map No. RIP-07  
Survey & Presentation:  
Richard W. McNeil  
Oshawa, Ontario  
October, 1997







Declination: 12 W.

**LEGEND**

Scale: 1:5000

Contour Interval: 1

5

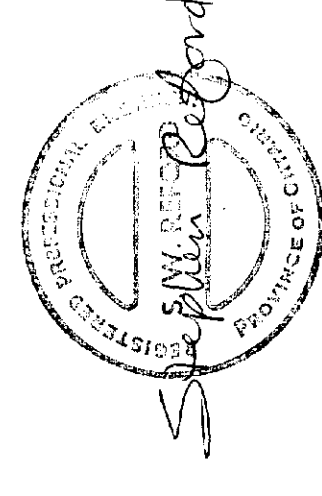
25

**SURVEY SPECIFICATIONS**

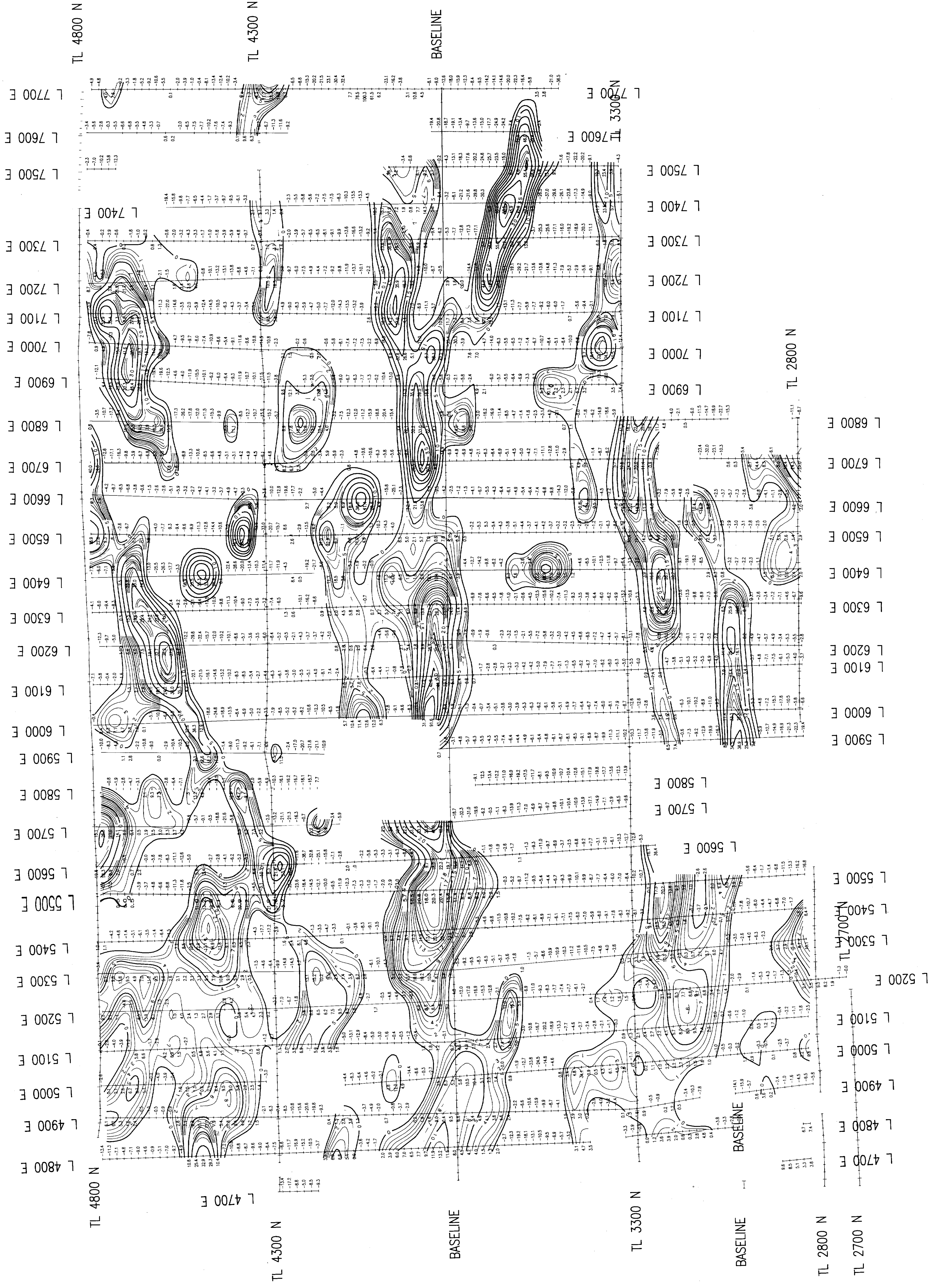
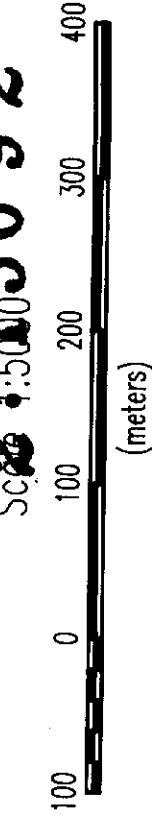
Instrument: EDA Instruments Omni Plus Mag/MF receiver

