

ANNUAL REPORT

EXPLORATION LICENCES 7260, 7261, 7262, 7263, 7264, 7341 and 7824

For the Period
24th May, 1993 to 23rd May, 1994

Volume 2

Licensee:	Ashton Mining Limited
Operator:	Ashton Mining Limited BHP Minerals Pty Ltd
Sheet Reference:	1:250,000 Mt Young (SE 53-15) 1:250,000 Roper River (SE 53-11)
Submitted to:	Department of Mines & Energy, DARWIN

Authors:

T.H. Reddcliffe
ASHTON MINING LIMITED
24 Outram Street
WEST PERTH WA 6005

H. Berents & C. Handley
BHP MINERALS PTY LTD
3 Plain Street
EAST PERTH WA 6004

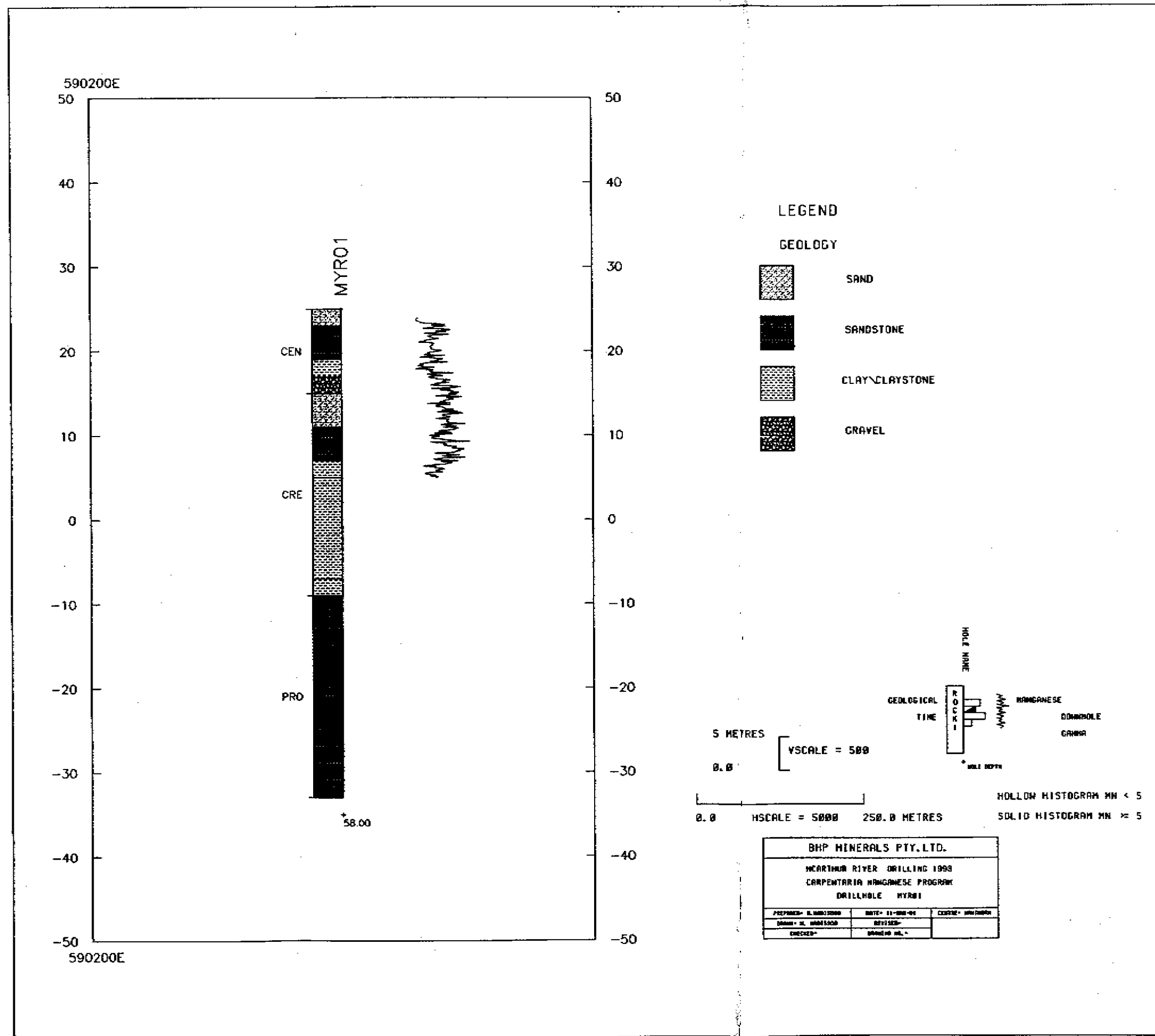
June, 1994
Report Number: 50902

CR 94 / 608B
VOL 2

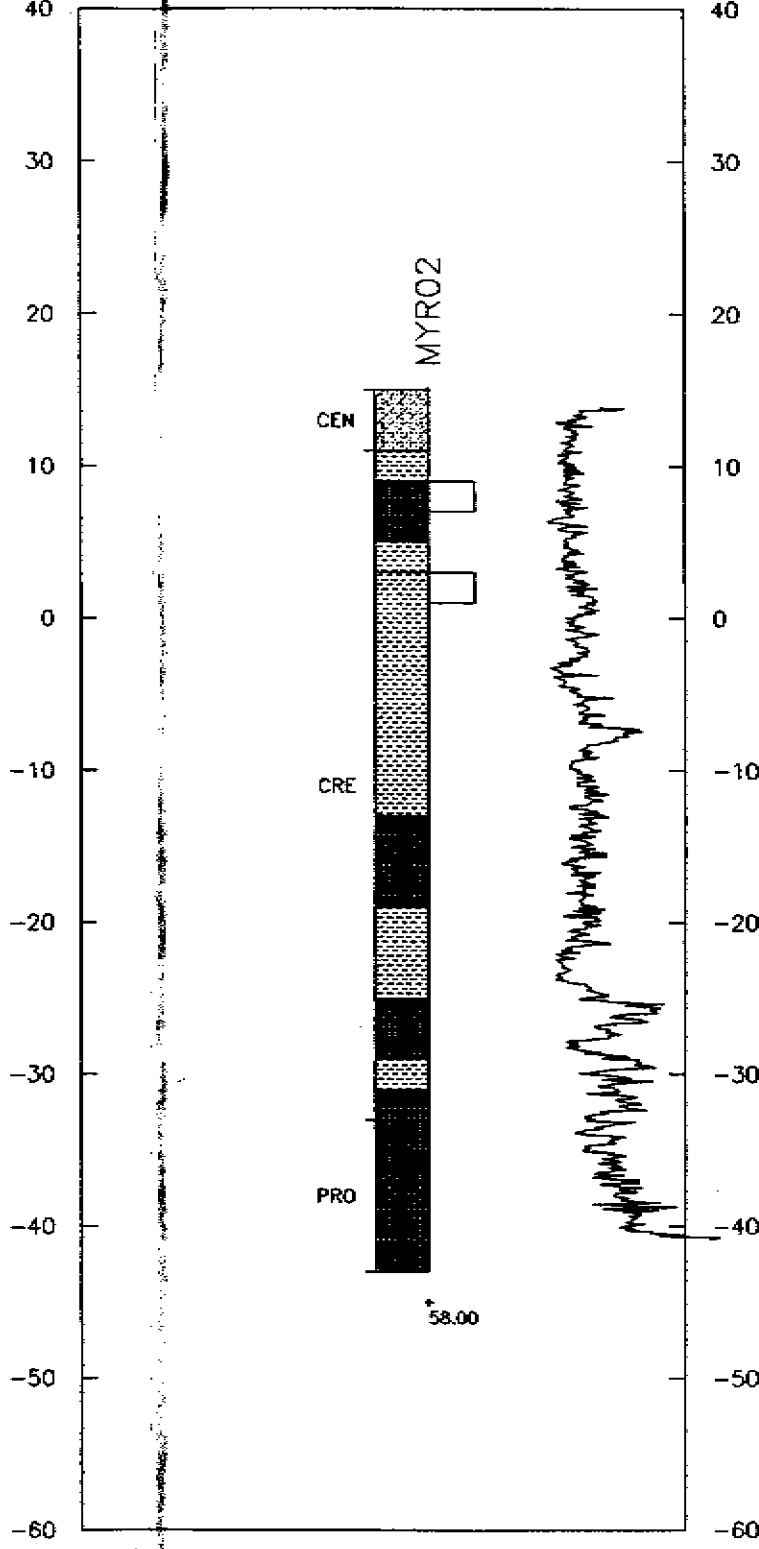
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APPENDIX 4

RC Drilling - Graphic Logs

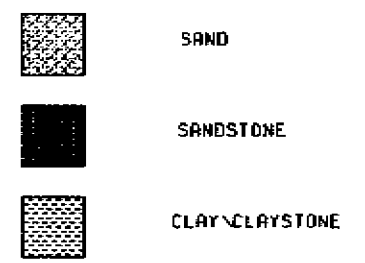


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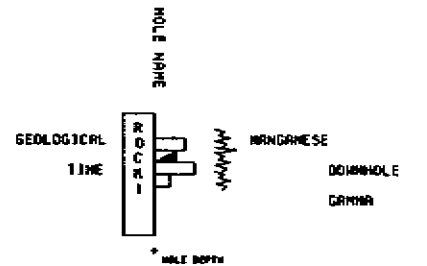


5 METRES

0.0

VSCALE = 500

0.0 HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN > 5

BHP MINERALS PTY. LTD.

MCARTHUR RIVER DRILLING 1993

CARPENTARIA MANGANESE PROGRAM

DRILLHOLE MYR02

PREPARED BY: J. HADJIOANNIS	DATE: 21-MAR-93	CHECKED BY: J. HADJIOANNIS
DRAWN BY: J. HADJIOANNIS	REVISION: 1	
CHECKED BY:	REVISION: 1	

LEGEND

GEOLOGY



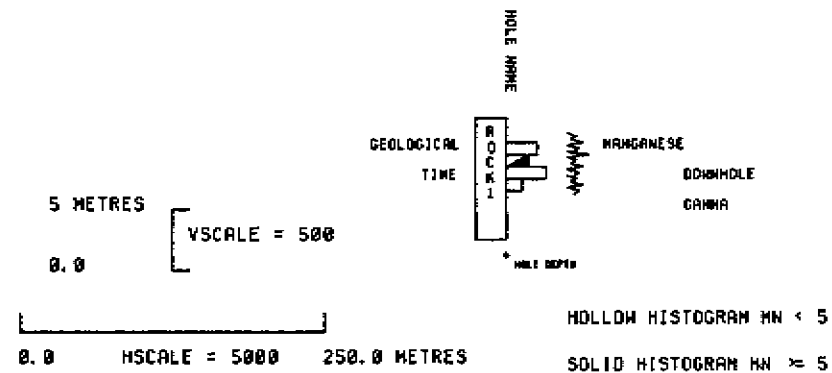
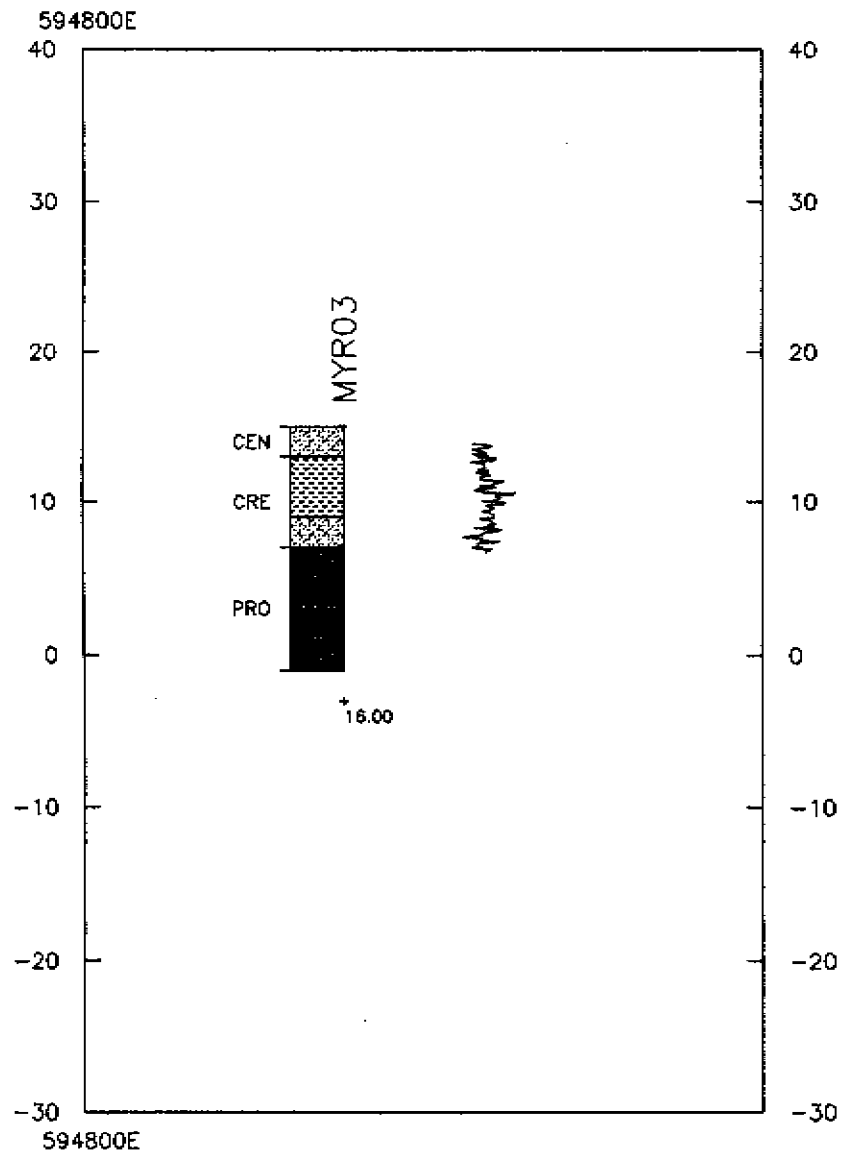
SAND



SANDSTONE



CLAY



BHP MINERALS PTY. LTD.

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CARPENTARIA MANGANESE PROGRAM
DRILLHOLE MYR03

PREPARED BY: H. M. 15500

DATE: 11-08-91

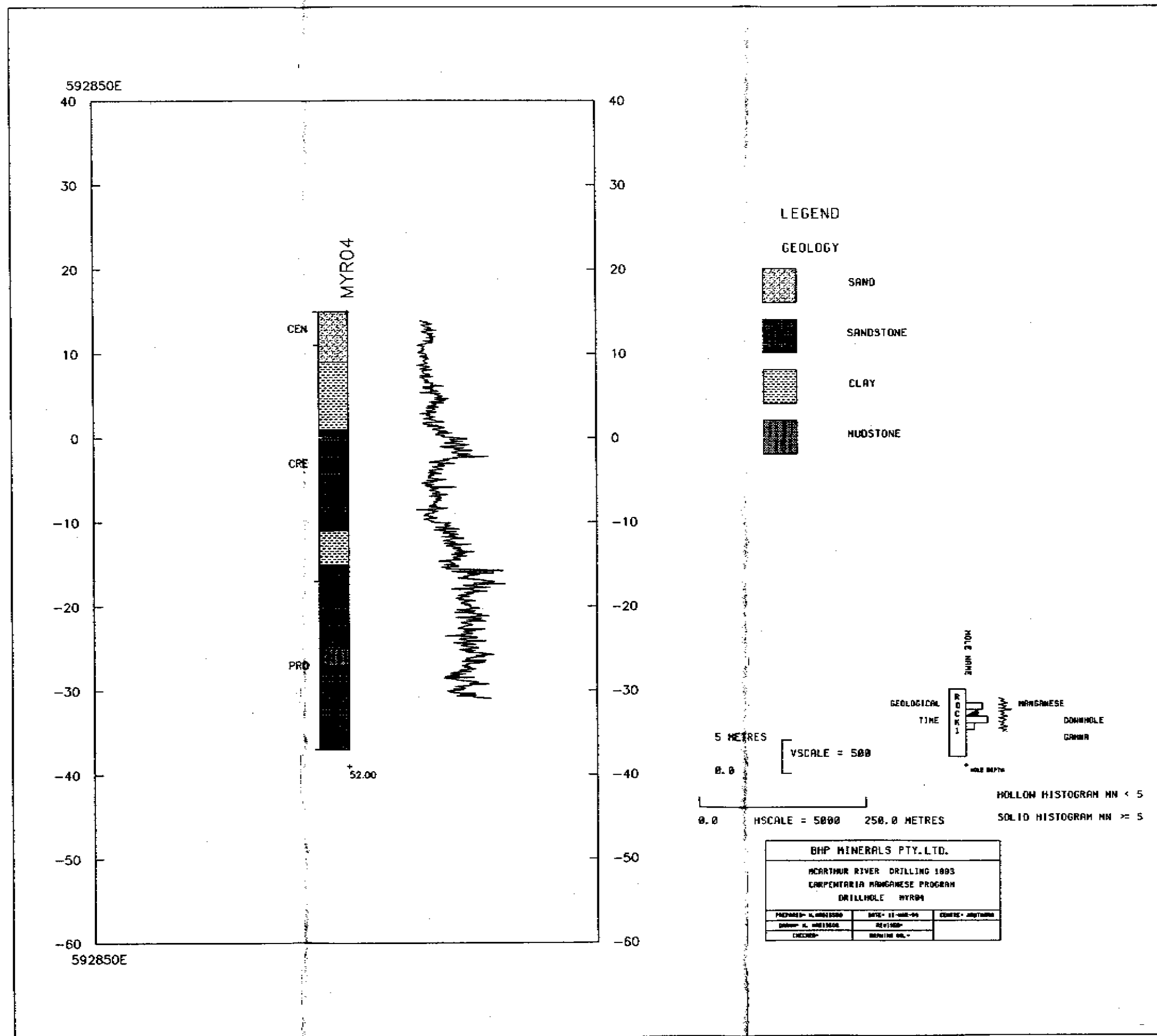
CENTRE: MCARTHUR

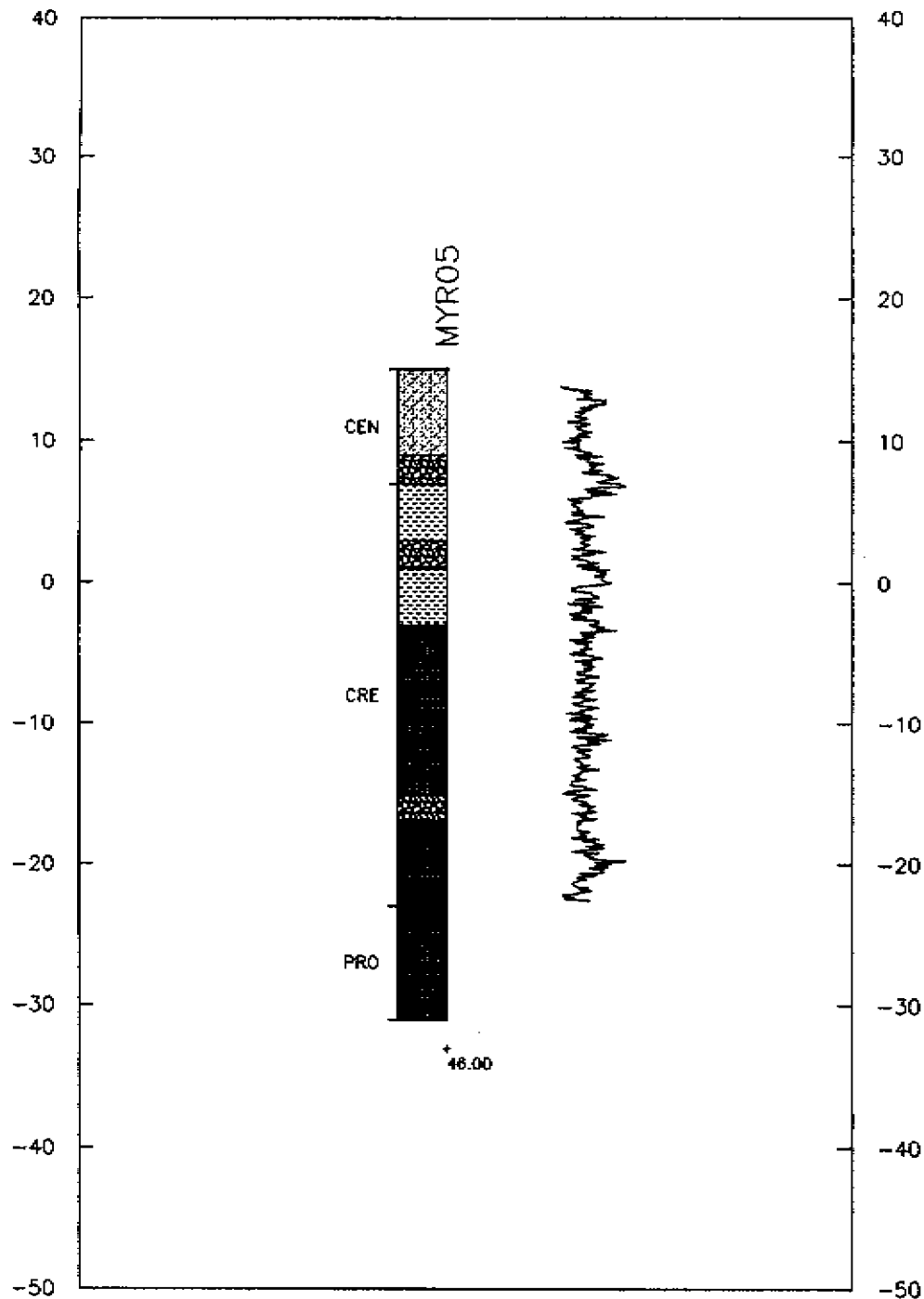
DRAWN BY: H. M. 15500

REVISION:

CHECKED:

DRAWING NO.:





LEGEND

GEOLOGY



SAND



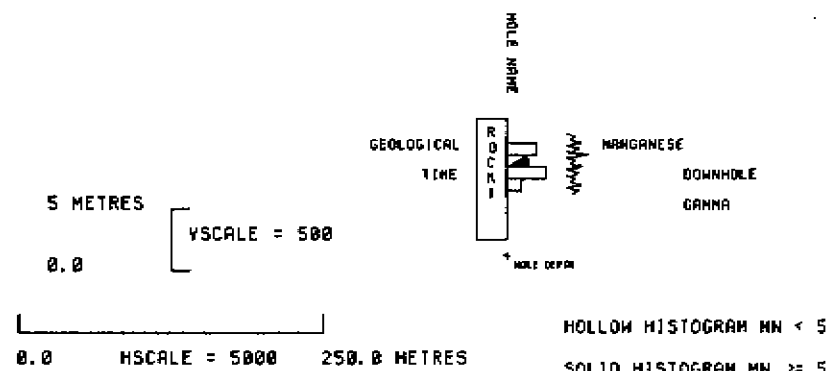
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CLAY



GRAVEL



BHP MINERALS PTY. LTD.

MCARTHUR RIVER DRILLING 1989
 CARPENTARIA MANGANESE PROGRAM
 DRILLHOLE MYR05

PREPARED BY: J. M. HARRISON	DATE: 11-09-89	CHECKED BY: M. HARRISON
DESIGNED BY: M. HARRISON	REVIEWED BY:	
ENGINEERED BY:	DRAWING NO.:	

8300400N

40

30

20

10

0

-10

-20

-30

-40

-50

8300400N

MYR06

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CRE

PRO

+ 40.00

40

30

20

10

0

-10

-20

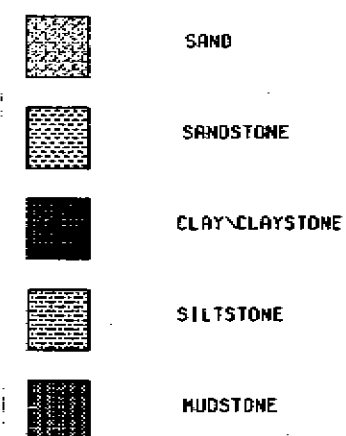
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LEGEND

GEOLOGY



5 METRES

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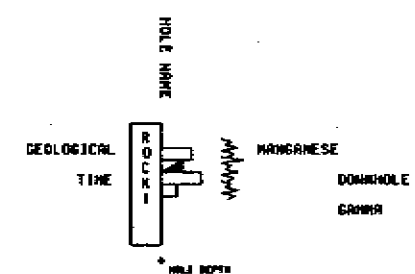
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HSCALE = 5000

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HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN >= 5



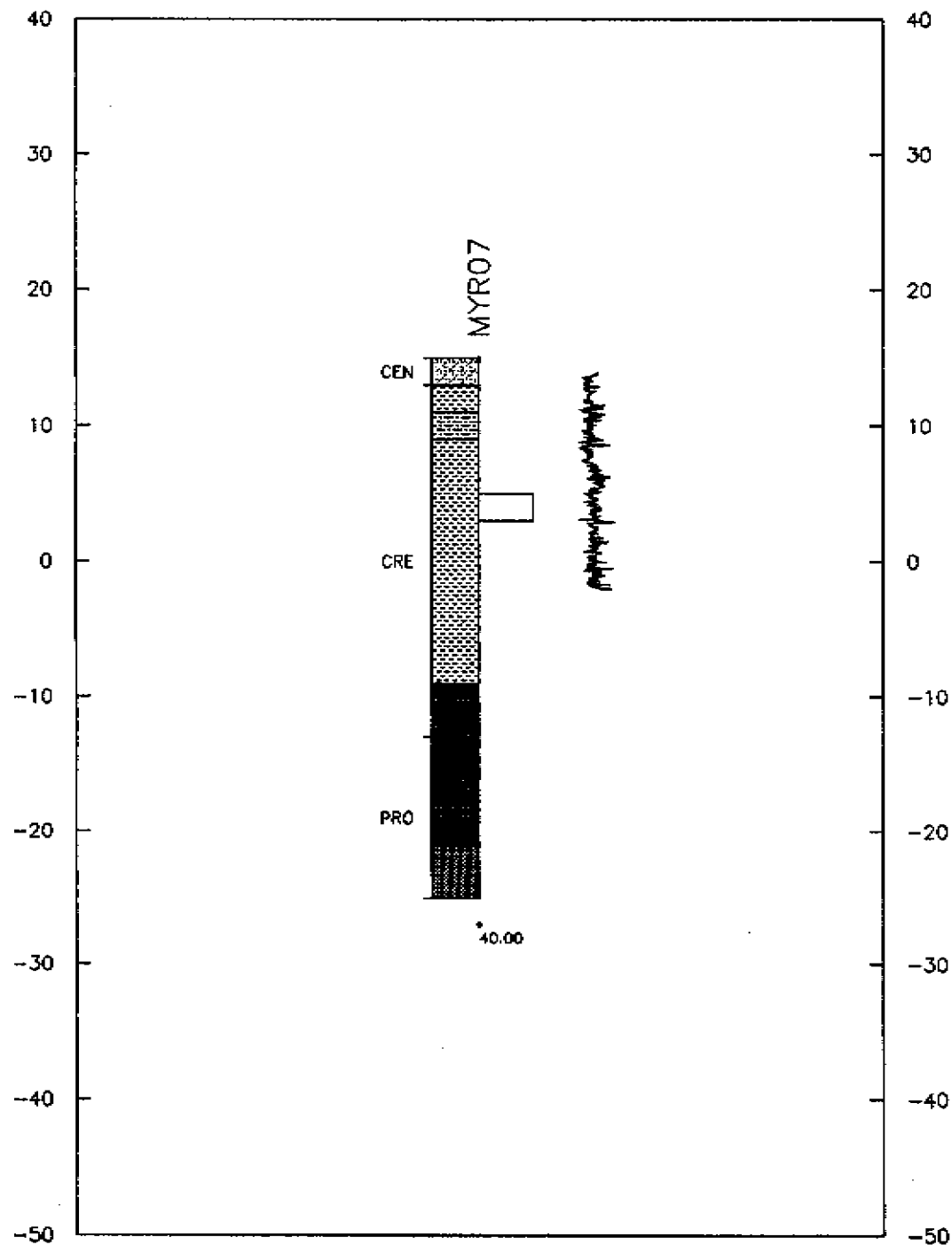
BHP MINERALS PTY. LTD.

MCARTHUR RIVER DRILLING 1993

CARPENTARIA MANGANESE PROGRAM

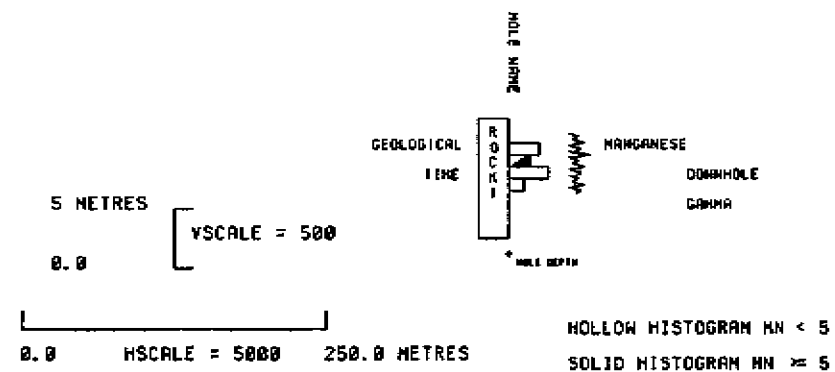
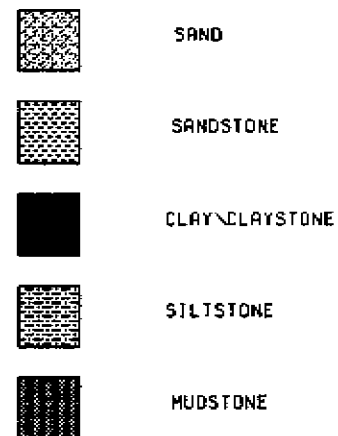
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PREPARED BY: ALAN MASON	DATE: 11-MAR-94	CHECKED BY: ALAN MASON
DRAWN BY: ALAN MASON	REVISED BY:	
CHECKED BY:	REVIEWED BY:	



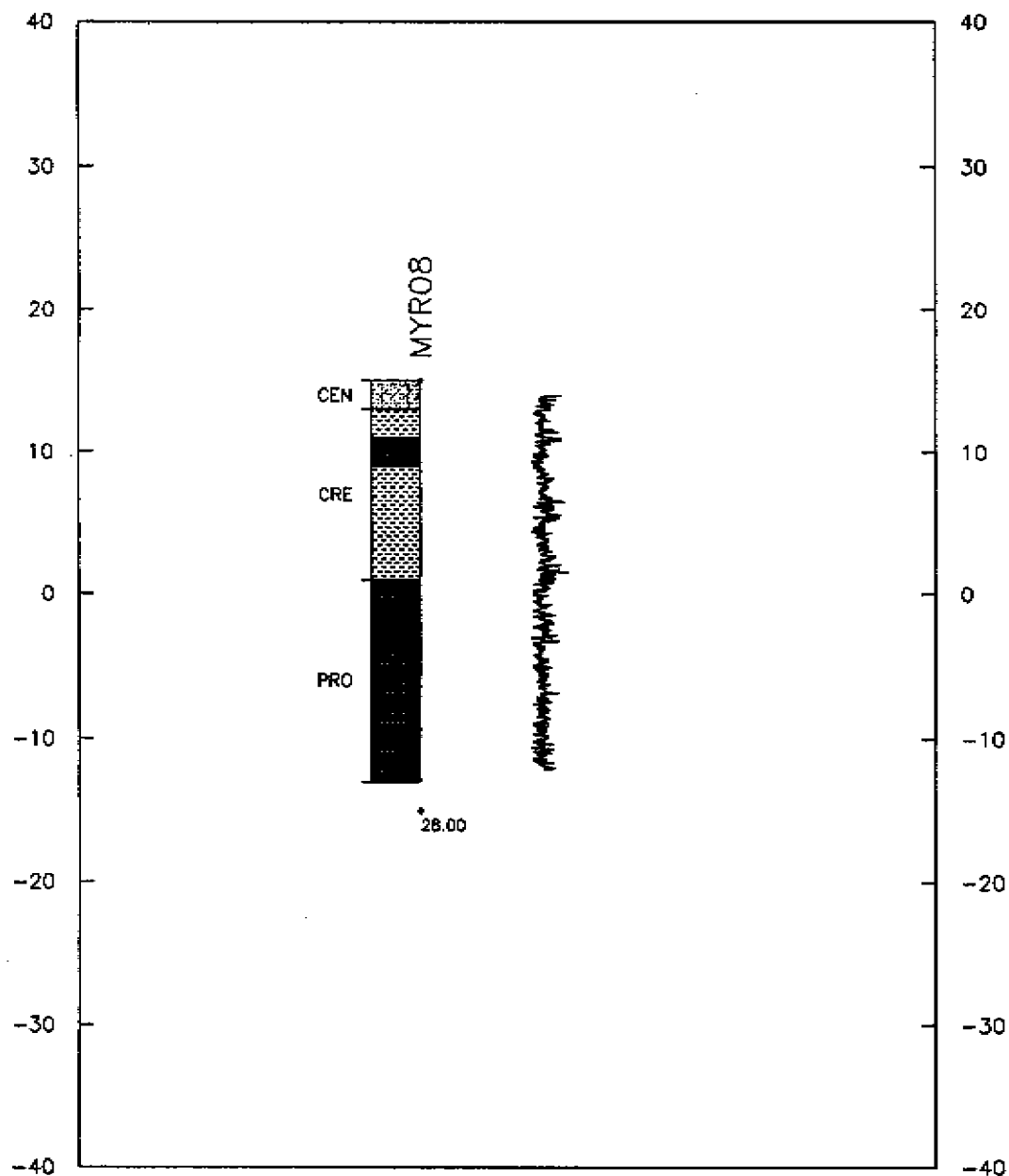
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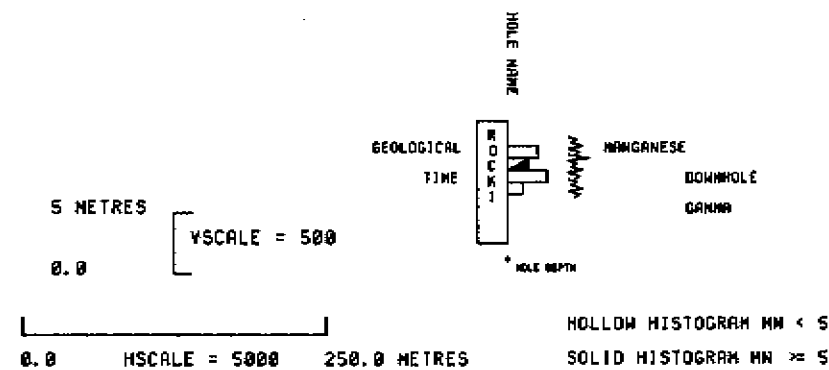


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PREPARED BY: M. HADFIELD	DATE: 11-NOV-95	CHECKED BY: M. HADFIELD
DRAWN BY: M. HADFIELD	REVIEWED BY:	
CHECKED BY:	REVISION NO.:	

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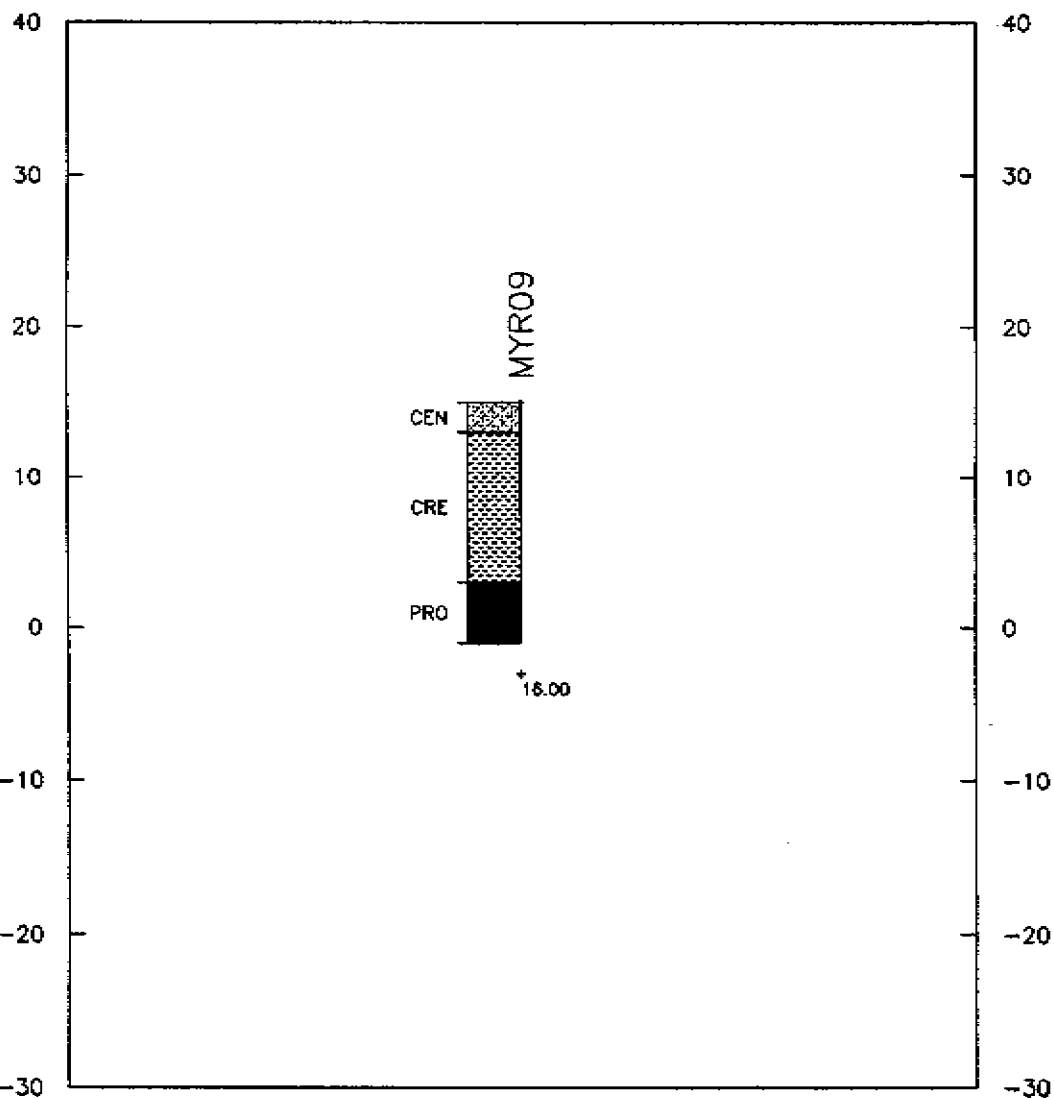


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CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE MYR08		
PREPARED BY: M. WATKINS	DATE: 11-08-93	CHECKED BY: M. WATKINS
DRAWN BY: M. WATKINS	REVISED BY:	
CHECKED BY:	REVISION NO.:	

8302100N



8302100N

LEGEND

GEOLOGY



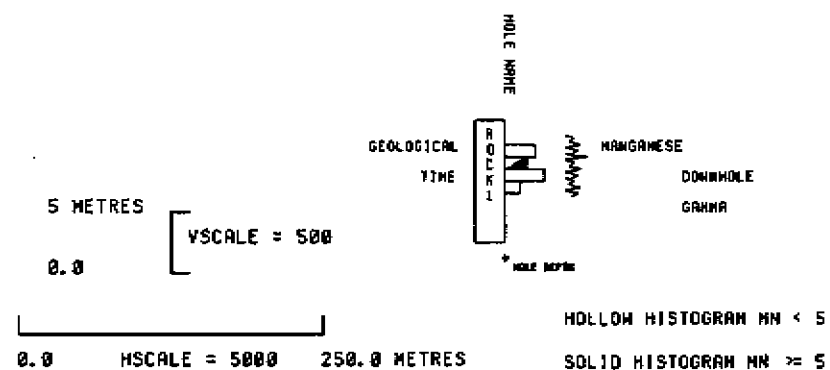
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SANDSTONE



CLAY

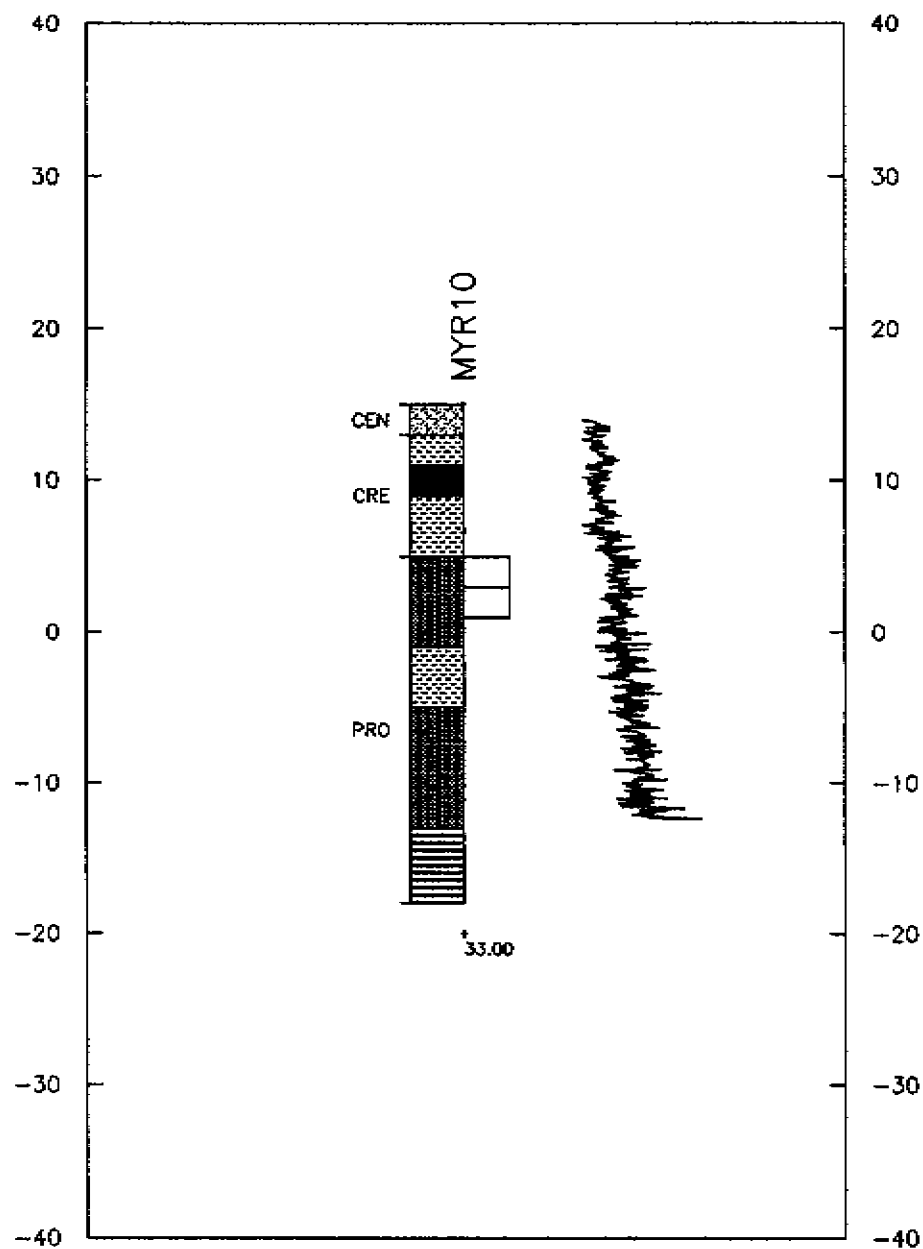


BHP MINERALS PTY. LTD.

KCARTHUR RIVER DRILLING 1989
 CARPENTARIA MANGANESE PROGRAM
 DRILLHOLE MYR09

PREPARED BY: H. W. 13500	DATE: 11-08-91	CHECKED BY: H. W. 13500
DRAWN BY: H. W. 13500	REVIEWED BY:	
ENGINEER:	GEOPHYSICIST:	

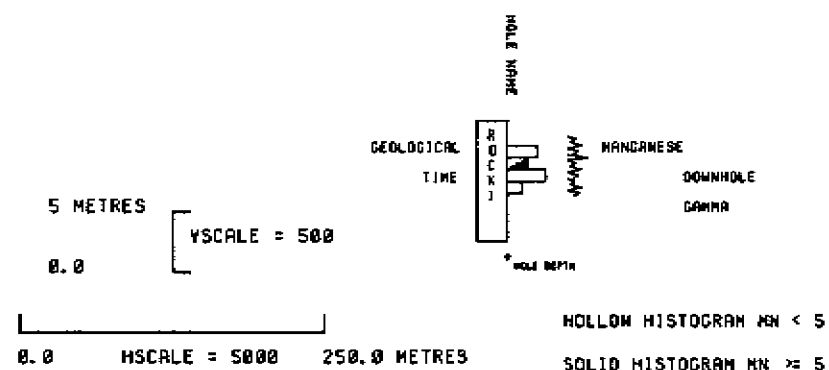
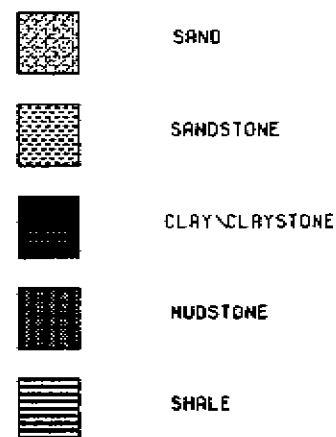
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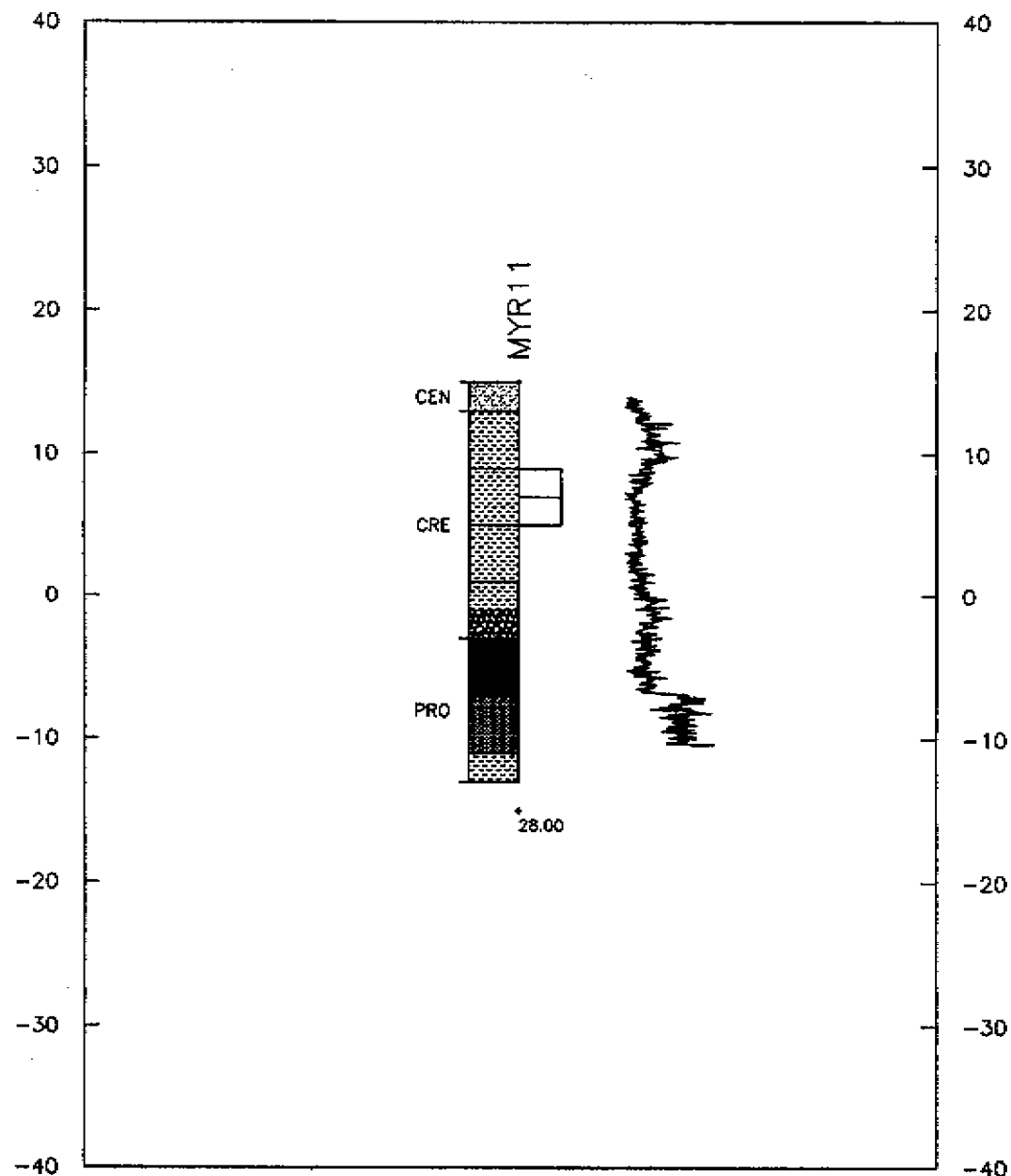


BHP MINERALS PTY. LTD.

MCARTHUR RIVER DRILLING 1983
CARPENTARIA MANGANESE PROGRAM
DRILLHOLE MYR10

PREPARED BY: J. W. B. B. B.	DATE: 11-08-83	CENTRE: MANTON
DRAWN BY: J. W. B. B. B.	REVISED:	
CHEKED:	REVIEWED:	

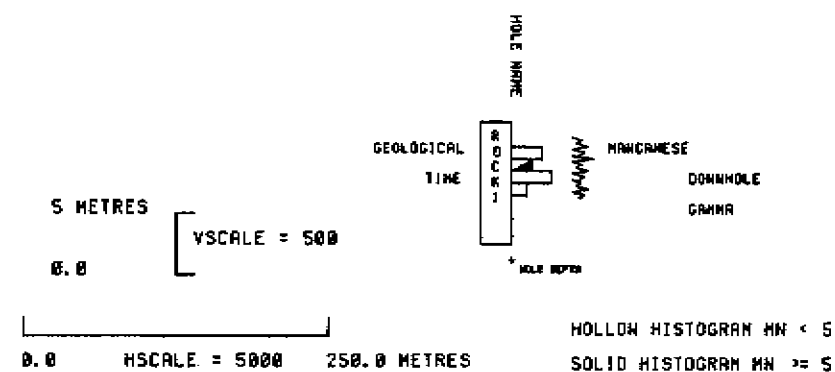
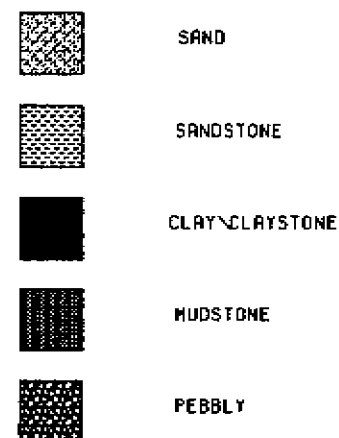
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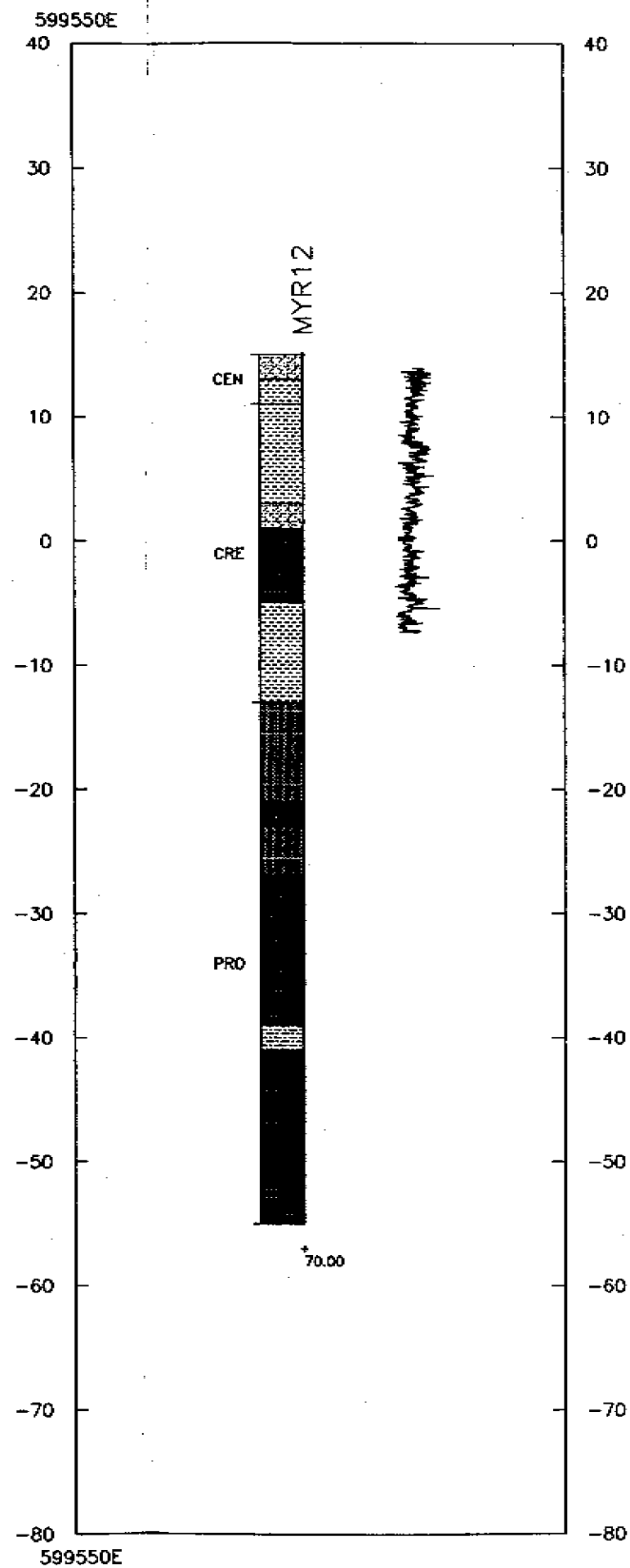
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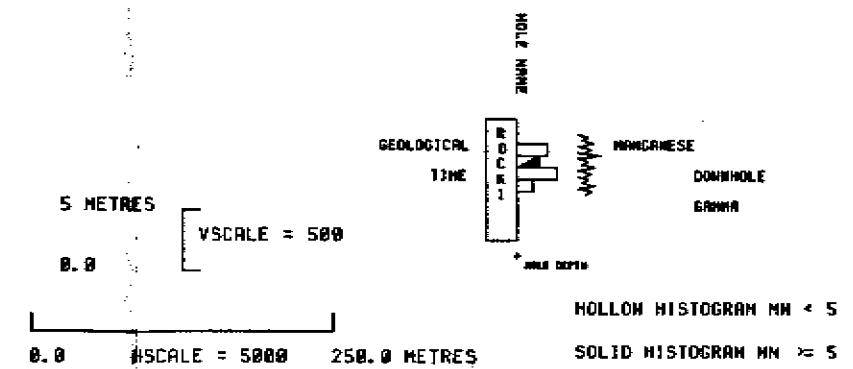
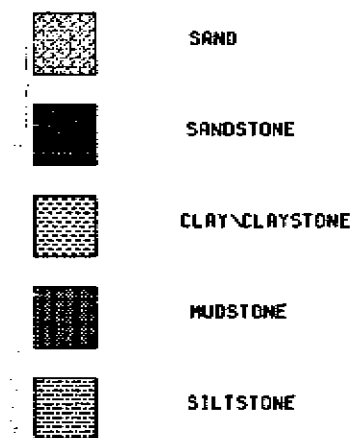


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CARPENTARIA MANGANESE PROGRAM		
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PREPARED BY: N. HODGSON	DATE: 11-NOV-95	CHECKED BY: M. HODGSON
DRAWN BY: N. HODGSON	REVIEWED BY:	
CHECKED BY:	DATE: 11-NOV-95	

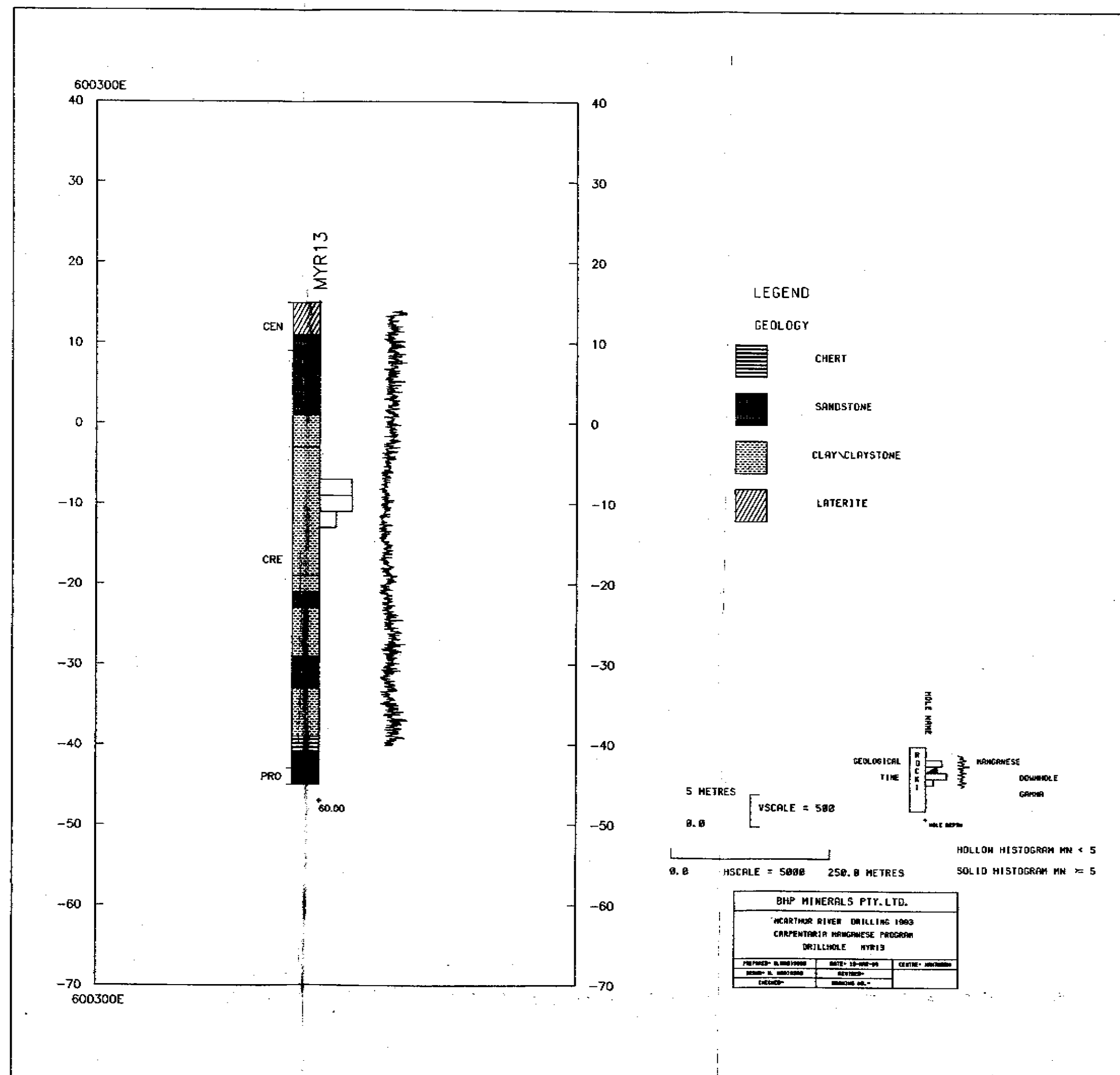


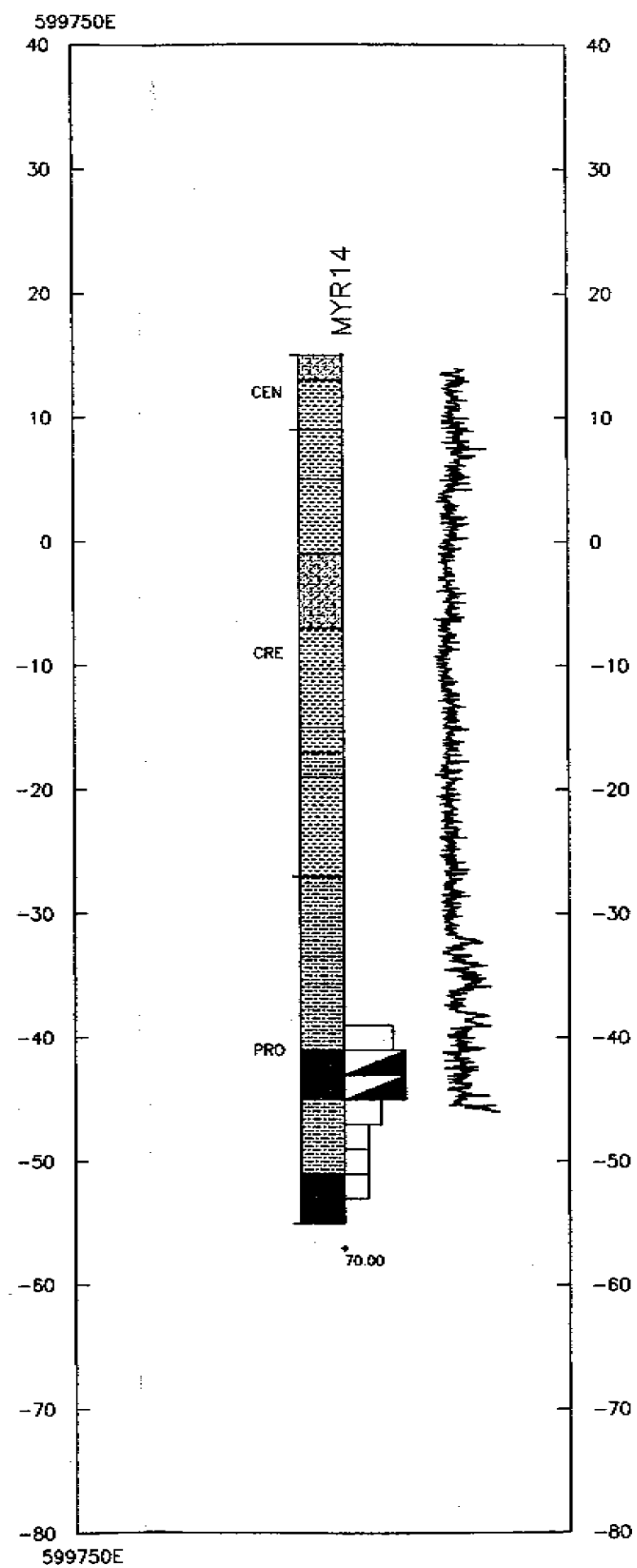
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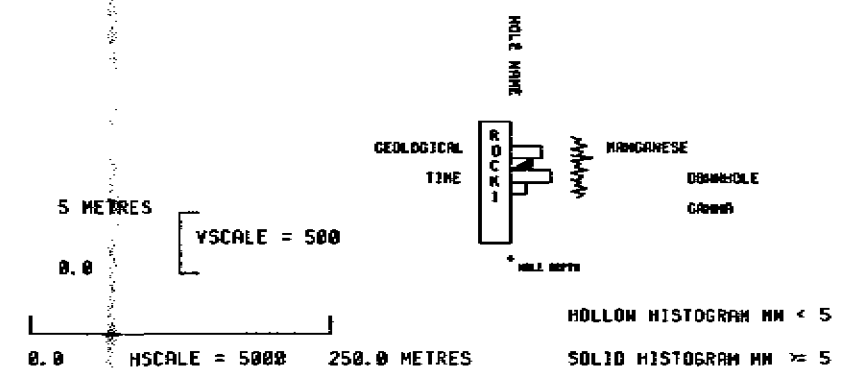
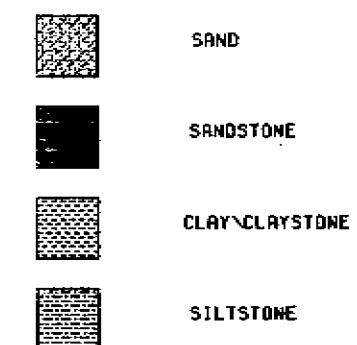
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MCARTHUR RIVER DRILLING 1999		
CARPENTARIA MANGANESE PROGRAM		
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PREPARED BY: H. H. H. H.	DATE: 15-04-04	CHECKED BY: H. H. H. H.
DESIGNED BY: H. H. H. H.	REVISED BY: H. H. H. H.	
CHECKED BY: H. H. H. H.	APPROVED BY: H. H. H. H.	





