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Ministry of Natural Resources RECEIVED OCT 2 0 1983 RESIDENT GEULUGIST

M-1767

REPORT

ON

MAX-MIN II & EM-16 SURVEYS

BY

ABITIBI-PRICE INC.

MINERAL RESOURCES DIVISION

JUTTEN TOWNSHIP, ONTARIO

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

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May, 1982



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MAPS - EM-16

Max Min II 1777 Hz 888 Hz

#### INTRODUCTION

#### PURPOSE OF SURVEY

Systematic Max Min II EM, Magnetic and EM-16 Surveys were carried out over staked claims held by Abitibi-Price Inc. for the purpose of exploring for base metal massive sulphide deposits. Due to the severe cold, the magnetic survey results were distorted. This survey will be performed again at a later date.

### LOCATION & ACCESS

The area covered by this report is located in the Southeast Bay area of Savant Lake in northeastern Jutten Township. Access is by small plane from Sioux Lookout, Ontario.

#### PROPERTY

Twenty-two unpatented claims optioned from Ken Bernier, Sioux Lookout, Ontario in 1981, are held by Abitibi-Price Inc. These include:

PA 487209-214	inclusive	
PA 487319-322	inclusive	Jutten Township
PA 487323-328	inclusive	
PA 487348-351	inclusive	Smye Township
PA 487352-353	inclusive	Poisson Township

The technical data for the claims in Smye and Poisson Township is under separate cover.

#### GENERAL GEOLOGY

This claim group lies within a northeast-southwest striking band of intermediate to mafic metavolcanics. In previous years, United Macfie Mines Limited and Quebec Sturgeon Mines Limited (O.D.M. File 63-3008) have explored in the area. Trenching, stripping and several test pits were cleared in the carbonatized rock and numerous quartz veins in the search for gold and base metals. The quartz veins strike nearly EW, dip vertically and occur in sericite and schistose, chlorite bands up to 250 feet in width. The quartz is mineralized with sericite, carbonate, pyrite, chalcopyrite, arsenopyrite and some tourmaline.

O.D.M. File 2.611 indicates that Mid-North Engineering performed Sharpe Magnetometer and Ronka EM-16 Surveys over this general area. The electromagnetic readings available indicate that a major conductor or conductors must strike E-W under Savant Lake onto this property.

#### SURVEY PROCEDURE & INSTRUMENTATION

A Max-Min II EM unit manufactured by APEX Parametrics of Toronto was used to carry out the survey. A four hundred foot cable coil separation was used for the horizontal loop configuration. Two frequencies were observed ie: 1777 Hz and 888 Hz.

Lines at 400 foot spacing were cut in January, 1982 and were read with stations at 100 foot intervals. Profiles of the in phase and out of phase data are plotted at 1" = 20% on maps at the back of this report. The survey was performed in February and March, 1982.

A rental EM-16 unit from Geonics Limited was used for the reconnaissance EM survey. The survey was completed in March and April 1982 and the stations were read at 100 foot intervals.

The Max-Min II EM Survey was performed by Abitibi-Price personnel headed by Mort Verbiski of Buchans, Newfoundland and EM-16 Survey was completed by Ken Bernier, Sioux Lookout, Ontario.

#### STATISTICS

Approximately 16.5 miles of grid line was cut on the sixteen claims covered by these surveys.

Max-Min II EM readings were observed at 700 stations (x two frequencies)

and EM-16 readings were observed at 786 stations.

#### INTERPRETATION

#### Max-Min II EM

This claim group is weakly conductive. On the eastern portion of the grid, a moderate shallow conductor lies between lines E 4400 and E 6400, S 1000 and N 200. This northwest trending anomaly may be due to the presence of pyrite bearing sulphides. A second conductor lies between S 1500 and S 1000 on line E 1200 and trends west to line W 800 between S 400 and S 1200 and may also be caused by pyrite bearing sulphides. A third, weak, possible conductor lies on line W 5200 between S 200 and S 700 and extends to W 4000 between S 200 and N 400. Further detailed geophysics is necessary to pinpoint this anomaly.

#### EM-16

A large EM conductor is outlined in the central portion of claims PA 487321 and 487323 (Stillar Bay) and onto the land on lines W 2000 and W 2400. The response probably indicates a narrow vertical conductor.

