



52J08NW9150 2.5010 SMYE

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*2.5010
duplicate*

REPORT
ON
ELECTROMAGNETIC & MAGNETIC SURVEYS
BY
ABITIBI-PRICE INC.
MINERAL RESOURCES DIVISION
SMYE TOWNSHIP
SAVANT LAKE AREA, ONTARIO

RECEIVED

AUG 27 1982

MINING LANDS SECTION

Deborah A. McCombe
Abitibi-Price Inc.
Mineral Resources Division

July 1982



010C

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INTRODUCTION

PURPOSE OF SURVEY

Systematic EM-16 and Magnetic Surveys were performed over staked claims held by Abitibi-Price Inc. for the purpose of exploring for base and precious metal sulphide deposits. The four claims covered by this report occur in Smye Township, Patricia Mining Division, Ontario.

LOCATION AND ACCESS

The staked area is situated approximately 145 miles north - northwest of Thunder Bay, Ontario. The area is accessible by fixed wing aircraft.

PROPERTY

The four unpatented claims covered by this survey and held by Abitibi-Price Inc. include:

PA 487348-351

PREVIOUS WORK

In the early 1920's, gold was first discovered on a small island in Savant Lake. Savant Mines Limited explored extensively in the Stillar Bay area, Jutten Township, at that time. In 1946, Northern Canada Mines Limited staked four patented claims over a gold showing in Jutten Township which they currently maintain.

In 1971, Langis, Silver and Cobalt Mining Company Limited performed ground electromagnetic and magnetic surveys over the Smye Township area but the claims were subsequently dropped.

Several old test pits with low Au, Ag, Pb and Zn values were located in the field, and probably date back to early 1920 exploration.

GEOLOGY

The rocks underlying Smye Township are of Early Precambrian (Archaen) age. Mafic metavolcanics cover most of the claim group with the southwestern corner underlain by a granitic intrusive. This intrusive is medium grained, massive, and bright pinkish in colour. There is a sharp contact between the mafic metavolcanics to the north and the intrusive.

SURVEY PROCEDURE

A Geonics EM-16 unit was used for the reconnaissance EM survey. The survey was completed in May and June 1982 and the stations were read at 100 foot intervals and the profiles were plotted at 1" = 20%.

Approximately four miles of line were cut by K. Bernier in May 1982 with pickets at 100 foot intervals.

A Fluxgate MF-2 magnetometer manufactured by Scintrex, was used for the magnetic survey. Stations were read at 50 foot intervals.

STATISTICS

Approximately 4 miles of grid line were cut on the four claims.

EM-16 readings were observed at 194 stations and magnetometer readings were observed at 383 stations.

INTERPRETATION

Maximum magnetic relief on the property is approximately 12,000 gammas. The dominant feature is a strong magnetic ridge, aligned east-west between 12+00E, 5+00N to 6+00N and 12+00W, 11+00N to 12+00N with magnetic intensities above 1000 gammas. (Background level approximately 500 - 600 gammas).

Several smaller magnetic ridges trending NW occur in claim PA 487350.

EM-16

A strong EM conductor trends approximately east-west just below the base line in claims PA 487350 and PA 487351. This conductor appears to be associated with a mineralized, silicified zone located in the trenches on line 0, 1+00S. No significant magnetic anomalies appear to be associated with this conductive zone.

A second, fairly strong EM conductor trends east-west across the claim group with the strongest portions between line 4+00W, 9+00N and 12+00W, 10+00N.

A third EM conductor occurs on claim PA 487350 line 12+00W, 8+00S to line 8+00W, 6+00S. This appears to be associated with a magnetic anomaly. Detailed geological mapping is required to fully explain the second and third EM conductors.

CONCLUSION AND RECOMMENDATIONS

Several geophysical targets were outlined in this reconnaissance survey. In 1975, Amalgamated Rare Earth Mines Limited drilled several holes in the vicinity on an EM conductor. Chalcopyrite, pyrite, pyrrhotite and trace base metal values were indicated in the predominantly mafic meta-volcanics.

