VAL D'OR SAGAX INC.
50 Lamaque Boulevard
Val-d'Or (Quebec)
Canada J9P 2H6
Tel: (819) 874-2001
Fax: (819) 874-2002
Email: vds@vdsagax.ca

A REPORT ON A MISE-À-LA-MASSE SURVEY
over the
HOLLINGER COPPER DEPOSIT
FRIPP TOWNSHIP, ONTARIO
submitted to
McArthur Minerals Inc.

97-N156 February 1998

TABLE OF CONTENTS

LIST OF FIGURES

ATTACHED AT THE END OF THIS REPORT

Scale 1 :2000

97-N156-7.1 : Contour map of normalized potential

Scale 1 :500

Profiles (13) of normalized potential, apparent resistivity and chargeability.

1. INTRODUCTION

At the request of Mr. Hermann Daxl, VAL D'OR SAGAX INC. has performed a mise-à-la-masse survey (surface and borehole) for MCARTHUR MINERALS INC. over the HOLLINGER copper deposit, located 34 km south of Timmins, Ontario. The field work was conducted by Mr. Pierre Sangala and Mr. Sylvain Morel from July 9th to July 18th, 1997. A total of 13 cross-hole mise-à-la-masse and 6 line-kilometres of hole-to-surface mise-à-la-masse were surveyed. The general purpose of the present geophysical work was to study the extension of the known mineralized zone and to establish the electrical relationship between the various sulphide-rich intersections encountered in the diamond drill holes.

After a brief description of the mise-à-la-masse method, we discuss the results obtained and attempt to interpret them in light of the available geoscientific information.

2. THE HOLLINGER PROPERTY

2.1. Location and access

The HOLLINGER property is located in the southeast corner of the Fripp township, west of Bartlett Lake, on claim P51071. The site can be reached by truck via 34 km of gravel road, and 1 km northeastward walking on gridline L100+00N from 400 m south of the bridge over the Splitrock River (figure 1).

2.2. Description

The investigated drill holes are all located on claim P51071, whereas the hole-to-surface survey covered parts of claims P51070, P51071, P51072, P55174, P1175376, P1172112, all held by Moneta, the first four being under Ontario mining lease 10 6856 (figure 2).

2.3. Survey grid

The hole-to surface mise-à-la-masse survey was carried out on a portion of the HOLLINGER property grid. The investigated area consists of eleven lines from L96+00N to L102+00N and between stations 96+00E and 105+00E. Lines are oriented E-W and spaced every 50 metres and were regularly picked and chained every 20 metres.

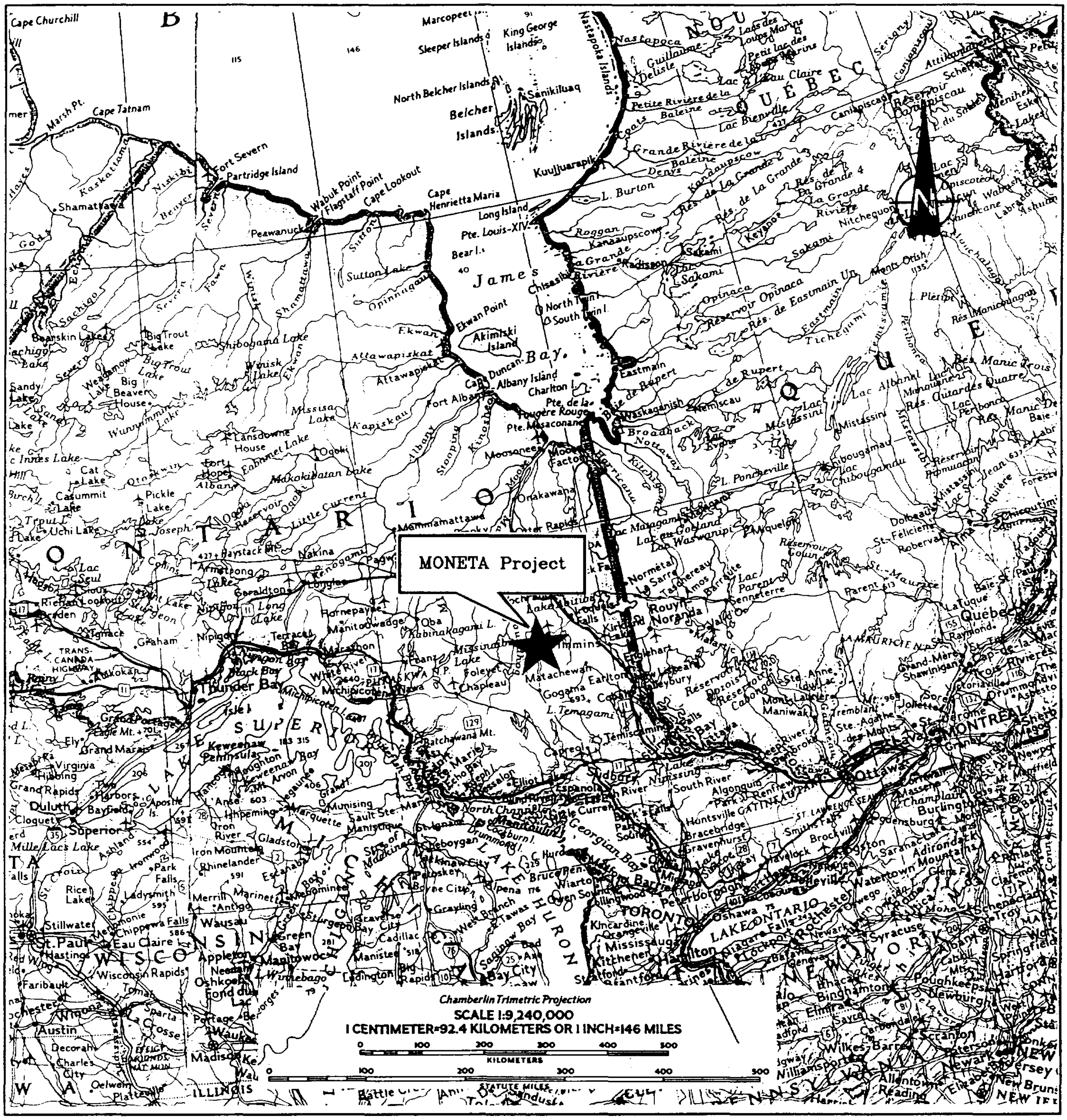
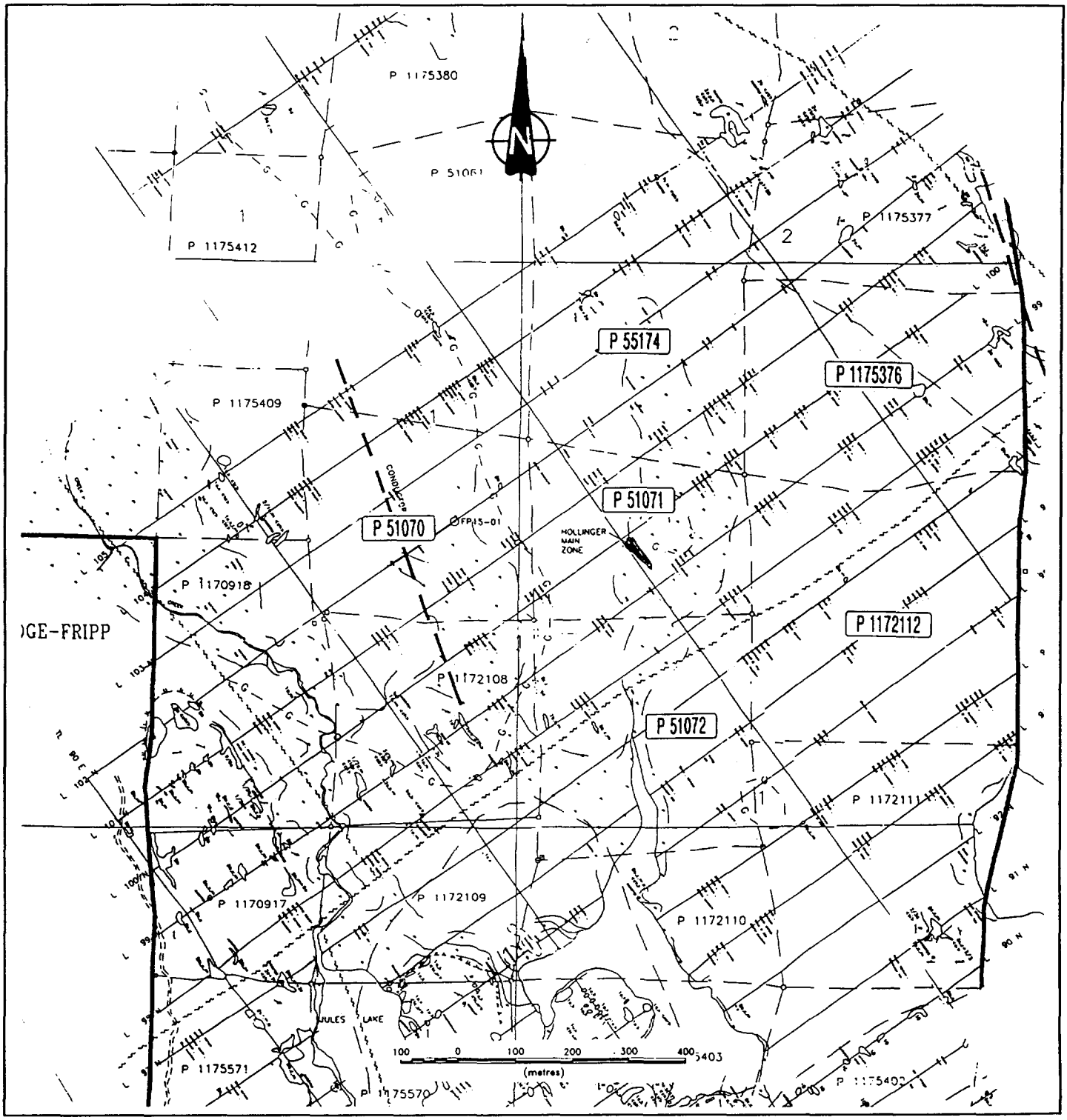

MONETA Project
James Bay
ONTARIO
QUÉBEC
LAKE SUPERIOR
LAKE HURON
LAKE ONTARIO
Chamberlin Trimetric Projection
SCALE 1:9,240,000
1 CENTIMETER=92.4 KILOMETERS OR 1 INCH=146 MILES
KILOMETERS
STATUTE MILES

Figure 2: Index of claims



3. TECHNICAL SPECIFICATIONS OF THE SURVEYS

3.1. Principles of a mise-à-la-masse survey

The mise-à-la-masse technique allows to verify the continuity of a conductor (semi-massive to massive sulfide zone) between two boreholes or to map its surface projection. When a current is injected in a rock without conductor, the observed potential simply obeys the law of the inverse distance :

$$V_{obs} = \frac{4\pi\rho_a}{r} \cdot I$$

where r is the distance between the injection point and the observation point, ρ_a is the apparent resistivity of the ground and I the injected current. The farther the measuring point is from the source, the lower the measured potential will be. The profile of the observed potential will then look like figure 3.