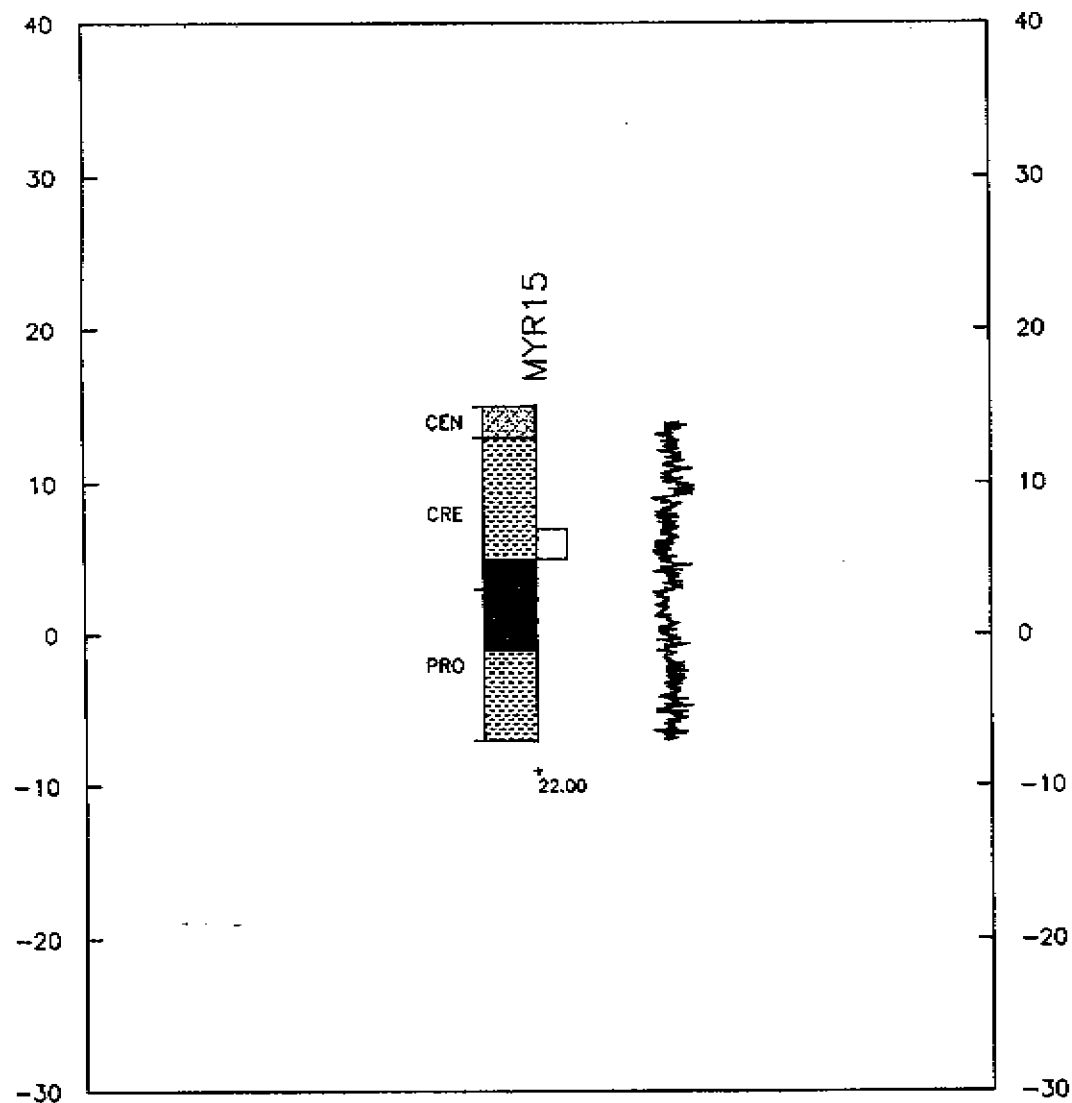
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GEOLOGY



BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE MYR14		
PREPARED BY: M. J. MORGAN	DATE: 15-08-93	CHECKED BY: M. J. MORGAN
DESIGNED BY: M. J. MORGAN	REVIEWED BY: M. J. MORGAN	
CHECKED BY: M. J. MORGAN		

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8286200N

LEGEND

GEOLOGY



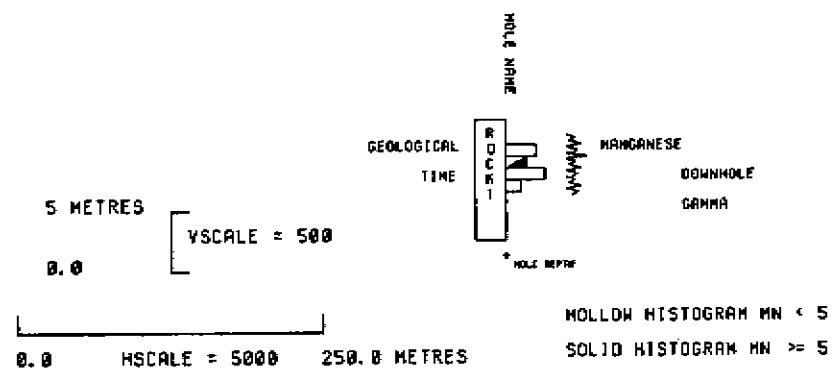
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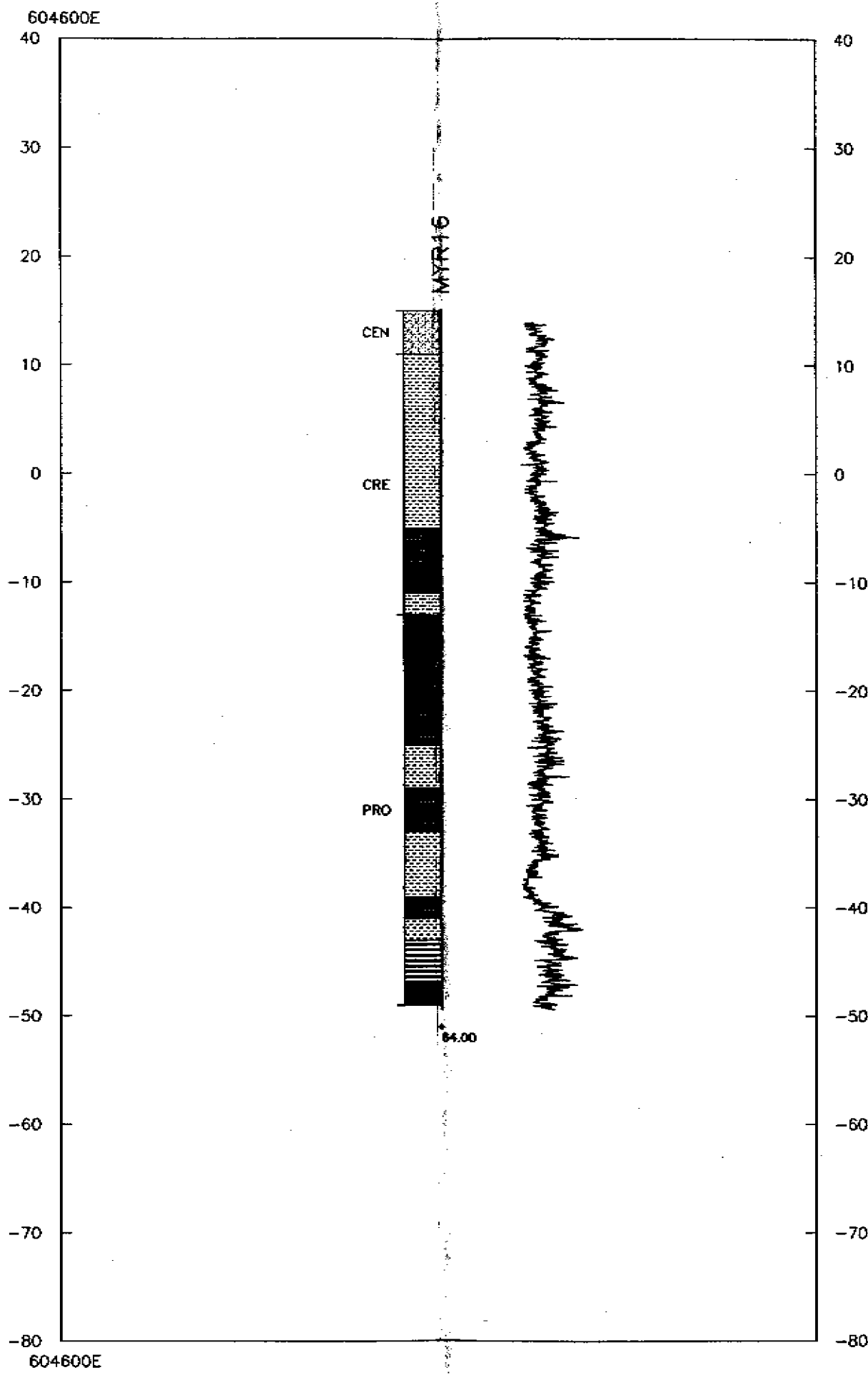
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CLAY/CLAYSTONE

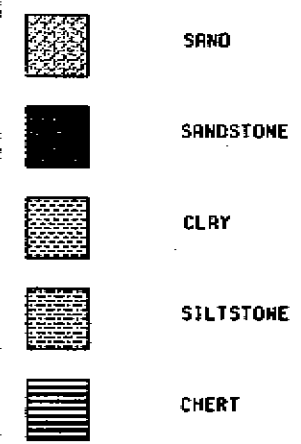


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CARPENTARIA MANGANESE PROGRAM		
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REVIEWED BY: H. ANDERSON	REVIEWED BY: H. ANDERSON	
CHECKED BY: H. ANDERSON	DRILLING NO.: H. ANDERSON	



LEGEND

GEOLOGY

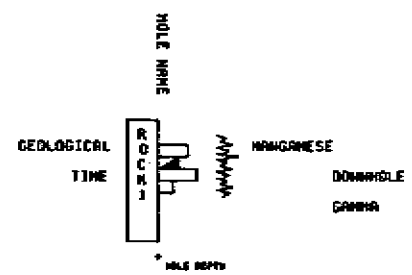


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VSCALE = 500

0.0 HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MM < 5

SOLID HISTOGRAM MM > 5

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NCARTHUR RIVER DRILLING 1993		
CARPENTARIA HANAGANESE PROGRAM		
DRILLHOLE MYR16		
PREPARED BY: J. HANAGANESE	DATE: 15-08-93	ENGINE: J. HANAGANESE
DRAWN BY: J. HANAGANESE	REVISIT:	
CHECKED:	MANAGE NO.:	

606300E

40

30

20

10

0

-10

-20

-30

-40

-50

-60

-70

606300E

MYR17

CEN

CRE

PRO

58.00

40

30

20

10

0

-10

-20

-30

-40

-50

-60

-70

LEGEND

GEOLOGY

- SAND
- SANDSTONE
- CLAY/CLAYSTONE
- LATERITE

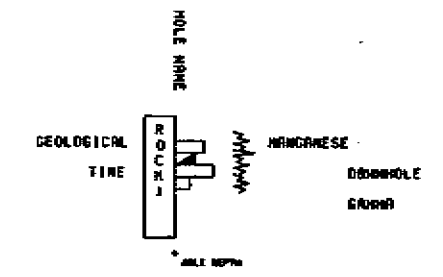
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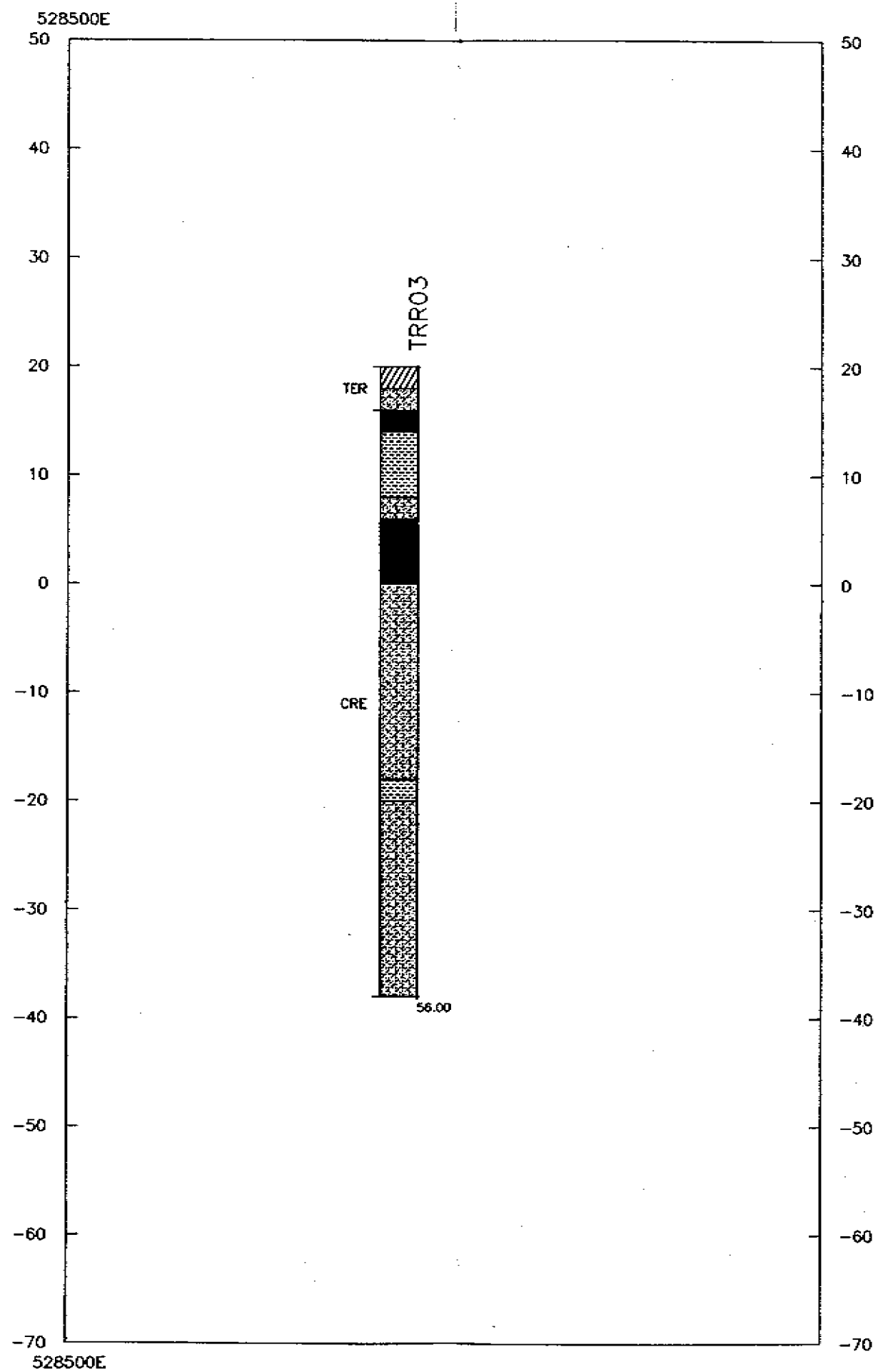
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HOLLOW HISTOGRAM MM < 5

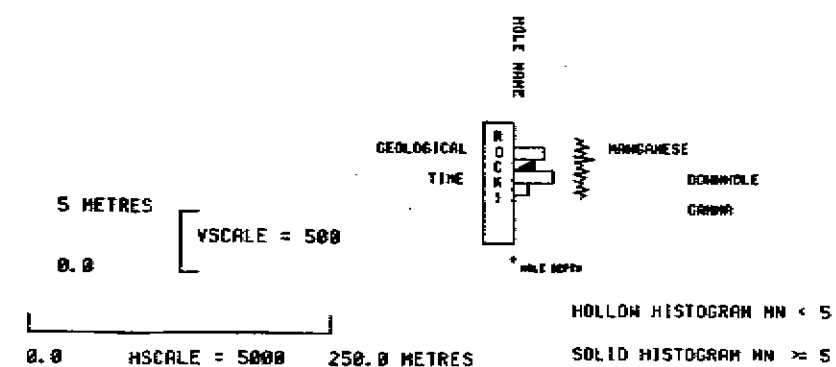
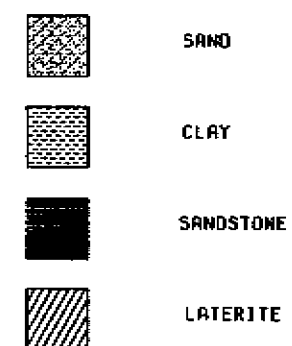
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BHP MINERALS PTY. LTD.		
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PREPARED BY: J. HARRISON	DATE: 15-08-93	CHECKED BY: M. HARRISON
DRAWN BY: J. HARRISON	REVIEWED BY:	
CHECKED BY:	DRILLING NO.:	

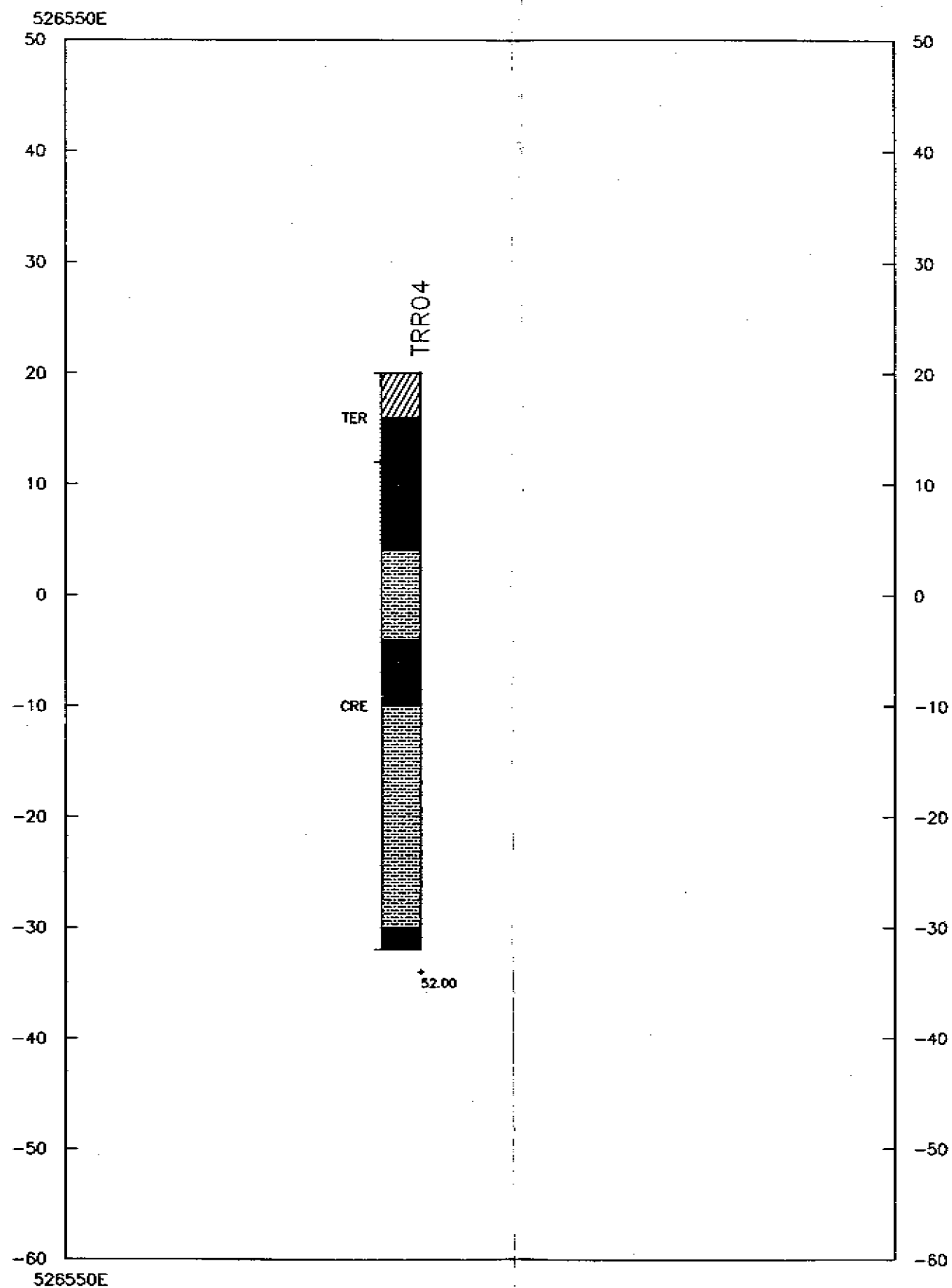


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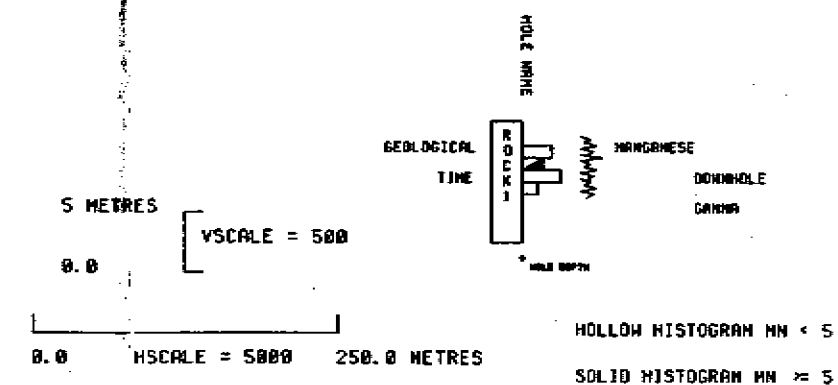
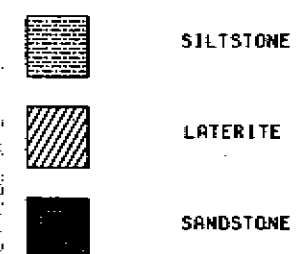


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CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR03		
PREPARED BY: H. J. JONES	DATE: 17-08-93	CHECKED BY: H. J. JONES
DESIGNED BY: H. J. JONES	REVISED BY:	
CHECKED BY:	DRILLING NO.:	

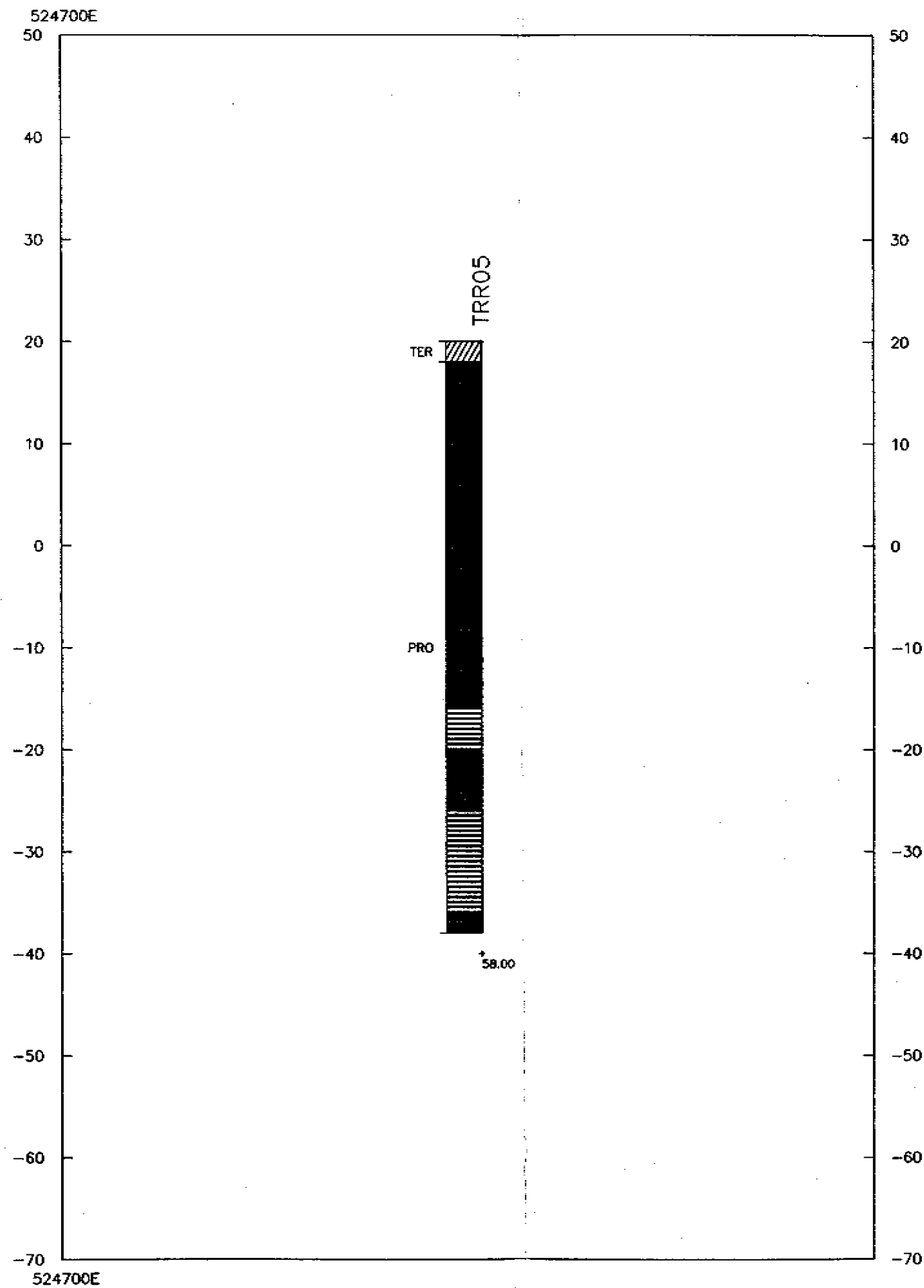


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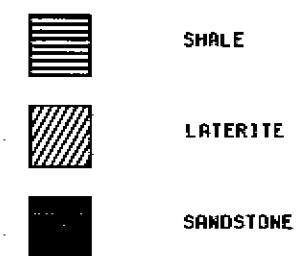


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NORTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
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PREPARED BY: A. HARRISON	DATE: 17-08-93	CHECKED BY: A. HARRISON
DRAWN BY: A. HARRISON	REVIEWED BY:	
CHECKED BY:	DATE: 17-08-93	



LEGEND

GEOLOGY

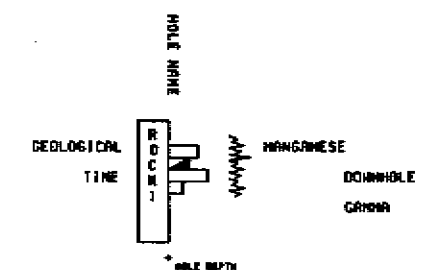


5 METRES

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VSCALE = 500

0.0 HSCALE = 5000 250.0 METRES



BHP MINERALS PTY. LTD.		
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CARPENTARIA MANGANESE PROGRAM		
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PREPARED BY: J. HARRISON	DATE: 17-08-99	CHECKED BY: J. HARRISON
DRAWN BY: J. HARRISON	REVIEWED BY:	
CHECKED BY:	REVIEWED BY:	

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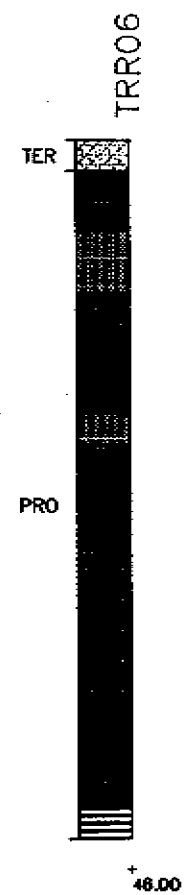
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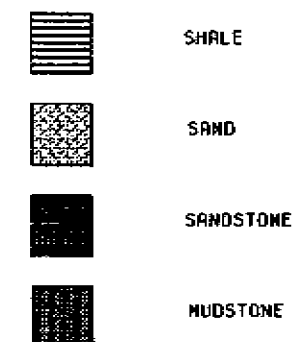
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GEOLOGY



5 METRES

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VSCALE = 500

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HSCALE = 5000 250.0 METRES

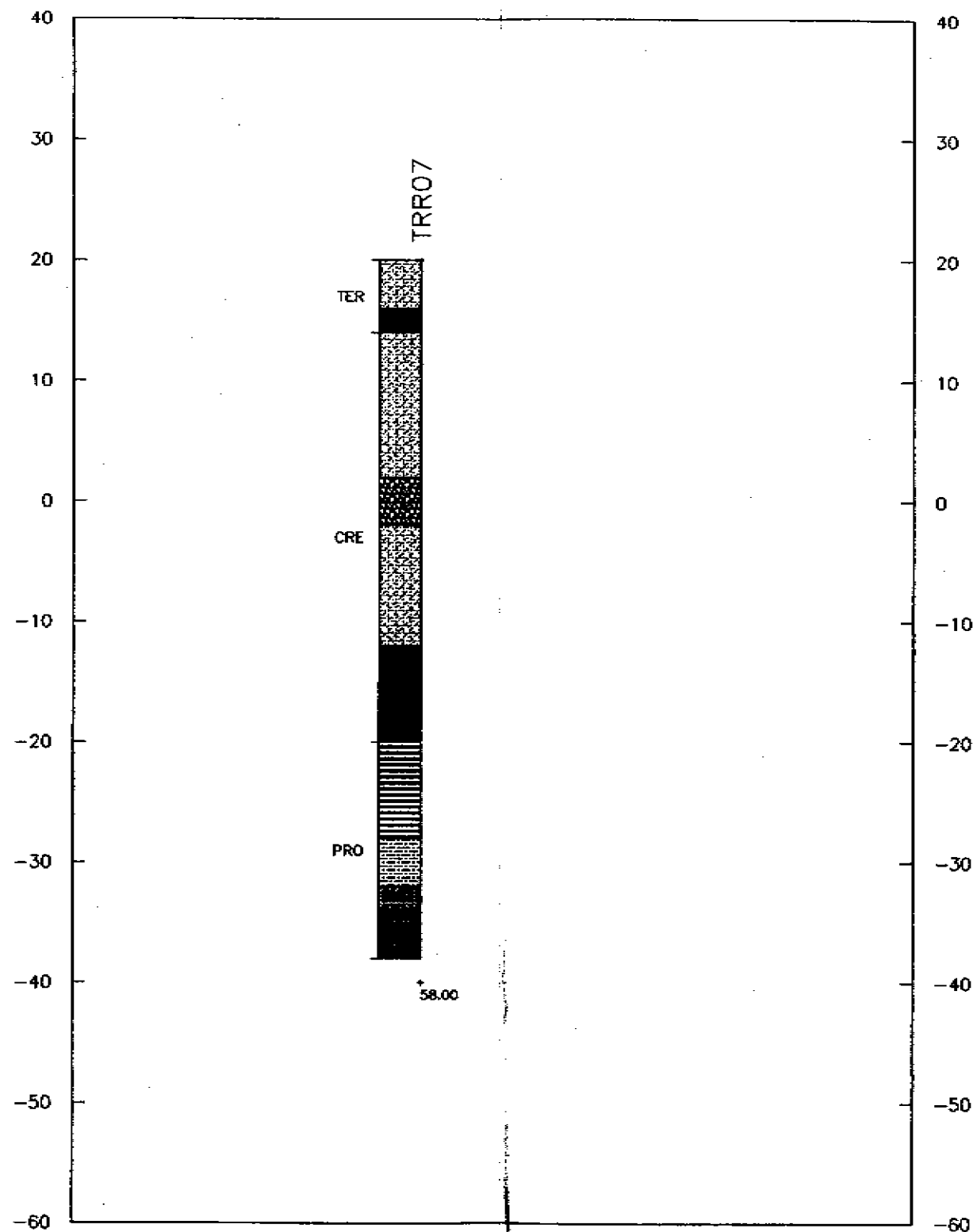
GEOLOGICAL
TIMEHOLE NAME
TRR06MANGANESE
DOMINANT
GANGUE

HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN > 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR06		
PREPARED BY: N. HALL/0000	DATE: 17-08-93	CHECKED BY: N. HALL/0000
REVIEWED BY: N. HALL/0000	REVIEWED BY: N. HALL/0000	
CHECKED BY: N. HALL/0000	REVIEWED BY: N. HALL/0000	

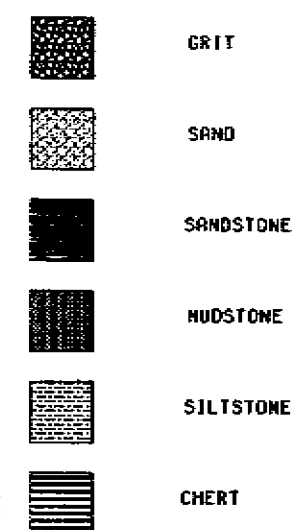
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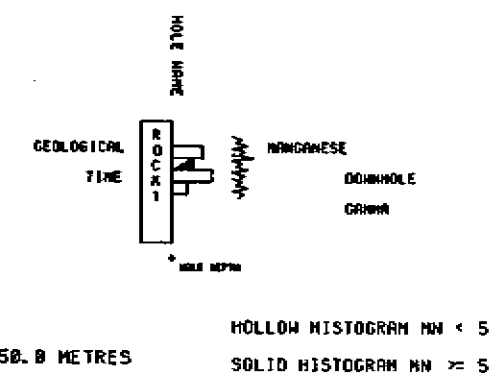


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VSCALE = 500

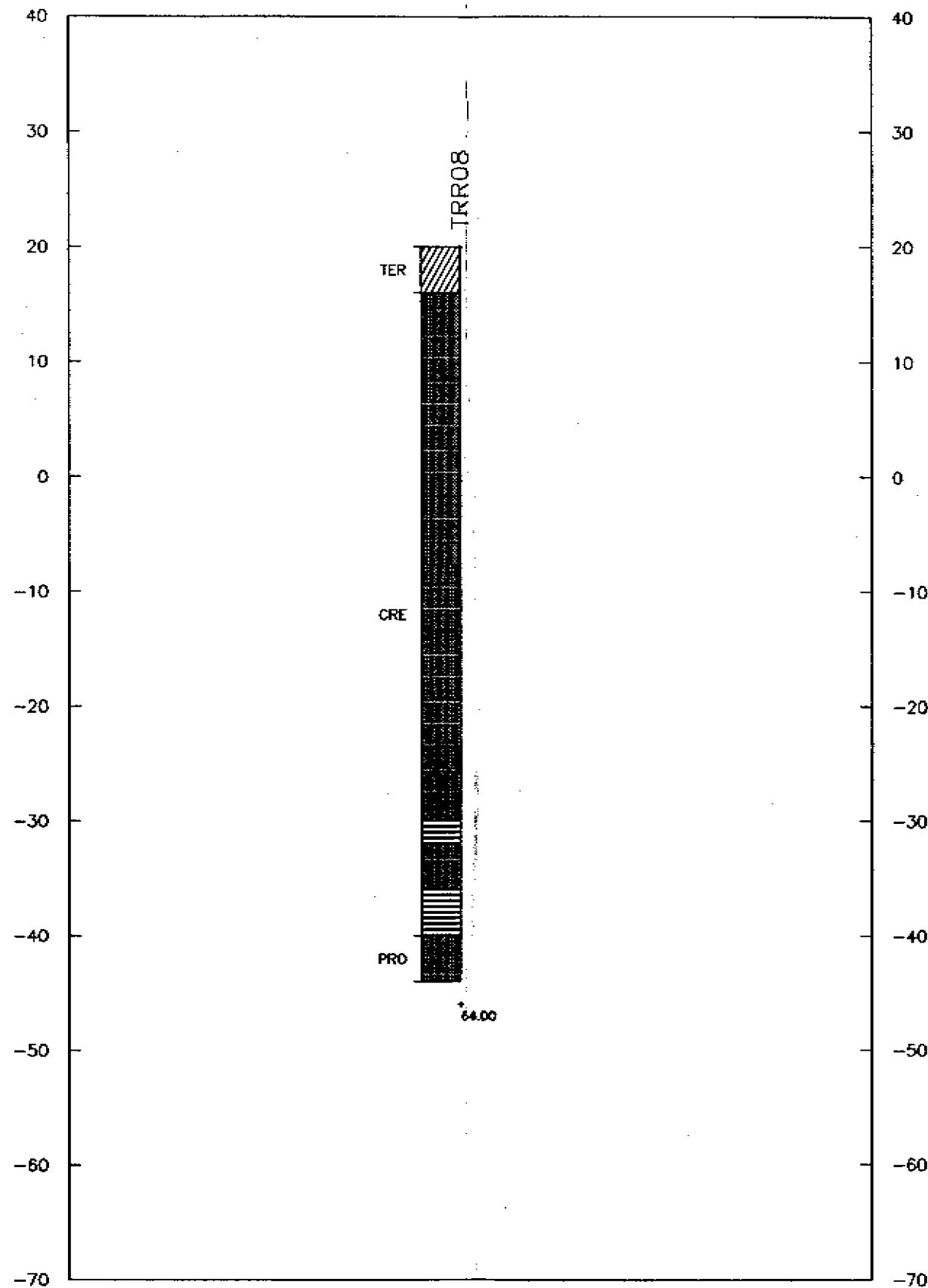
0.0 HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MN < 5
SOLID HISTOGRAM MN >= 5

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CARPENTARIA NANGARISE PROGRAM		
DRILLHOLE TRR07		
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CHECKED BY:	DRAWING NO.:	

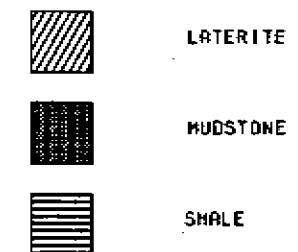
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LEGEND

GEOLOGY

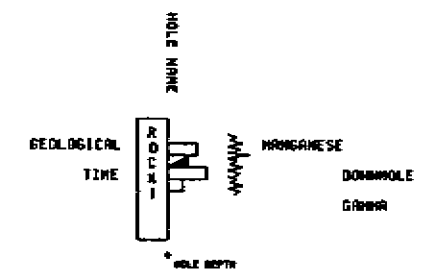


5 METRES

0.0

VSCALE = 500

0.0 HSCALE = 5000 250.0 METRES

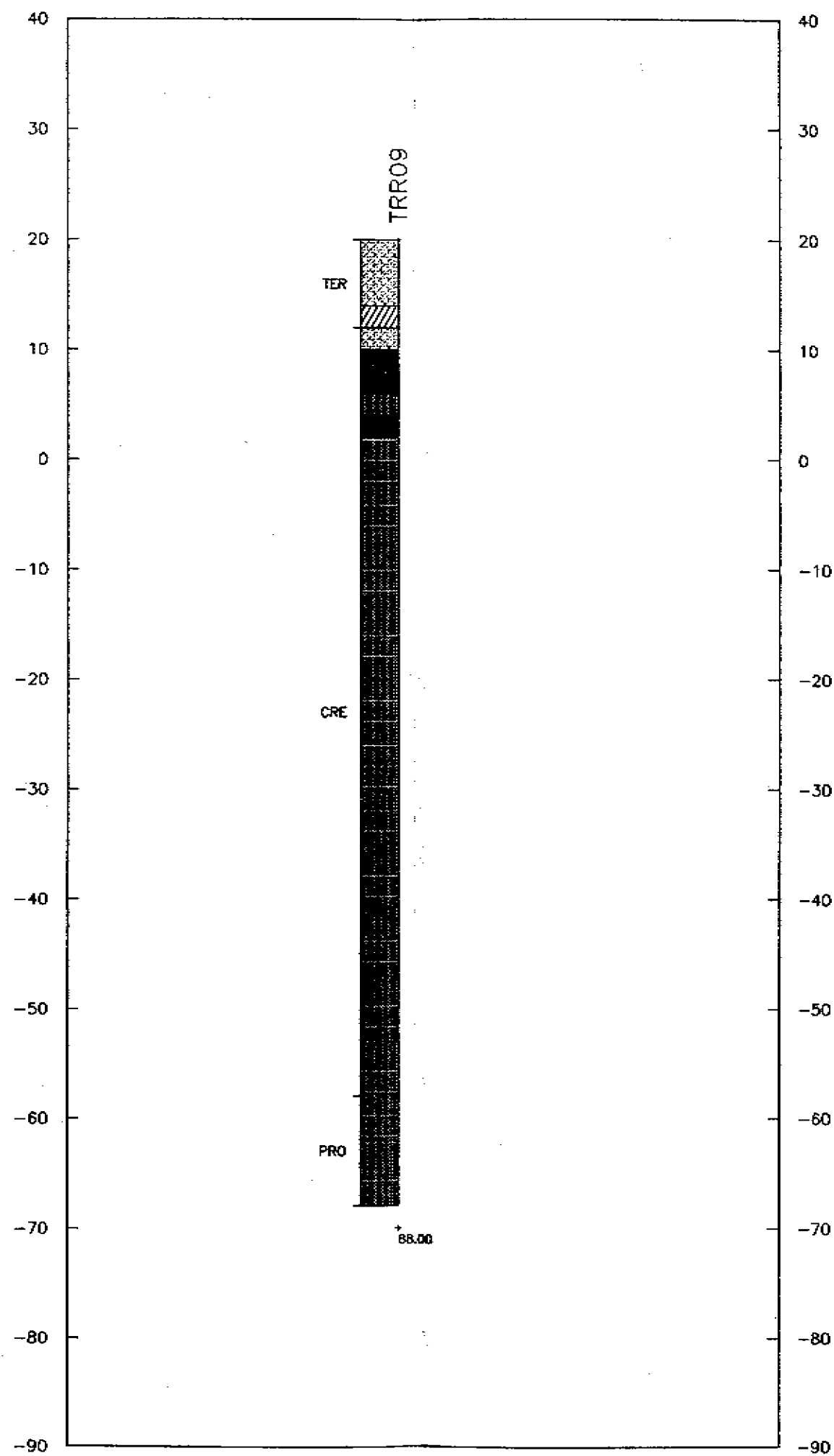


HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN >= 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR08		
PREPARED BY: J. W. 10/01/93	DATE: 10-01-93	CHECKED BY: J. W. 10/01/93
DRAWN BY: J. W. 10/01/93	REVIEWED BY: J. W. 10/01/93	
CHECKED BY: J. W. 10/01/93	APPROVED BY: J. W. 10/01/93	

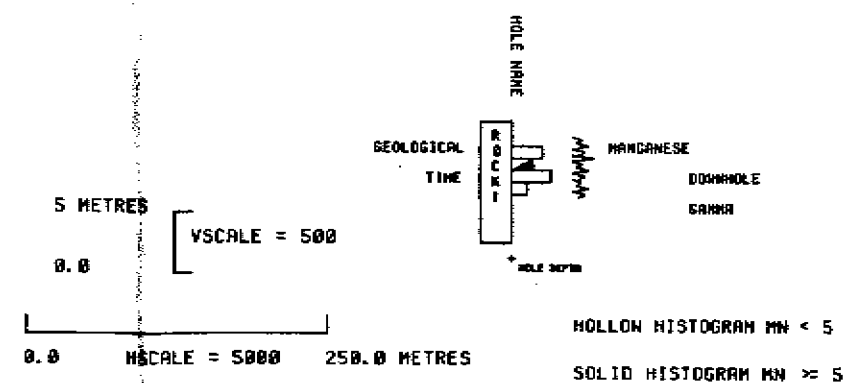
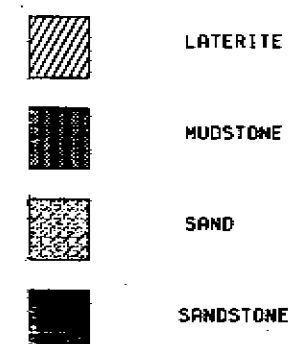
8318300N



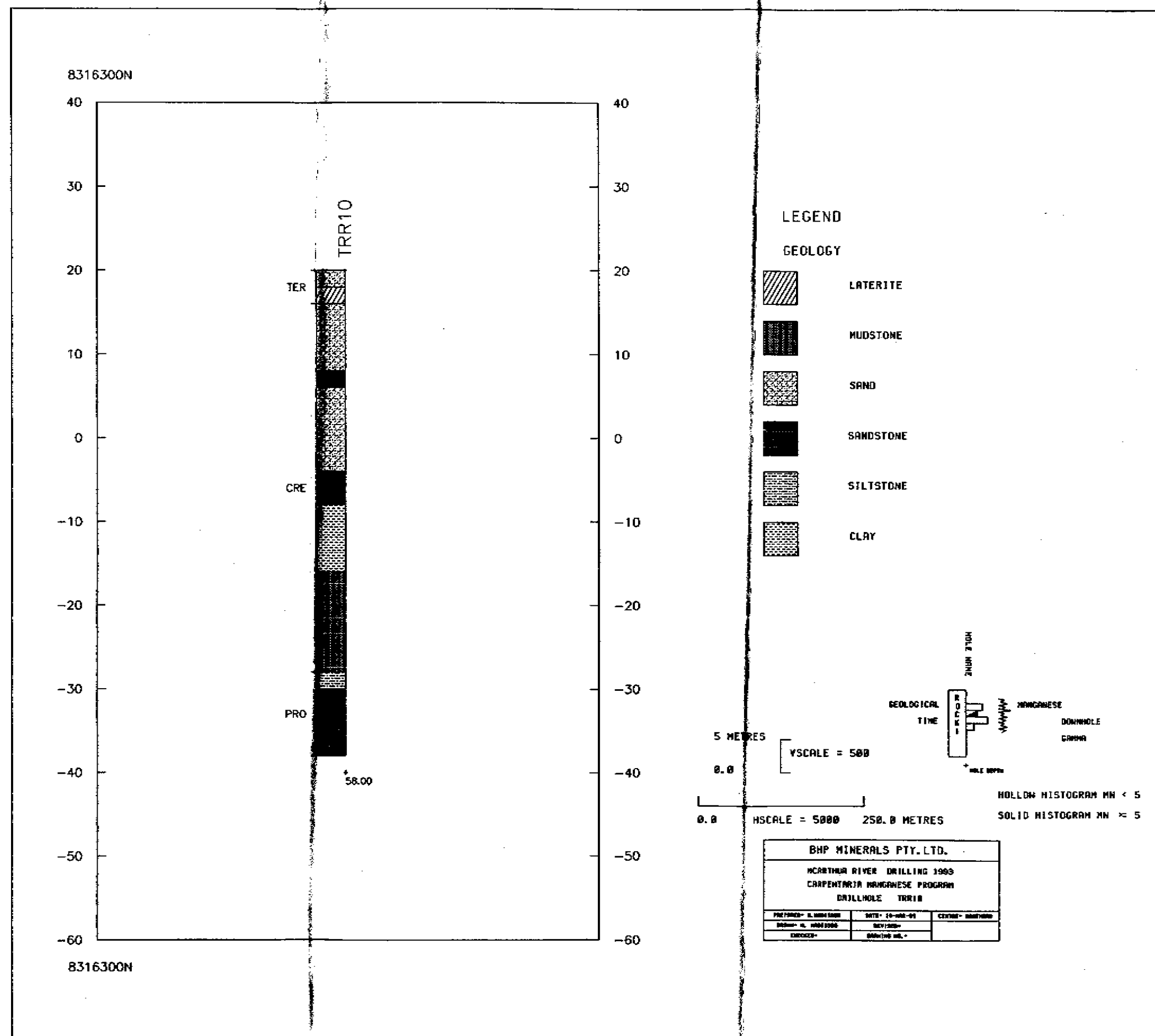
8318300N

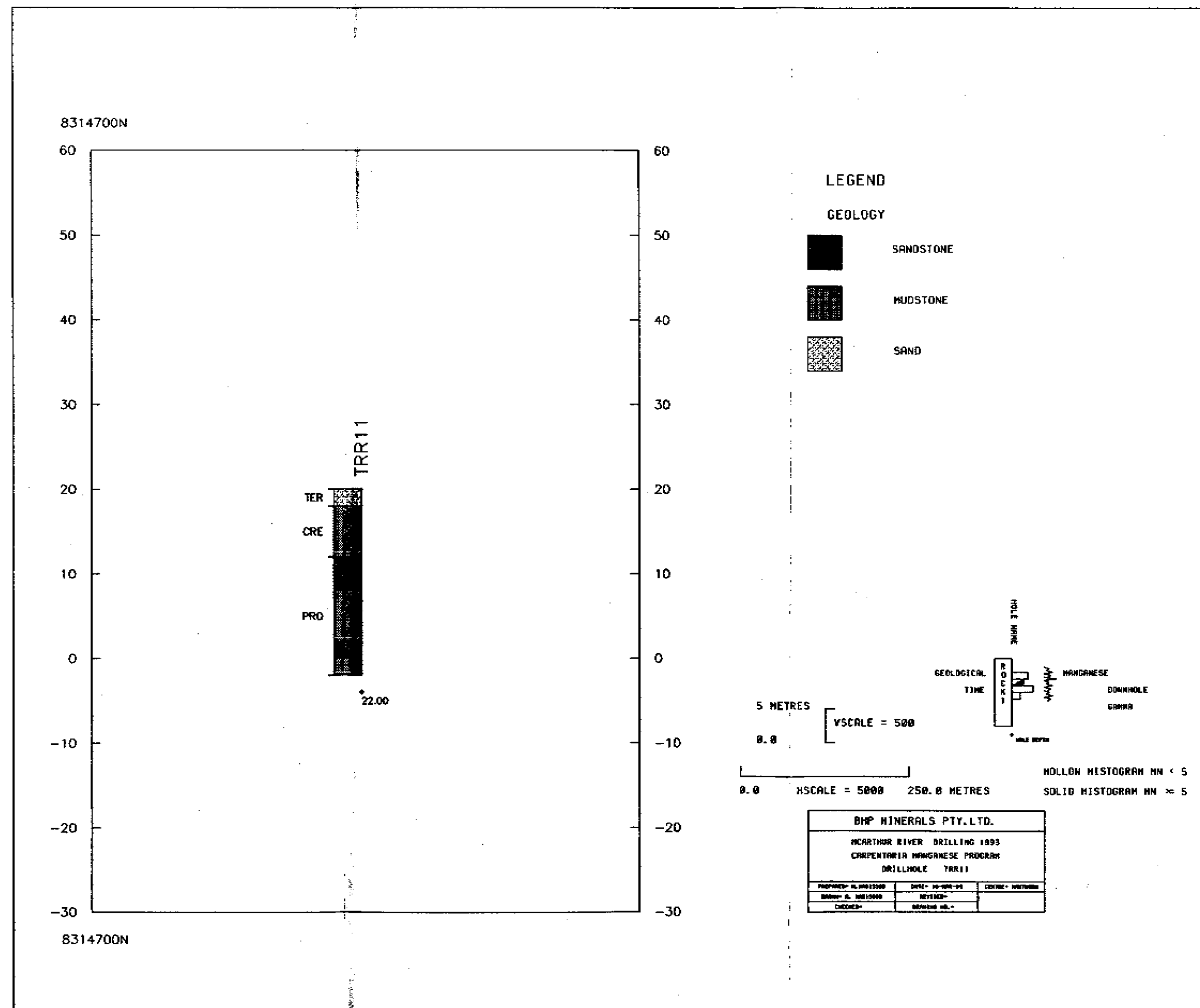
LEGEND

GEOLOGY

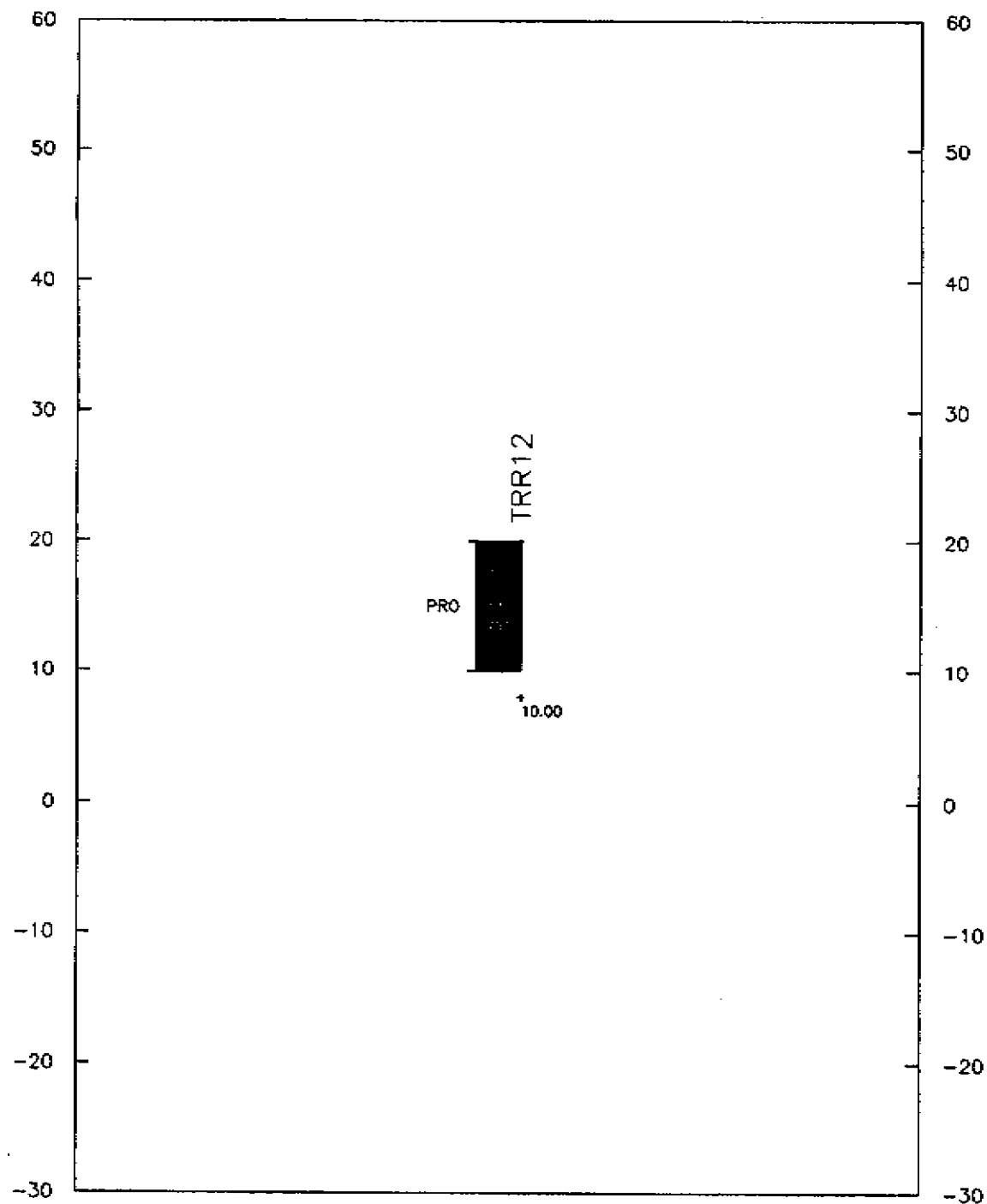


BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR09		
PREPARED BY: A. BROWN	DATE: 10-04-93	CHECKED: M. HARRIS
REVIEWED BY: A. BROWN	REVIEWED:	
DRAWN BY: A. BROWN	DATE: 10-04-93	





8322200N



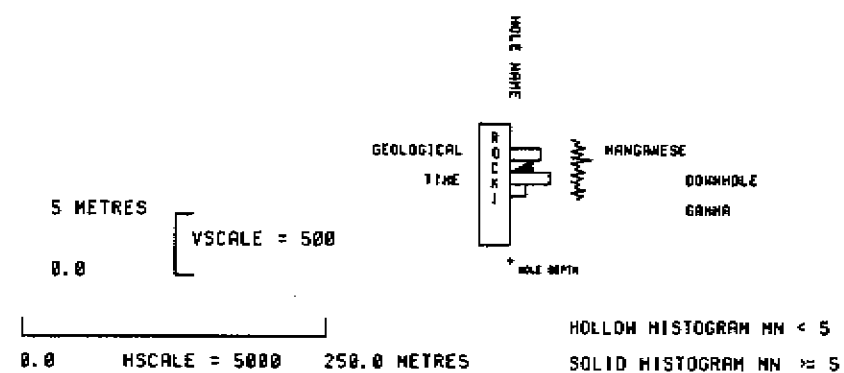
8322200N

LEGEND

GEOLOGY



SANDSTONE

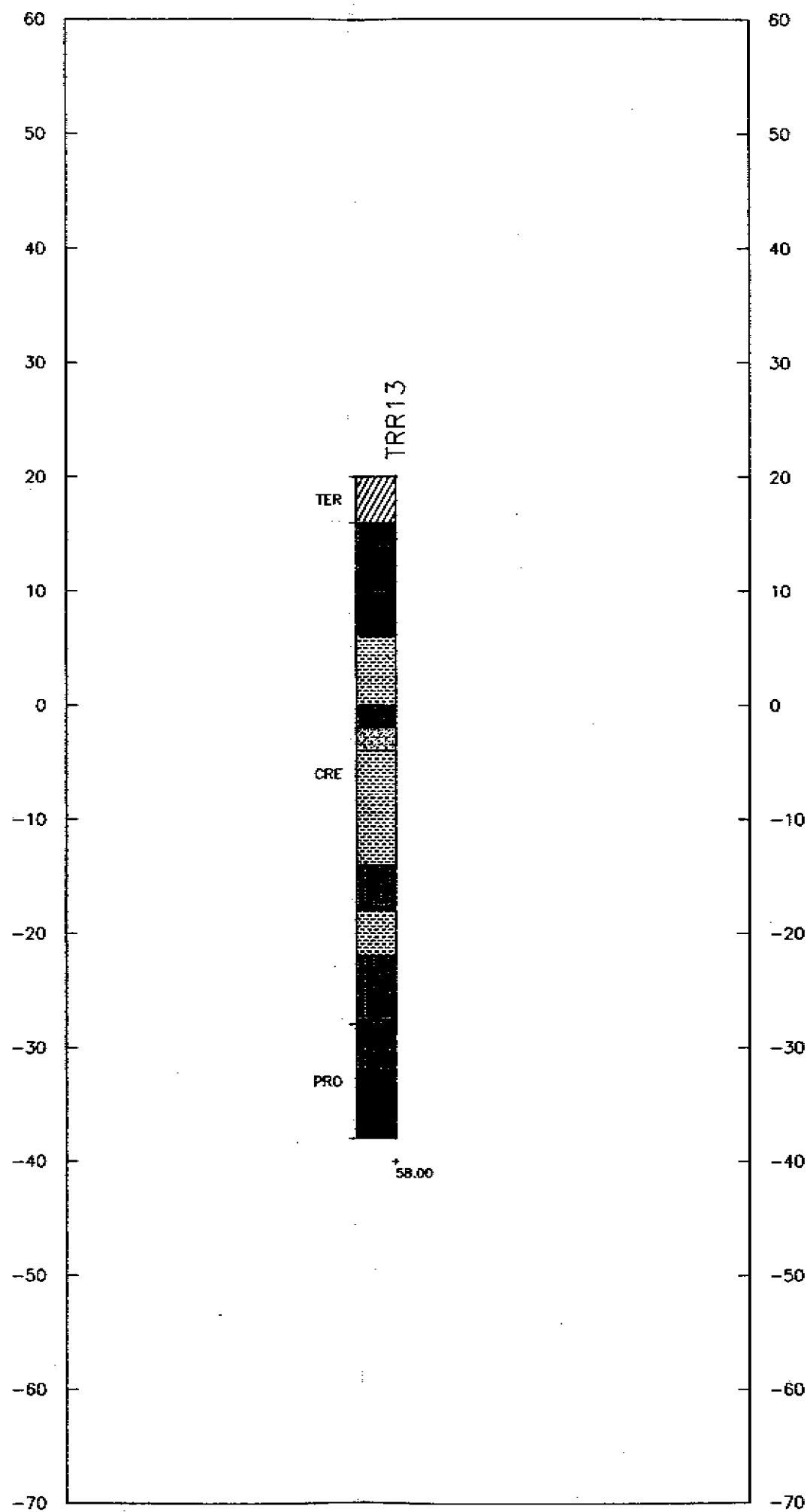


BHP MINERALS PTY. LTD.