Therefore, a detailed geological mapping and compilation program is recommended before any diamond drilling of the above mentioned conductors is undertaken.

Debra A McCombe

D. A. McCombe
DAM/vs



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natural Resources

File _____

Ontario

900 GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

RECEIVED

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.

AUG 27 1982

MINING LANDS SECTIC

Type of Survey(s) Magnetic, EM-16

Township or Area Smye Township

Claim Holder(s) Abitibi-Price Inc., Mineral Resources Div

P.O. Box 21, Toronto Dominion Center, Toronto

Survey Company K. Bernier, Sioux Lookout, Ontario

Author of Report Deborah A. McCombe

Address of Author P.O. Box 21, Toronto Dominion Center, Toronto

Covering Dates of Survey May 1, 1982 - July 23, 1982
(linecutting to office)

Total Miles of Line Cut 4 Miles

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

PA. 487348

PA. 487349

PA. 487350

PA. 487351

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

Geophysical

-Electromagnetic 40

-Magnetometer 20

-Radiometric _____

-Other _____

Geological _____

Geochemical _____

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

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

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

DATE: July 23, 1982 SIGNATURE: Deborah A. McCombe
Author of Report or Agent

Res. Geol. _____ Qualifications 23963

Previous Surveys

File No. Type Date Claim Holder

File No.	Type	Date	Claim Holder

PATRICIA MINING DIV
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JUL 27 1982
A.M. P.M.
7 8 9 10 11 12 1 2 3 4 5 6

TOTAL CLAIMS 4

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations MAG 383 EM-16 194 Number of Readings 383 194
Station interval 50 ft. 100 ft. Line spacing 400 foot
Profile scale 1" = 20%
Contour interval 1000 gammas

MAGNETIC

Instrument Scintrex Fluxgate MF-2
Accuracy - Scale constant 50 gammas
Diurnal correction method Looping along adjacent lines & correcting to base station.
Base Station check-in interval (hours) 1.0 Hrs.
Base Station location and value BL & 12+00W, 540 gammas

ELECTROMAGNETIC

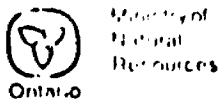
Instrument EM-16
Coil configuration In line
Coil separation
Accuracy +/- 2%
Method: [] Fixed transmitter [] Shoot back [x] In line [] Parallel line
Frequency EM-16 Cutler Maine (specify V.L.F. station)
Parameters measured In phase & quadrature

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



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

Revised
82-69

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.

F.W.M. Mining Lands

The Mining Act 25010

Type of Survey(s) Magnetometer	Township or Area Smye M-1893
Claim Holder(s) Abitibi-Price Inc., Mineral Resources Division	Prospector's Licence No. T840
Address P.O. Box 21, T-D Centre, Toronto, Ontario M5K 1B3	
Survey Company Abitibi-Price personnel & Ken Bernier	Date of Survey (from & to) Day Mo. Yr. Day Mo. Yr. 1 4 82 1 6 82
Name and Address of Author (of Geo-Technical report) Deborah A. McCombe, P.O. Box 21, T-D Centre, Toronto, Ontario M5K 1B3	
Total Miles of line Cut 4	

Credits Requested per Each Claim in Columns at right			Mining Claims Traversed (List in numerical sequence)					
Special Provisions	Geophysical	Days per Claim	Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
			Prefix	Number		Prefix	Number	
For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	- Electromagnetic		PA	487348	40			
	- Magnetometer	40		487349	40			
	- Radiometric			487350	40			
	- Other			487351	40			
Man Days Complete this section and enter totals here RECEIVED DEC - 6 1982 MINING LANDS SECTION	Geophysical	Days per Claim						
	- Electromagnetic							
	- Magnetometer							
	- Radiometric							
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim						
	Magnetometer							
	Radiometric							

Expenditures (excludes power stripping)

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.