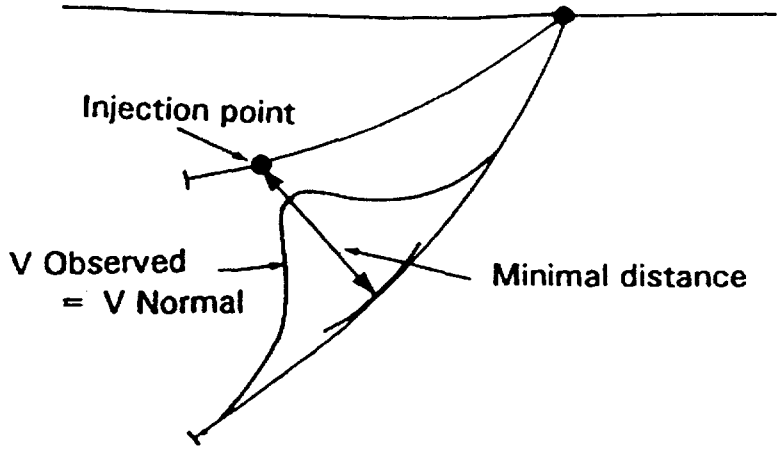


Figure 3 : Profile of the potential without conductor

However, if a current is injected in a conductor, the potential does not drop within this conductor (Ohm's law), and the maximum observed potential is at the closest point from the conductor ends (see figure 4). In the observation hole, a higher apparent resistivity will be obtained at the point closest to the *mise-à-la-masse* conductor (because at that point, the potential is greater than the normal and $\rho_a / r = V_{obs} / 4\pi \cdot I$

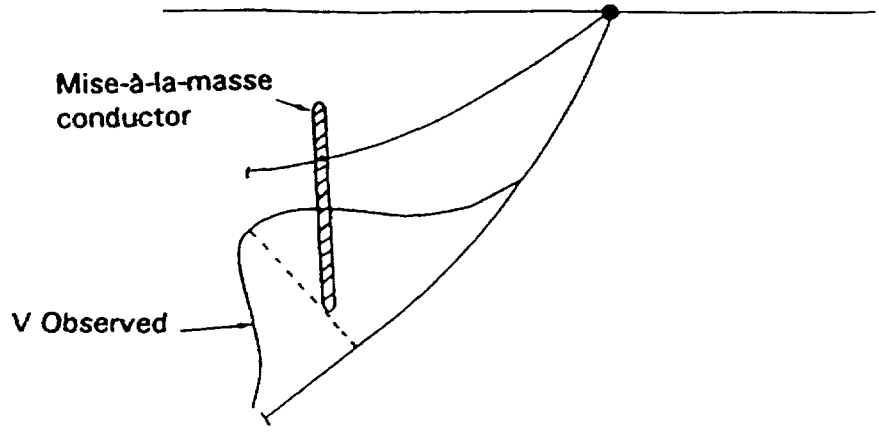


Figure 4: Profile of the potential with a conductor

3.2. Equipment and field set up

The equipment used for the surveys consisted of a transmitting device as well as a receiving device. A Phoenix Geophysics Ltd. model IPT-1 transmitter, powered by a motor generator capable of supplying 2 kW of continuous power, was used to provide a stable current. Stainless steel electrodes were used to transmit current. The transmitted current was a bipolar on-off (50 % duty cycle) square wave. The primary voltage V_p was measured using an IP-2 receiver, from Iris Instrument.

The cross-hole mise-à-la-masse survey was carried out by injecting the current into holes MAC-10 or MAC-11 and measuring the potential into holes MAC-2, MAC-4, MAC-15 and holes from MAC-6 to MAC-12. The injection hole MAC-10 was located at {99+54N, 99+92E}. The injection point was fixed at a depth of 26.6 m in the hole. The injection hole MAC-11 was situated at {99+54N, 99+91.3E} and current was injected at a depth of 56.7 m. The potential was measured every 0.5, 1.0, 2.0 or 4 metres at the request of the client. Figure 5 schematizes the cross-hole mise-à-la-masse set up.

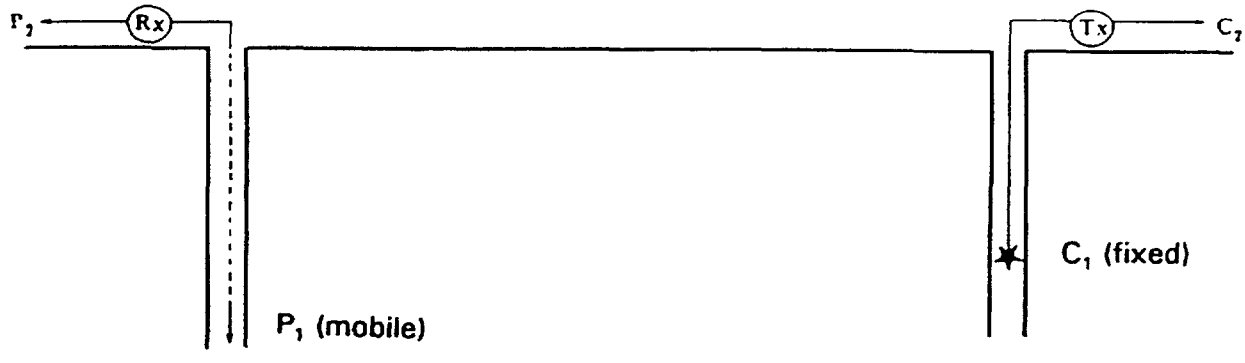


Figure 5: Borehole mise à-la-masse set up

For the hole-to surface mise-à-la-masse survey, hole MAC-10 was used for current injection. The injection point is determined by getting down the C_1 current electrode in the centre of the mineralized zone, then by searching the maximum of injected current in its vicinity. The C_2 reference current electrode was placed at {100+00N, 93+00E}. The potential is measured with a moving P_1 electrode at stations spaced 5 or 10 metres along the survey lines. The reference potential electrode P_2 was situated at {105+95N, 100+00E}.

4. RESULTS AND INTERPRETATION

4.1. Results presentation

The hole-to surface mise-à-la-masse results are presented in the form of a contour map of normalized potential (97-N156-4.3) at a scale of 1:2000. Results for cross-hole mise-à-la-masse are presented in the form of profiles of normalized potential (V_p/I), apparent resistivity and apparent chargeability at a scale of 1:500.

4.2. Hole-to surface mise-à-la-masse

The normalized potential (see map 97-N156-4.3) gives an anomaly with potential maximum on line 99+50N. The observed anomaly is almost concentric around the current injection point. However, the anomaly shows some distorsion eastward. The highest potential value is obtained at line 99+50N and station 100+10E around the surface projection of the injection point location {99+54N, 99+92E}. The anomaly seems to have a N-S strike direction with an extension of about 100 m. The shape of the normalized potential iso-contours reveals a possible dip of the anomaly to the east.

4.3. Borehole mise-à-la-masse

It follows from the cross-hole results (profiles), that the measured potential reaches a maximum at different depths for each borehole. Table 1 and table 2 show these maximums when current was injected into MAC-10 and MAC-11 respectively.

Table 1: Depth and measured potential maximum

DDH number	Maximum potential value [mV/A]	Depth [m]	Geologic structure code
MAC-2	7018.3	58	PRmP
MAC-4	7706.7	78	PRMC

DDH number	Maximum potential value [mV/A]	Depth [m]	Geologic structure code
MAC-6	9176.3	116	PRZ
MAC-7	10656.6	39	S
MAC-8	10715.7	50	S
MAC-9	10334.3	56	IFmP
MAC-11	10908.7	34	GB
MAC-12	10644.3	32	BSq-BSsc
MAC-15	10497.4	43	PCStrpb
Injection borehole: MAC-10		26.6	S-BSPP

Table 2: Depth and measured potential maximum

DDH number	Maximum potential value [mV/A]	Depth [m]	Geologic structure legend
MAC-7	7307	39	S
MAC-8	7497	48	S
MAC-9	7317.7	56	IFmP
MAC-15	11055.9	38	Sbs
Injection borehole: MAC-11		56.7	S

It is interesting to note that the depths corresponding to potential maximum for boreholes MAC-7, MAC-8, MAC-9 and MAC-15 are in enough good correlation for both injection holes MAC-10 and MAC-11. The measured potentials, considering all the boreholes, reach a maximum at depths varying between 6 and 90 metres for the two current injection points in borehole MAC-10 and MAC-11. Figures 6, 7, 8, 9 and 10 (in appendix) show that the potential maximum in each borehole, except borehole MAC-2, is not at the nearest point with respect to the current injection location. Therefore, the mineralized zone intersected by

borehole MAC-10 at depth of 26.6 metres has lateral extension and the maximum potential points (except MAC-2) are located on or at the apex of this zone. In the case of injection borehole MAC-11 at depth of 56.7 metres, the mineralized zone has no extension because of the following reason :

- We note a false mise-a-la-masse in the neighbour mineralized zone due to the same localisation maximum (example: MAC-8), but V/I is smaller even if the distance between holes 8 and 11 is shorter than distance between holes 8 and 10.

Apparent resistivity profiles should have given approximately the same form as normalized potential profiles. But the insufficient quantity of the acid tests along the boreholes makes the calculated resistivity values not enough accurate to be taken into consideration for the interpretation.

The apparent chargeability profiles show, in general, values varying between 1 and 7 mV/V when the current is injected into borehole MAC-10. But some moderate values (10-16 mV/V) can be observed on profile MAC-2. Considering the injection hole MAC-11, the profiles present apparent chargeability values varying between 6 and 11 mV/V.

5. CONCLUSION AND RECOMMENDATIONS

The normalized potential map, obtained from hole-to surface mise-à-la-masse survey, permits to determine the extension, the strike and dip direction of the mineralized zone. It follows from the cross-hole mise-à-la-masse survey that the mineralized zone intercepted by borehole MAC-10 is electrically in relation with the sulphide-rich intersections encountered in the other drill holes (except hole MAC-2) and has therefore a good lateral extension. However, it is not the case for borehole MAC-11.

A hole-to surface mise-à-la-masse survey is recommended on the north side of line 10200N. In fact, it appears (according to the potential map) that there is a conductor in this area.

