

42A04NW0002 2.12929 REEVES

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MINING LANDS SECTION

*REPORT
on the
MAGNETIC SURVEY
on the
Reeves Joint Venture Property
of
AMERICAN BARRICK RESOURCES CORPORATION
and
GOLDROCK RESOURCES INC.
and
GLEN AUDEN RESOURCES LIMITED
Sewell and Reeves Townships
Porcupine Mining Division, Ontario
by
Richard Lachapelle, B.Sc.Ing.Jr.
November, 1989*

2.12929

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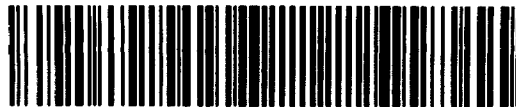


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ABSTRACT

During the months of November and December, 1988, a geophysical crew from R.S. Middleton Exploration Services Inc. completed a magnetic survey on the Reeves Joint Venture Property for American Barrick Resources Corporation, Goldrock Resources Inc. and Glen Auden Resources Limited in Sewell and Reeves Townships, Porcupine Mining Division, Ontario.

The magnetic survey and previous induced polarization survey delineated possible sulphide horizons at or near an interpreted contact between mafic units and iron-rich mafic units.

The recommended work is identical to that proposed by the previous induced polarization survey.

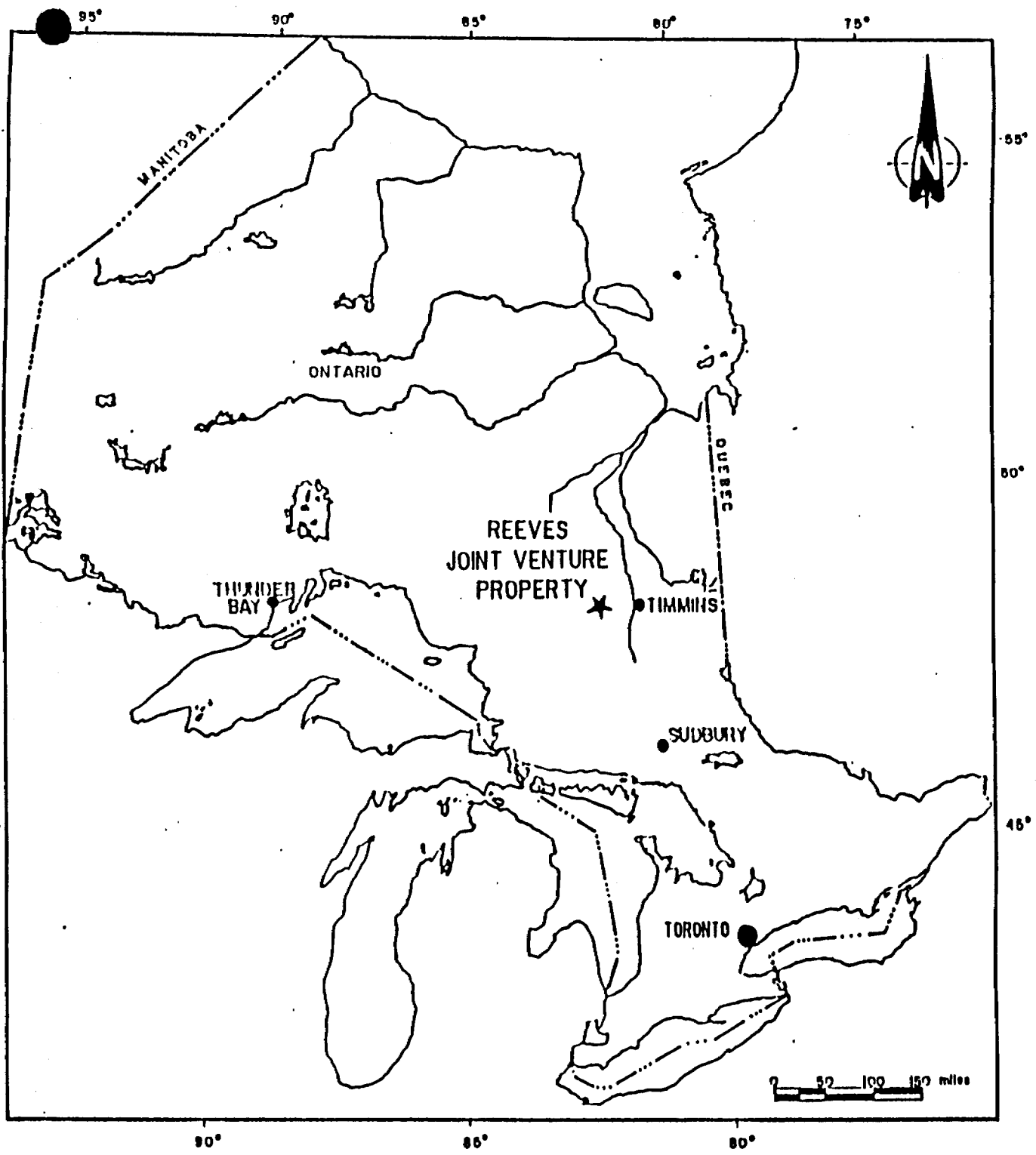
INTRODUCTION

From November 24 to December 15, 1988, a geophysical crew from R.S. Middleton Exploration Services Inc. of Timmins, Ontario completed a magnetic survey on the Reeves Joint Venture Property in Sewell and Reeves Townships, Porcupine Mining Division, Ontario for American Barrick Resources Corporation of 24 Hazelton Avenue, Toronto, Ontario; Goldrock Resources Inc., and Glen Auden Resources Limited both of Suite 301, 121 Richmond Street West, Toronto, Ontario.

This survey was intended as a follow-up to previous magnetic (Burk, 1988a) and induced polarization (Lachapelle, 1989) surveys as well as a stripping and trenching program (Burk, 1988b) conducted on 66 claims of the property, with the objective of delineating potentially auriferous zones within mafic volcanic rocks. The magnetic survey data enhanced the understanding of the geology of the property but only vaguely defined structural zones which have been recognized by geological mapping.

LOCATION AND ACCESS

The Reeves Joint Venture (RJV) property encompasses approximately 6,850 hectares broadly centred on the four contiguous corners of Reeves, Sewell, Penhorwood and Kenogaming Townships, some 55 kilometers west of Timmins, Ontario (Figures 1 and 2). Access to the property is via Highway 101 which skirts the northern boundary of the property, and the Penhorwood logging road. A network of secondary logging roads allows good access to about three quarters of the property.



Robert S. Middleton

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.
	for GOLDROCK RESOURCES INC./
	GLEN AUDEN RESOURCES LTD. J.V.
	File
	PROPERTY LOCATION
	MAP
	Fig. 1
	Date: Oct 67 Scale: 1" = 100mi. [17.1.1]



REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.	
	for	GOLDROCK RES. INC./ GLEN AUDEN RES.
	Title	PROPERTY LOCATION - LOCAL
		Fig. 2
Date: MAR/88	Scale:	N.T.S.
Drawn: S.S.	Approved:	File: M-223

CLAIM GROUP

The magnetic survey covers 76 of the 645 contiguous un-patented claims of the Reeves Joint Venture property in Sewell, Reeves, Penhorwood and Kenogaming Townships, Porcupine Mining Division, Ontario.