P. 487348

Total number of mining claims covered by this report of work. **4**

PATRICIA MINING DIV.
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DEC - 1 1982
A.M. P.M.
1 2 3 4 5 6 7 8 9 10 11 12

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Total Days Cr. Recorded **160**

Date Recorded **June 21 1982**

Date Approved and Recorded **83:04:77**

Mining Records

Checked by *[Signature]*

Date **Nov. 26, 1982**

Reported Holder or Agent (Signature) *[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
Dr. J.A. McGregor, P.O. Box 21, T-D Centre, Toronto, Ontario M5K 1B3

Date Certified

Certified by (Signature) *[Signature]*

Report of Work
 (Physical, Geological, Geotechnical and Expenditures)
 #82-17
 The Mining Act 2 5010
 Note: Only the shaded areas are to be recorded in the "Days Cr." column. Do not use shaded areas below.

F.W.M. Mining Lands
 Type of Survey(s) Oil-16 Township or Area Smye M-1893

Claim Holder(s) Abitibi-Price Inc. Mineral Resources Division Prospector's Licence No. T-840

Address P.O. Box 21, T-D Centre, Toronto, Ontario M5K 1B3

Survey Company Abitibi-Price personnel & Ken Bernier Date of Survey (from & to) Day 4 Mo. 82 Day 6 Mo. 82 Total Miles of line Cut 4

Name and Address of Author (of Geo-Technical report) Deborah A. McCombe P.O. Box 21, T-D Centre, Toronto, Ontario M5K 1B3

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

Mining Claims Traversed (List in numerical sequence)			Mining Claims Traversed (List in numerical sequence)		
Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
PA	487348				
	487349				
	487350				
	487351				

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 AUG 27 1982
 MINING LANDS SECTION

PATRICIA MINING DIV.
RECEIVED
 AUG - 5 1982
 A.M. P.M.
 7 8 9 10 11 12 1 2 3 4 5 6

Expenditures (excludes power stripping)
 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.

Pa. 487348
 Total number of mining claims covered by this report of work. 4

For Office Use Only
 Total Days Cr. Recorded 80 Date Recorded Aug 5, 1982 Mining Recorder [Signature]
 Date Absolved or Recorded 83.04.79

Date July 30/82 Recorded Holder or Agent (Signature) [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
D.A. McCombe, Abitibi-Price Inc. Mineral Resources Division P.O. Box 21 T-D Centre
Toronto, Ontario M5K 1B3
 Date Certified July 30, 1982 Certified by (Signature) [Signature]



Ministry of
Natural
Resources

Geotechnical
Report
Approval

File **2.5010**

Jan 4/83

Mining Lands Comments

To: Geophysics *Mr Barlow*

Comments

<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date <i>Jan 31/83</i>	Signature <i>Ryan [Signature]</i>
--	---	-----------------------	-----------------------------------

To: Geology - Expenditures

Comments

<input type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date	Signature
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To: Geochemistry

Comments

LD

<input type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date	Signature
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To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1982 09 21

2.5010

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timming, Ontario
F4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical
(Electromagnetic) Survey submitted under Special
Provisions (credit for Performance and Coverage) on
Mining Claims PA 487348 et al in the Township of Smye.

This material will be examined and assessed and a
statement of assessment work credits will be issued.

Yours very truly

E.F. Anderson
Director
Land Manggement Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone 416/965-1316

J. Skura:sc

cc: Abitibi-Price Inc
Toronto, Ontario
Attn: Deborah A. McCombe.

Missing Geology Report
on PA 487348-51

November 16, 1982

Abitibi-Price Inc.
Mineral Resources Division
P.O. Box 21
Toronto-Dominion Centre
Toronto, Ontario
M5K 1B3

Attention: D.A. McCombe

Missing Mag & Geology^{F.E.M}
on PA 487352-53
will be prepared to include
only Mag.

Dear Ms. McCombe:

Enclosed is a copy of a report of work for Geological and Magnetometer assessment work credits that was recorded by the recorder on June 21, 1982 on Mining Claims Pa 487352 et al in the Townships of Poisson and Smye.

We have no record that you provided the full reports and maps to the Minister within the sixty day period provided by Section 77 of the Minigg Act.