MCARTHUR RIVER DRILLING 1983
 CARPENTARIA MANGANESE PROGRAM
 DRILLHOLE TRR12

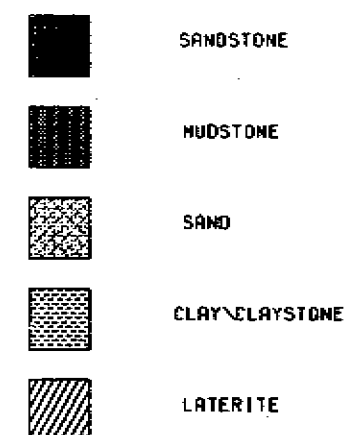
PREPARED BY: A. M. B. B. B.	DATE: 18-04-84	CENTRE: M. B. B.
REVIEWED BY: A. M. B. B. B.	REVIEWED: 18-04-84	
CHECKED BY: A. M. B. B. B.	CHECKED: 18-04-84	

8323500N



LEGEND

GEOLOGY



5 METRES

0.0

YSCALE = 500

0.0

HSCALE = 5000

250.0 METRES

HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN > 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR13		
PREPARED BY: H. M. 13000	DATE: 10-NOV-93	CHECKED BY: H. M. 13000
DESIGNED BY: H. M. 13000	REVISED BY:	
DRAWN BY: H. M. 13000	DATE: 10-NOV-93	

8328450N

50

40

30

20

10

0

-10

-20

-30

-40

-50

-60

8328450N

TRR14

TER

CRE

PRO

46.00

50

40

30

20

10

0

-10

-20

-30

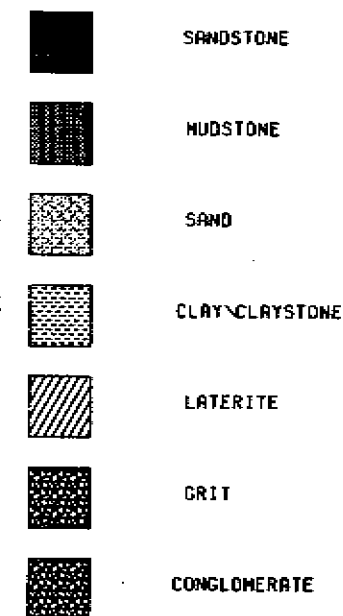
-40

-50

-60

LEGEND

GEOLOGY



5 METRES

0.8

VSCALE = 500

0.8

HSCALE = 5000 250.0 METRES

HOLE NAME

GEOLOGICAL
TIMEROCK
X 1

MANGANESE

DOWNHOLE
GRAB

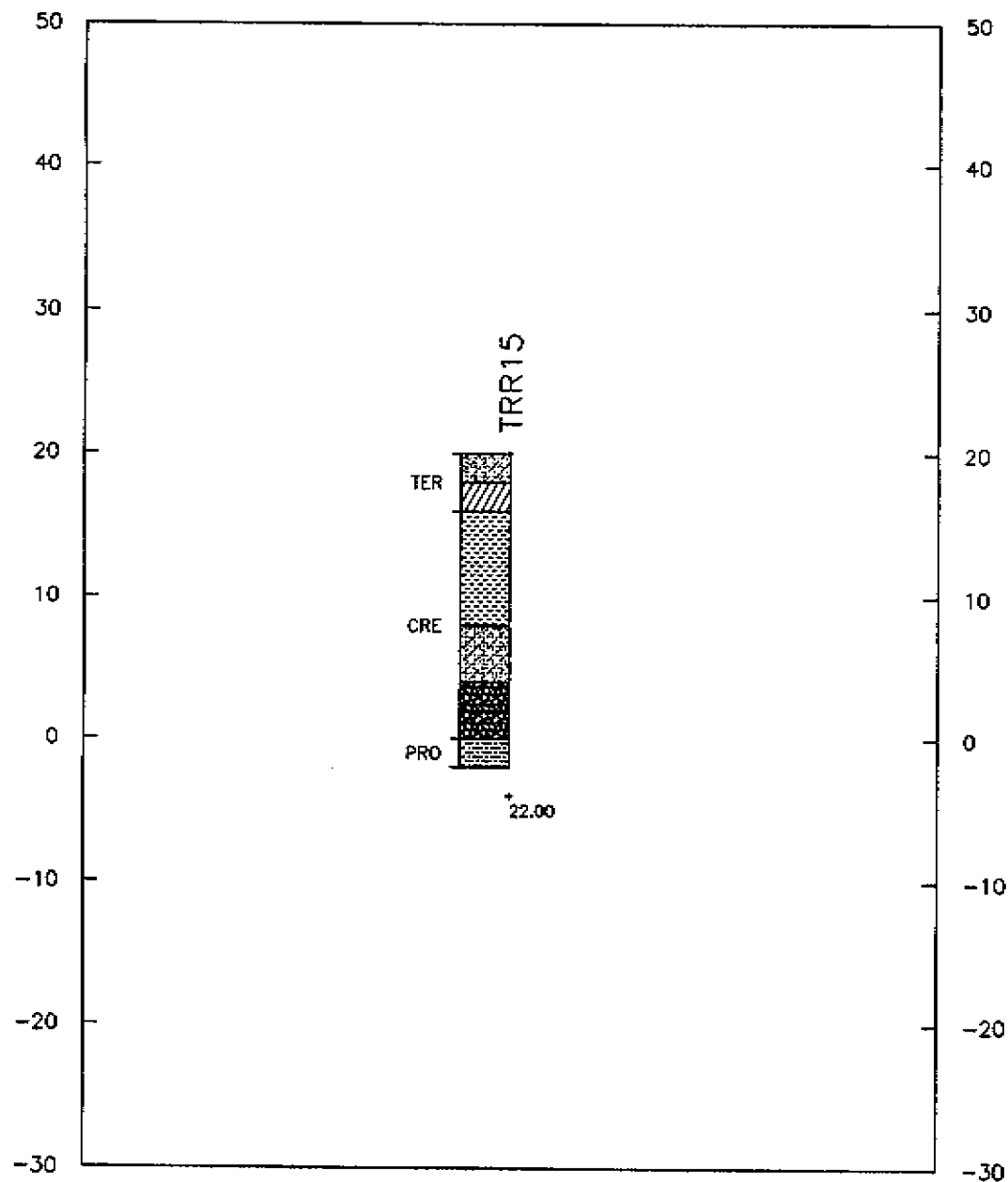
HOLE DEPTH

HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN >= 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1983		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR14		
PREPARED BY: A. MORTIMER	DATE: 10-10-84	CHECKED: J. MORTIMER
REVIEWED BY: A. MORTIMER	REVISION:	
CHECKED BY:	DATE:	

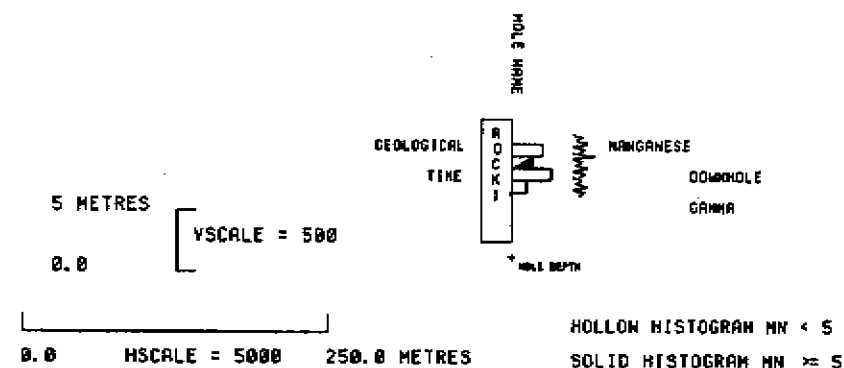
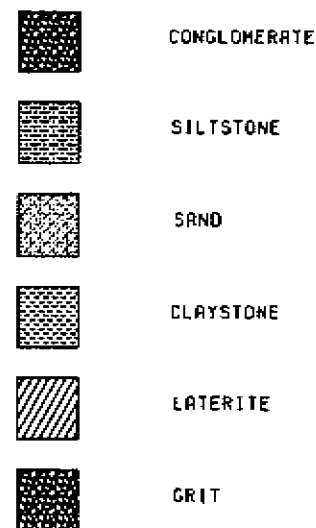
8330500N



8330500N

LEGEND

GEOLOGY



BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR15		
PREPARED BY: A. HARRISON	DATE: 18-08-93	CHECKED BY: M. HARRISON
DRAWN BY: A. HARRISON	DESIGNED BY:	
CHECKED BY:	QUANTITIES BY:	

523100E
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
523100E

TRR17
TER
CRE
PRO
+ 58.00

LEGEND

GEOLOGY

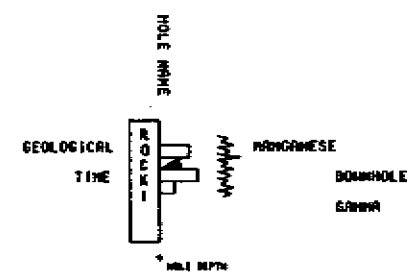
- SANDSTONE
- MUDSTONE
- SAND
- CONGLOMERATE
- GRIT
- LATERITE
- SILTSTONE

5 METRES

0.0

YSCALE = 500

0.0 HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MM < 5

SOLID HISTOGRAM MM ≥ 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR17		
PREPARED BY: J. WILSON	DATE: 21-08-94	CHECKED BY: M. WILSON
REVIEWED BY: J. WILSON	REVISION:	
CHECKED BY:	DRAWING NO.:	

521700E

50

40

30

20

10

0

-10

-20

-30

-40

-50

-60

521700E

TRR18

TER

CRE

PRO

56.00

50

40

30

20

10

0

-10

-20

-30

-40

-50

-60

LEGEND

GEOLOGY

	SANDSTONE
	DOLOMITE
	SAND
	CONGLOMERATE
	GRIT
	CLAY

5 METRES

0.0

VSCALE = 500

HSCALE = 5000 250.0 METRES

GEOLOGICAL
TIME

2400 2700

MANGANESE
DRILLHOLE
DATA

HOLLOW HISTOGRAM MM < 5

SOLID HISTOGRAM MM > 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR18		
PREPARED BY: H. ANDERSON	DATE: 21-MAR-95	CHECKED BY: H. ANDERSON
DESIGNED BY: H. ANDERSON	REVIEWED BY:	
DRAWN BY:	DATE: 21-MAR-95	

525950E

50

40

30

20

10

0

-10

-20

-30

-40

-50

525950E

TRR19

TER

CRE

PRO

52.00

50

40

30

20

10

0

-10

-20

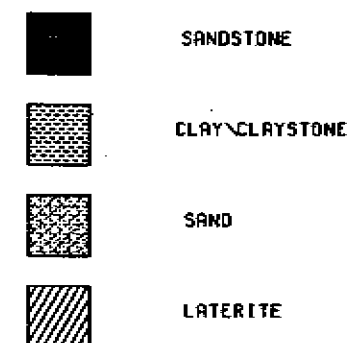
-30

-40

-50

LEGEND

GEOLOGY



5 METRES

VSCALE = 500

8.0

HSCALE = 5000

250.0 METRES

GEOLOGICAL
TIME

HOLE NR19

ROCK
1

MANGANESE

DOMINOLE

GAMMA

HOLE DEPTH

HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN > 5

BHP MINERALS PTY. LTD.

MCARTHUR RIVER DRILLING 1993

CARPENTARIA MANGANESE PROGRAM

DRILLHOLE TRR19

PREPARED BY: H. M. 15000

DATE: 23-MAR-94

CHECKED BY: H. M. 15000

DRAWN BY: H. M. 15000

REVISED BY:

CHECKED BY:

DRAWING NO.:

527250E

50

40

30

20

10

0

-10

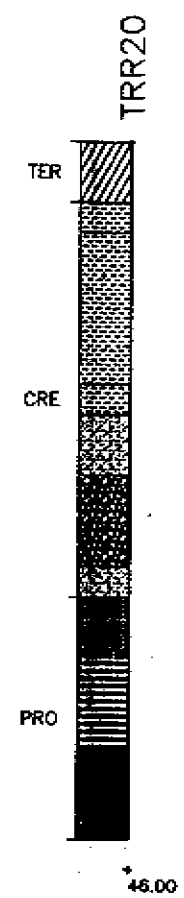
-20

-30

-40

-50

527250E



50

40

30

20

10

0

-10

-20

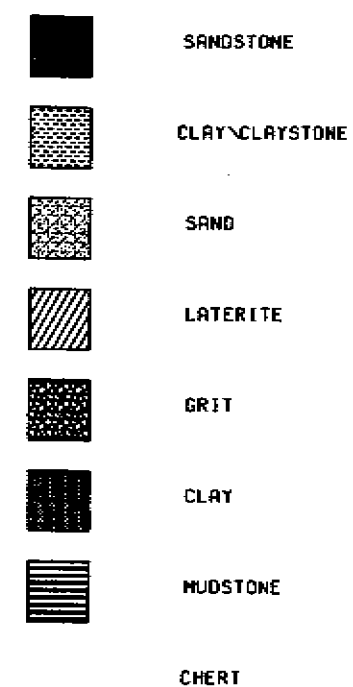
-30

-40

-50

LEGEND

GEOLOGY



5 METRES

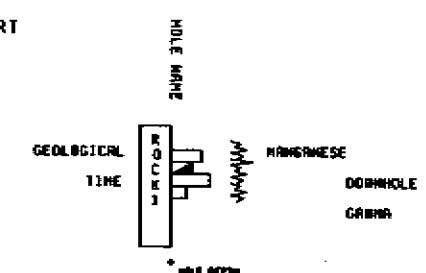
0.0

VSCALE = 500

0.0

HSCALE = 5000

250.0 METRES



HOLLOW HISTOGRAM MM < 5

SOLID HISTOGRAM MM > 5

BHP MINERALS PTY. LTD.		
NORTHAM RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR20		
PREPARED BY: J. HARRISON	DATE: 21-08-94	CHECKED BY: J. HARRISON
DRAWN BY: J. HARRISON	REVISION:	
CHECKED BY:	APPROVED BY:	

528700E

50

40

30

20

10

0

-10

-20

-30

-40

-50

528700E

TRR21

TER

CRE

PRO

+40.00

50

40

30

20

10

0

-10

-20

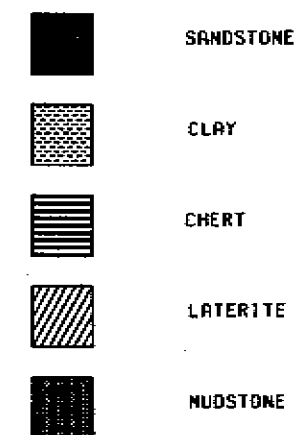
-30

-40

-50

LEGEND

GEOLOGY



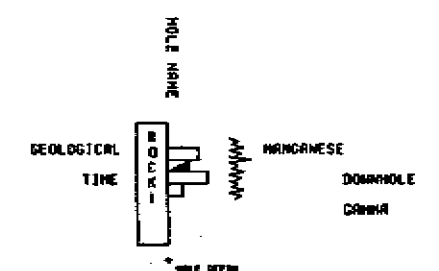
5 METRES

0.0

VSCALE = 500

0.0

HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN ≥ 5

BHP MINERALS PTY. LTD.

MCARTHUR RIVER DRILLING 1993

CARPENTARIA MANGANESE PROGRAM

DRILLHOLE TRR21

PREPARED- K. M. 1993	DATE- 21-08-93	CHECKED- M. M. 1993
REVIEWED- K. M. 1993	REVISION-	
CHECKED-	DATE- 01-09-93	

8337800N

50

40

30

20

10

0

-10

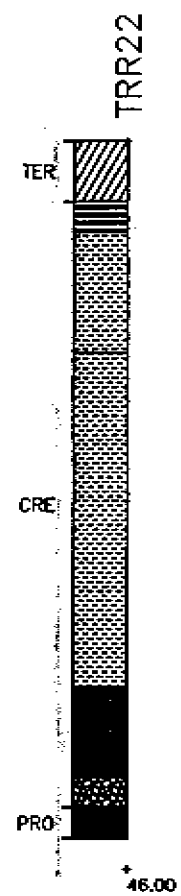
-20

-30

-40

-50

8337800N



50

40

30

20

10

0

-10

-20

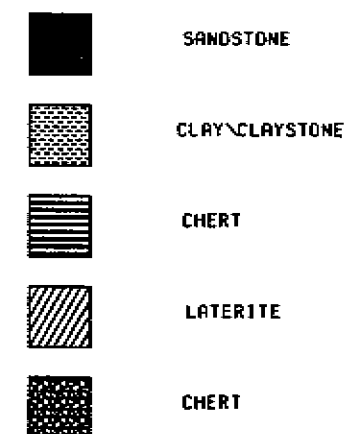
-30

-40

-50

LEGEND

GEOLOGY



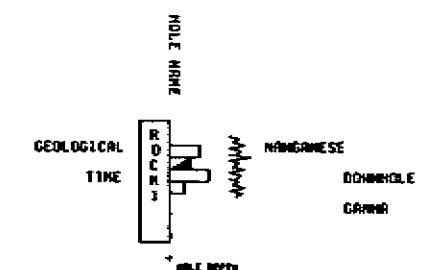
5 METRES

0.0

VSCALE = 500

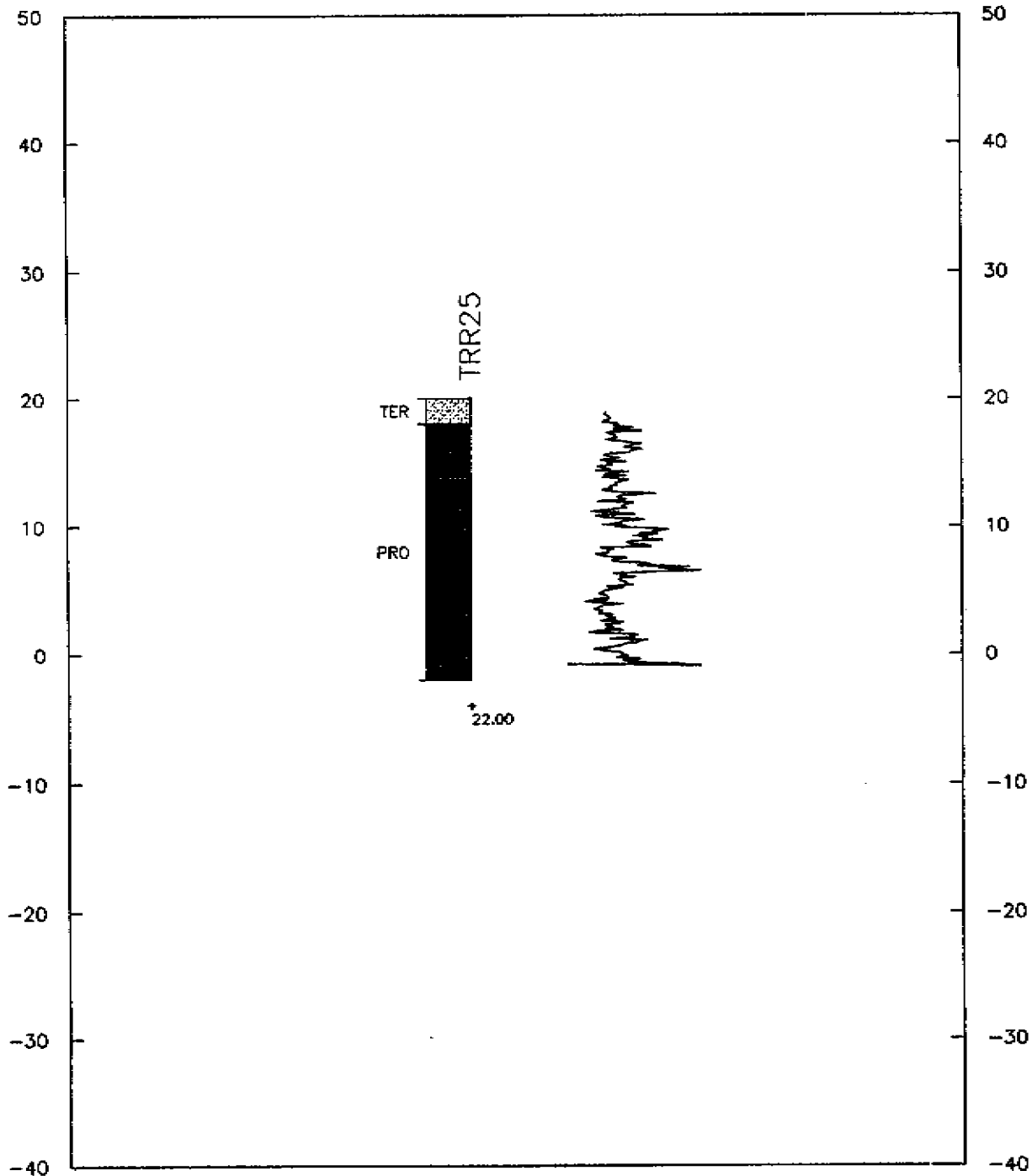
0.0

HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MM $\times 5$
 SOLID HISTOGRAM MM $\times 5$

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR22		
PREPARED BY: H. ANDERSON	DATE: 31-08-93	CHECKED BY: M. ANDERSON
DESIGNED BY: H. ANDERSON	REVISED BY:	
DRAWN BY:	APPROVED BY:	



LEGEND

GEOLOGY



5 METRES

0.0

VSCALE = 500

0.0 HSCALE = 5000 250.0 METRES

HOLE NAME

GEOLOGICAL
TIME



MANGANESE

DOWNHOLE
GAMMA

* HOLE DEPTH

HOLLOW HISTOGRAM MN < 5
SOLID HISTOGRAM MN ≥ 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR25		
PREPARED BY: A. HALL	DATE: 21-08-94	CHECKED BY: J. HALL
DRAWN BY: A. HALL	REVISION:	
CUT CHECKED:	REVISION NO.:	

8335800N

64.00



SOIL

0.5

```
YSCALE = 500
```

0.0 HSCALE = 5000 250.0 METRES

**GEOLOGICAL
TIME**

ROOM

NAME _____

五

WESE

06/08/19

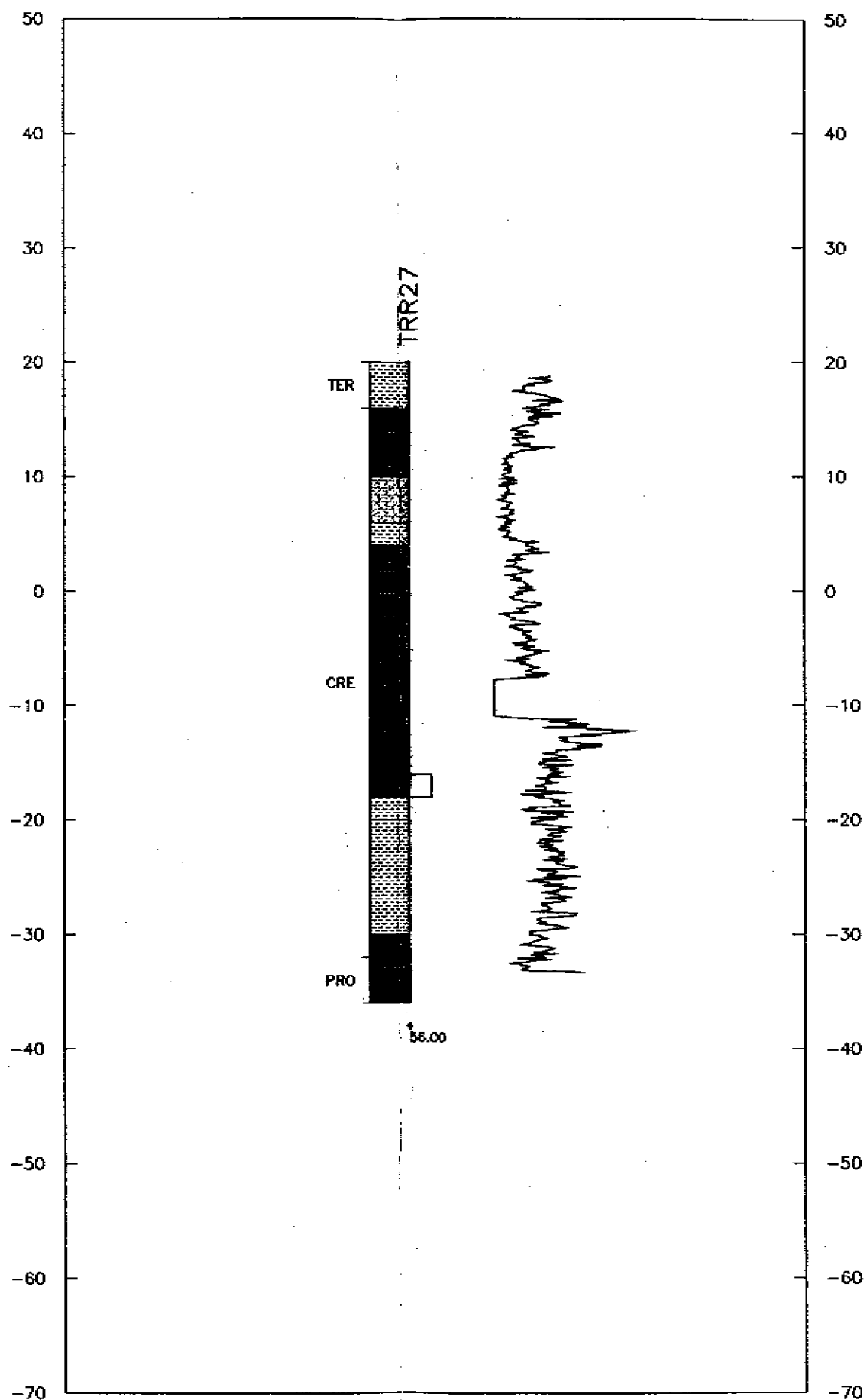
HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN ≈ 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGROVE PROGRAM		
DRILLHOLE TRR24		
PERMIT NO. 1993000	DATE: 21-08-94	CUSTOMER: MWH
ISSUED BY: 1993000	NOTED:	
CONTROL:	REVISIONS:	

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993 CARPENTARIA MANGANESE PROGRAM: DRILLHOLE TR226		
FORMED - K. 34813990	DATE - 21 - 08 - 99	EXT - 1000
NAME - K. 34813990		
CHARGE:	Rate/1st. op.	

8332600N



8332600N

LEGEND

GEOLOGY

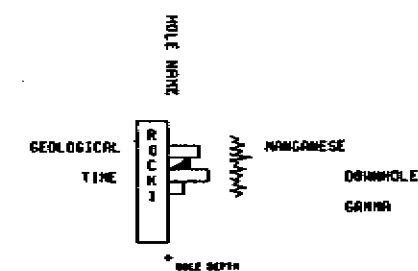


5 METRES

0.0

VSCALE = 500

0.0 HSCALE = 5000 250.0 METRES

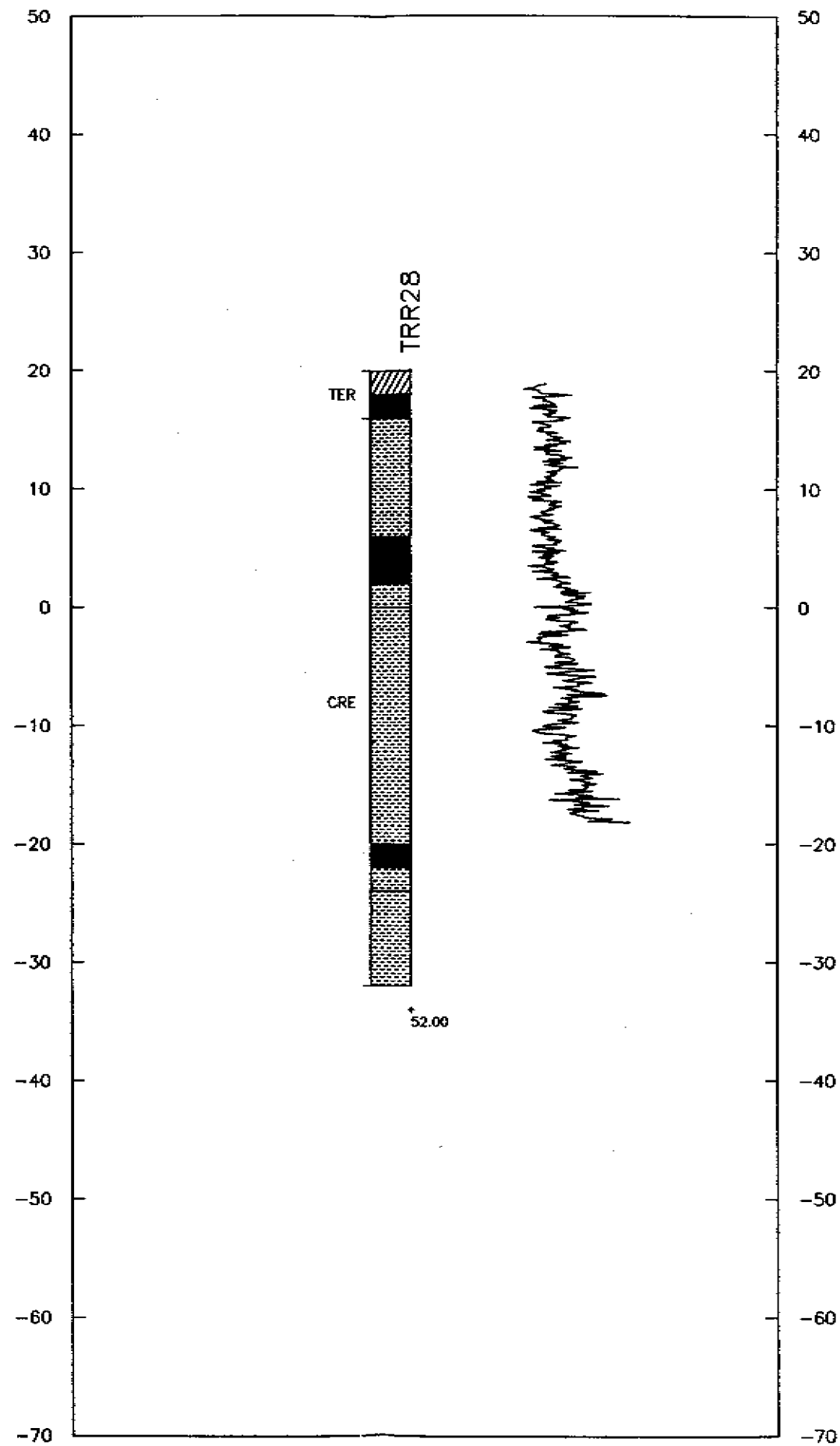


HOLLOW HISTOGRAM MM < 5

SOLID HISTOGRAM MM >= 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1893		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR27		
PREPARED BY: A. HUGHES	DATE: 21-08-94	CHECKED BY: J. HUGHES
DRAWN BY: J. HUGHES	REVISED:	
CHECKED:	DRILLHOLE NO.:	

8330700N



8330700N

517200E
50

50

40

30

20

10

0

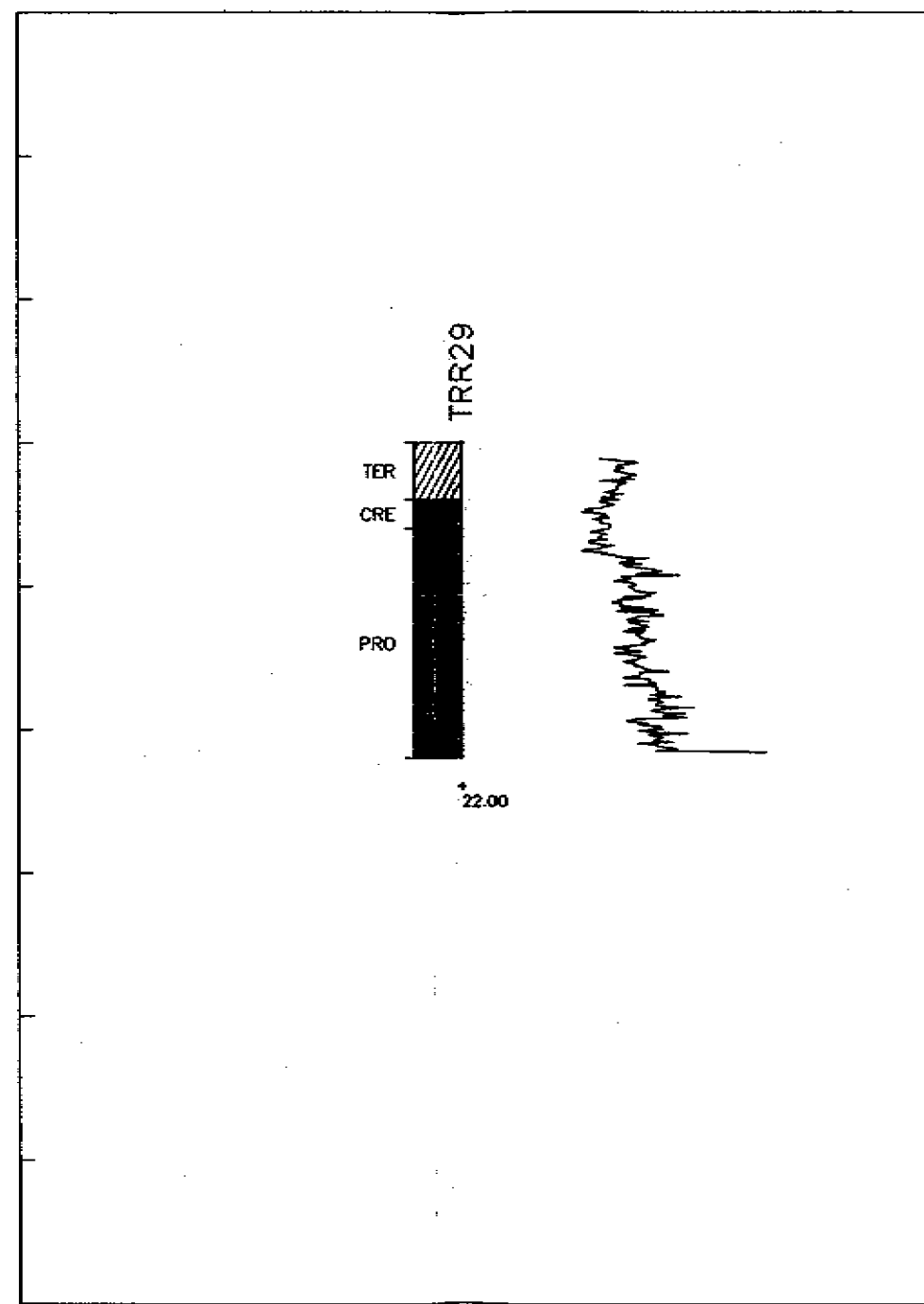
-10

-20

-30

-40

517200E



TRR29

TER
CRE
PRO

22.00

LEGEND

GEOLOGY

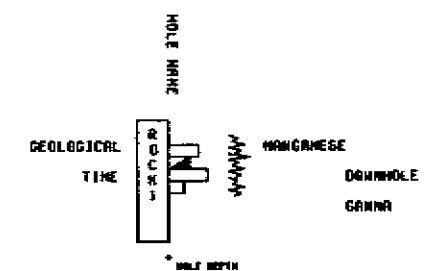


5 METRES

0.0

YSCALE = 500

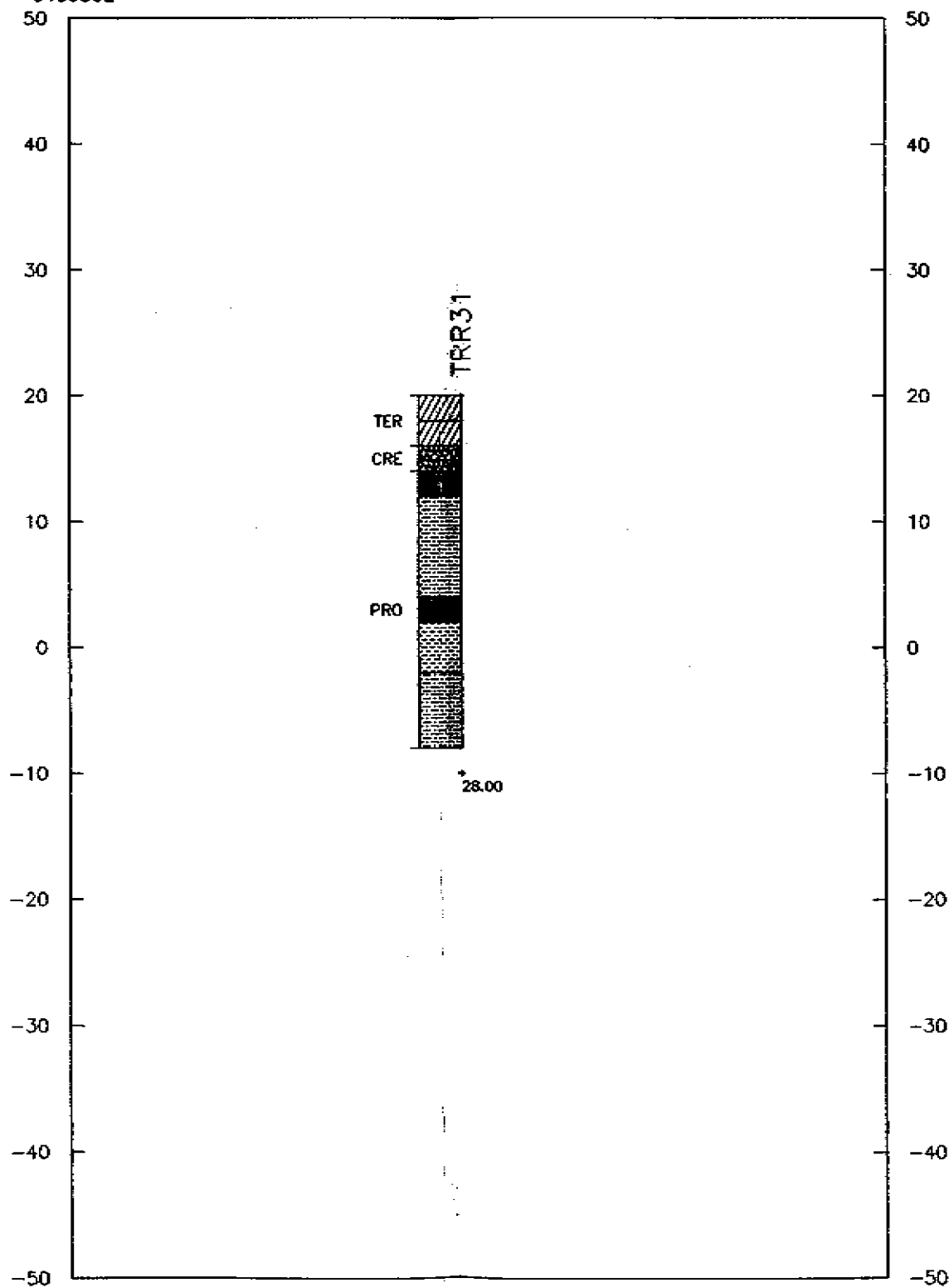
0.0 HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MN < 5
SOLID HISTOGRAM MN > 5

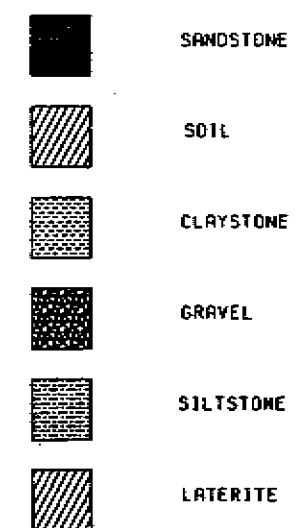
BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR29		
PREPARED BY: A. HARRISON	DATE: 22-08-94	CHECKED: HARRISON
DRAWN BY: A. HARRISON	REVISED:	
CHECKED:	DRAWING NO.:	

513950E



LEGEND

GEOLOGY

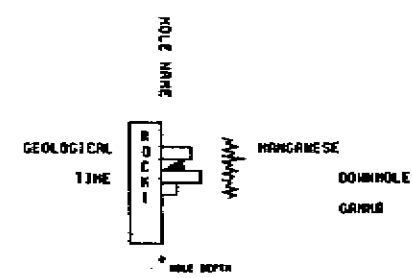


5 METRES

0.0

VSCALE = 500

0.0 HSCALE = 5000 250.0 METRES

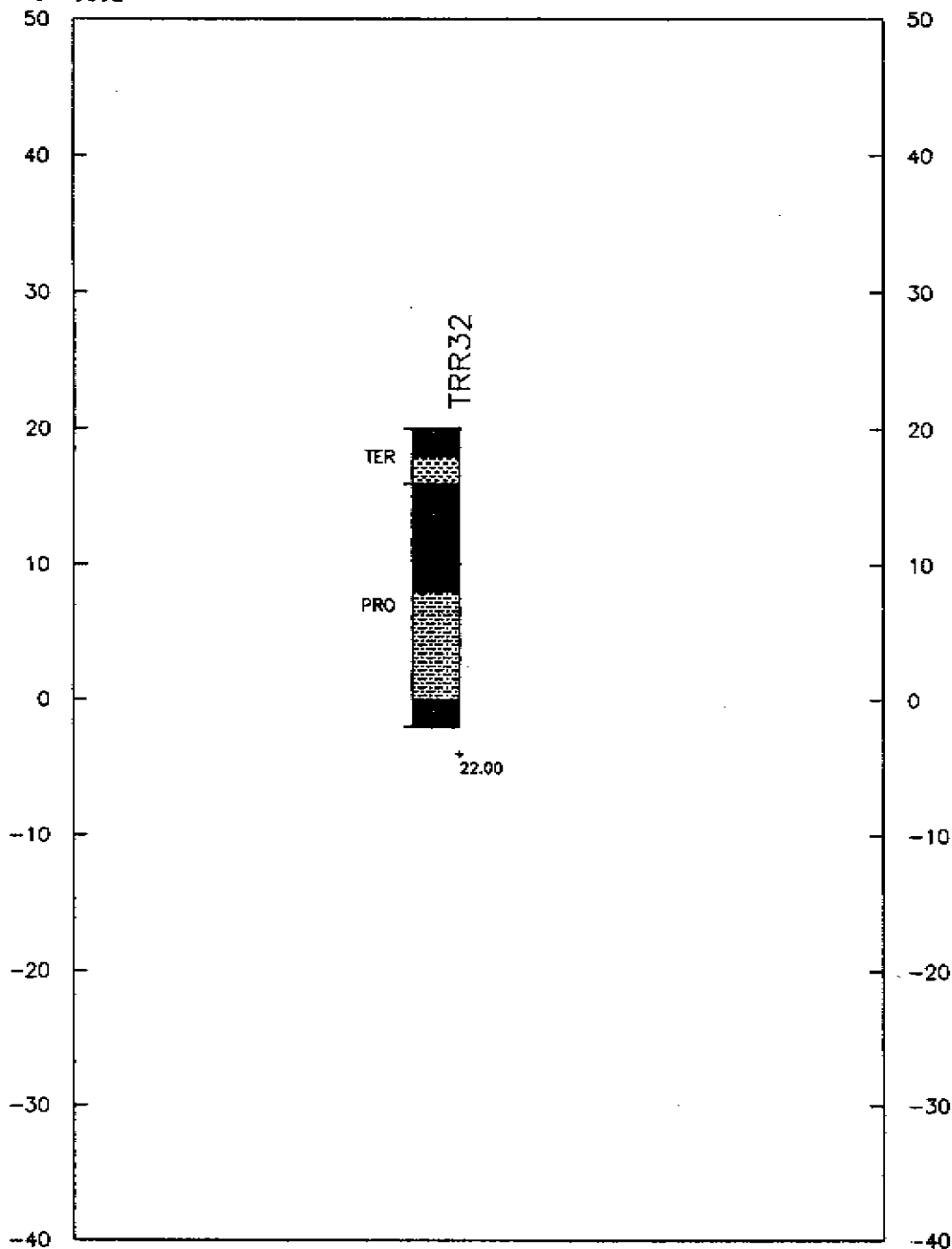


HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN ≥ 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR31		
PREPARED BY: J. HARRISON	DATE: 22-MAR-94	REVISION: 000000
DRAWN BY: J. HARRISON	REVIEWED:	
CHECKED:	DRAWING NO.:	

511350E



LEGEND

GEOLOGY



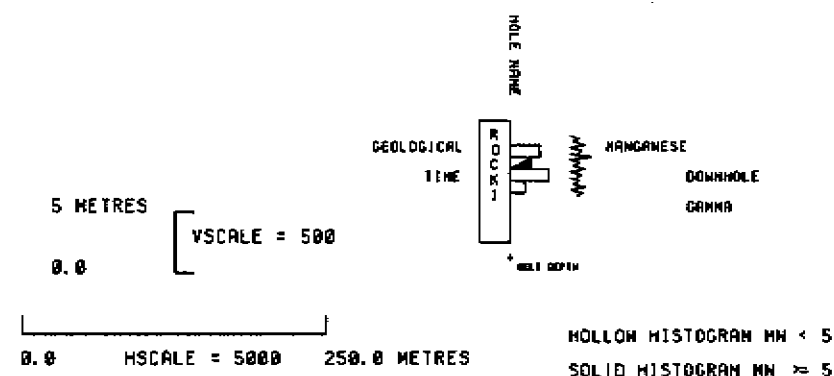
SANDSTONE



SILTSTONE



CLAYSTONE

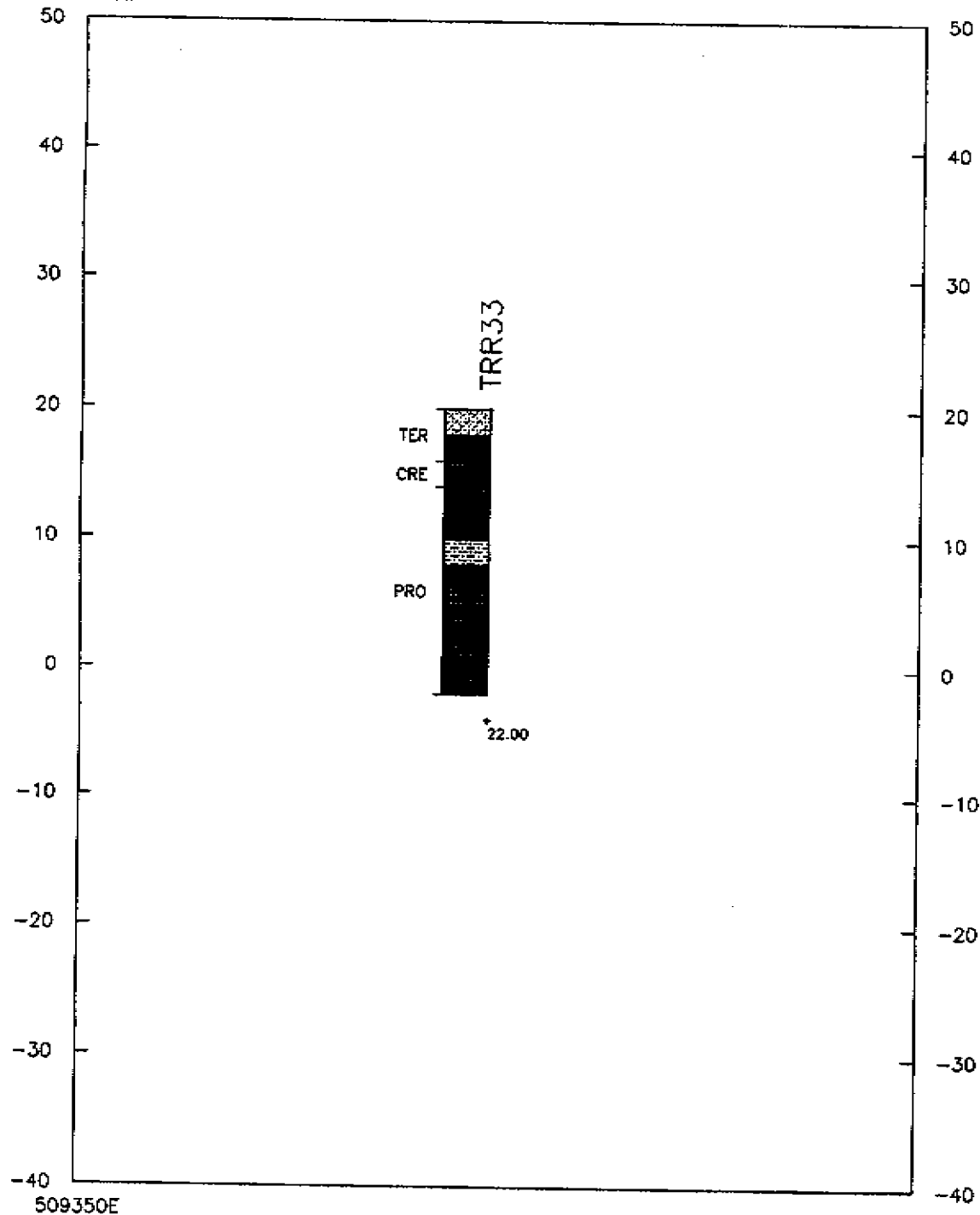


BHP MINERALS PTY. LTD.

MCARTHUR RIVER DRILLING 1992
CARPENTARIA MANGANESE PROGRAM
DRILLHOLE TRR32

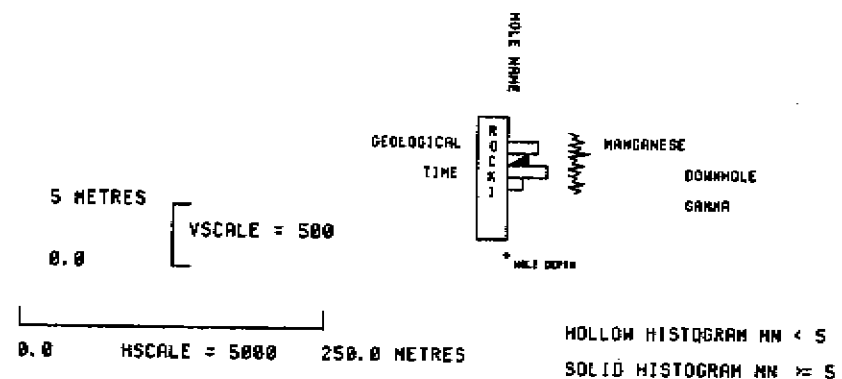
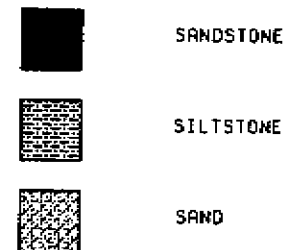
PREPARED BY: G. M. 10000	DATE: 22-MAR-92	CHECKED BY: M. 10000
DESIGNED BY: G. M. 10000	REVIEWED BY: M. 10000	
CHECKED BY: M. 10000	DRILLING NO.:	

509350E



LEGEND

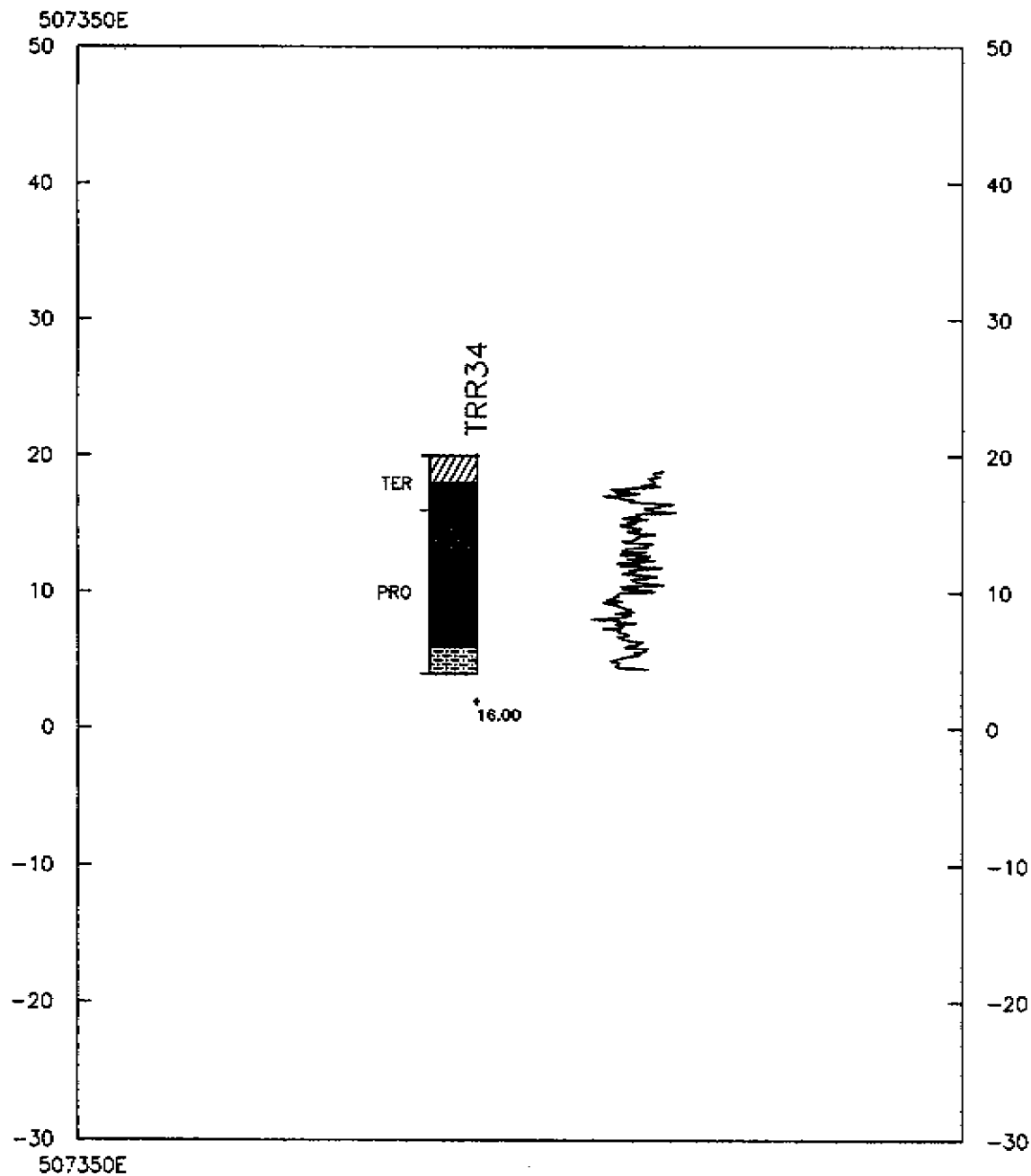
GEOLOGY



BHP MINERALS PTY. LTD.

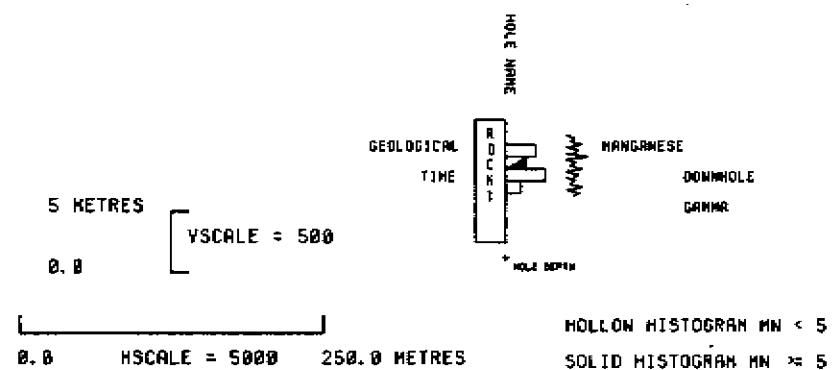
MCARTHUR RIVER DRILLING 1993
CARPENTARIA MANGANESE PROGRAM
DRILLHOLE TRR33

PREPARED BY: J. HARRISON	DATE: 22-08-94	CHECKED BY: J. HARRISON
REVIEWED BY: J. HARRISON	REVIEWED BY:	
CHECKED BY:	REVIEWED BY:	

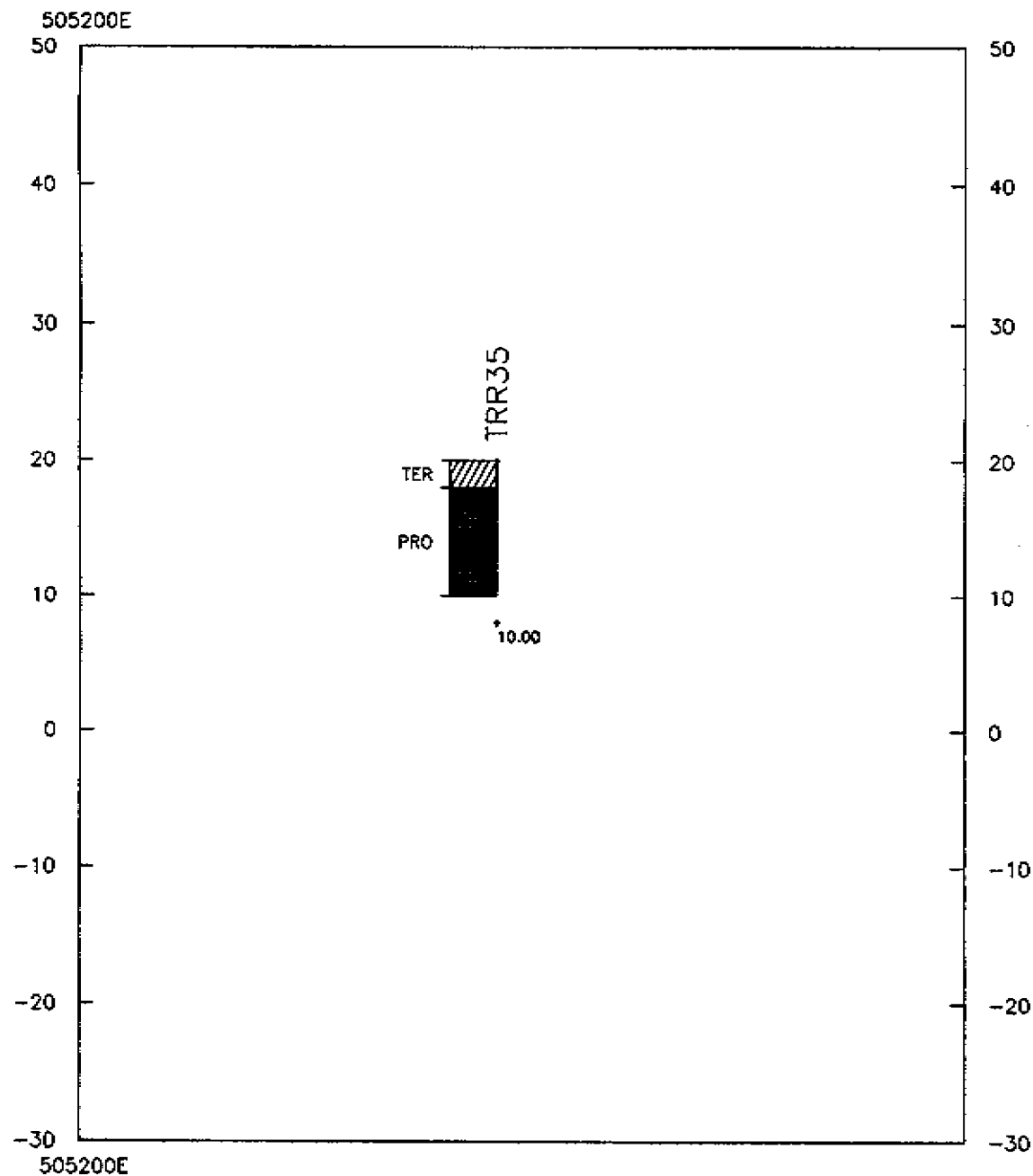


LEGEND

GEOLOGY

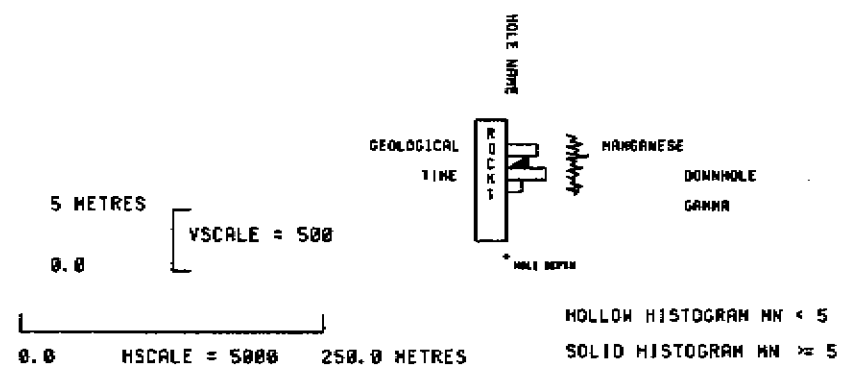


BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR34		
PREPARED BY: J. HARRISON	DATE: 22-MAR-94	CENTRE: MANTHAN
DESIGNED BY: J. HARRISON	REVISED BY:	
CHECKED BY:	DESIGNED BY:	

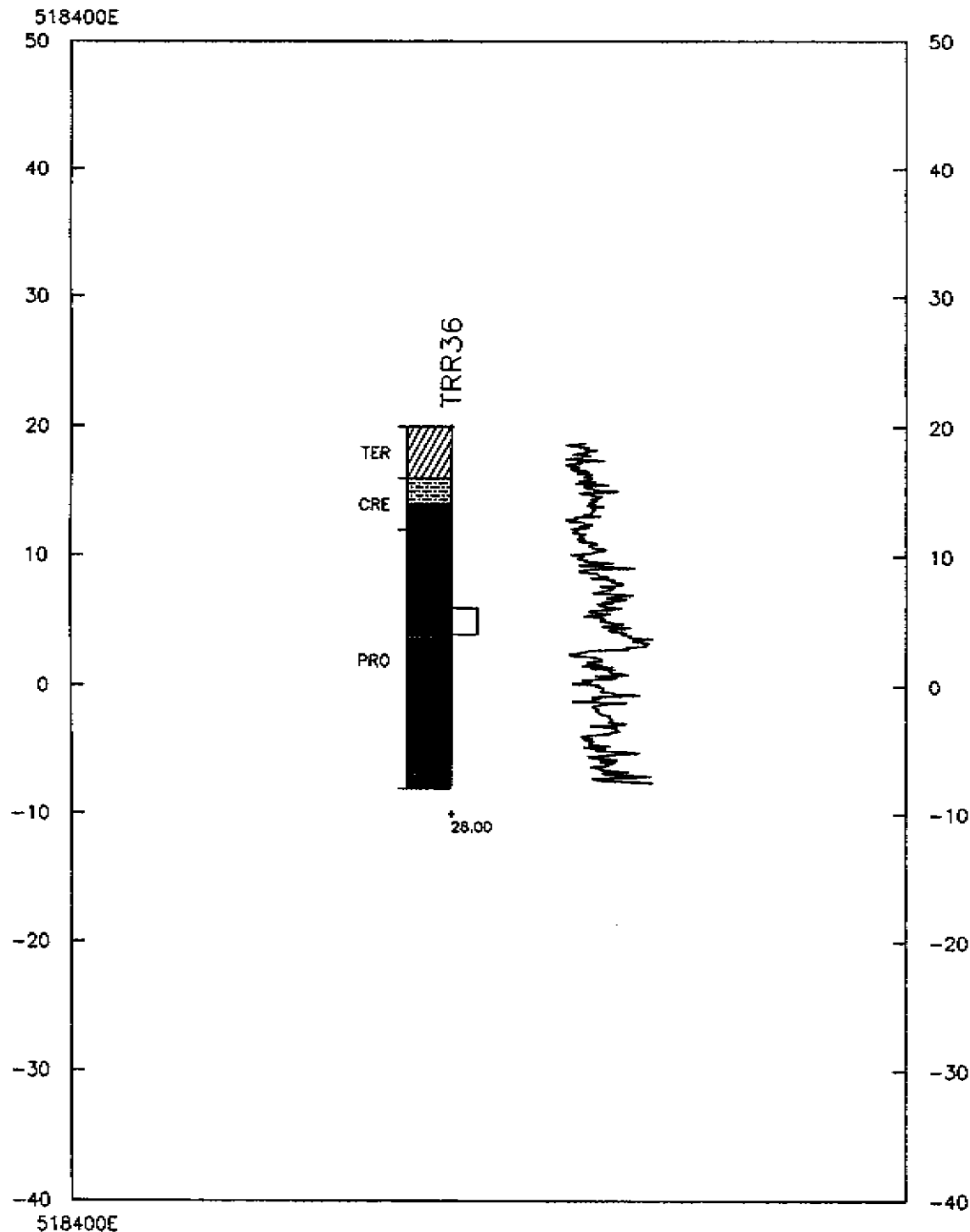


LEGEND

GEOLOGY

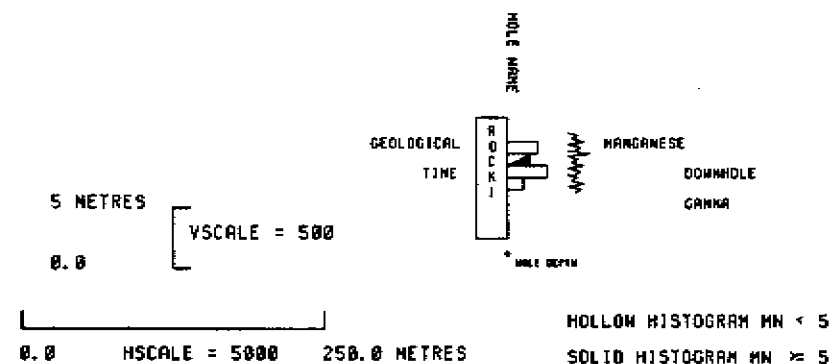


BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR35		
PREPARED BY: H. HARRISON	DATE: 22-MAR-94	CHECKED BY: HARRISON
DRAWN BY: H. HARRISON	REVISED BY:	
CHECKED BY:	REVISION NO.:	

