

32004SE0259 2.3513 HEARST

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### REPORT ON VLF-EM SURVEY

#### Hearst Township, Ontario

OCT 2 2 1980

MINING LARGE SECTION

# Introduction

A VLF-EM survey was carried out in Hearst Township over cut lines. The results are shown on the enclosed plan.

# Location, Access and Ownership

The claims covered by the survey are located in the south-central part of Hearst Township, District of Temiskaming, Ontario. The claims are numbered L476794 to 476797; L522769 to 522782; L522787 to 522789; L522792 to 522793; L532256 to 532257; L565043 to 565044; all inclusive. They are recorded in the name of Superior Northwest Inc., Box 1110, Sault Ste. Marie, Ontario.

The claims are crossed by Highway 624 about 6 miles south of Larder Lake, Ontario. Logging roads and trails give access to the claims from the highway.

#### Previous Exploration

There has been a considerable amount of surface prospecting in the past. A number of deep pits were noted during the survey, but no information is available on when they were dug or what if anything was found.

#### Geology

The Property is underlain by a volcanic-sedimentary sequence of rocks, cut by felsic to mafic intrusives. A large part of the claims are covered by extensive drift. A volcanic sedimentary contact approximately parallels the baseline west of the highway, but has changed strike to a north-north-east direction east of the highway. The intervening area is covered by extensive drift.

#### Survey Procedure

A grid line was laid out across the property with a baseline running about S 60° E across the property. Crosslines were cut perpendicular to the baselines at 400 foot intervals. A VLF-EM survey was carried out using a Crone Radem instrument set to the signal from Annapolis, Maryland (21.4 KHz). Readings were taken at 100 foot intervals using the procedure outlined in Appendix I.

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# Results and Conclusions

A number of cross-overs have been located which should be followed up by ground prospecting and additional geophysical surveys. There appears to be a strong anomaly along the sedimentvolcanic contact, with a number of other cross-overs, the cause of which is not immediately apparent.

Respectfully submitted

ju hace

October 17, 1980

Robert A. MacGregor, P. Eng.



32D04SE0259 2.3513 HEARST

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March 23, 1981

Mr. George J. Koleszar Mining Recorder

Ministry of Natural Resources 4 Government Road East P.O. Box 984 Kirkland Lake, Ontario P2N 1A2

Dear Sir:

Re: Mining Claims L.522792-93 and L.545062-63 in Hearst Township

Please disregard my letters of March 2, 1981 concerning mining claimss L.522792-93 and L.545062-63 in Hearst Township. These claims have been covered by surveys as explained below.

The statement of magnetometer credits for claims L.476794 et al which accompanied my letter of February 18, 1981 (file 2.3513) should be amended to show that all of the claims are also entitled to 20 days electromagnetic credits. Furthermore, mining claims L.578356 and L.578357 should be added to that statement as they also are entitled to 20 days magnetometer and 20 days electromagnetic credits.

Enclosed is a list of approved credits for an electromagnetic survey that was performed between July and October, 1980 and which also covers claims L.476794 et al, including those claims listed in my first paragraph above.

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

FVM/RS

Enc.

cc: Superior Northwest Inc. Sault Ste. Marie, Ontario 2.3513 2.3705

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Ontario Ministry of Natural Resources

File		
	2.	3513

**Recorded Holder** 

Township or Area

Superior Northwest Inc.

Township of Hearst

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical       20         Electromagnetic       20         Magnetometer       days         Radiometric       days         Induced polarization       days         Section 86 (18)       days         Geological       days	L.476794 to L.476797, incl. L.522769 to L.522782, incl. L.522787 to L.522789, incl. L.522792-93 L.532256-57 L.565043-44 L.545062-63
Geochemical days Man days 🗌 Airborne 🗆 Special provision 🕅 Ground 🕅	
<ul> <li>Credits have been reduced because of partial coverage of claims.</li> <li>Credits have been reduced because of corrections to work dates and figures of applicant.</li> </ul>	(Survey performed July - October, 1980)
Special credits under section 86 (15a) for the followin	g mining claims
No credits have been allowed for the following mining	Insufficient technicel date filed
	Cessary in Order that the total number of approved assessment days recorded on

each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 86(18)-60:

Superior Northwest Inc.