The work was performed on the following claims:

CLAIM NUMBER	TOWNSHIP	NO.	DUE DATE
724554	Sewell	1	December 15, 1989
755312-314 incl.	Sewell	3	December 15, 1989
755318-319 incl.	Sewell	2	December 15, 1989
798200-203 incl.	Sewell	4	December 15, 1989
804622	Sewell	1	December 15, 1989
826331	Sewell	1	December 15, 1989
831625-626 incl.	Sewell	2	December 15, 1989
848912	Sewell	1	December 15, 1989
848915	Sewell	1	December 15, 1989
867633-634 incl.	Sewell	2	December 15, 1989
893525-526 incl.	Sewell	2	December 15, 1989
901327-337 incl.	Reeves	11	December 15, 1989
932074-075 incl.	Reeves	2	December 15, 1989
932076	Sewell	1	December 15, 1989
933528	Sewell	1	December 15, 1989
933563-564 incl.	Sewell	2	December 15, 1989
933571	Sewell	1	December 15, 1989
947085	Sewell	1	December 15, 1989
947088	Sewell	1	December 15, 1989
947090-094 incl.	Sewell	5	December 15, 1989
947096-100 incl.	Sewell	5	December 15, 1989
947255-256 incl.	Sewell	2	December 15, 1989
947258	Sewell	1	December 15, 1989
947260-264 incl.	Sewell	5	December 15, 1989
947267-269 incl.	Sewell	3	December 15, 1989
950272-273 incl.	Sewell	2	December 15, 1989
987281	Reeves	1	December 15, 1989
987291-292 incl.	Reeves	2	December 15, 1989
997126-127 incl.	Sewell	2	December 15, 1989
997136-139 incl.	Sewell	4	December 15, 1989
1027204	Sewell	1	December 15, 1989
1029372-373 incl.	Reeves	2	December 15, 1989
1072109	Sewell	<u>1</u>	December 15, 1989

TOTAL

76 claims

The claims are illustrated in Figure 3, Claim Map. The claims are held in trust by Glen Auden Resources Limited for American Barrick Resources Corporation and Goldrock Resources Inc.

GENERAL GEOLOGY

The following is quoted from Burk, 1988a:

"The Reeves Joint Venture property lies in the northern part of the Archean-age Swayze Greenstone Belt and covers typical sequences of mafic submarine flows and less abundant intermediate to felsic volcanics. Exposures of sedimentary rocks are sparse on the property though two prominent units of oxide and sulphide facies banded iron formation have been identified. Intrusive sheets and pods of ultramafic and mafic rocks are common, particularly in the western and southeastern parts of the claim group."

PREVIOUS WORK

The following is quoted from Burk, 1988a:

"The most recent government geologic mapping of the property area was done by Milne (1972). At the request of the present claim holders, D. Pyke (1987) carried out a reconnaissance mapping and lithogeochemical study of the property area. He concluded that the supracrustal sequences in the northern part of the Swayze greenstone belt are similar, texturally and compositionally to the volcanic units of the Timmins mining camp, and therefore constitute a favourable geological environment for gold mineralization. The geology of the original 267 claims of the RJV property was mapped in the 1987 field

season and is described by Burk (1987). The magnetometer survey discussed in this report was done within the limits of the claim block. The most important previous geophysical work done in the property area is an airborne magnetics-EM survey (Dighem, 1984) which covers an area that encompasses all of the presently-held claims.

In addition to the geologic mapping that was done on the original RJV property, Glen Auden Resources/Goldrock Resources carried out mechanical outcrop stripping and trenching in the southeast corner of Reeves Township, eastern Penhorwood Township, and just west of Deerfoot Lake in Kenogaming Township (Garner, 1987). Two series of overburden pits were also excavated and sampled in these areas (Garner, 1987). The ground magnetometer survey reported on here covers these workings. A more comprehensive review of exploration work done on the Reeves Joint Venture property by Glen Auden/Goldrock as well as previous mining companies is give by Burk (1987)."

SURVEY PROCEDURE

MAGNETICS

Theory

The magnetic method is based on measuring alteration in the shape and magnitude of the earth's naturally occurring magnetic field caused by changes in the magnetization of the rocks in the earth.

These changes in magnetization are due mainly to the presence of the magnetic minerals, of which the most common is magnetite, and to a lesser extent ilmenite, pyrrhotite, and some less common minerals.

Magnetic anomalies in the earth's field are caused by changes in two types of magnetization: induced and remanent (permanent). Induced magnetization is caused by the magnetic field being altered and enhanced by increases in the magnetic susceptibility of the rocks, which is a function of the concentration of the magnetic minerals.

Remanent magnetism is independent of the earth's magnetic field, and is the permanent magnetization of the magnetic particles (magnetite, etc.) in the rocks. This is created when these particles orient themselves parallel to the ambient field when cooling. This magnetization may not be in the same direction as the present earth's field, due to changes in the orientation of the rock or the field.

The most common method of measuring the total magnetic field in ground exploration is with a proton precession magnetometer. This device measures the effect of the magnetic field on the magnetic dipole of hydrogen protons. This dipole is caused by the "spin" of the proton, and in a magnetometer these dipoles in a sample of hydrogen-rich fluid are oriented parallel to a magnetic field applied by an electric coil surrounding the sample. After this magnetic field is removed, the dipoles begin to precess (wobble) around their orientation under the influence of the ambient earth's magnetic field. The frequency of this precession is proportional to the earth's magnetic field intensity.

Field Method

The magnetics data were collected with a proton precession magnetometer, which measures the absolute value of the total magnetic field of the earth to an accuracy of $\pm 1n$ Tesla. The magnetometer is carried down the survey line by a single operator, with the sensor mounted on a short pole to remove it from the surface geologic noise. Readings are normally taken at 25m intervals, and at 12.5m intervals where the operator observes a high gradient (anomaly).

The readings are corrected for changes in the earth's total field (diurnal drift) by repeating readings at base stations and "tie points" several times each day. This recorded drift is then applied to the data as a correction.

PERSONNEL AND EQUIPMENT

A one-man crew consisting of Tom Lahey, technician was supplied by Robert S. Middleton Exploration Services Inc. to conduct the magnetic survey. The apparatus which was used consisted of an EDA Instruments PPM-350 total field magnetometer and a PPM-400 base station magnetometer. Specifications for these instruments are included in Appendix A.

SURVEY STATISTICS

The survey comprised a total of 59.75 line km of total field magnetics which required 22 days to survey due to poor line-cutting. Two days were used for mobilization-demobilization.

INTERPRETATION

The results of the present magnetic survey as well as the previous induced polarization survey are illustrated on the magnetic survey map, Figure 4.