Transmitter Station: Oulter, Maine

Transmitter Frequency: 24.0 kHz.



SC 45105092



FALCONBRIDGE LTD.  
Robertson Township Project

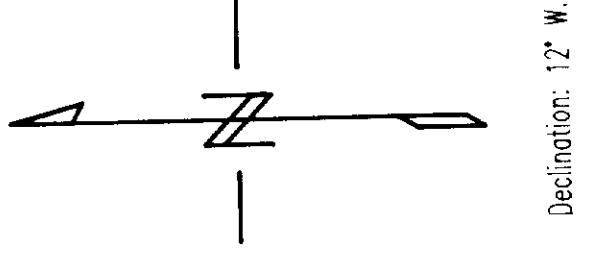
Whitefish East Grid  
GROUND VLF-EM SURVEY  
NAA Fraser Filter Contours  
Robertson Township  
Larder Lake Mining Division  
Ontario

NIS: 42 A/2 Map No. RIP-08

Survey & Presentation:  
Technica, Inc.  
Oshawa, Ontario  
October, 1992

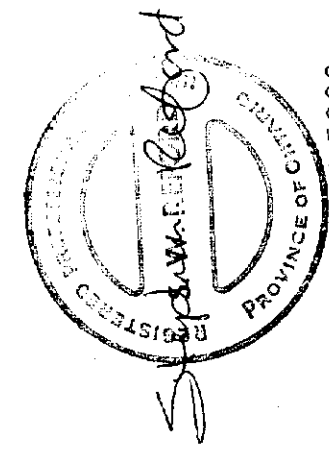






LEGEND

- Scale: 1:5000
- MAGNETIC UNITS
- 1 Granitoids
  - 2 Felsic to Intermediate Flows
  - 3 Intermediate to Mafic Flows
  - 4 Mafic to Ultramafic Intrusions
  - 5 Diabase Dykes
- Fault
- VLF EM Conductor



Scale 1:5000  
(meters)