Respectfully submitted,

Qual. # 2.17503

VAL D'OR SAGAX INC.

for Pierre Sangala
Geophysicist

PS/ag

SW

NE

ELEV 0

9900 E

10000 E

10100 E

ELEV 0

MAC-7

MAC-10

MAC-8

MAC-9

-100m

-100m

-200m

-200m

FIGURE 6

—— Nearest distance of a given hole with respect to the current injection location

◎ Current injection point

· Maximum normalized potential location

MONETA PORCUPINE MINES/
McARTHUR MINERALS J.V.

FRIPP PROPERTY
HOLLINGER COPPER ZONE

SCALE 1:1000
APRIL 1997

SECTION 9,930

SW

NE

ELEV 0

9900 E

10000 E

10100 E

ELEV 0

MAC-10

MAC-11

MAC-12

MAC-2

-100m

-100m

-200m

-200m

FIGURE 7

—— Nearest distance of a given hole with respect to the current injection location

◎ Current injection point

· Maximum normalized potential location

MONETA PORCUPINE MINES/
McARTHUR MINERALS J.V.

FRIPP PROPERTY
HOLLINGER COPPER ZONE

SCALE 1:1000

APRIL 1997

SECTION 9,950N

SW

NE

ELEV 0

9900 E

10000 E

10100 E

ELEV 0

MAC-10

MAC-15

-100m

-100m

-200m

-200m

FIGURE 8

—— Nearest distance of a given hole with respect to the current injection location

◎ Current injection point

· Maximum normalized potential location

MONETA PORCUPINE MINES/
McARTHUR MINERALS J.V.

FRIPP PROPERTY
HOLLINGER COPPER ZONE

SCALE 1:1000
APRIL 1987

SECTION 9,980N

SW

NE

ELEV 0

9900 E

10000 E

10100 E

ELEV 0

MAC-10

MAC-6

-100m

-100m

-200m

-200m

FIGURE 9

—— Nearest distance of a given hole with respect to the current injection location

◎ Current injection point

· Maximum normalized potential location

MONETA PORCUPINE MINES/
McARTHUR MINERALS J.V.

FRIPP PROPERTY
HOLLINGER COPPER ZONE

SCALE 1:1000
APRIL 1997

SECTION 10,000N

SW

NE

ELEV 0

9900 E

10000 E

10100 E

ELEV 0

MAC-10

-100m

-100m

-200m

-200m

MAC-4

FIGURE 10

—— Nearest distance of a given hole with respect to the current injection location

◎ Current injection point

· Maximum normalized potential location

MONETA PORCUPINE MINES/
McARTHUR MINERALS J.V.

FRIPP PROPERTY
HOLLINGER COPPER ZONE

SCALE 1:1000

APRIL 1997

SECTION 10,050N

Profiles of normalized potential, apparent resistivity and chargeability

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)
W9960.00446
Assessment Files Research Imaging

RECORDED

42A03NW2002 2.19890 FRIPP 900

ubsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, this ment work and correspond with the mining land holder. Questions about this collection nent and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.
- Please type or print in ink.

2.19890

1. Recorded holder(s) (Attach a list if necessary)

Name	Client Number
DAVID V. JONES & KEVIN FILO	JONES (1498678) & FILO (131784
Address: C/O K. Filo 535 Balsam St N	Telephone Number: 705 268 0371
Timmins ONT P4N 4A2	Fax Number: 705 268 5894
Name: Monarch Porcupine	Client Number: 171667
Address: 104-85 Pine St South	Telephone Number: 705 264-2296
Timmins ONT	Fax Number

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☑ Geotechnical: prospecting, surveys, assays and work under section 18 (regs) ☐ Physical: drilling stripping, trenching and associated assays ☐ Rehabilitation

Work Type: Down hole Geophysical Survey	Office Use
	Commodity
	Total $ Value of Work Claimed $14,100
Dates Work Performed From: Day 1 Month 6 Year 97 To: Day 18 Month 7 Year 97	NTS Reference
Global Positioning System Data (if available) — Township/Area: Fripp Twp	Mining Division: Porcupine
M or G-Plan Number	Resident Geologist District: Timmins

Please remember to:
- obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name	Telephone Number
Pierre Sangala	819 874 2001
Address: 50 Lamaque Blvd. Val d'Or P.Q	Fax Number
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

RECEIVED
NOV 19 1999
GEOSCIENCE ASSESSMENT OFFICE

4. Certification by Recorded Holder or Agent

I, D. V. Filo (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent		Date
		Nov 17/99
Agent's Address: 535 Balsam St Timmins ONT	Telephone Number: 705 268 0371	Fax Number: 705 268 5894

0241 (03/97)

RECEIVED
NOV 17 1999
PORCUPINE MINING DIVISION

deemed: Feb. 15/2000

5. W
land
for

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mini
land where work was performed, at the time work was performed. A map showing the contiguous link must accompany th
for

REVISED W9960.00445

Mining Claim Number. Or if work is done on other eligible mining land, show in this column the location number indicated on the claim map	Number of Claim Units. For other mining land, list hectares	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims	Bank. Value of work to be distributed at a future date
eg TB 7627	16 ha	$26,825	N/A	$24,000	$2,825
eg 1234567	12	0	$24,000	0	0
eg [illegible]	1	954	0	954	0
1 P510761	1	1910	0	1910	0
2 P510761	1	2624	0	2624	0
3 P551194	1	1670	0	1670	0
4 P510726	1	3339	0	241	3098
5 P1172112	1	3339	0	3339	
6 P1172165	1	2862	0	2862	
7 1190301	6	[illegible]	4800		
8 1190300	2	[illegible]	2400		
9 1171524	1	[illegible]	800		
10 1190299	1	[illegible]	800		
11 1170464	1	[illegible]	800		
12 1170465	1	[illegible]	800		
13 1170467	1	[illegible]	800		
14 1170463	1	[illegible]	800		
15 1170462	1	[illegible]	800		
16 1170468	1	[illegible]	800		
Column Totals		16698		13600	3098

I, J. A. FILO (Print Full Name), do hereby certify that the above work credits are eligible unc
subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim
where the work was done

Signature of Recorded Holder or Agent Authorized in Writing	Date
[signature]	MARCH 30/2000

6. **Instructions for cutting back credits that are not approved.**

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

0241 (03/97)

RECEIVED
MAR 31 2000
3:00 pm
GEOSCIENCE ASSESSMENT OFFICE

MAR 31 '00 14:52 705 268 0371 PAGE.02

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

0241 (03/97)

RECEIVED
NOV 17 1999
4:10 PM
PORCUPINE MINING DIVISION

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W9960.00445

Personal information collected on this form is obtained under the authority of subsection 6 (1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

2.19890

Work Type	Units of work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Diamond Hole Extension	9 holes	2533.00/hole	22,800
Prospecting Survey (Report Included)			
Survey Control Lines	7 km	300/km	2100.00
Geological Supervision	12 days	225/day	2700.00
Associated Costs (e.g. supplies, mobilization and demobilization).			
Transportation Costs			
Truck 12 days @ $50.00/day		50.00/day	600.00
Food and Lodging Costs			
		Total Value of Assessment Work	$28,200.00

RECEIVED
NOV 19 1999
GEOSCIENCE ASSESSMENT OFFICE

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK ~~28,200~~ $14,100 x 0.50 = ~~14,100~~ Total $ value of worked claimed.

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs: J.K. F.10

I, _____ (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Agent (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature	Date
	Nov. 17/99

0212 (03/97)

RECEIVED
NOV 17 1999
4:00
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9845
Fax: (877) 670-1555

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

April 5, 2000

JOHN KEVIN FILO
535 BAETLEMAN STREET
TIMMINS, Ontario
P4N-4X2

Dear Sir or Madam:

Submission Number: 2.19890

Subject: Transaction Number(s):		**Status**
	W9960.00445	Approval After Notice

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact BRUCE GATES by e-mail at bruce.gates@ndm.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 14752
Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.19890

Date Correspondence Sent: April 05, 2000 **Assessor:** BRUCE GATES

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9960.00445	G.6000204	FRIPP	Approval After Notice	March 30, 2000

Section:
14 Geophysical IP

The revisions outlined in the Notice dated February 14, 2000 have been corrected.

The correspondence from J. K. Filo received March 24, 2000 contained errors in calculating the 50% reduction for work more than 2 years old. The TOTAL VALUE of assessment credit that will be allowed, based on the information provided in this submission, is $14,061.00.

Assessment work credit has been redistributed, as outlined on the attached Distribution of Assessment Work Credit sheet, to better reflect the location of the work. Assessment credit has been applied as per the Amended distribution of March 31, 2000. The excess credit of $461 has been placed in reserve on P51071.

Linecutting - $2,247 x 50% = $1,123.50 ($1,061 in letter)
Geophysics - $22,800 x 50% = $11,400 ($14,400 in letter)
Supervision - $2,475 x 50% = $1,237.50 ($1,237.50 in letter)
Truck - $600 x 50 % = $300

Total = $14,061

Correspondence to:

Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

JOHN KEVIN FILO
TIMMINS, Ontario

DAVID V. JONES
SOUTH PORCUPINE, Ontario

MONETA PORCUPINE MINES INC.
TIMMINS, Ontario

Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s).

Date: April 05, 2000

Submission Number: 2.19890

Transaction Number: W9960.00445

Claim Number	Value Of Work Performed
1175376	445.00
51070	635.00
51071	8,845.00
55174	635.00
51072	1,590.00
1172112	1,275.00
1172108	636.00
Total: $	14,061.00

Correspondence ID: 14752

PRICE TWP. M.307

McKEOWN TWP. M.299

McARTHUR TWP. M.298

MUSGROVE TWP. M.304

2.19890
IP

1182689 (16 UNITS)
1182694 (8 UNITS)
1182688 (16 UNITS)
1182702 (6 UNITS)
1182695
1236684
1218764 (3 UNITS)
1206088
1207707 (15 UNITS)
1206980 (16 UNITS)
1206978 (12 UNITS)
1213365 (16 UNITS)
1222953
1222951
1236664
1190301 (6 UNITS)
1222952
1207742 (15 UNITS)
1207740 (4 UNITS)
1213366
1207739 (6 UNITS)
1236665
1207743 (3 UNITS)
1207741
1207747
1236662
1228723
1236661
1236663
RY 223
R1

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

THE TOWNSHIP OF

FRIPP

DISTRICT OF TIMISKAMING

PORCUPINE MINING DIVISION

SCALE: 1-INCH · 40 CHAINS

DISPOSITION OF CROWN LANDS

PATENT, SURFACE AND MINING RIGHTS
" , SURFACE RIGHTS ONLY
" , MINING RIGHTS ONLY
LEASE, SURFACE AND MINING RIGHTS
" , SURFACE RIGHTS ONLY
" , MINING RIGHTS ONLY
LICENCE OF OCCUPATION

ROADS
IMPROVED ROADS
KING'S HIGHWAYS
RAILWAYS
POWER LINES
MARSH OR MUSKEG
MINES
CANCELLED

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
RY 223	(L.U.P. - PENDING APPLICATION UNDER THE PUBLIC LANDS ACT).		