The magnetic survey delineated two distinct magnetic domains denoted M_1 and M_2 . Domain M_1 is characterized by a quiet magnetic signature of approximately 800 gammas above base level. The magnetic domain is interpreted to possibly represent mafic units. Domain M_2 is characterized by a very perturbed magnetic signature of approximately 1000 to 1500 gammas above base level. This magnetic domain is interpreted to possibly represent iron-rich mafic units.

The results of the previous induced polarization survey, when superimposed on the present magnetic survey, yield interesting results. IP conductor axes are observed to be subparallel to or closely associated with the interpreted contacts between M_1 and M_7 . The IP anomalies are therefore interpreted to possibly represent sulphide horizons at or near the interpreted contacts.

CONCLUSIONS AND RECOMMENDATIONS

The results of the present magnetic survey combined with those of the previous induced polarization survey delineated sulphide horizons at or near an interpreted contact between different mafic units. These axes should be investigated based on the recommendations of the previous induced polarization survey.

Respectfully submitted


Richard Lachapelle, B.Sc. Ing. Jr.

211658

REFERENCES

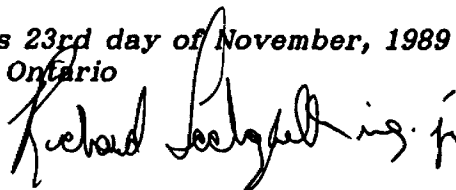
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1987
GEOLOGICAL REPORT on the Reeves Joint Venture Property of Goldrock Resources Inc. and Glen Auden Resources Limited, Reeves, Sewell, Penhorwood and Kenogaming Twps., Porcupine Mining Division. October, 1987
- 1988a
REPORT on MAGNETOMETER SURVEY on the Joint Venture Property of Glen Auden Resources Limited and Goldrock Resources Inc. August 8, 1988
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Dighem survey of the Foleyet area, Ontario. Dighem Limited for MPH Consulting Ltd.
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1989
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1972
Ontario Division of Mines, Geological Report 97, Geology of the Kukatush-Sewell Lake Area, District of Sudbury
- PYKE, D.R.
1987
Geological Report on the Kukatush River Area - Reeves, Sewell, Penhorwood, Kenogaming Townships for Robert S. Middleton Exploration Services Inc. May, 1987

CERTIFICATION

I, Richard Lachapelle, of 136 Cedar Street South, in the City of Timmins, Province of Ontario, certify as follows concerning my report on the American Barrick Resources Corporation/Goldrock Resources Inc./Glen Auden Resources Limited property in Sewell and Reeves Townships, Province of Ontario and dated November 23, 1989:

1. I am a junior member in good standing of l'Ordre des Ingenieurs du Quebec.
2. I am a graduate of l'Universite de Sherbrooke, Sherbrooke, Quebec with a B.Sc. degree in Physics, obtained in 1984.
3. I am a graduate of l'Ecole Polytechnique de Montreal, Montreal, Quebec with a B.Eng degree in Geological Engineering obtained in 1987.
4. I have been practising in Canada since 1987.
5. I have no direct interest in the properties, leases, or securities of American Barrick Resources Corporation, Goldrock Resources Inc. or Glen Auden Resources Limited nor do I expect to receive any.
6. The attached report is a product of:
 - a) Examination of data included in the report which was collected on the property concerned.

Dated this 23rd day of November, 1989
TIMMINS, Ontario

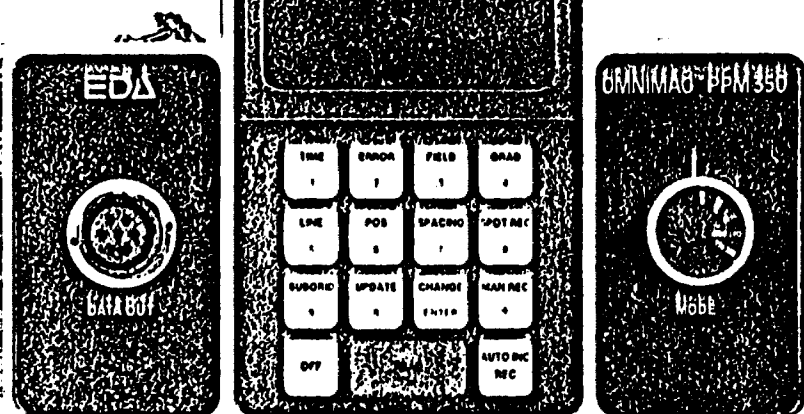


Richard Lachapelle, B.Sc. Ing. Jr.
Geophysicist

A P P E N D I X A

OMNIMAG PPM-350 Total Field Magnetometer

EDA



The PPM-350 is the latest addition to EDA's OMNIMAG*™ series of magnetometers and gradiometers. It is engineered to provide users with the latest state-of-the-art advances in microprocessor technology, including many features that are unique in the field.

Major benefits and features include:

- Significant increase in productivity
- Lowered survey costs
- Automatic diurnal correction
- Programmable grid coordinates
- Highly reproduceable data
- Ergonomic design
- Simplified fieldwork
- Computer-compatible



Specifications

Dynamic Range	18,000 to 93,000 gammas
Sensitivity	± 0.02 gamma
Statistical Error Resolution	0.01 gamma
Standard Memory Capacity	1383 data blocks or readings
Absolute Accuracy	± 15 ppm at 23°C, 50 ppm over the operating temperature range
Display Resolution	0.1 gamma
Capture Range	$\pm 25\%$ relative to ambient field strength of last stored value
Display	Custom-designed, ruggedized liquid crystal display with an operating temperature range from -35°C to $+55^{\circ}\text{C}$
Gradient Tolerance	5,000 gammas per meter
Sensor	Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy
Sensor Cable	Remains flexible in temperature range; includes low strain connector
Operating Environmental Range	-35°C to $+55^{\circ}\text{C}$; 0-100% relative humidity; weather-proof
Power Supply	Non-magnetic rechargeable sealed lead acid battery cartridge or belt; or, Disposable "C" cell battery cartridge or belt
Battery Cartridge Life	2,000 to 5,000 readings, depending upon ambient temperature and rate of readings
Weight and Dimensions	
Instrument Console only	3.4 kg, 238 x 150 x 250 mm
Lead Acid Battery Cartridge	1.9 kg
Sensor	1.2 kg, 56 mm diameter x 200 mm
System Complement	Electronics console; sensor with 3-meter cable; sensor staff; power supply; harness assembly; operation manual.

EDA is a pioneer in the development of advanced geophysical systems and has created many innovations that increase field productivity and lower survey costs.

EDA's OMNIMAG series consists of the PPM-350 Total Field Magnetometer, PPM-400 Base Station Magnetometer, and the PPM-500 Vertical Gradiometer. Contact us *now* for details.