603 Queen St. East P.O. Box 1110 Sault Ste. Marie Ontario, Canada P6A 5N7



R. A. MacGregor / President Telephone: 705/949-5928

March 16, 1981

E.F. Anderson Director Land Management Branch Ministry of Natural Resources Whitney Block, Room 6450 Queen's Park TORONTO, Ontario M7A 1W3 RECEIVED Land Management Branch CIRCULATE COMMERTS PLEASE BY MAR 20 1981 E. F. ANDERSON J. R. MORTON J. C. SMITH W. GOOD V. LEONARD J. M. SMALL RETURN TO J2, 6450

<u>RE:</u> Claims L 545062-63 L 565043-44 L 532256-57

Dear Mr Anderson,

The Geophysical (Electromagnetic) report and maps for the above claims is included with the report submitted for L 476794 et al in Township of Hearst which you gave notice of having received on October 22, 1980 (file 2.3513). I trust this evidence is satisfactory and that you will reinstate the assessment work credits which were cancelled for L545062-63.

Yours very truly

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RAM/1g

R.A. MacGregor

Ministry of Natural	Notification of recording
Resources	of assessment work credits
Recording Office 4 Gov't Road East Kirkland Lake, Onta P2N 1A2 Lands Administration Branch Mining Lands Section Ministry of Natural Resources Room 1617, Whitney Block Queen's Park, Toronto M7A 1W3	RECEVIED NOV - 4 1980 MINING LANDS SECTION
Date of recording of work:0	ctober 24, 1980
Recorded holder:L	ucien Lacasse
Address:L	arder Lake, Ontario POK 1LO
Township or Area:	earst

Type of survey and number Assessment days credit per c		Mining claims
Geophysical VLF 20	days	L 5450 <b>6</b> 2, L 545063
Magnetometer	days	<ul> <li>A second sec second second sec</li></ul>
Radiometric	days	
Induced polarization	days	
Section 86 (18)	days	
Geological	days	
Geochemical	days	
Man days 🗋	Airborne	
Special provision		A

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
- Reports and maps are being forwarded to the Lands Administration Branch with this letter.

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Mining recorder c.c. Lucien Lacasse

c.c.Robert A. MacGregor 134 Palace Drive Sault Ste. Marie,Ont. P6B 5H5

Moturol	Noti	fication of recording
Natural Resources	ofe	ssessment work credits
Recording Offic 4 Gov't Road Ea Kirkland Lake, P2N 1A2	e . st .	
Lands Administration Branch Mining Lands Section Ministry of Natural Resources Room 1617, Whitney Block Queen's Park, Toronto M7A 1W3		RECEIVED NOV - 4 1980 MINING LAND SECTION
Date of recording of work:	October 24, 198	0
Recorded holder:	Robert A. MacGr	egor
Address:	P.O. Box 1110	
Township or Area: Type of survey a Assessment days	nd number of	e, Ontario, P6A 5N7 Mining claims
Geophysical Electromagnetic	20 days	L 565043, 565044
Radiometric	days	
Induced polarization	days	
	days	
Section 86 (18)		
Section 86 (18)	days	
Geological		

