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009001

86/14

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D. DIR.	- 3 JUL 1986			E & IL
DEPT. OF MINES				
REF. No.	64413/86			

EL 14/85 MT. CATTLEY, TASMANIA
 QUARTERLY REPORT

21st February 1986 to 20th May 1986

OPEN FILE

by

Pancontinental Mining Limited
 Sydney

D.R. Wilson
 Senior Geophysicist

Distribution:

1. PML
2. PML
3. Department of Mines, Tasmania

CONTENTS

	PAGE
1. INTRODUCTION	1
2. LOCATION AND ACCESS	1
3. TITLE	1
4. WORK ACCOMPLISHED	1
4.1 Gridding	1
4.2 Geophysics	1
5. FUTURE PROGRAMME	2
6. EXPENDITURE	2

FIGURES

	<u>Scale</u>
1. Location Plan - Mt. Cattley Project	1:100,000
2. Grid Plan - Mt. Cattley Project (Dwg. No. 36/E/1)	1:10,000

SIROTEM PROFILES

	<u>Scale</u>
9000N	1:10,000
10000N	1:10,000
11000N	1:10,000
12000N	1:10,000
13000N	1:10,000
Beecroft Road	1:10,000

1.0 INTRODUCTION

This report describes the work carried out on EL 14/85 during the period 21st February to 20th May 1986.

2.0 LOCATION AND ACCESS (See Figure 1)

The Exploration Licence is located approximately 10km southeast of Guilford and 55km south of Burnie. Access is either via the Murchison Highway and Guilford or via Hampshire and then private roads of Australian Forest Holdings. Within the Licence area there is a well developed network of all weather 2-wheel drive logging roads constructed and maintained by Australian Forest Holdings. A permit is required to use these roads and some have locked gates.

3.0 TITLE

Exploration Licence 14/85 was granted to Pancontinental Mining Limited on 21 August 1985 for a period of one year.

4.0 WORK ACCOMPLISHED

4.1 Gridding

A wide spaced grid, totalling 26.8km, was established over the south central portion of the EL (see Figure 2). Five cross lines, one kilometre apart, from 9000N to 13000N were cleared using a bulldozer. Beecroft Road was pegged from the 10000N line to its junction with Black Marsh Road in the north eastern corner of the EL.

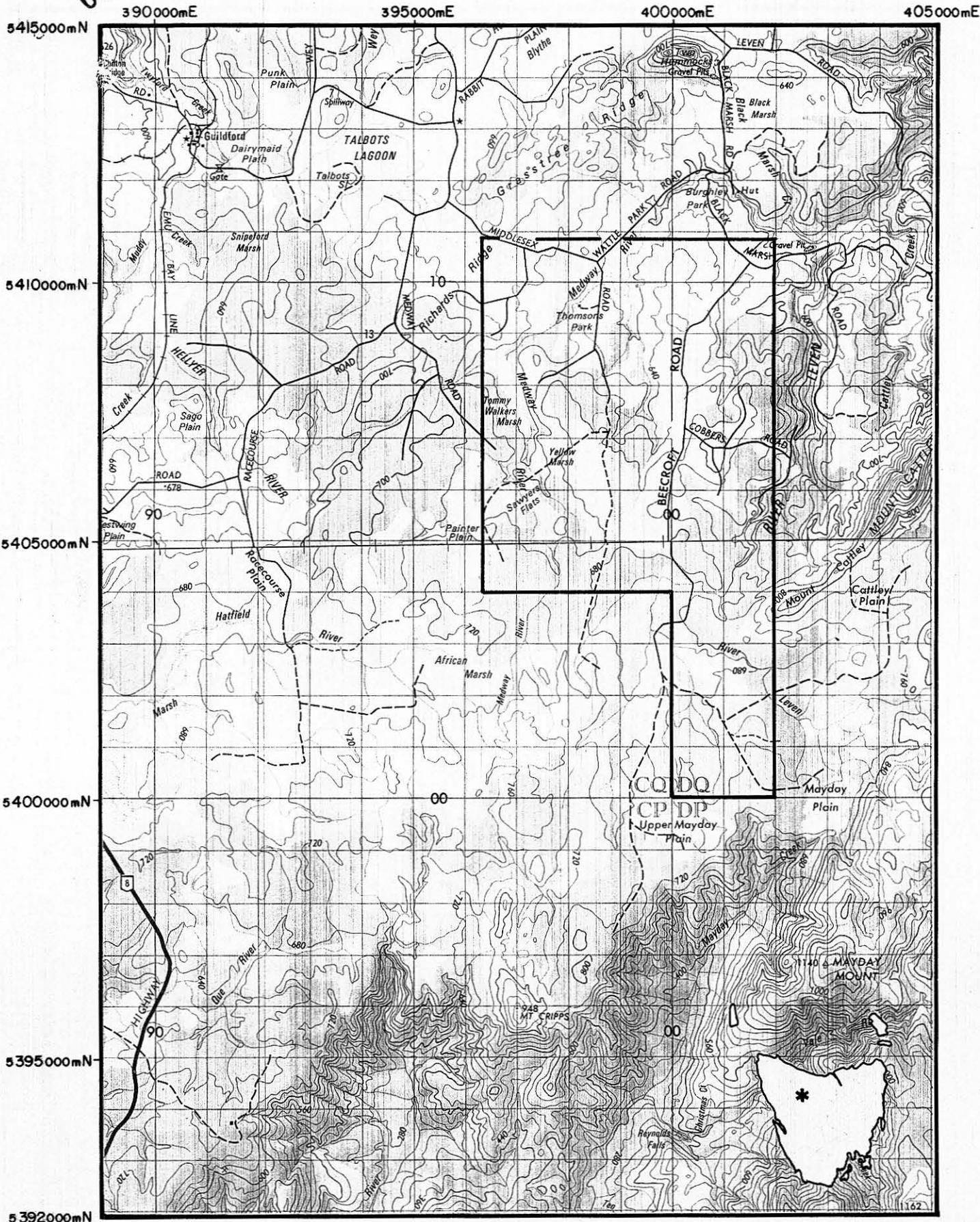
4.2 Geophysics

A contract geophysical crew has surveyed the 26.8 kilometres of grid using a medium powered Sirotem unit. A loop size of 200m with a centrally located receiver was used. Both early time and standard time voltage decays were measured at stations 200m apart. Copies of the profiles are attached.

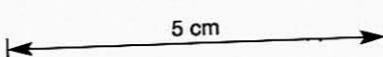
Preliminary interpretation indicates that the basalt thickness is > 100m over most of the grid. There are no obvious strong to moderate conductors that may represent Hellyer type orebodies, beneath the thinner basalt.

003

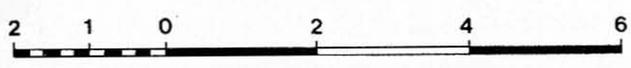
009004



LOCATION PLAN
MOUNT CATTLEY E.L. 14/85 - TASMANIA



Scale 1:100 000



KILOMETRES

FIG.1

5.0 FUTURE PROGRAMME

Computer assisted interpretation of the basalt thickness and any possible bedrock conductors. The interpretation will be drill tested at selected locations. If the Sirotem interpreted depths are reasonable then infill Sirotem will be used to survey those areas of < 100m basalt thickness to search for a conductive orebody.

6.0 EXPENDITURE

The expenditure for the quarter totalled \$50,747 which was made up as follows:

Manning	\$ 5,774
Materials and Supplies	78
Consultants and Contractors	29,374
Travel, Freight and Equipment	7,329
Repairs and Maintenance	137
Administration Expenses	1,183
Overheads	6,872

50,747



SIROTEM SURVEY

CLIENT PANCO TINEGAL

AREA MT. CATTLEY

LINE NO 9000N

LOOP CONFIG RVR in loop

LOOP DIMENSION 200m

STATION INTERVAL 200m

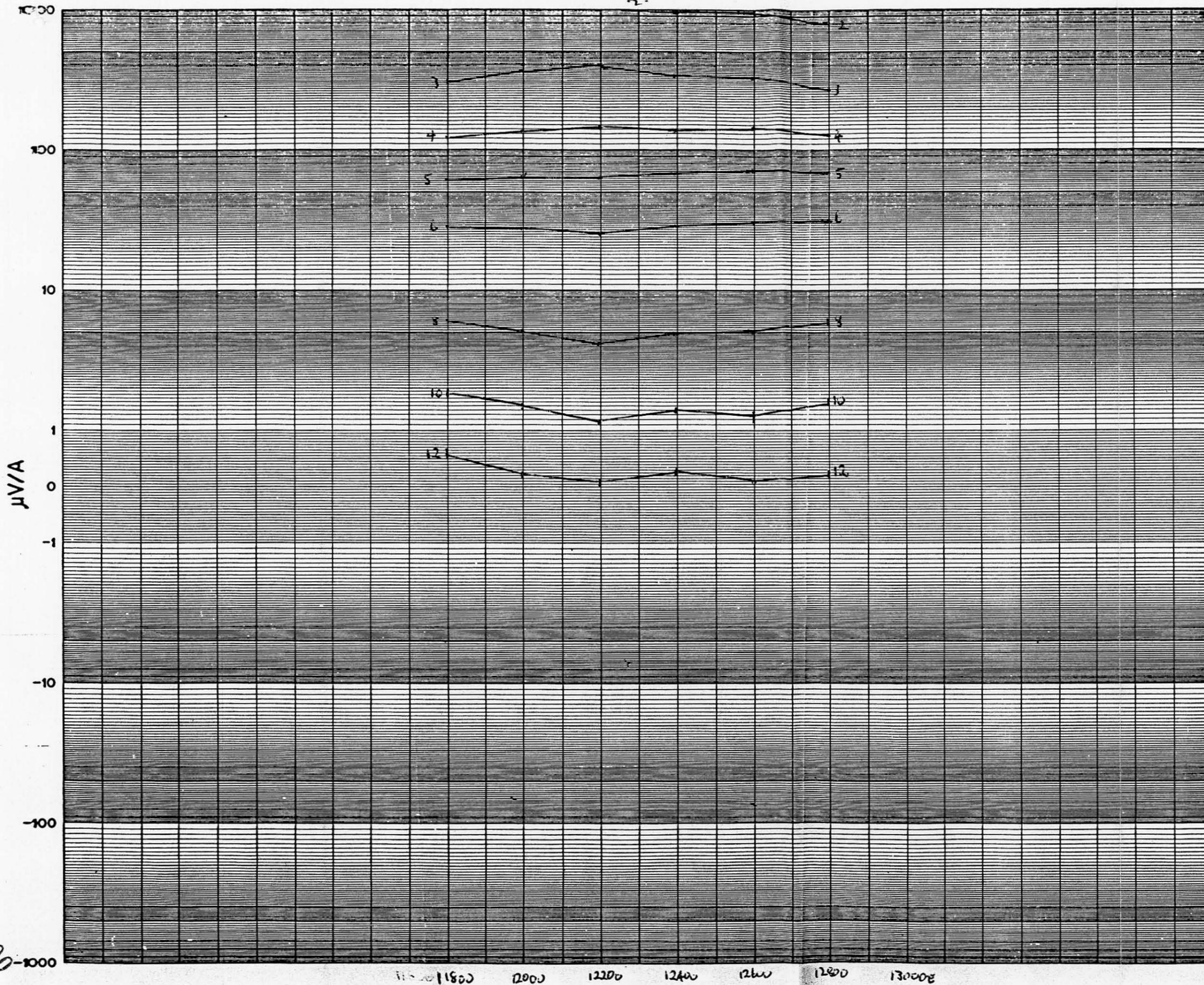
STACKS 256

SFERICS OFF

INST. SERIAL NO 1236

OPERATOR P. M. SKIMMING

DATE 29, 30, 31, 86



LOOP DIAGRAMS ETC.



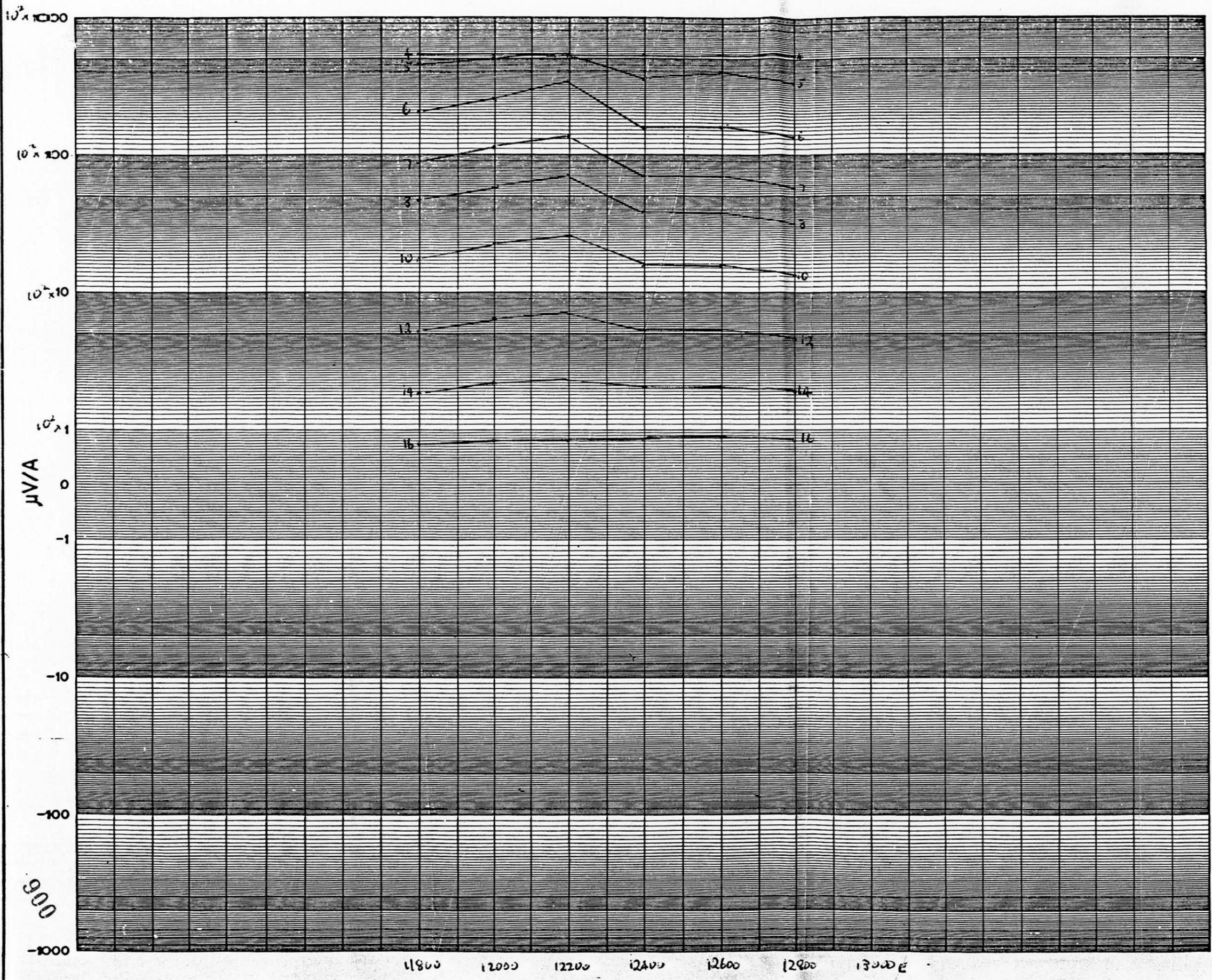
SIROTEM SURVEY

CLIENT PANCONTINENTAL
AREA MT. CATTLEY
LINE NO 9000N

LOOP CONFIG RVR in loop
LOOP DIMENSION 200m

STATION INTERVAL 200m
STACKS 256
SFERICS OFF
INST. SERIAL NO 1236

OPERATOR P. McSKIMMING
DATE 29. 30-7-86



LOOP DIAGRAMS ETC.