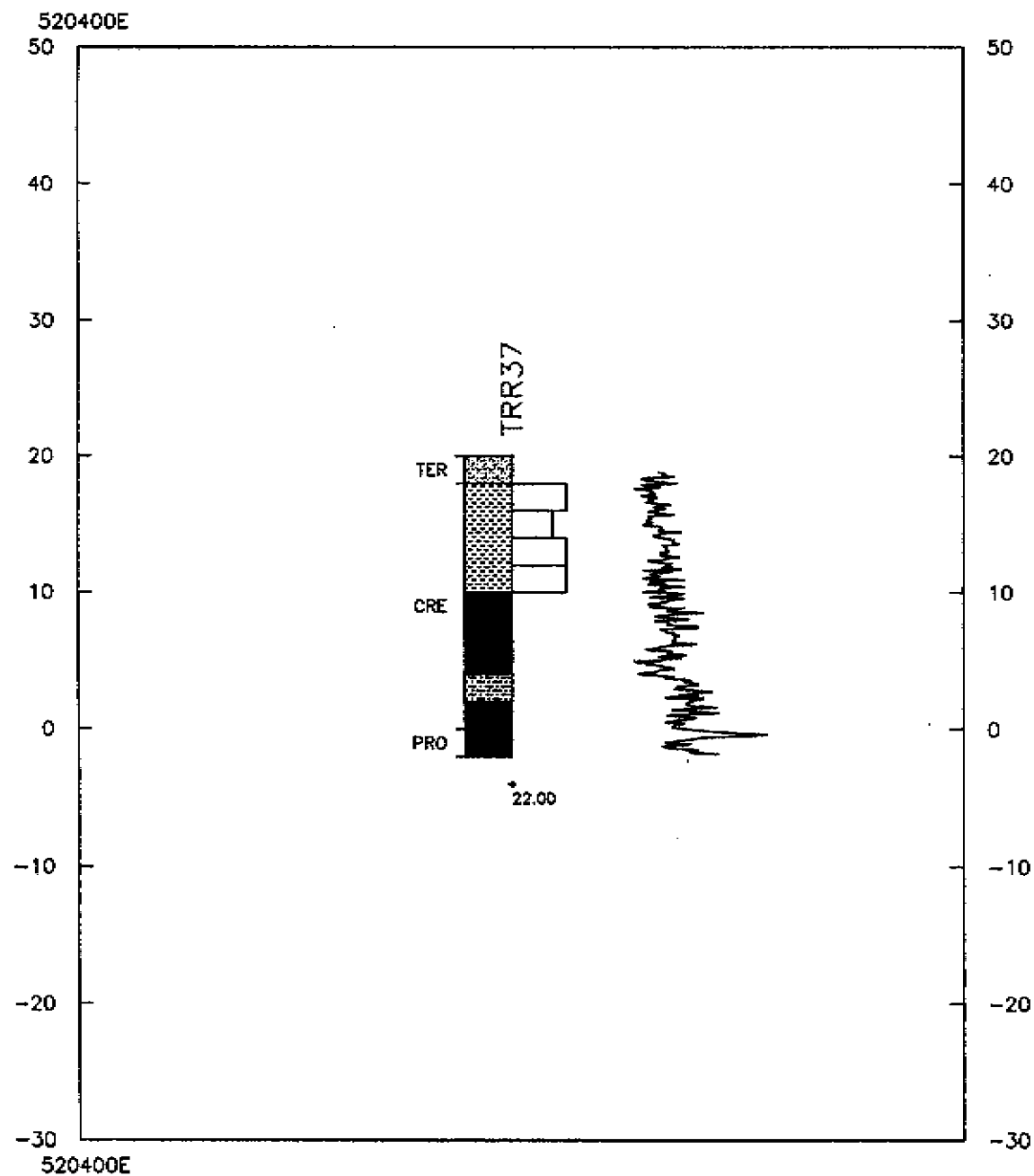


LEGEND

GEOLOGY

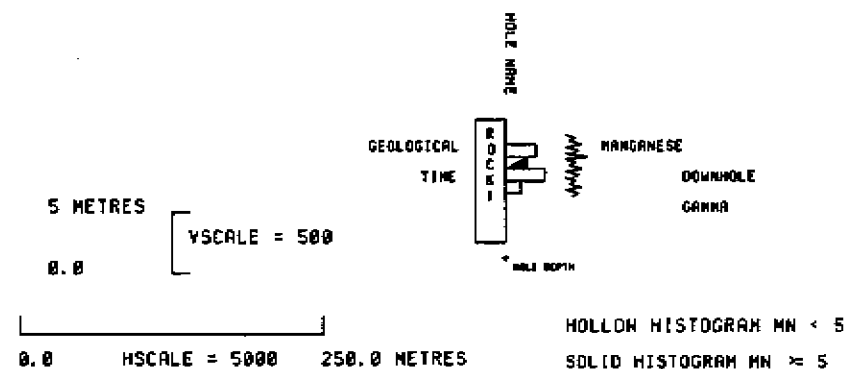
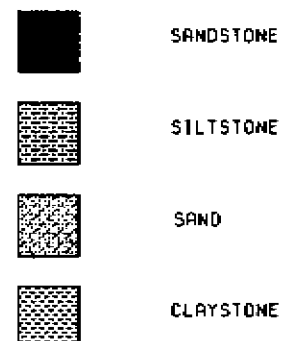


BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR36		
PREPARED BY: ALBERTSON	DRAWN BY: J. HODGSON	CHECKED BY: J. HODGSON
DATE: 22-08-94	REVISION: 1	



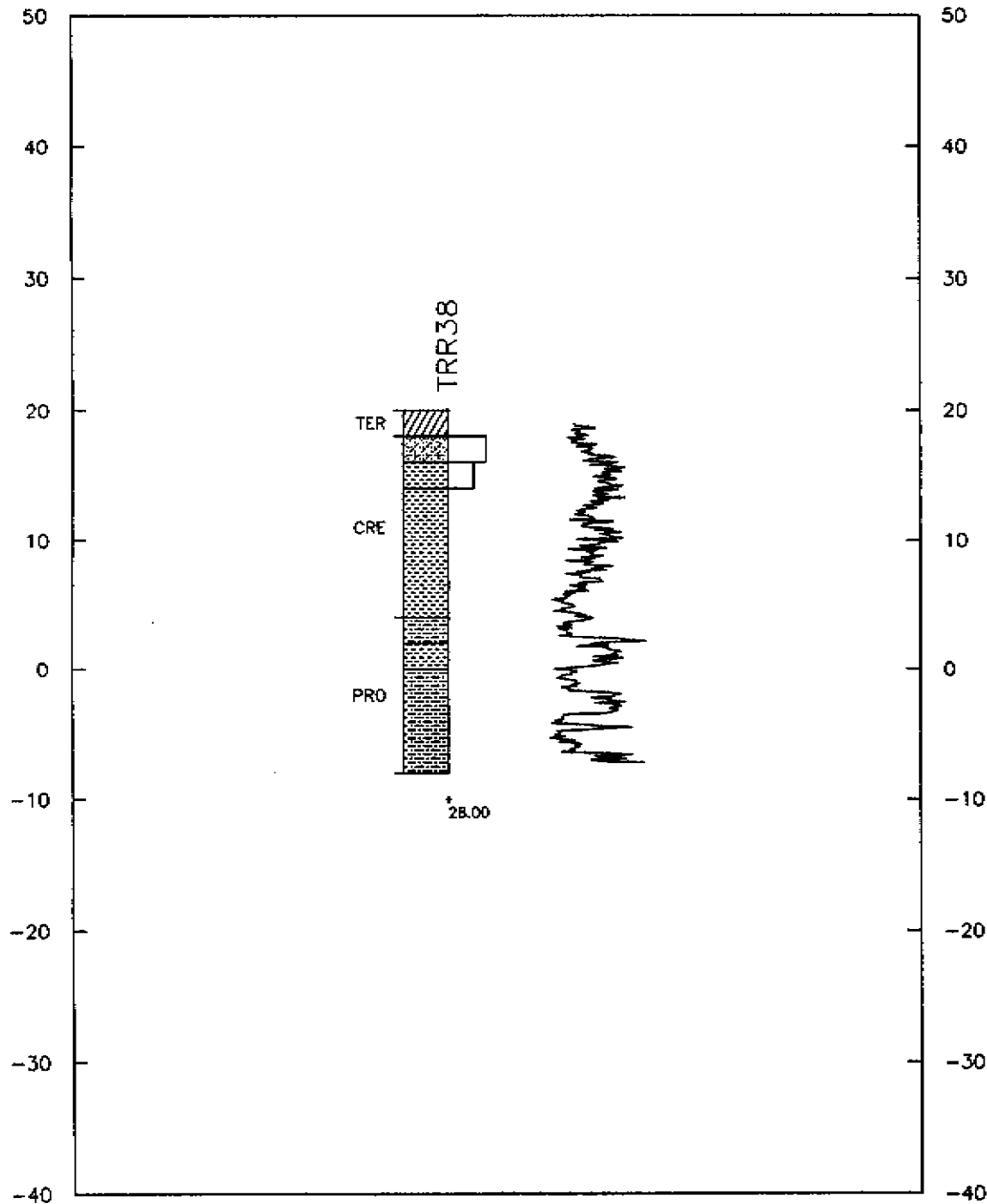
LEGEND

GEOLOGY



BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR37		
PREPARED BY: ALAN BROWN	DATE: 22-NOV-94	CHECKED BY: MONTY BROWN
DRAWN BY: A. BROWN	REVISED BY:	
CHECKED BY:	APPROVED BY:	

522850E



522850E

LEGEND

GEOLOGY



SOIL



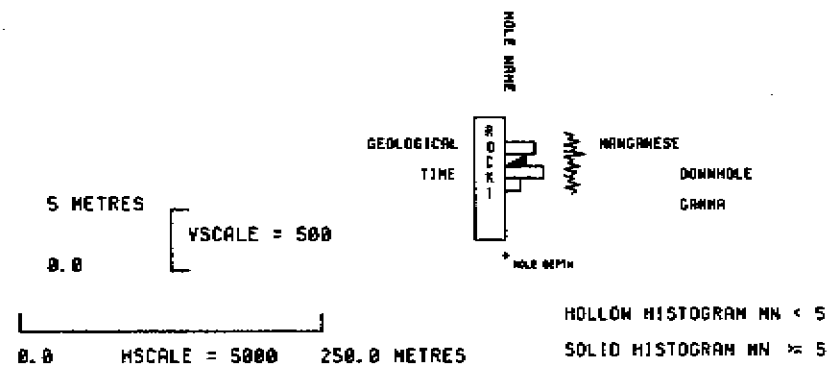
SILTSTONE



SAND

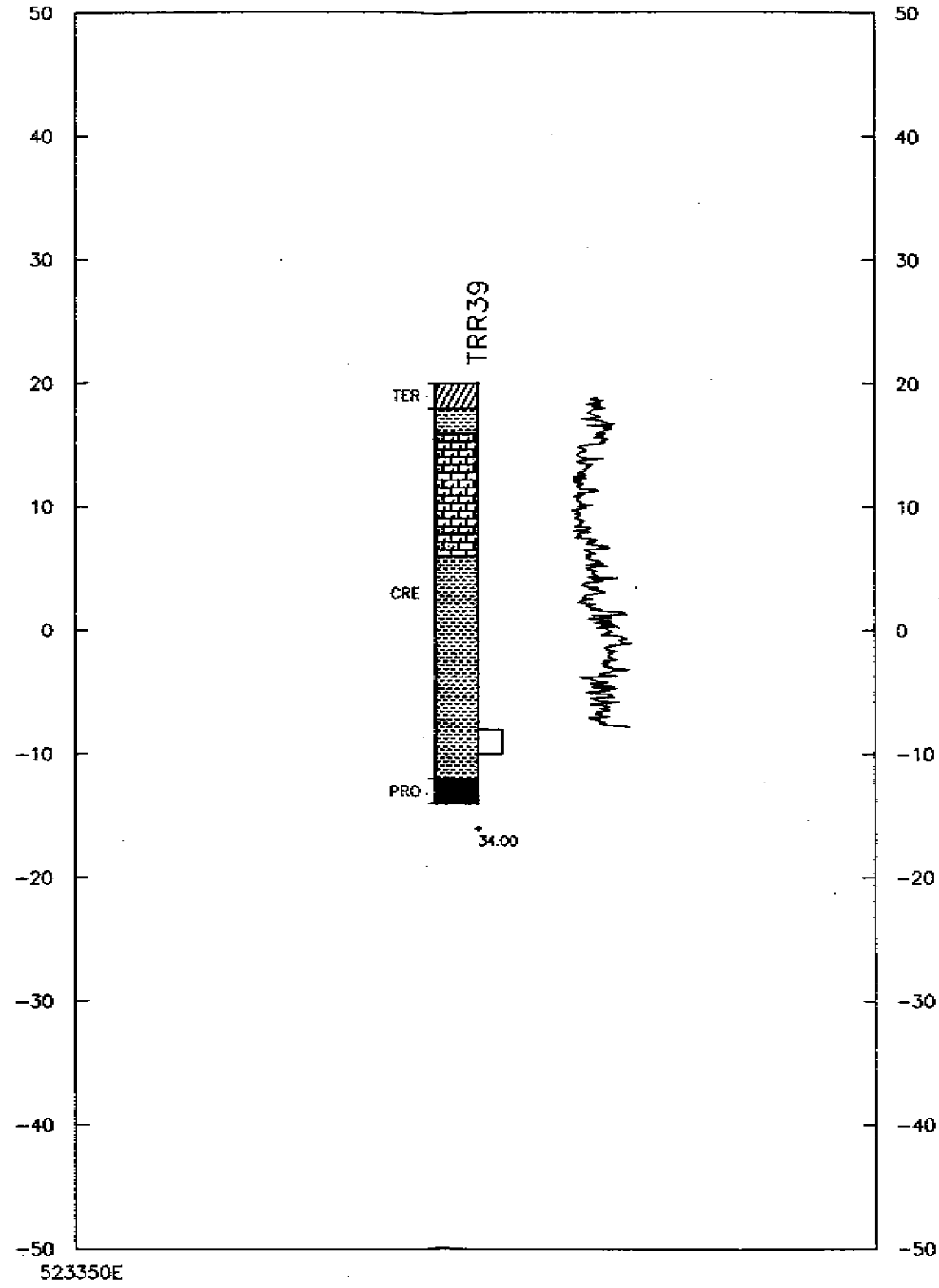


CLAY/CLAYSTONE



BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993 CARPENTARIA NANGWESE PROGRAM DRILLHOLE TRR38		
PREPARED BY: M. J. 1001000	DATE: 22-08-95	CENTRE: MURTHA
DRAWN BY: M. J. 1001000	REVIEW:	
CHECKED BY:	APPROVED BY:	

523350E

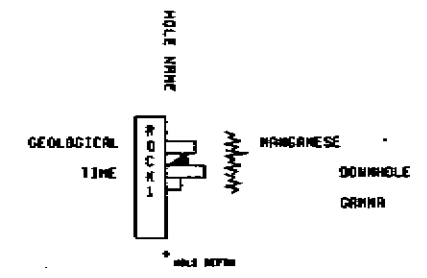


LEGEND

GEOLOGY

-  SOIL
-  SANDSTONE
-  CARBONACEOUS
-  CLAY

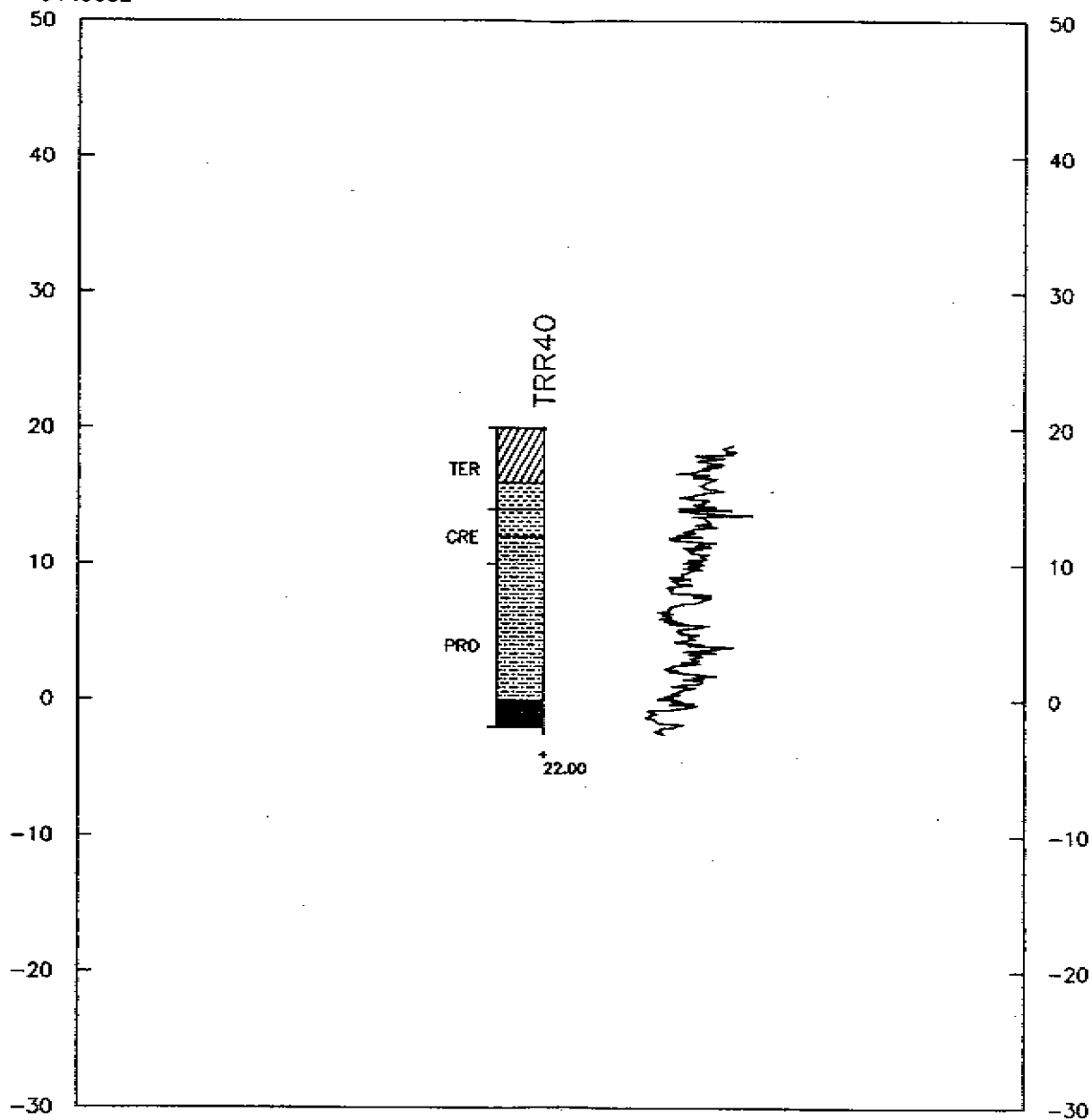
5 METRES
0.0
HSCALE = 5000
250.0 METRES



HOLLOW HISTOGRAM MN < 5
SOLID HISTOGRAM MN ≥ 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR39		
PREPARED BY: A. HOBBS	DATE: 22-08-94	CHECKED BY: M. HOBBS
DESIGNED BY: A. HOBBS	REVIEWED BY:	
DRAWN BY:	REVIEWED BY:	

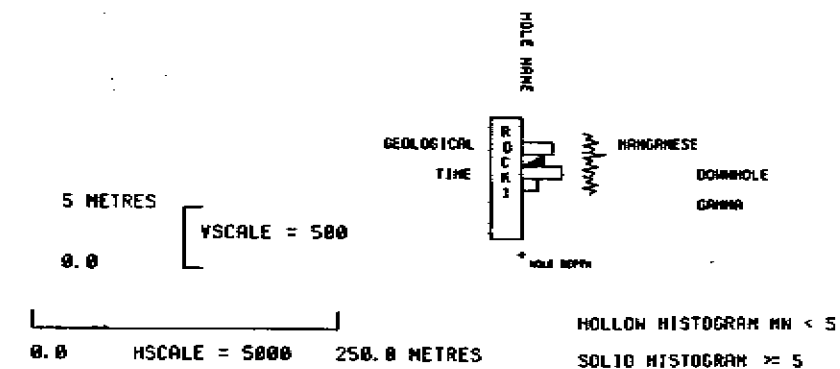
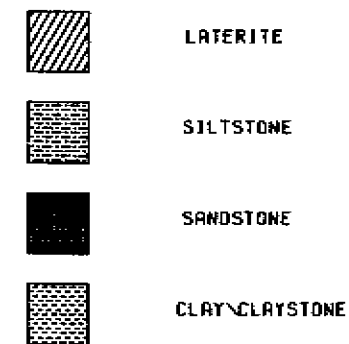
8340702N
514300E



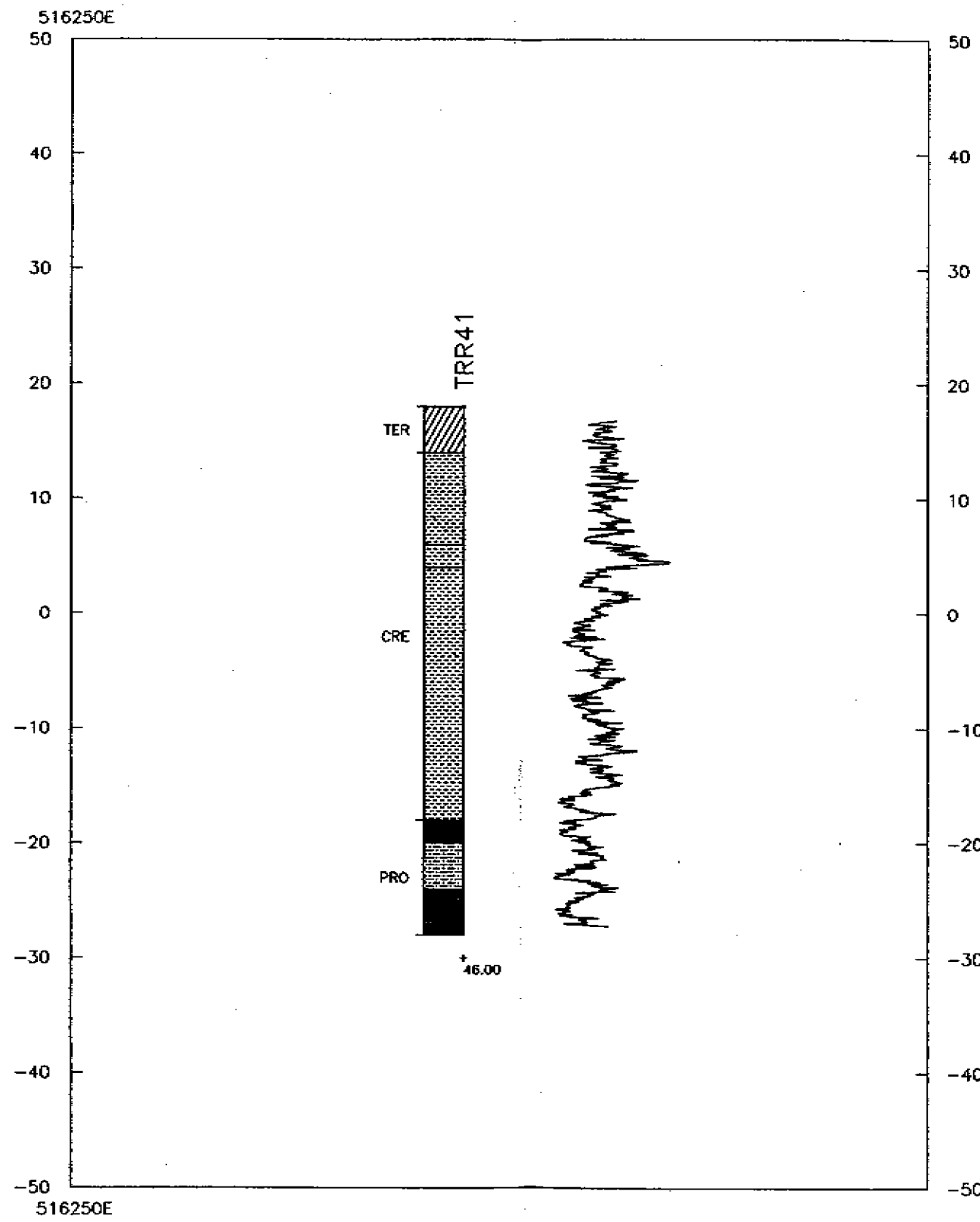
514300E
8340702N

LEGEND

GEOLOGY

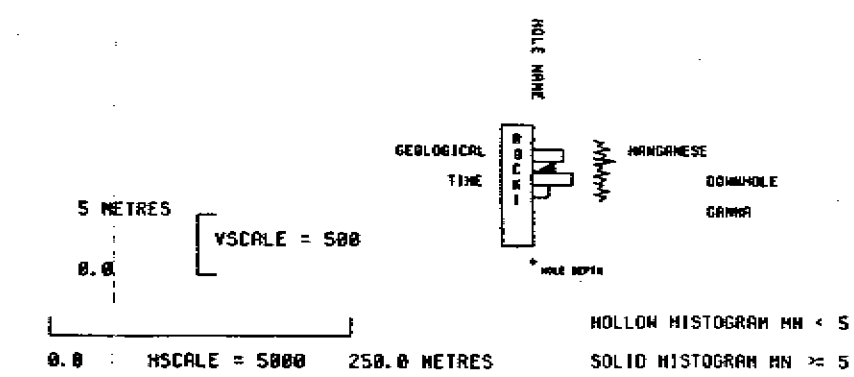
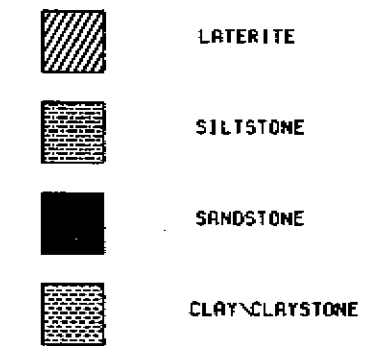


BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1983		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR40		
PREPARED BY: M. HARRIS	DATE: 22-MAR-84	ENGINE: HARRIS
DRAWN BY: M. HARRIS	CHECKED:	
CHECKED:	DRAWING NO.:	



LEGEND

GEOLOGY



BHP MINERALS PTY. LTD.		
NORTHERN RIVER BRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR41		
PREPARED BY: J. GORDON	DATE: 20-08-93	CHECKED BY: J. GORDON
DRAWN BY: J. GORDON	REVISED BY:	
CHECKED BY:	DRAWING NO.:	

518050E

50

40

30

20

10

0

-10

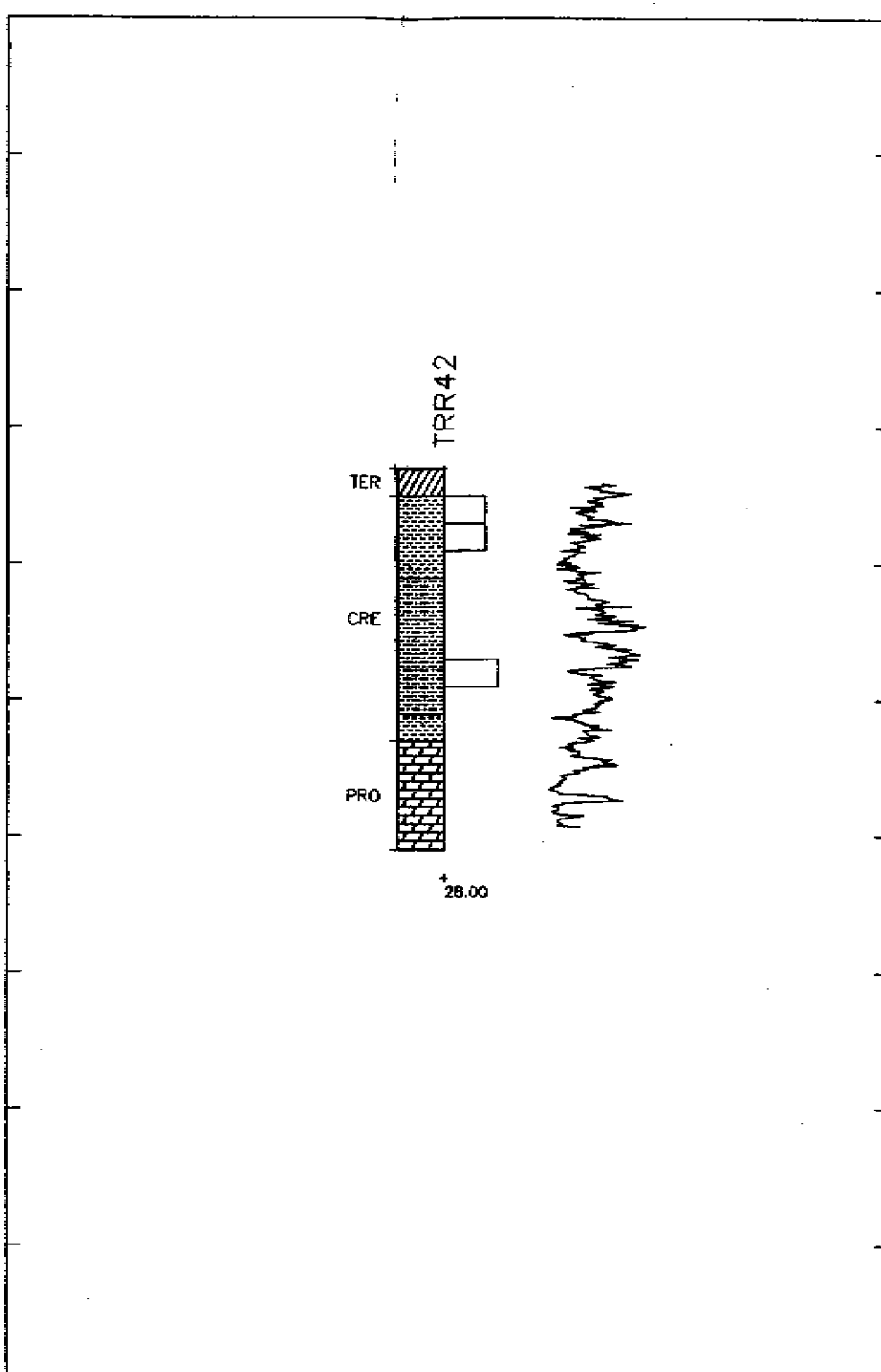
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-30

-40

-50

518050E



LEGEND

GEOLOGY

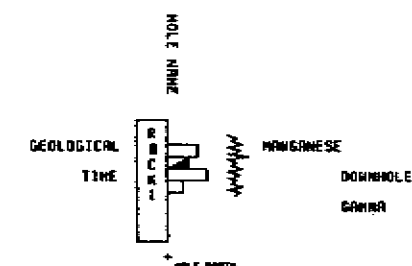
- LATERITE
- SILTSTONE
- DOLomite
- CLAYSTONE

5 METRES

0.0

VSCALE = 500

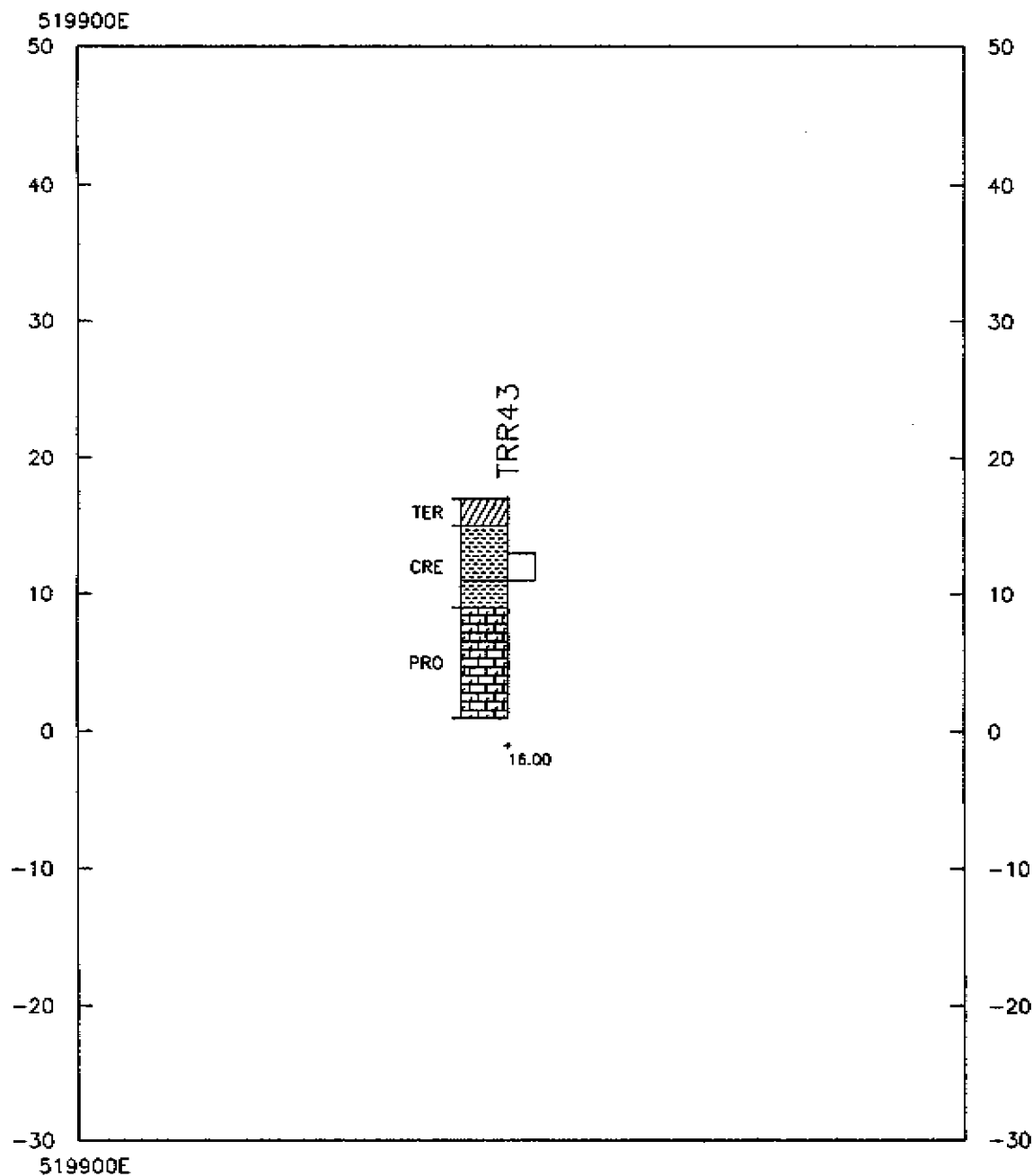
0.0 HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MM < 5

SOLID HISTOGRAM MM > 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR42		
PREPARED BY: H. WILKINSON	DATE: 28-08-94	CHECKED BY: H. WILKINSON
DRAWN BY: H. WILKINSON	REVISED BY:	
CHECKED BY:	DRILLING NO.:	



LEGEND

GEOLOGY



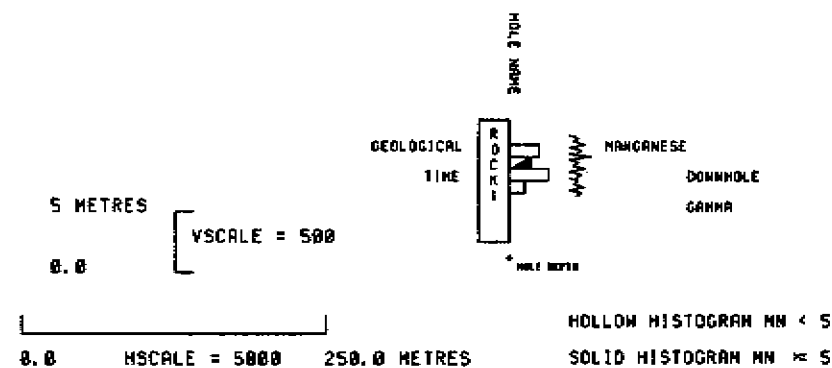
LATERITE



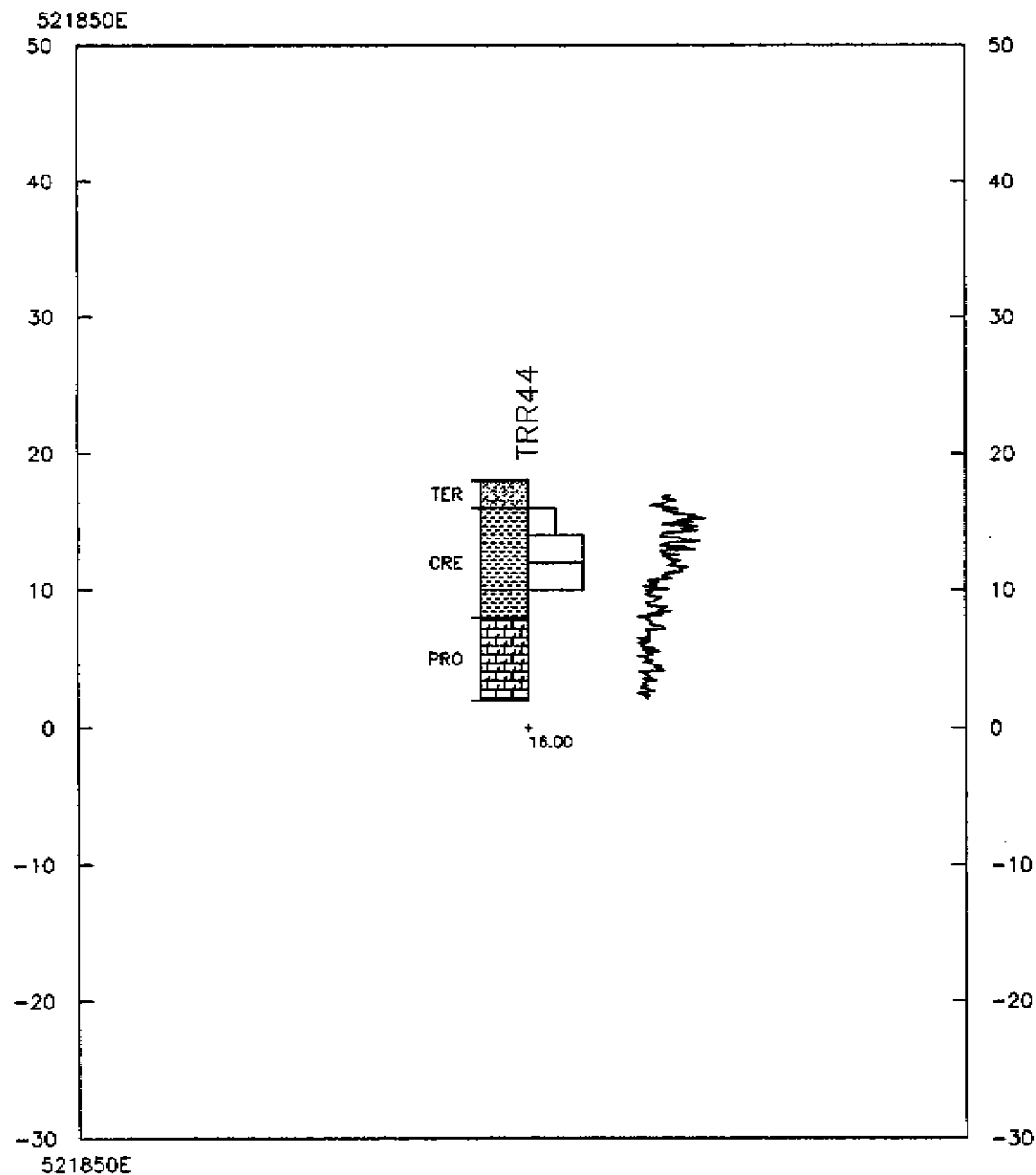
CARBONACEOUS



CLAY/CLAYSTONE

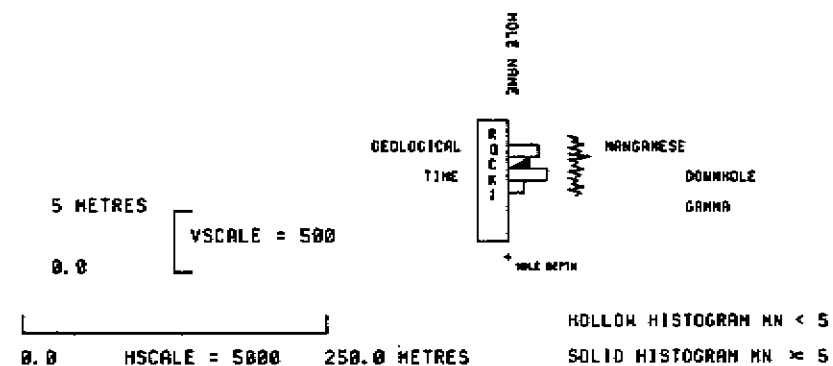
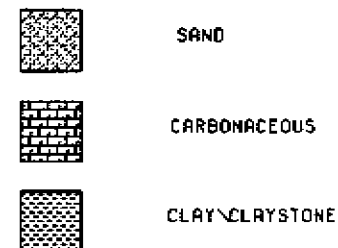


BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1999		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR43		
PREPARED BY: AL. HALLIDAY	DATE: 20-MAR-04	CHECKED BY: HALLIDAY
DRAWN BY: AL. HALLIDAY	REVIEWED BY:	
CHECKED BY:	DRAWING NO.:	



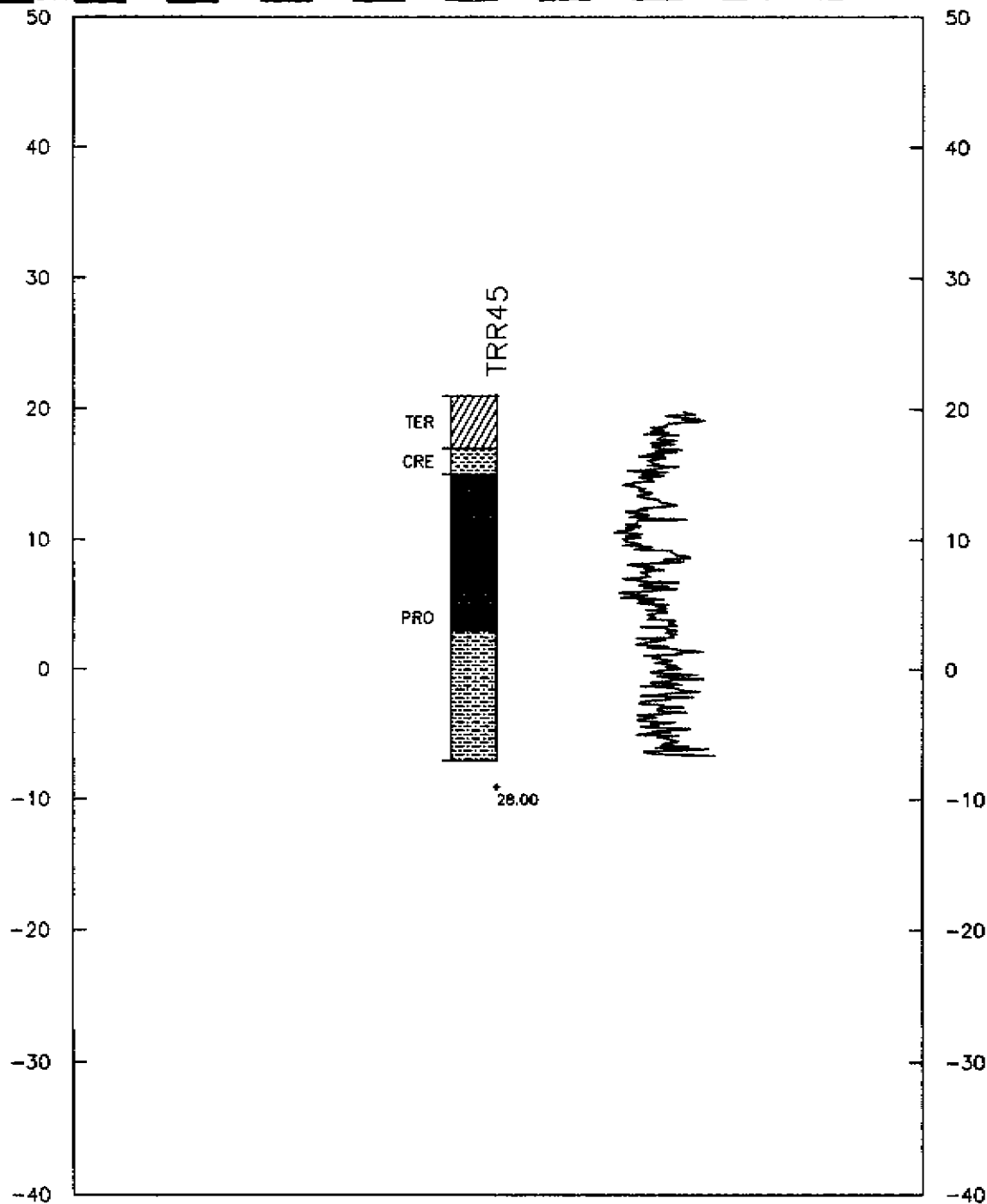
LEGEND

GEOLOGY



BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR44		
PREPARED BY: N. 00016500	DATE: 23-MAR-94	GENERIC: solid rock
DRAWN BY: N. 00016500	REVISED:	
CHECKED:	SUPERVISOR:	

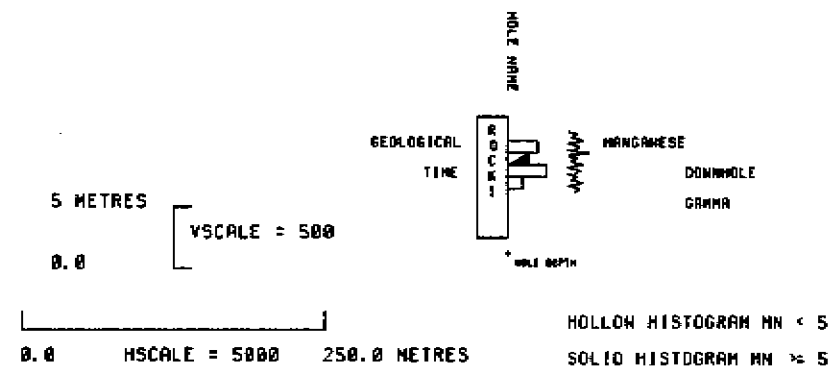
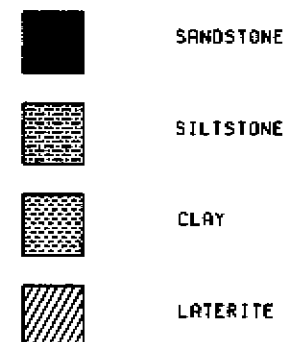
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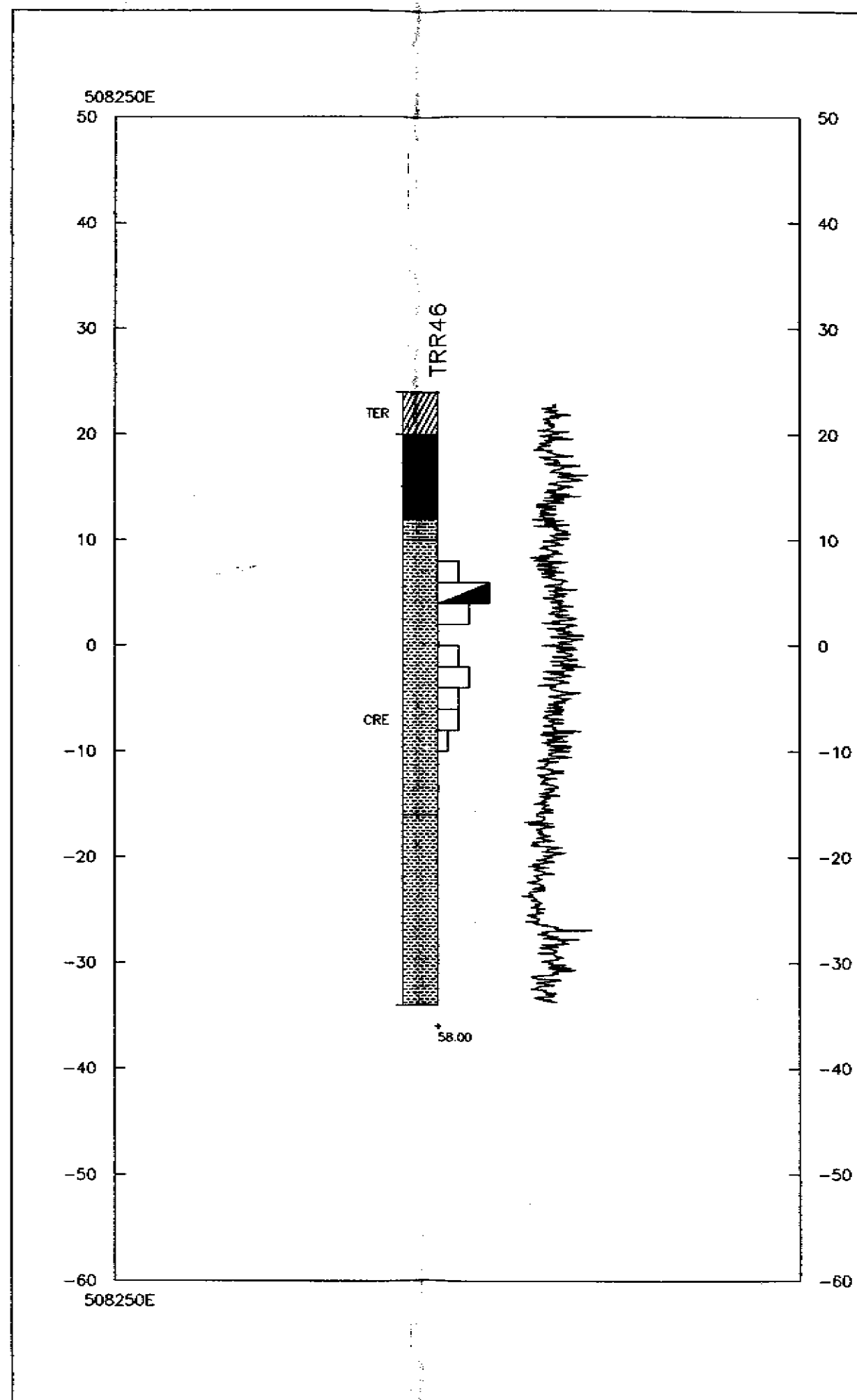
511450E

LEGEND

GEOLOGY

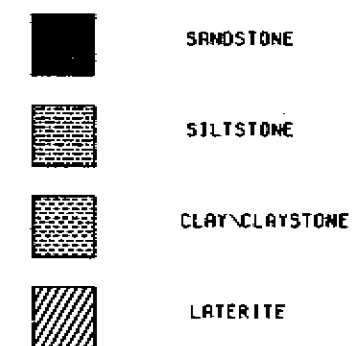


BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TMR45		
PREPARED BY: N. ANDERSON	DATE: 21-MAR-93	CHECKED: M. HARRISON
APPROVED BY: M. HARRISON	REVISED:	
OWNER: MACHINING INC.		



LEGEND

GEOLOGY



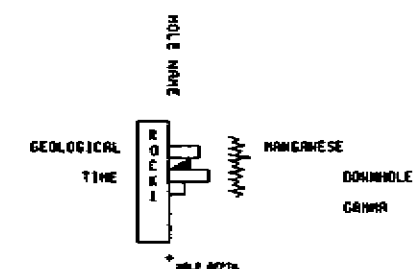
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YSCALE = 500

0.0

HSCALE = 5000 250.0 METRES

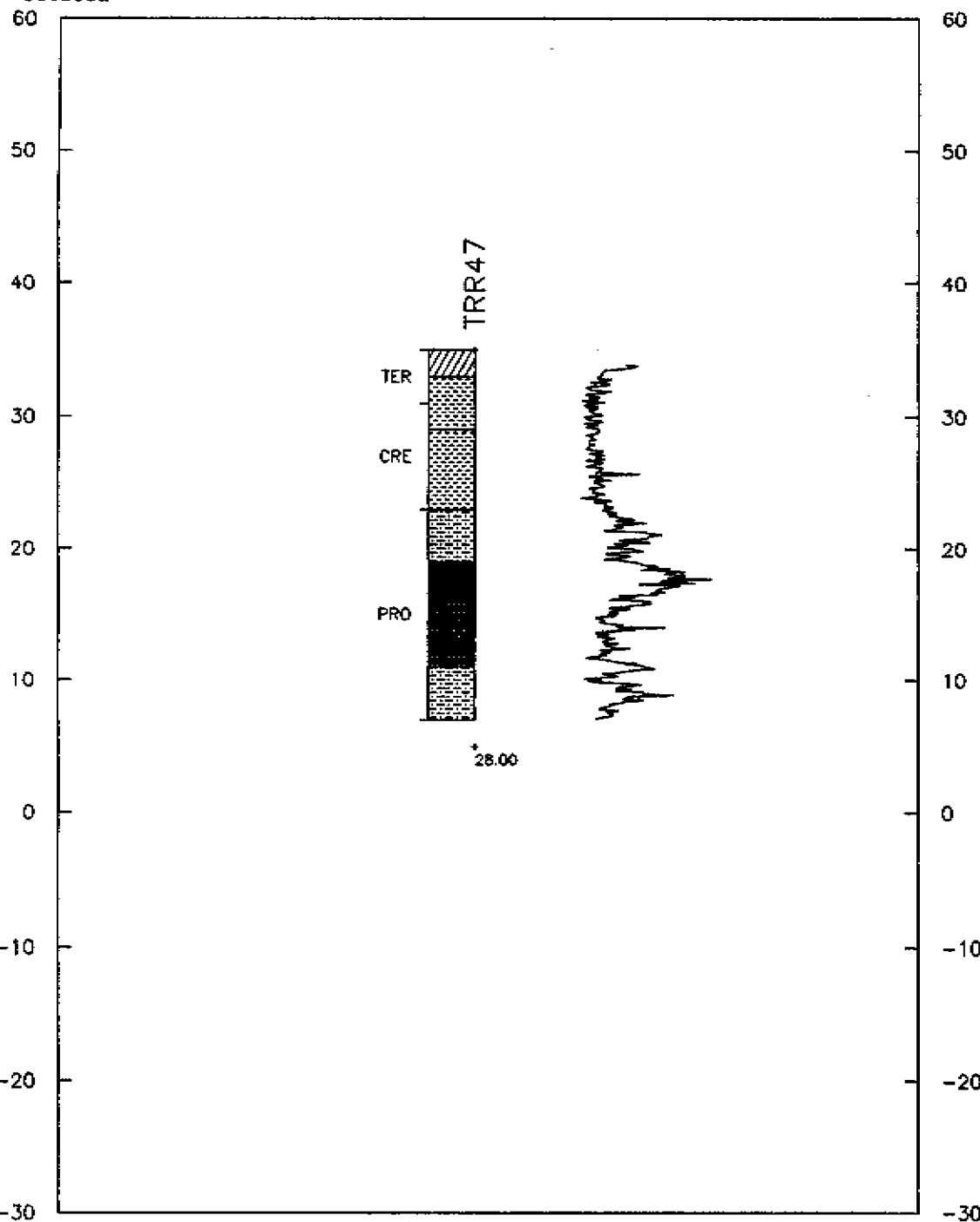


HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN > 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA HANGAROSE PROGRAM		
DRILLHOLE TRR46		
PREPARED- J. HARRISON	DATE- 23-MAR-94	CHECKED- J. HARRISON
DRAWN- J. HARRISON	REVISED-	
CHECKED-	APPROVED BY-	

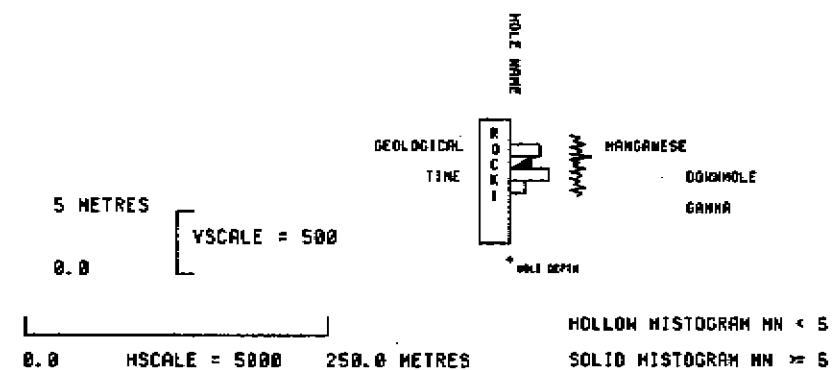
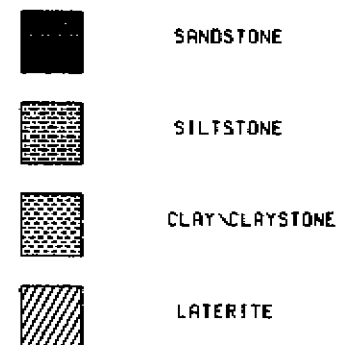
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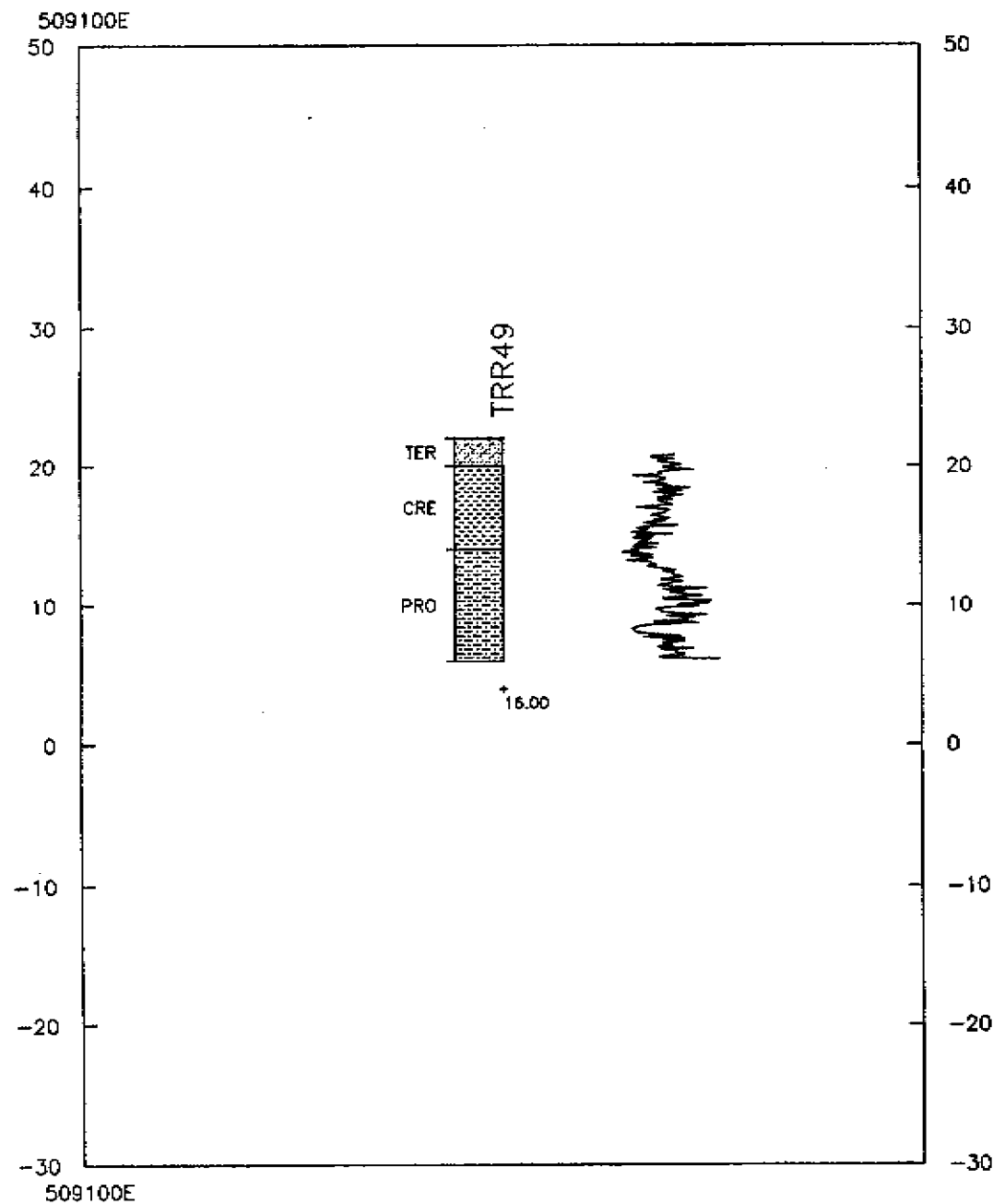
506550E

LEGEND

GEOLOGY



BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR47		
PREPARED BY: J. HARRISON	DATE: 23-06-94	CHECKED BY: J. HARRISON
REVIEWED BY: J. HARRISON	REVISION: 1	
CHECKED BY: J. HARRISON	APPROVED BY: J. HARRISON	