Unless you can provide evidence ~~that~~ the reports and maps were submitted as required by November 20, 1982, the mining recorder will be directed to cancel the work credits recorded on June 21, 1982.

For further information, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

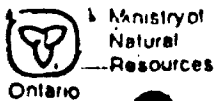
E.P. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

Diane Wice

Encl.

cc: Mining Recorder
Patricia, Ontario



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

82-69

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.

F.W.M. Mining Lands

The Mining Act

Type of Survey(s) Magnetometer, Geological	Township or Area M-1865
Claim Holder(s) Abitibi-Price Inc. Mineral Resources Division	Poisson, Smye M-1893 Prospector's Licence No.
Address P.O. Box 21 T-D Centre Toronto, Ontario M5K 1B3 (866,4610) <i>Korann Kelly</i>	
Survey Company Abitibi-Price personnel & Ken Bernier	Total Miles of line Cut 4
Date of Survey (from & to) 1 Day 4 Mo. 82 Yr. 1 Day 6 Mo. 82 Yr.	
Name and Address of Author (of Geo-Technical report) Deborah A. McCombe P.O. Box 21 T-D Centre Toronto, Ontario M5K 1B3	

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	40
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	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
PA	487352	40			
	487353	40			
	487348	40			
	487349	40			
	487350	40			
	487351	40			

Mag survey on 2,5010

mag survey only

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JUL 26 1982
MINING LANDS SECTION

PATRICIA MINING DIV.
RECEIVED
JUN 21 1982
A.M. 7,8,9,10,11,12,1,2,3,4,5,6 P.M.

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

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

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 Date Approved by Recorder

Branch Director

Date 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.

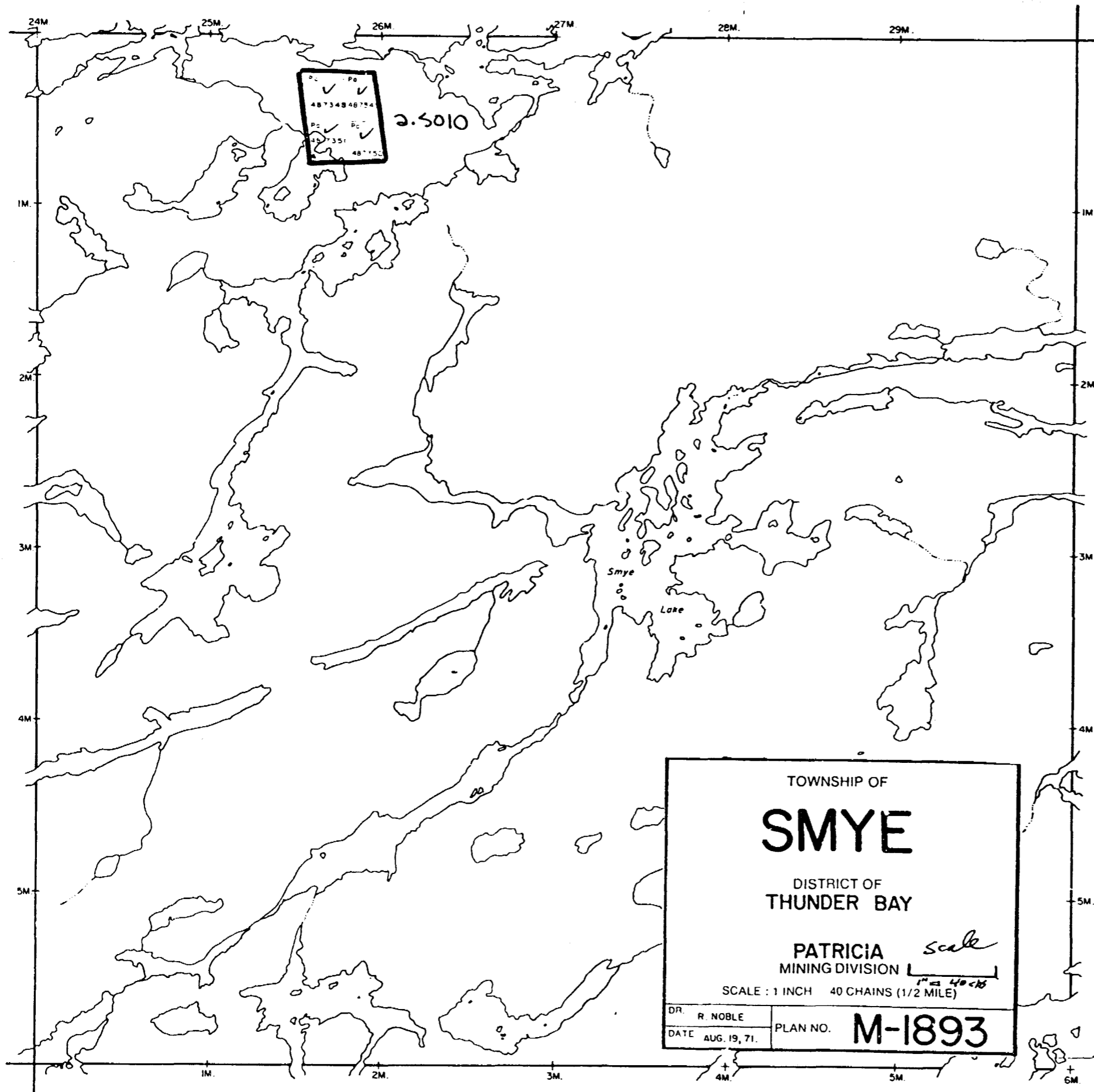
Name and Postal Address of Person Certifying
D.A. McCombe, Abitibi-Price Inc. Mineral Resources Division P.O. Box 21 T-D Centre Toronto, Ontario M5K 1B3