SIROTEM SURVEY

CLIENT PANCONTINENTAL

AREA MT. CATTLEY

LINE NO 11000N

LOOP CONFIG RVA in loop

LOOP DIMENSION 200m

STATION INTERVAL 200m

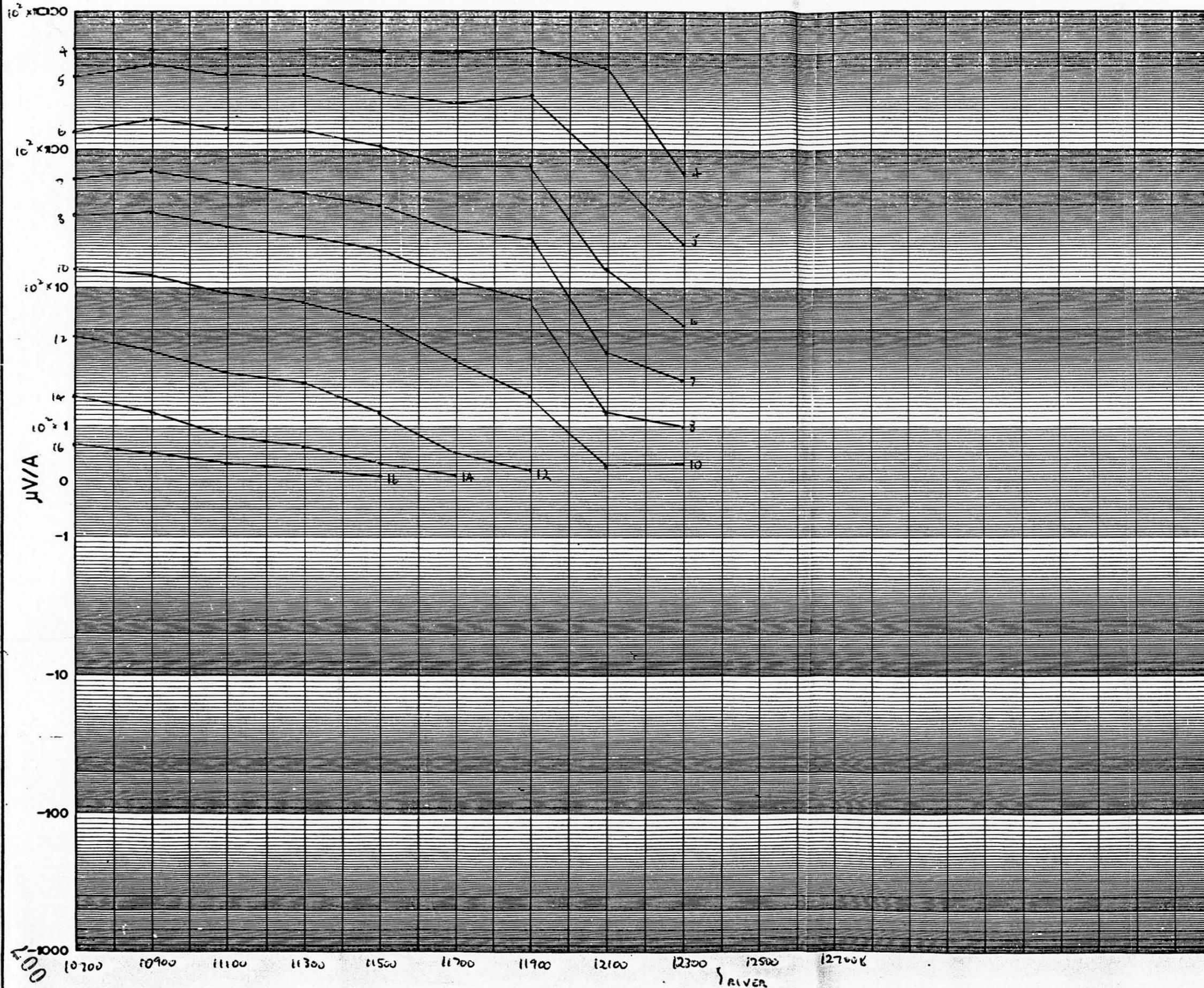
STACKS 256

SFERICS OFF

INST. SERIAL NO 1236

OPERATOR P. McSKIMMING

DATE 23, 24-3-86



LOOP DIAGRAMS ETC.

TD 141 μ sec



SIROTEM SURVEY

CLIENT PAN CONTINENTAL

AREA MR. CATTLEY

LINE NO 11000N

LOOP CONFIG RVR in loop

LOOP DIMENSION 200m

STATION INTERVAL 200m

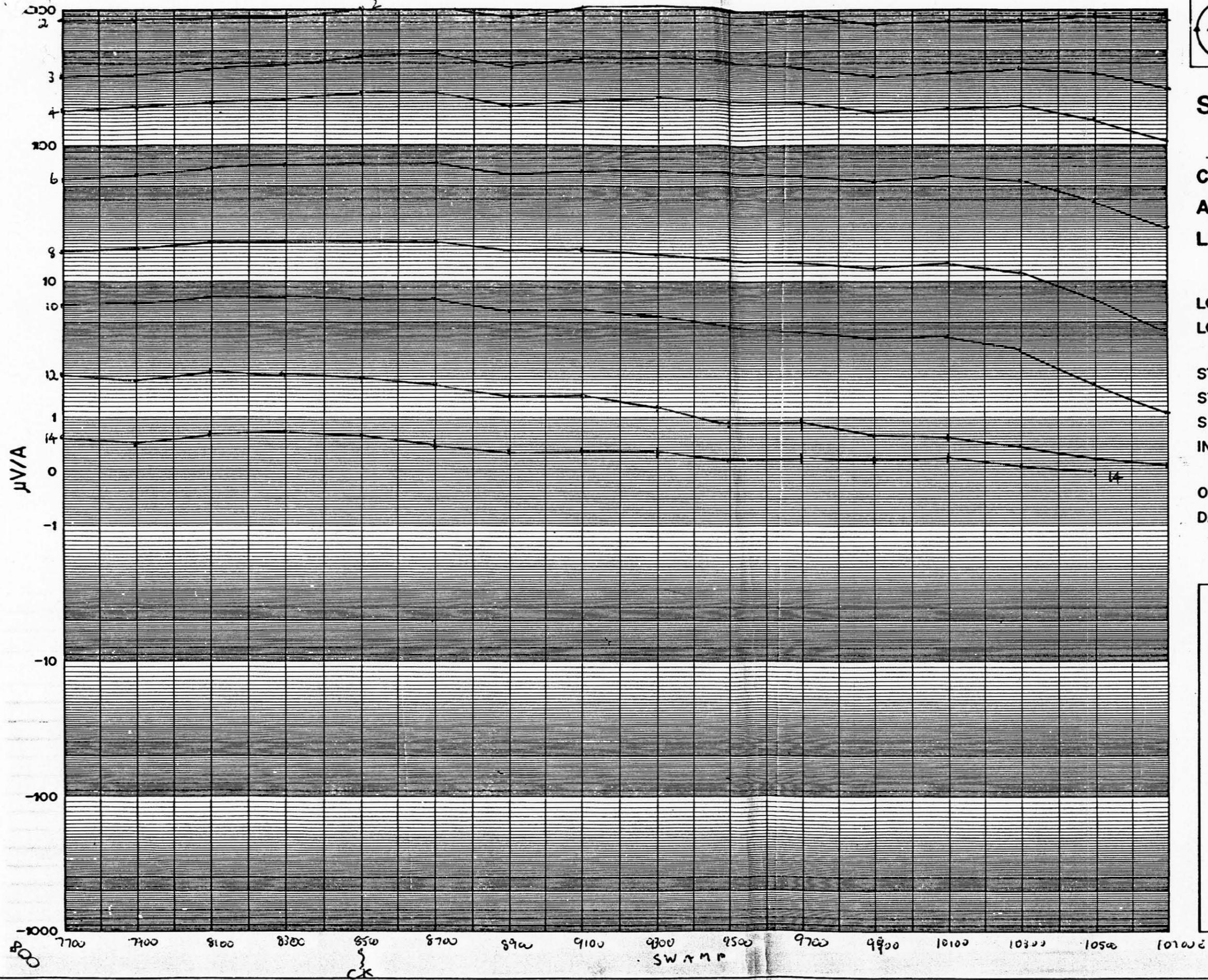
STACKS 2.56

SFERICS OFF

INST. SERIAL NO 1236

OPERATOR P. McSKIMMING

DATE 22 23-3-80



LOOP DIAGRAMS ETC.

T₁₀ 145 µsec

009010



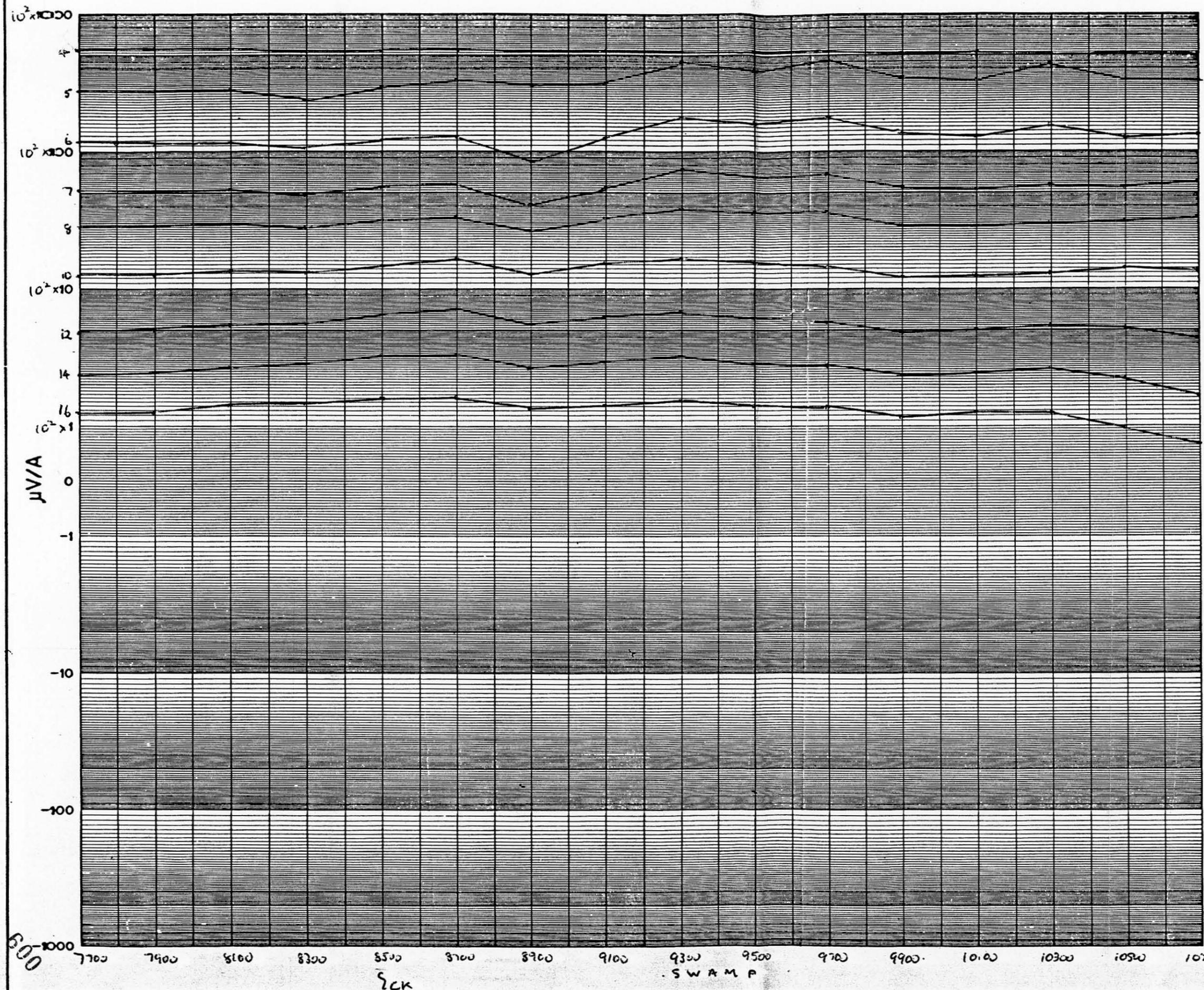
SIROTEM SURVEY

CLIENT PAN CONTINENTAL
AREA MT. CATTLEY
LINE NO 11000N

LOOP CONFIG RVR in Loop
LOOP DIMENSION 200m

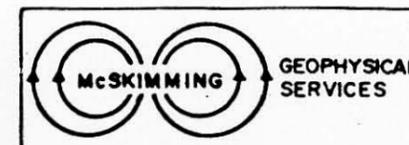
STATION INTERVAL 200m
STACKS 256
SPHERICS OFF
INST. SERIAL NO 1236

OPERATOR P. McSKIMMING
DATE 22, 2.2.86



LOOP DIAGRAMS ETC.