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Cable: Instruments Toronto
(416) 425-7800

In USA
EDA Instruments Inc.
5151 Ward Road
Wheat Ridge, Colorado
U.S.A. 80033
Telex: 00 450681 DVR
(303) 422-9112



Report of Work
Mining Act (Geophysical, Geological and Geochemical Surveys)

Mining Lands Section, Mineral Development and Land Branch

Type of Survey(s) GROUND GEOPHYSICS (MAGNETOMETER)	Mining Division PORCUPINE	Township or Area SEWELL & REEVES TOWNSHIP
Recorded Holder(s) AMERICAN BARRICK RESOURCES CORPORATION, EXPLORATION DIVISION	Prospector's Licence No. T-834	
Address P.O. Box 1637 TIMMINS ONTARIO P4N 7W8		Telephone No. (705) 264-4246
Survey Company R.S. MIDDLETON EXPLORATION SERVICES INC		Date of Survey (from & to) 24 11 88 15 12 88
Name and Address of Author (of Geo-Technical Report) R. LACHAPPELLE 9/6 P.O. Box 1637 TIMMINS		

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	40
	- Magnetometer	
For each additional survey using the same grid: Enter 20 days (for each)	- Other	26 ^{8A}
Man Days Complete reverse side and enter total(s) here	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Other	

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	724554-1/2	P	867634-1/2	P	932075-1/2
P	755312-1/2	P	843525-1/2	P	932076-1/2
P	755313-1/2	P	843526-1/2	P	933528-1/2
P	755314-1/2	P	901327-1/2	P	933563-1/2
P	755317-1/2	P	901328-1/2	P	933569-1/2
P	755318-1/2	P	901329-1/2	P	933571-1/2
P	798200-1/2	P	901330-1/2	P	947085-1/2
P	798201-1/2	P	901331-1/2	P	947088-1/2
P	798202-1/2	P	901332-1/2	P	947090-1/2
P	798203-1/2	P	901333-1/2	P	947091-1/2
P	804622-1/2	P	901334-1/2	P	947092-1/2
P	826331-1/2	P	901335-1/2	P	947093-1/2
P	831625-1/2	P	901336-1/2	P	947094-1/2
P	831626-1/2	P	901337-1/2	P	947096-1/2
P	848912-1/2	P	932074-1/2	P	947097-1/2
P	848915-1/2	Pg. 1092		Total number of mining claims covered by this report of work.	
P	867633-1/2	26 ^{8A}			

Total miles flown over claim(s):

Date: **October 26/89** Recorded Holder or Agent (Signature): *Richard Lachapelle*

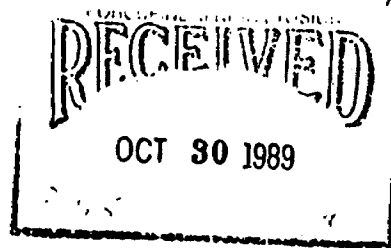
I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying: **Richard Lachapelle (RICHARD LACHAPPELLE P.O. Box 1637 TIMMINS)**

Telephone No.: **(705) 264-4246** Date: **OCT 27/89** Certified By (Signature): *Richard Lachapelle*

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Provincial Manager, Mining Lands



Instructions

- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

Report of Work
(Geophysical, Geological and Geochemical Surveys)

Mining Act

Type of Survey(s)	Mining Division	Township or Area
Recorded Holder(s)	Prospector's Licence No.	
Address	Telephone No.	
Survey Company		
Name and Address of Author (of Geo-Technical Report)		Date of Survey (from & to)
		Day Mo. Yr. Day Mo. Yr.

Credits Requested per Each Claim in Columns at right

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	947098-1/2	P	987291-1/2		
P	947099-1/2	P	987292-1/2		
P	947100-1/2	P	997126-1/2		
P	947255-1/2	P	997127-1/2		
P	947256-1/2	P	997136-1/2		
P	947258-1/2	P	997137-1/2		
P	947260-1/2	P	997138-1/2		
P	947261-1/2	P	997139-1/2		
P	947262-1/2	P	1027204-1/2		
P	947263-1/2	P	1027237-1/2		
P	947264-1/2	P	1029373-1/2		
P	947267-1/2	P	1072109-1/2		
P	947268-1/2				
P	947269-1/2				
P	950272-1/2				
P	950273-1/2				
P	987281-1/2				

Pg. 2 of 2

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

76

Certification Verifying Report of Work

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

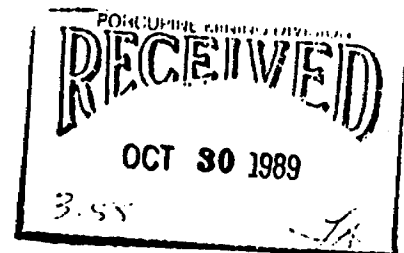
Name and Address of Person Certifying

Telephone No.	Date	Certified By (Signature)
---------------	------	--------------------------

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Provincial Manager, Mining Lands

Received Stamp





GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

2, 129 29

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 Survey(s) MAGNETIC
Township or Area SEWELL AND REEVES, PORCUPINE MINING DIVISION
Claim Holder(s) _____

Survey Company R.S. MIDDLETON EXPLORATION SERVICES INC.
Author of Report R. LACHAPPELLE
Address of Author 136 CEDAR ST. SO. TIMMINS
Covering Dates of Survey NOV 24/88 - DEC 15/88
(linecutting to office)
Total Miles of Line Cut 59.75 Km

MINING CLAIMS TRAVERSED
List numerically

- P724554, P755312, P155313
 - P755314, P755317, P755318
 - P798200, P798201, P798202
 - P798203, P804622, P826331, P831625
 - P831626, P848912, P848915, P867633
 - P867634, P893526, P901327, P901328
 - P901329, P901330, P901331, P901332
 - P901333, P901334, P901335, P901336
 - P901337, P932074, P932075, P932076
 - P933528, P933563, P933584, P933584
 - P947085, P947088, P947090, P947091
 - P947092, P947093, P947094, P947096
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 - P947267, P947268, P947269, P947272
 - P947273, P947281, P987291, P987292
 - P997126, P997127, P997136, P997137
 - P997138, P997139, P1027204, P1029372
 - P1029373, P1072109, P893525
- TOTAL CLAIMS 76

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim.

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

ENTER 20 days for each
additional survey using
same grid.

- Geophysical
 - Electromagnetic _____
 - Magnetometer _____
 - Radiometric _____
 - Other _____
- Geological _____
- Geochemical _____

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

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

DATE: _____ SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications 2.11658

Previous Surveys

File No.	Type	Date	Claim Holder

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations N/A Number of Readings N/A
Station interval 25m Line spacing 100m to 400m
Profile scale N/A
Contour interval _____

Instrument FDA INSTRUMENTS PPH 350
Accuracy - Scale constant 1/T
Diurnal correction method AUTOMATIC DURING DATA DUMP
Base Station check-in interval (hours) N/A
Base Station location and value N/A
FDA PPH 400

Instrument _____
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency _____
(specify V.L.F. station)
Parameters measured _____

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____
Elevation accuracy _____

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 _____

MAGNETIC
ELECTROMAGNETIC
GRAVITY
INDUCED POLARIZATION
RESISTIVITY



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
880 Bay Street, 3rd Floor
Toronto, Ontario
M5S 1Z8

Telephone: (416) 965-4888

April 6, 1990

Your File: W8906.511
Our File: 2.12929

Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Re: Notice of Intent dated February 20, 1990 for Geophysical
(Magnetometer) Survey submitted on Mining Claims: P 724554
et al in Sewell & Reeves Township.