Date Certified Certified by (Signature)

Mc GILLIS TWP. M-1806

JUTTEN TWP. M-1767

FLETCHER TWP. M-1715



TOWNSHIP OF
SMYE
 DISTRICT OF
 THUNDER BAY

PATRICIA *Scale*
 MINING DIVISION

SCALE : 1 INCH = 40 CHAINS (1/2 MILE)

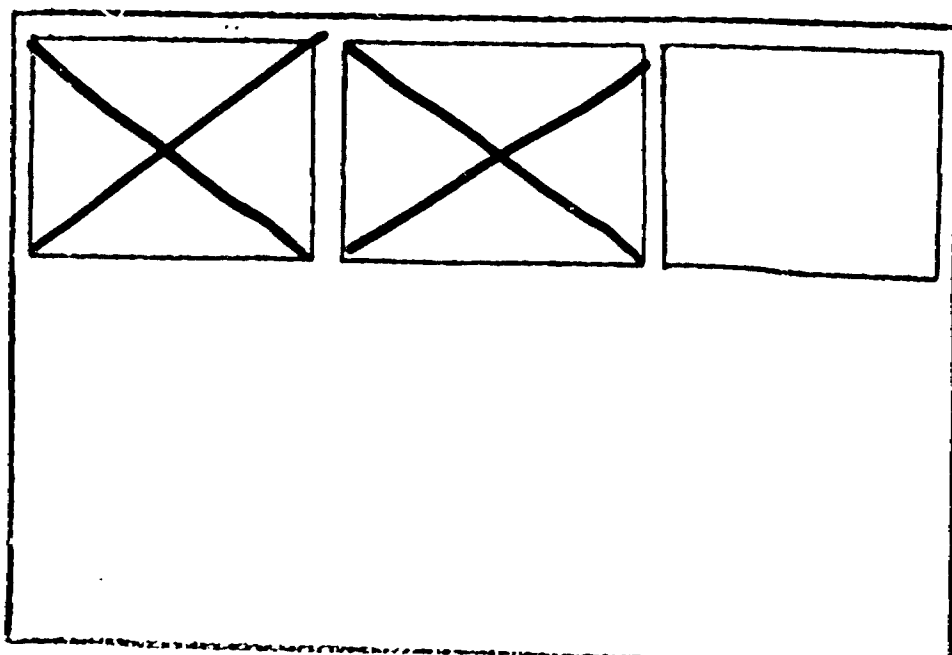
DR. R. NOBLE	PLAN NO. M-1893
DATE AUG. 19, 71.	