T, 2. 145 μ sec



SIROTEM SURVEY

CLIENT PAN CONTINENTAL

AREA MT. CATTLEY

LINE NO 1100DN

LOOP CONFIG RVR in Loop

LOOP DIMENSION 200m

STATION INTERVAL 200m

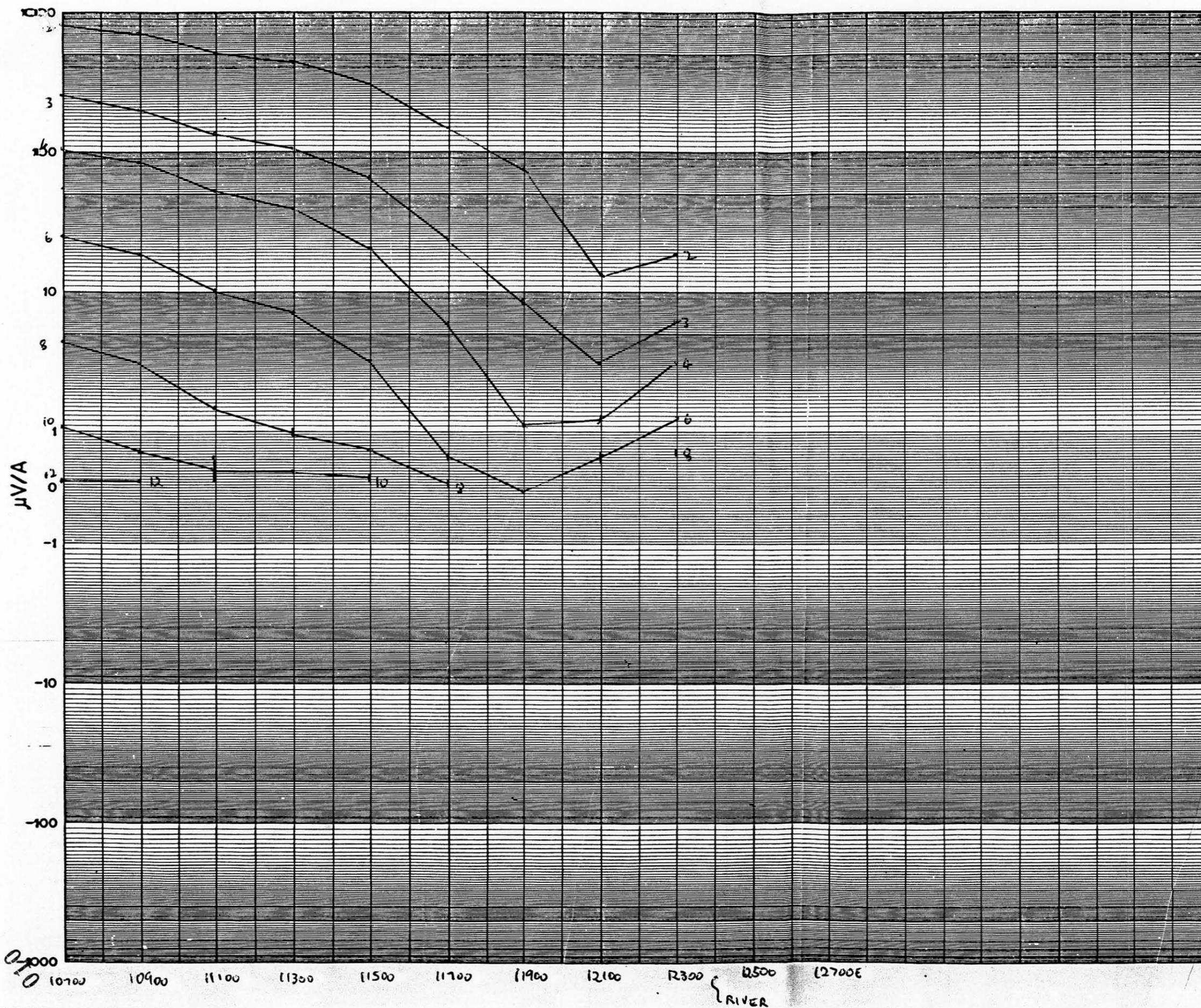
STACKS 256

SFERICS OFF

INST. SERIAL NO 1236

OPERATOR P. M. SKIMMING

DATE 23, 24-3-86



LOOP DIAGRAMS ETC.

To 141 µ sec



SIROTEM SURVEY

CLIENT PANCONTINENTAL

AREA MT. CATTLE

LINE NO 10002N

LOOP CONFIG RVR in loop

LOOP DIMENSION 200m

STATION INTERVAL 200m

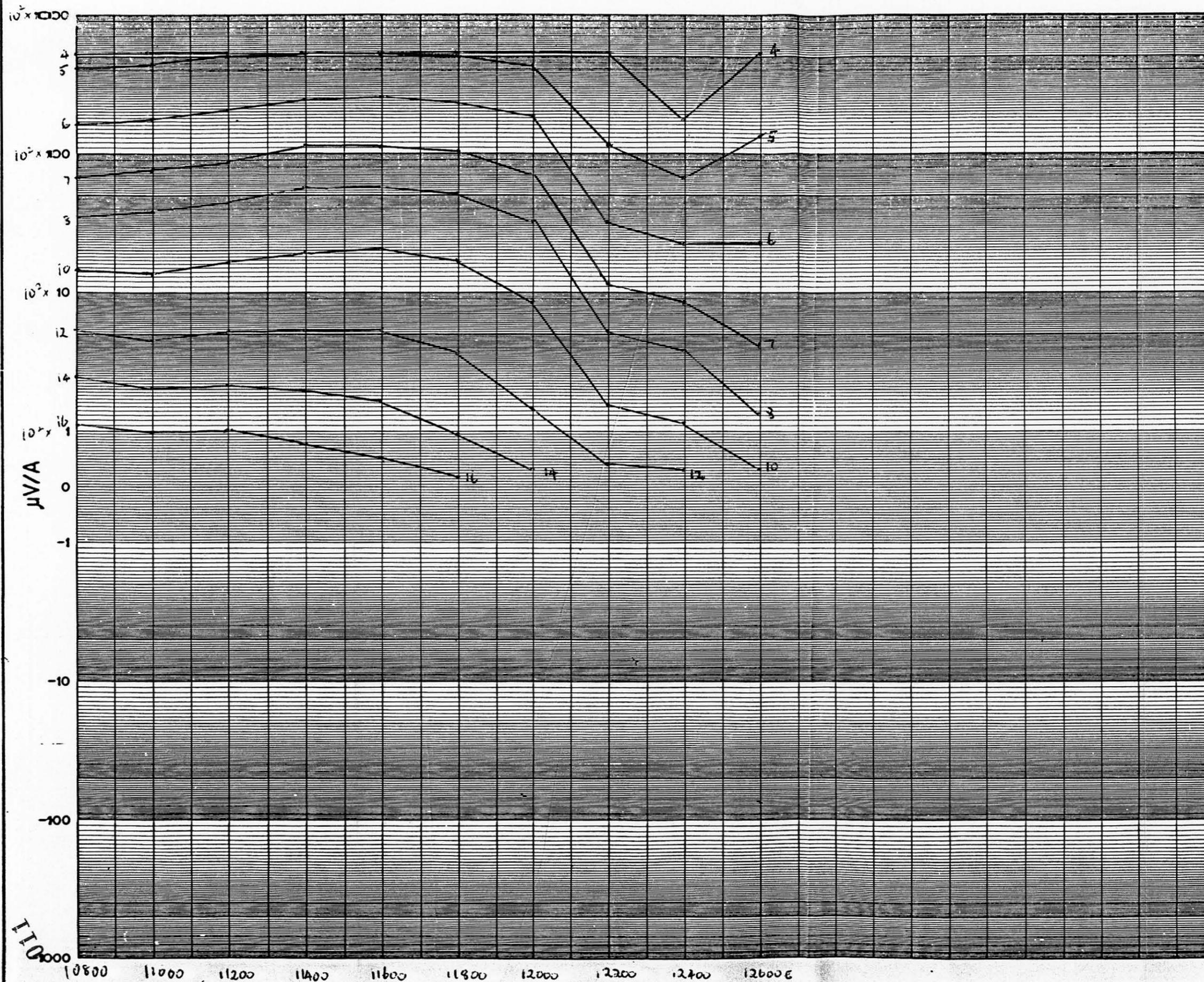
STACKS 256

SFERICS OFF

INST. SERIAL NO 1236

OPERATOR P. McSKIMMING

DATE 4, 5-4-86



LOOP DIAGRAMS ETC.



SIROTEM SURVEY

CLIENT PANCONTINENTAL

AREA MT. CATTLEY

LINE NO 10000N

LOOP CONFIG AVR. in loop

LOOP DIMENSION 200m

STATION INTERVAL 200m

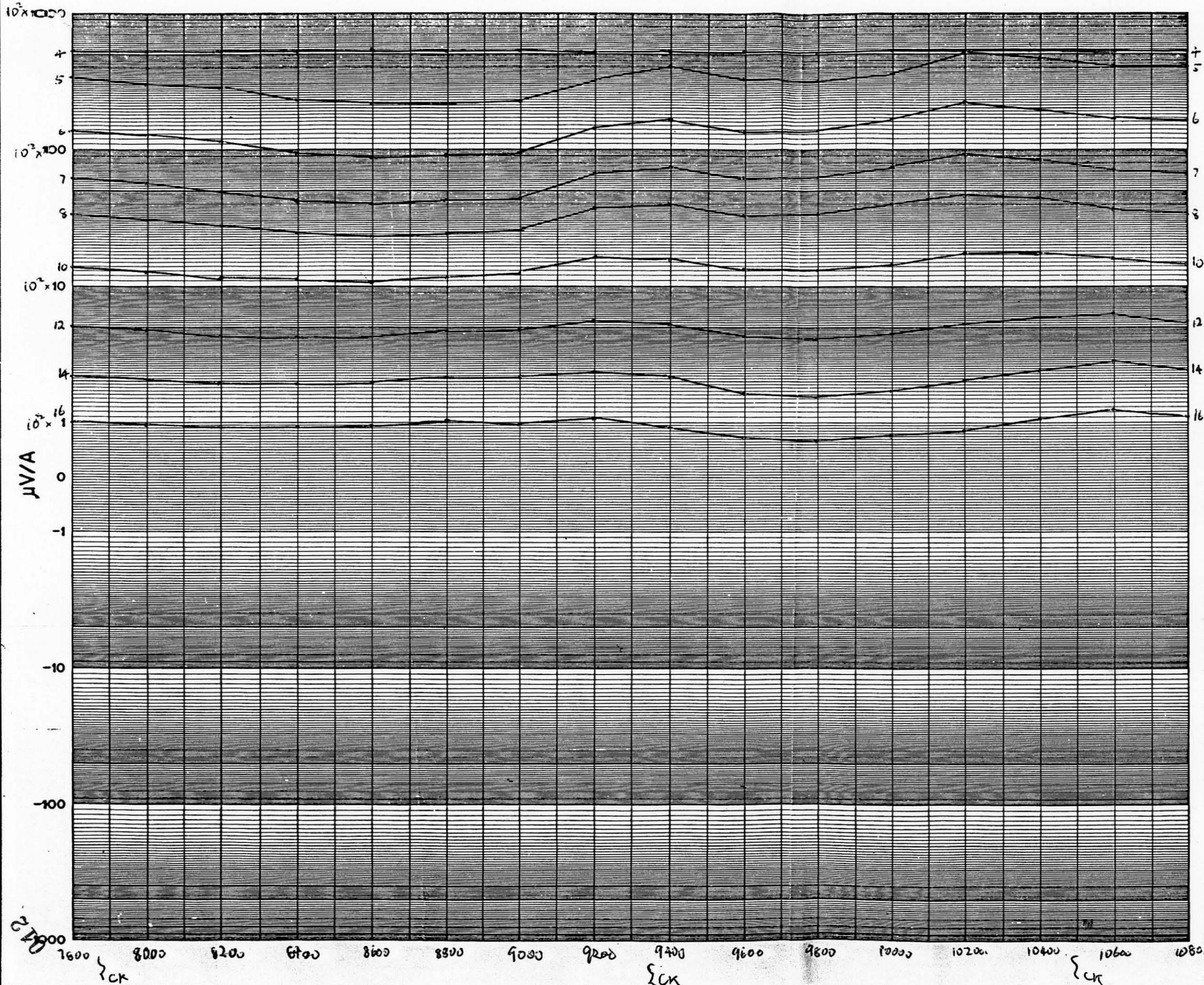
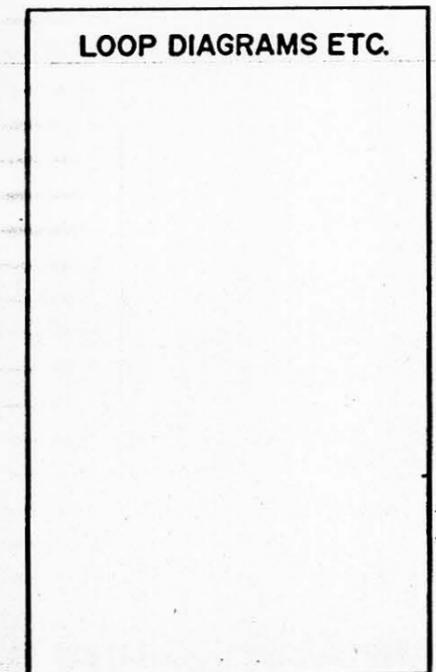
STACKS 256