2.15092

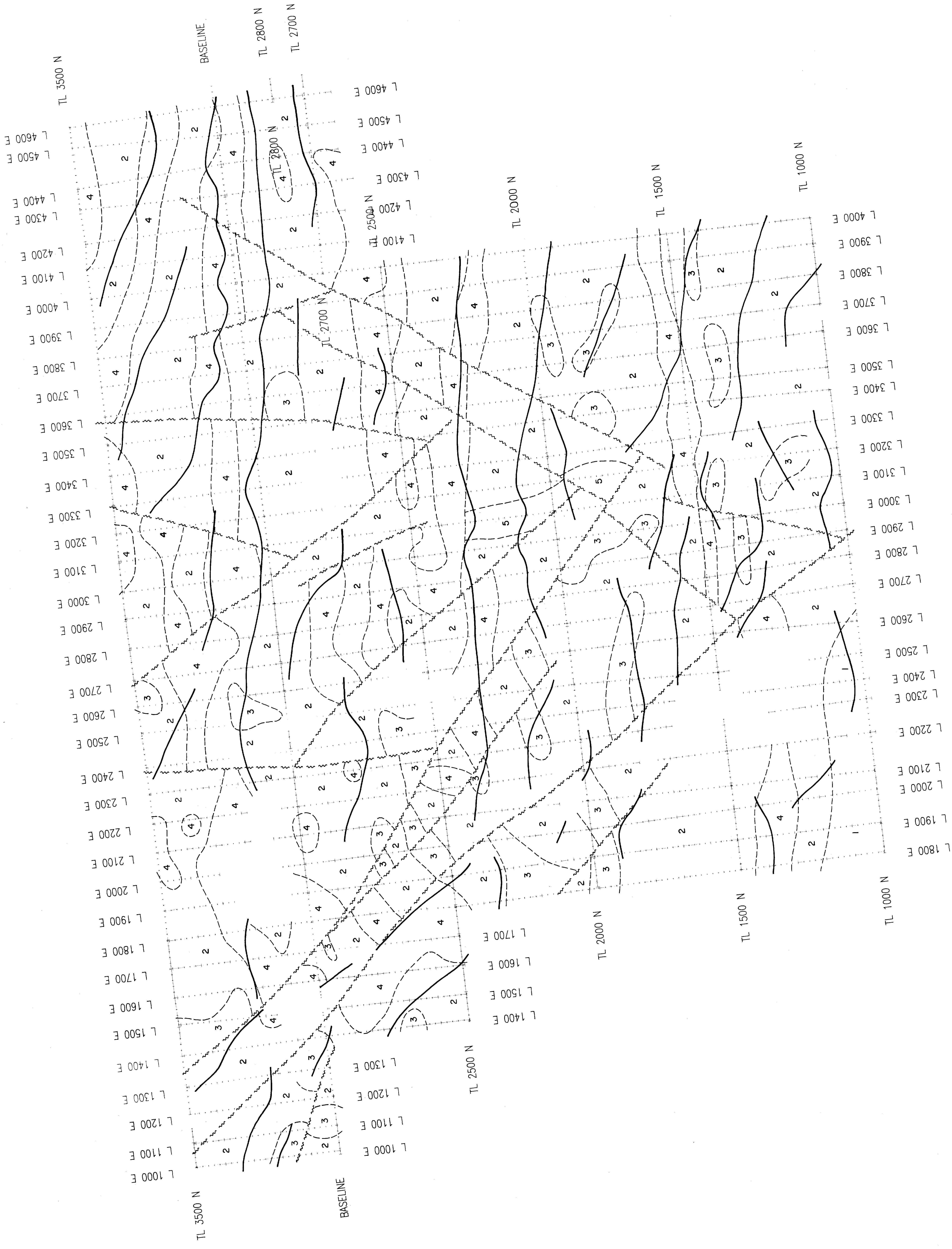
FALCONBRIDGE LTD.  
Robertson Township Project

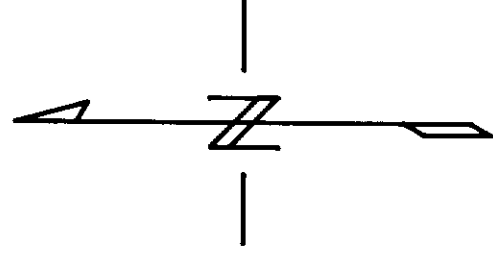
Whitefish West Grid  
PLAN OF INTERPRETATION

Robertson Township  
Larder Lake Mining Division  
Ontario

NIS: 42 A/2 Map No. RTP-09

Survey & Presentation:  
Falconbridge Inc.  
Oshawa, Ontario  
October, 1997





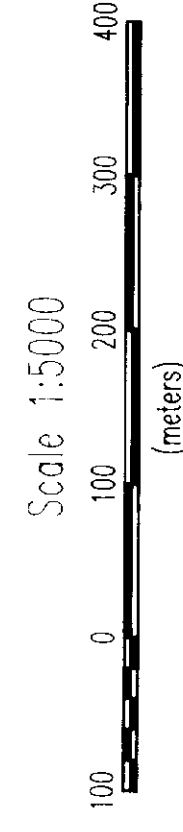
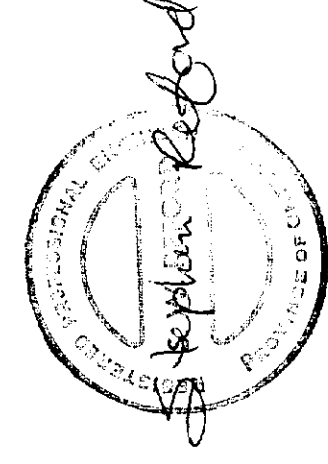
Declination: 17' W