- L - Reports and many are being forwarded to the Land

Ministry of Natural	Notification of	of recording	
Resources	of assessmer	nt work credits	
Recording Office	•	· .	
4 Gov't Road East KIRKLAND LAKE, Ontario P2N 1A2		RECE	IVED
Lands Administration Branch		OCT 2 (	B <b>1980</b>
Mining Lands Section Ministry of Natural Resources Room 1617, Whitney Block Queen's Park, Toronto M7A 1W3		MINING LAN	-
Date of recording of work:	October 20.	1980	· ·
Recorded holder:Robe		) 	
Recorded holder:Robe	rt A. Mac Gregor	RIE, Ontario P6B 5H5	
Recorded holder:Robe	rt A. Mac Gregor 0, SAULT STE, MA	RIE, Ontario P6B 5H5	· · · · · · · · · · · · · · · · · · ·
Recorded holder: <u>Robe</u> Address: <u>P.O. Box 111</u>	rt A. Mac Gregor 0, SAULT STE, MA HEARST TOWNS	RIE, Ontario P6B 5H5	
Recorded holder: <u>Robe</u> Address: <u>P.O. BOX 111</u> Township or Area: Type of survey and number of	rt A. Mac Gregor 0, SAULT STE, MA HEARST TOWNS	RIE, Ontario P6B 5H5 HIP	
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Recorded holder:       Robe         Address:       P.O. Box 111         Township or Area:       Type of survey and number of Assessment days credit per classessment days credit per classessment days credit per classes         Geophysical       Electromagnetic       VLF       2         Magnetometer	rt A. Mac Gregor 0, SAULT STE, MA HEARST TOWNS 1 1 1 1 1 1 1 1 1 1 1 1 1	RIE, Ontario P6B 5H5 HIP Mining claims	
Recorded holder:       Robe         Address:       P.O. Box 111         Township or Area:	rt A. Mac Gregor 0, SAULT STE, MA HEARST TOWNS 1 1 1 1 1 1 1 1 1 1 1 1 1	RIE, Ontario P6B 5H5 HIP Mining claims	
Recorded holder:       Robe         Address:       P.O. Box 111         Township or Area:	rt A. Mac Gregor 0, SAULT STE, MA HEARST TOWNS 1 1 1 1 1 1 1 1 1 1 1 1 1	RIE, Ontario P6B 5H5 HIP Mining claims	

to the Lands Administration Branch, Toronto within 6D days from the date of recording of this work.

## February 18, 1981

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Mr. George J. Koleszar Mining Recorder Ministry of Natural Resources 4 Government Road East P.O. Box 984 Kirkland Lake, Ontario P2N 1A2

Dear Sir:

The Statement of Credits issued with a Notice of Intent dated February 12, 1981 for Mining Claim L.476794 et al, in Hearst Township was incorrect.

Enclosed is a revised Statement which has been <u>approved</u> herewith. Please inform the recorded holder and so indicate on your records.

Yours very truly,

E.F. Anderson Director Lands Administration Branch

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

Bncl.

- cc: Superior Northwest Inc. Sault Ste. Marie, Ontario
- cc: Colex Explorations Inc. Sault Ste. Marie, Ontario
- cc: Mr. G.H. Ferguson, Q.C. Mining & Lands Commissioner Toronto, Ontario
- cc: Resident Geologist Kirkland Lake, Ontario

Ontario

Ministry of

Recording Office 4 Gov't Road East Kirkland Lake, Ontario

Natural Resources

P2N 1A2

# RECEIVED

AHG 2 6 1080

MINING LANDS SECTION

Notification of recording

of assessment work credits

Supervisor, Projects Unit Mining Lands Section Ministry of Natural Resources Room 1617, Whitney Block Queen's Park, Toronto M7A 1W3

Date of recording of work:	August	18.	1980	•	
Date of recording of work.		ş.			

Recorded holder: SUPERIOR NORTHWEST INC.

Address: P.O. Box 1110, SAULT STE, MARIE, Ontario P6A 5N7

Township or Area: HEARST TOWNSHIP

Type of survey and numb Assessment days credit pe		Mining claims
Geophysical		
Electromagnetic20	days	L 522769-70-71-72-73-74-75-76- 77-78-79-80-81-82
Magnetometer	days	L 522787-88-89 L 522792-93
Radiometric	days	A second se
Induced polarization	days	
Section 86 (18)	days	
Geological	days	
Geochemical	days	
Man days \Box	Airborne	
Special provision	Ground []	
Notice to recorded holder:	,	//h
<ul> <li>Survey reports and maps in dupli mitted to the Projects Unit, Toror from the date of recording of this v</li> <li>Populational reports of the source of t</li></ul>	nto within 60 days vork.	Geofge Koleszar Acting Mining recorder c.c. Mr. Robert MacGregor

Ministry of Natural Resources

march 5/81

Your file:

Our filey 2.3513

February 12, 1981

Mr. George J. Koleszar Mining Recorder Ministry of Natural Resources 4 Government Road East P.O. Box 984 Kirkland Lake, Ontario P2N 1A2

#### 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.

Yours very truly,

E.F. Anderson Director Lands Administration Branch Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1316

/RS

- cc: Superior Northwest Inc. Sault Ste. Marie, Ontario
- cc: Colex Explorations Inc. Sault Ste. Marie, Ontario PLB 559
- cc: Mr. G.H. Ferguson, Q.C. Mining & Lands Commissioner Toronto, Ontario