SFERICS OFF

INST. SERIAL NO 1236

OPERATOR D. McSKIMMING

DATE 4-4-86





SIROTEM SURVEY

CLIENT PANCONTINENTAL

AREA MT. CATTLE

LINE NO 1000N

LOOP CONFIG RVR in loop

LOOP DIMENSION 200m

STATION INTERVAL 200m

STACKS 256

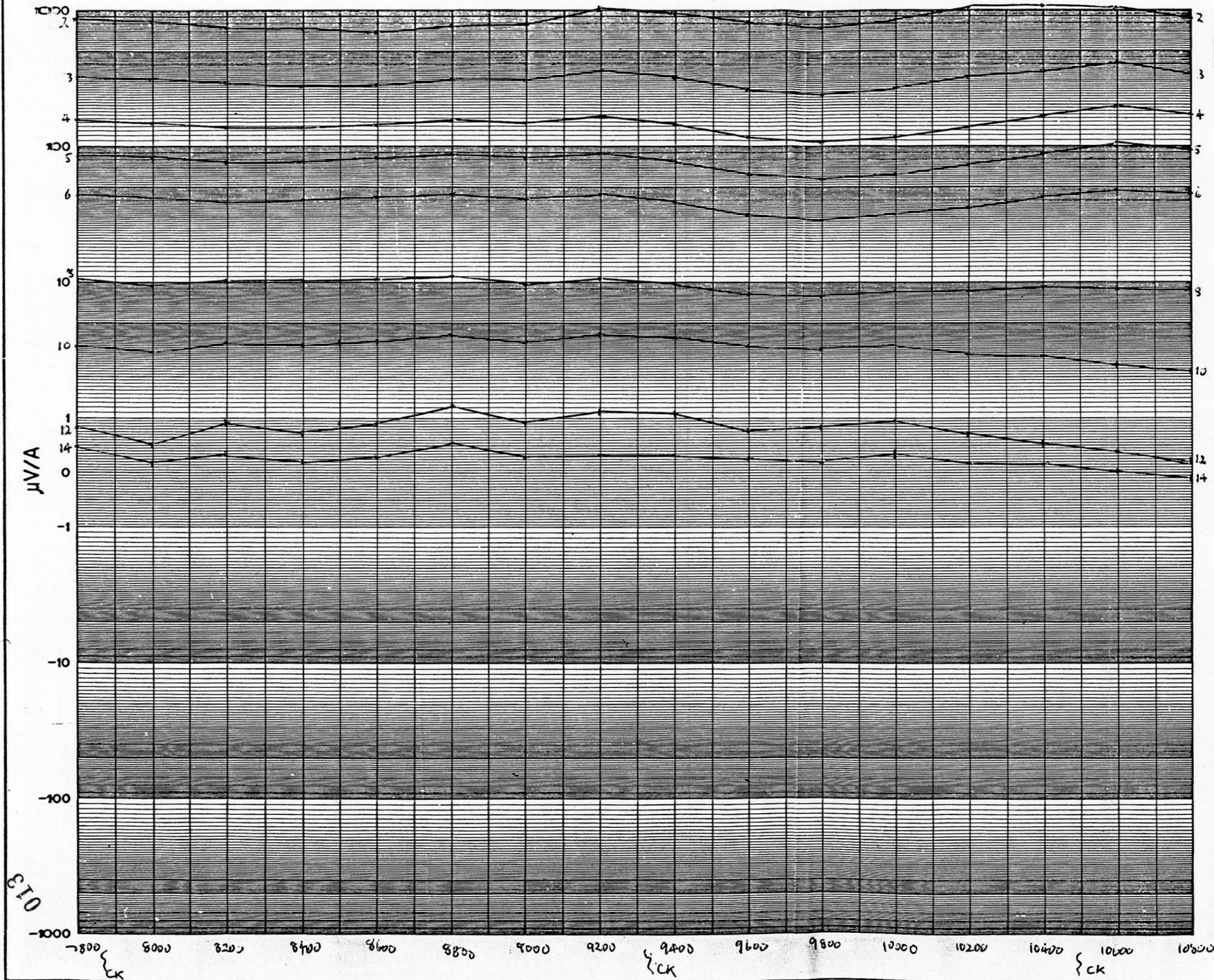
SFERICS OFF

INST. SERIAL NO 1236

OPERATOR P.M. SKIMMING

DATE 4-4-86

LOOP DIAGRAMS ETC.



STO

7800 8000 8200 8400 8600 8800 9000 9200 9400 9600 9800 10000 10200 10400 10600



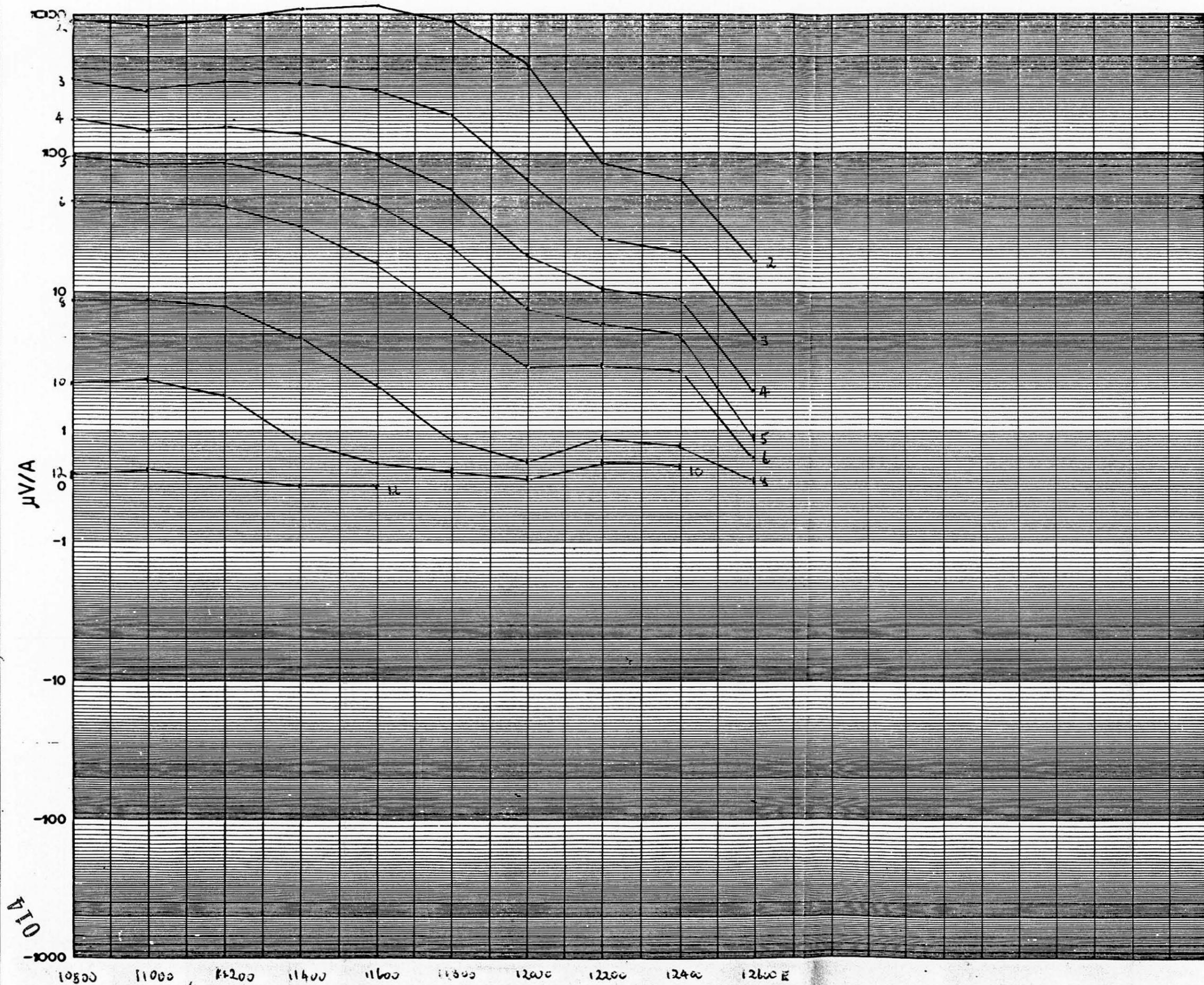
SIROTEM SURVEY

CLIENT PAN CONTINENTAL
 AREA MT. CATLEY
 LINE NO 1000N

LOOP CONFIG AVR in loop
 LOOP DIMENSION 200m

STATION INTERVAL 200m
 STACKS 256
 SFERICS OFF
 INST. SERIAL NO 1236

OPERATOR P. McSKIMMING
 DATE 7, 5-4-86



LOOP DIAGRAMS ETC.



SIROTEM SURVEY

CLIENT PANCONTINENTAL

AREA M^o CATTLE

LINE NO 1300N

LOOP CONFIG AVR in loop

LOOP DIMENSION 200m

STATION INTERVAL 200m

STACKS 512 x 256

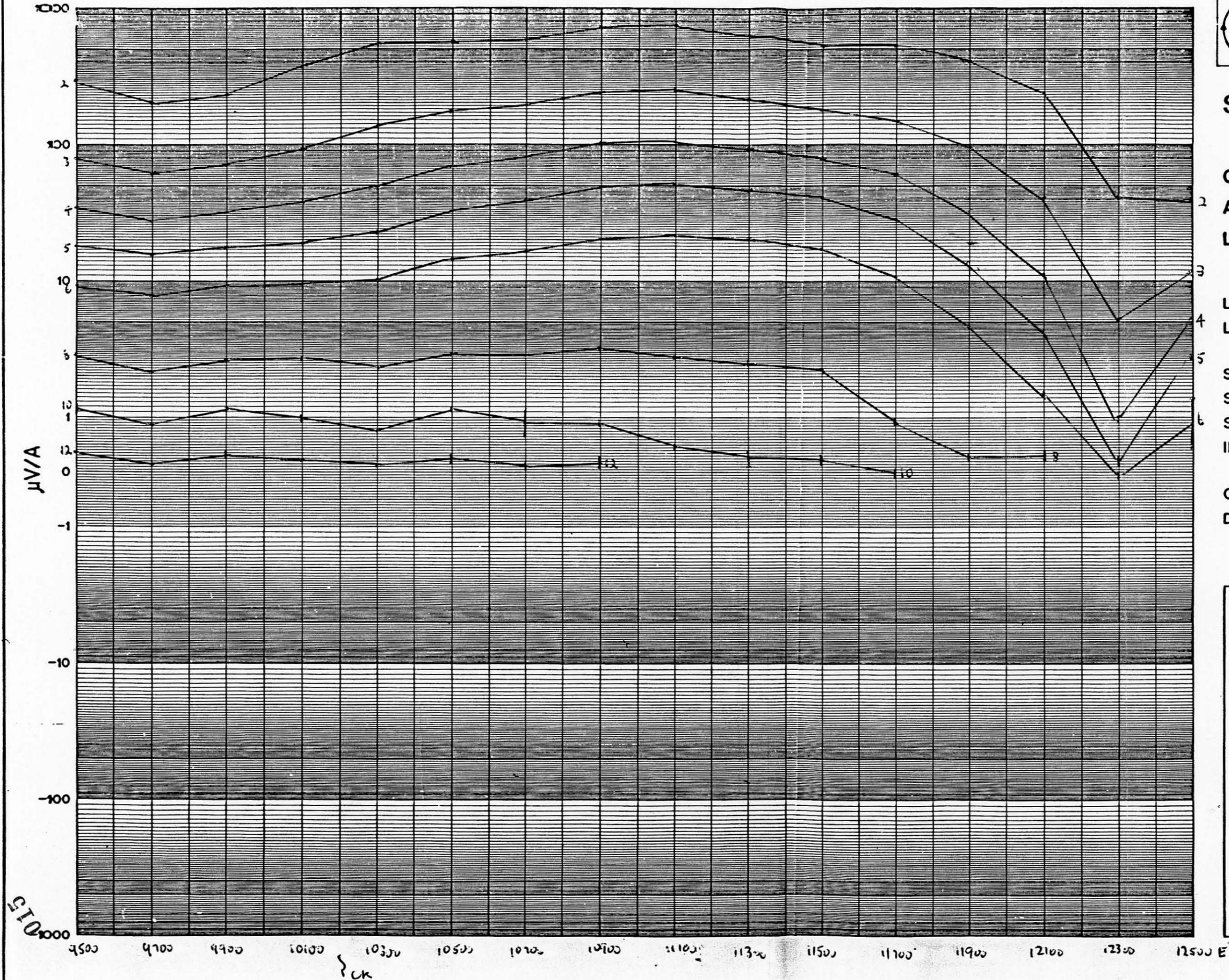
SFERICS OFF

INST. SERIAL NO 1236

OPERATOR P. McSKIMMING

DATE 27-3-86

LOOP DIAGRAMS ETC.



000015



SIROTEM SURVEY

CLIENT PANCONTINENTAL

AREA MT. CATTLEY

LINE NO 13000 N

LOOP CONFIG RVR in loop

LOOP DIMENSION 200m

STATION INTERVAL 200m

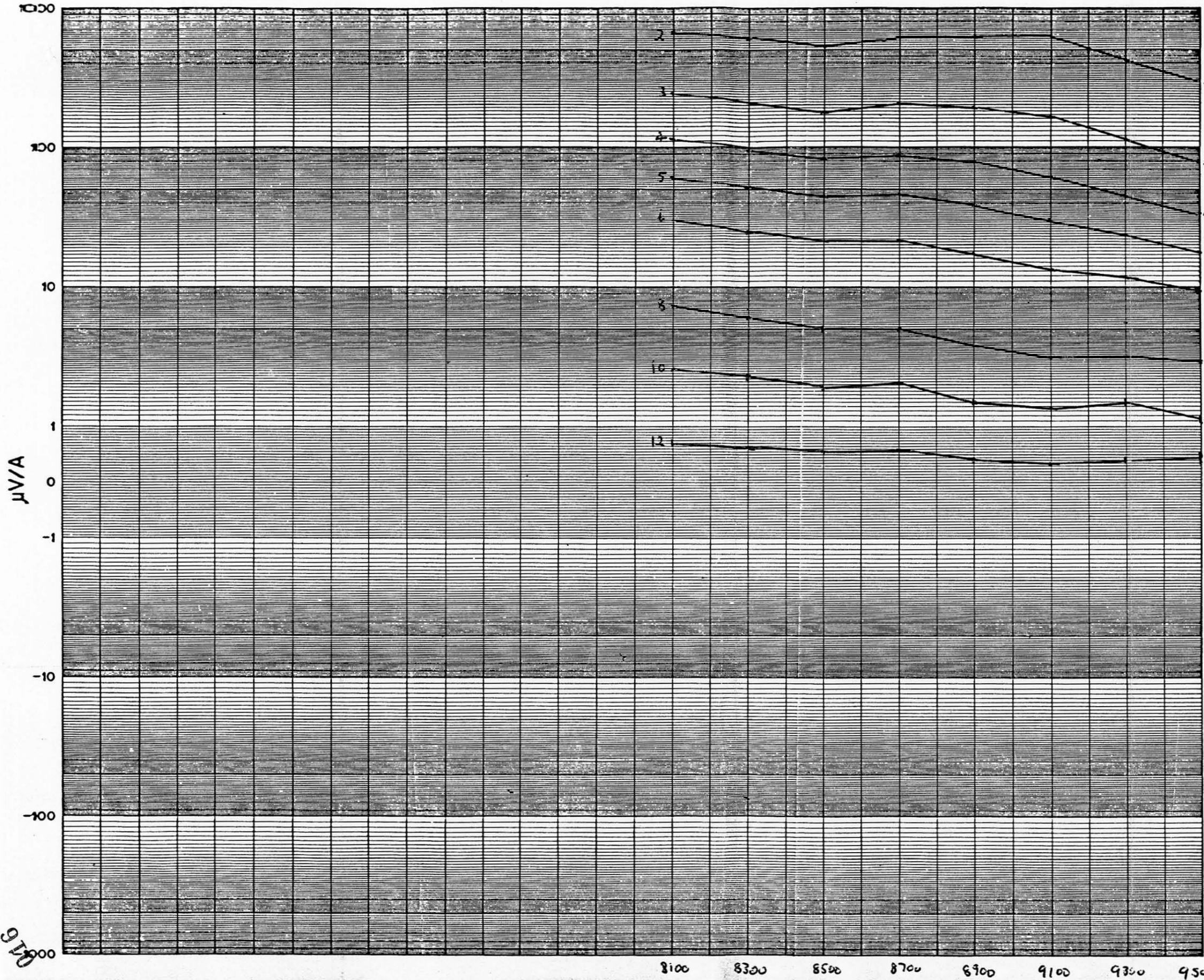
STACKS 256

SFERICS OFF

INST. SERIAL NO 1236

OPERATOR P. McSKIMMING

DATE 29-3-86



LOOP DIAGRAMS ETC.