REMOTE TOURIST CAMPS

(R1) AGGREGATE PERMIT SAND & GRAVEL — OCT.07/94

IN SERVICE NOV. 28/88 — CHECKED BY A. ROMAN

PLAN NO. M. 281

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

42A03NW2002 2.19890 FRIPP 200

P51061

P55174 (- -) LINE

P1175376

P51070

P51071

P1172112

P1172108

P51072

P1172111

P1172109

P1172110

L95E

L102N

L101N

L100N

L99N

L98N

L97N

L96N

94E

95E

96E

98E

99E

100E

101E

102E

103E

104E

105E

AREA SURVEYED INSIDE LINE

MAC 4
MAC 3,6
MAC 5
MAC 14,15
MAC 10,11,12,13
MAC 7,8,9

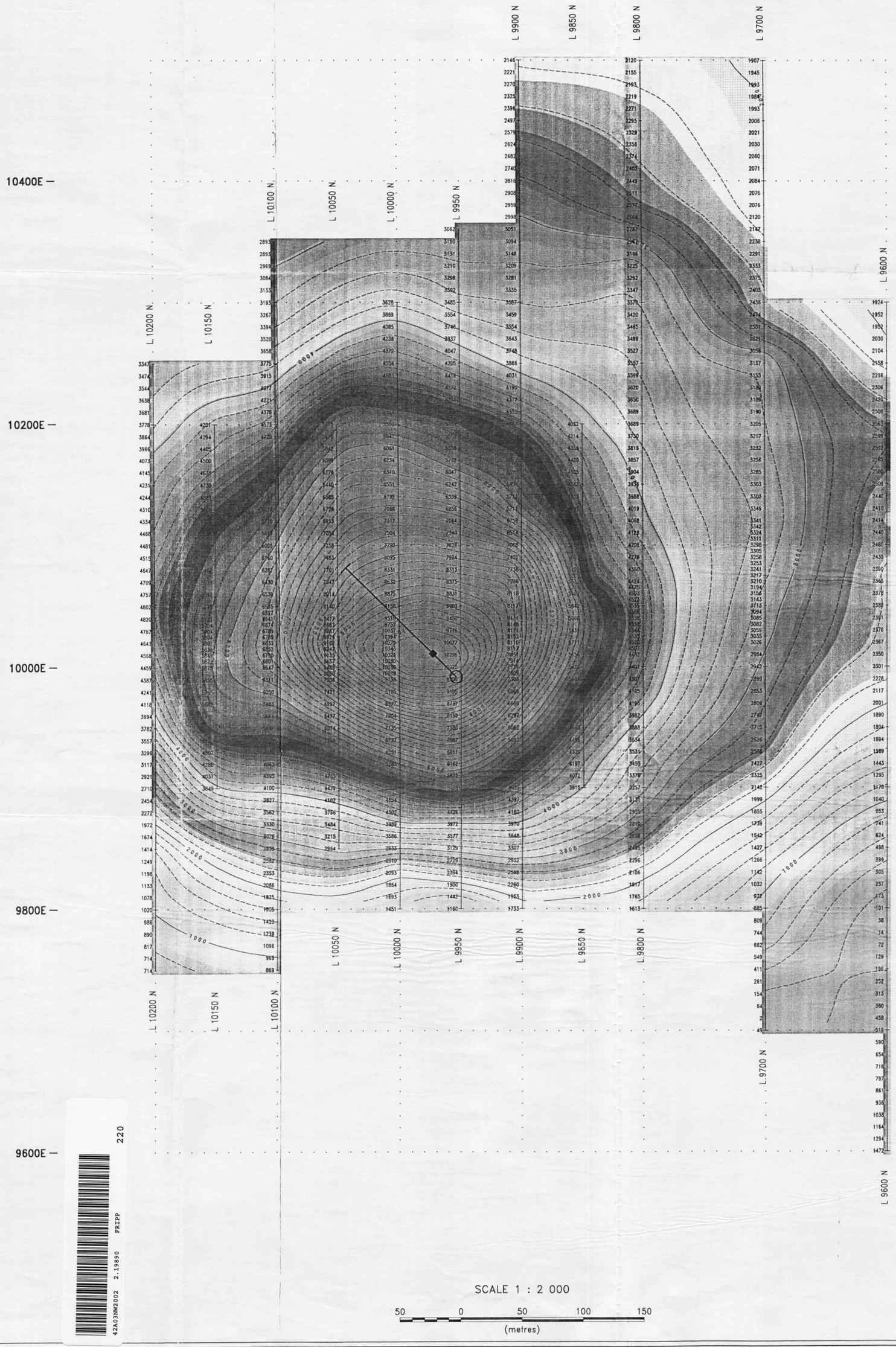
** NOTE: 0.6KM DUE SOUTH OF THIS SURVEY LEASE POST TO FRIPP/MUSGROVE TOWNSHIP BOUNDARY

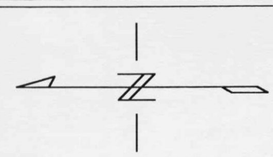
** NOTE: 1.45KM DUE EAST TO FRIPP/McARTHUR TOWNSHIP LINE FROM THIS SURVEYED LEASE POST

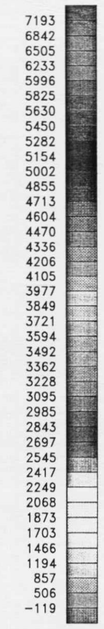
0 50 100 150 200M
(SCALE 1:5000)

LEGEND

- CLAIMPOST
- MAC-10 COLLAR LOCATION
- L100N — GRID LINE & 94E STATION USED FOR THIS SURVEY
- P51071 — CLAIM NO
- AREA RECENTLY SURVEYED WITH RESPECT TO REPORT AS PER PAGE 1 IN REPORT!







Normalized potential
(mV/A)

LEGEND

CONTOUR INTERVALS (mV/A)

- - - - 200

——— 1000

Instrument: IP-2, IRIS

■ Injection point (depth −26.6m)

SCALE 1 : 2 000

50 0 50 100 150
(metres)

McARTHUR MINERALS INC.

MONETA PROJECT

MISE-A-LA-MASSE SURVEY

NORMALIZED POTENTIAL CONTOURS

VAL D'OR SAGAX INC.

VAL D'OR SAGAX

Interpreted by: P. Sangala, M. Sc. A. Date: 08/97

Scale 1 : 2 000 Drawing no: 97-N156-7.1

Reduced potential

3K 4.5K 6K 7.5K 9K

interpretation

Resistivity (Ohm-m)

10^3 10^4

geology

MAC2

Chargeability (mV/V)

-10 0 10 20 30

(m)

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290

case
BS
BSq
GB
PRMM
PR
PRmP
PR
PRMM
PRmP
PR
GB
GN
GB
HMP
GB
PR
GB
SZ15
GBZ
LMZ
GN
GB
BS
20 BSQ
50 BSk
BSgb
BSpr
GB
PRq
GBFT
GB
O.ON
EOH 279.00m

BOREHOLE MISE-A-LA-MASSE

McArthur Minerals Inc.

MONETA PROJECT

42A03NW2002 2.19890 FRIPP

230

HOLE MAC-2

Interpreted by Pierre Sangala
Date: July 1997
Surveyed by Pierre Sangala
Map no

Current electrode in hole MAC-10
Electrode position: -27 m

Reduced potential

3K 4K 5K 6K 7K 8K

interpretation

Resistivity (Ohm-m)

10^4 10^5

geology

MAC4

Chargeability (mV/V)

0 2 4 6 8 10

(m)

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250

case
GB
BSq 30
GB
PRMC
GB
S30
GB
GBFT
qgs
GBpg
LM
GBpg
BSgb
BS
PG
BS
GN
BS
GB
BS
GN
S
GBpg
BSMT
GB
0.0N
EOH 246.00m

BOREHOLE MISE-A-LA-MASSE

McArthur Minerals Inc.

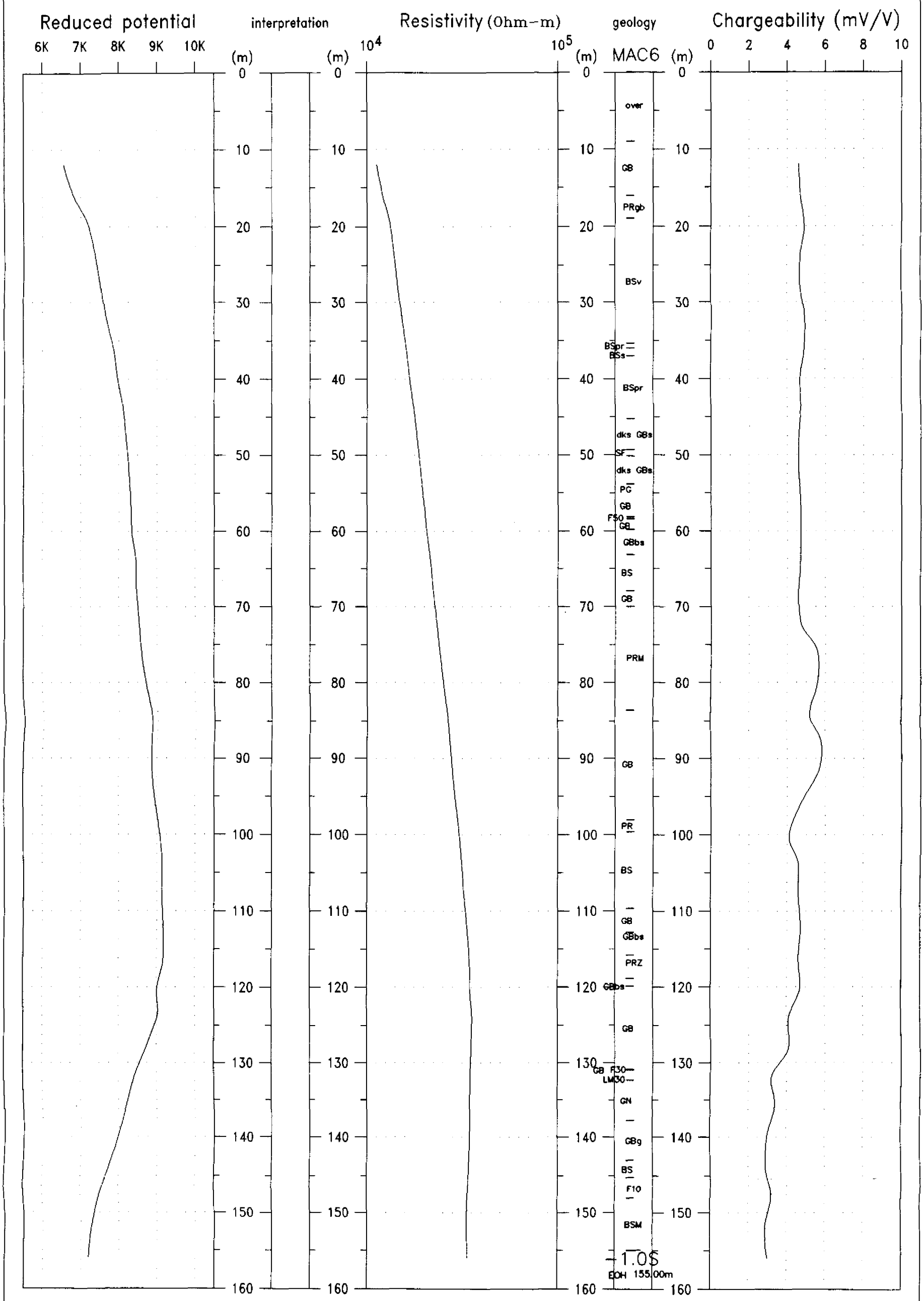
MONETA PROJECT

240

HOLE MAC-4

Interpreted by Pierre Sangala
Date: July 1997
Surveyed by Pierre Sangala
Map no

Current electrode in hole MAC-10
Electrode position: -27 m



BOREHOLE MISE-A-LA-MASSE

McArthur Minerals Inc.