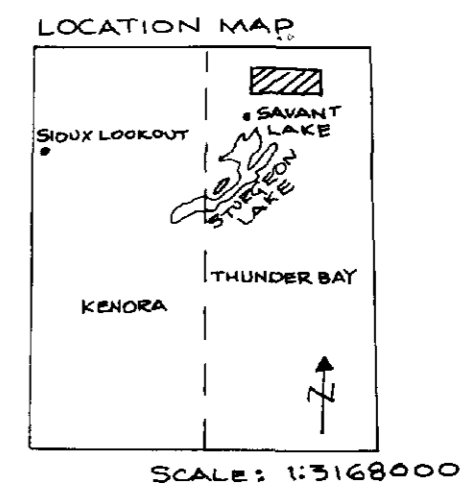
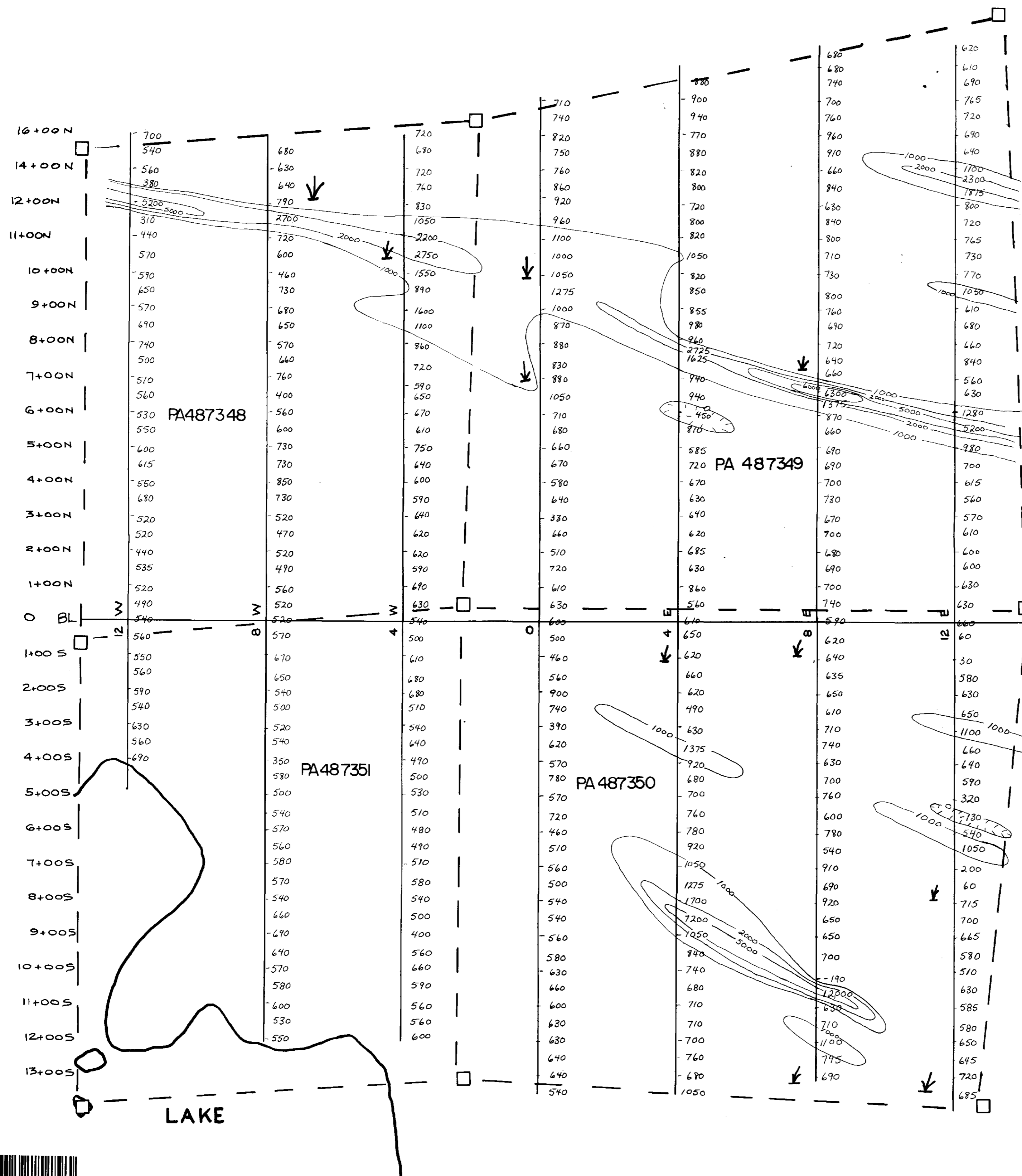
6M. 50° 19' 30"
 APPROX.
 90° 17' 05"