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017

009018



SIROTEM SURVEY

CLIENT PANCONTINENTAL

AREA MT. CATLEY

LINE NO 1300N

LOOP CONFIG B.V.R. in loop

LOOP DIMENSION 200m

STATION INTERVAL 200m

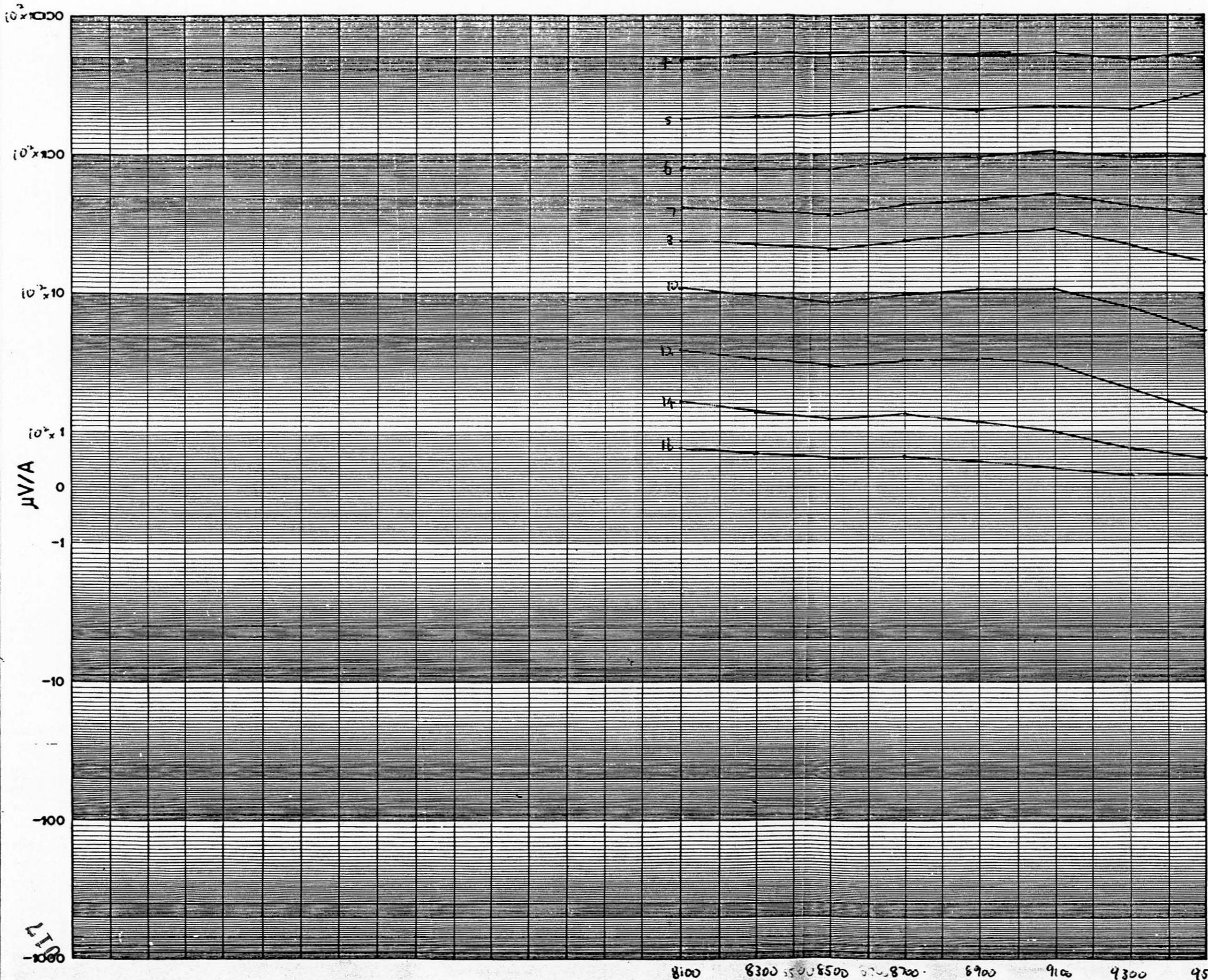
STACKS 256

SFERICS REF

INST. SERIAL NO 1236

OPERATOR P. McSKIMMING

DATE 29-3-86



LOOP DIAGRAMS ETC.

17
1000

009019



SIROTEM SURVEY

CLIENT PANCONVINCENTAL

AREA M^o CATTLEY

LINE NO 13000N

LOOP CONFIG RVR in loop

LOOP DIMENSION 200m

STATION INTERVAL 200m

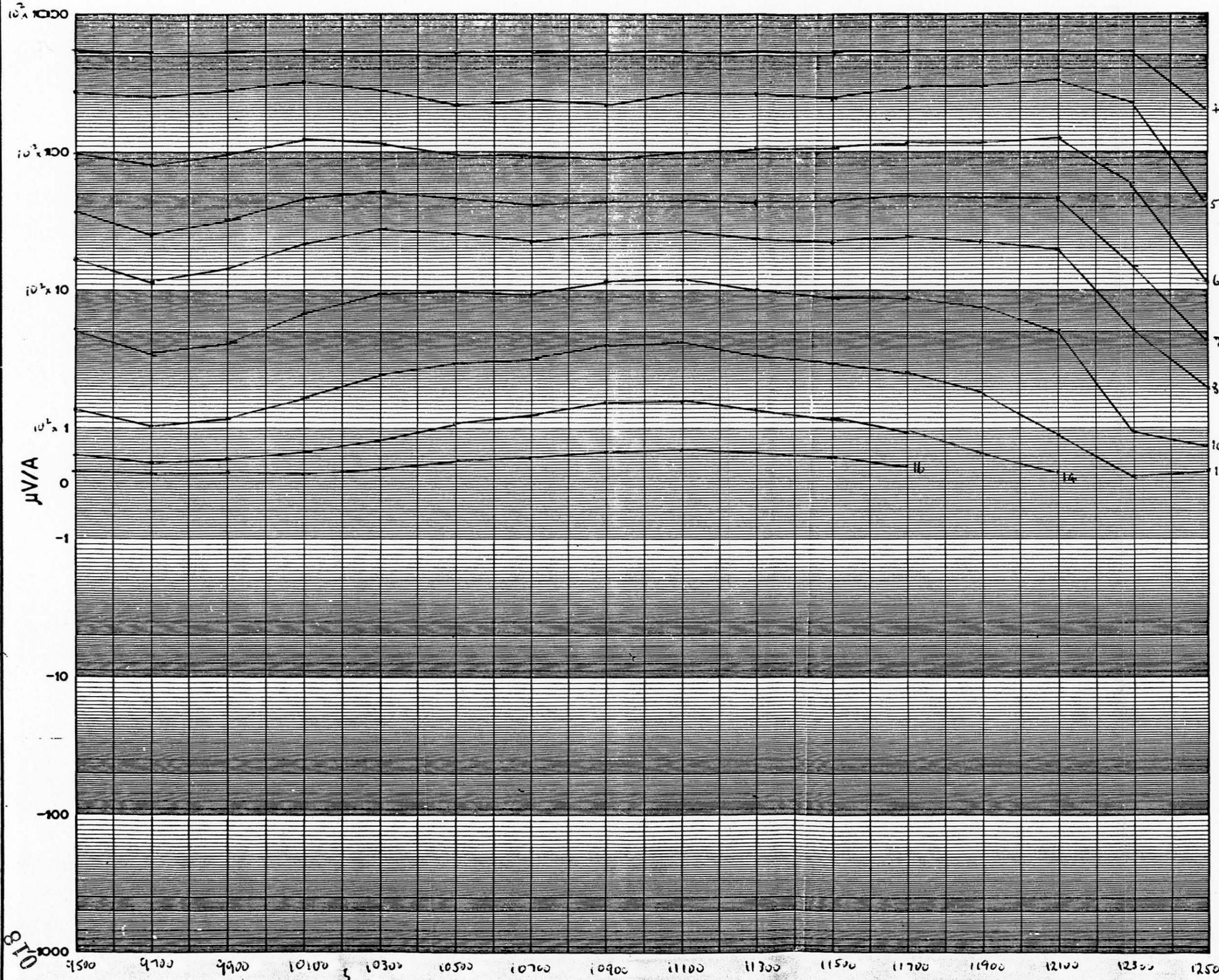
STACKS 512 + 356

SFERICS OFF

INST. SERIAL NO 1236

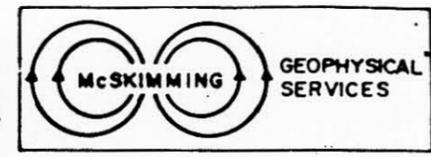
OPERATOR P. McSKIMMING

DATE 27-3-86



LOOP DIAGRAMS ETC.

009020

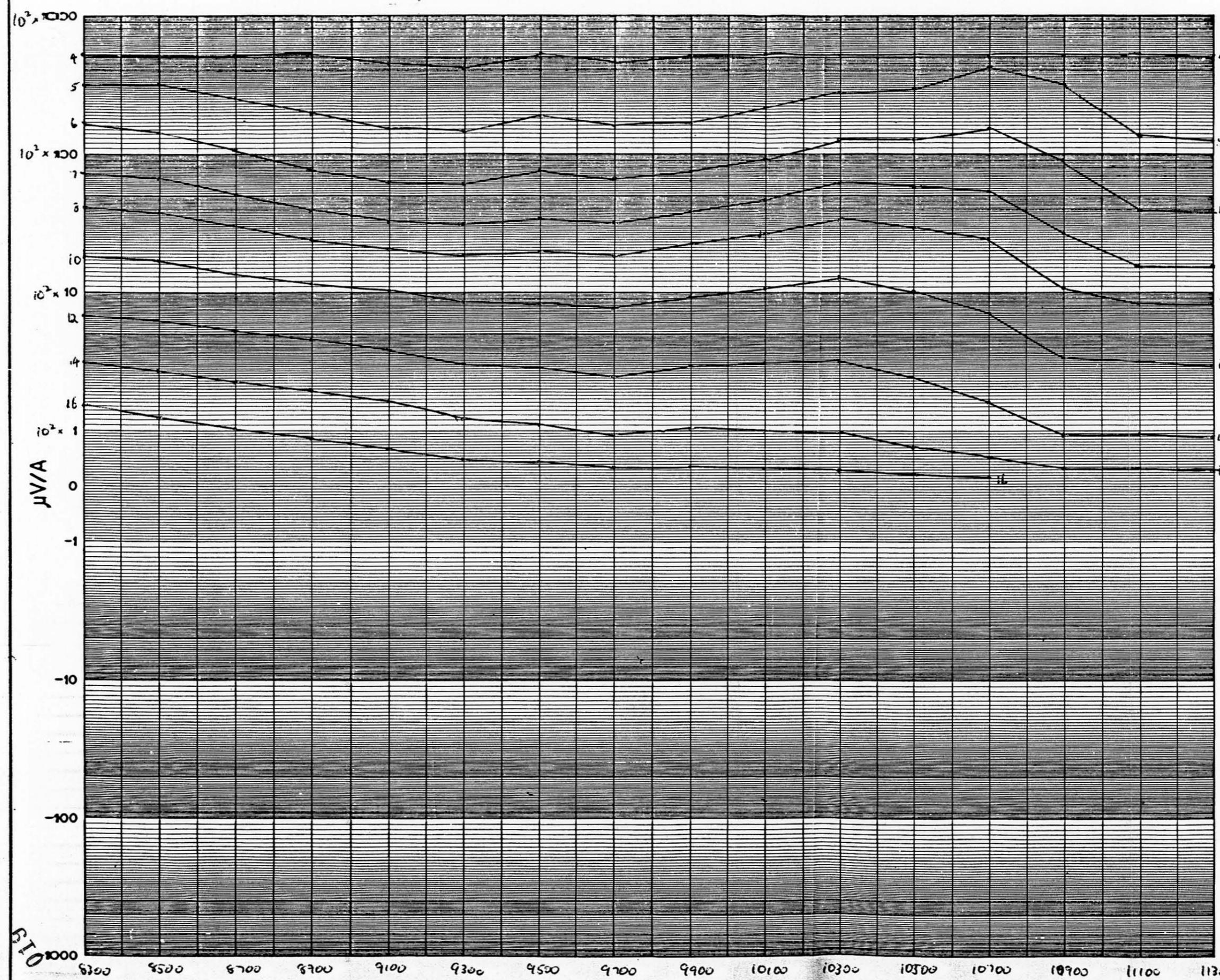


SIROTEM SURVEY

CLIENT PAN CONTINENTAL
 AREA MT. CATTLEY
 LINE NO 1200W
 LOOP CONFIG RVA in loop
 LOOP DIMENSION 200m
 STATION INTERVAL 200m
 STACKS 256
 SFERICS OFF
 INST. SERIAL NO 1236