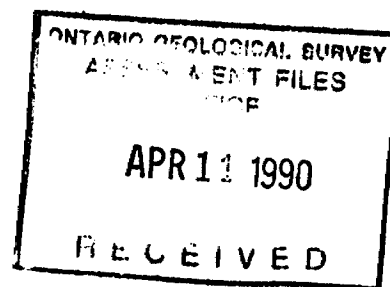
The assessment work credits, as listed with the above-mentioned Notice
Intent have been approved as of the above date.

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

Yours sincerely,

W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

JS:pt
Enclosure



cc: Mr. G.H. Ferguson
Mining and Lands Commissioner
Toronto, Ontario

Resident Geologist
Timmins, Ontario

American Barrick Resources Corp.
Timmins, Ontario



File
2.12929

Date
Feb 19/1990

Mining Recorder's Report of
Work No.
W8906-511

Recorded Holder
American Barrick Resources Corp

Township or Area
Sewell & Reeves Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer <u>26.84</u> _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 798201-202 826331

Special credits under section 77 (16) for the following mining claims

10 days magnetometer- P 755312,755314,755317,755318,848912, 848915, 867634
 893526,901331,901332,901334,932074,932075,932076,
 933528,933563,933564,933571,947261,947262,1027204,
 1029372

20 days magnetometer P 798203, 831626,867633,893525,901327 -30incl.,901336-337,
 947085,947096,947255,947256,947258,947260,947263-64,

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

947267-269incl. 950272,987281,987291,987292,997126,
 997136-139incl. 1029373,1072109







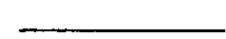
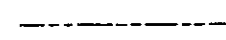
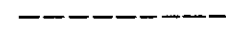
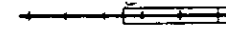
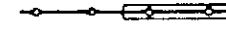





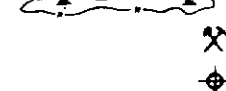
30 days magnetometer - 724554,755313,798200,804622,831625,901333,901335
 947088,947090-94 incl.947097-100 incl. 950273,997127

The Mining Recorder may reduce the above credits if necessary 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 77(19) - 60.

MELROSE TWP

FREY TWP

LEGEND

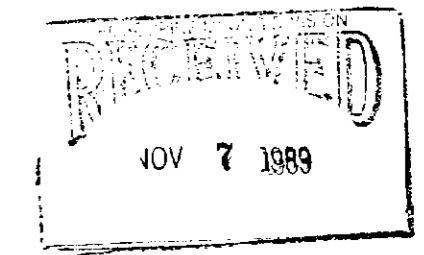
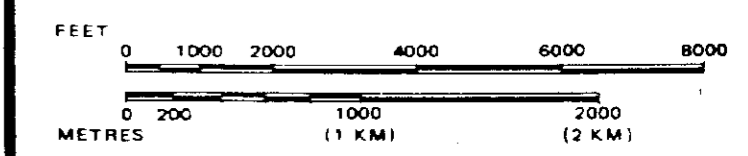
- HIGHWAY AND ROUTE No. 
- OTHER ROADS 
- TRAILS 
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC. 
 - LOTS, MINING CLAIMS, PARCELS, ETC. 
- UNSURVEYED LINES:
 - LOT LINES 
 - PARCEL BOUNDARY 
 - MINING CLAIMS ETC. 
- RAILWAY AND RIGHT OF WAY 
- UTILITY LINES 
- NON-PERENNIAL STREAM 
- FLOODING OR FLOODING RIGHTS 
- SUBDIVISION OR COMPOSITE PLAN RESERVATIONS 
- ORIGINAL SHORELINE 
- MARSH OR MUSKEG 
- MINES 
- TRAVERSE MONUMENT 

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◼
" MINING RIGHTS ONLY	◻
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊖
SAND & GRAVEL	⊕

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 300, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP
SEWELL
 M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
 MINING DIVISION
PORCUPINE
 LAND TITLES / REGISTRY DIVISION
SUDBURY