HEATHCOTE TWP. M-1747

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS
52 J/08 NW-0027-A1 #1
52 J/08 NW-0027-A1 #2

LOCATED IN THE MAP
CHANNEL IN THE FOLLOWING
SEQUENCE (X)





LEGEND	
INSTRUMENT	: FLUXGATE MF2-100
READINGS IN	: GAMMAS
METHOD	: MAGNETICS
STATIONS	: 50 FT.
DATUM POINT	:
HZ	:
HZ	:
IN PHASE	: ————
OUT OF PHASE	: X - - - X
PROFILE SCALE	:
CONTOUR INTERVAL	: 1000 FT.
	: CLAIM POST
	: SWAMPY GROUND

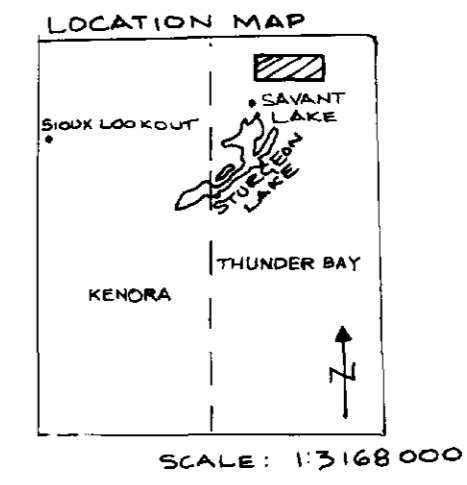
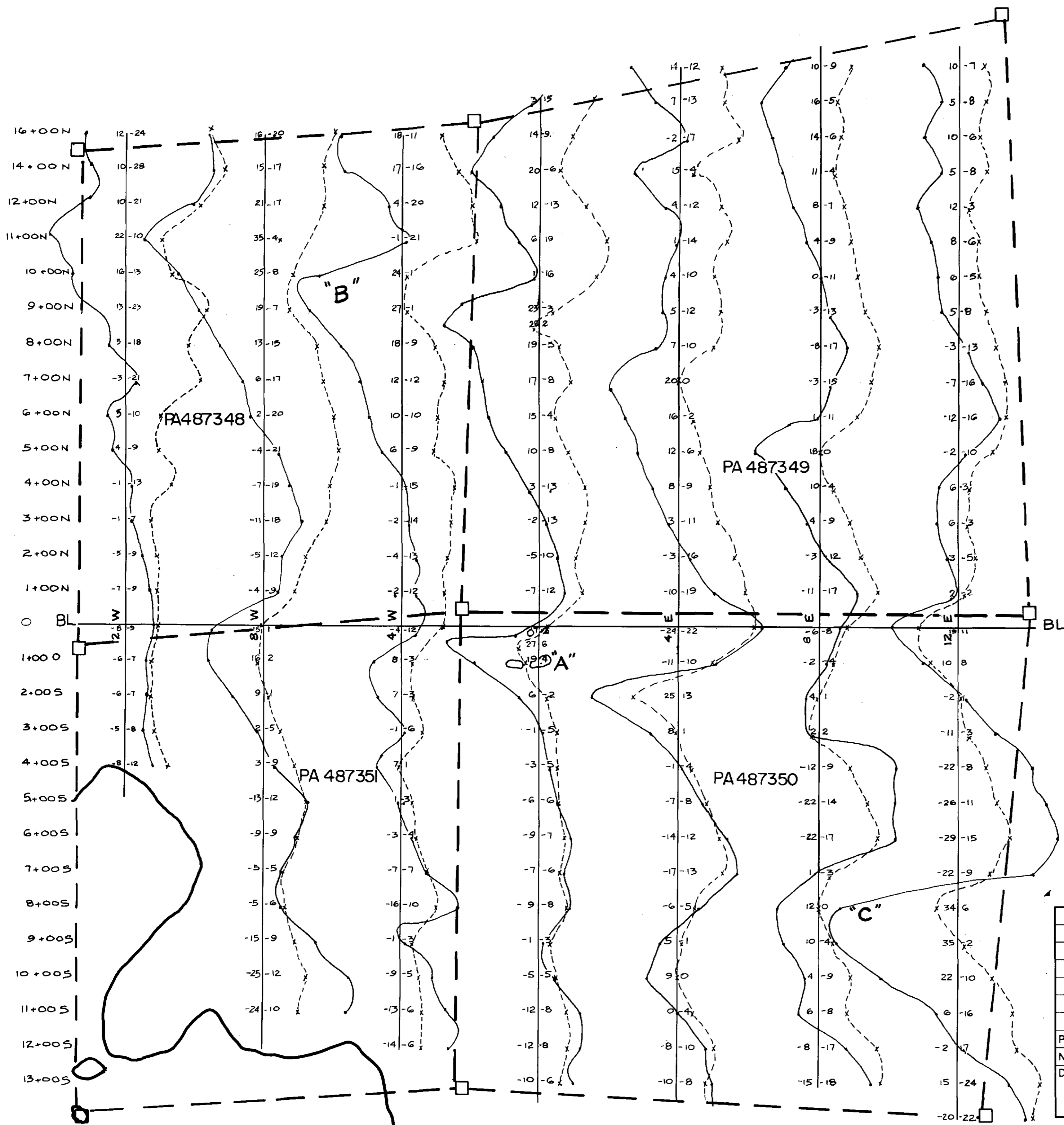
REVISED	MAGNETOMETER SURVEY	
	Project: Smye Twp.	Date: 1/22/82
PROJ. No.:	Surveyed By: K. B.	Scale: 1" = 200'
N.T.S.: 52 J 8	Drawn By: L. K.	
DWG. No.:	ABITIBI-PRICE	