MONETA PROJECT

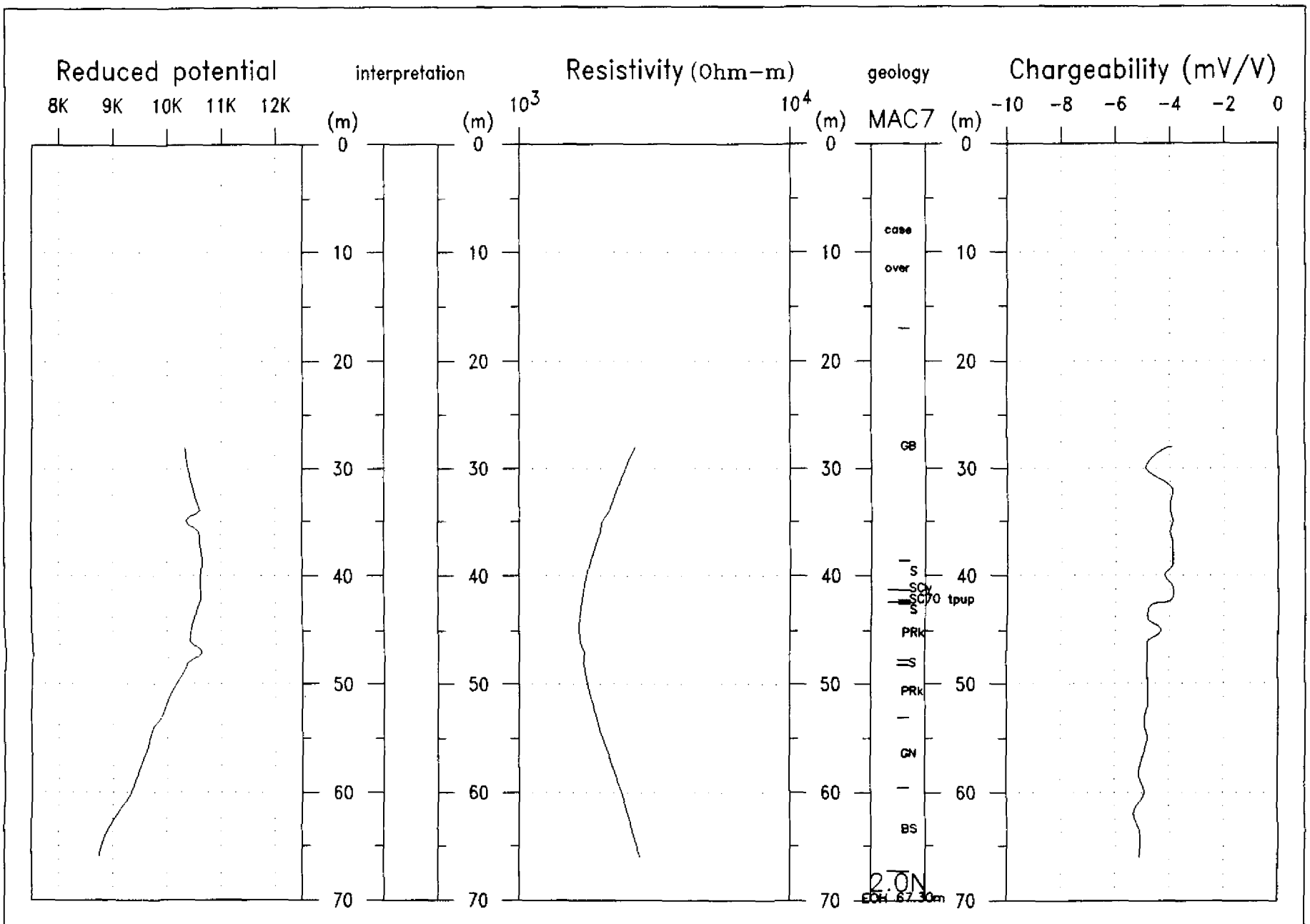
42A03NW2002 2.19890 FRIPP

250

HOLE MAC-6

Interpreted by Pierre Sangala
Date: July 1997
Surveyed by Pierre Sangala
Map no

Current electrode in hole MAC-10
Electrode position: -27 m



BOREHOLE MISE-A-LA-MASSE

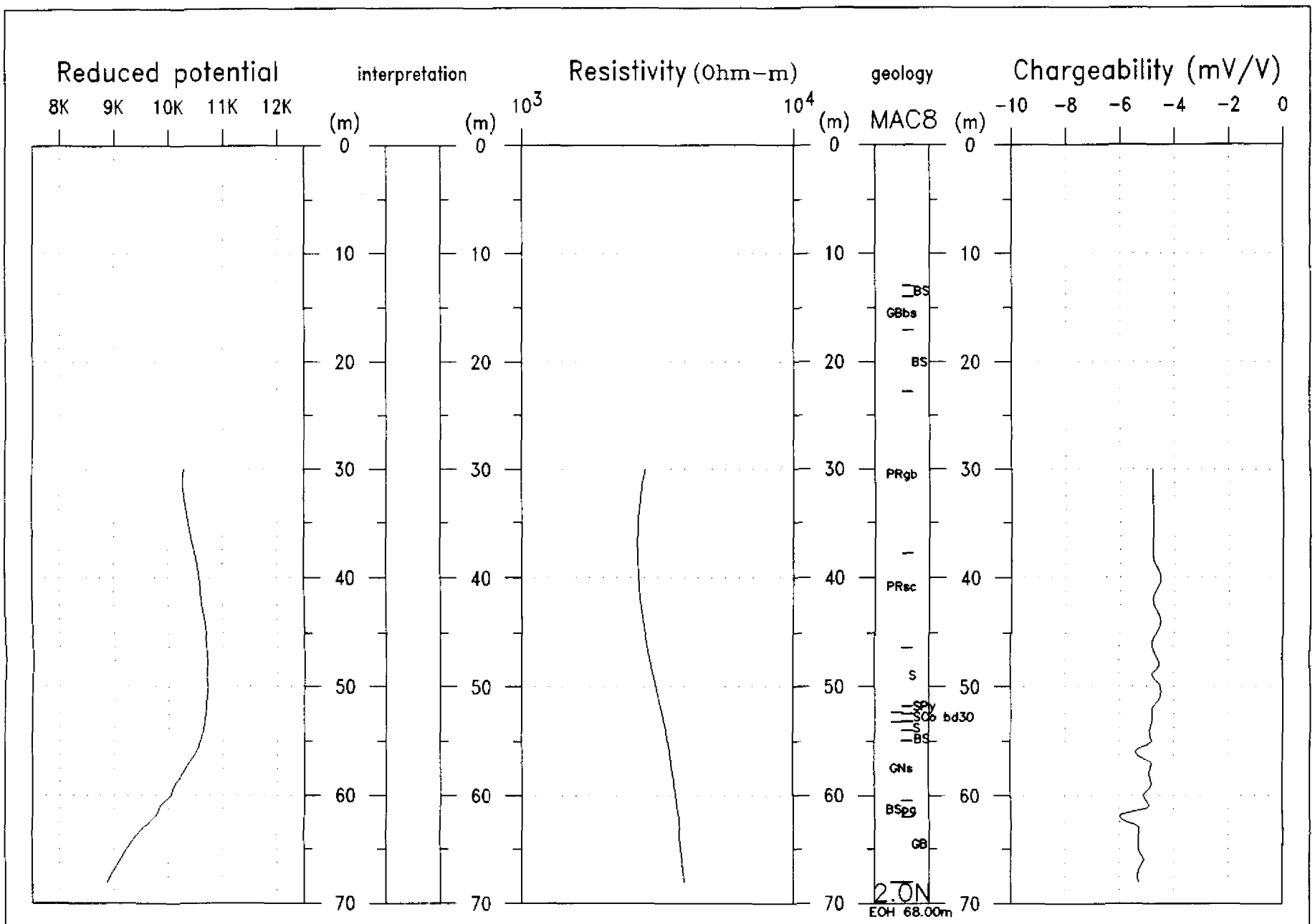
McArthur Minerals Inc.