Ministry of Land
 Natural Resources Management
 Ontario Branch

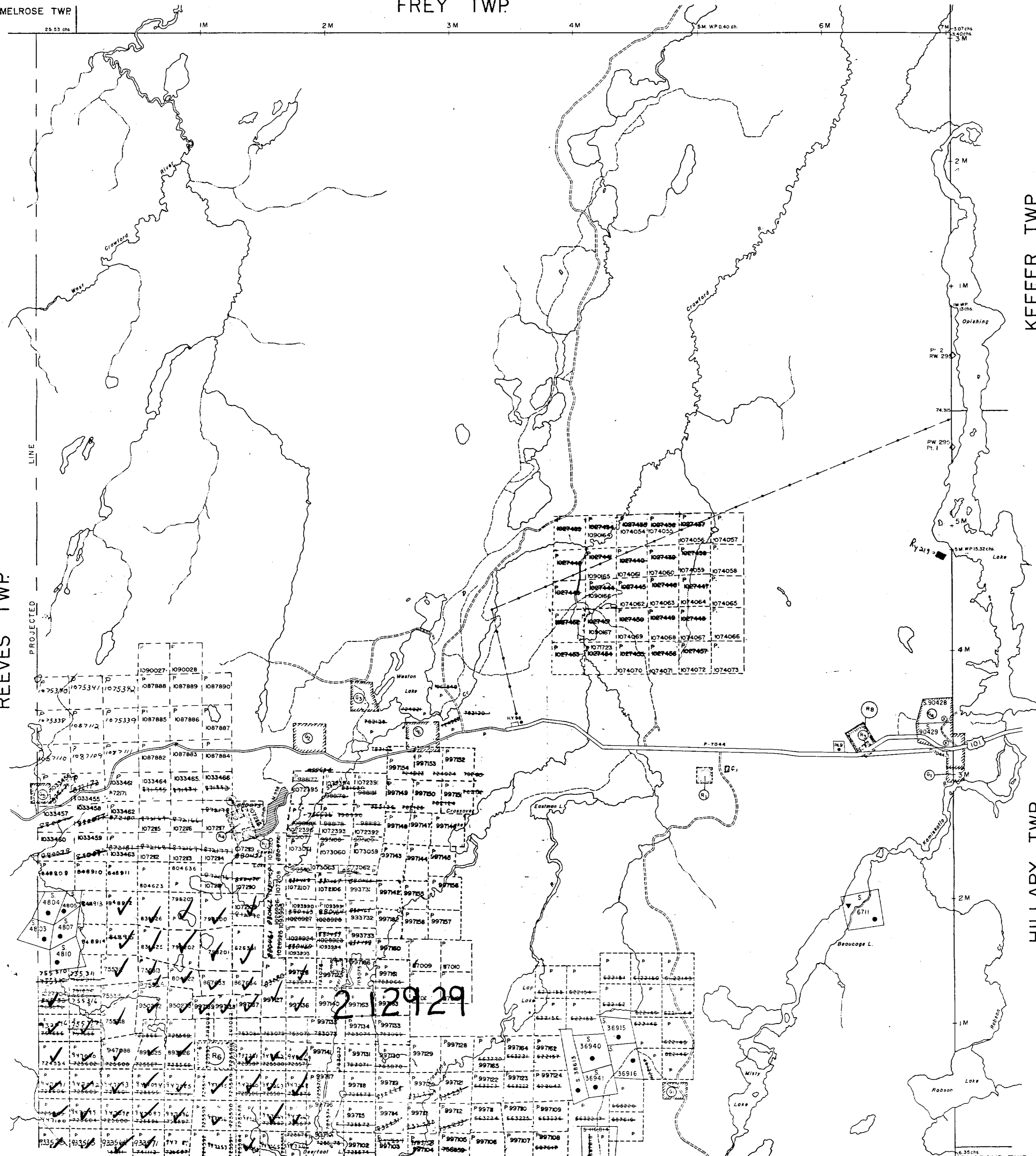
Date MARCH, 1985
 Number **G-3247**

REEVES TWP.

KEEPER TWP.

HILLARY TWP.

KENOGAMING TWP



REEVES

DISTRICT OF
SUDBURY

PORCUPINE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND ● or ⊕
- 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
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED
- PATENTED S.R.O.

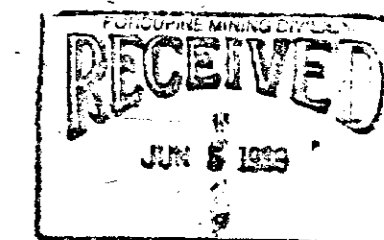
NOTES

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

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970):

Order No.	File	Date	Disposition
13	63002	27/7/72	S R & M R

S.R.O. withdrawn from staking under Sec 34-e of the Mining Act (R.S.O. 1960). File 163226.



Rec. File 11/150

PLAN NO. M.1074

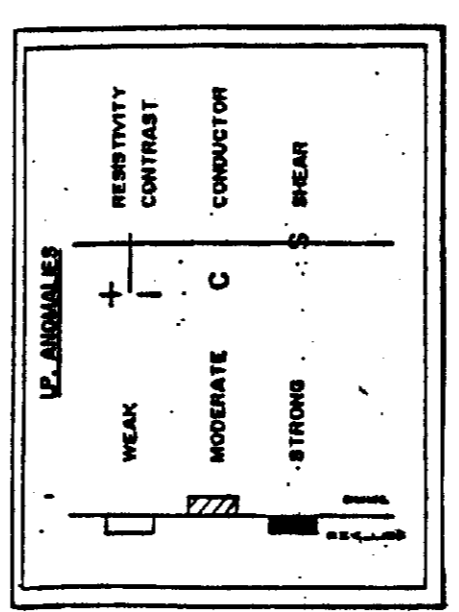
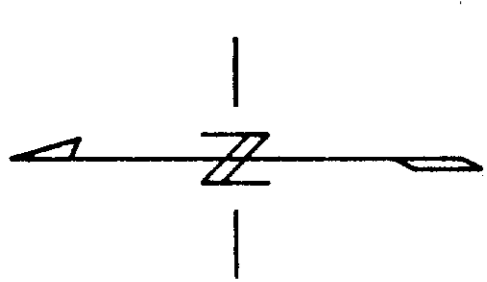
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