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Ministry of Natural Resources Notice of Intent for Technical Reports Bahwásyy 12, 1981 File: 2.3513

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 Commissioner 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 Administration 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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Recorded Holder Superior No	orthwest Inc.
Township or Area	
Hearst Town	nship
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic 20 day	L.522776
Magnetometer day	L.522779
Radiometric day	L.565043
Induced polarization day	s L.532257
Section 86 (18) day	s and with
Geological day	$\gamma_{*}$
Geochemical day	s
Man days 🗌 Airborne 🗌	
Special provision X Ground X	www.81
<ul> <li>Credits have been reduced because of part coverage of claims.</li> <li>Credits have been reduced because of correction to work dates and figures of applicant.</li> </ul>	et t 19 qui
to work dates and rightes of applicant.	
Special credits under section 86 (15a) for the follow	ing mining claims
W	M
No credits have been allowed for the following minin	g claims
X not sufficiently covered by the survey	Insufficient technical data filed
L.476794 to 797, incl.	L.532256
L.522769 to 775, incl.	L.522777-78
L.522781 L.522787 to 789, incl. L.522792 L.522793	L.545062-63
The Mining Recorder may reduce the above credits if n bach claim does not exceed the maximum allowed as	ecessary in order that the total number of approved assessment days recorded on follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 86(18)-60:

mr: 2.35/3 GEOLOGICAL BRANCH le zo 19 80 Mr. R. Barlow Date of Approval Signature Ky Baland Comments: \_\_\_\_\_/ andra an fuar an ar an ar an ar an an an an ar an a Mr. S. V. Burr ' Date of Approval 19 Signature Comments: Dr. I. Thomson Date of Approval 19 Signature: Comments:

RETURN TO - MR. F. W. MATTHEWS, MINING LANDS SECTION - WHITNEY BLOCK, ROOM 6450

1980 01 05

Superior Northwest Inc. P.O. Box 1110 Sault Ste. Marie, Ontario P6A 5N7

Dear Sir:

Enclosed is a geophysical survey map in duplicatecovering seven (7) mining claims nos. L. 522776 et al in Hearst Twp. Please have Hr. R.A. MacGregor date, sign and return these maps to this office.

1 note that you have also requested 20 days electromagnetic credits for mining claims L. 476794 to 97 inclusive, 522769 to 75 inclusive, 522781, 522787-98-89, 522792-93 yet these claims were not covered as may be seen from the enclosed maps. Please clarify.

For further information, if required, please contact Mr. F.W. Matthews (965-6918).

Yours very truly,

E.F. Anderson Director Land Management Branch

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

SHiie

cc: Mr. G. Koleszar Acting Mining Recorder Kirkland Løke, Ontario 2,3513

Superior Northwest Inc.



603 Queen St. East P.O. Box 1110 Sault Ste. Marie Ontario, Canada P6A 5N7



JAN 2 1 1981

MINING LANDS SECTION

January 19, 1981

R. A. MacGregor / President

Telephone: 705/949-5928

E.F. Anderson Director LAND MANAGEMENT BRANCH Whitney Block Room 6450 Queen's Park Toronto, Ontario M7A 1W3 RECEIVED Land Management Branch CHRCULATE COMMENTS PLEASE BY JAN 21 1981 E. F. ANDLRSON J. R. MORTON J. C. SLATH W. GOOD V. LEONARD J. D. CHARD

Dear Sir:

Please find enclosed two signed copies of correct geophysical survey maps for L522776 et al Hearst Twp. A copy of an incomplete map was apparently sent out in error.

Yours very truly

SUPERIOR NORTHWEST INC.

R.A. MacGregor, President

RAM/jh

Encl.



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Ministry of Natural Resources

Your file:

Our file: 2,3513

1981 01 05

· 11.0 3 · 2013

Superior Northwest Inc. P.O. Box 1110 Sault Ste. Marie, Ontario P6A 5N7

Dear Sir:

Enclosed is a geophysical survey map in duplicate covering seven (7) mining claims nos. L. 522776 et al in Hearst Twp. Please have Mr. R.A. MacGregor date, sign and return these maps to this office.