MONETA PROJECT

HOLE MAC-7

Interpreted by Pierre Sangala
Date: July 1997
Surveyed by Pierre Sangala
Map no

Current electrode in hole MAC-10
Electrode position: -27 m



BOREHOLE MISE-A-LA-MASSE

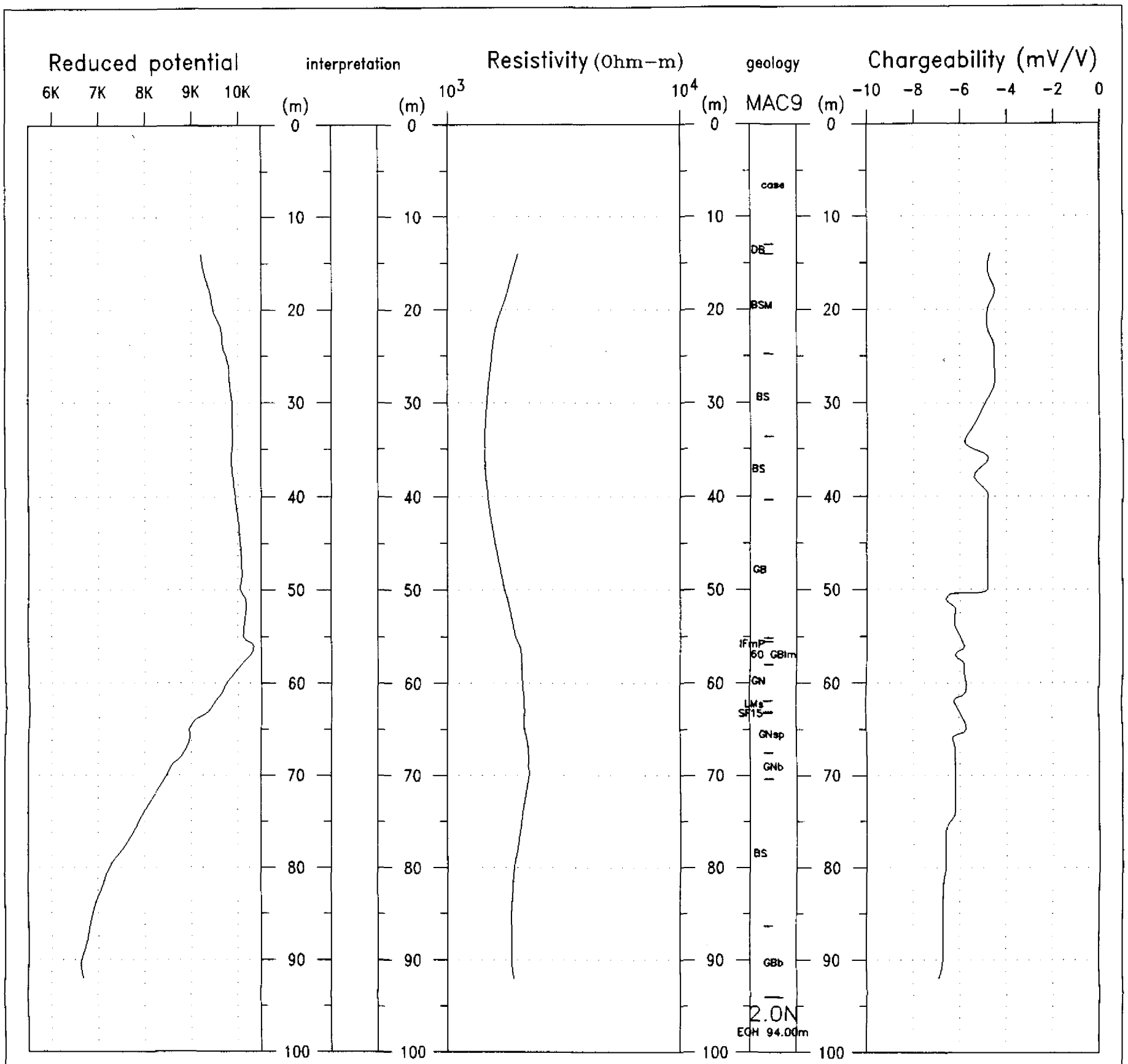
McArthur Minerals Inc.

MONETA PROJECT

HOLE MAC-8

Interpreted by Pierre Sangala
Date: July 1997
Surveyed by Pierre Sangala
Map no

Current electrode in hole MAC-10
Electrode position: -27 m



BOREHOLE MISE-A-LA-MASSE

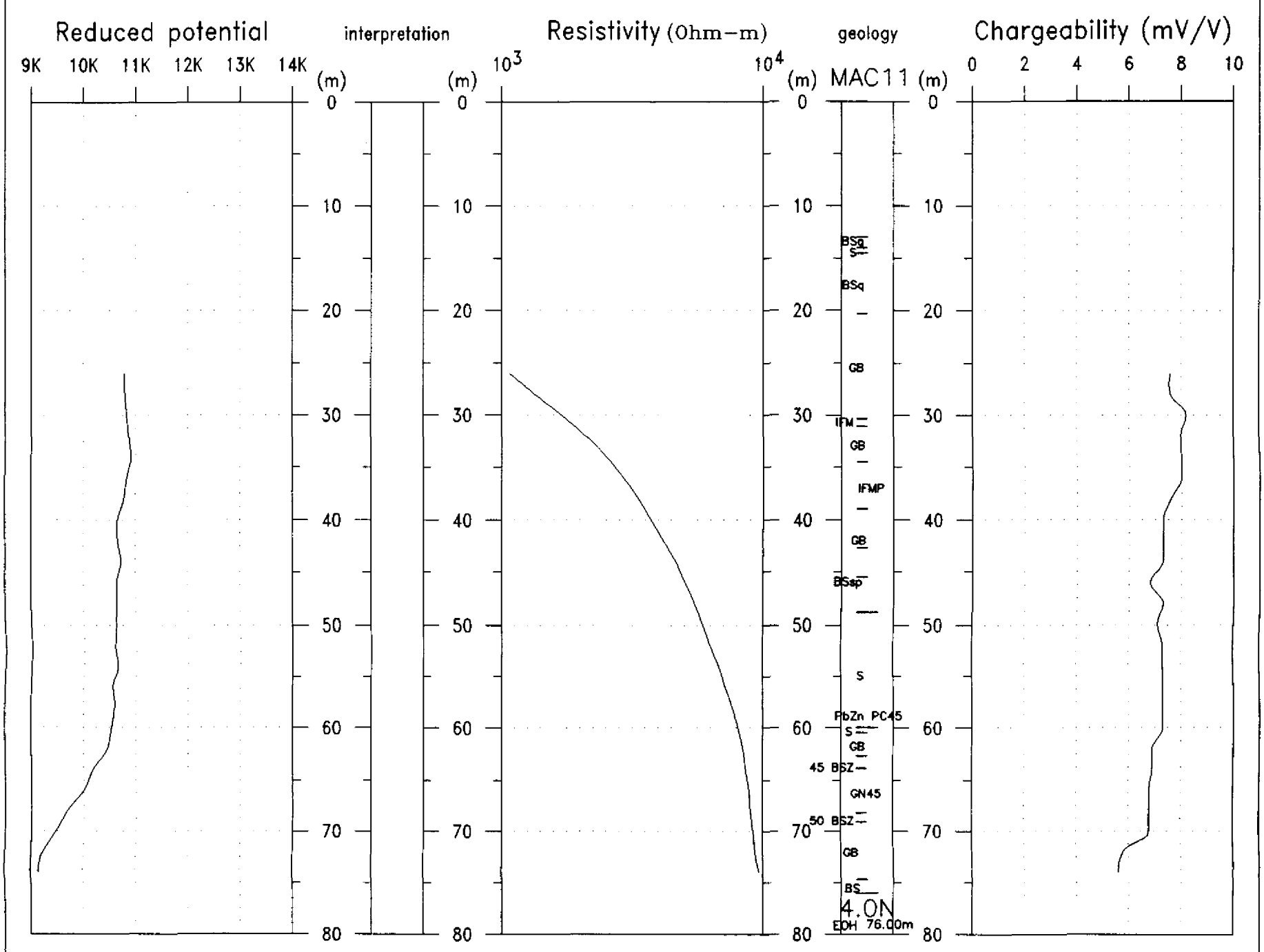
McArthur Minerals Inc.

MONETA PROJECT

HOLE MAC-9

Interpreted by Pierre Sangala
Date: July 1997
Surveyed by Pierre Sangala
Map no

Current electrode in hole MAC-10
Electrode position: -27 m



BOREHOLE MISE-A-LA-MASSE

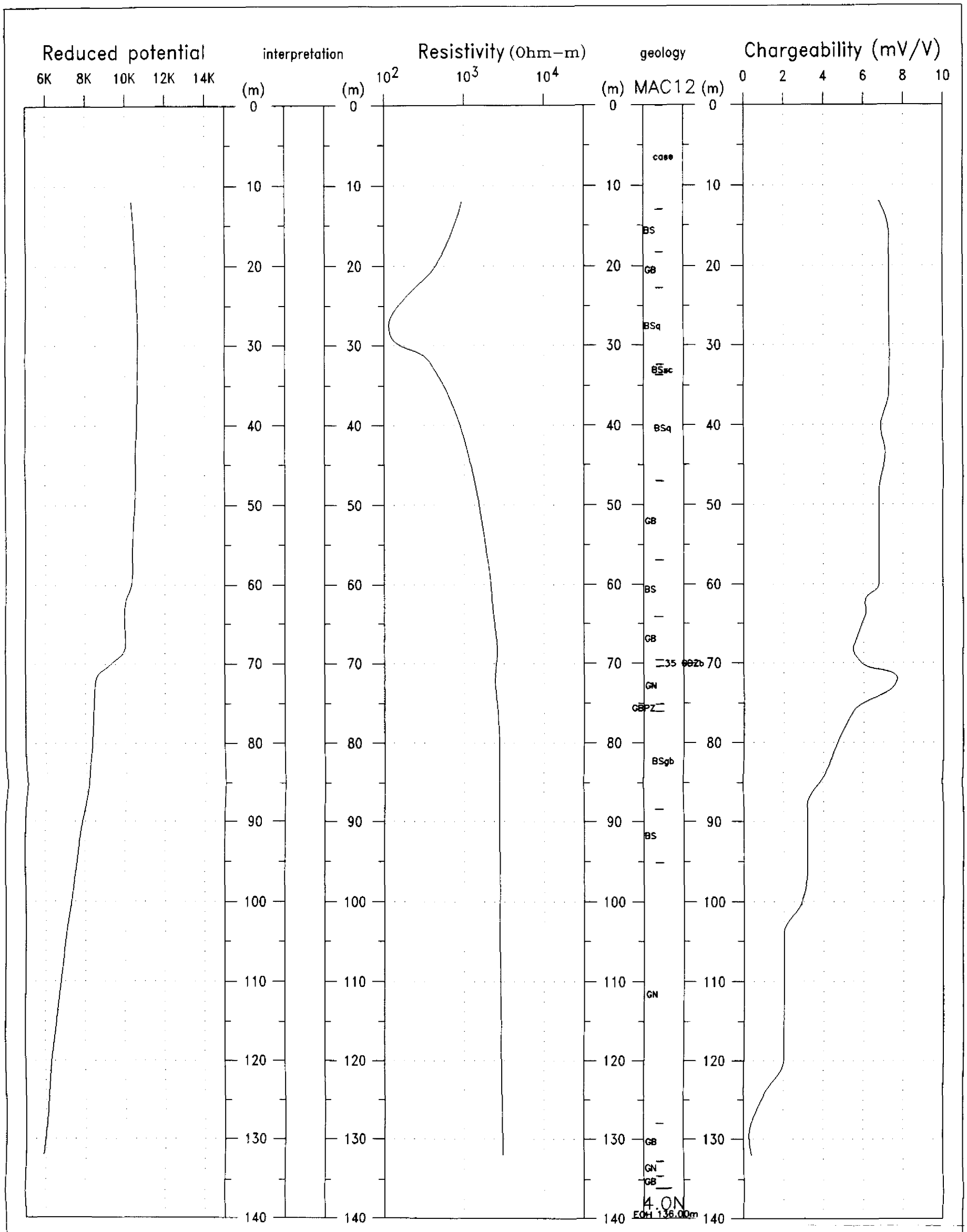
McArthur Minerals Inc.