	MINERAL RESOURCES DIVISION FIG. NO.	

52J108 NW-0027-A1 #1



52J08NW9158 2.5010 SMYE

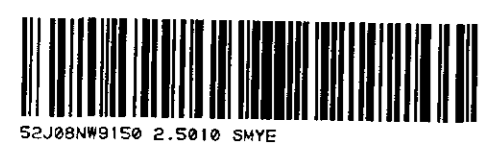
2.5010 Dept



LEGEND	
INSTRUMENT	EM-16 CUTLER MAINE
READINGS IN	HZ.
METHOD	IN LINE
STATIONS	100 FT.
DATUM POINT	HZ
	HZ
IN PHASE	—————
OUT OF PHASE	- - - - -
PROFILE SCALE	1" = 20'
CONTOUR INTERVAL:	
□	: CLAIM POSTS
○	: TRENCHES
A, B, C	: CONDUCTORS

REVISED	EM 16 SURVEY	
	Project: Smye Twp.	Date: 7/22/82
PROJ. No.:	Surveyed By: K. B.	Scale: 1" = 200'
N.T.S.: 52 J 8	Drawn By: L.K.	
DWG. No.:	ABITIBI-PRICE	
	MINERAL RESOURCES DIVISION FIG. NO.	

52 J/08 NW-0027-A1 #2



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depl