LEGEND

GEOLOGY



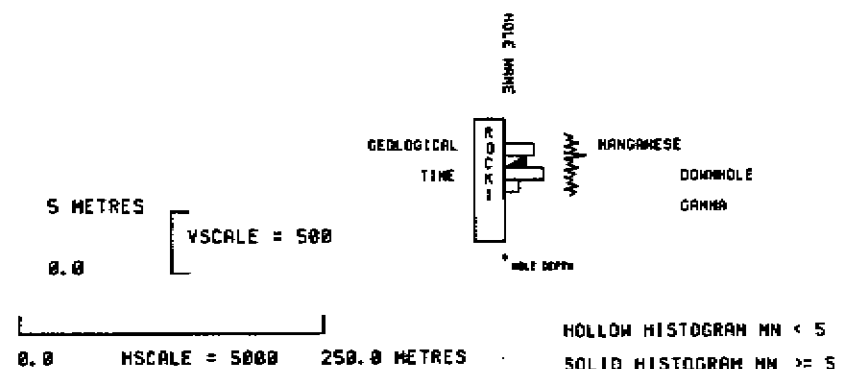
SAND



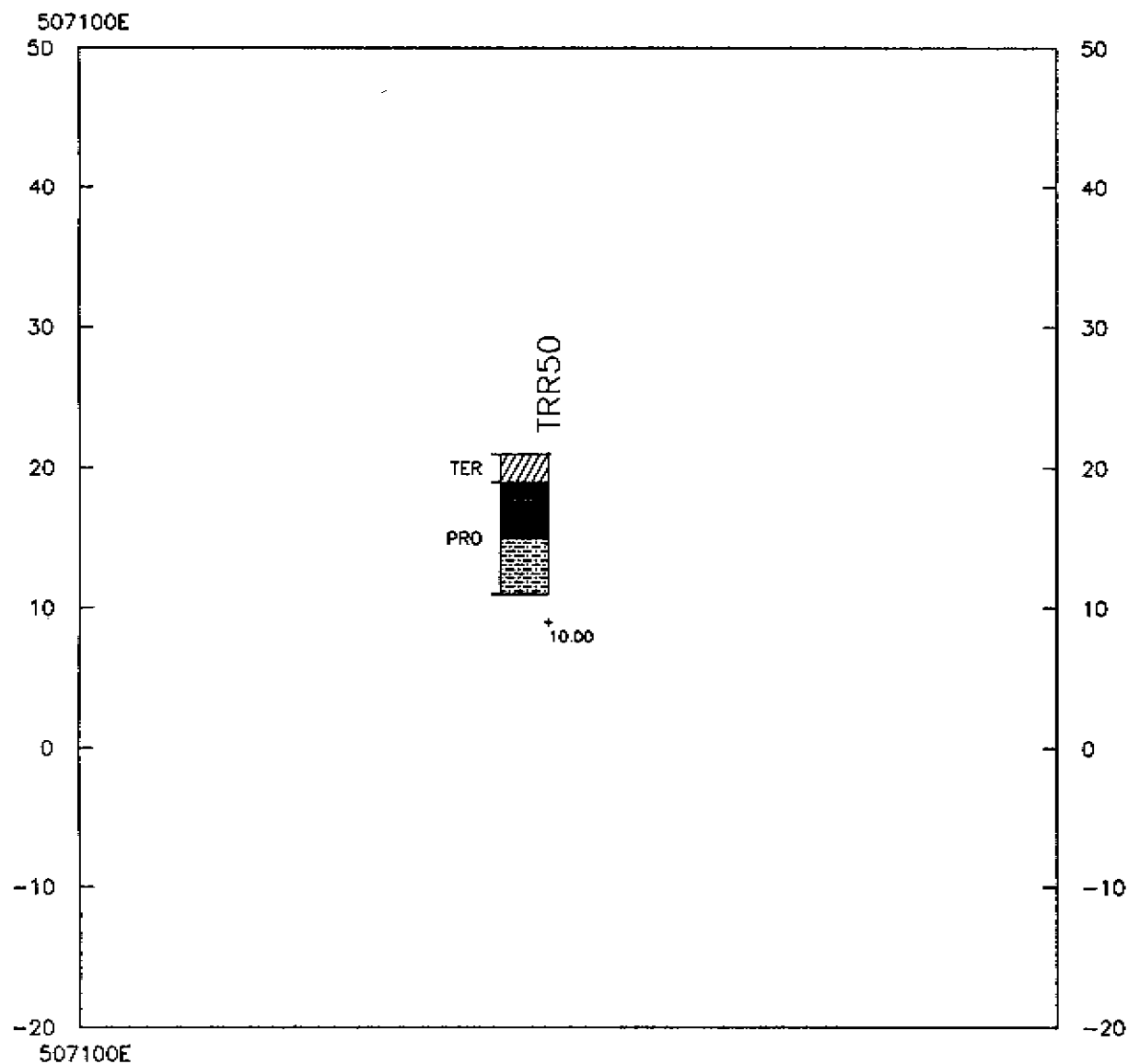
SILTSTONE



CLAYSTONE



BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1989		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR49		
PREPARED BY: N. HARRISON	DATE: 29-08-91	CHECKED BY: MATHIAS
REVIEWED BY: N. HARRISON	REVIEWED:	
CHECKED:	DRAWING NO.:	



LEGEND

GEOLOGY



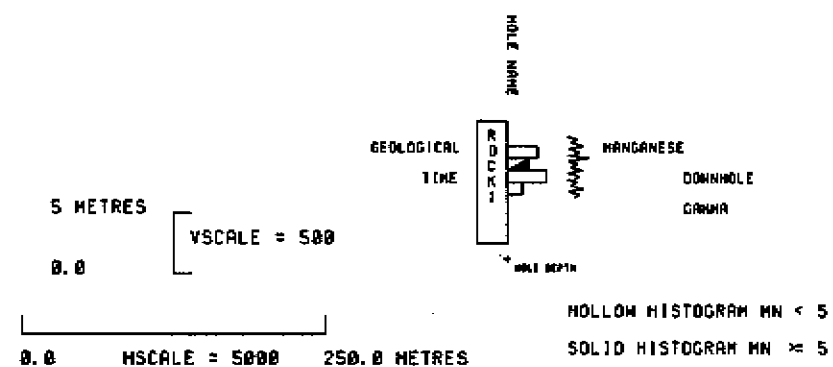
LATERITE



SILTSTONE



SANDSTONE



BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1999		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR50		
PREPARED BY: A. HARTMAN	DATE: 23-08-94	CENTRE: MANTHAN
DRAWN BY: A. HARTMAN	KEYWORD:	
CHECKED BY:	MANAGED BY:	

512350E
50

40
30
20
10
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-10
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512350E

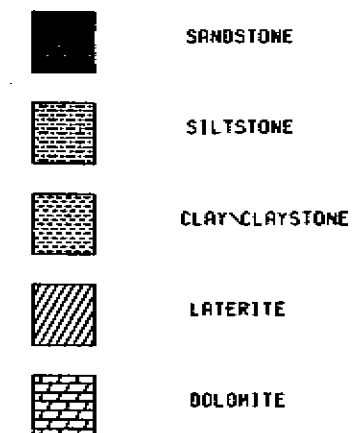
TRR48
TER
CRE
PRO
+ 48.00



50
40
30
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10
0
-10
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-50

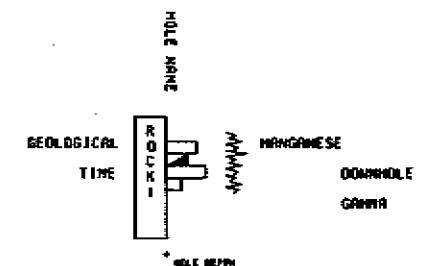
LEGEND

GEOLOGY



5 METRES
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VSCALE = 500

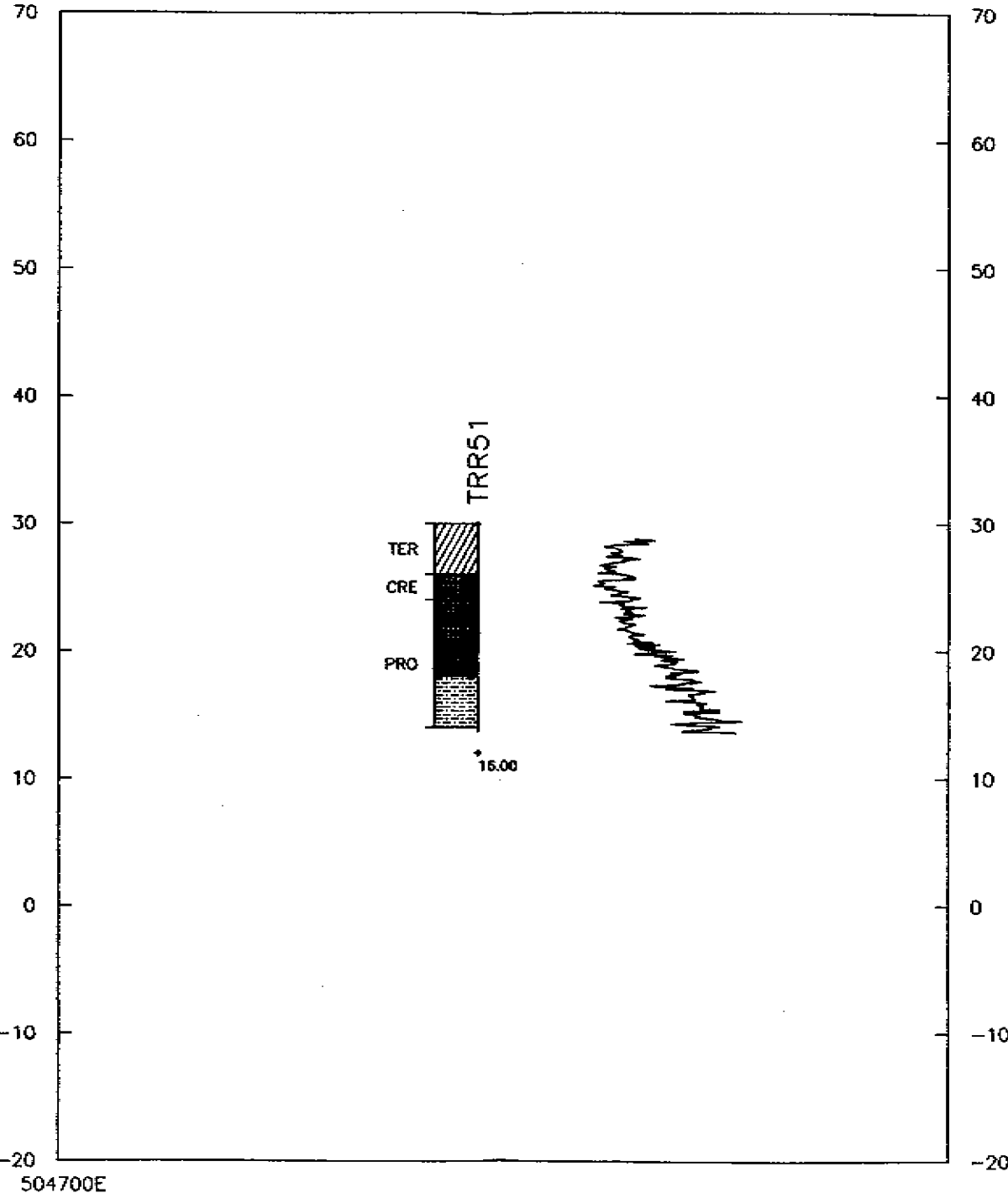
0.0 HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MN < 5
SOLID HISTOGRAM MN >= 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR48		
PREPARED BY: M. WILSON	DATE: 29-10-94	CONT'D: nil/ndm
DRAWN BY: M. WILSON	REVISED:	
CHECKED BY:	APPROVED BY:	

504700E
70



LEGEND

GEOLOGY



5 METRES

0.0

VSACLE = 500

0.0

HSCALE = 5000 250.0 METRES

GEOLOGICAL
TIME

MOLE DEPTH

MANGANESE
DOWNHOLE
GRAIN

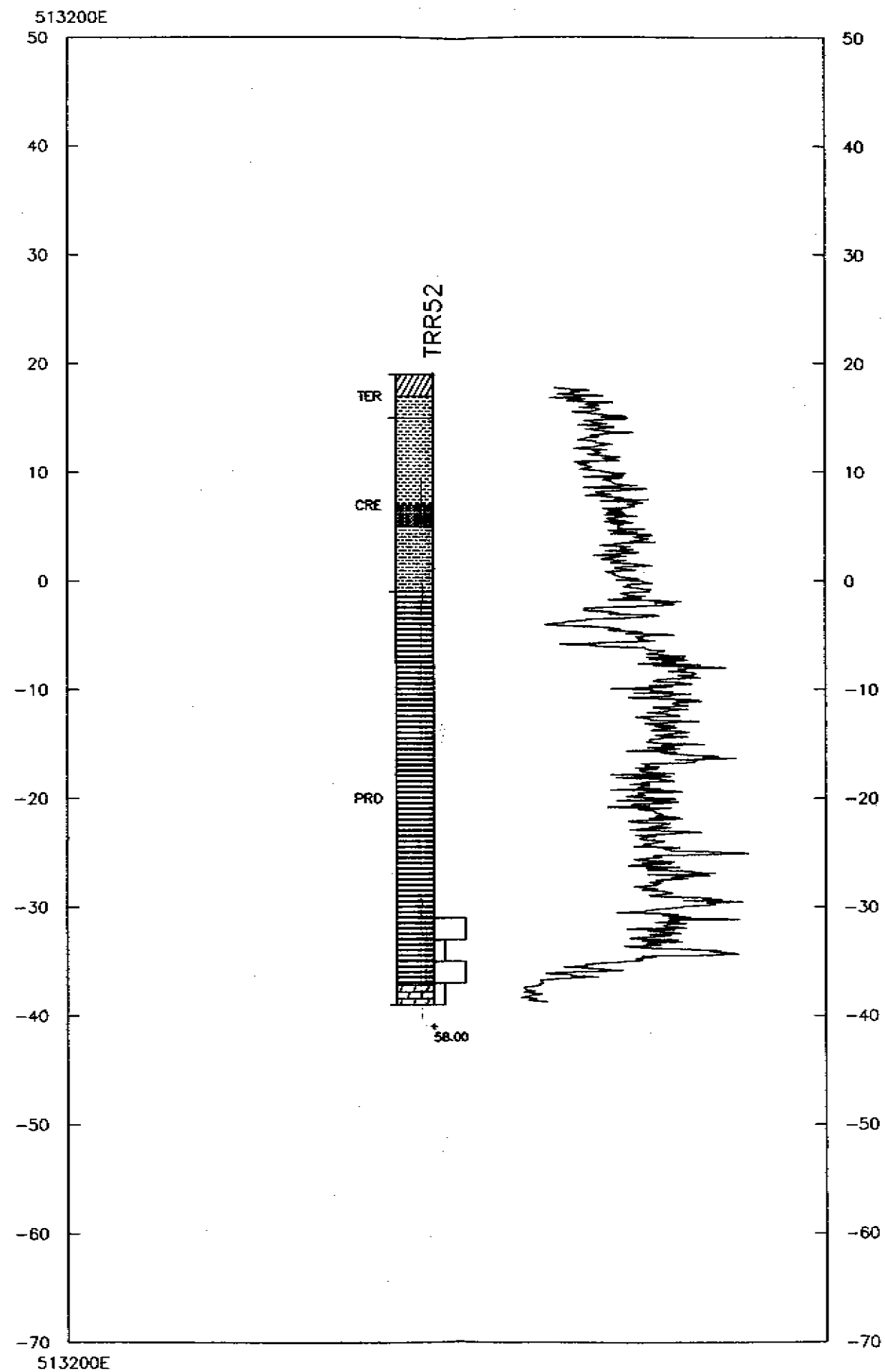
HOLLOW HISTOGRAM MM < 1

SOLID HISTOGRAM MM < 1

BHP MINERALS PTY.LTD.

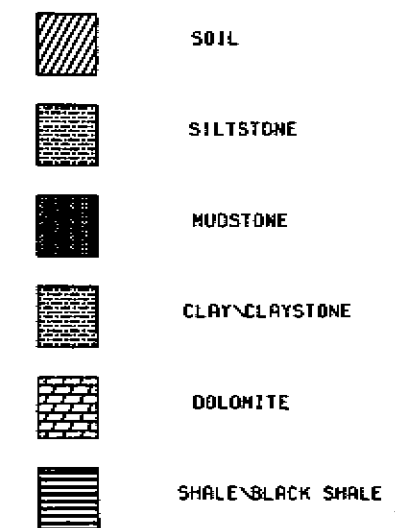
MCARTHUR RIVER DRILLING 1993
CARPENTARIA MANGANESE PROGRAM
DRILLHOLE TRR51

PREPARED - A. HINDS	DATE - 21-08-93	CHECKED - A. HINDS
DRAWN - A. HINDS	REVISED -	
CHECKED -	REVIEWED -	



LEGEND

GEOLOGY



5 METRES

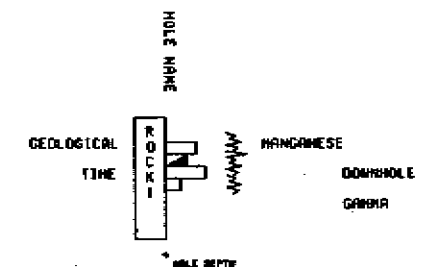
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YSCALE = 500

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HSCALE = 5000

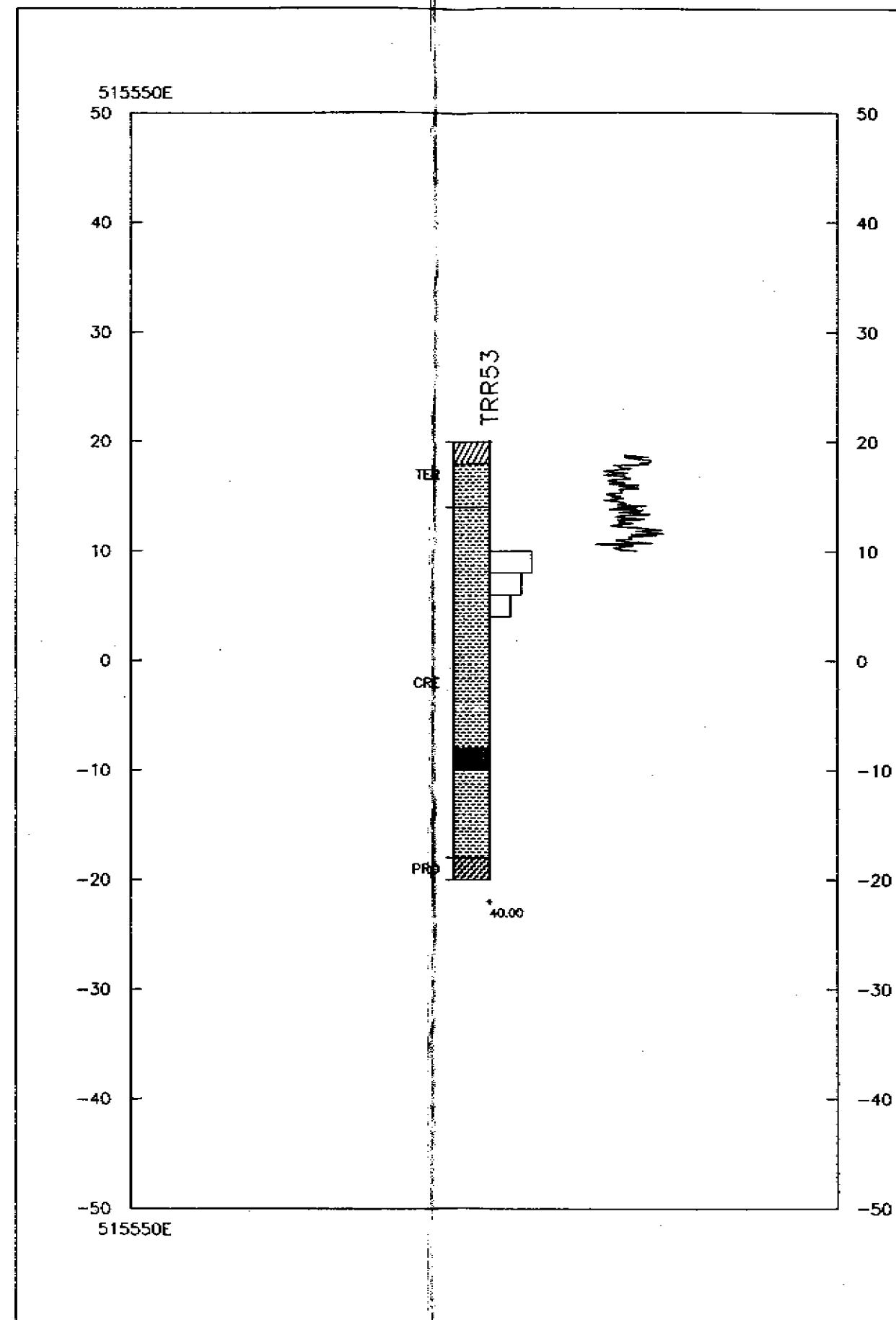
250.0 METRES



HOLLOW HISTOGRAM MN < 5

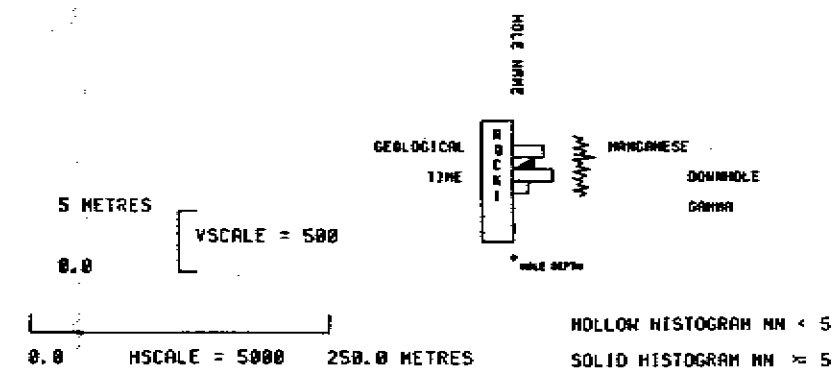
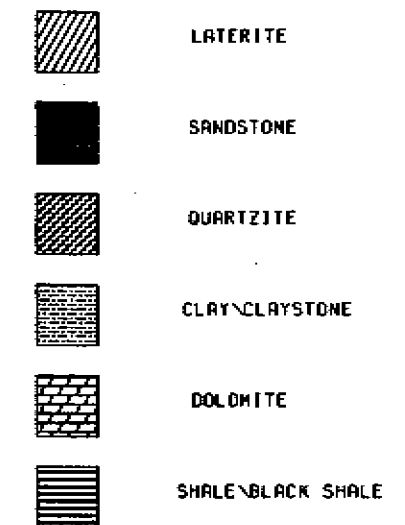
SOLID HISTOGRAM MN >= 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR52		
PREPARED BY: M. HARRISON	DATE: 20-08-94	CHECKED BY: M. HARRISON
DRAWN BY: M. HARRISON	REVISED:	
CHECKED:	REVIEWED BY:	

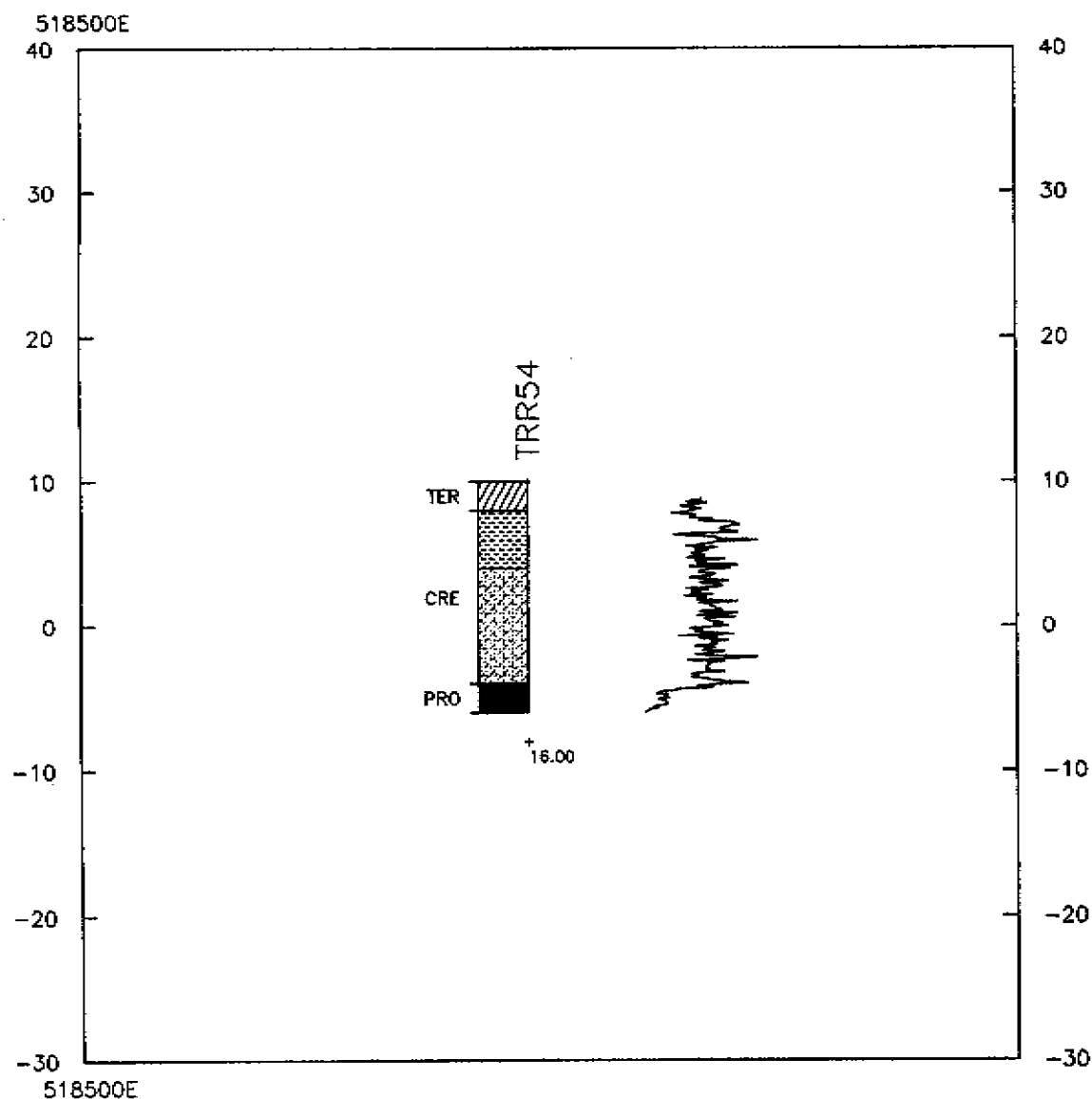


LEGEND

GEOLOGY



BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR53		
PREPARED BY: H. WOODWARD	DATE: 23-04-94	CHECKED BY: H. WOODWARD
DRAWN BY: H. WOODWARD	REVISED BY:	
CHECKED BY:	DRILLING NO.:	



LEGEND

GEOLOGY



LATERITE



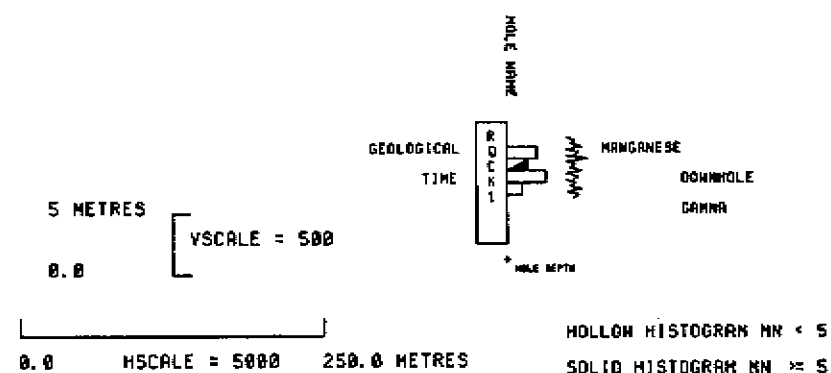
SANDSTONE



SAND



CLAY



BHP MINERALS PTY. LTD.

MCARTHUR RIVER DRILLING 1983
CARPENTARIA MANGANESE PROGRAM
DRILLHOLE TRR54

PREPARED BY: A. J. JONES	DATE: 21-08-84	CHECKED BY: J. JONES
REVIEWED BY: A. J. JONES	REVIEWED BY: J. JONES	
CHECKED BY: J. JONES	REVIEWED BY: J. JONES	

519850E

40

30

20

10

0

-10

-20

-30

-40

-50

-60

-70

519850E

TRR55

TER

CRE

52.00

40

30

20

10

0

-10

-20

-30

-40

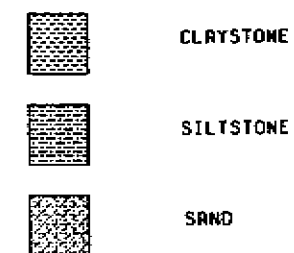
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-60

-70

LEGEND

GEOLOGY



5 METRES

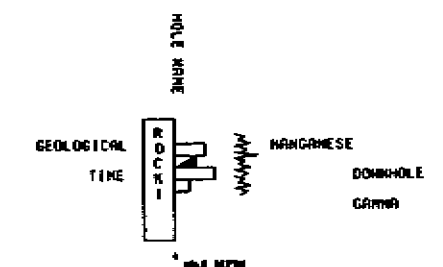
0.0

VSCALE = 500

0.0

HSCALE = 5000

250.0 METRES



HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN > 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA HANGANESE PROGRAM		
DRILLHOLE TRR55		
PREPARED BY: L. HARRISON	DATE: 28-04-94	CHECKED BY: J. HARRISON
DESIGNED BY: L. HARRISON	REVISED BY: J. HARRISON	
CHECKED BY: J. HARRISON	APPROVED BY: J. HARRISON	

519100E

50

40

30

20

10

0

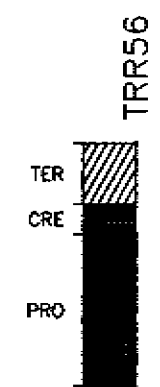
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-20

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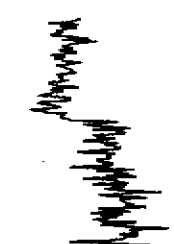
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519100E



TRR56

15.00



LEGEND

GEOLOGY

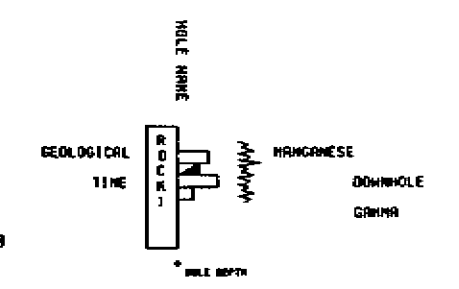


5 METRES

0.0

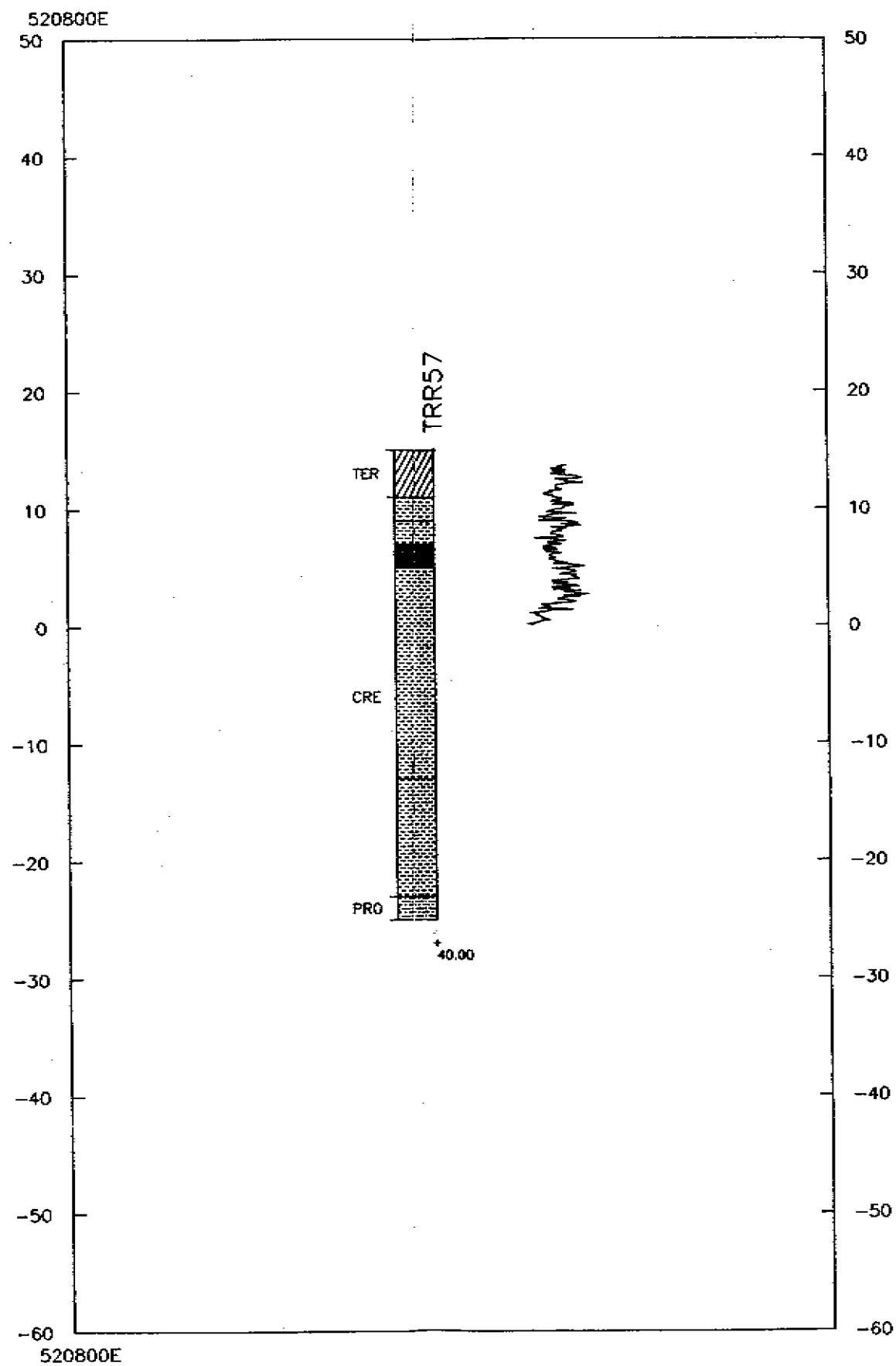
VSCALE = 500

HSCALE = 5000 250.0 METRES



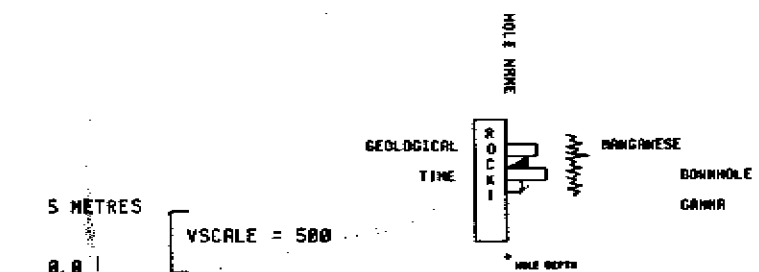
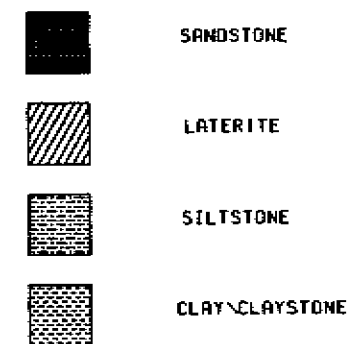
HOLLOW HISTOGRAM MM < 5
SOLID HISTOGRAM MM > 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR56		
PREPARED - G. HARRISON	DATE - 29-04-91	CHECKED - G. HARRISON
DRAWN - M. HARRISON	REVISED -	
CHECKED -	REVISION NO. -	



LEGEND

GEOLOGY



5 METRES

0.0

VSCALE = 500

B. B.

RSCALE = 5000

250.0 METRES

HOLLOW HISTOGRAM MN < S

SOLID HISTOGRAM MN ≈ 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRNS7		
PREPARED BY: M. 0015590	DRAWN: 24-000-09	CHECKED: 0015590
DATE: 11-08-1993	BY: 0015590	DATE: 11-08-1993
BY: 0015590	DATE: 11-08-1993	DATE: 11-08-1993

521350E

50

40

30

20

10

0

-10

-20

-30

-40

-50

521350E

TRR58

TER

CRE

PRO

34.00

50

40

30

20

10

0

-10

-20

-30

-40

-50

LEGEND

GEOLOGY

- DOLOMITE
- LATERITE
- SILTSTONE
- CLAY/CLAYSTONE

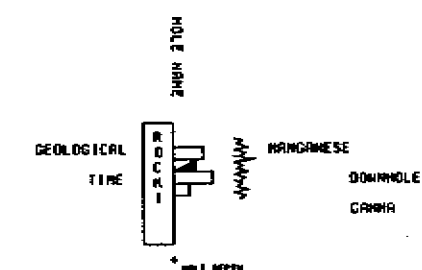
5 METRES

0.0

VSCALE = 500

0.0

HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN > 5

BHP MINERALS PTY. LTD.

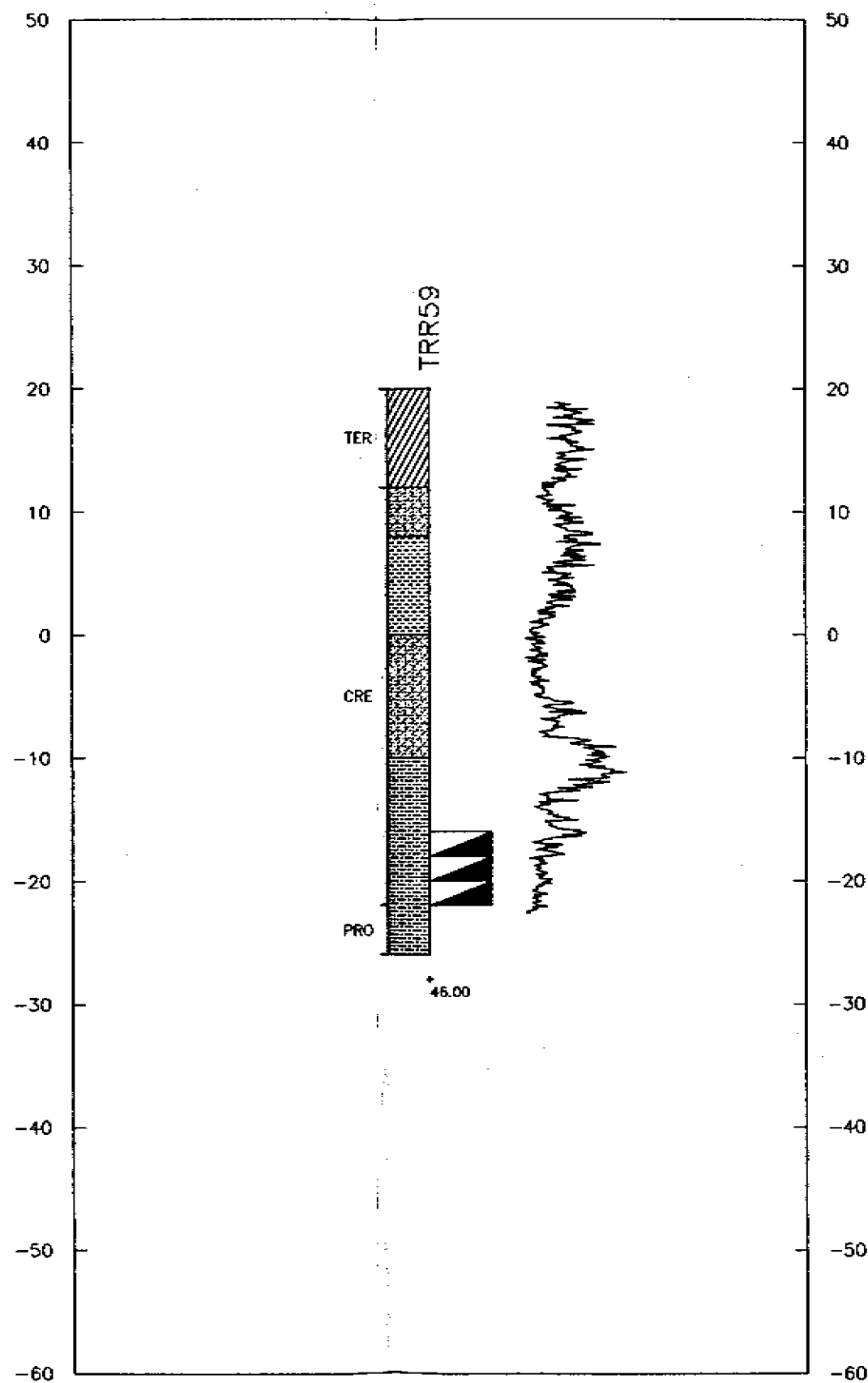
MCARTHUR RIVER DRILLING 1993

CARPENTARIA MANGANESE PROGRAM

DRILLHOLE TRR58

PREPARED BY: J. SMITH	DATE: 24-08-91	CHECKED BY: J. SMITH
DESIGNED BY: J. SMITH	REVISED BY:	
CHECKED BY:	DESIGNED BY:	

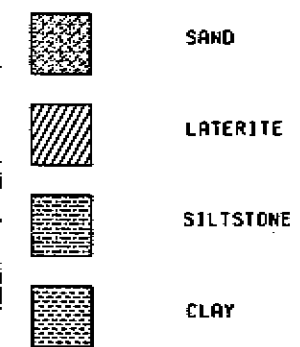
8326000N



8326000N

LEGEND

GEOLOGY



5 METRES

0.0

VSCALE = 500

0.0

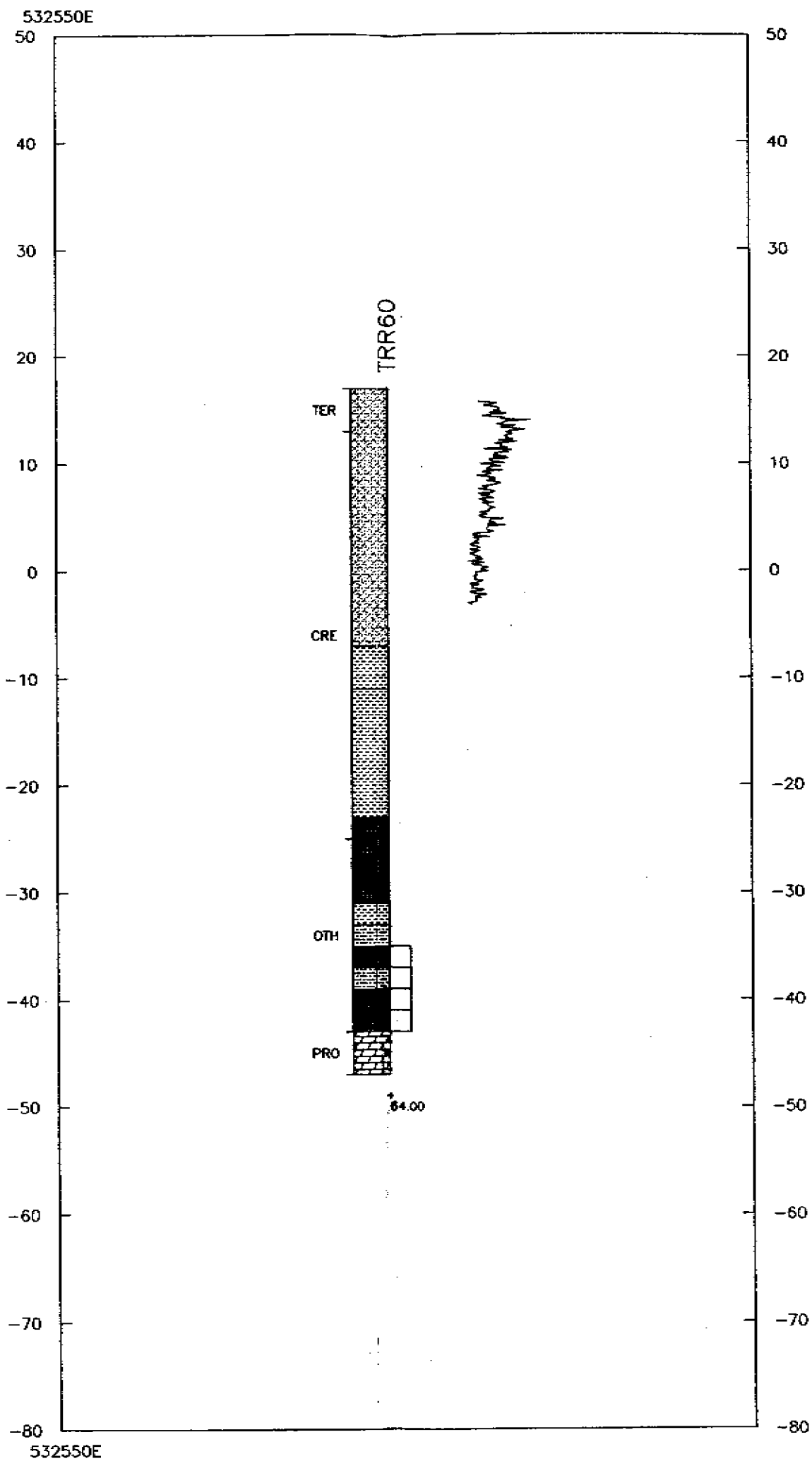
HSCALE = 5000

250.0 METRES

BHP MINERALS PTY. LTD.

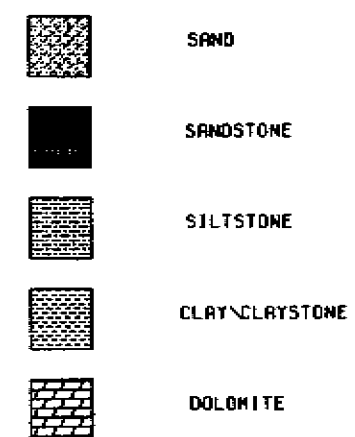
MCARTHUR RIVER DRILLING 1993
CARPENTARIA MANGANESE PROGRAM
DRILLHOLE TRR59

PREPARED BY: S. WATSON	DATE: 21-08-93	CHECKED BY: J. WATSON
APPROVED BY: S. WATSON	REVIEWED BY:	
CHECKED BY:	APPROVED BY:	



LEGEND

GEOLOGY



5 METRES

0.0

VSCALE = 500

0.0 HSCALE = 5000 250.0 METRES

GEOLOGICAL TIME

HOLE NAME

ROCK

DOWNHOLE

GAUSS

HOLE DEPTH

HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN >= 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR60		
PREPARED BY: M. HARRISON	DATE: 24-MAR-93	CHECKED BY: M. HARRISON
REVIEWED BY: M. HARRISON	REVIEWED BY: M. HARRISON	
CHECKED BY: M. HARRISON	REVIEWED BY: M. HARRISON	

535200E

50

40

30

20

10

0

-10

-20

-30

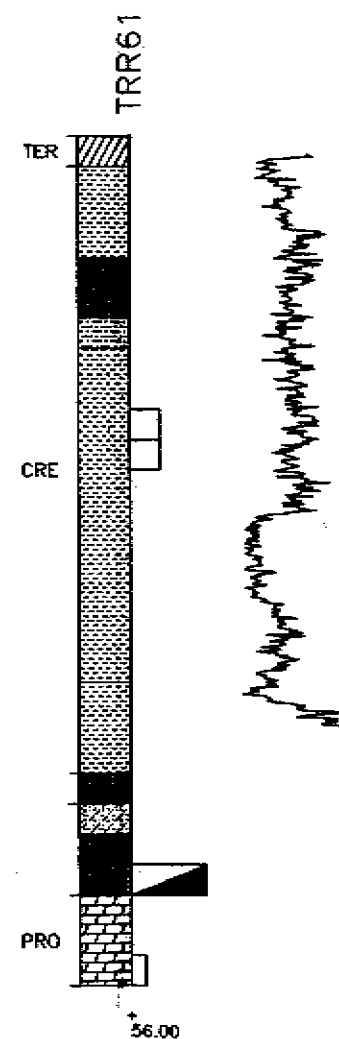
-40

-50

-60

-70

535200E



50

40

30

20

10

0

-10

-20

-30

-40

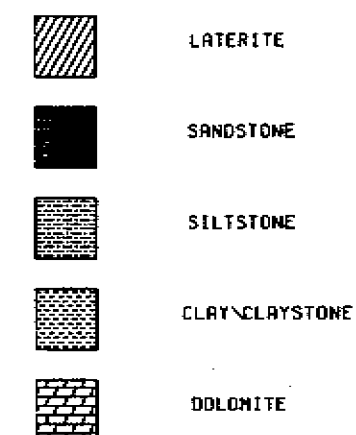
-50

-60

-70

LEGEND

GEOLOGY



5 METRES

0.0

VSCALE = 500

0.0

HSCALE = 5000

250.0 METRES

GEOLOGICAL

TIME

HOLE NAME

BLOCK 1

HOLE DEPTH

MANGANESE

DONNHOLE

GAMMA

HOLLOW HISTOGRAM MM < 5

SOLID HISTOGRAM MM >= 5

BHP MINERALS PTY. LTD.

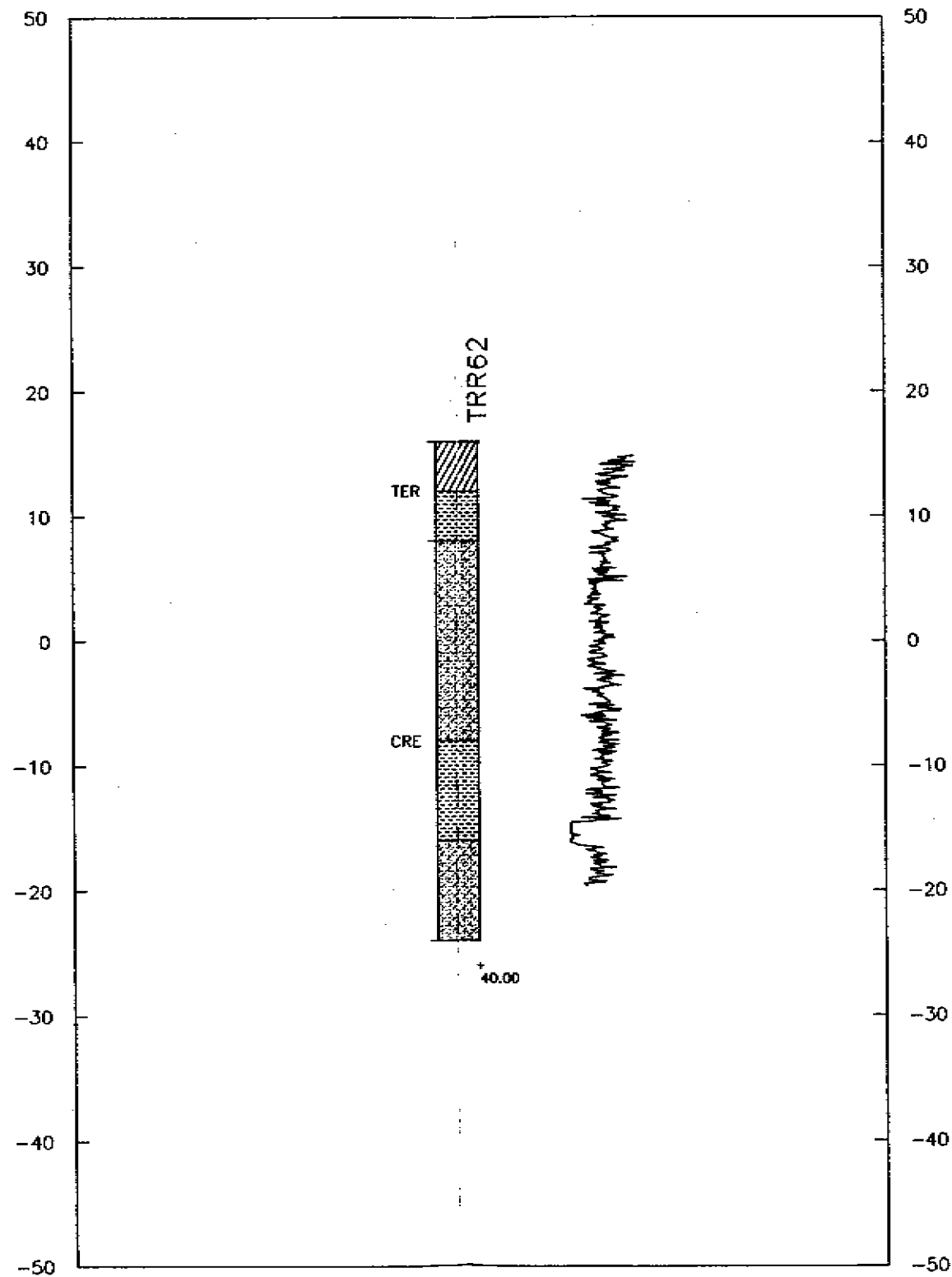
MCARTHUR RIVER DRILLING 1993

CARPENTARIA MANGANESE PROGRAM

DRILLHOLE TRR61

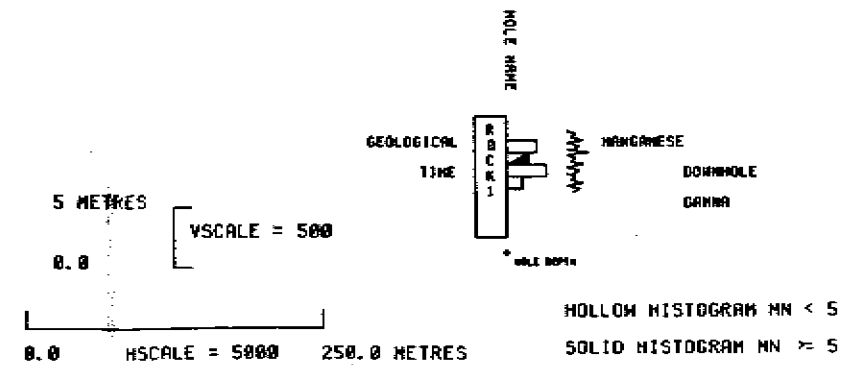
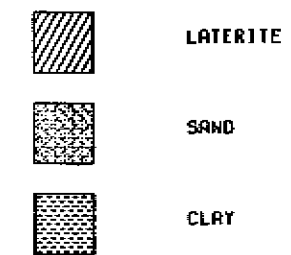
PREPARED BY: M. WILKINSON	DATE: 24 MAR 94	CHECKED BY: M. WILKINSON
DRAWN BY: M. WILKINSON	REVISED BY:	
CHECKED BY:	APPROVED BY:	

8329750N



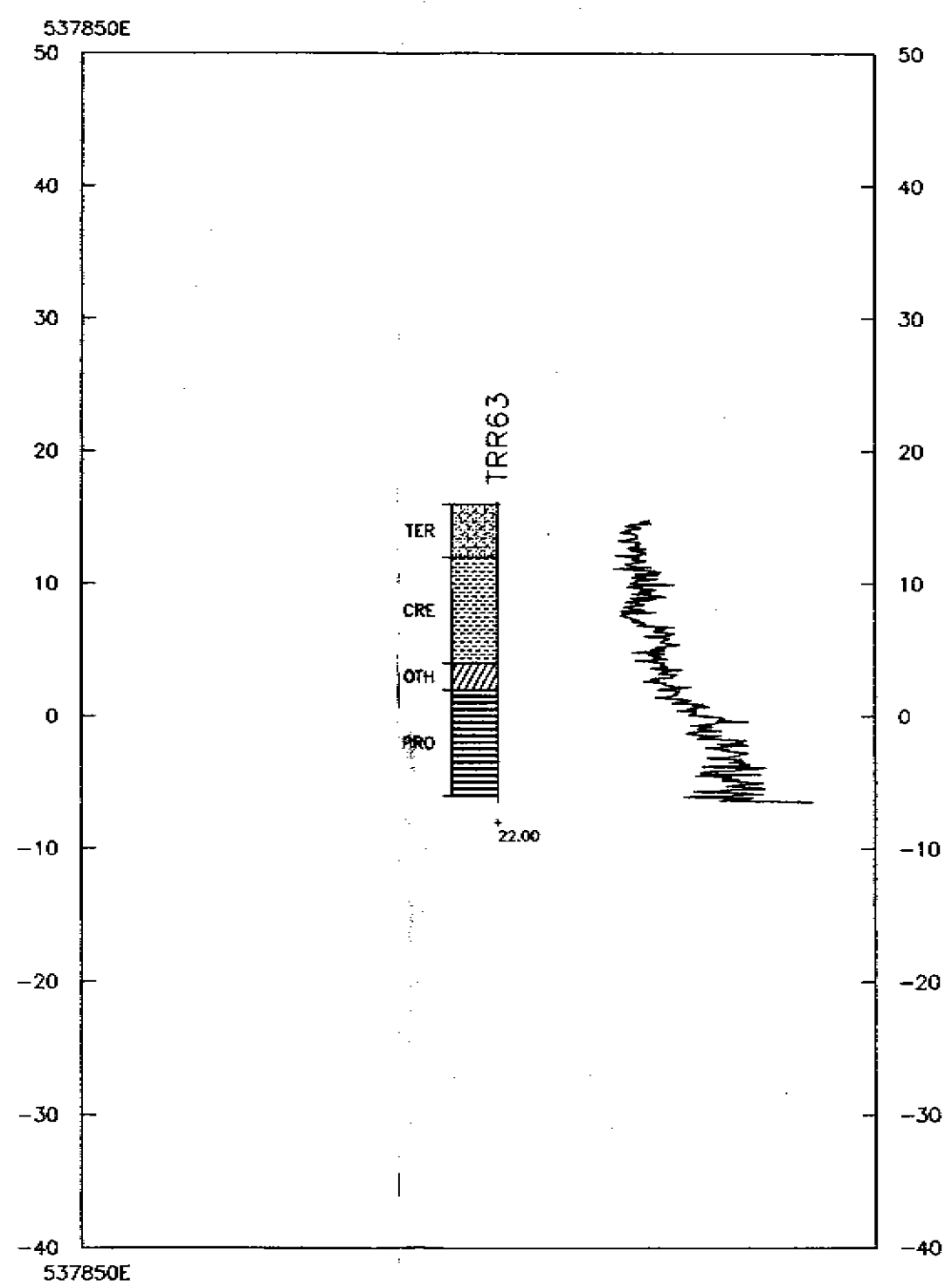
LEGEND

GEOLOGY



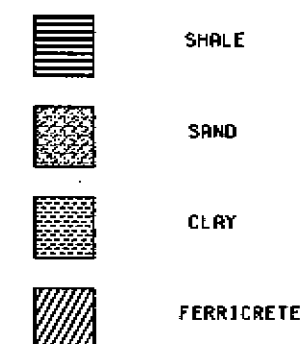
BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR62		
PREPARED BY: AL MUISSAW	DATE: 24-MAR-94	CHECKED BY: MUISSAW
DRAWN BY: AL MUISSAW	REVIEWED BY:	
CHECKED BY:	REVISION NO.:	

8329750N



LEGEND

GEOLOGY



5 METRES

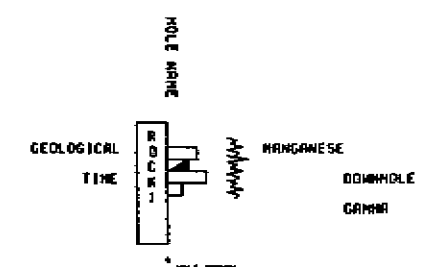
0.0

VSCALE = 500

0.0

HSCALE = 5000

250.0 METRES



HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN > 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR63		
PREPARED BY: A. HARRISON	DATE: 21-08-94	CHECKED BY: A. HARRISON
DRAWN BY: A. HARRISON	REVISED BY:	
CHECKED BY:	DRAWING NO.:	

536900E

50

40

30

20

10

0

-10

-20

-30

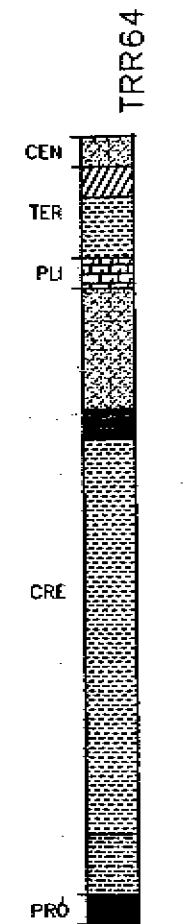
-40

-50

-60

-70

536900E



50

40

30

20

10

0

-10

-20

-30

-40

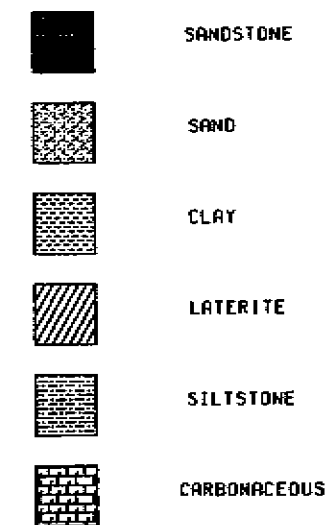
-50

-60

-70

LEGEND

GEOLOGY



5 METRES

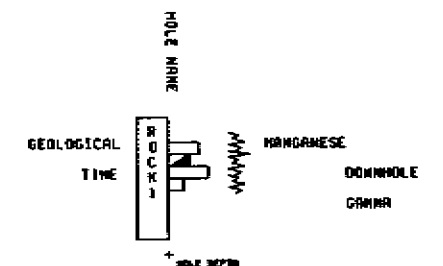
0.0

VSCALE = 500

0.0

HSCALE = 5000

250.0 METRES



HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN >= 5

BHP MINERALS PTY. LTD.