I note that you have also requested 20 days electromagnetic credits for mining claims L. 476794 to 97 inclusive, 522769 to 75 inclusive, 522781, 522787-88-89, 522792-93 yet these claims were not covered as may be seen from the enclosed maps. Please clarify.

For further information, if required, please contact Mr. F.W. Matthews (965-6918).

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

J~SH:ie

cc: Mr. G. Koleszar Acting Mining Recorder Kirkland Lake, Ontario 1980 00 22

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2.3513

Mr. George Koleszer Mining Recorder Ministry of Natural Resources 4 Government Road East P.O. Box 984 Kirkland Lake, Ontario P2N 1A2

Dear Sir:

We have received maps and reports for a Geophysical (Electromagnetic) survey submitted under Special Provisions [credit for Performance and Coverage) on mining chaims L476794 et al in the Township of Hearst.

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

Yours very truly

E.F. Anderson Dirdctor Land Management Branch

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

/js

- cc: Superior Northwest Inc. Sault Ste. Marie, Ontario
- cc: Colex Explorations Inc. Sault Ste. Marie, Ontario

R. A. MACGREGOR, P.ENG.

#### CERTIFICATE

- I, Robert A. MacGregor, certify:
- 1. I am a Mining Engineer residing at 134 Palace Drive, Sault Ste. Marie, Ontario. I have worked as a mining engineer and geologist for the past 17 years.
- 2. I am a member of the Association of Professional Engineers of the Province of Ontario and a member of the Canadian Institute of Mining and Metallurgy.
- 3. I attended Queen's University for two years in the Mining-Geology course.
- 4. I personally carried out or supervised the field work on the subject claims.

Oct 17/80

Date





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**OFFICE USE ONLY** 

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# **Ministry of Natural Resources**

File.

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 CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Su	rvey(s)	VLF-EM				
Township o	or Area	Hearst			MINING CLAIN	AS TRAVERSED
Claim Hold	er(s) <u>Su</u>	perior N	orthwest Inc.			merically
Author of I	ReportR	A. MacG	-		<b>1.476.794</b> (prefix) <b>L476795</b>	L522793 (number)
			e Drive, S.S. Marie			T.532257
Covering D	ates of Surv	ey	(linecutting to office)	0		/
		t1			J.4.7.6.7.9.7	L565.04.3
, 					L522769	L565044 - 4
	. PROVISIO S REQUEST		DAYS Geophysical per claim		L5227.7.0	L545062
					L522771	1545063
ENTER 4	10 days (inc	ludes	-Electromagnetic 20	-		
line cutti	ng) for first		-Magnetometer	-		
survey.			–Radiometric	-		
	20 days for		-Other	-	1.5227.74	
additiona same grid	l survey usi	ng	Geological	-		
same griu	•		Geochemical	-	£5227.7.5	
AIRBORNI	E CREDITS	(Special provi	sion credits do not apply to airborne survey	6)	1.522776	- 4
Magnetome	ter	Electromag	netic Radiometric			
		(enter d	ays per claim)		L52277.7	• • • • • • • • • • • • • • • • • • • •
DATE:	ct 17/8	SIGNA	TURE: Macety		L522778	
			Author of Report of Agent		L522779	10 2
					L522.7.7.9	
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Res. Geol		Qualit	ications 2,1102			z ¥
Previous Su						
File No.	Туре	Date	Claim Holder		L522782	
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•••••				•••••	TOTAL CLAIMS	_27
						أنجاب بالشراط معاديا بتجريب بالمحد ويتني متعدي

# GEOPHYSICAL TECHNICAL DATA

Number of Stations	238	Number of Readings	238
Station interval	100 feet	Line spacing	400 feet
Profile scale	1" = 40 <sup>0</sup>	• • • • • • • • • • • • • • • • • • •	
Contour interval			
Instrument			
Accuracy – Scale co		·	
Base Station check-i			
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Instrument	Crone Radem		
Coil configuration _	N/A		·
Coil separation			
Accuracy	<u>+ ko</u>		
Method:	😨 Fixed transmitter	□ Shoot back □ In line	Parallel line
		olis, Maryland (21. (specify V.L.F. station) sultant Field	
Parameters measured	Dip Angle of the Rep	sultant Field	
Parameters measured Instrument Scale constant	Dip Angle of the Rep	sultant Field	
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INDUCED POLARIZATION

State of the Second