MONETA PROJECT

HOLE MAC-11

Interpreted by Pierre Sangala
Date: July 1997
Surveyed by Pierre Sangala
Map no

Current electrode in hole MAC-10
Electrode position: - 27 m



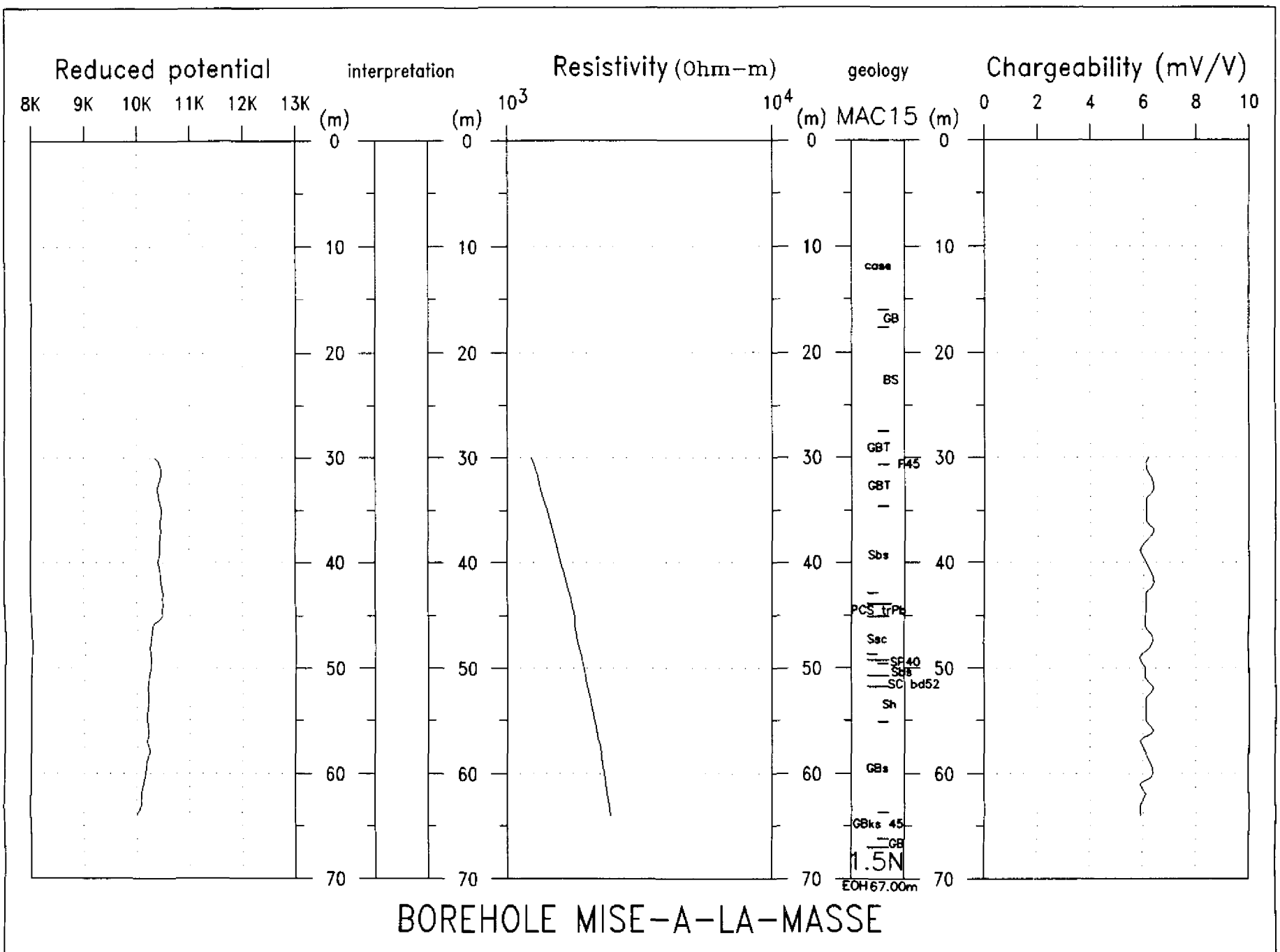
BOREHOLE MISE-A-LA-MASSE

McArthur Minerals Inc.
MONETA PROJECT

HOLE MAC-12

Interpreted by Pierre Sangala
Date: July 1997
Surveyed by Pierre Sangala
Map no

Current electrode in hole MAC-10
Electrode position: -27 m



BOREHOLE MISE-A-LA-MASSE

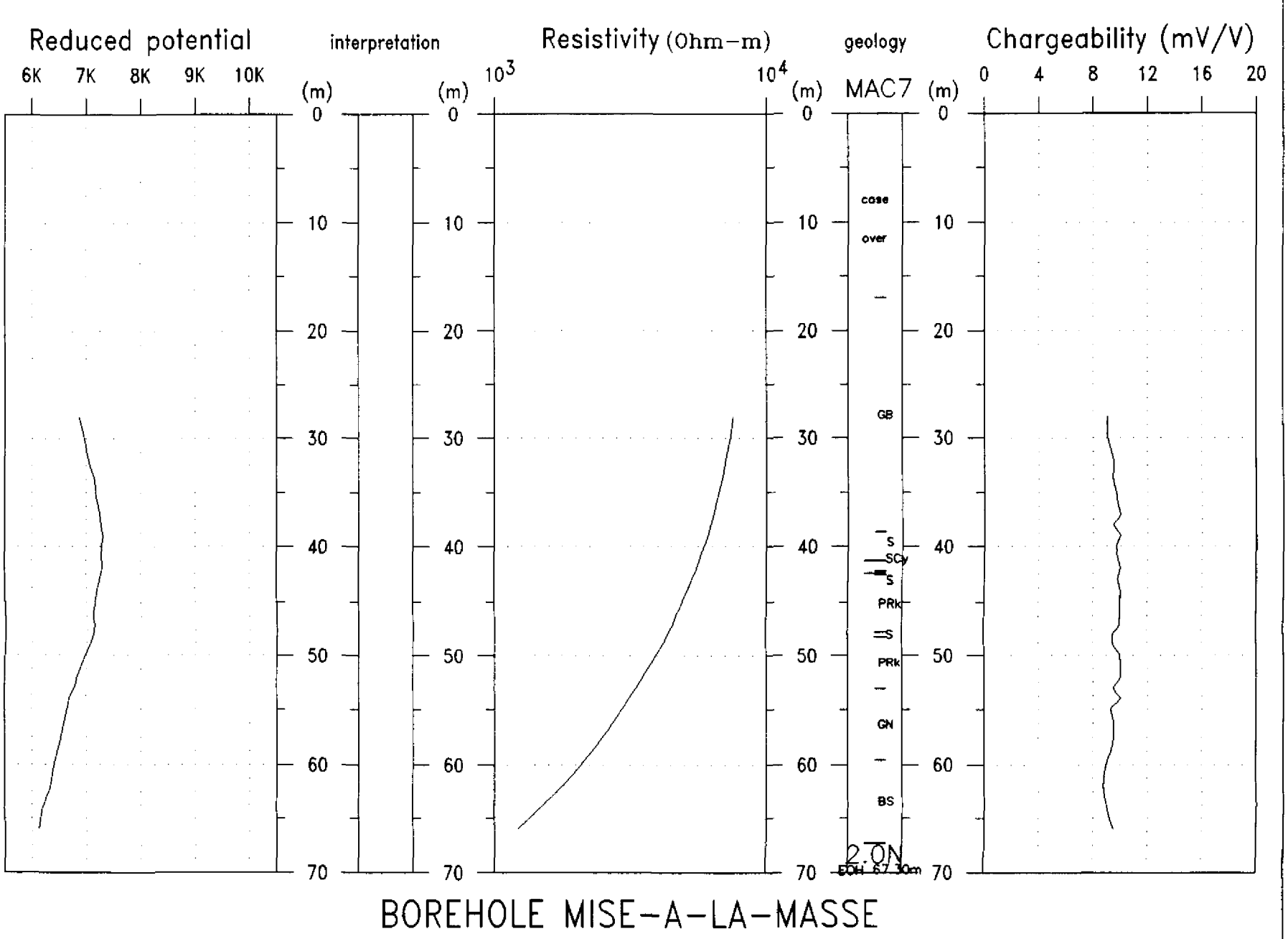
McArthur Minerals Inc.