MUSKEGO TP. M.881

SEWELL TP. M.1102

PENHORWOOD TP. M.1055



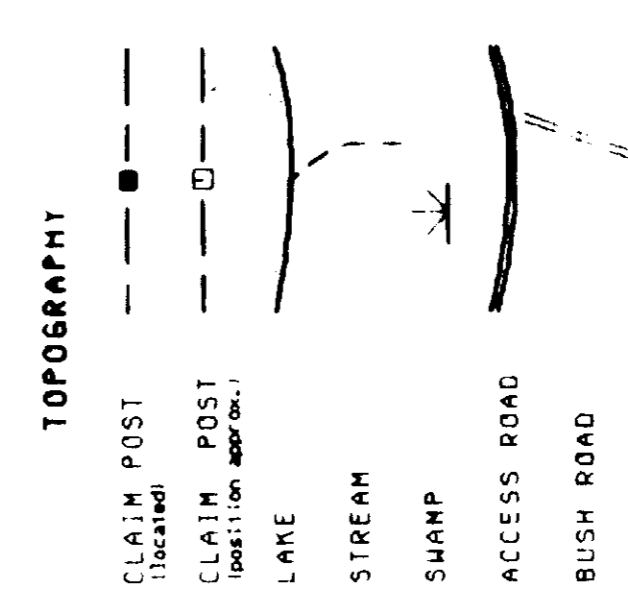


CONTOUR INTERVALS

75
100
500
2000

BASE LEVEL: 96,000 ft BENTON
INSTRUMENT: CGP 100 100

NARROW MAGNETIC MODELS
WIDE MAGNETIC MODELS M_n
INTERPRETED CONTACT
INTERPRETED FAULT



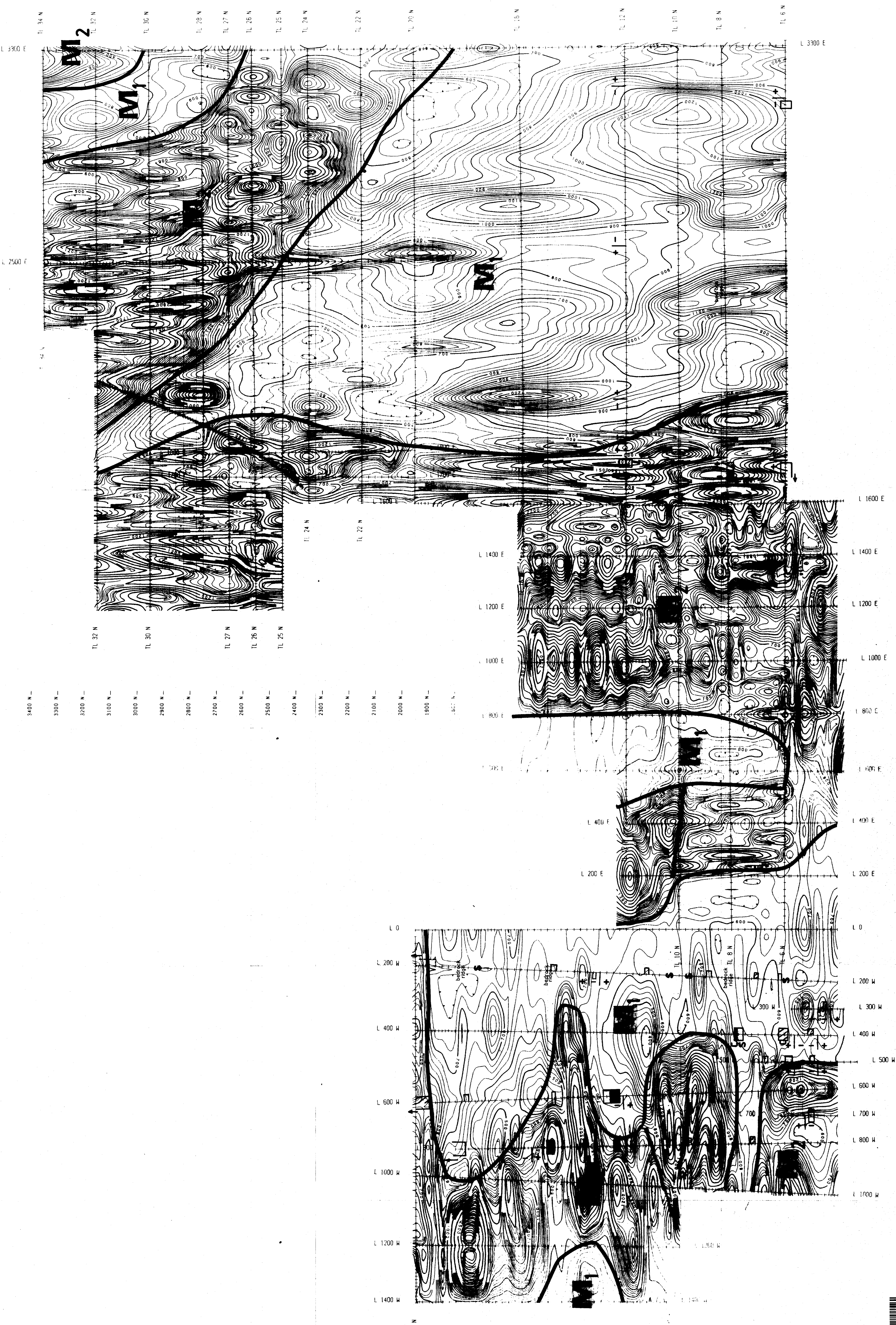
SCALE 1:5000
100 0 100 METERS
200 0 200 FEET

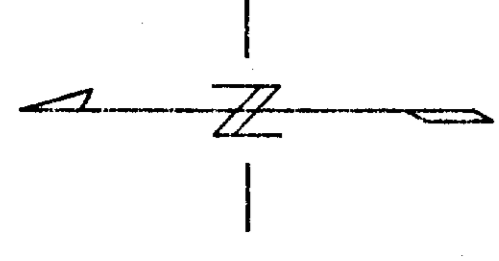
2.12929

ROBERT S. MIDDLETON
EXPLORATION SERVICES INC.
BY AMERICAN BARRICK RESOURCES CORP.
GOLDROCK RESOURCES/GLEN AUDEN RES.

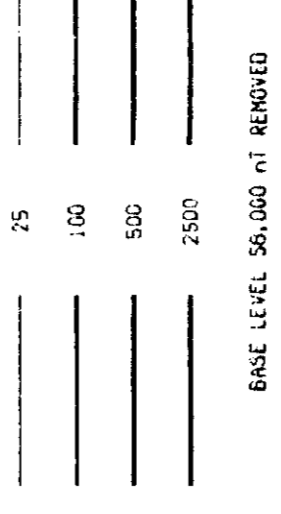
MAGNETIC SURVEY
INDUCED POLARIZATION SURVEY