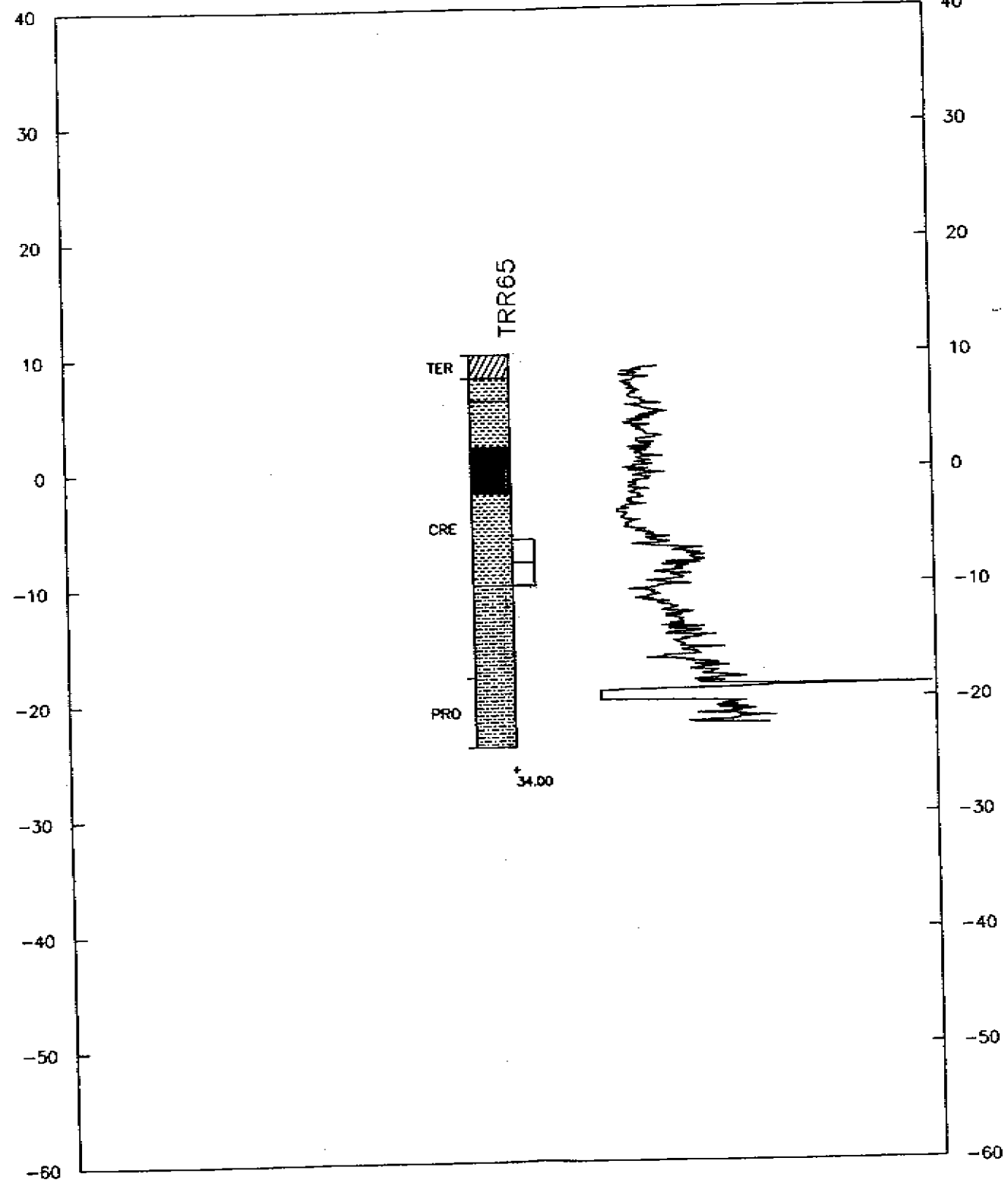
MCARTHUR RIVER DRILLING 1993

CARPENTARIA MANGANESE PROGRAM

DRILLHOLE TRR64

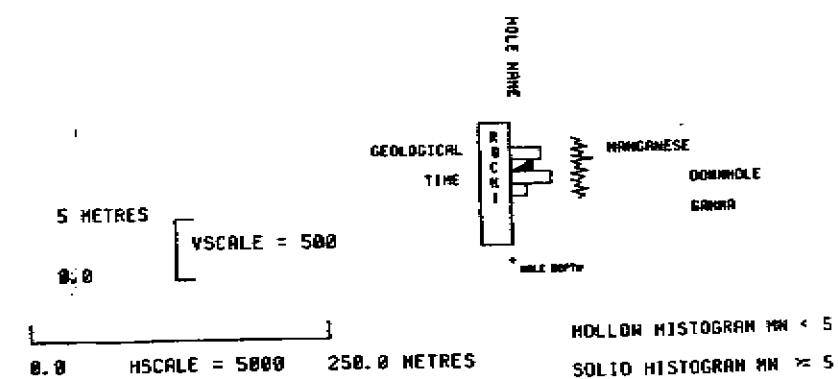
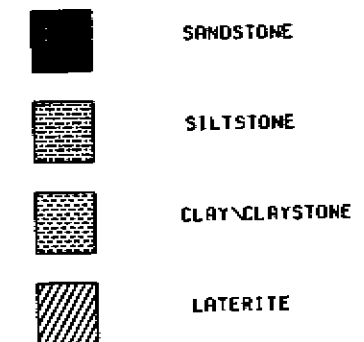
PREPARED BY: J. W. WILSON	DATE: 21-08-93	CHECKED BY: J. W. WILSON
DESIGNED BY: J. WILSON	REVIEWED BY: J. WILSON	
DRAWN BY: J. WILSON		

8333850N



LEGEND

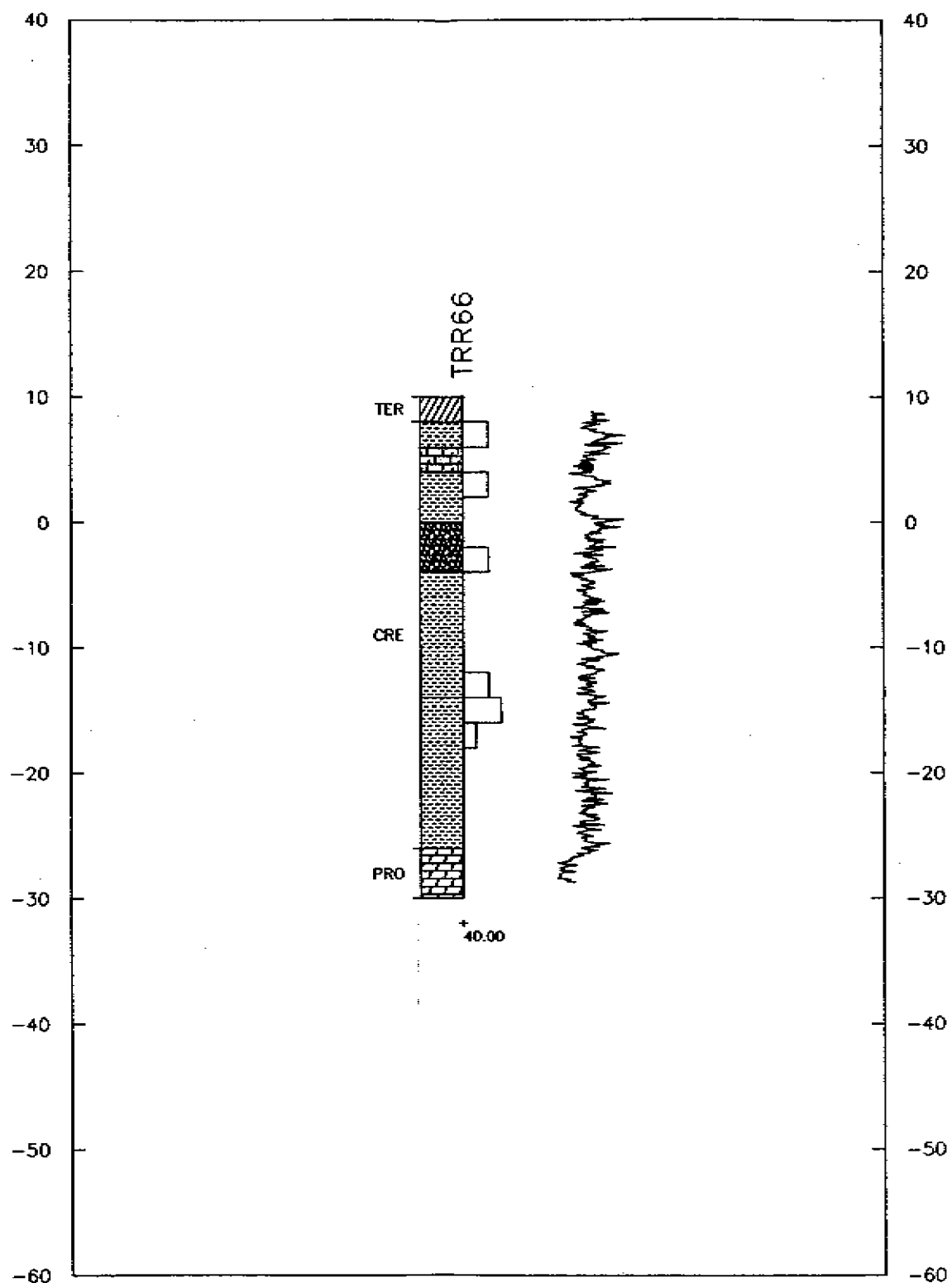
GEOLOGY



BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR65		
PREPARED BY: J. HARRISON	DATE: 24-MAR-93	ENGINEER: J. HARRISON
DRAWN BY: J. HARRISON	REVISED:	
CHECKED:	REVIEWED BY:	

8333850N

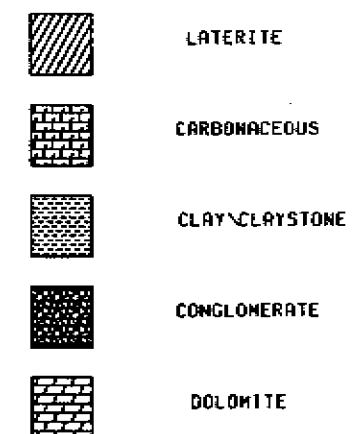
8336100N



8336100N

LEGEND

GEOLOGY



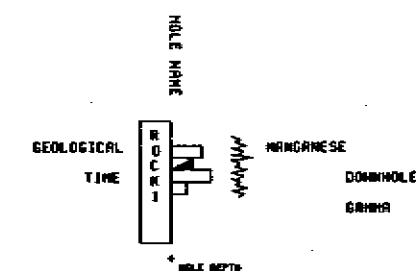
5. METRES

0.0

VSCALE = 500

0.0

HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MM < 5

SOLID HISTOGRAM MM > 5

BHP MINERALS PTY. LTD.

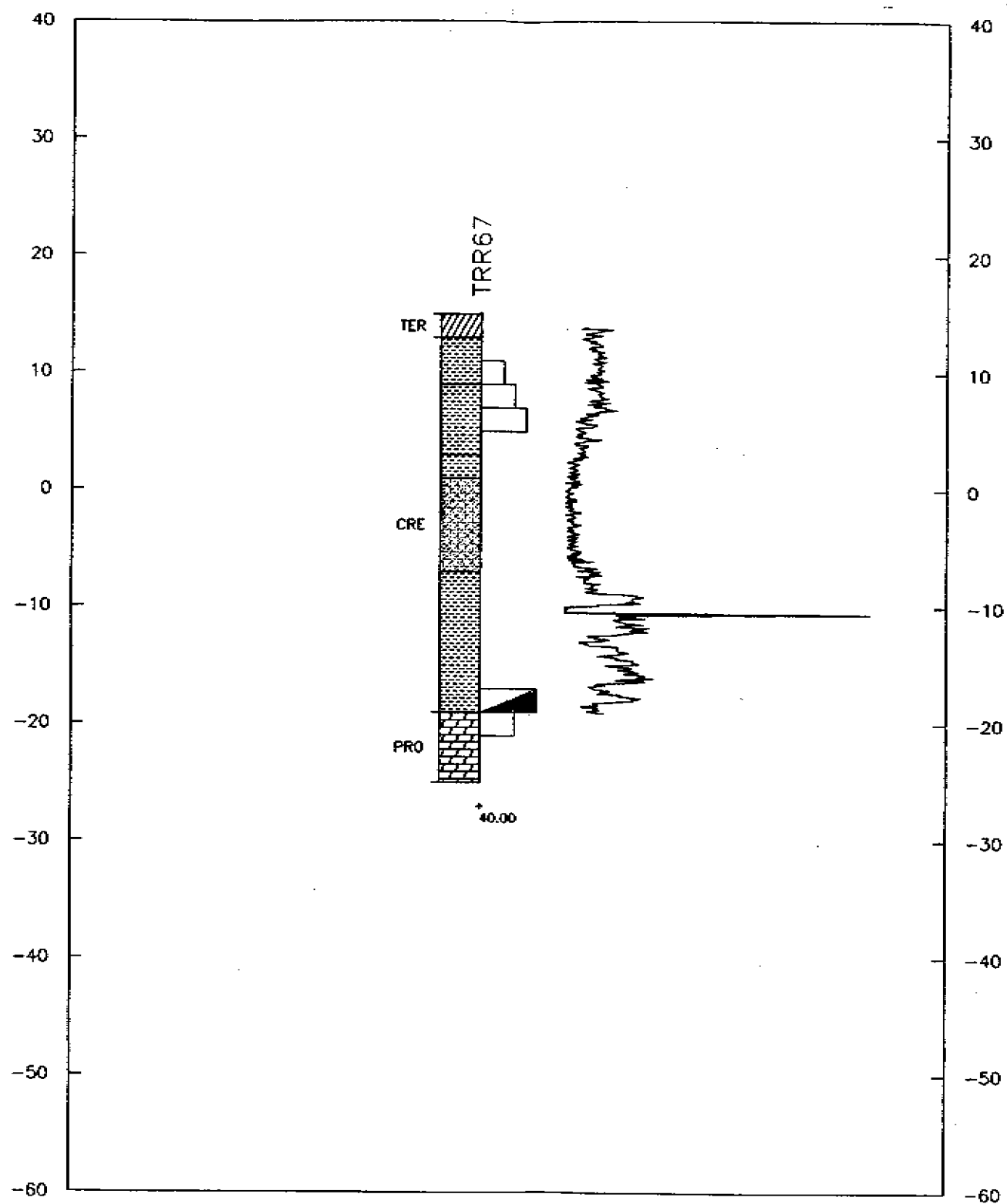
MCARTHUR RIVER DRILLING 1993

CARPENTARIA MANGANESE PROGRAM

DRILLHOLE TRR66

PREPARED BY: J. J. J. J.	DATE: 24-08-94	CHECKED BY: J. J. J. J.
REVIEWED BY: J. J. J. J.	REVIEWED BY: J. J. J. J.	
CHECKED BY: J. J. J. J.	REVIEWED BY: J. J. J. J.	

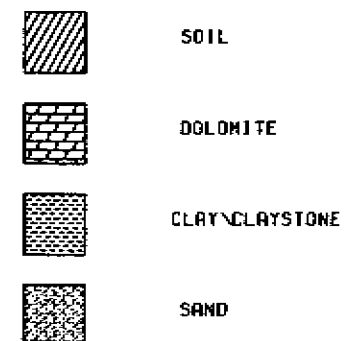
8327900N



8327900N

LEGEND

GEOLOGY



5 METRES

0.0

VSCALE = 500

0.0

HSCALE = 5000

250.0 METRES

GEOLOGICAL
TIME

HOLE NAME

ROCK 1

MANGANESE
DOWNHOLE
GRAIN

* HOLE ACTS

HOLLOW HISTOGRAM MM $\times$ 5SOLID HISTOGRAM MM $\times$ 5

BHP MINERALS PTY. LTD.

MCARTHUR RIVER DRILLING 1993

CARPENTARIA MANGANESE PROGRAM

DRILLHOLE TRR67

PREPARED BY: H. J. 1993

DATE: 27-08-93

CHECKED BY: H. J. 1993

DRAWN BY: H. J. 1993

REVISED BY: H. J. 1993

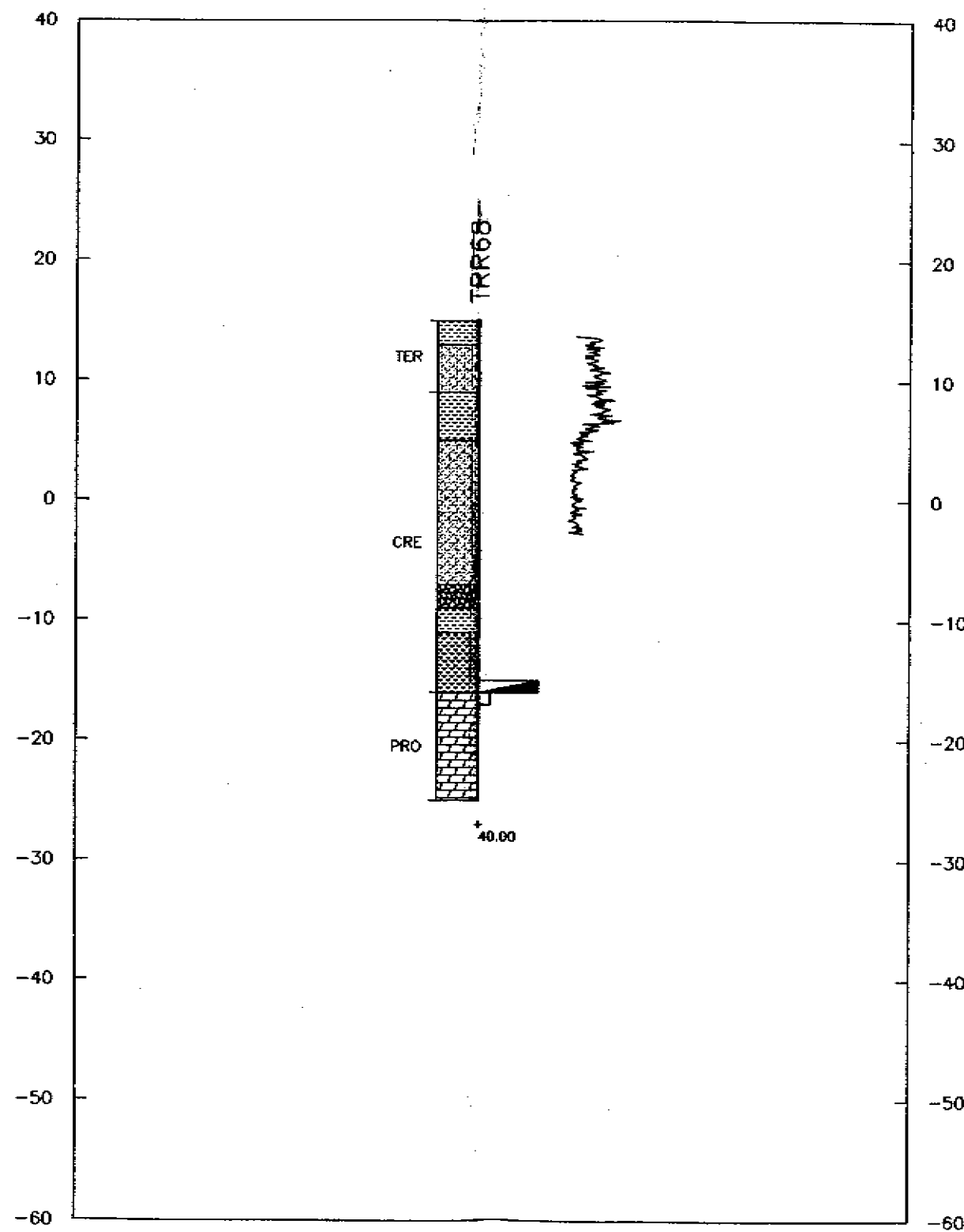
DRAWN BY: H. J. 1993

CHECKED BY: H. J. 1993

DRAWN BY: H. J. 1993

DRAWN BY: H. J. 1993

8327750N



LEGEND

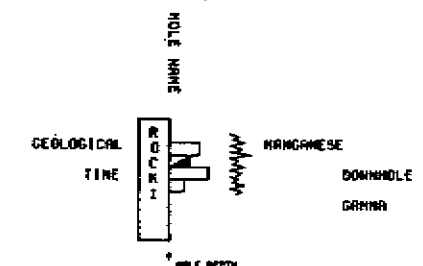
GEOLOGY

- CONGLOMERATE
- DOLOMITE
- CLAY
- SAND
- BRECCIA

5 METRES

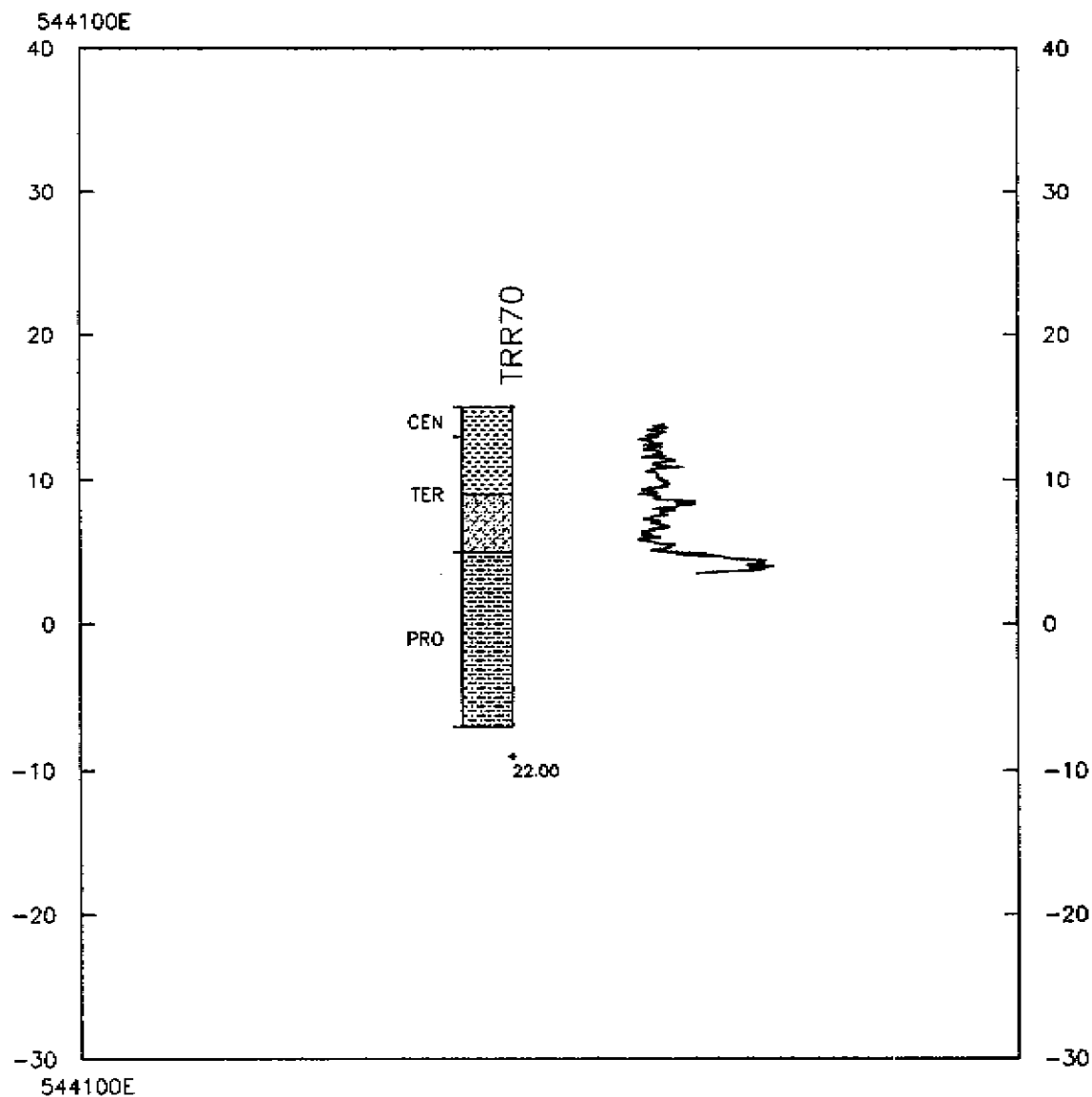
YSCALE = 500

HSCALE = 5000



HOLLOW HISTOGRAM MN < 5
SOLID HISTOGRAM MN > 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR68		
PREPARED BY: M. J. JONES	DATE: 21-MAR-93	CHECKED BY: M. J. JONES
DRAWN BY: M. J. JONES	REVISED BY:	
CHECKED BY:	DATE: 21-MAR-93	



LEGEND

GEOLOGY



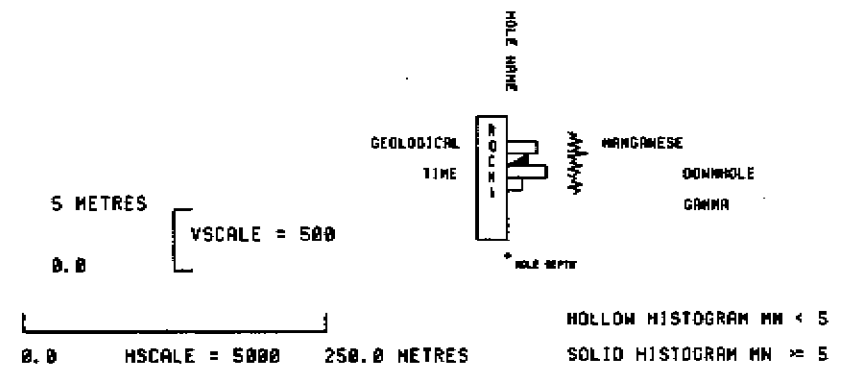
CLAY



SAND



SILTSTONE



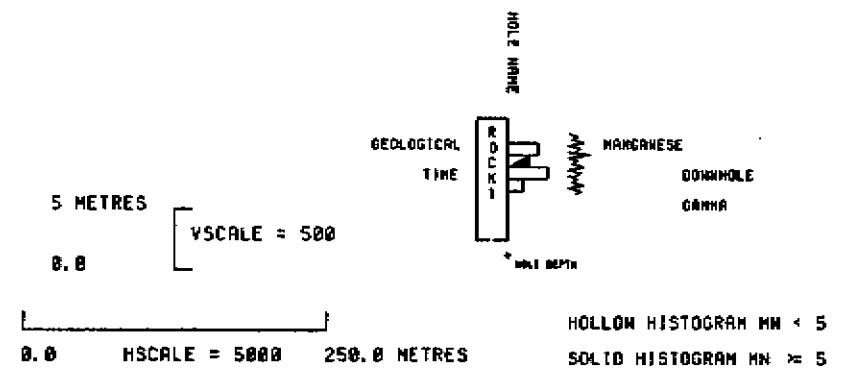
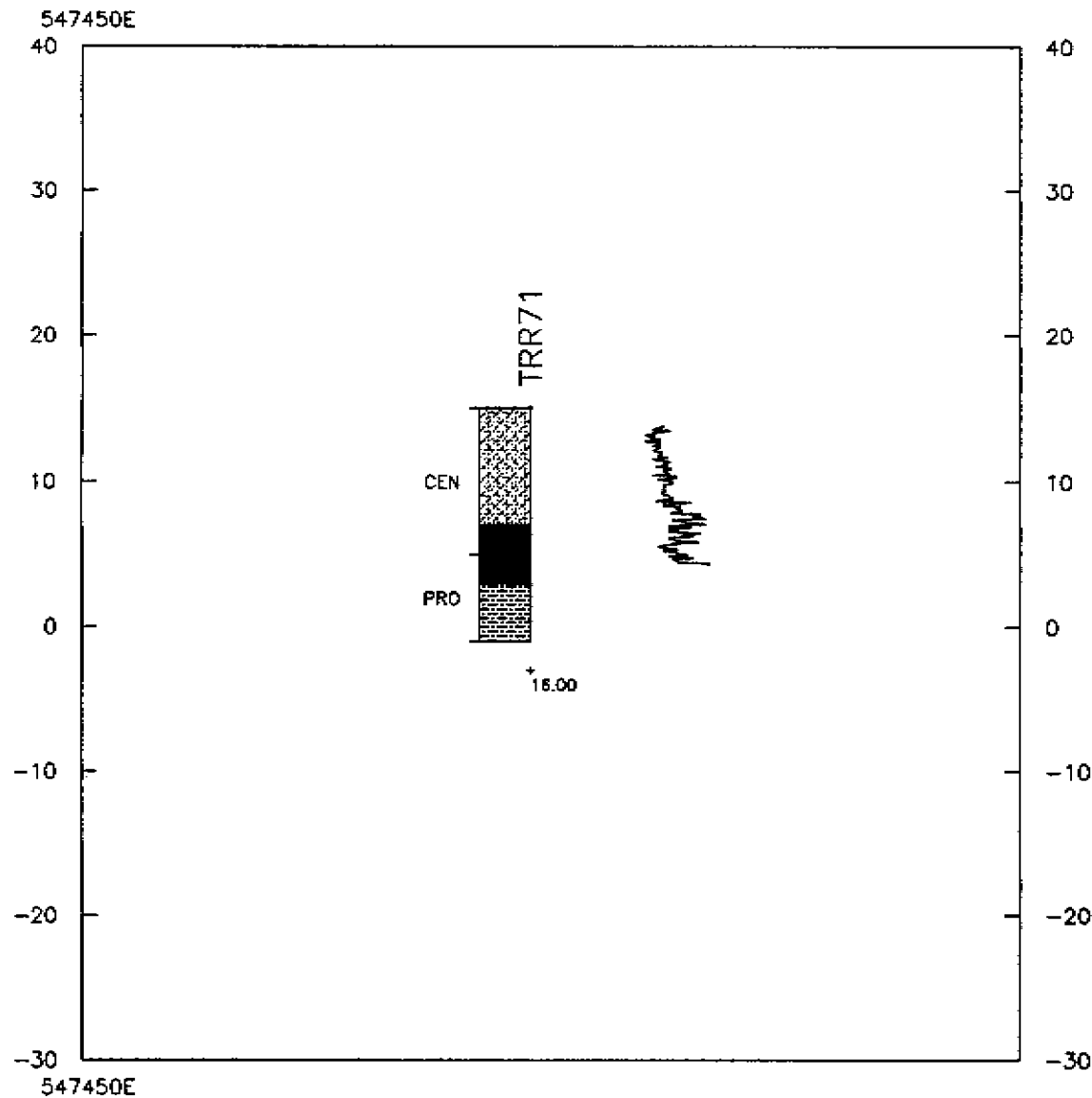
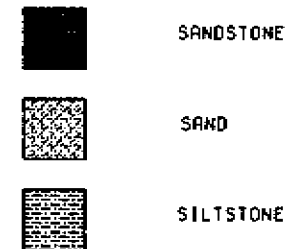
BHP MINERALS PTY. LTD.

MCARTHUR RIVER DRILLING 1993
CARPENTARIA MANGANESE PROGRAM
DRILLHOLE TRR70

PREPARED BY: H. ANDERSON	DRAWN BY: H. ANDERSON	CHECKED BY: H. ANDERSON
DATE: 21-MAR-94	DATE: 21-MAR-94	DATE: 21-MAR-94
BY: H. ANDERSON	BY: H. ANDERSON	BY: H. ANDERSON

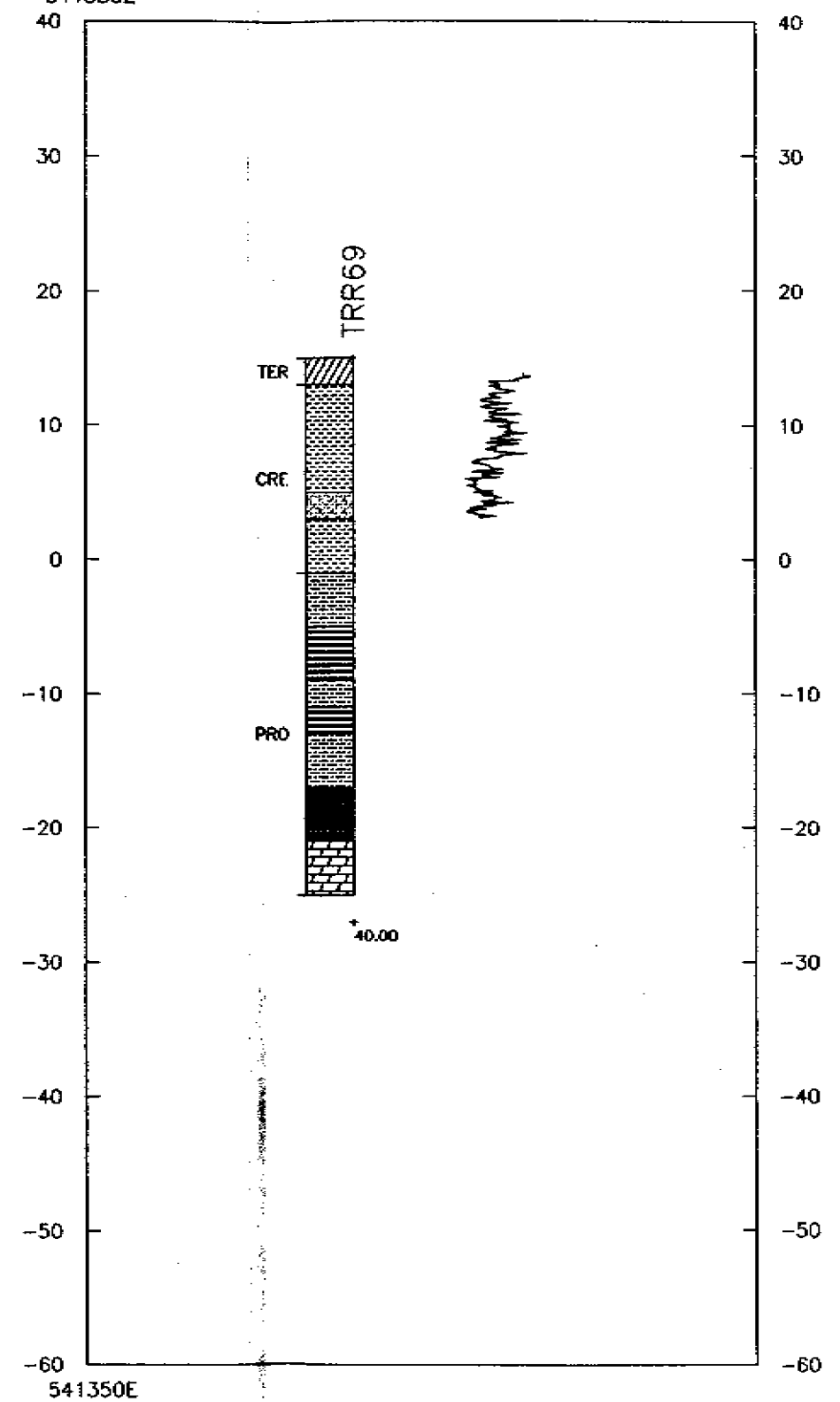
LEGEND

GEOLOGY



BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1995		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR71		
PREPARED BY: J. SMITH	DATE: 25-08-95	CHECKED BY: J. SMITH
DRAWN BY: J. SMITH	REVIEWED BY:	
CHECKED BY:	DRAWING NO.:	

541350E



LEGEND

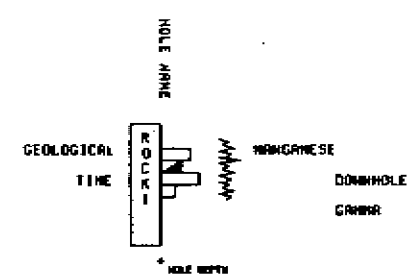
GEOLOGY

- LATERITE
- DOLOMITE
- CLAY
- SAND
- CHERT
- SILTSTONE
- SANDSTONE

5 METRES

VSCALE = 500

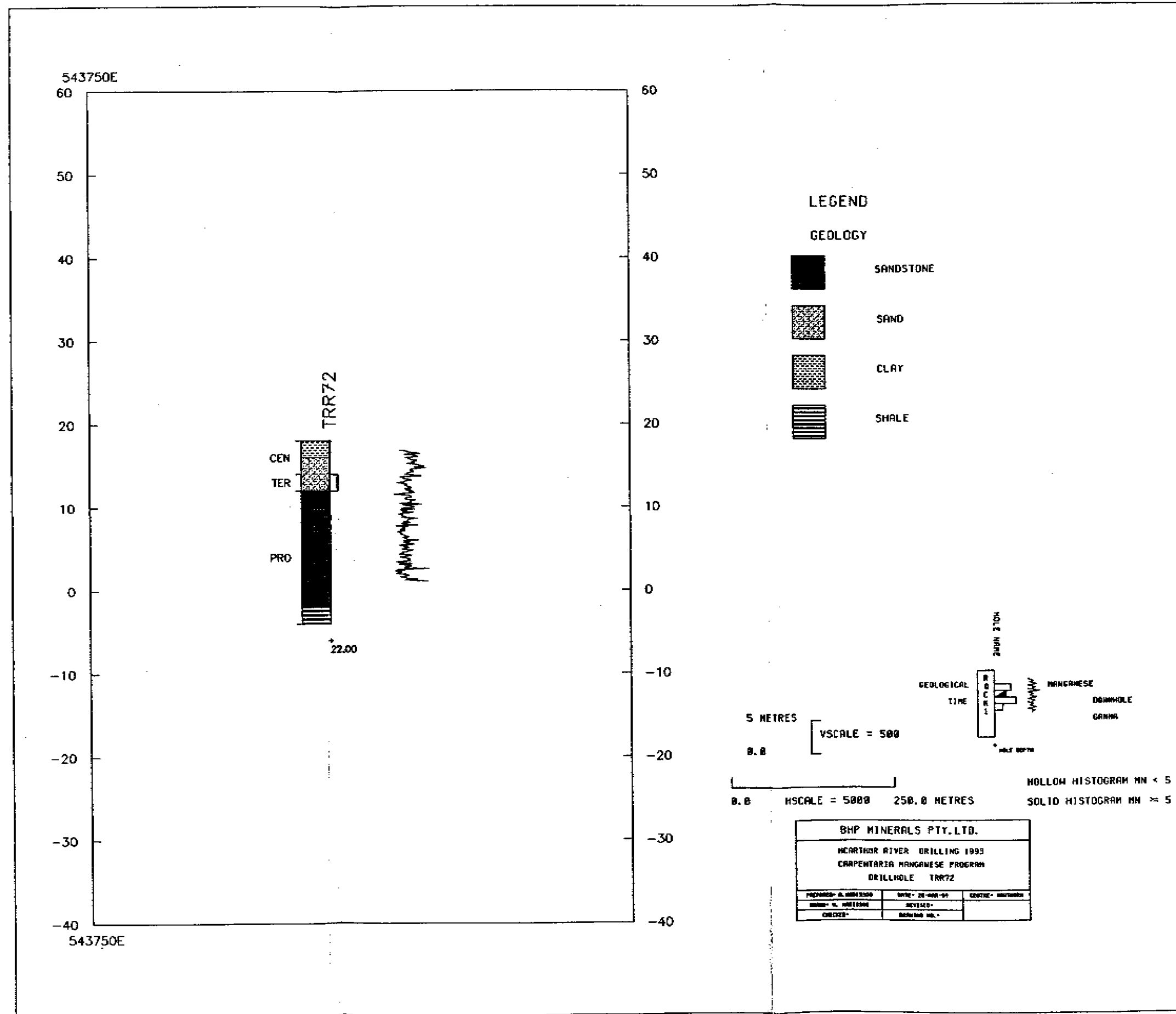
HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MM < 5

SOLID HISTOGRAM MM > 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR69		
PREPARED BY: J. B. B. 1993	DATE: 24-08-93	CHECKED BY: J. B. B.
REVIEWED BY: J. B. B.	REVIEWED BY: J. B. B.	
CHECKED BY: J. B. B.	REVIEWED BY: J. B. B.	



539050E

60

50

40

30

20

10

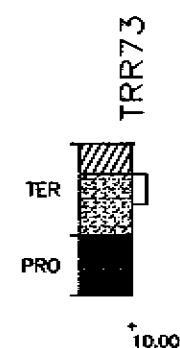
0

-10

-20

-30

539050E



LEGEND

GEOLOGY



5 METRES

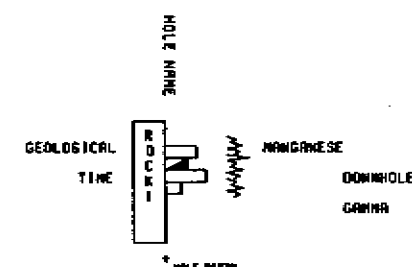
0.0

VSCALE = 500

0.0

HSCALE = 5000

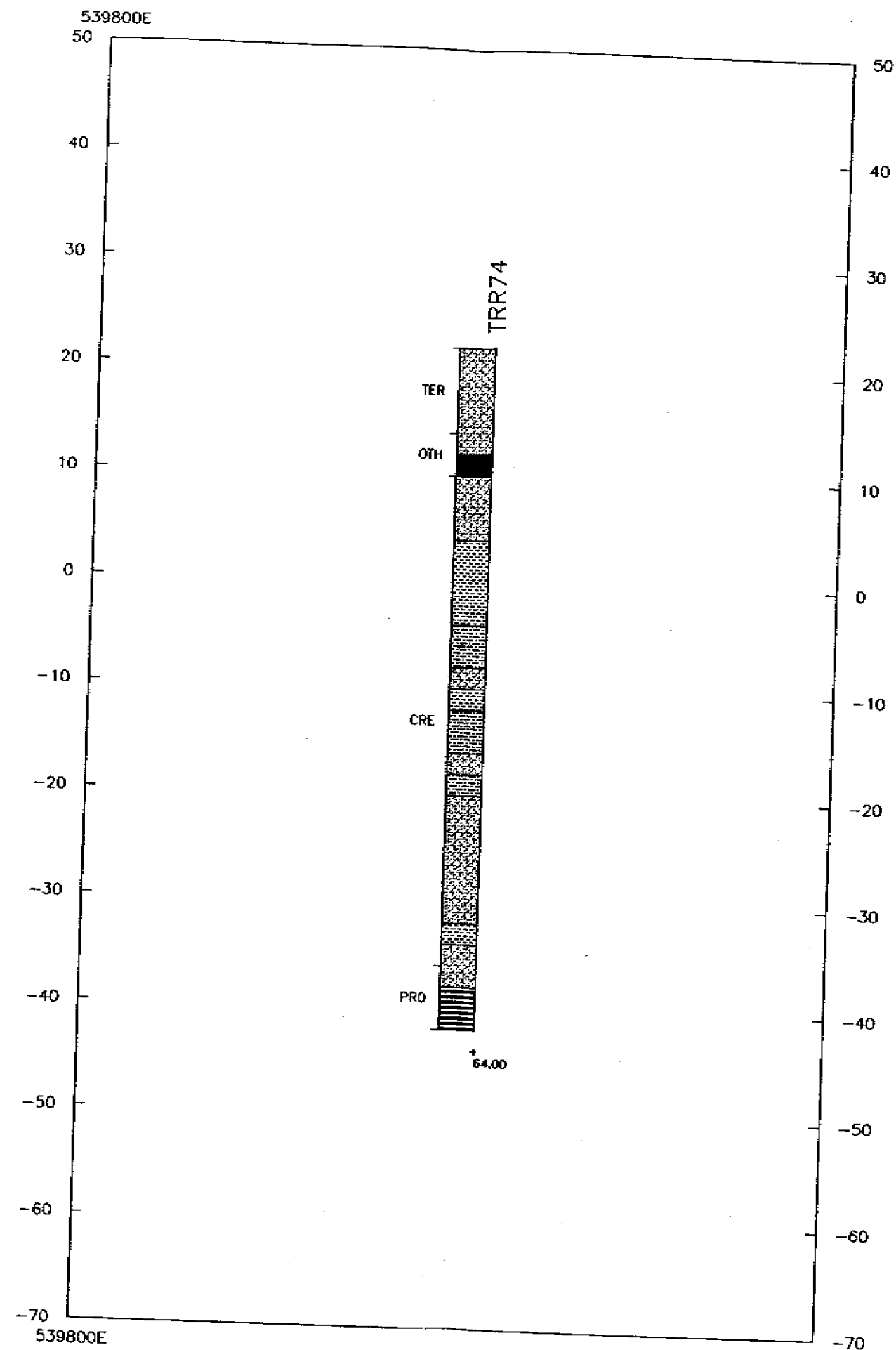
250.0 METRES



HOLLOW HISTOGRAM MM < 5

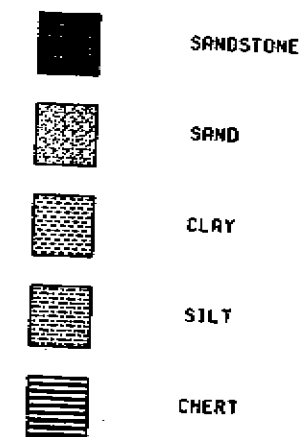
SOLID HISTOGRAM MM > 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR73		
PREPARED BY: M. HARRISON	DATE: 25-MAR-04	CHECKED BY: M. HARRISON
DRAWN BY: M. HARRISON	REVISED BY:	
CHECKED BY:	GEOPHYSICIST:	



LEGEND

GEOLOGY



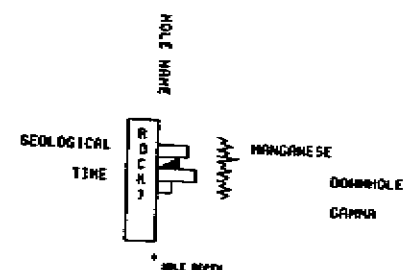
5 METRES

0.0

VSCALE = 500

0.0

HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MM x 5

SOLID HISTOGRAM MM x 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR74		
PREPARED BY: J. M. 10000	DATE: 25-08-93	CHECKED BY: M. 10000
DRAWN BY: M. 10000	REVISED BY:	
CHECKED BY:	REVISION NO.:	

541300E

50

40

30

20

10

0

-10

-20

-30

-40

-50

-60

541300E

TRR75

CEN

TER

OTH

CRE

PRO

+ 52.00

50

40

30

20

10

0

-10

-20

-30

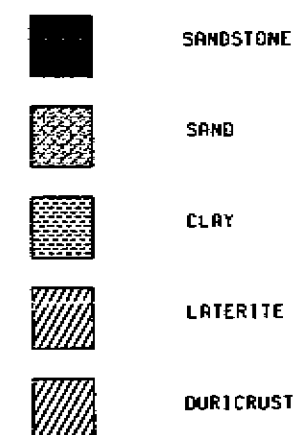
-40

-50

-60

LEGEND

GEOLOGY



5 METRES

0.0

YSCALE = 500

0.0 HSCALE = 5000 250.0 METRES

GEOLOGICAL
TIMEHOLE NAME
TRR75
HOLE DEPTHMANGANESE
DOWNHOLE
GAMMA

HOLLOW HISTOGRAM MM < 5

SOLID HISTOGRAM MM > 5

BHP MINERALS PTY. LTD.

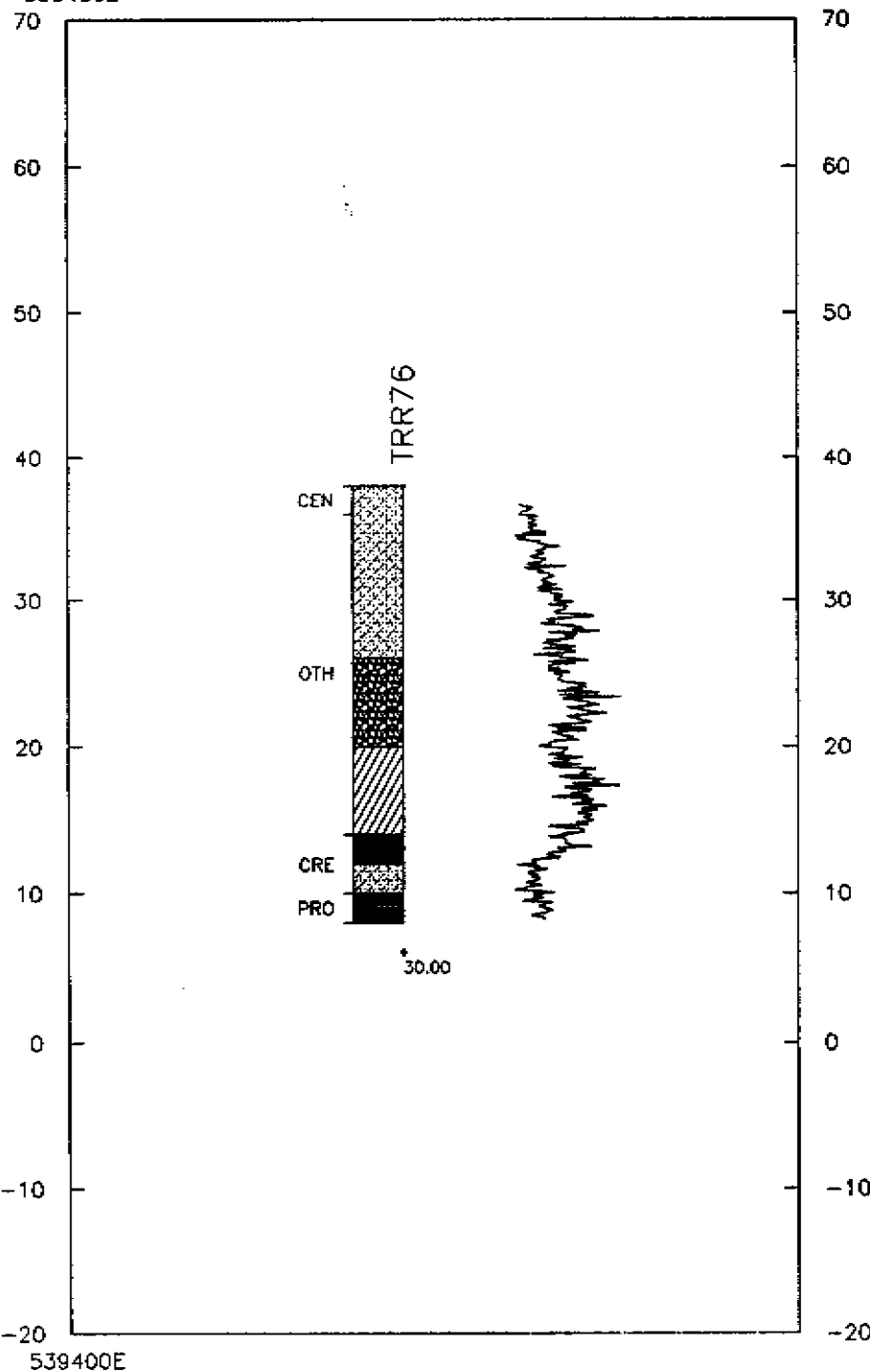
MCARTHUR RIVER DRILLING 1993

CARPENTARIA MANGANESE PROGRAM

DRILLHOLE TRR75

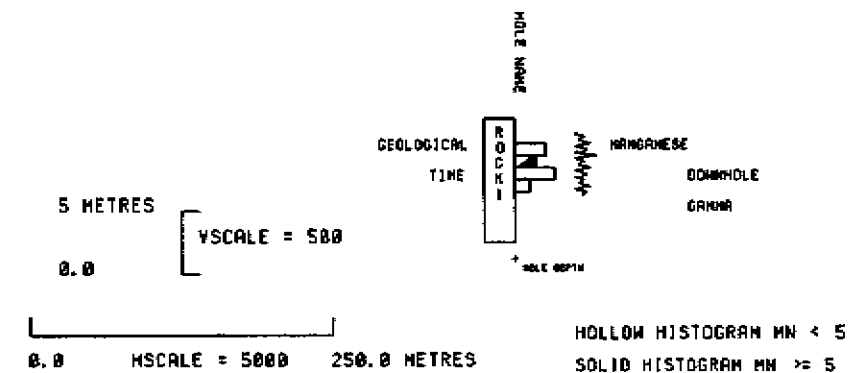
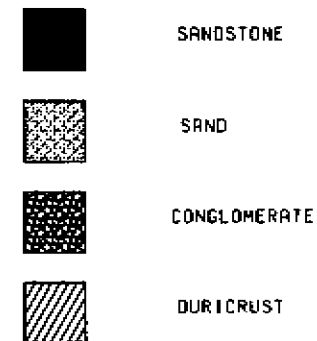
PREPARED BY: A. HARRIS	DATE: 25-08-04	CHECKED BY: M. HARRIS
DESIGNED BY: A. HARRIS	REVISION: 1	
DRAWN BY: A. HARRIS	DRAWING NO.: 1	

539400E

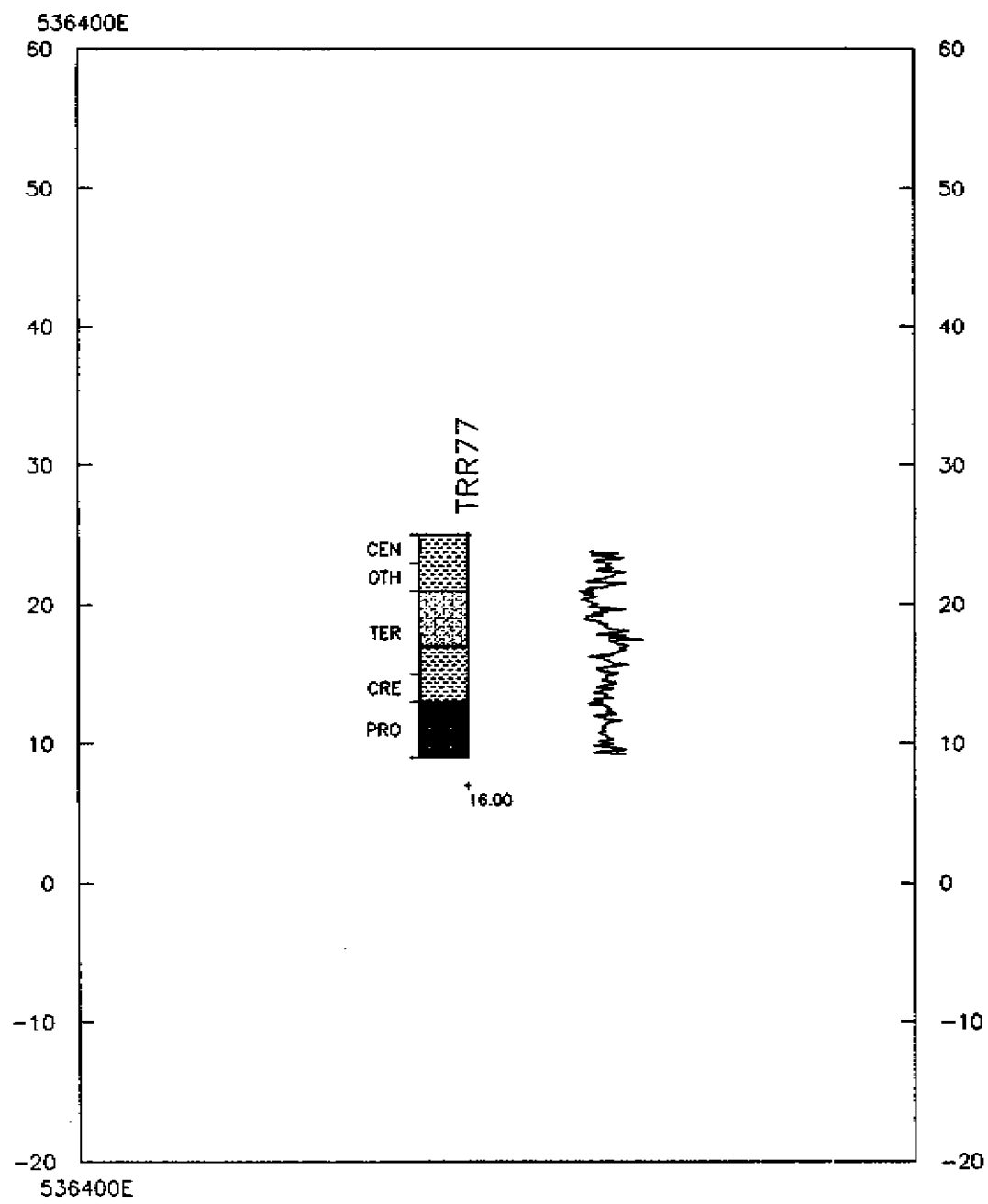


LEGEND

GEOLOGY



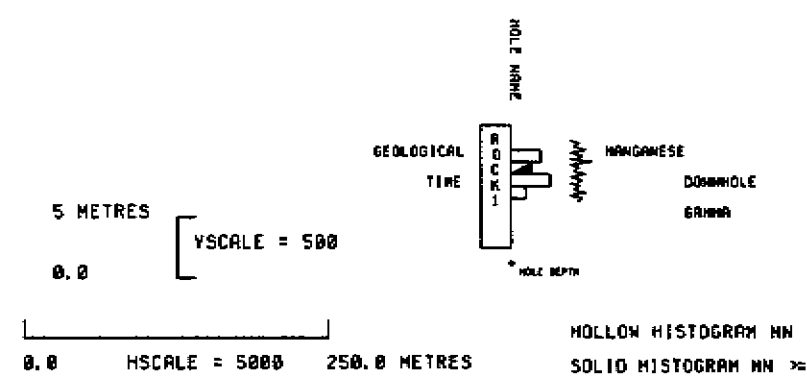
BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1983		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR76		
PREPARED BY: J. HARRISON	DATE: 25-08-84	CHECKED BY: J. HARRISON
DRAWN BY: J. HARRISON	REVISED:	
CHECKED:	DRAWING NO.:	



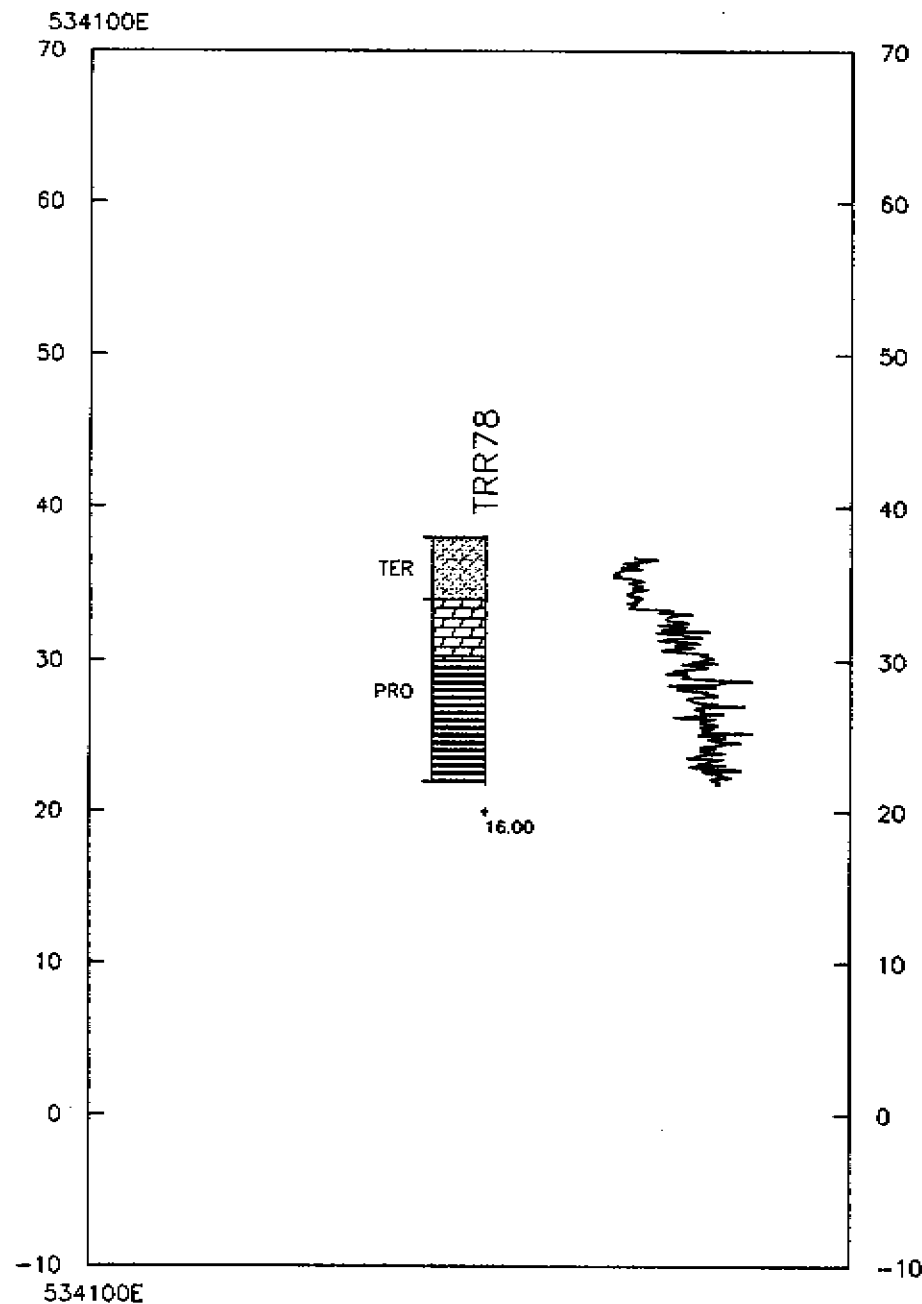
LEGEND

GEOLOGY

-  SANDSTONE
-  SAND
-  CLAY

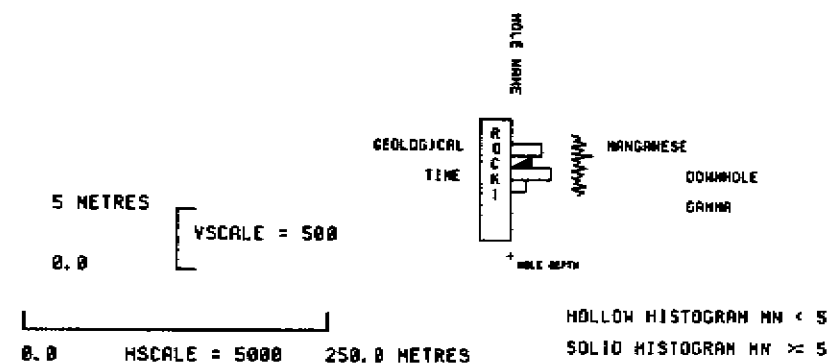
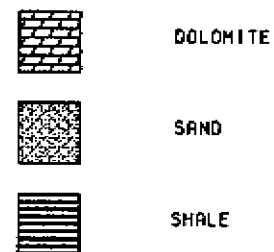


BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR77		
PREPARED BY: A. HADJIS	DATE: 25-SEP-93	CHECKED BY: A. HADJIS
DESIGNED BY: A. HADJIS	REVISED BY: A. HADJIS	
CHECKED BY: A. HADJIS	DRILLING NO.: A. HADJIS	



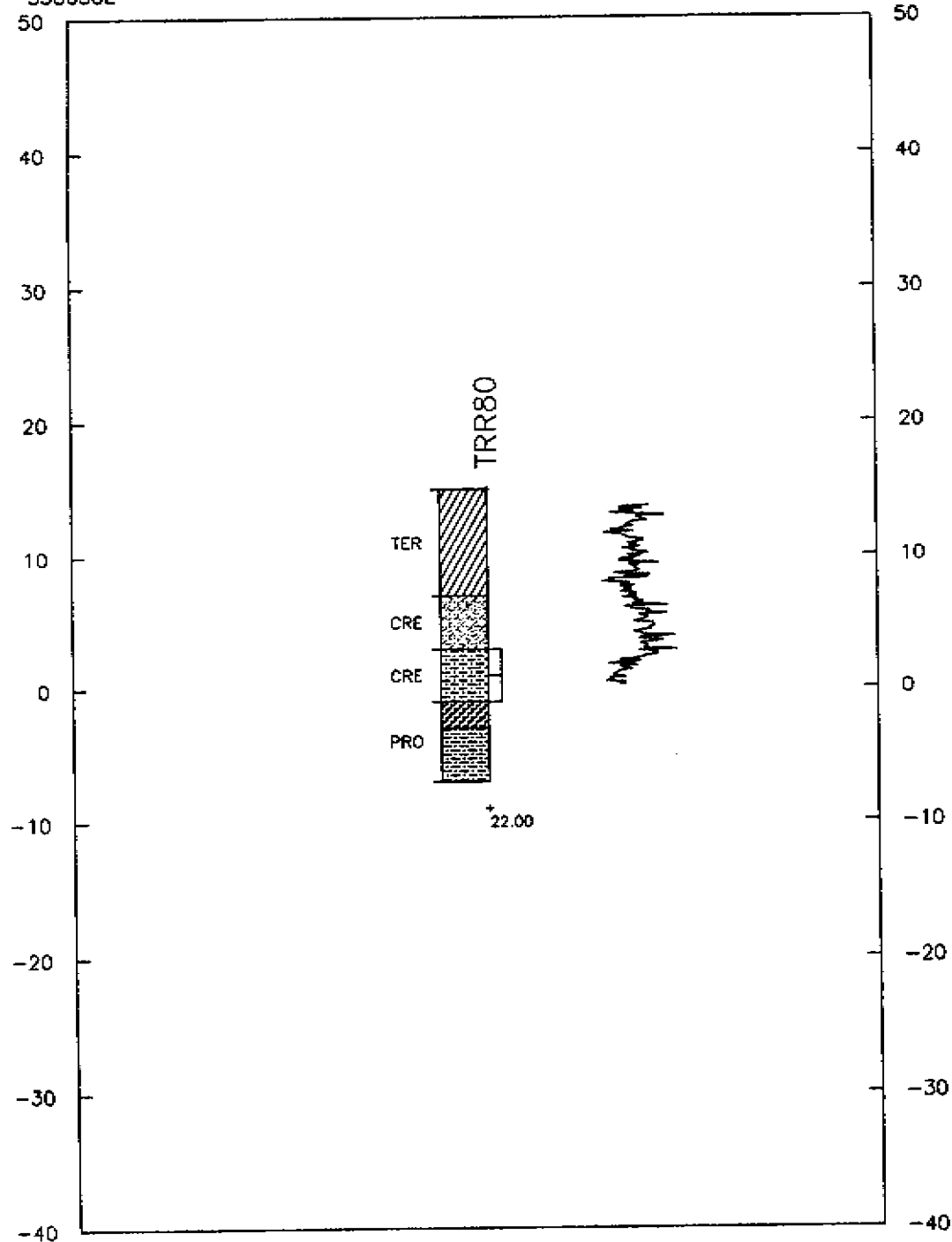
LEGEND

GEOLOGY



BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR78		
PREPARED BY: J. L. 10001/0000	DATE: 25-08-94	CHECKED BY: J. L. 10001/0000
DESIGNED BY: J. L. 10001/0000	CHECKED BY: J. L. 10001/0000	
CHECKED BY: J. L. 10001/0000	DESIGNED BY: J. L. 10001/0000	

538650E



LEGEND

GEOLOGY



LATERITE



SAND



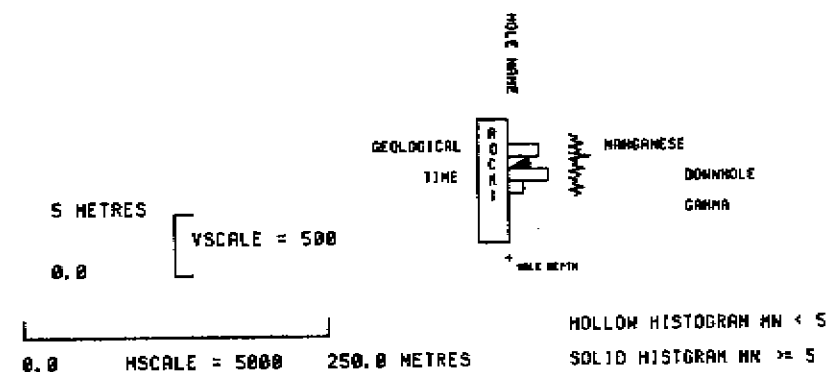
SILT



SILTSTONE



QUARTZITE

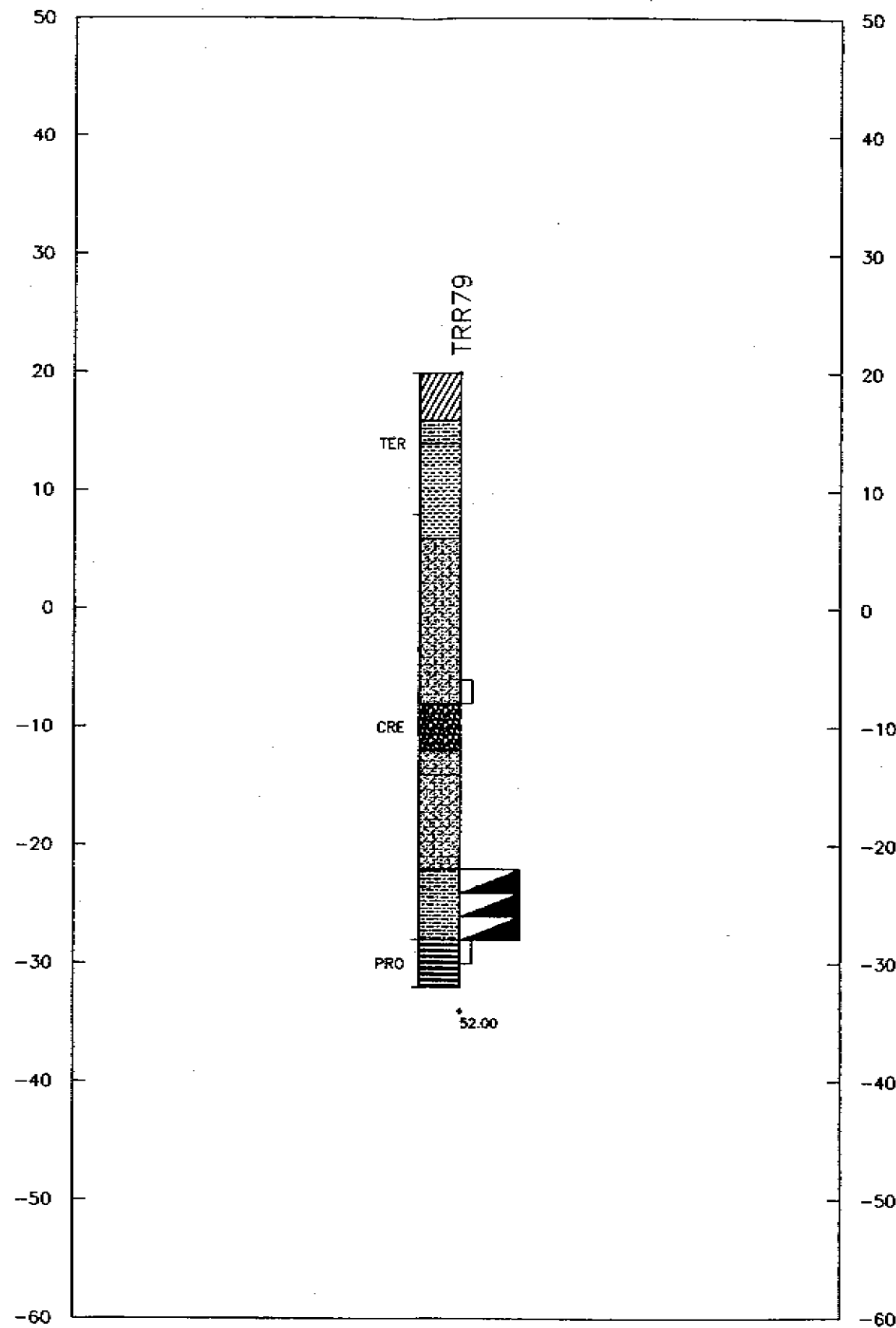


BHP MINERALS PTY. LTD.