A sharp anomaly occurs near the base line on lines W 2800 to W 2000. Although the conditions are swampy in this area, this may be a bedrock conductor.

A third anomalous zone extends from E 2400, S 500 to E 4000, S 900. As it occurs on the edge of a swamp, it may be due to conductive overburden.

#### CONCLUSIONS & RECOMMENDATION

Detailed geophysical follow-up is required on the Max-Min II conductors. A magnetic survey should be completed to assist in the geophysical interpretation. The known shear zones did not show any significant correlation with the EM-16 Survey possibly indicating that they are very weak and/or poorly

minaralized. A geological mapping program is recommended.

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## JUTTEN TOWNSHIP

EXPENDITURES

January - May 1982

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Linecutting	K. Bernier, Sioux Lookout	12 miles x 300 = \$ 3,600
		$4.5 \times 200 = 900$
Max Min II	Abitibi-Price personnel	$16.5 \times 300 = 4,950$
EM-16	K. Bernier, Sioux Lookout	$16.5 \times 100 = 1,650$

TOTAL EXPENDITURES

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\$11,100

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	Ontario	Resources	52 J/8 NW (36)	

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Our file: 2.4792

Mr. Albert Hanson Mining Recorder Ministry of Natural Resources P.O. Box 669 Sioux Lookout, Ontario POV 2TO

Dear Sir:

RE: Geophysical (Electromagnetic) Survey on Mining Claims PA 487209 et al in the Township of Jutten

The Geophysical (Electromagnetic) Survey assessment work credits as listed with my Notice of Intent dated September 7, 1983 have been approved as of the above date.

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

Yours very truly,

Mall il E.F. Anderson

Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone:(416)965-1380

S. Hurst:mc

Encl.

- cc: Abitibi-Price Inc Mineral Resources Division P.O. Box 21 Toronto-Dominion Centre Toronto, Ontario M5K 1B3
- cc: Resident Geologist Sioux Lookout, Ontario

Your file: 82-35

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Township or Area	TEN TOWNSHIP					
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328 (83/6)				the second s		

Sept 28/83

82-35

2.4792

1983 09 07

Mr. Albert Hanson Mining Recorder Ministry of Natural Resources P.O. Box 669 Sioux Lookout, Ontario POV 2TO

Dear Sir:

RE: Geophysical (Electromagnetic) Survey submitted on Mining Claims PA 487209 et al in the Township of Jutten

The Geophysical (Electromagnetic) Survey assessment work credits as allowed in the Notice of Intent dated August 25, 1983, were in error and have been amended as per the enclosed revised Notice of Intent. I sincerely apologize for any inconvenience this error may have caused.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-1380

S. Hurst:mc

Encl.

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

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



Ministry cf Natural Resources

Sept 16/83

Your file. 82-35

Our file: 2.4792

1983 08 25

Mr. Albert Hansc Mining Recorder Ministry of Natural Resources P.O. Box 669 Sioux Lookout, Ontario POV 2TO

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

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

Yours very truly,

E.F. Anderson Director

Land Management Branch

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

S. Hurst:mc

Encls:

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- cc: Abitibi-Price Inc Mineral Resources Division P.O. Box 21 Toronto-Dominion Centre Toronto, Ontario M5K 1B3
- cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario



Ministry of Natural Resources Notice of Intent for Technical Reports 1983 08 25 2.4792 82-35

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim, remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Comm. Her and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

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	L	Section, Room 6462, Whitney Block.	(Tel: 5-1380)	. I
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1,320, 06, 00

Hr. Albert Hanson Mining Recorder Ministry of Natural Resources P.O. Box 669 SIOUX LOOKOUT, Ontario POV 2TO

Dear Sir:

Re: Geophysical survey submitted on Mining Claims 7487209 et al in the Townships of Jutten, Smyre, Poisson

Two EM surveys, a MaxHin and a VLF survey, were submitted to this office for assessment for 40 and 20 days respectively, which agrees with the Technical Data Statement that was also supplied. However, the Report of Work refers to one EM survey and a magnetometer survey. Through conversation with Abitibi-Price it was determined that there is in fact a separate submission for the magnetometer survey and that the Report of Work should have read two EM surveys.