LEGEND

Scale: 1:5000

MAGNETIC UNITS

- 1 Granitoids
  - 2 Felsic to Intermediate Flows
  - 3 Intermediate to Mafic Flows
  - 4 Mafic to Ultramafic Intrusions
  - 5 Diabase Dykes
- Fault
- VLF EM Conductor



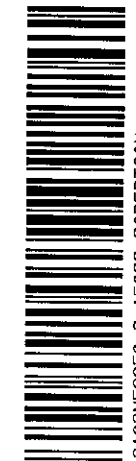
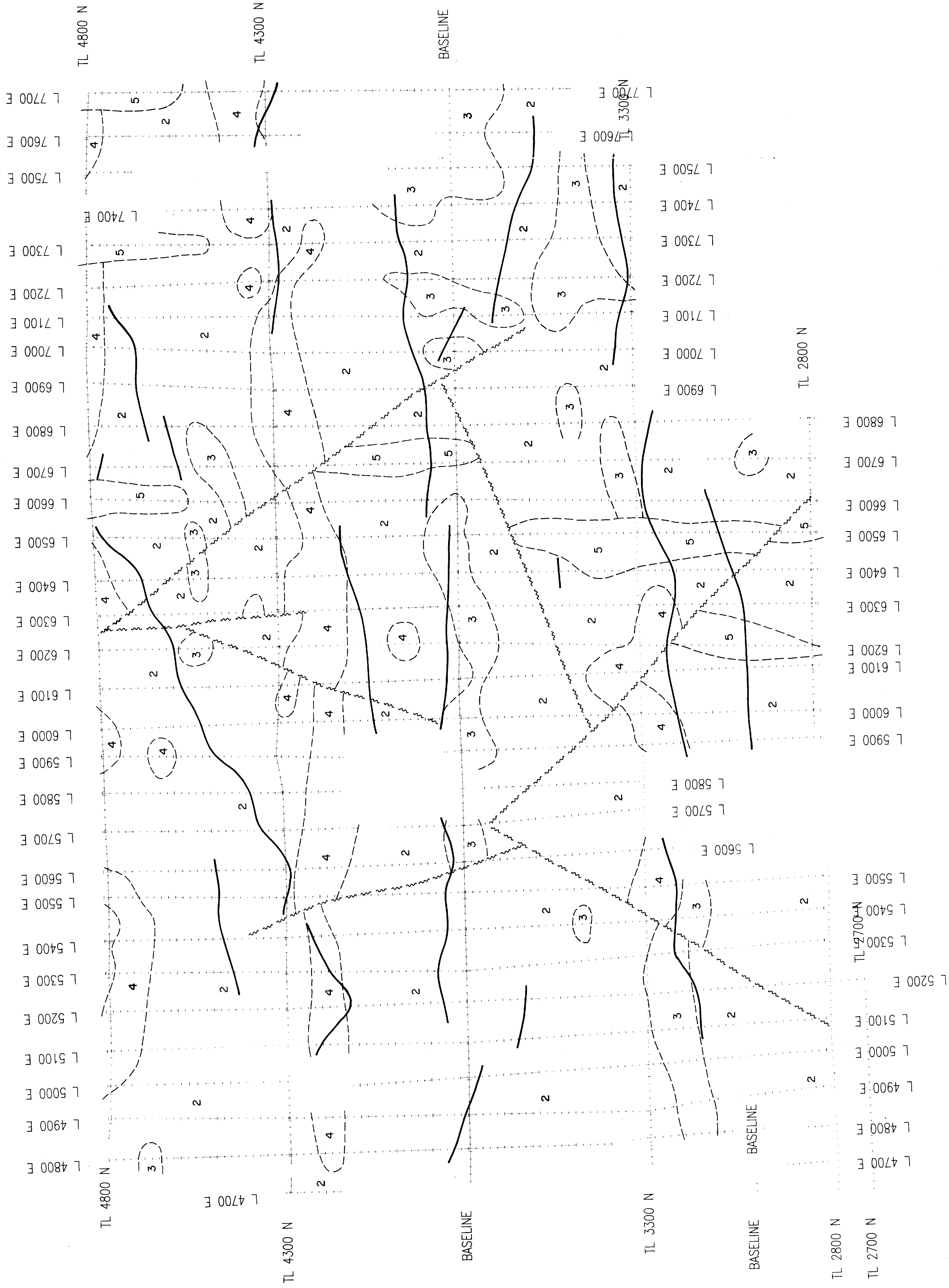
2. 15092