MCARTHUR RIVER DRILLING 1993
CARPENTARIA HANDGAMMA PROGRAM
DRILLHOLE TRR80

PREPARED BY: J. M. B. B. B.	DATE: 24-10-94	CONT'D: 10/10/94
DRAWN BY: J. M. B. B. B.	REVISED:	
CHECKED BY:	DRILLING NO.:	

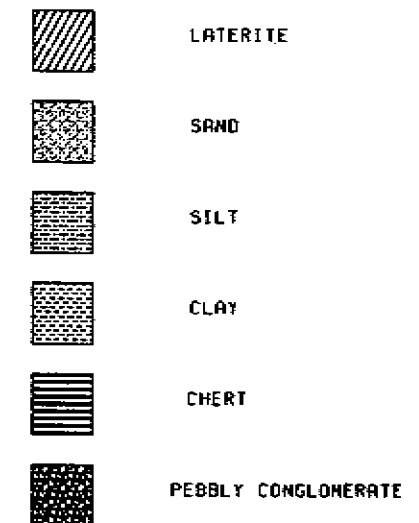
8326300N



8326300N

LEGEND

GEOLOGY



5 METRES

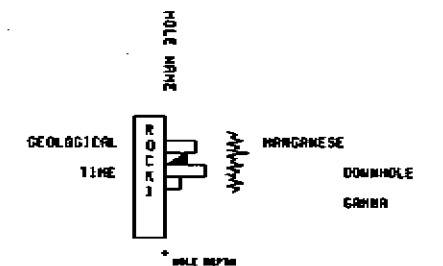
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VSCALE = 500

0.0

HSCALE = 5000

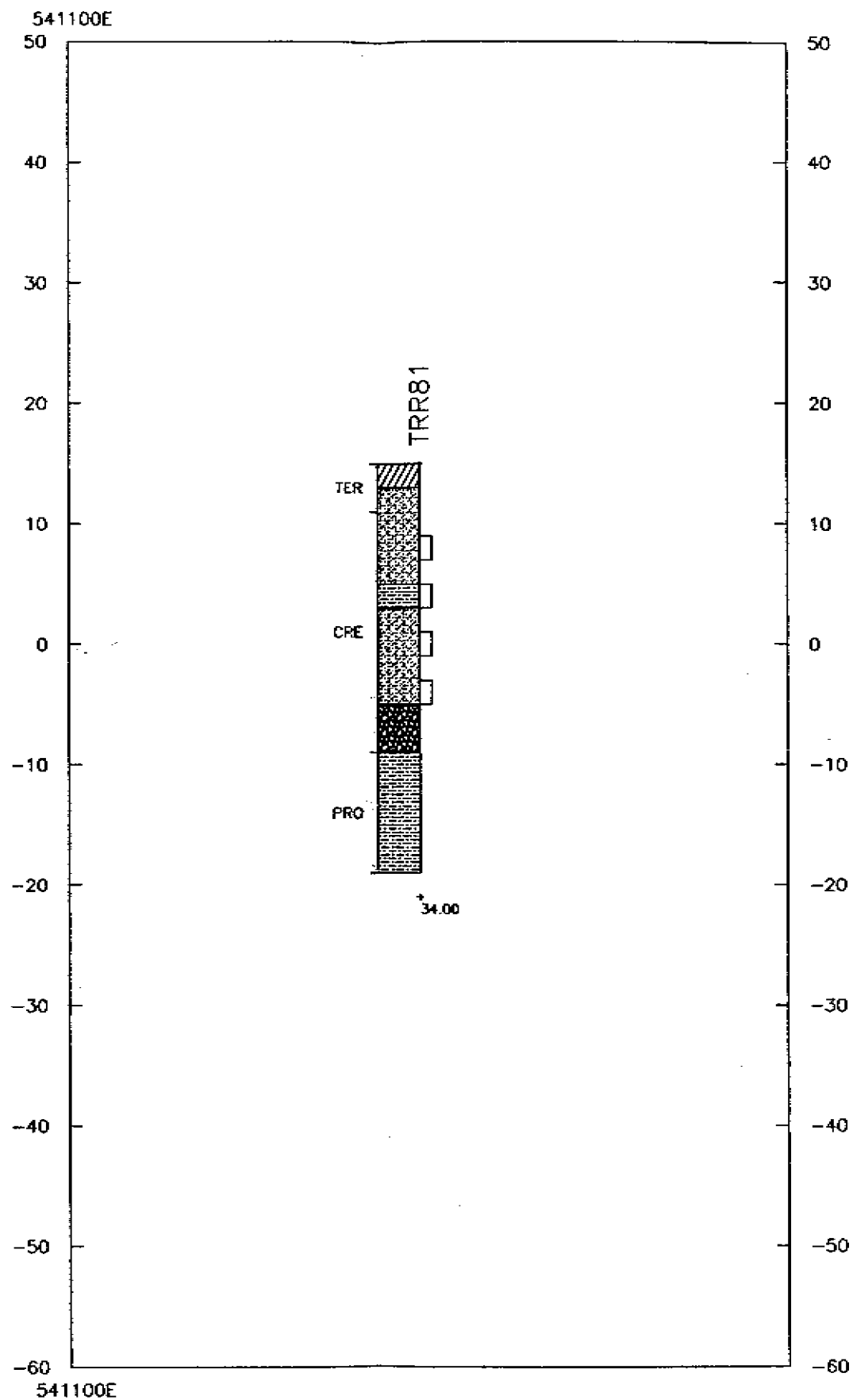
250.0 METRES



HOLLOW HISTOGRAM MN < 5

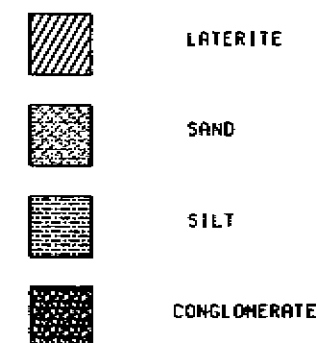
SOLID HISTOGRAM MN >= 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1983		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR79		
PREPARED BY: N. J. HARRISON	DATE: 25-10-84	CHECKED: M. J. HARRISON
DRAWN BY: N. J. HARRISON	REVISED:	
CHECKED:	APPROVED BY:	



LEGEND

GEOLOGY

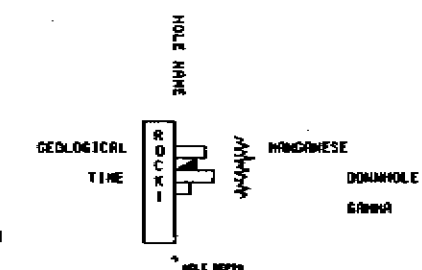


5 METRES

0.0

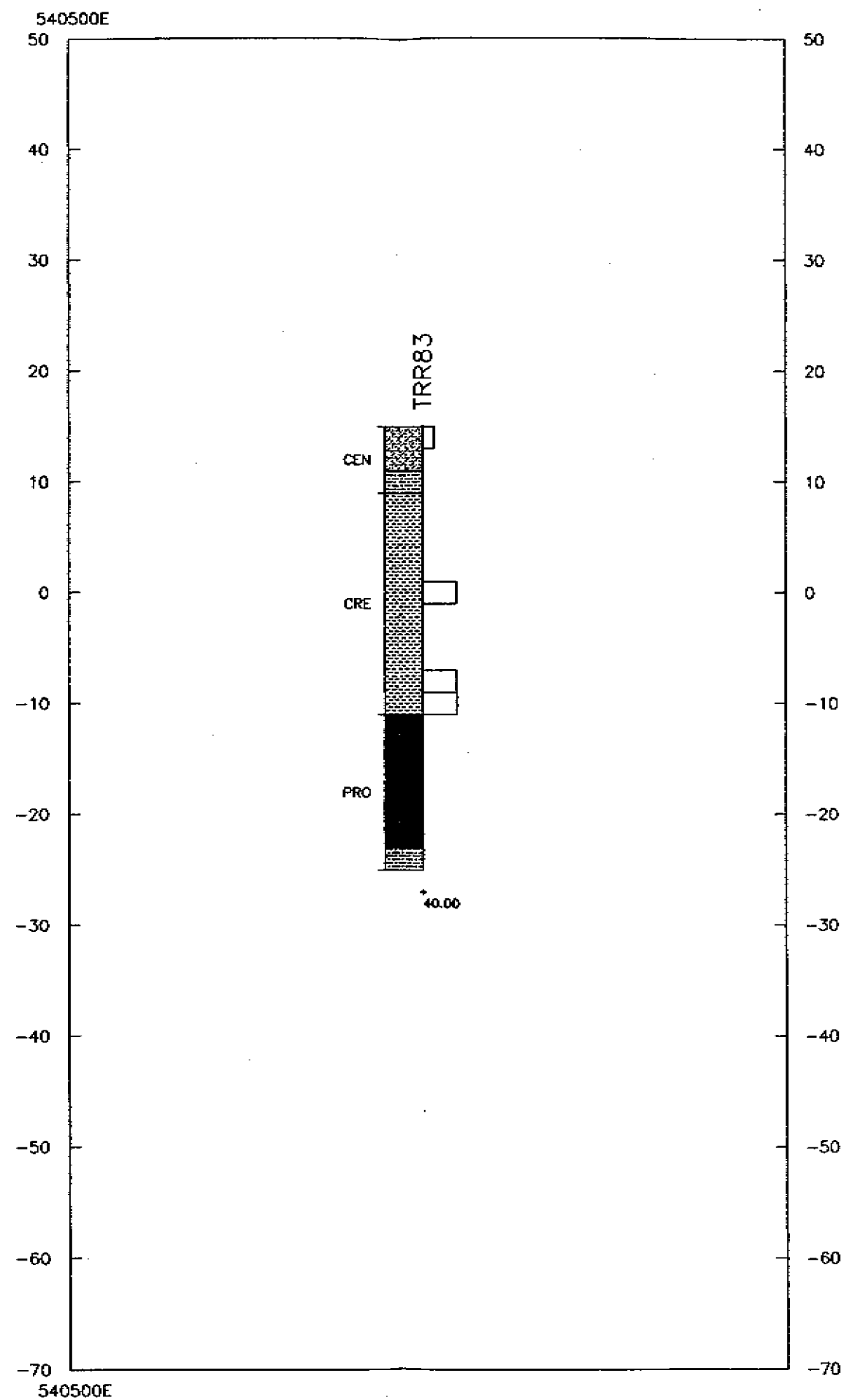
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0.0 HSCALE = 5000 250.0 METRES



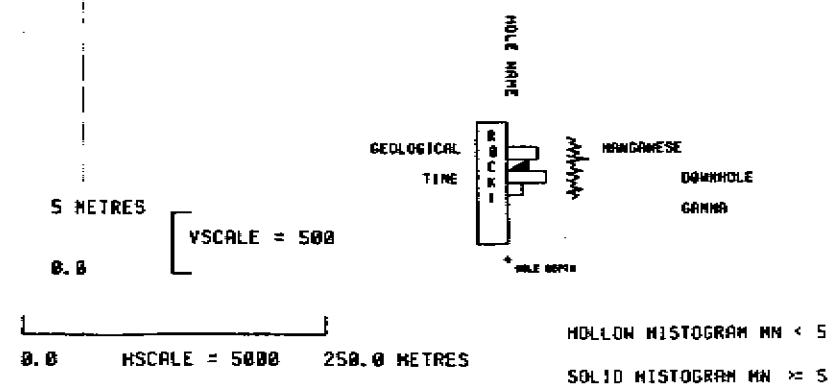
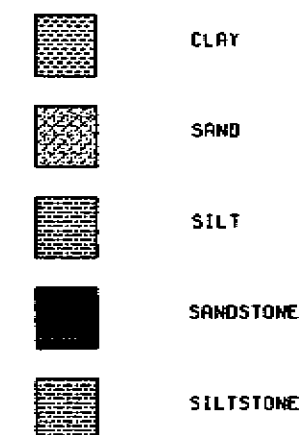
HOLLOW HISTOGRAM MN < 5
SOLID HISTOGRAM MN >= 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR81		
PREPARED BY: A. HINDS	DATE: 25-MAR-94	CHECKED: M. HINDS
DESIGNED BY: A. HINDS	REVISED:	
CHECKED:	APPROVED BY:	



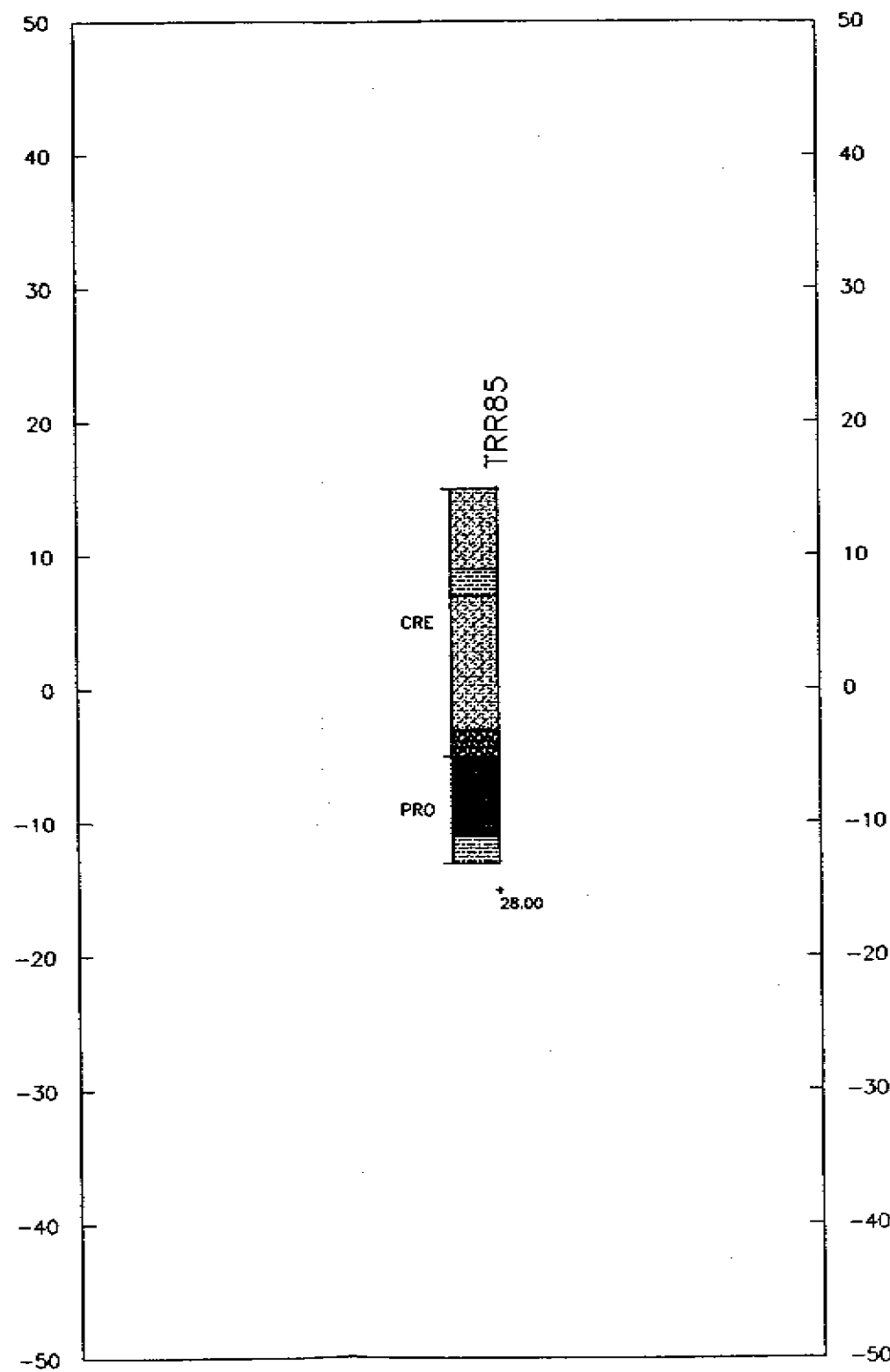
LEGEND

GEOLOGY



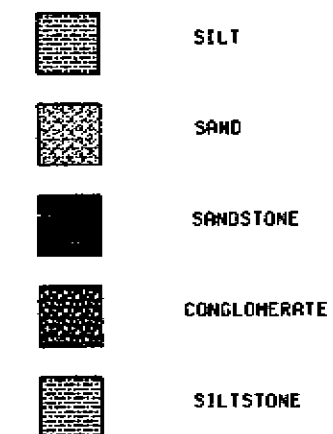
BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR83		
PREPARED BY: J. BROWN	DRAWN BY: J. BROWN	CHECKED BY: J. BROWN
DATE: 1.1.1993	DATE: 1.1.1993	DATE: 1.1.1993
CHECKED BY: J. BROWN	DATE: 1.1.1993	

8307600N



LEGEND

GEOLOGY

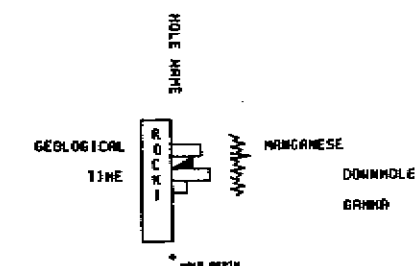


5 METRES

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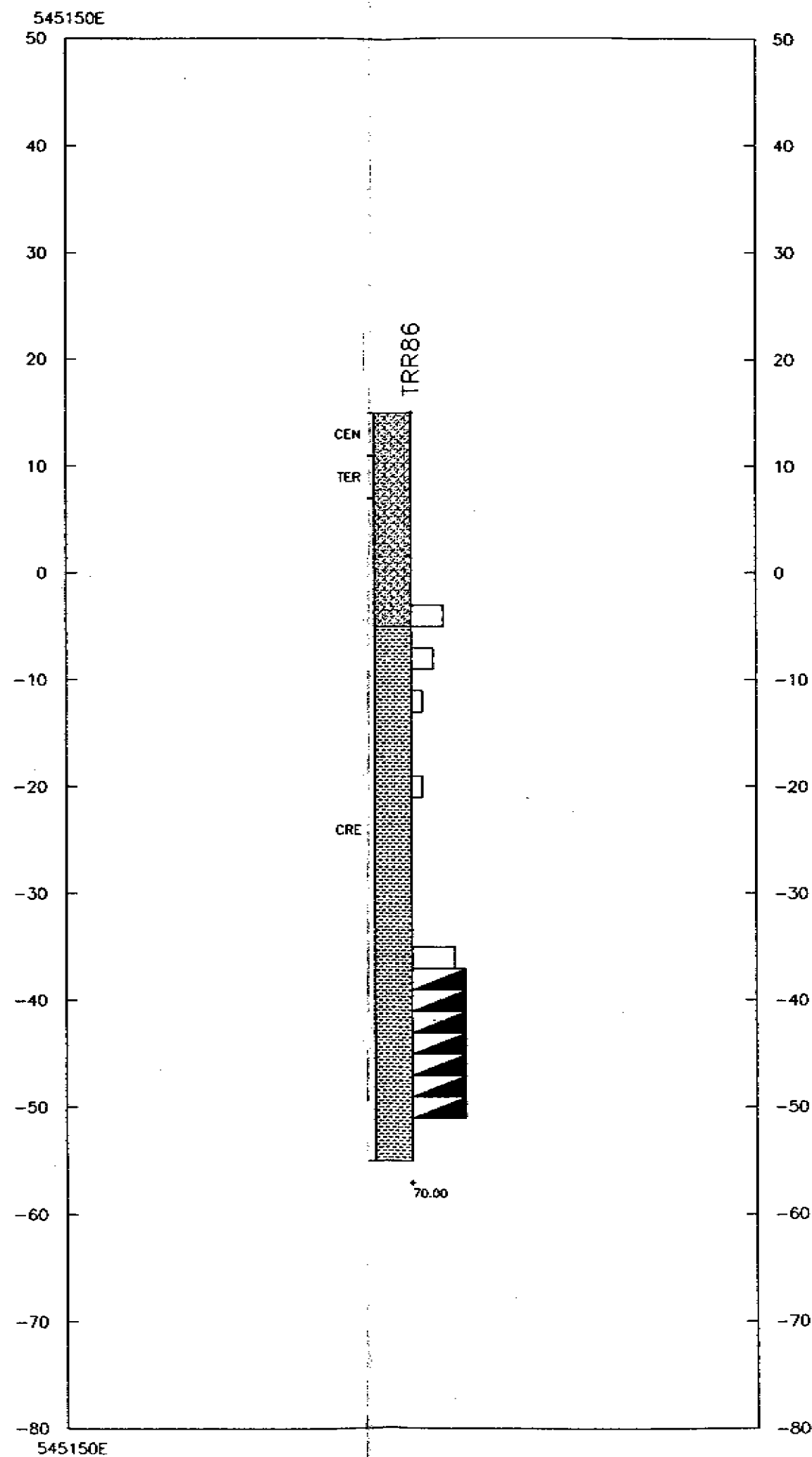
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0.0 HSCALE = 5000 250.0 METRES

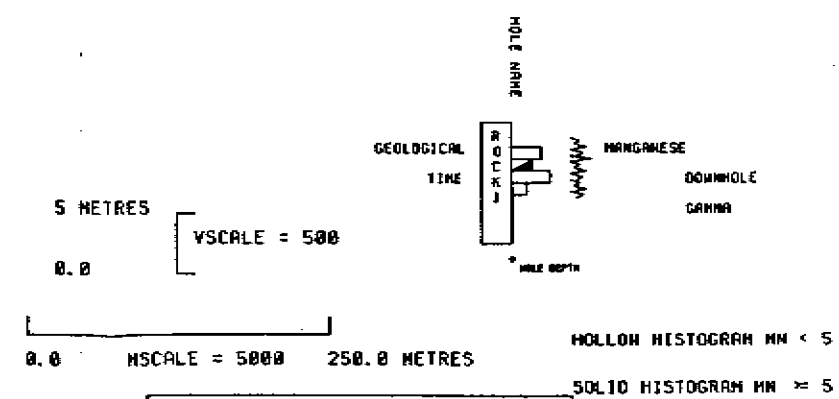
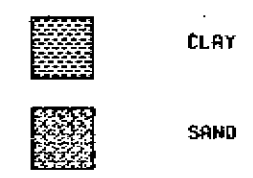


HOLLOW HISTOGRAM MN < 5
SOLID HISTOGRAM MN ≥ 5

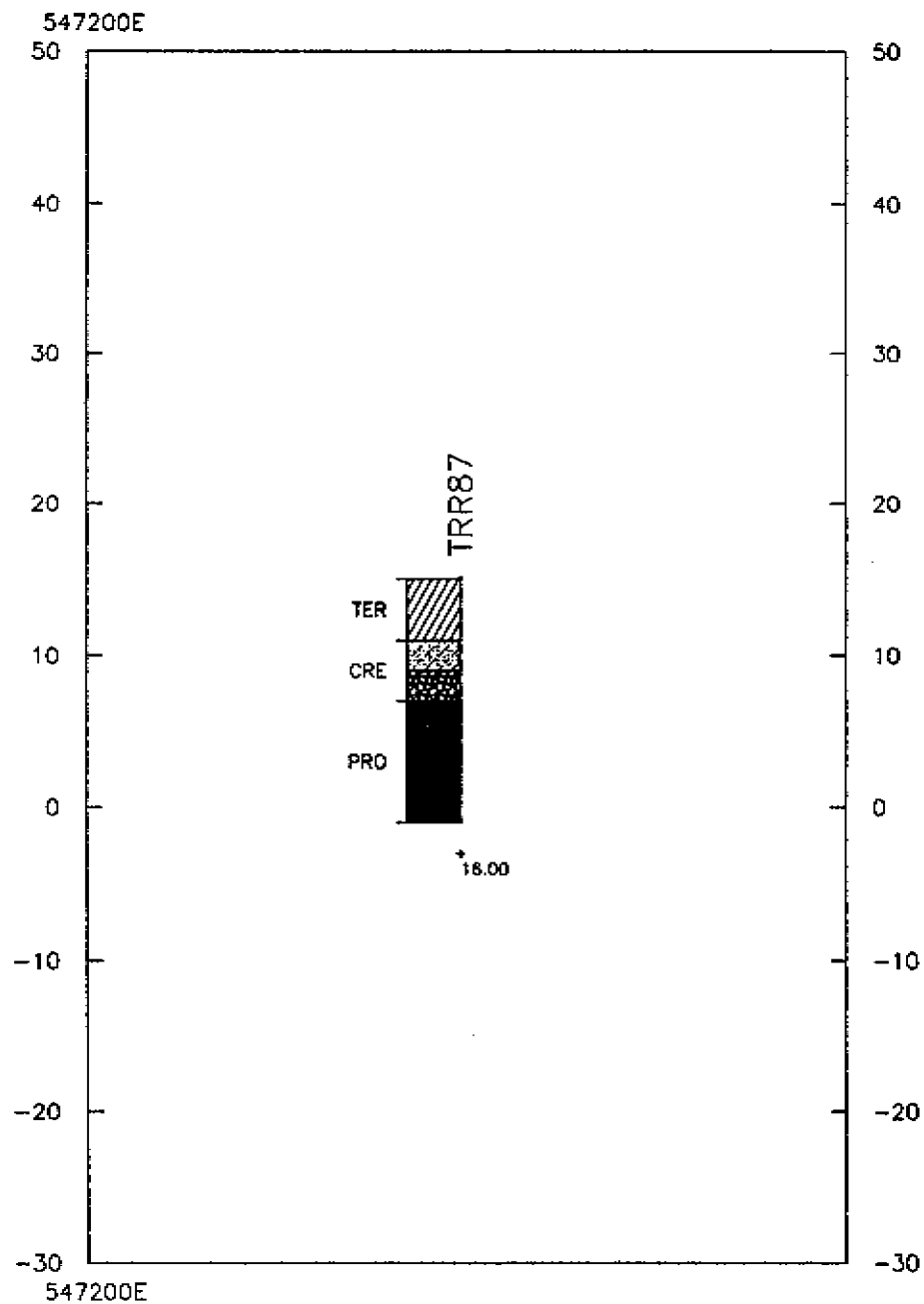
BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR85		
PREPARED BY: J. BARRIE	DATE: 28-MAR-94	CHECKED BY: J. BARRIE
DRAWN BY: J. BARRIE	REVISED BY:	
CHECKED BY:	APPROVED BY:	



LEGEND GEOLOGY



BHP MINERALS PTY. LTD.		
HEARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR86		
PREPARED BY: J. HARRISON	DATE: 20-09-94	CHECKED: J. HARRISON
DRAWN BY: J. HARRISON	REVISED:	
CHECKED:	DRAWING NO.:	



LEGEND

GEOLOGY



LATERITE



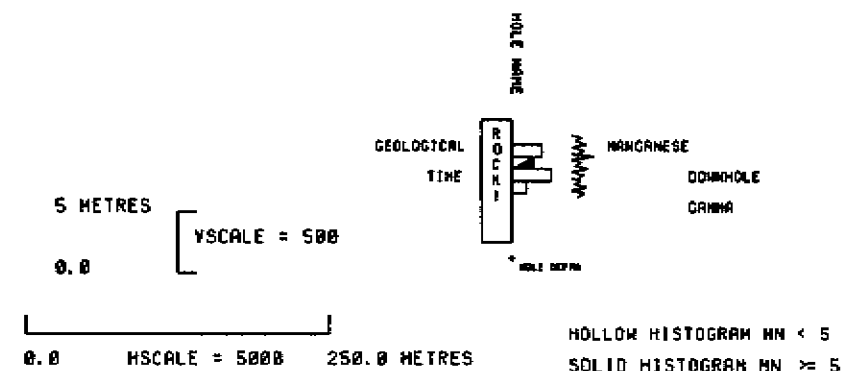
SAND



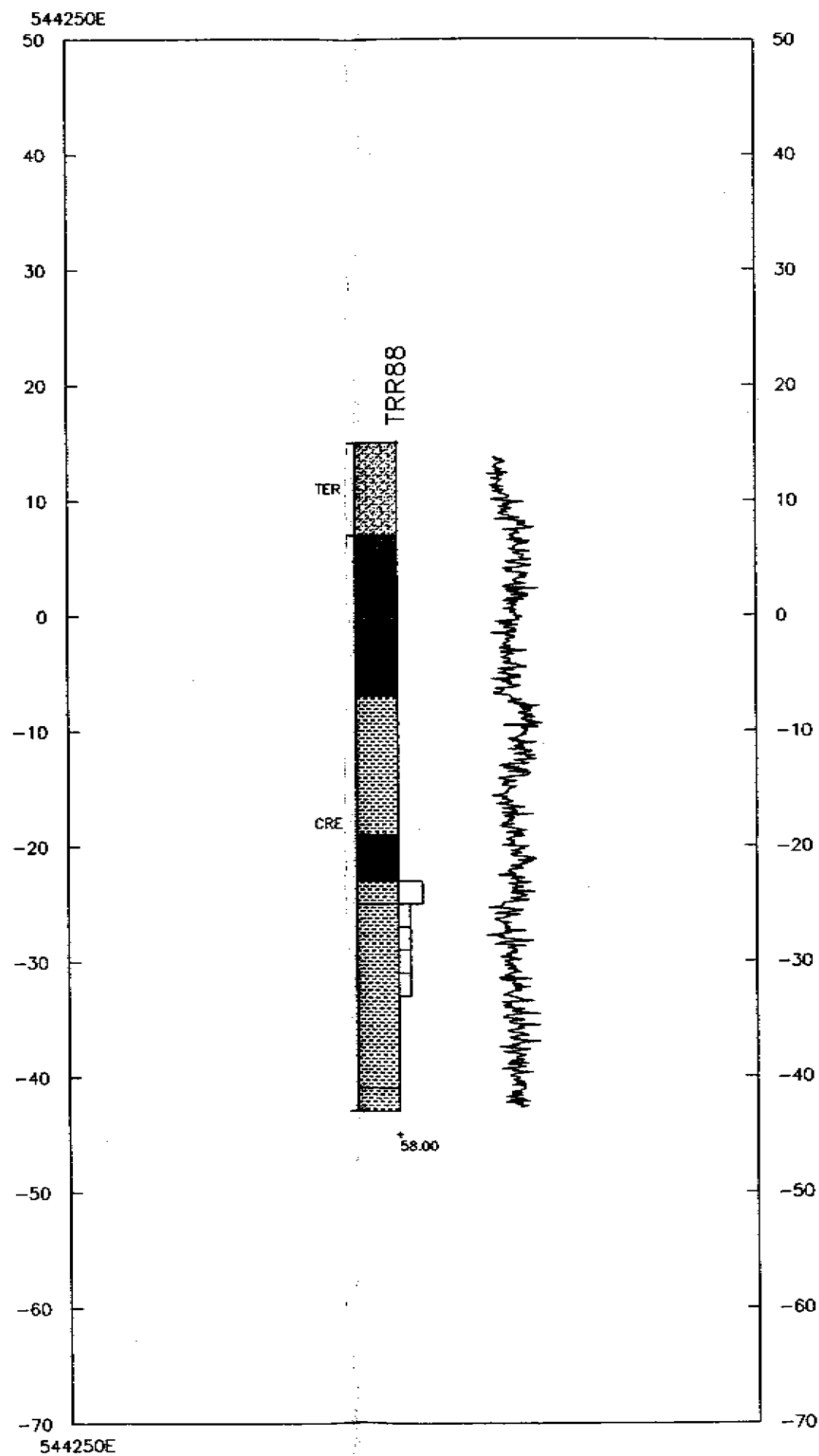
SANDSTONE



CONGLOMERATE

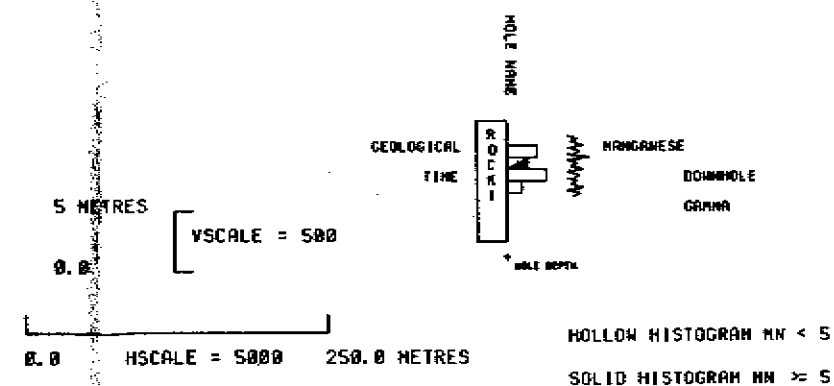
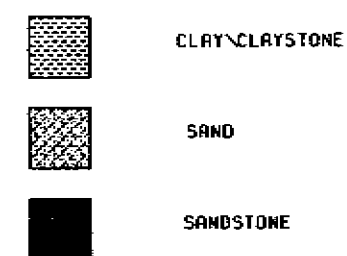


BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1983		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR87		
PREPARED BY: L. HARRISON	DATE: 28-08-83	CHECKED BY: M. HARRISON
REVIEWED BY: L. HARRISON	REVISIONS: 01	
CHECKED BY:	REVISIONS: 02	

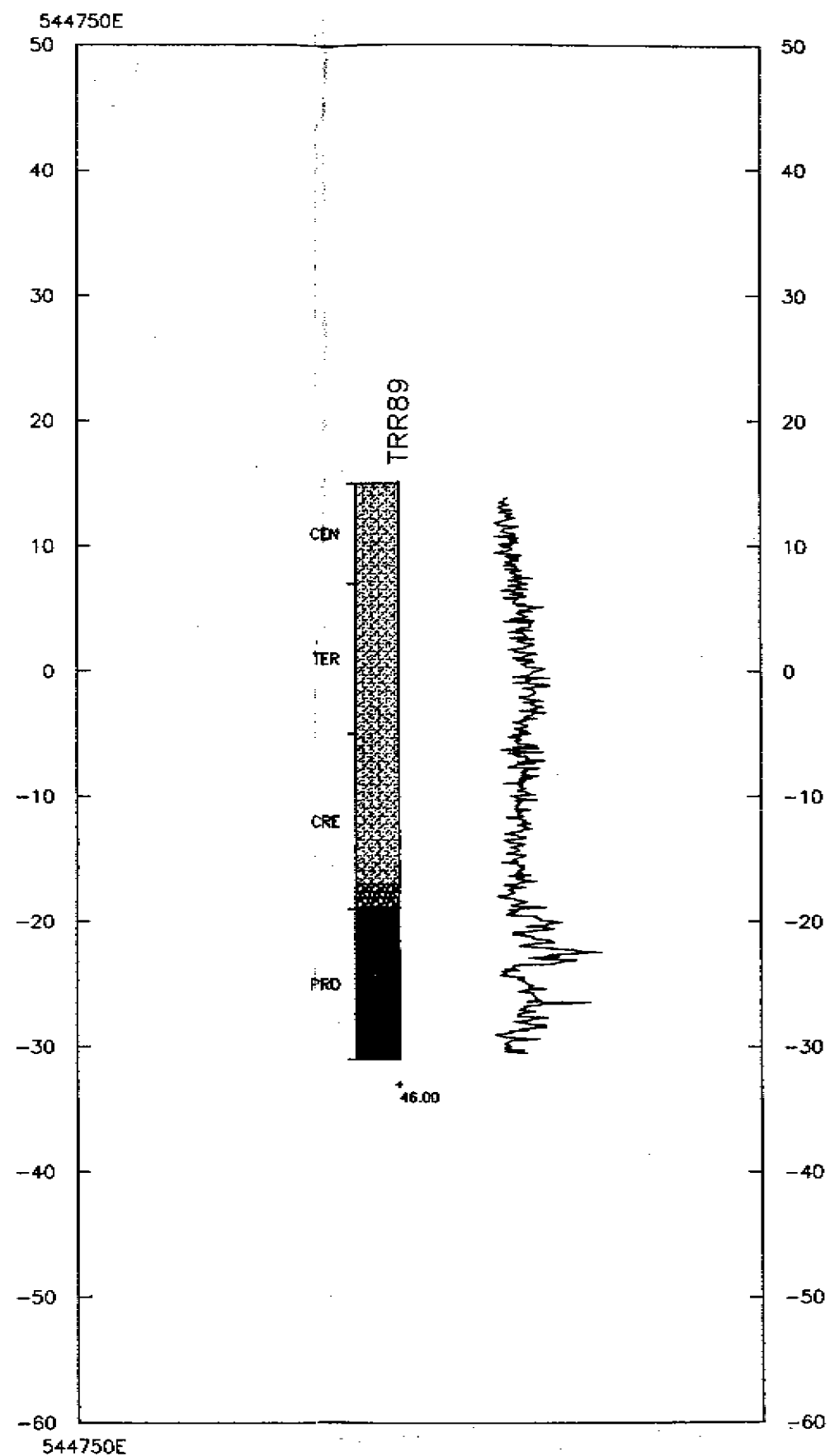


LEGEND

GEOLOGY

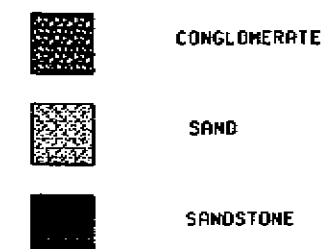


BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR88		
PREPARED BY: J. HARRISON	DATE: 20-04-94	CHECKED BY: M. HARRISON
DRAWN BY: M. HARRISON	REVISED BY:	
DATE: 20-04-94	REVISION NO.:	



LEGEND

GEOLOGY



5 METRES

0.0

VSCALE = 500

0.0

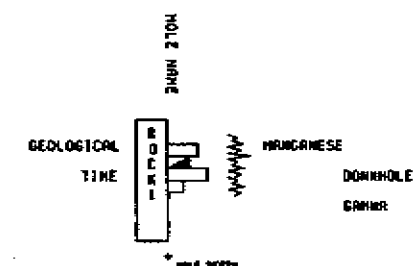
HSCALE = 5000

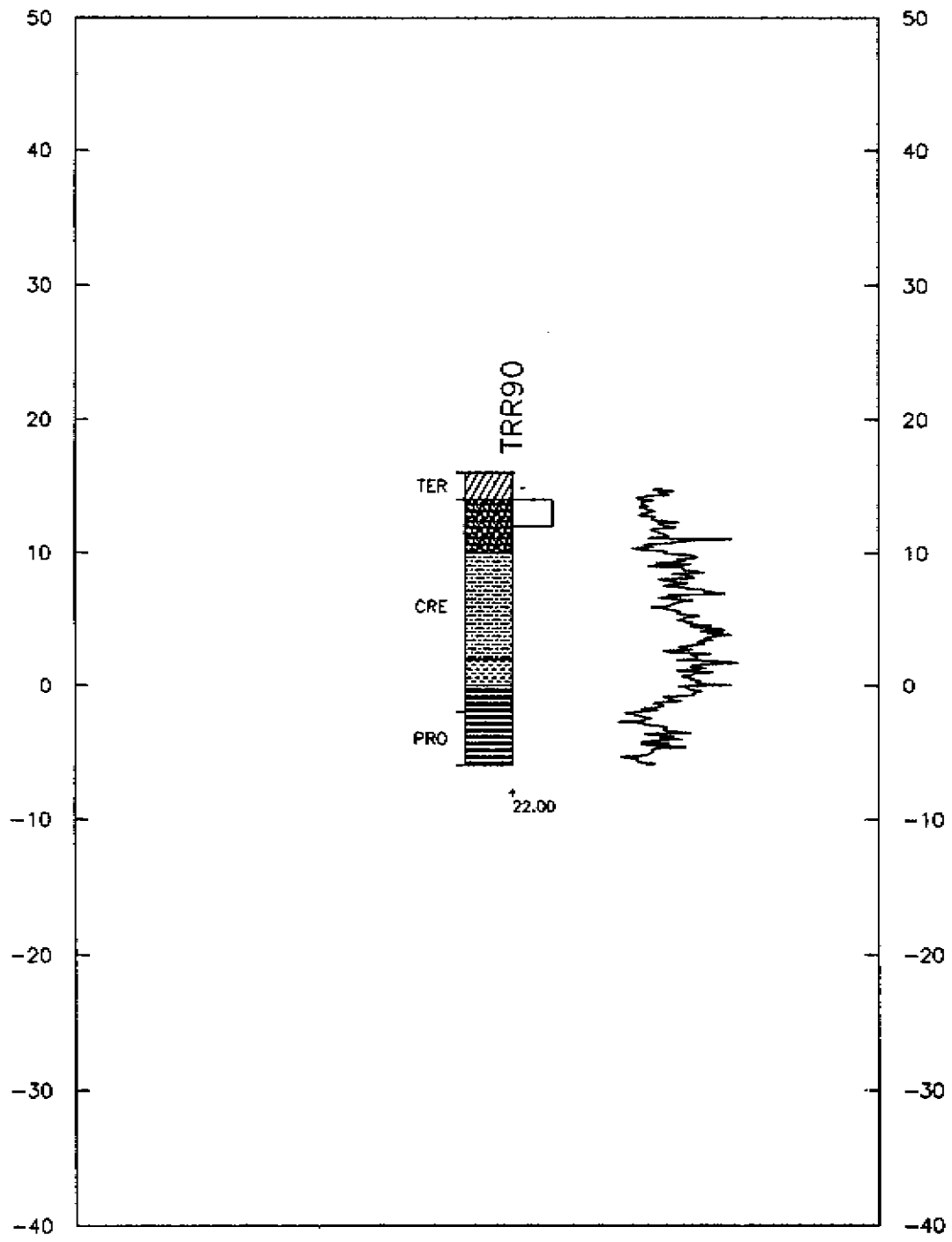
250.0 METRES

HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN > 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR89		
PREPARED BY: J. H. B. 12/93	DATE: 20-09-93	CHECKED BY: J. H. B.
DRAWN BY: J. H. B. 12/93	REVISION: 1	
CHECKED BY: J. H. B.	DRAWING NO.: 1	

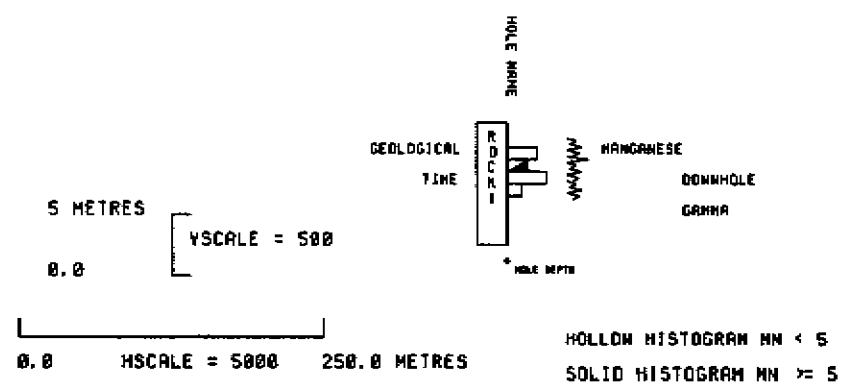




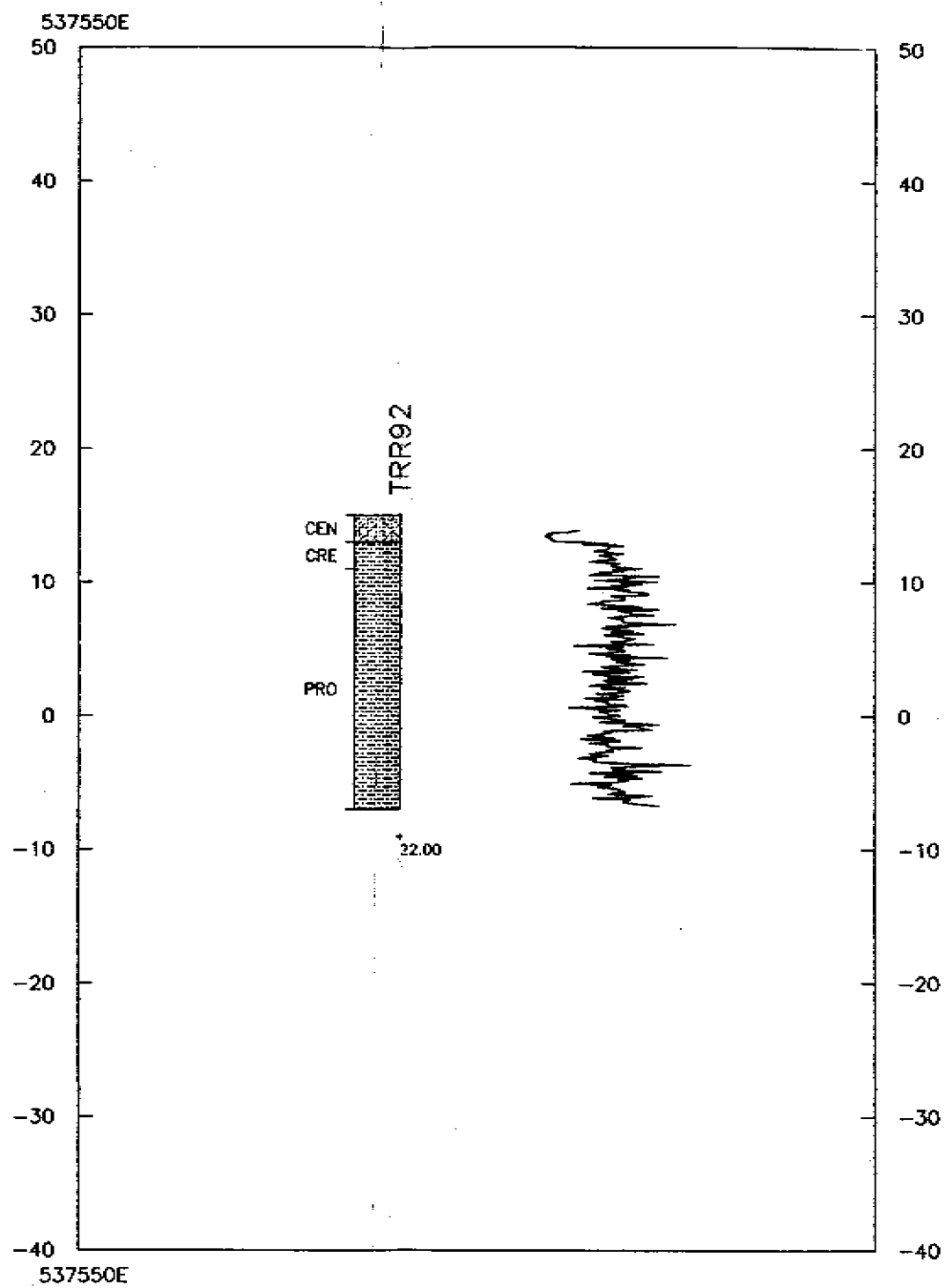
LEGEND

GEOLOGY

- CONGLOMERATE
- SOIL
- SILT
- CLAY
- CHERT



BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR90		
PREPARED BY: A. HARRISON	DATE: 20-MAR-94	CHECKED BY: M. HARRISON
REVIEWED BY: A. HARRISON	REVISION:	
CHECKED BY:	DRILLING NO.:	



LEGEND

GEOLOGY

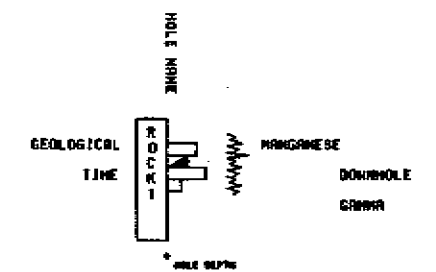


5 METRES

0.0

VSCALE = 500

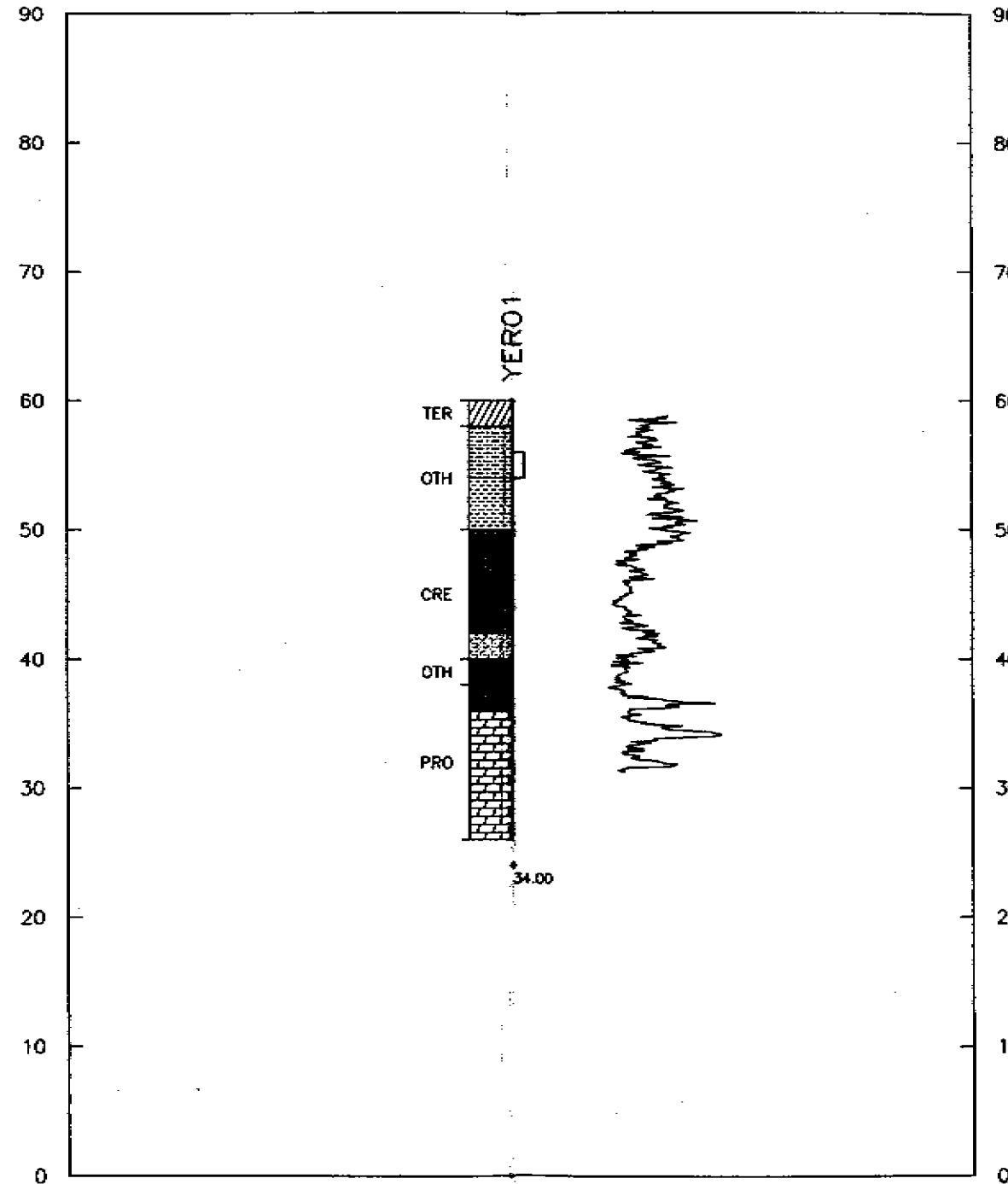
0.0 HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MM < 5
SOLID HISTOGRAM MM >= 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE TRR92		
PREPARED BY: J. HOBBS	DATE: 20-08-94	CHECKED BY: J. HOBBS
DESIGNED BY: J. HOBBS	REVISED BY: J. HOBBS	DATE: 20-08-94
CHECKED BY: J. HOBBS	DATE: 20-08-94	

573300E
90



573300E

LEGEND

GEOLOGY

-  SAND
-  SANDSTONE
-  CLAY
-  LATERITE
-  SILT
-  DOLOMITE

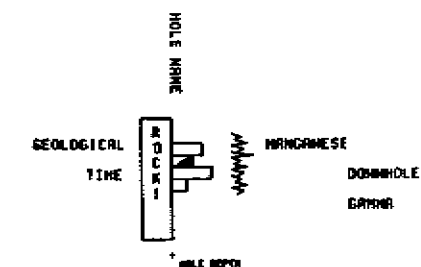
5 METRES

B. 0

VSCALE = 500

0.0

HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MM < 5
SOLID HISTOGRAM MM > 5

BMP MINERALS PTY. LTD.		
NEARTHER RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE YER01		
PROJECTED BY: M. J. BENTON	DATE: 10-08-94	CHECKED BY: M. J. BENTON
DRAWN BY: M. J. BENTON	REVISED BY:	
CHECKED BY:	DRAWING NO.:	

8273000N

80

70

60

50

40

30

20

10

0

-10

-20

-30

8273000N

YER03

CEN

CRE

OTH

PRO

76.00

80

70

60

50

40

30

20

10

0

-10

-20

-30

LEGEND

GEOLOGY



SAND



SANDSTONE



CLAY



DOLOMITE



SILT

5 METRES

0.0

YSCALE = 500

0.0

HSCALE = 5000

250.0 METRES

2000 3700

GEOLOGICAL
TIMEROCK
I

WELL DEPTH

MANGANESE
DOWNHOLE
GRAB

HOLLOW HISTOGRAM MM < 5

SOLID HISTOGRAM MM >= 5

BHP MINERALS PTY. LTD.