Please contact the recorded holder, resolve this matter and provide a corrected copy of the work report for our approval.

Yours very truly,

E.F. Anderson Director Land Management Branch

Hhitney Block, Room 6450 Queen's Park Terretu, Ontario M7A 193 Phone 416/955-1380

D.Kinvig:etb

cc: Abitibi-Price Inc. Mineral Resource: Division P.O. Box 21 T-D Centre Toronto M5K 183 May 25, 1983

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

Attention: Deborah McCombe

Dear Ms. McCombe:

RE: Geophysical Survey submitted on Mining Claims 487209 et. al in the Townships of Jutten, Smye, and Poisson

On the Technical Data Statement for the above-mentioned survey you asked for 40 days for Max Min survey plus linecuting credits, and 20 days for an additional E.M. survey. Yet on the Report of Work submitted Marcn 26, 1982 to the Mining Recorder you recorded credits for a magnetic survey in addition to the 40 credits for the E.M. survey. You have provided us with a report and maps for Max Min survey and an E.M. 16 survey.

Please clarify whether or not the recording of a magnetometer survey on the Report of Work was incorrect. It it was, we shall proceed to assess the two E.M. surveys as submitted. If you did do a magnetometer survey, please inform me when you submitted the report and maps on which file it has been recorded in this office.

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

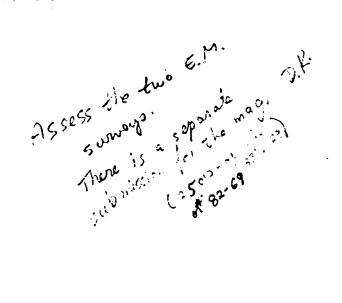
Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

D. Kinvig:mc

cc: Mining Recorder S<sub>ioux</sub> Lookout, Ontario



2.4792



ABITIBI-PRICE MINERAL RESOURCES, Toronto-Dominion Centre, Toronto, Canada M5K 1B3 (416) 866-4610

March 8, 1983

Mr. E.F. Anderson Director Land Management Branch Ministry of Natural Resources Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 RECEIVED

MAR 1 4 1983

MINING LANDS SECTION

Dear Mr. Anderson:

RE: Geophysical (Electromagnetic and Magnetometer) Survey submitted on Mining Claims PA 487323 et al in the Townships of Jutten, Smye and Poisson. Your file: 2.475.

Enclosed please find our revised EM-16 maps for the above survey, complete with VFL data and legend, as requested. Also enclosed are the plans for the Max-Min Surveys for the above which were returned to us by mistake.

Yours truly,

ABITIBI-PRICE MINERAL RESOURCES

foreine Kelly.

Laraine Kelly Drafting Assistant

/lak

1983 02 28

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

## Attn: A.A. McCombe

Dear Madam:

RE: Geophysical (Electromagnetic and Magnetometer) Survey submitted on Mining Claims PAL 487323 et al in the Townships of Jutten, Smye & Poisson

Enclosed are the plans, in duplicate, for the i ove mentioned survey. In order to complete your submission we require the following:

a) VLY data needs profiling;

b) VLF data needs legend.

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

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ont rio M7A 1W3

D. Wice:jh

Encls.

cc: Mining Recorder Patricia Mining Division Siouz Lookout, Ontario 2.4792

	Ministry of	Geotechnical		File
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1982 05 26

Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 257

Attention: Mining Recorder

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims PA 487209 et al, in the Townships of Jutten, Poisson and Smye.

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

Yours truly,

E.F. Anderson Director Land Mangement Branch

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

J. Skura/amc

cc: Abitibi-Price Inc. Toronto, Ontario Attention: D.A. McCombe , 2.4792



ABITIBI-PRICE MINERAL RESOURCES, Toronto-Dominion Centre, Toronto, Canada M5K 1B3 (416) 866-4610

May 25, 1982

Mr. F. Matthews Ministry of Natural Resources Mining Lands Section Land Management Branch Room 6451 Whitney Block Queen's Park, Ontario M7A 1W3

Dear Mr. Matthews:

Re: Abitibi-Price Inc. Claims - Jutten Township et al, Ontario

Please find enclosed "A Report on Max Min II and EM-16 Surveys by Abitibi-Price Inc., Mineral Resources Division, Jutten Township et al, Ontario, May 1982", by D.A. McCombe.