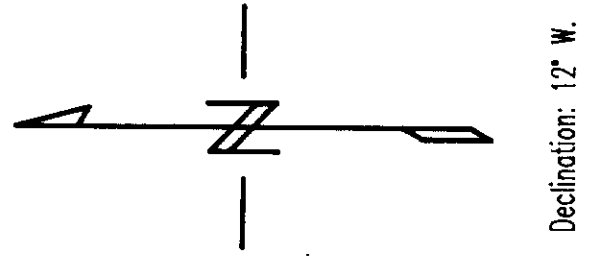
FALCONBRIDGE LTD.  
Robertson Township Project

Whitefish East Grid  
PLAN OF INTERPRETATION

Robertson Township  
Larder Lake Mining Division  
Ontario

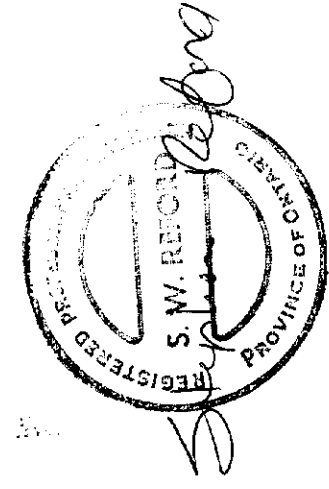
N.T.S. 4: A/2 Map No. RTP-10  
Survey & Presentation:  
Lechman Inc.  
Oshawa, Ontario  
October, 1997





LEGEND

- Scale: 1:5000
- Pond/Lake
- Stream/River
- Road
- Trail
- Chain Line
- Located Chain Post
- Assumed Chain Post



Scale 1:5000  
 0 100 200 300 400  
 (meters)