OPERATOR P. McSKIMMING
 DATE 25, 26-35

LOOP DIAGRAMS ETC.
 T.O. 140 μ sec



BTO

CK

009021



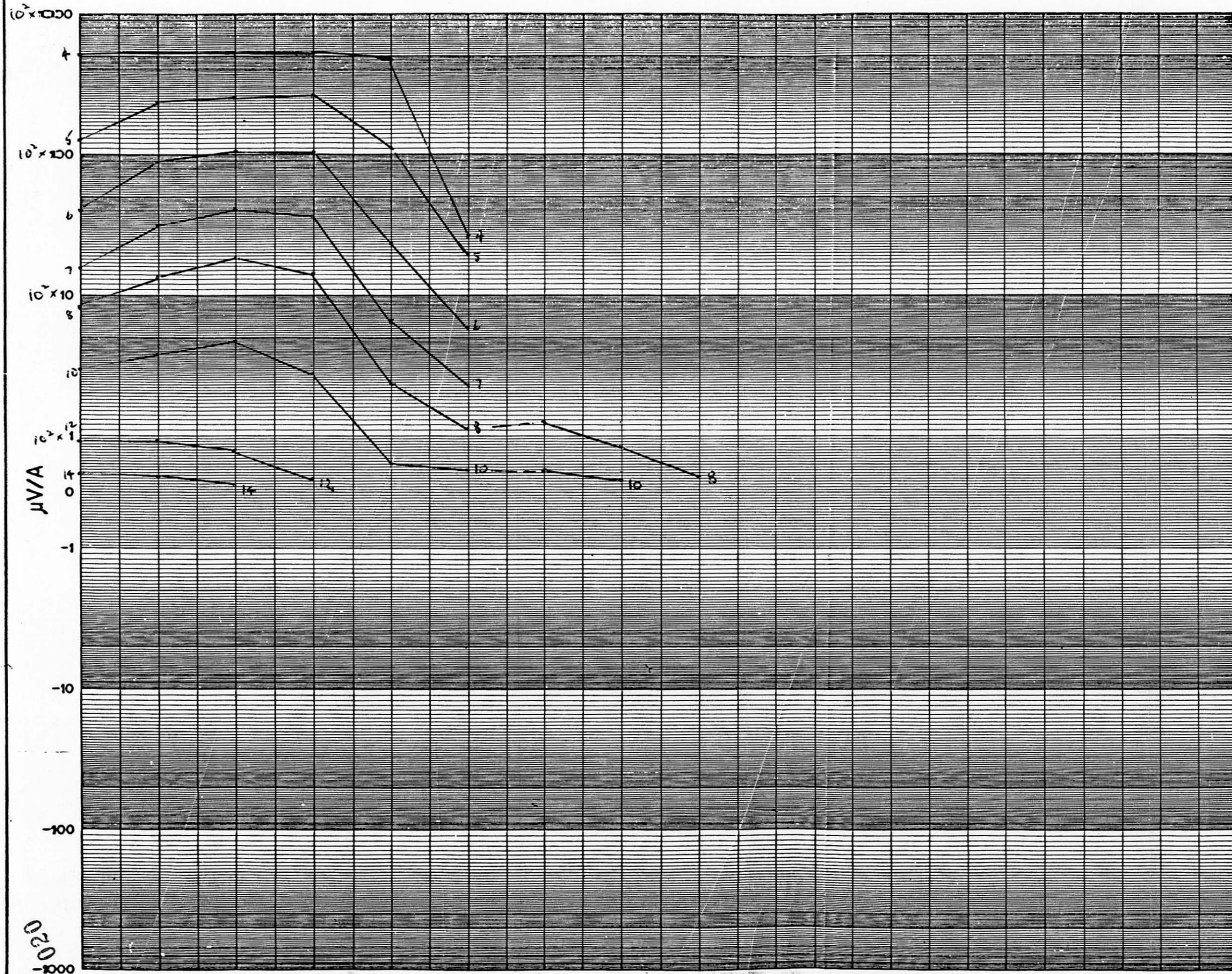
SIROTEM SURVEY

CLIENT PAN CONTINENTAL
AREA MT CATTLEY
LINE NO 12000N

LOOP CONFIG RVR in loop
LOOP DIMENSION 200m

STATION INTERVAL 200m
STACKS 256
SFERICS OFF
INST. SERIAL NO 1236

OPERATOR P. McSKIMMING
DATE 26-3-95



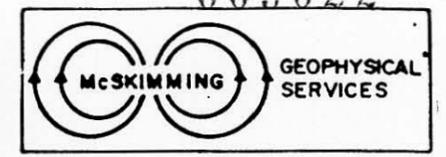
LOOP DIAGRAMS ETC.

140 μsec

0020

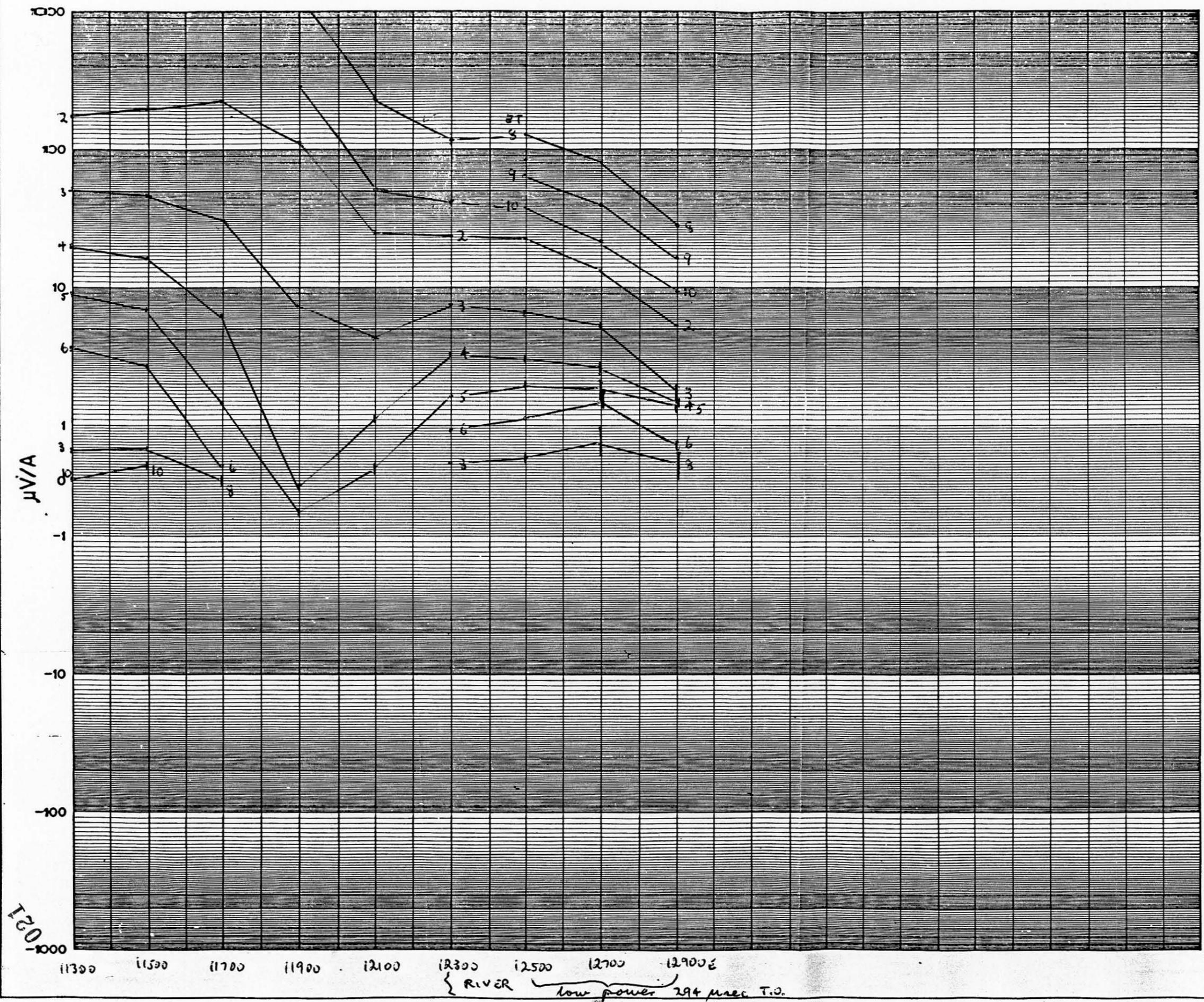
11300 11500 11700 11900 12100 12300 12500 12700 12900 E
RIVER low power 294 μsec T10.

009022



SIROTEM SURVEY

CLIENT PANCONTINENTAL
 AREA MT. CATLEY
 LINE NO 1200N
 LOOP CONFIG RVR in loop
 LOOP DIMENSION 200m
 STATION INTERVAL 200m
 STACKS 256
 SPHERICS OFF
 INST. SERIAL NO 1236
 OPERATOR P. McSKIMMING
 DATE 26-3-85



LOOP DIAGRAMS ETC.

140 msec

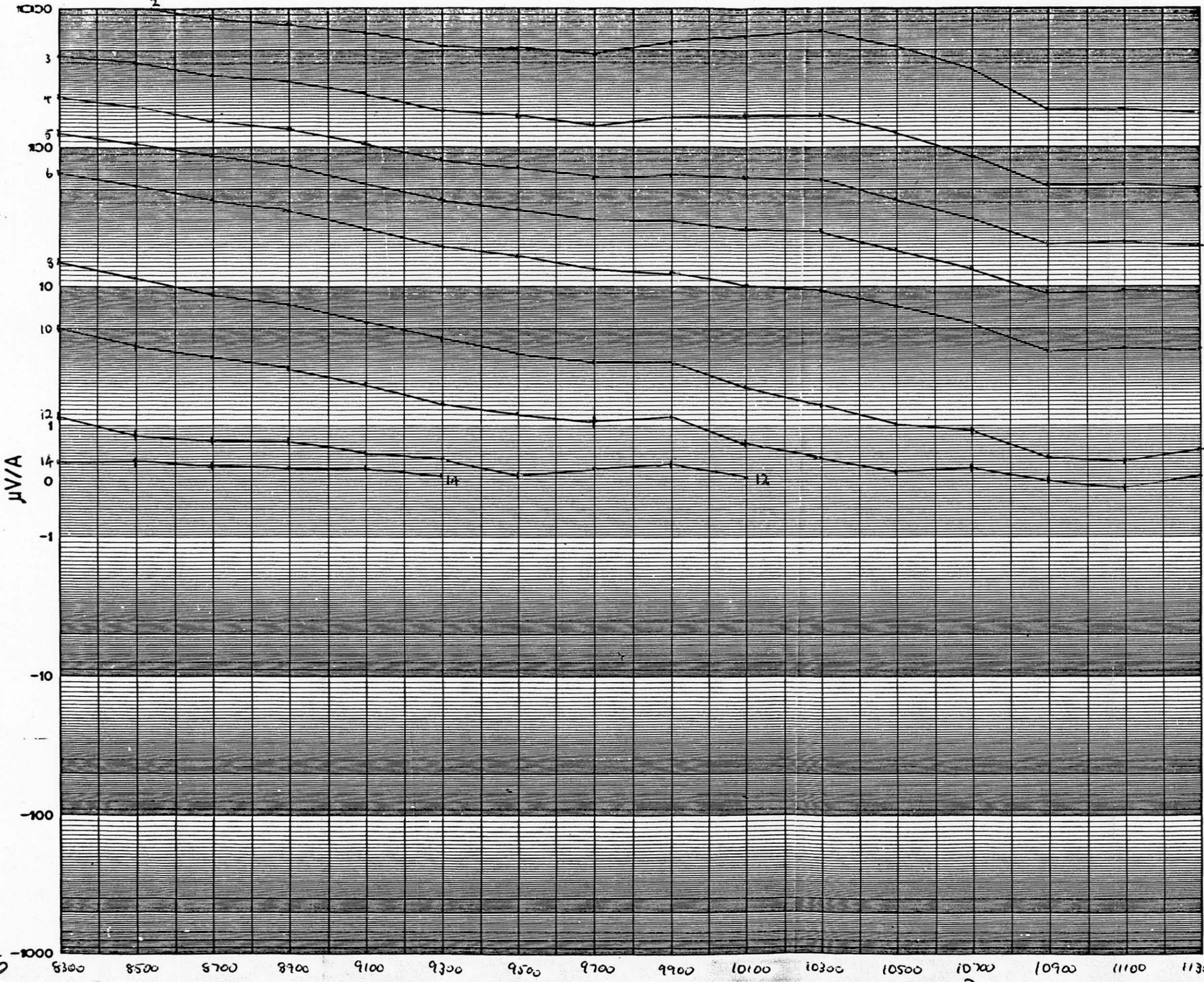
021

009023



SIROTEM SURVEY

CLIENT PANCONTINENTAL
 AREA MT. CATTLE
 LINE NO 1200N
 LOOP CONFIG RVL in loop
 LOOP DIMENSION 200m
 STATION INTERVAL 200m
 STACKS 256
 SPHERICS OFF
 INST. SERIAL NO 1236
 OPERATOR P. McSKIMMING
 DATE 25, 26-3-35



LOOP DIAGRAMS ETC.
 T.O. 140 μsec

270

009024



SIROTEM SURVEY

CLIENT PANCONTINENTAL

AREA MT. CATLEY

LINE NO BEECROFT RD.