MONETA PROJECT

HOLE MAC-15

Interpreted by Pierre Sangala
Date: July 1997
Surveyed by Pierre Sangala
Map no

Current electrode in hole MAC-10
Electrode position: -27 m



BOREHOLE MISE-A-LA-MASSE

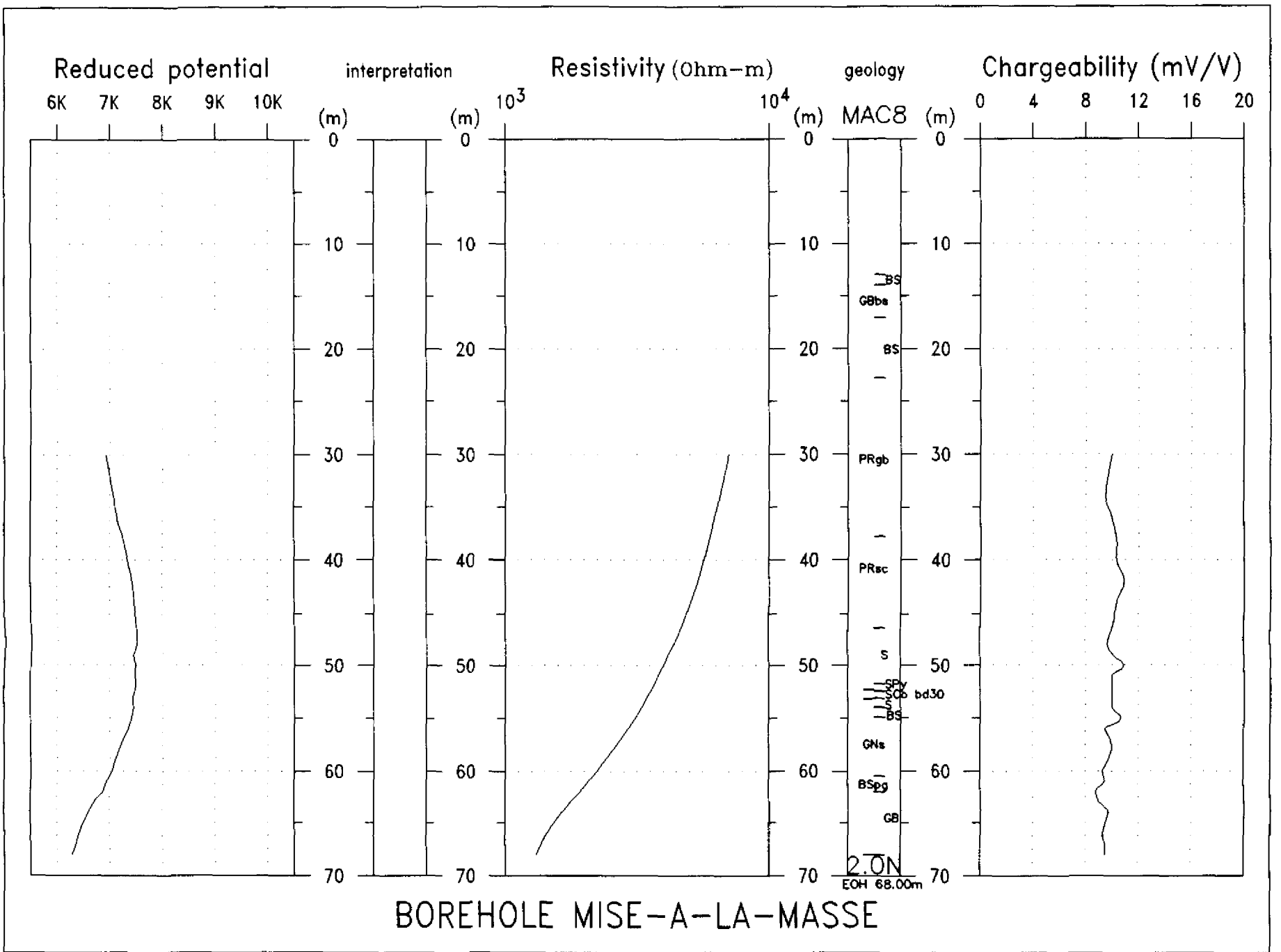
McArthur Minerals Inc.

MONETA PROJECT

HOLE MAC-7

Interpreted by Pierre Sangala
Date: July 1997
Surveyed by Pierre Sangala
Map no

Current electrode in hole MAC-11
Electrode position: -57 m



BOREHOLE MISE-A-LA-MASSE

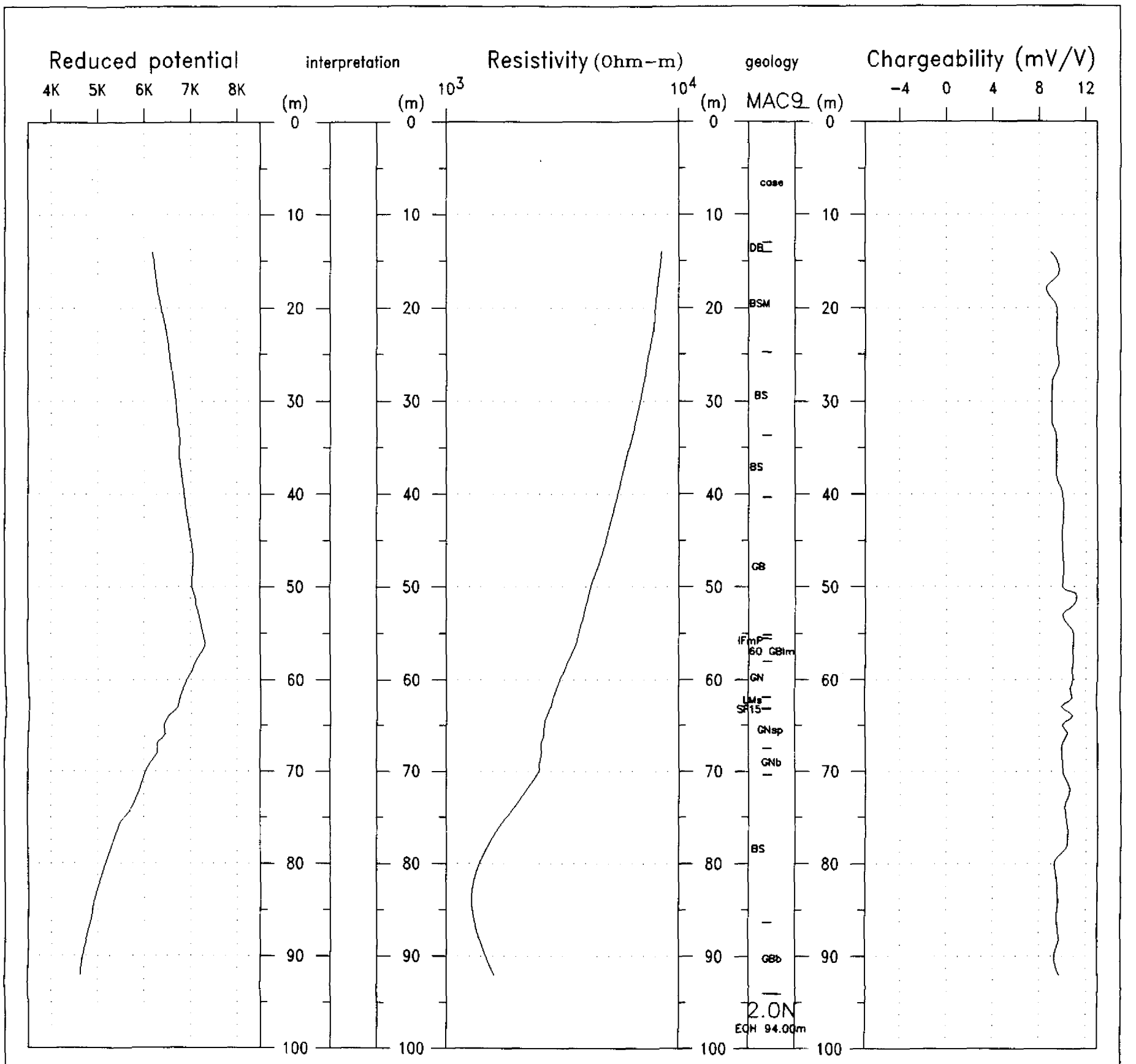
McArthur Minerals Inc.

MONETA PROJECT

HOLE MAC-8

Interpreted by Pierre Sangala
Date: July 1997
Surveyed by Pierre Sangala
Map no

Current electrode in hole MAC-11
Electrode position: -57 m



BOREHOLE MISE-A-LA-MASSE

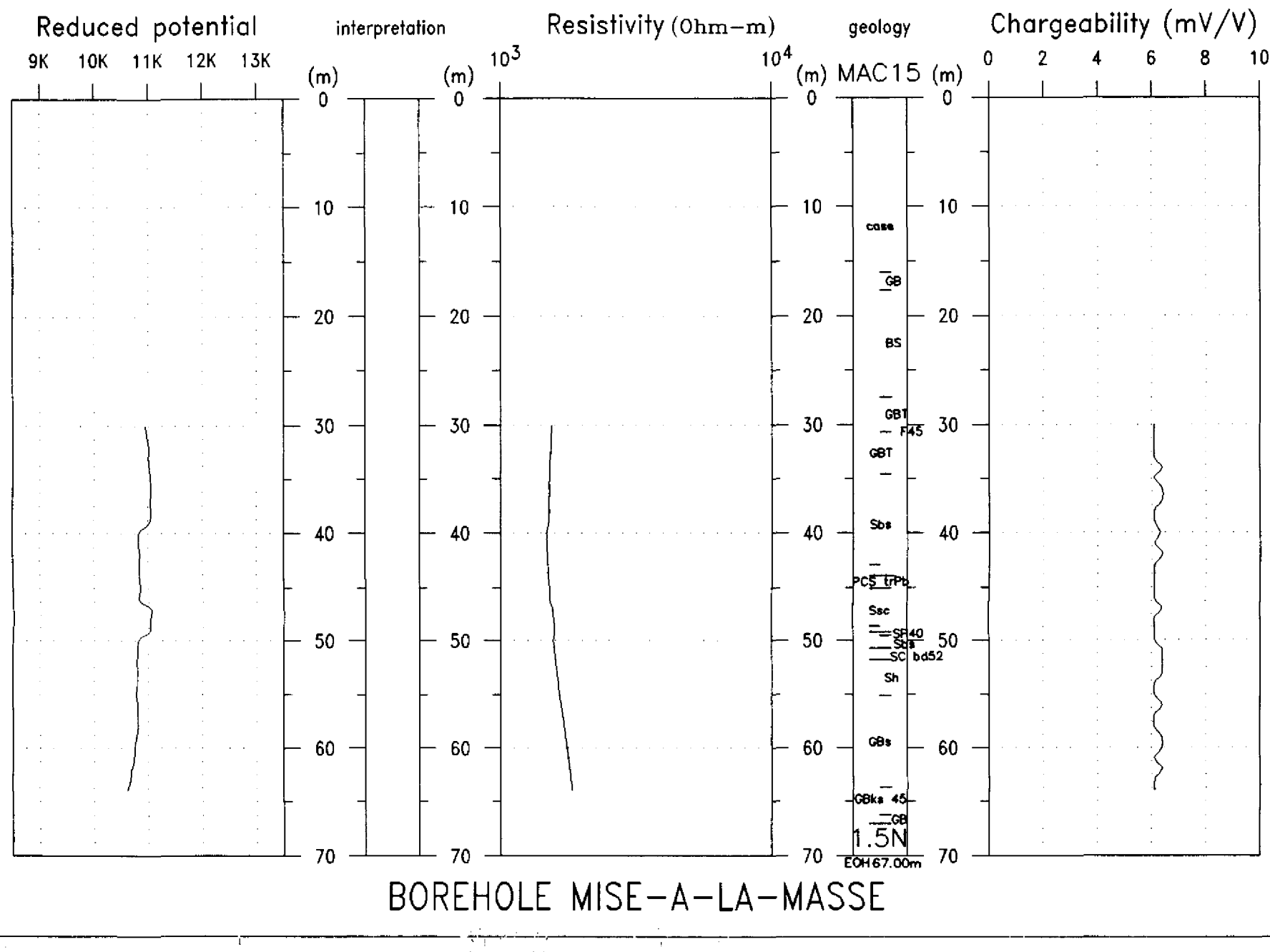
McArthur Minerals Inc.

MONETA PROJECT

HOLE MAC-9

Interpreted by Pierre Sangala
Date: July 1997
Surveyed by Pierre Sangala
Map no

Current electrode in hole MAC-11
Electrode position: -57 m



BOREHOLE MISE-A-LA-MASSE

McArthur Minerals Inc.

MONETA PROJECT

HOLE MAC-15

Interpreted by Pierre Sangala
Date: July 1997
Surveyed by Pierre Sangala
Map no

Current electrode in hole MAC-11
Electrode position: -57 m