If you require any additional information, please contact me (416-366-4608).

Yours truly,

ABITIBI-PRICE MINERAL RESOURCES

M'Combe.

Deborah A. McCombe Geologist

# RECEIVED

HAY 25 1982

MINING LANDS SECTION

DAM/lak

Enclosure



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# **Ministry of Natural Resources**

File 2. 4792 Suplicates

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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

Type of Survey(s) <u>Max-Min II, EM-16</u>	
Township or Area Jutten, Poisson, Smye	MINING CLAIMS TRAVERSED
Claim Holder(s) Abitibi-Price Inc. Mineral Resources Division	
P.O. Box 21 T-D Centre Tor., Ont. M5K 1B3	
Survey Company_Abitibi-Price personnel	PA 487209 487210
Author of Report D.A. McCombe	(prefix) (number)
•	487211
Address of Author Abitibi-Price Inc. see above	487212
Covering Dates of Survey Jan. 1982 - May 1982 (Encutting to office)	
Total Miles of Line Cut_16.5 miles	487319
Total Miles of Line Cut_10.5 miles	487320
SPECIAL PROVISIONS DAYS	487322
CREDITS REOLUCTED	487323
Ocophysical	487324 487325
-Electromagnetic 40	
ENTER 40 days (includes line cutting) for first	487327
inte cutting) for first	487328
survey. –Rad.ometric	487348
ENTER 20 days for each -Other 20	487349
additional survey using Geological	
same grid	487351
Geochemical	
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	487353
MagnetometerElectromagnetic Radiometric	
DATE: May 25, 1982 SIGNATURE: Author of Report of Agent	
Res. GeolQualifications	RECEIVED
Previous Surveys	
File No. Type Date Claim Holder	1 to Y 2 C 2 Yot 1
	MINING LANDS SECTION
	TOTAL CLAIMS22

If space insufficient, attach list

# GEOPHYSICAL TECHNICAL DATA

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Y <u>GRAVITY</u> ELE	Frequency Parameters Instrument Scale const Corrections Base station Elevation a Instrument Method	888, measured ant s made n value an ccuracy Curacy Time 1 On tin Off tir	1777 Hz In pr In pr In pr In pr In pr In pr In pr In pr In pr In pr	ixed transmit EM-16-C nase and qu	ter Shoot b <u>utler Maine</u> (specify V.L.F. st <u>adrature</u>	ation)  ation  Frequency  Frequency Range	Domain		
Y <u>GRAVITY</u> ELE	Frequency. Parameters Instrument Scale const Corrections Base station Elevation a Instrument <u>Method</u> Parameters	888, measured ant s made n value an ccuracy Curacy Time I On tin Off tir Delay Integra	1777 Hz In pr In pr	ixed transmit EM-16-C hase and qu	ter Shoot b hutler Maine (specify V.L.F. st adrature	ation)	Domain		
Y <u>GRAVITY</u> ELE	Frequency. Parameters Instrument Scale const Corrections Base station Elevation a Instrument <u>Method</u> Parameters	888, measured ant s made n value an ccuracy Curacy Time I On tin Off tir Delay Integra	1777 Hz In pr In pr	ixed transmit EM-16-C hase and qu	ter Shoot b hutler Maine (specify V.L.F. st adrature	ation)	Domain		
	Frequency. Parameters Instrument Scale const Corrections Base station Elevation a Instrument Method Parameters	888, measured ant s made n value an ccuracy Curacy Time I On tin Off tir Delay Integra	1777 Hz In ph In p	ixed transmit EM-16-C hase and qu	ter Shoot b <u>utler Maine</u> (specify V.L.F. st <u>adrature</u>	ation)	Domain		
Y <u>GRAVITY</u> ELE	Frequency_ Parameters Instrument Scale const Corrections Base station Elevation a Instrument Method Parameters Power Electrode a	888, measured ant s made n value an ccuracy Ccuracy D Time I - On tin - Off tir - Delay - Integra	1777 Hz In pr	ixed transmit EM-16-C hase and qu	ter Shoot b hutler Maine (specify V.L.F. st adrature	ation)	Domain		