LOOP CONFIG RVR in loop

LOOP DIMENSION 200m

STATION INTERVAL 200m

STACKS 256

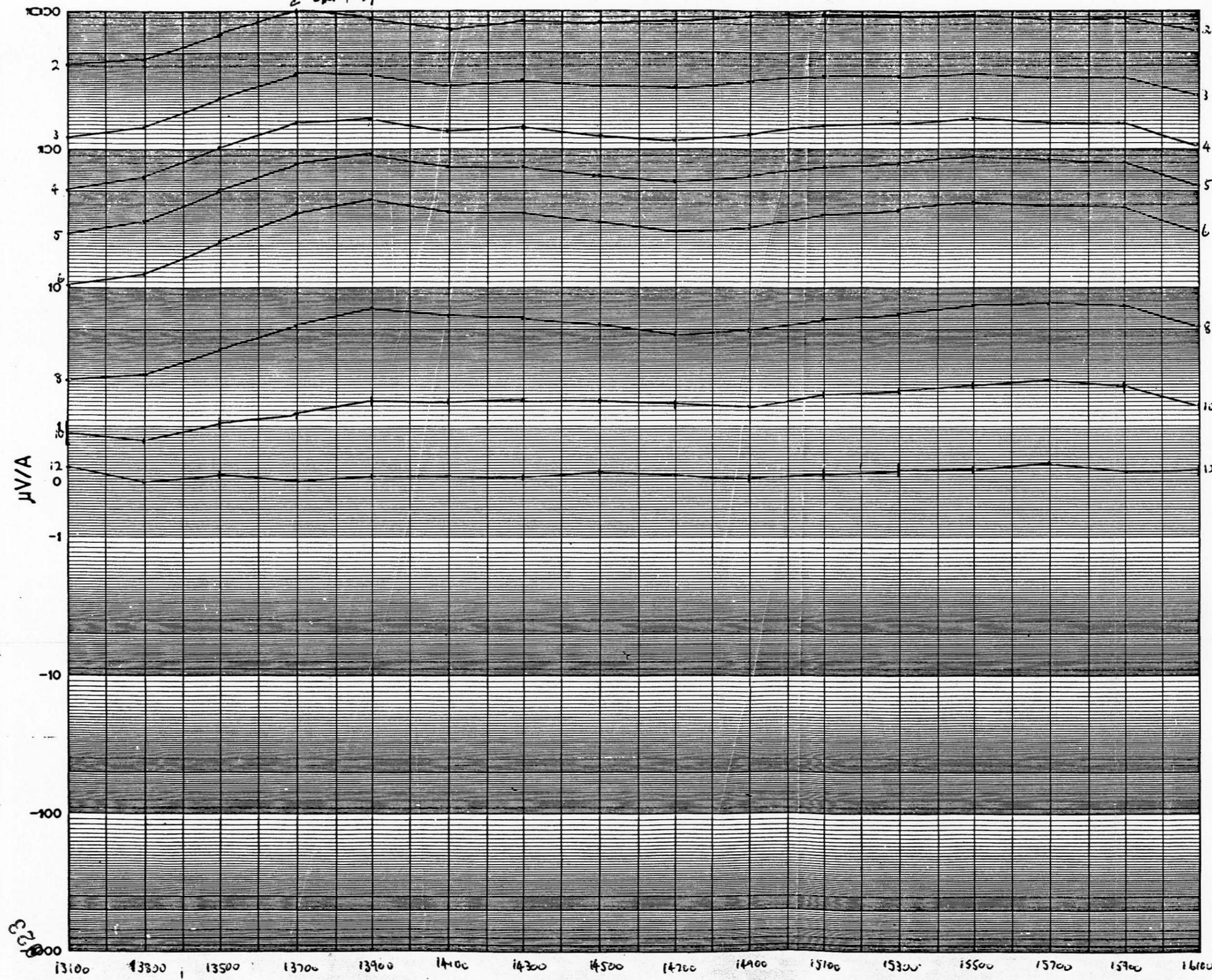
SFERICS OFF

INST. SERIAL NO 1236

OPERATOR P. McSKIMMING

DATE 1, 2-4-86

*55 psec
out of synch on ST reading only at this point*



LOOP DIAGRAMS ETC.

009024

009025



SIROTEM SURVEY

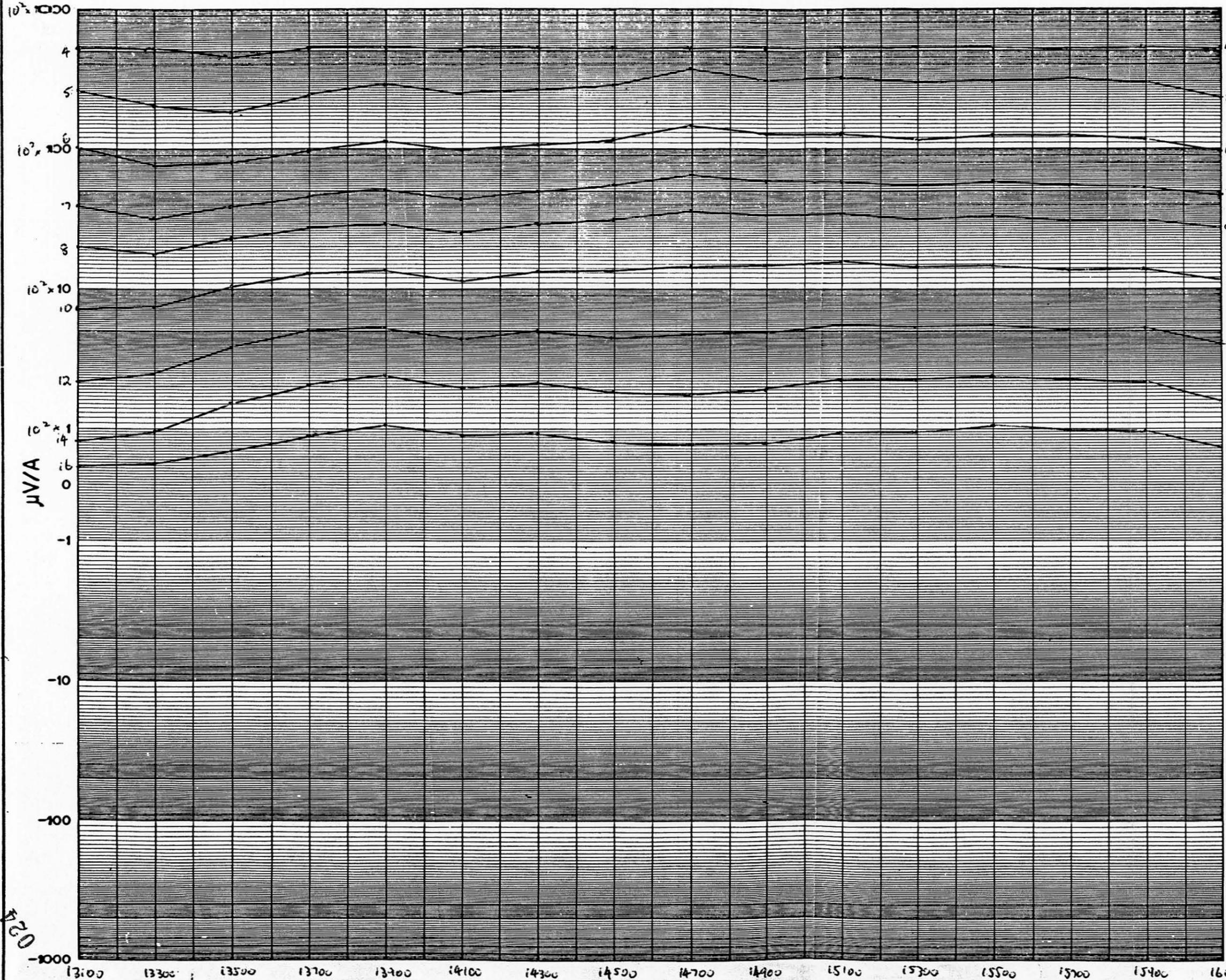
CLIENT PANCONTINENTAL
AREA MT. CATTLEY
LINE NO BEECROFT RD.

LOOP CONFIG RVR in loop
LOOP DIMENSION 200m

STATION INTERVAL 200m
STACKS 256
SPHERICS OFF
INST. SERIAL NO 1236

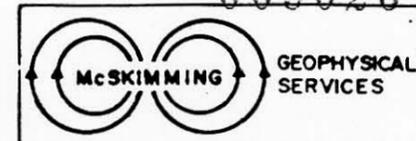
OPERATOR P. McSKIMMING
DATE 1, 2-4-86

LOOP DIAGRAMS ETC.



020

009026



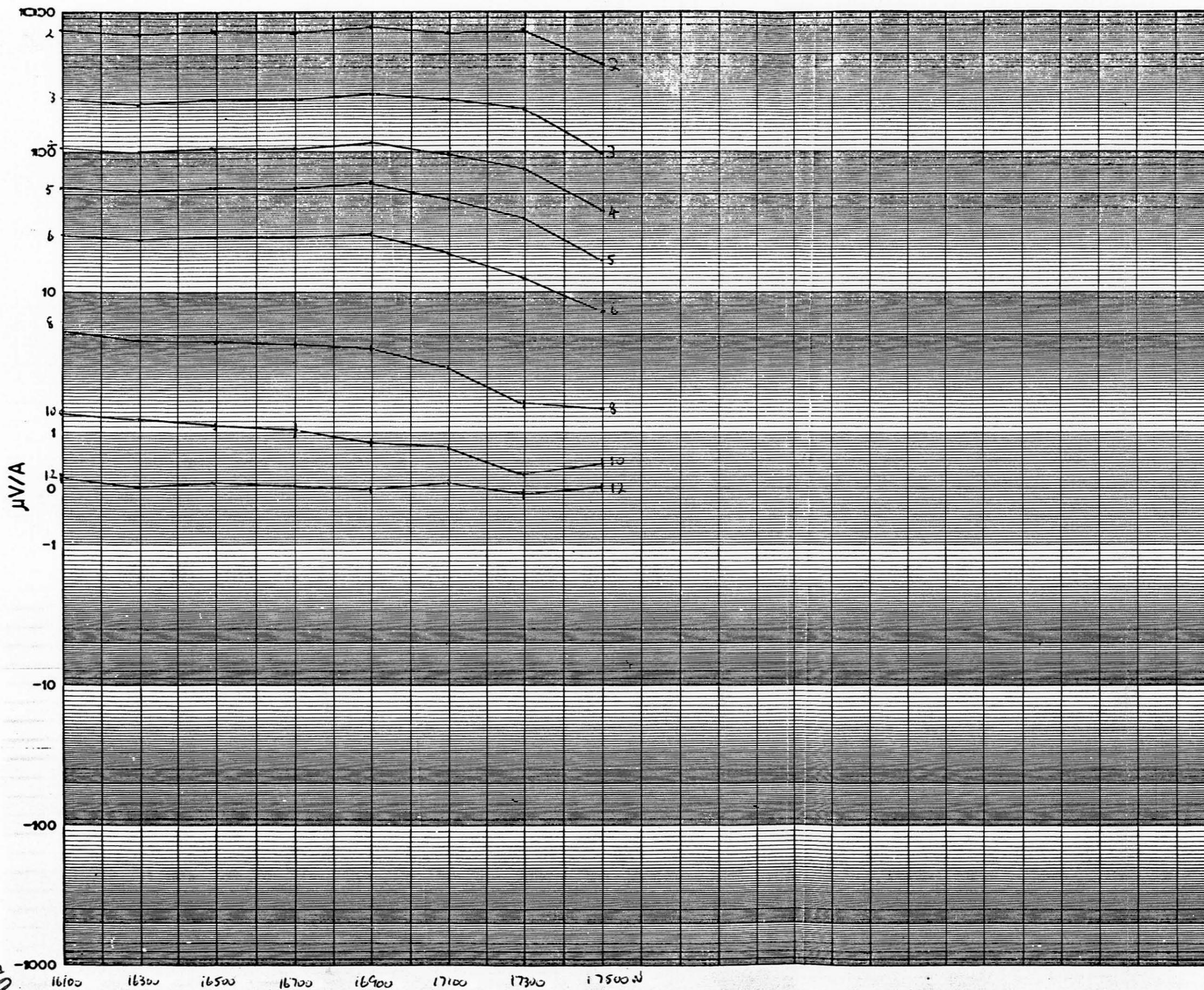
SIROTEM SURVEY

CLIENT PANCONTINENTAL
AREA MT. CATLEY
LINE NO REECROFT RD.

LOOP CONFIG RVR in loop
LOOP DIMENSION 200m

STATION INTERVAL 300m
STACKS 256
SPHERICS OFF
INST. SERIAL NO 1236

OPERATOR P. McSKIMMING
DATE 2-4-86



LOOP DIAGRAMS ETC.

520



SIROTEM SURVEY

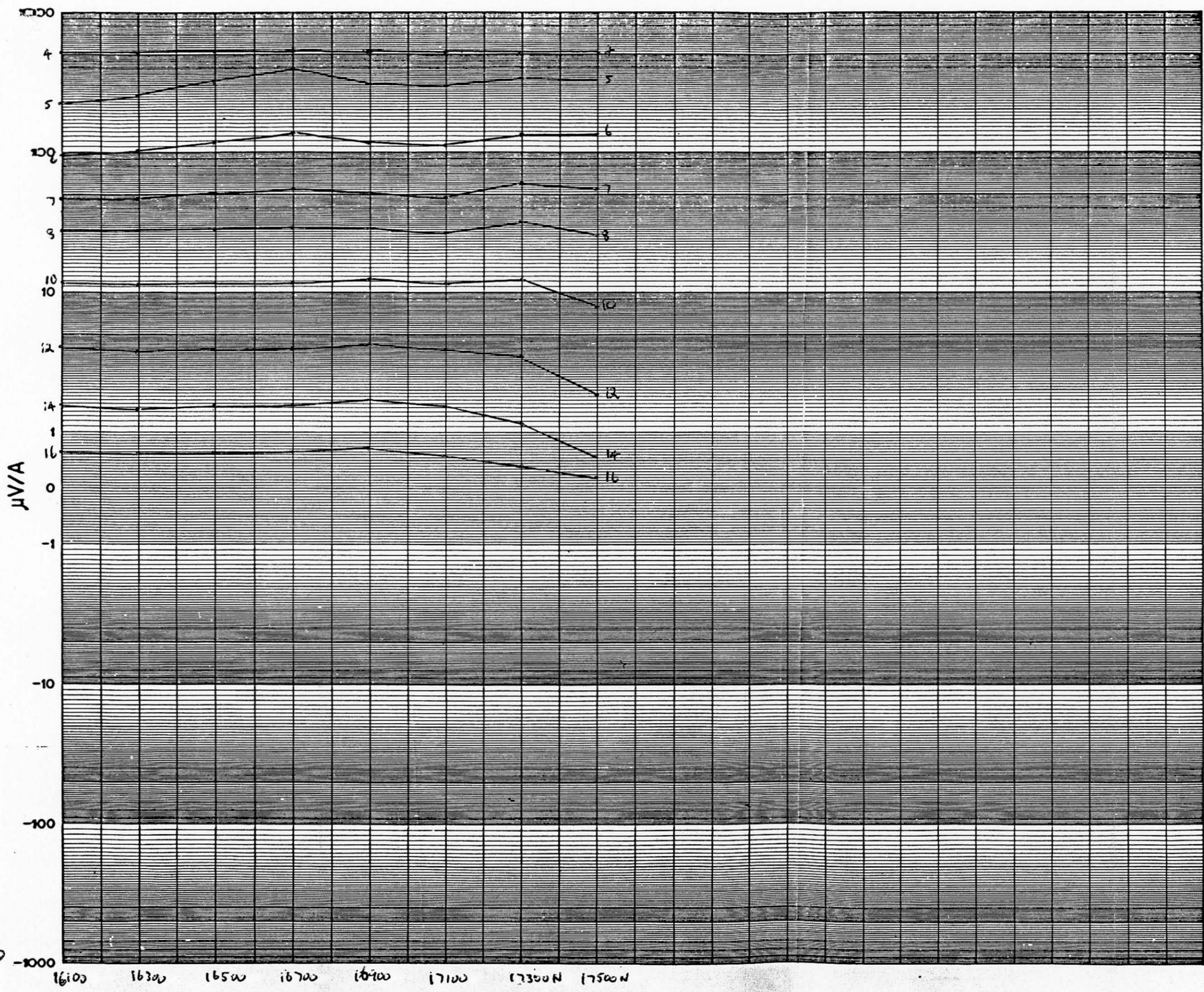
CLIENT PANCONTINENTAL
AREA MT. CAT. WY.
LINE NO DEECROFT RD

LOOP CONFIG RVR in Loop
LOOP DIMENSION 200m

STATION INTERVAL 200m
STACKS 256
SPHERICS OFF
INST. SERIAL NO 1236

OPERATOR P. McSKIMMING
DATE 2-4-86

LOOP DIAGRAMS ETC.