Date: NOV. 1989
Sheet: 1 of 4
Job # R-273





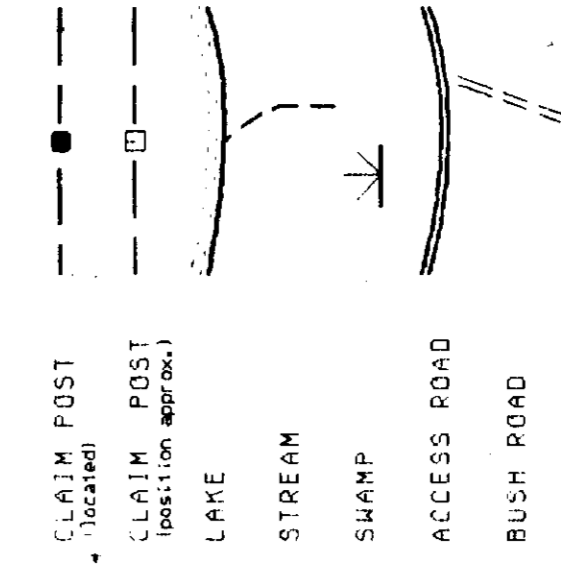
CONTOUR INTERVALS



BASE LEVEL VALUE OF REPORTED INSTRUMENT: SEA PPS 290

NARROW MAGNETIC MODELS
WIDE MAGNETIC MODELS
INTERPRETED CONTACT
INTERPRETED FAULT

TOPOGRAPHY



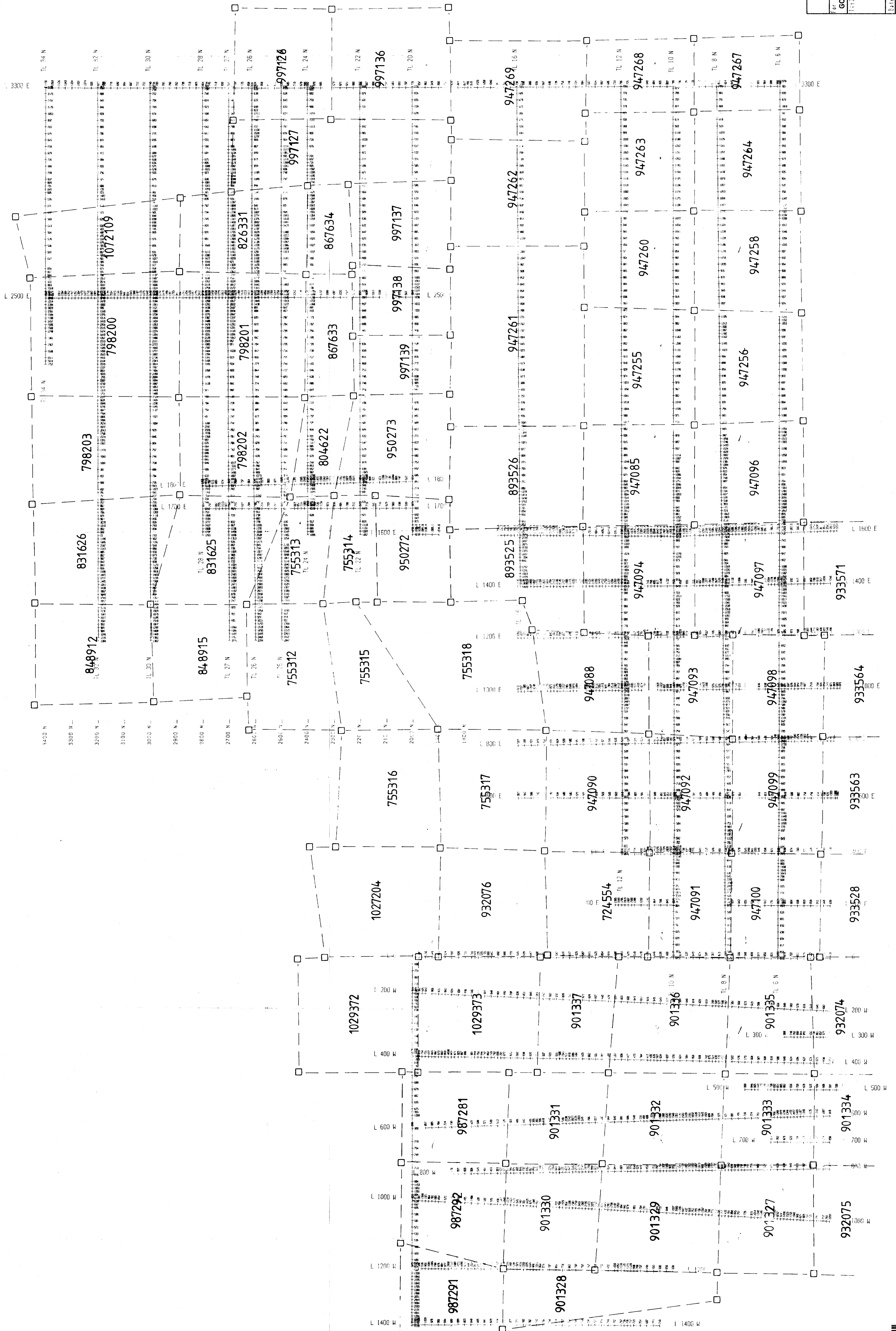
SCALE 1 : 5000

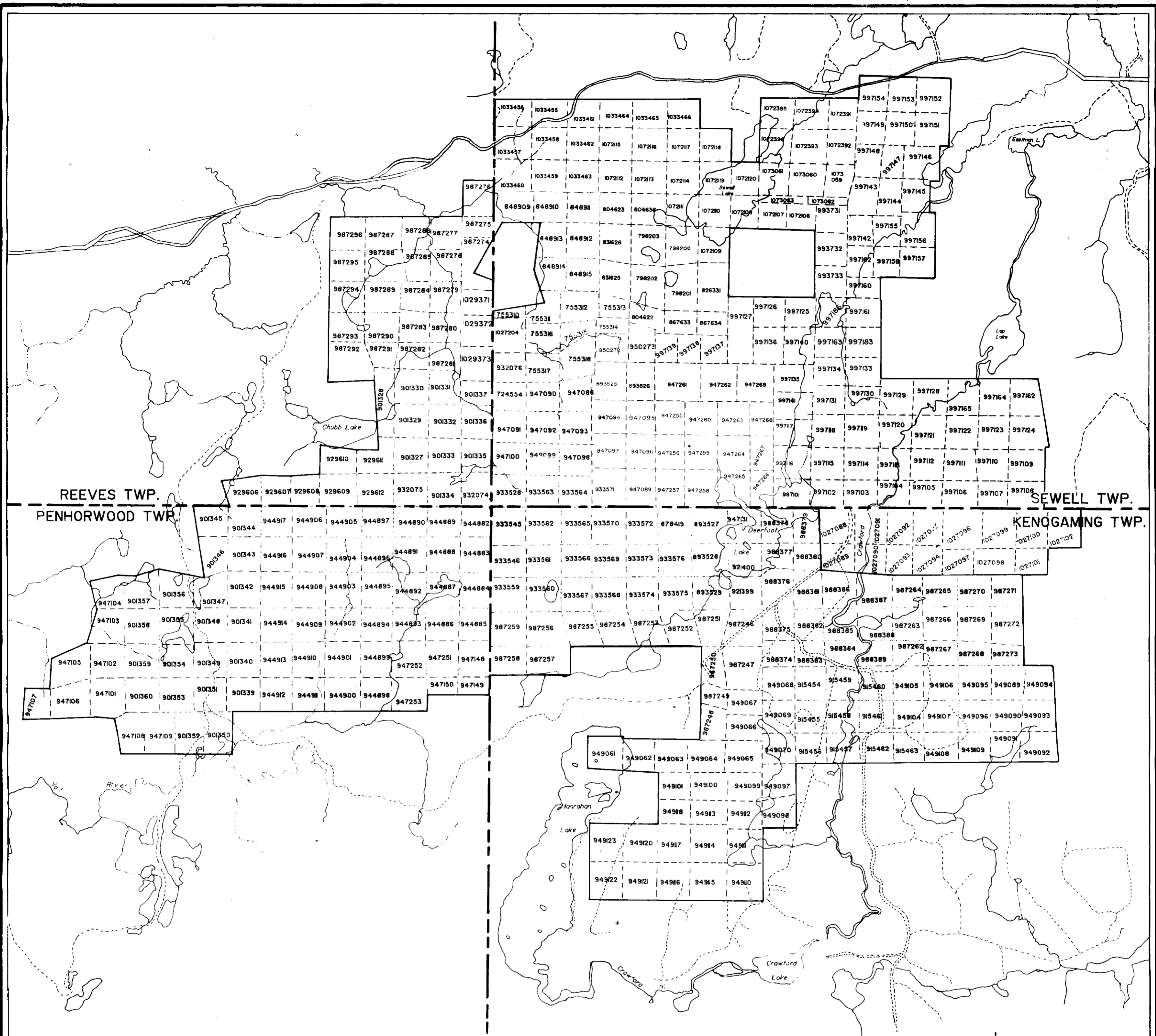
2-129-29

ROBERT S. MIDDLETON
EXPLORATION SERVICES INC.
for AMERICAN BARRICK RESOURCES CORP.
GOLDROCK RESOURCES/GLEN AUDEN RES.

MAGNETIC SURVEY
POSTED VALUES

Date: NOV. 1989
Operator: M.L.S.
Job # R-723





REEVES TWP.

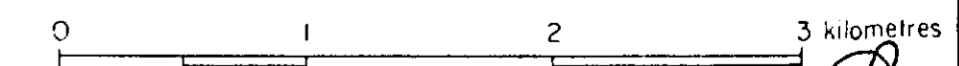
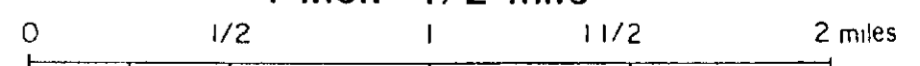
PENHORWOOD TWP.

SEWELL TWP.

KENOGAMING TWP.



1 inch = 1/2 mile



2.12929

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
Mar. 89 JLB	for	GOLDROCK RESOURCES INC. & GLEN AUDEN RESOURCES LTD.	
	Title	REEVES JOINT VENTURE PROPERTY CLAIM MAP	
		Fig. 3	
Date: Oct. 87	Scale: 1:32500	N.T.S.:	
Drawn: B.S.B.	Approved:	File: 8-223	