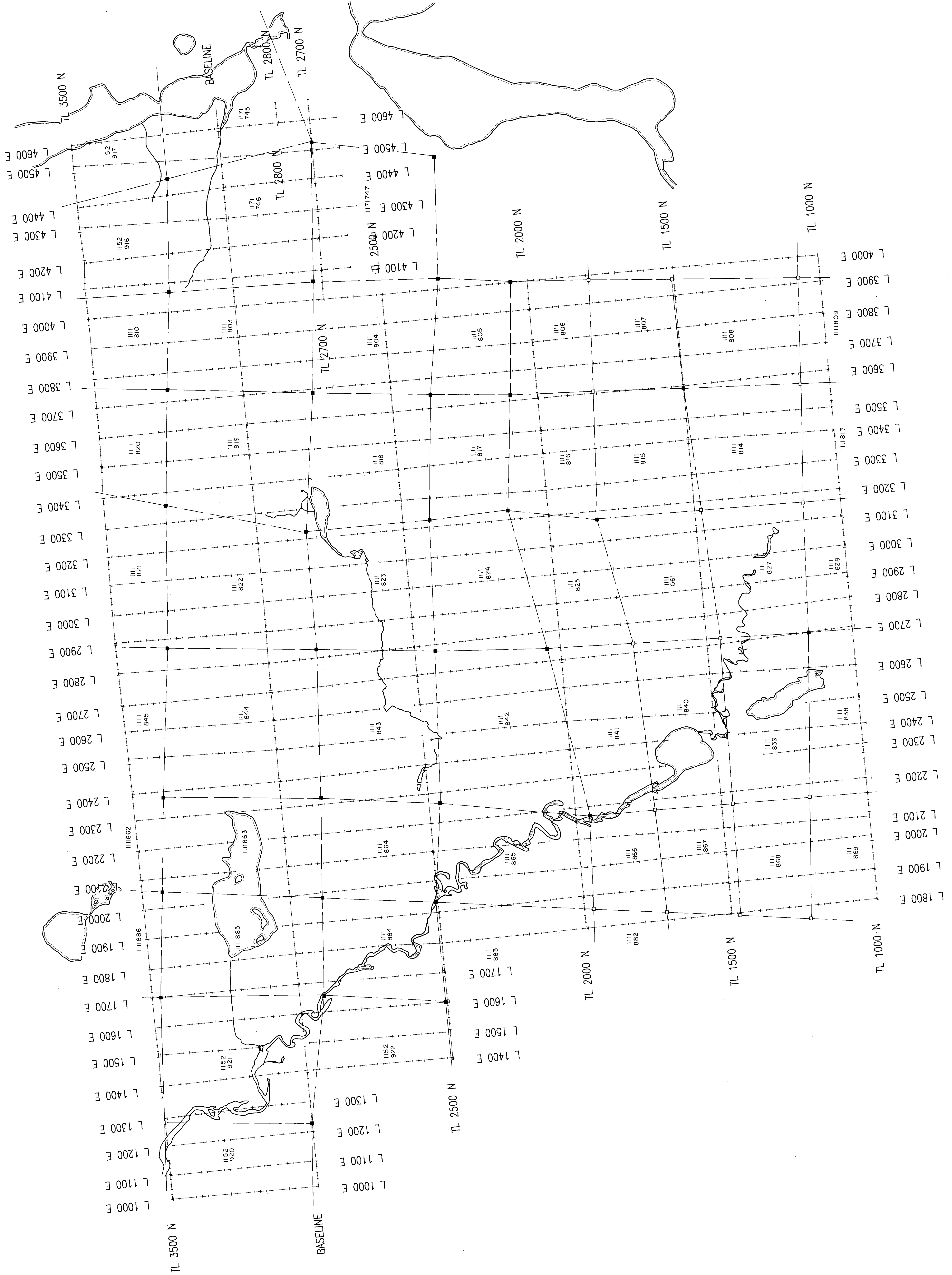
2-15092

FALCONBRIDGE LTD.  
 Robertson Township Project

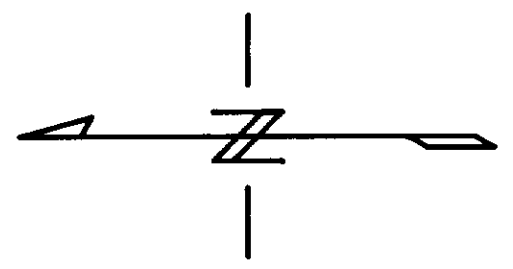
Whitefish West Grid  
 PLAN OF TOPOGRAPHY

Robertson Township  
 Larder Lake Mining Division  
 Ontario

M/S: 42-A/2 Map No. RTP-11  
 Survey & Presentation:  
 Tedler Inc.  
 Oshawa, Ontario  
 October 1997



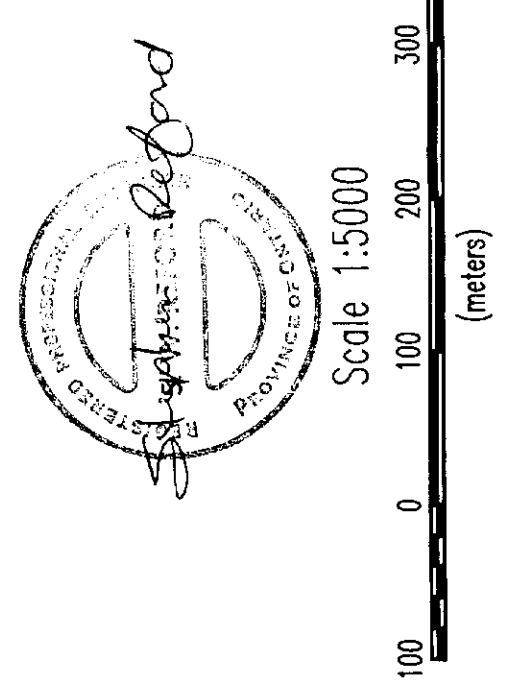




Declination: 12 W.

**LEGEND**

- Scale: 1:5000
- Pond/Lake
- Stream/River
- Road
- Trail
- Claim Line
- Located Claim Post
- Assumed Claim Post



**2. 15092**

FALCONBRIDGE LTD.  
Robertson Township Project

Whitefish East Grid  
PLAN OF TOPOGRAPHY

Robertson Township  
Larder Lake Mining Division  
Ontario

NIS: 42 A/2 Map No. RTP-12  
Survey & Presentation:  
Techler Inc.  
Oshawa, Ontario  
October, 1987