5520

009028



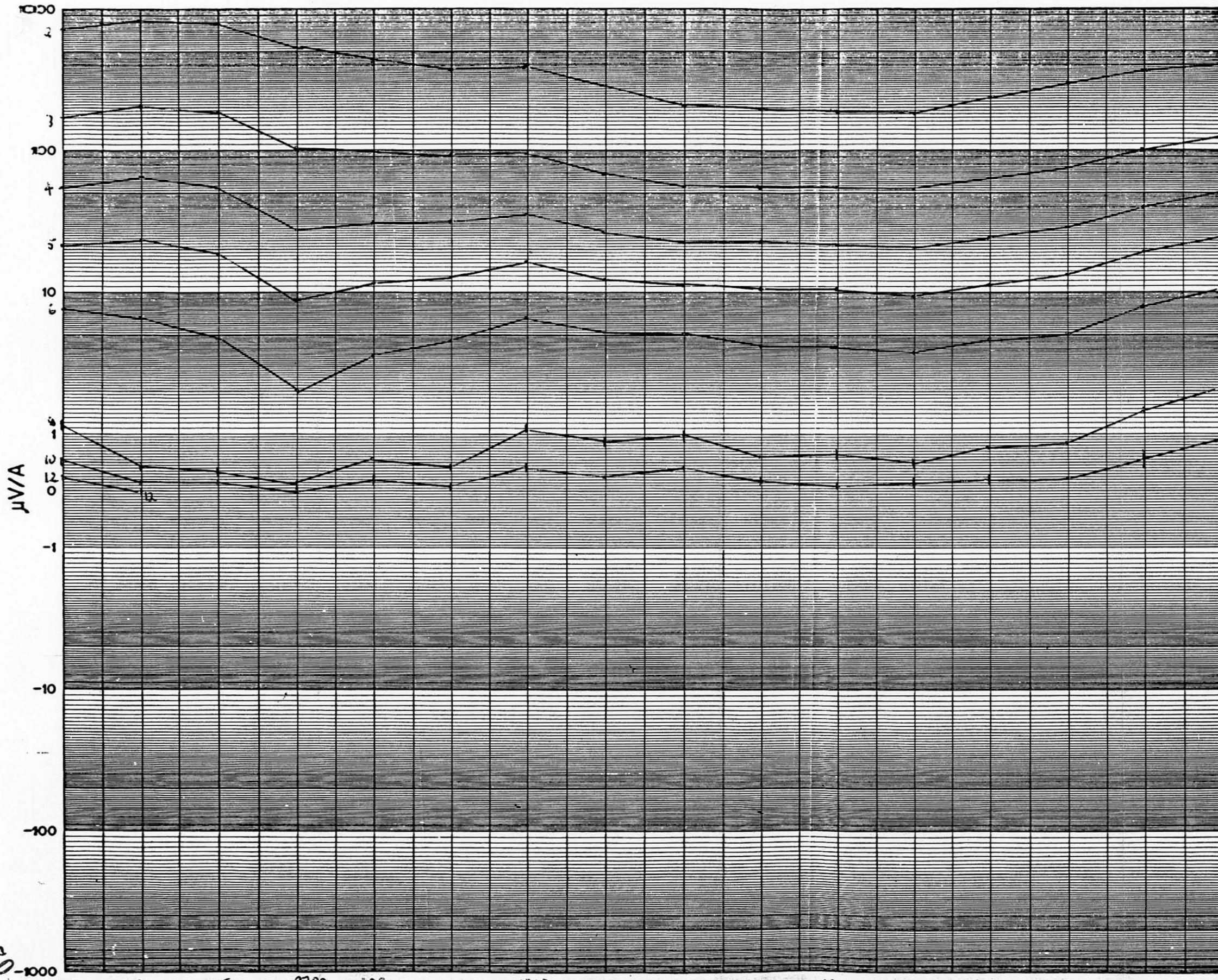
SIROTEM SURVEY

CLIENT PANCONTINENTAL
AREA Mt. CATLEY
LINE NO B. E. CROFT RD.

LOOP CONFIG AVR in loop
LOOP DIMENSION 200m

STATION INTERVAL 200m
STACKS 256
SFERICS OFF
INST. SERIAL NO 1236

OPERATOR P. McSKIMMING
DATE 31-3-86, 1-4-86



LOOP DIAGRAMS ETC.

470-1000

10100 10300 10500 10700 10900 11100 11300 11500 11700 11900 12100 12300 12500 12700 12900 13100N

RIVER

↑ 11000N

↑ possibly small loop due to road bend

↑ 12000N } CK

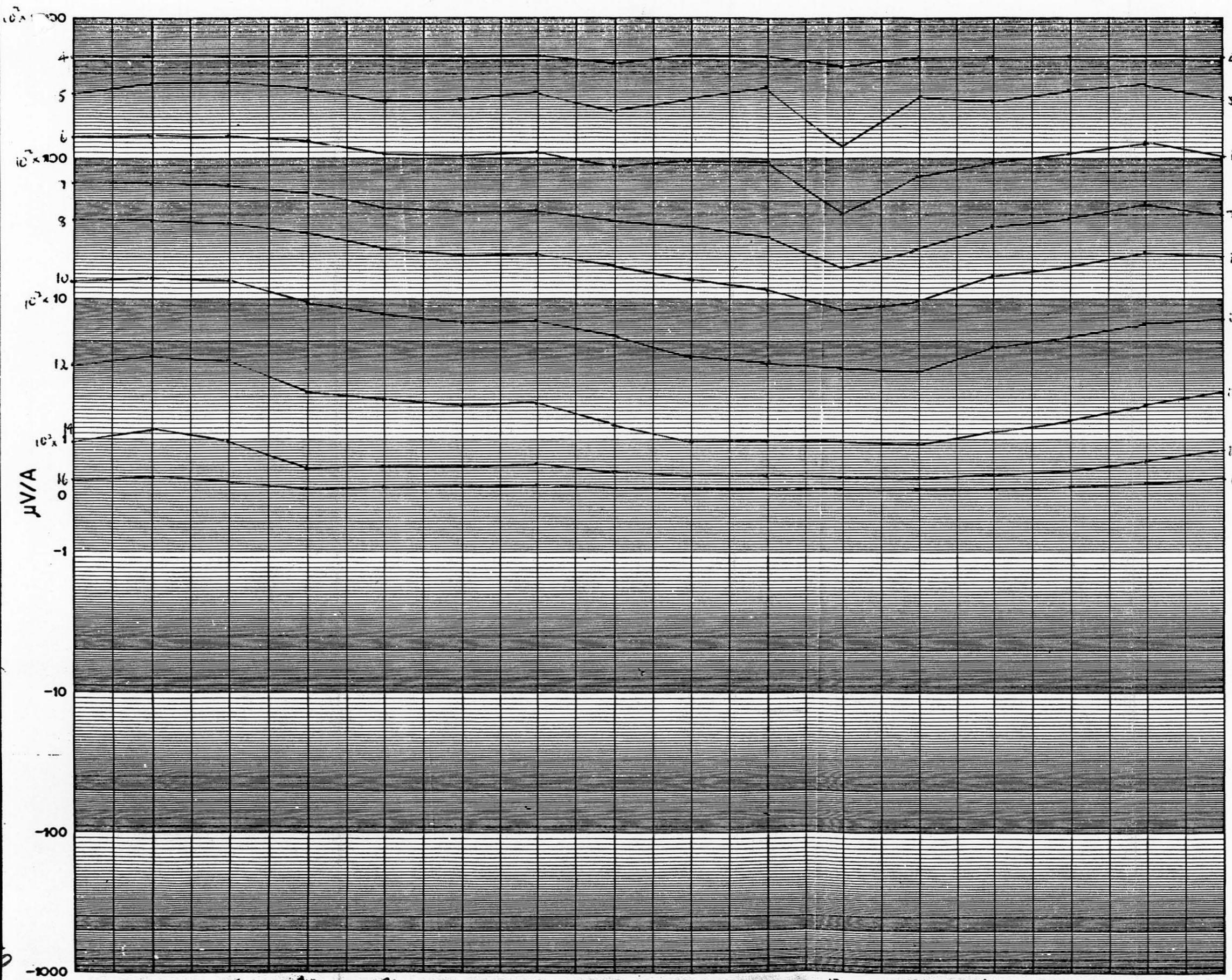
↑ FENCE

009029



SIROTEM SURVEY

CLIENT PANCONTINENTAL
 AREA MT. CATTLEY
 LINE NO BEECROFT RA
 LOOP CONFIG RVR in loop
 LOOP DIMENSION 200m
 STATION INTERVAL 200m
 STACKS 256
 SPHERICS OFF
 INST. SERIAL NO 1234
 OPERATOR P. McSKIMMING
 DATE 31-3-86, 1-4-86



LOOP DIAGRAMS ETC.

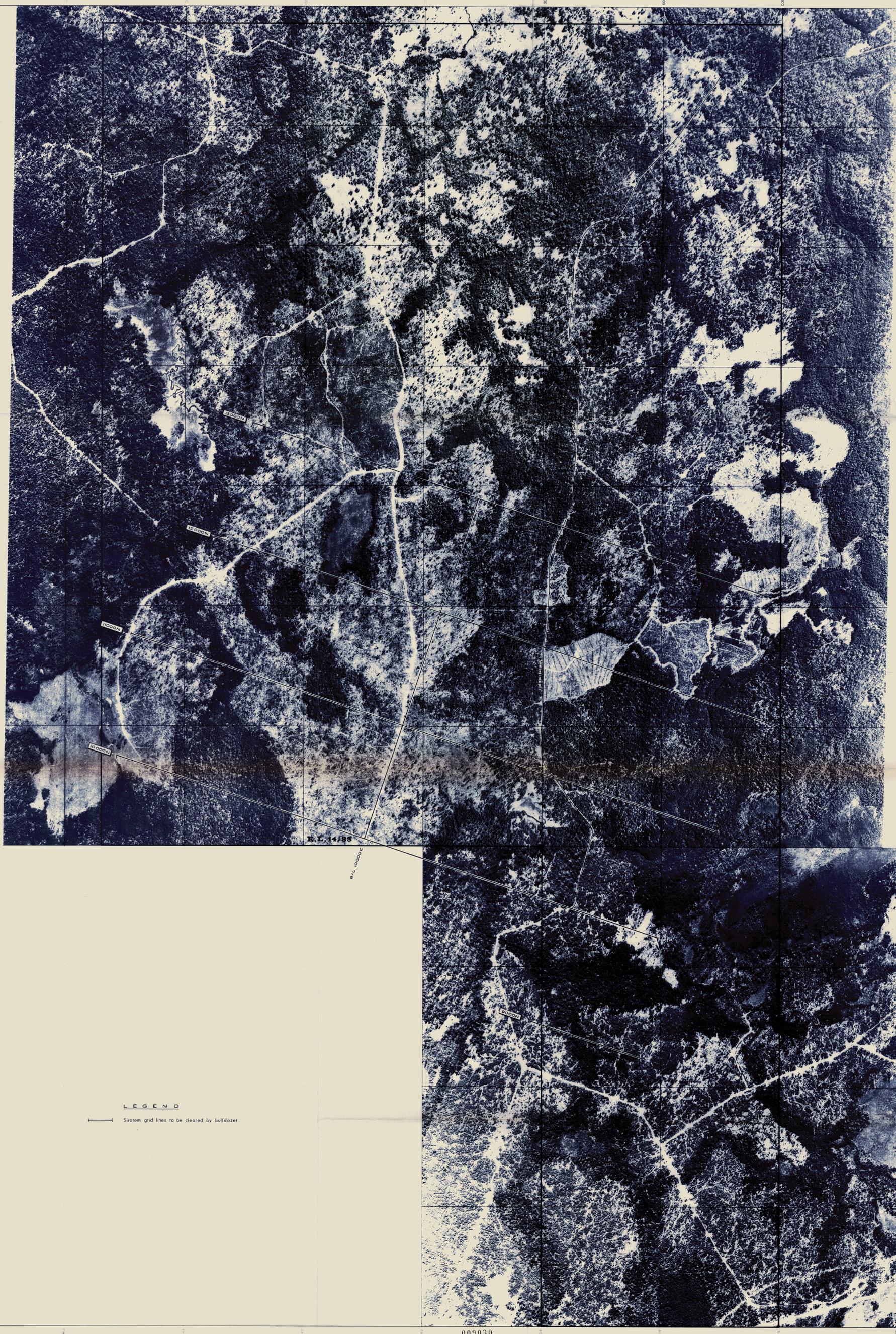
028

10100 10300 10500 10700 10900 11100 11300 11500 11700 11900 12100 12300 12500 12700 12900 13100

RIVER

↑ possibly small loop due to road bend

↑ FENCE



LEGEND
 ─── Sirotem grid lines to be cleared by bulldozer.

009030
 5 cm

PANCONTINENTAL MINING LIMITED
 MT. CATCLEY PROJECT
 ORTHOPHOTOMAP
GRID PLAN
 SCALE 1:10,000

PRODUCED BY GLO-SPECTRUM (AUSTRALIA) PTY LIMITED
 IN NOVEMBER 1985, FROM MARCH 1983 1:40,000 SCALE PHOTOGRAPHY
 AND AIRBORNE TRIANGULATION DATA PROVIDED BY DEPT. OF LANDS,
 TASMANIA