MCARTHUR RIVER DRILLING 1993

CARPENTARIA MANGANESE PROGRAM

DRILLHOLE YER03

PREPARED BY: J. W. T. 15000

DATE: 11-04-94

CHECKED BY: J. W. T. 15000

DRAWN BY: J. W. T. 15000

REVISED BY: J. W. T. 15000

CHECKED BY: J. W. T. 15000

DRAWN BY: J. W. T. 15000

80

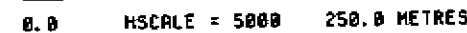


GEOLOGY



Abstract

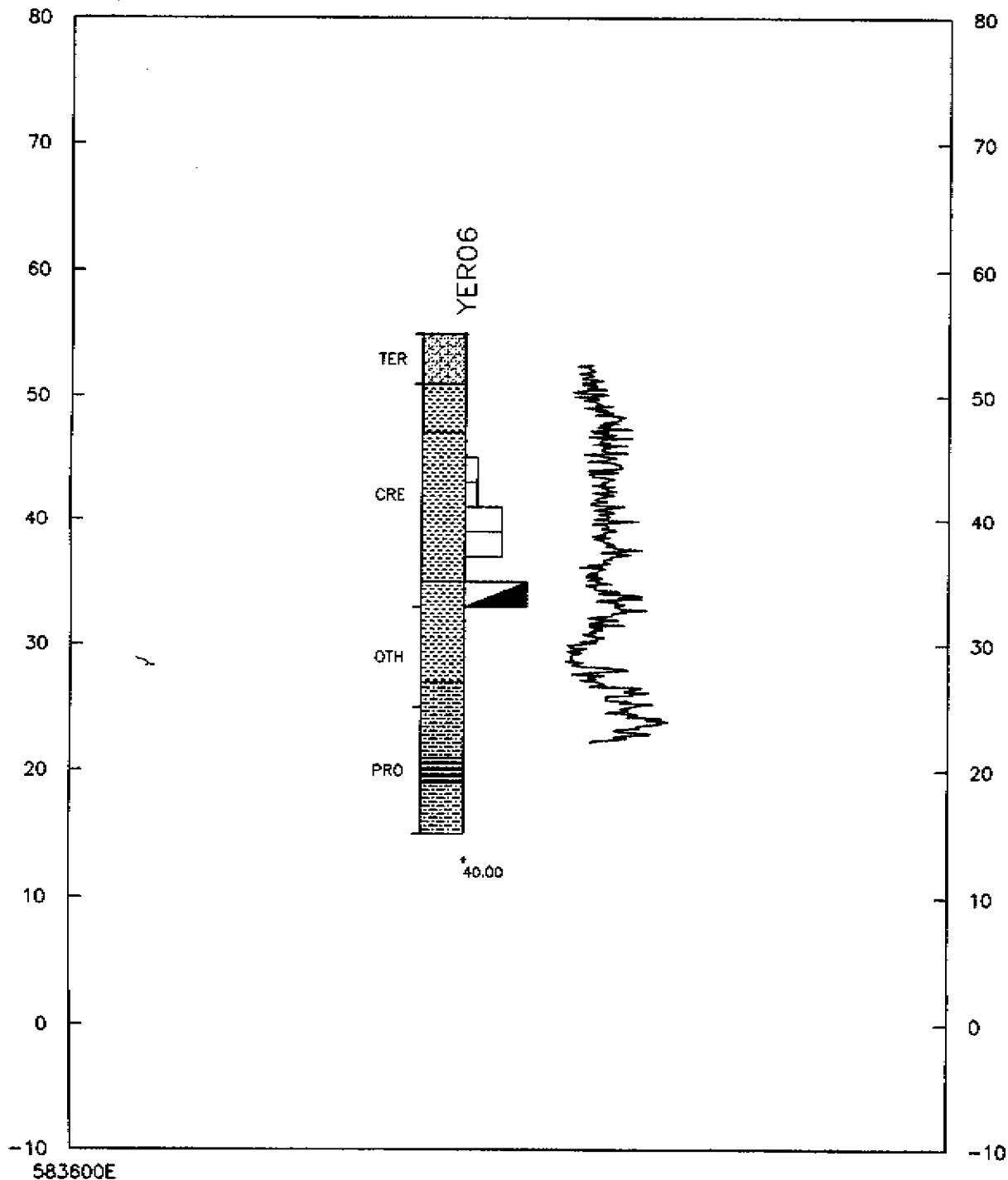
SILTSTONE



PRINCE - 3. 10015000	DE-17-100-01	CD-17-100-01
PRINCE - 3. 10015000	DE-17-100-01	
CD-17-100-01	DE-17-100-01	

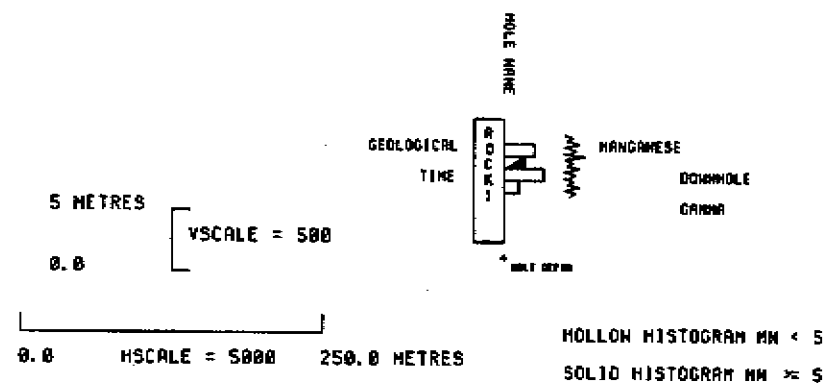
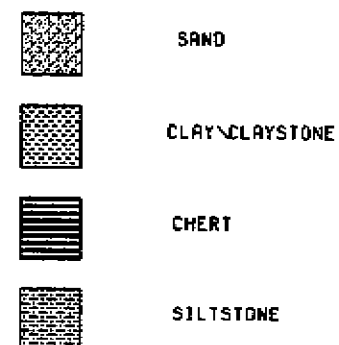
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PRINCE - 3. 10015000	DE-17-100-01	
CD-17-100-01	DE-17-100-01	

80



LEGEND

GEOLOGY



BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA HANGWESE PROGRAM		
ORILLHOLE YEARS		
PERIODS - 1. 1991-1992	DATE - 17-01-94	CENTER - ANTHONY
SHOWN - 1. 1991-1992	2511232	
CODES -	000100 00.0	

8272600N

80

70

60

50

40

30

20

10

0

-10

-20

-30

8272600N

YER04

CEN

CRE

OTH

58.00

80

70

60

50

40

30

20

10

0

-10

-20

-30

LEGEND

GEOLOGY



SAND



SANDSTONE



CLAY



DOLOMITE

5 METRES

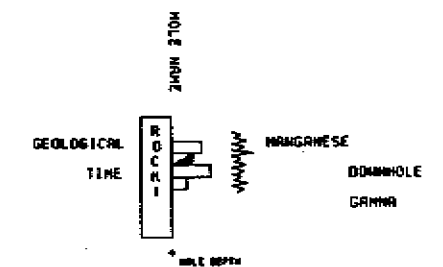
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HSCALE = 5000

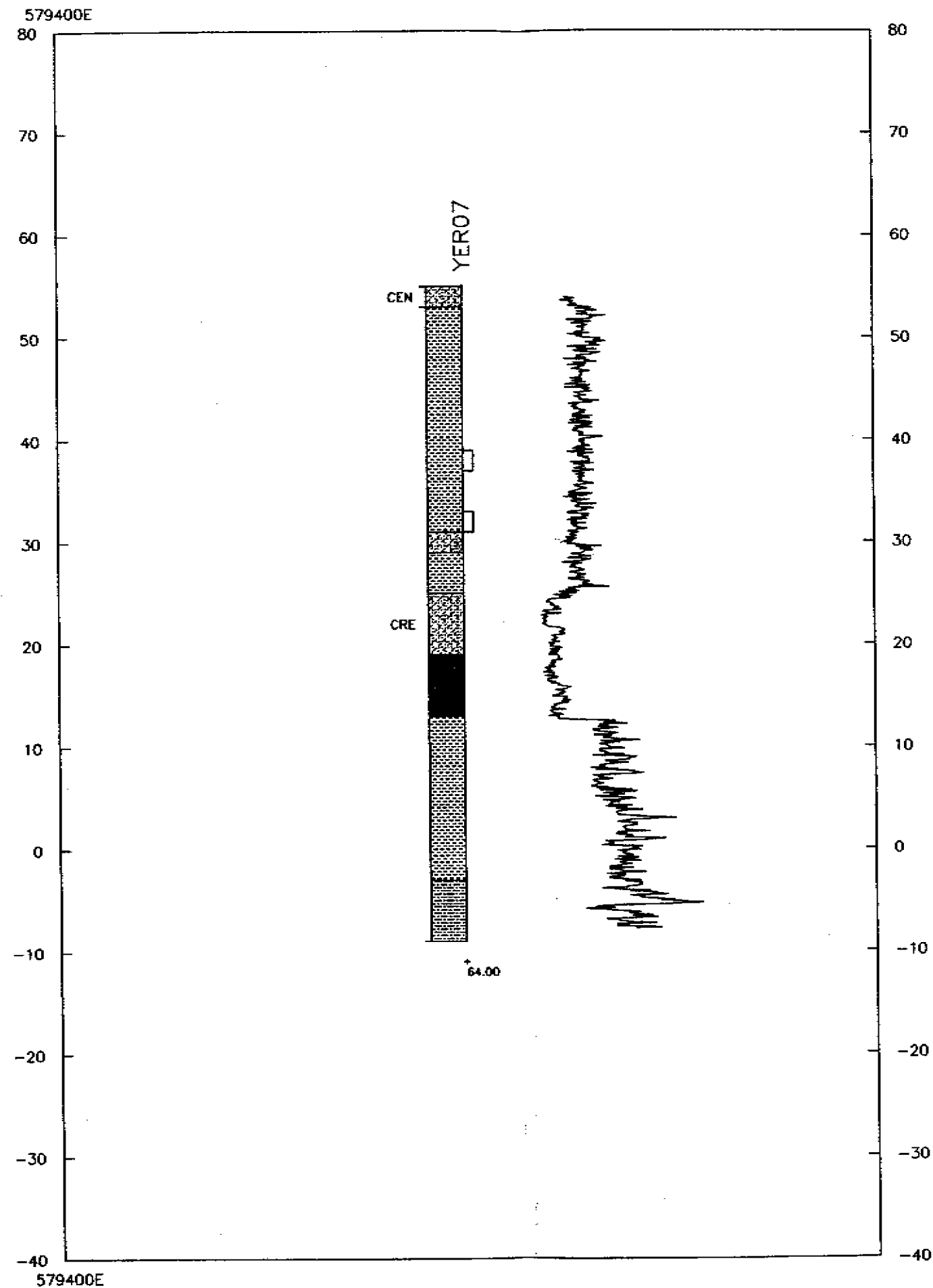
250.0 METRES



HOLLOW HISTOGRAM MN < 5

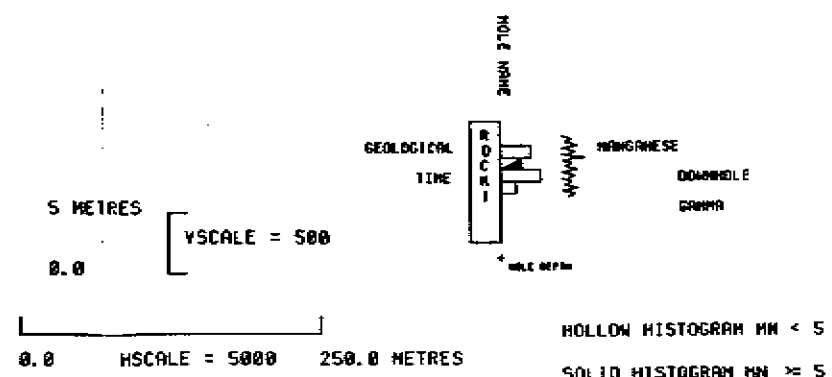
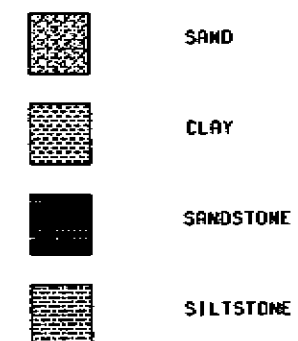
SOLID HISTOGRAM MN > 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE YER04		
PREPARED BY: J. WARD (2000)	DATE: 10-09-00	CHECKED BY: M. WARD
DESIGNED BY: M. WARD (2000)	REVISED BY:	
DRAWN BY: J. WARD	DRAWING NO.:	



LEGEND

GEOLOGY



BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA WANGANESE PROGRAM		
DRILLHOLE YER07		
PREPARED BY: M. M. M. M.	DATE: 17-08-94	CHECKED: M. M. M. M.
DRAWN BY: M. M. M. M.	REVISION:	
CHECKED BY:	REVISION NO.:	

572500E

70

60

50

40

30

20

10

0

-10

-20

-30

-40

-50

572500E

YER08

CEN

CRE

PRO

* 58.00

70

60

50

40

30

20

10

0

-10

-20

-30

-40

-50

LEGEND

GEOLOGY



SAND



CLAY/CLAYSTONE



SANDSTONE



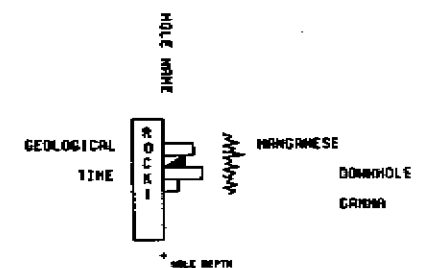
CHERT

5 METRES

0.0

VSCALE = 500

0.0 HSCALE = 5000 250.0 METRES



HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN > 5

BHP MINERALS PTY. LTD.

MCARTHUR RIVER DRILLING 1993

CARPENTARIA MANGANESE PROGRAM

DRILLHOLE YER08

PREPARED BY: J. WILSON	DATE: 17-02-93	CHECKED BY: M. WILSON
DESIGNED BY: J. WILSON	REVISED BY:	
CHECKED BY:	DRILLED BY:	

8291200N

70

60

50

40

30

20

10

0

-10

-20

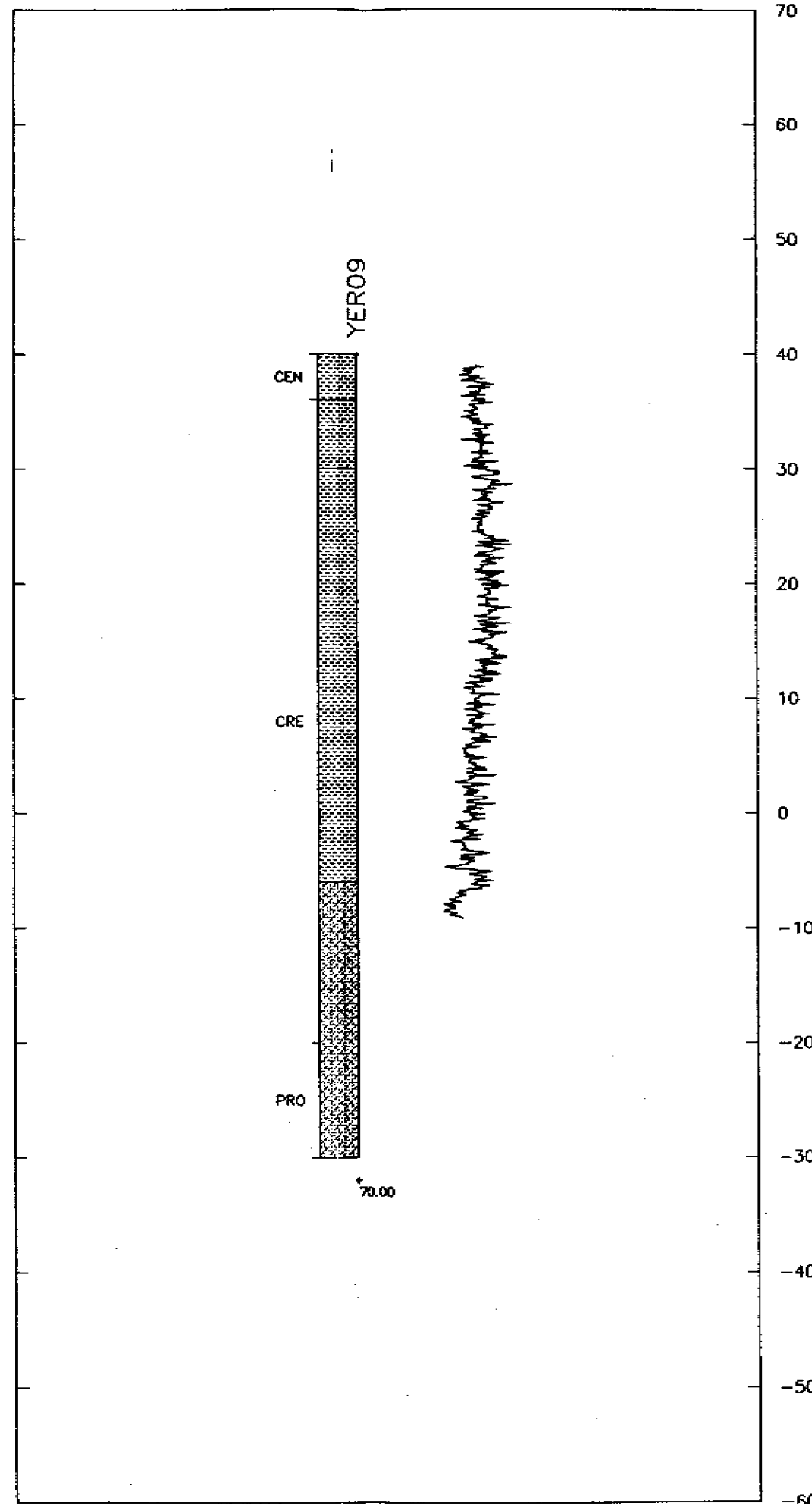
-30

-40

-50

-60

8291200N



70

60

50

40

30

20

10

0

-10

-20

-30

-40

-50

-60

LEGEND

GEOLOGY



SAND



CLAY/CLAYSTONE

5 METRES

0.0

VSCALE = 500

0.0

HSCALE = 5000

250.0 METRES

GEOLOGICAL
TIME

HOLE NUMBER

HOLE DEPTH

MANGANESE
DOWNHOLE
GRAIN

HOLLOW HISTOGRAM MN < 5

SOLID HISTOGRAM MN > 5

BHP MINERALS PTY. LTD.		
MCARTHUR RIVER DRILLING 1993		
CARPENTARIA MANGANESE PROGRAM		
DRILLHOLE YER09		
PREPARED BY: J. HARRISON	DATE: 17-MAR-94	CHECKED BY: J. HARRISON
DESIGNED BY: J. HARRISON	REVIEWED BY: J. HARRISON	
DRAWN BY: J. HARRISON	DATE: 17-MAR-94	

APPENDIX 5

Ground TEM Data

Sounding 100100 : Ver 2

□model

+field

1e3

100

10

time (msec)

.1

1

10

100

t
r
u
e

a
p
p
r
e
s

SOUNDING: 100100 : Vers 2
Y100/100 25 Hz

~~10.5 ohm.m~~ ~~5.5 m~~ 5.6 m.

* 90.5 ohm.m * 247 m.

-----W 243 m
(8836 ohm.m)

STD ERR= 3.6% : S= 3.6

100100A

~~10.5~~

* 90.5

(8836)

S= 4%
S= 3.6

Sounding 100100 : Ver c

1e3

□ model

+ field

100

10

time (msec)

.1

1

10

100

t
r
u
e
a
p
p
r
e
s

SOUNDING: 100100 : Vers c
 Y100/100 6.25 Hz loop corrected

100100A

* 57.3 ohm.m	* 126 m
--------------	---------

126 m.

* 57.3

* 200 ohm.m	* 953 m.
-------------	----------

* 200

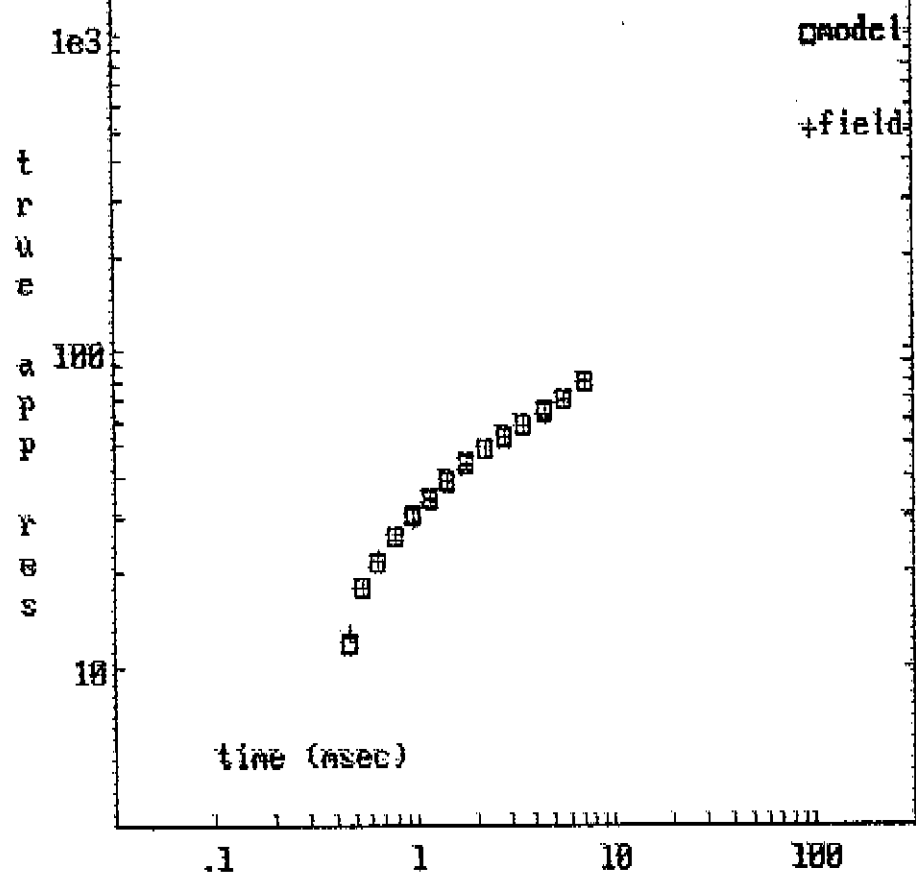
* .46 ohm.m	* 1070 m.
-------------	-----------

* .46

STD ERR= 3.1% : S= / S

E= 3%
 S= 75

Sounding 100102 : Ver 1



SOUNDING: 100102 : Vers 1
Y100/102 25 Hz

~~* 8.0 ohm m * 17.8 m 5.8 m~~

* 109 ohm m * 596 m

----- * 802 m.
6541 ohm m

STD ERR= 1.6% : S= 7 S

100102A
~~* 8.0~~

* 109

6541

E= 2%
S= 7S

Sounding 100102 : Ver c

1e3

□model

+field

t
r
u
e

100

a
p
p

r
e
s

10

time (msec)

.1

1

10

100

+

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SOUNDING: 100102 : Vers c
Y100/102 6.25 Hz loop corrected

* 10.0 ohm.m * 25.3 m. 25.3 m.

(266 ohm.m) * 210 m.

_____ * 236 m

42.2 ohm.m 136 m.

_____ * 371 m

* 2923 ohm.m

STD ERR= 3.6% : S= / 3

100102A

* 10.0

(266)

42.2

* 2923

E= 4%

S= 75

Sounding 100104 : Ver 2

1e3

□model

+field

t
r
u
e

100

a
p
p
r
e
s

10

Time (msec)

.1

1

10

100

t
r
u
e
a
p
p
r
e
s

SOUNDING: 100104 : Vers 2
Y100/104 25 Hz

~~* 2.0 ohm.m * 0.8 m~~ 6.3 m.

100104A
~~* 2.0~~

* 71.6 ohm.m * 709 m.

* 71.6

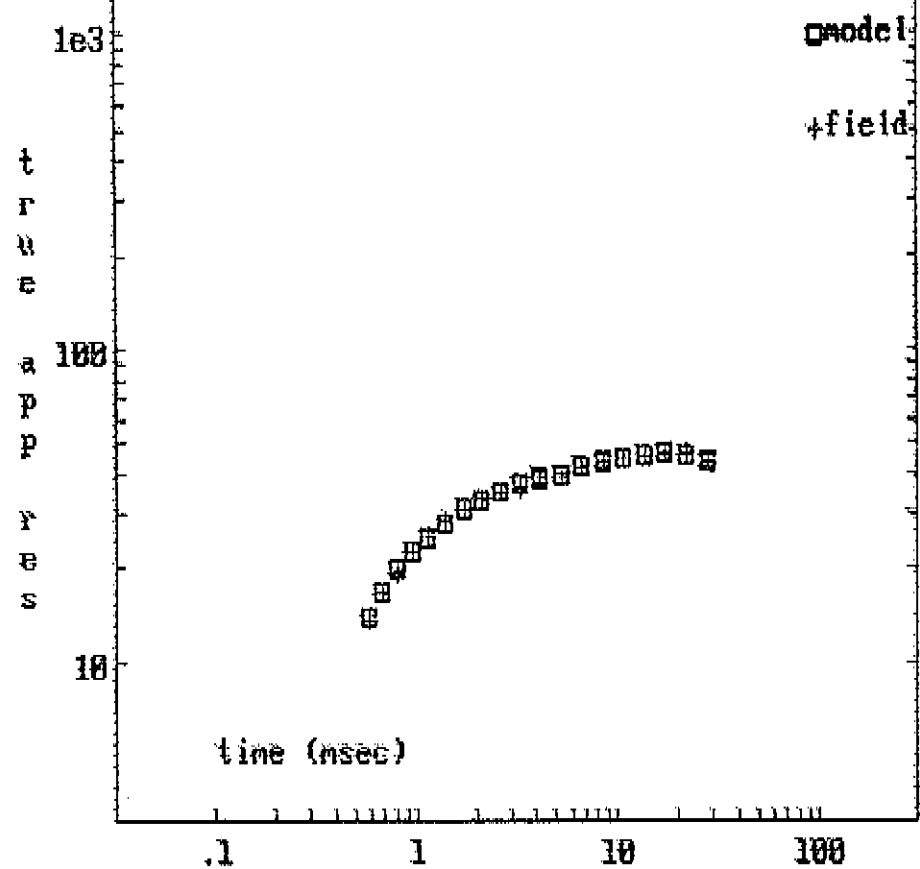
_____* 716 m.
(6537 ohm.m)

(6537)

STD ERR= .8% : S= 12 S

E= 1%
S= 125

Sounding 180184 : Ver c



100504

$\begin{pmatrix} 7 & 0 \\ 0 & 1 \end{pmatrix}$

* 49. 6

412 204
3 = 205

Sounding 100106 : Ver 1

model

+field

t
r
a
p
p
e
s

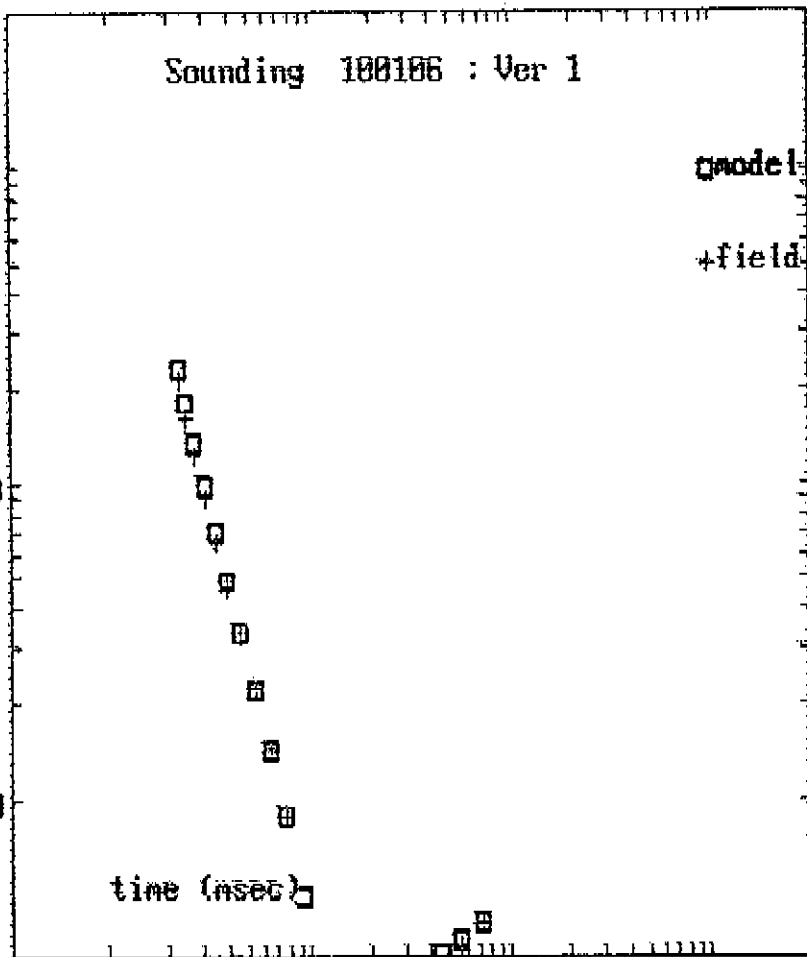
1e3

100

10

time (msec)

.1 1 10 100



SOUNDING: 100106 : Ver5 1
Y100/106 25 Hz

* 3.0 ohm.m

* 84.8 m.

(140 ohm.m)

* 84.8 m.

STD ERR= 9.2% : S= 29 S

100106A

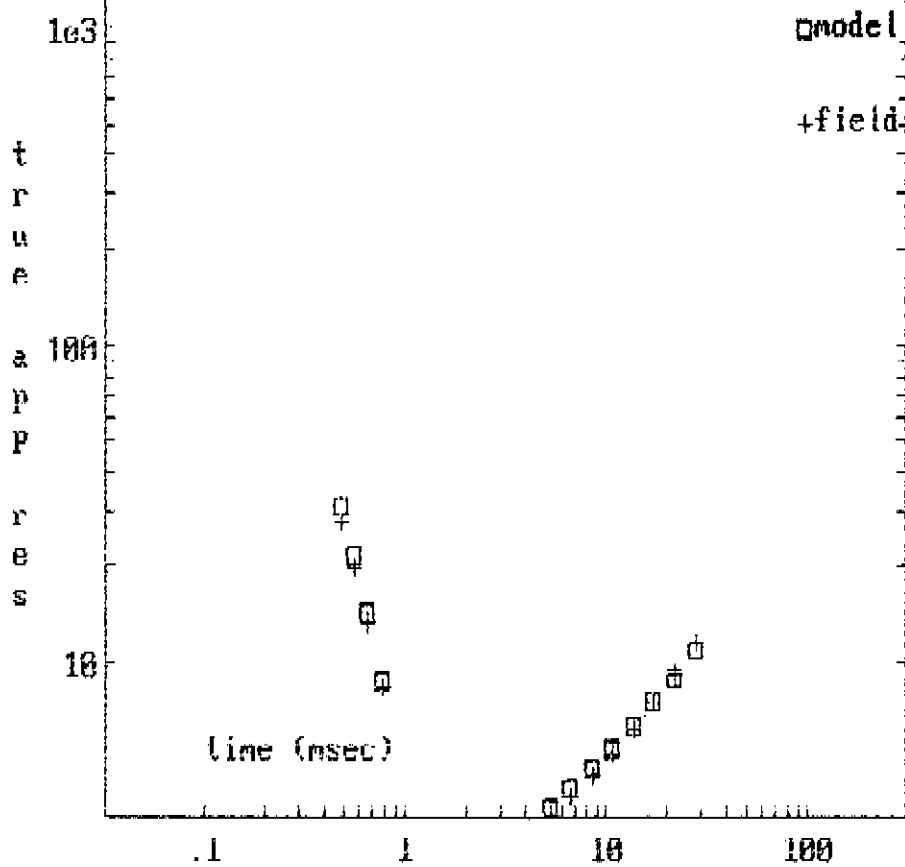
* 3.0

(140)

E= 9%

S= 295

Sounding 100106 : Vcr 2



SOUNDING: 100105 : Vers 2
Y100/105 5.25 Hz

* 2.6 ohm.m	* 55.1 m.
(59.9 ohm.m)	(50.1 m.)
998 ohm.m	115 m.

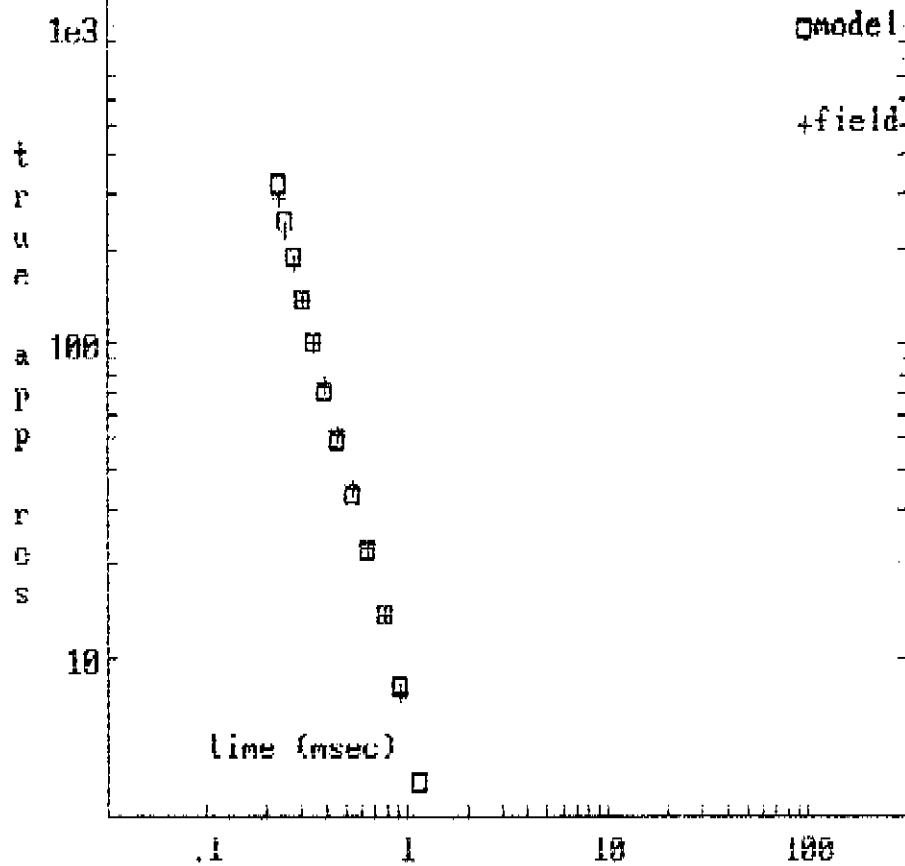
STD ERR= 5.0% : S= 28 S

100105A

* 2.6
(69.9)
999

E= 6%
S= 285

Sounding 100108 : Ver 1



SOUNDING: 100108 : Vers 1
Y100/108 25 Hz

* 1.8 ohm.m	* 64.0 m.
* 140 ohm m	* 64.0 m.

STD ERR= 4.0% : S= 99 S

100108A

* 1.8
* 140

E= 5%
S= 335

Sounding 100108 : Ver 2

1e3

□ model

+ field

100

10

time (msec)

.1

1

10

100

t
r
u
e
a
p
p
r
e
s

SOUNDING: 100108 : Vers 2
Y100/108 6.25 Hz

* 1.8 ohm.m	* 55.6 m.
(251 ohm.m)	* 55.6 m.

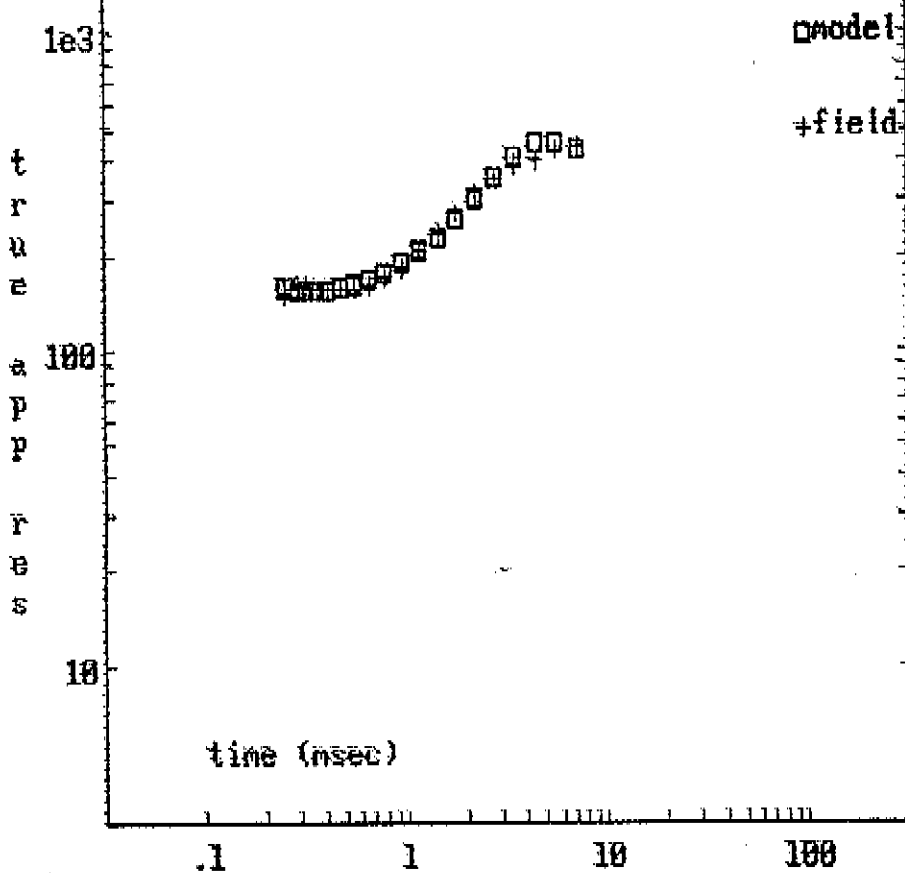
STD ERR= 2.8% : S= 31 S

100108A

* 1.8
(251)

E= 5%
S= 31S

Sounding 192100 : Ver 2



SOUNDING: 102100 : Vers 2
Y102/100 25 Hz

* 161 ohm.m * 248 m.
-----* 248 m.

1238 ohm.m * 820 m.

11.3 ohm.m * 1088 m.

STD ERR= 4.8% : S= 2 S

102100A

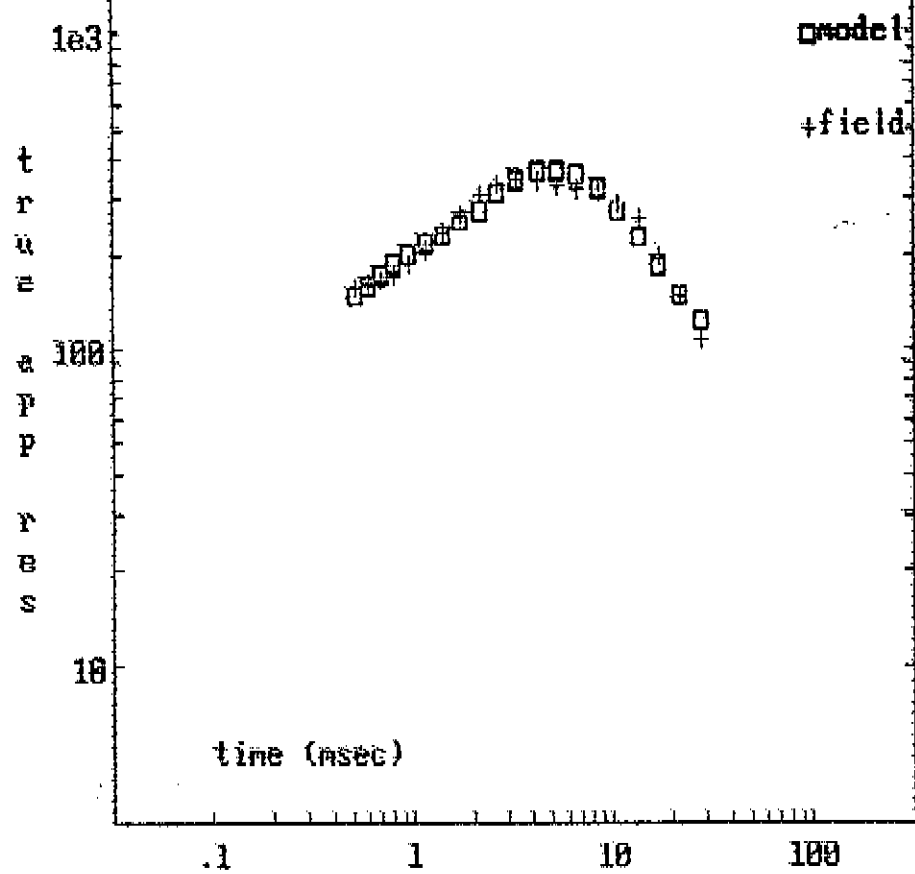
* 161

1238

11.3

E= 5%
S= 25

Sounding 102100 : Ver c



SOUNDING: 102100 : Vers c
Y102/100 6.25 Hz loop corrected

102100A

~~* 34.1 ohm m~~ ~~* 35.4 m~~ 35.4 m.

~~* 34.1~~

* 416 ohm m * 1190 m

* 416

~~.....~~ * 1225 m.
* 11.2 ohm.m

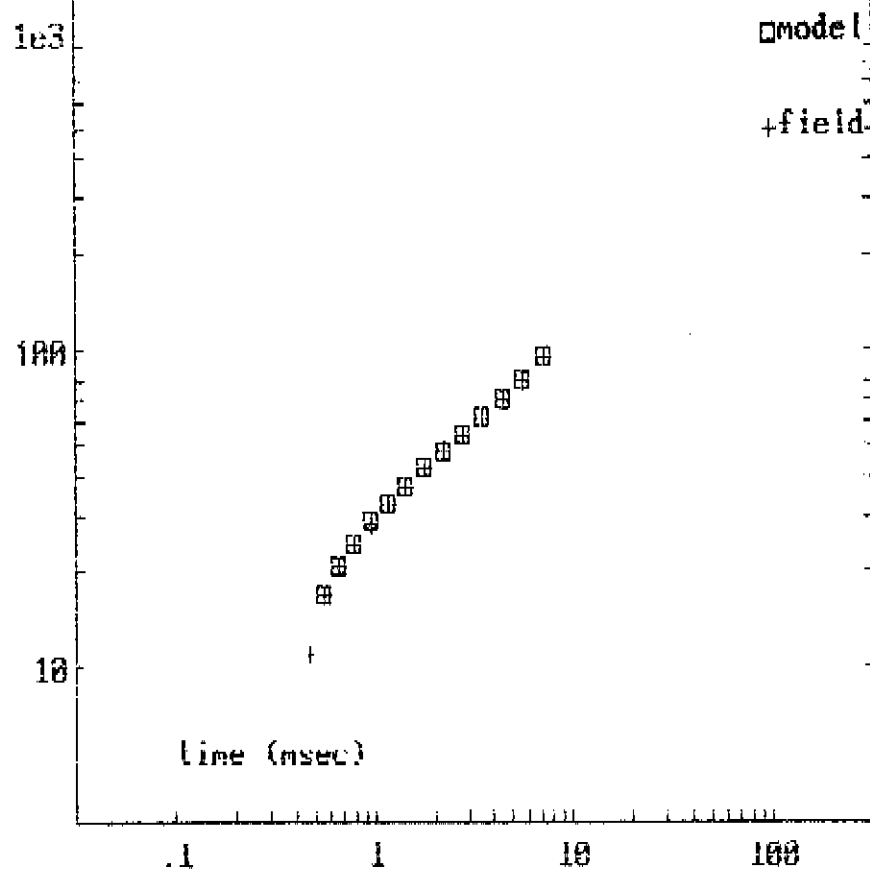
* 11.2

STD ERR=13.7% : S= 4.6

E=14%

S= 45

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 r
 e
 s



SOUNDING: 102102 : Vers 1
Y102/102 25 Hz

~~2.8 ohm.m~~ ~~7.4 m~~ 7.4 m.

* 119 ohm.m * 374 m.

_____ * 382 m.
(6570 ohm.m)

STD ERR= 1.7% : S= 5 S

102102A

~~2.8~~

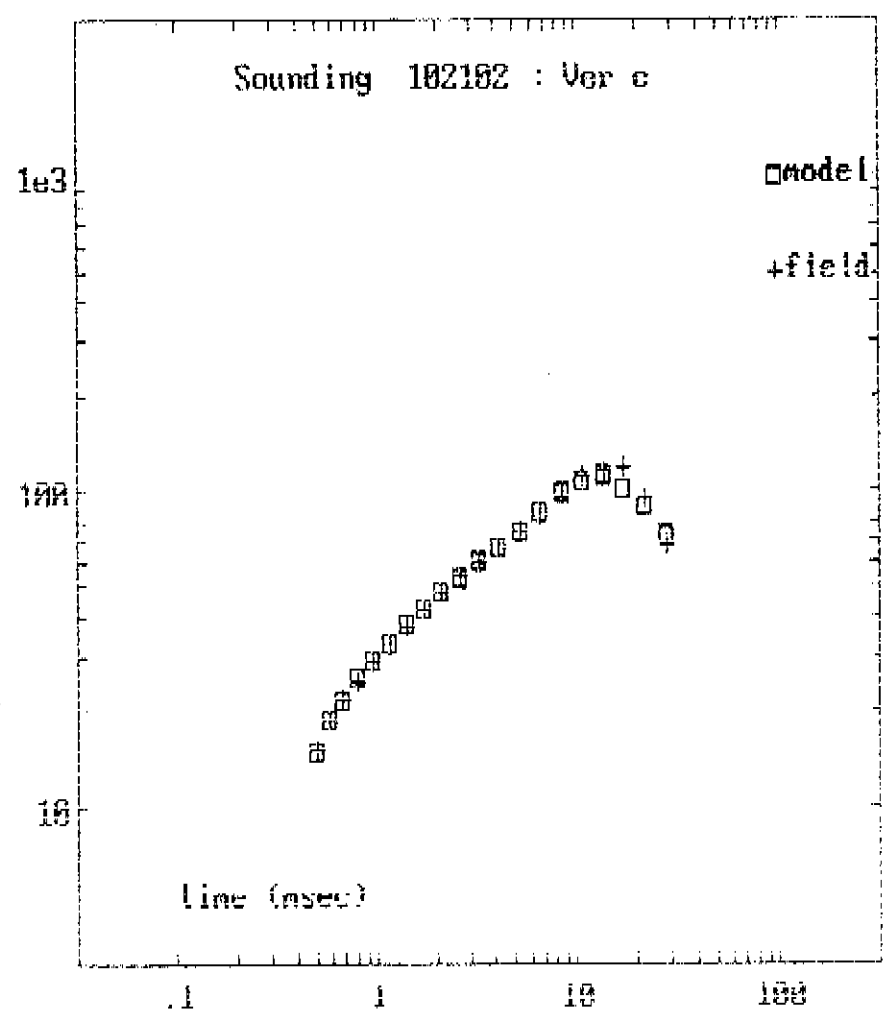
* 118

(6570)

E= 2%

S= 55

t
r
a
s
p
p
r
e
s



SOUNDING: 102102 : Vers c
Y102/102 6.25 Hz loop corrected

~~* 5.8 ohm.m * 11.5 m 11.5 m~~

102102A
~~* 5.8~~

* 123 ohm.m 444 m.

* 123

_____ (458 m.)

138 ohm m 527 m.

138

_____ * 983 m.

1 8 ohm m

_____ 1 8

STD ERR= 5.9% : S= 10 S

E= 5%
S= 105

Sounding 102104 : Ver 2

□model

+field

t
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e
s

1e3

100

10

time (nsec)

.1

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102994

58

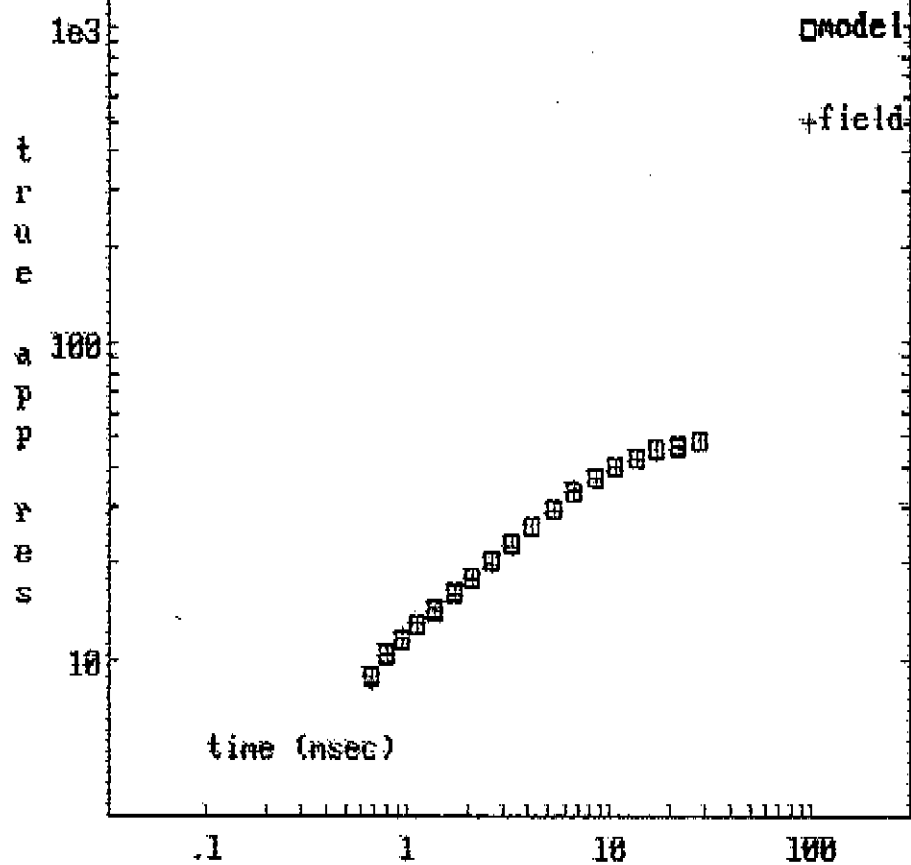
* 23.0

(8622)

E = 0%

S = BS

Sounding 182184 : Ver c



SDUNDING: 102104 : Vers c
Y102/104 6.25 Hz loop connected

102104A

* 11.2 ohm.m * 68.1 m.

* 68.1 m.

* 11.2

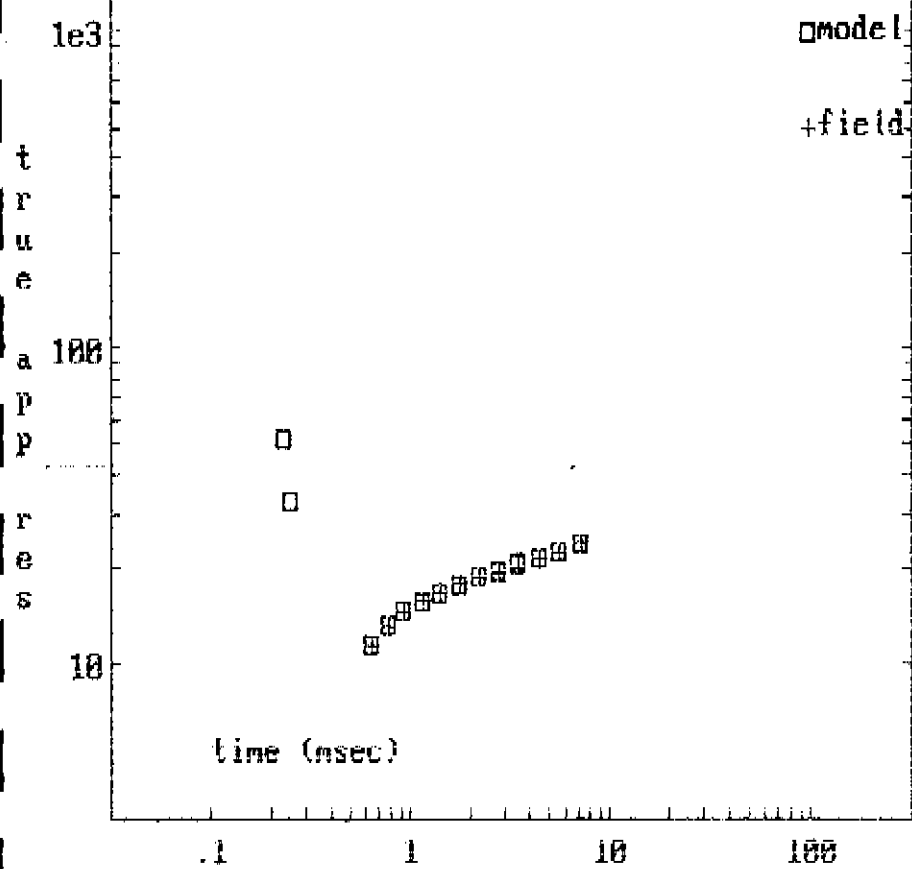
131 ohm.m 418 m.

131

* 50.1 ohm.m 484 m.

$\bar{E} = 56.1\%$
 $S = 95$

Sounding 102106 : Ver 1



SOUNDING: 102106 : Vers 1
Y102/106 25 Hz

102106A

* 9.1 ohm.m	* 25.5 m	* 25.5 m
x 27.9 ohm.m		

* 9.1
x 27.9

STG ERR- .9% : S- 3 S

E= 1%
S= 35

Sounding 102106 : Ver c

1e3

model

+field

100

10

(Time (msec))

.1

1

10

100

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e

SOUNDING: 102106 : Vers c
Y102/106 6.25 Hz loop corrected

102106A

~~9.2 ohm.m~~ ~~21.1 m~~ 21.1 m.

~~9.2~~

* 23.0 phm m * 309 m.

* 23.0

----- * 330 m.

(243 ohm.m) * 385 m.

(243)

----- * 685 m.
(19.6 ohm.m)

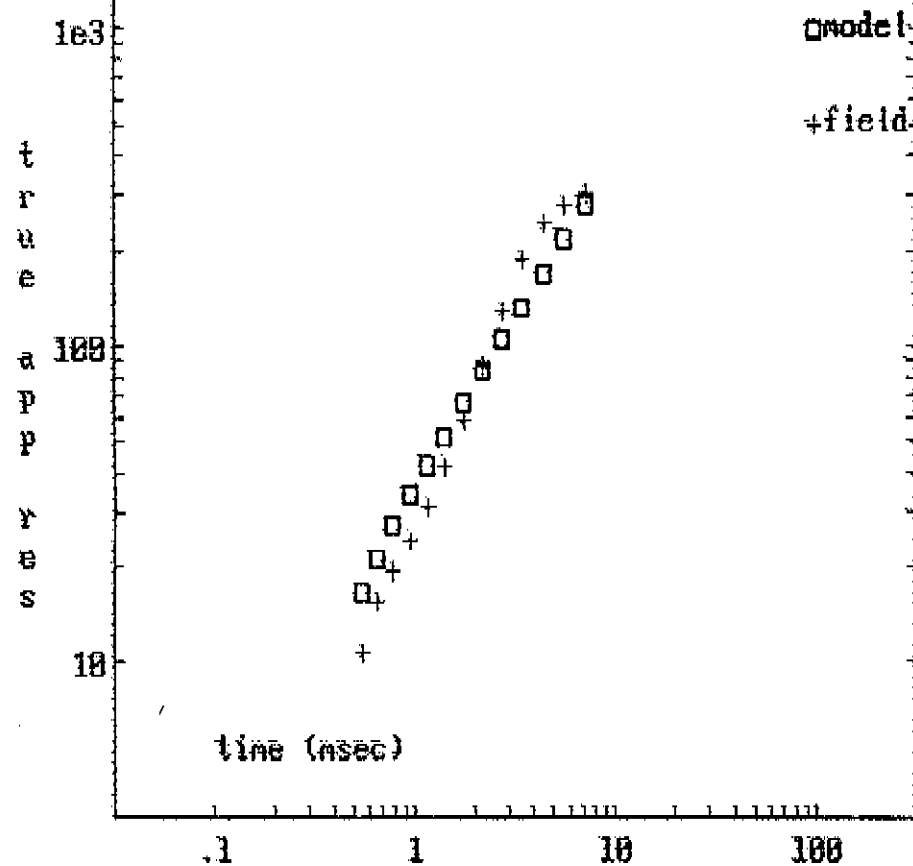
(19.6)

STD ERR= 3.5% : S= 17 S

E= 3%

S= 175

Sounding 104100 : Ver 1



SOUNDING: 104100 : Vers 1
Y104/100 25 HZ

104100A

~~* 1484 ohm.m (20157 mm) (22157 mm)~~

~~* 1484~~

(7054 ohm.m)

1533 m.

(7054)

-----1555 m.
(40.5 ohm.m)

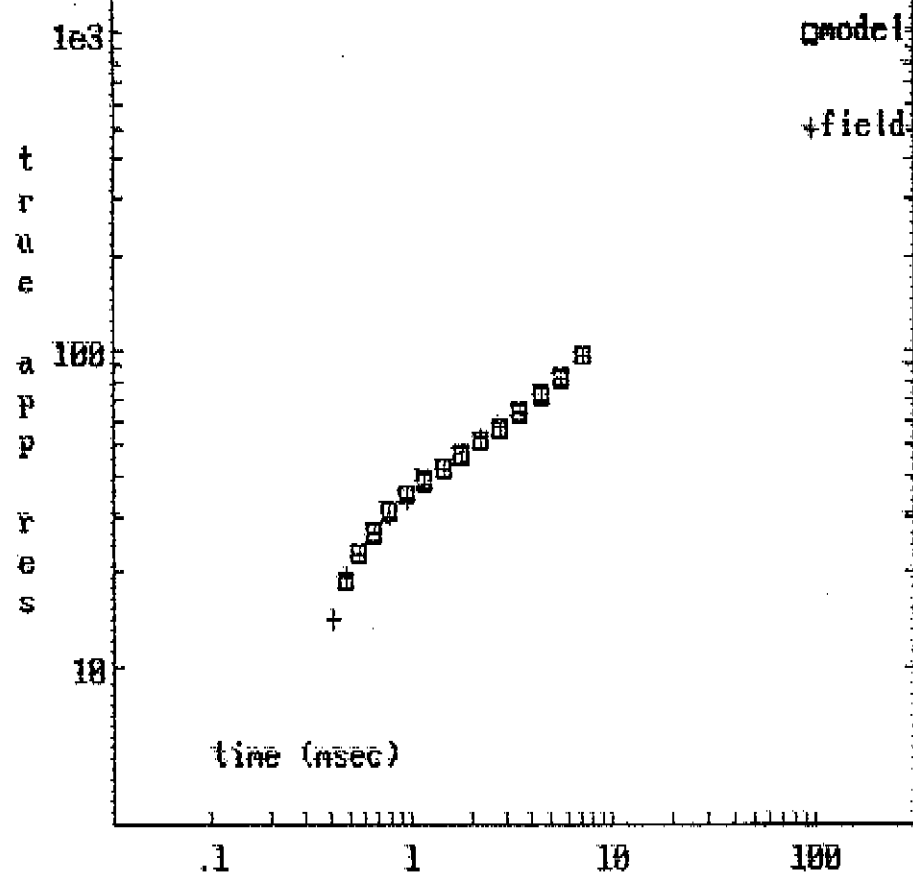
(40.5)

STD ERR=34.8% . S= 3 S

E=35%

S= 35

Sounding 104102 : Ver 1



SOUNDING: 104102 : Ver's 1
Y104/102 25 Hz

~~4.2 ohm.m~~ ~~8.7 m~~ 8.7 m.

* 92.7 ohm.m * 348 m.

_____* 355 m.
(8572 ohm.m)

STD ERR= 2.4% : S= 5 S

104102A

~~4.2~~

* 92.7

(8572)

E= 2%
S= 55

Sounding 104102 : Ver c

1e3

□model

+field

100

10

(time (msec))

.1

1

10

100

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r
e

SOUNDING: 104102 : Vers c
 Y104/102 6.25 Hz loop connected

~~1.7 ohm.m~~ ~~8.8 m~~ 3.3 m.

406 ohm.m * 143 m.

18.8 ohm.m * 147 m.
 48.8 m.
 (1000 ohm.m) * 195 m

STD ERR= 7.2% : S= 5 S

104102A

~~1.7~~

406

18.8

(xxxx)

E= 7%

S= 55

Sounding 104104 : Ver 2

□ model

+ field

t
r
a
p
p
e
s

1e3

100

10

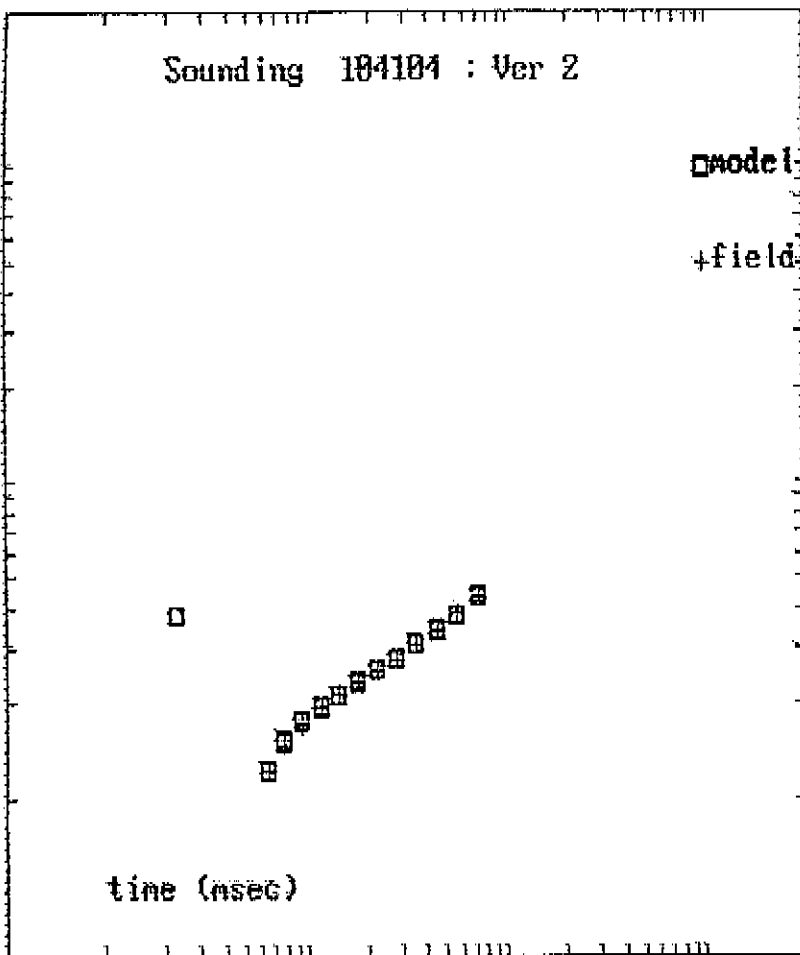
time (nsec)

.1

1

10

100



SOUNDING: 104104 : Vers 2
Y104/104 25 Hz

~~* 4.0 ohm.m~~ ~~5.3 m~~ 0.3 m.

* 46.2 ohm.m # 275 m.

_____ # 284 m.
(500 ohm.m)

STD ERR= .9% : S= 85

104104A

~~* 4.0~~

* 46.2

(500)

E= 1%
S= 85

Sounding 104104 : Ver c

model

+field

t
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s

1e3

100

10

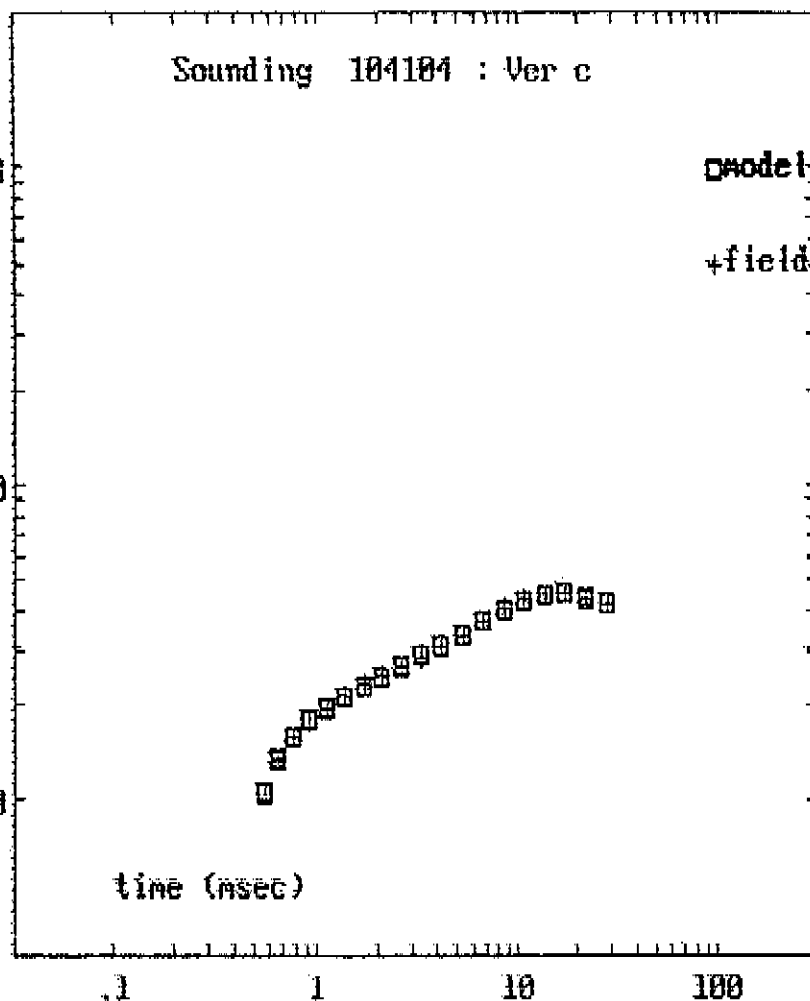
time (nsec)

.1

1

10

100



SOUNDING: 104104 : Vers c
Y104/104 6.25 Hz loop corrected

104104A

~~2.0 ohm.m~~ ~~0.1 m~~ 0.1 m.

~~2.0~~

x 43.0 ohm.m * 305 m.

x 43.0

----- x 312 m

(147 ohm.m) * 423 m.

(147)

----- * 734 m

* 13.9 ohm.m

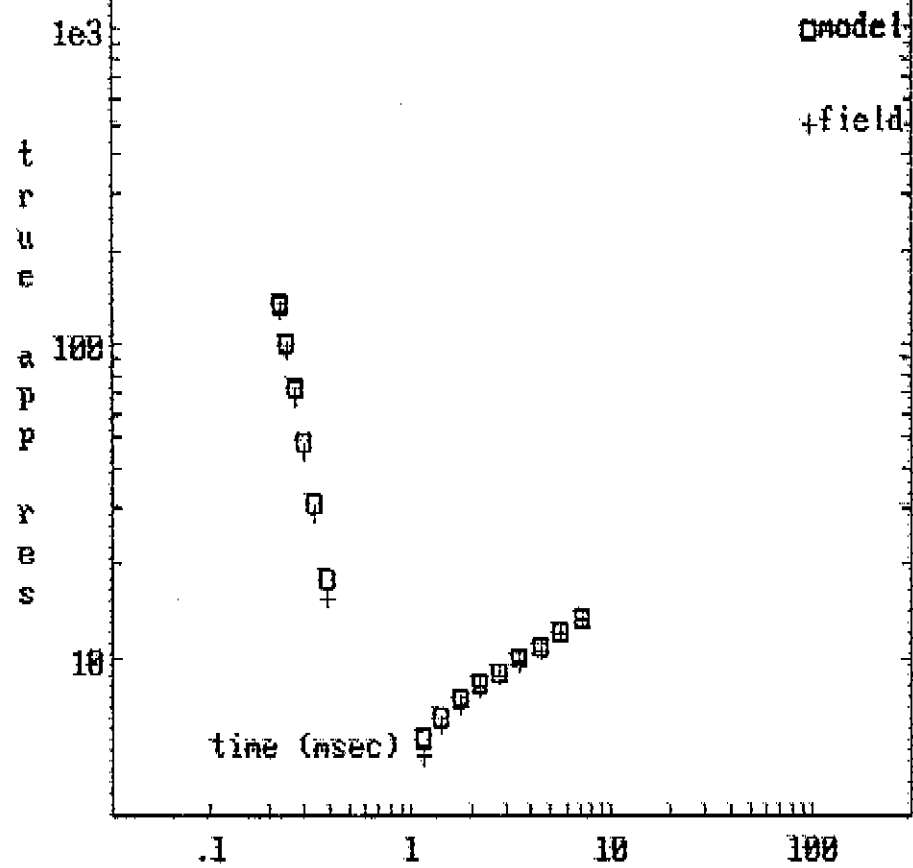
x 13.9

STD ERR= 1.8% : S= 12 S

E= 2%

S= 12S

Sounding 104106 : Ver 1



SOUNDING: 104106 : Vers 1
Y104/106 25 Hz

* 5.5 ohm m	* 41.8 m
* 22.0 ohm m	* 41.8 m

STD ERR= 4.7% : S= 8 S

104106A

* 5.5
* 22.0

E= 5%
S= 8S

Sounding 184186 : Ver c

1e3

□ model

+ field

t
r
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e

100

a
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10

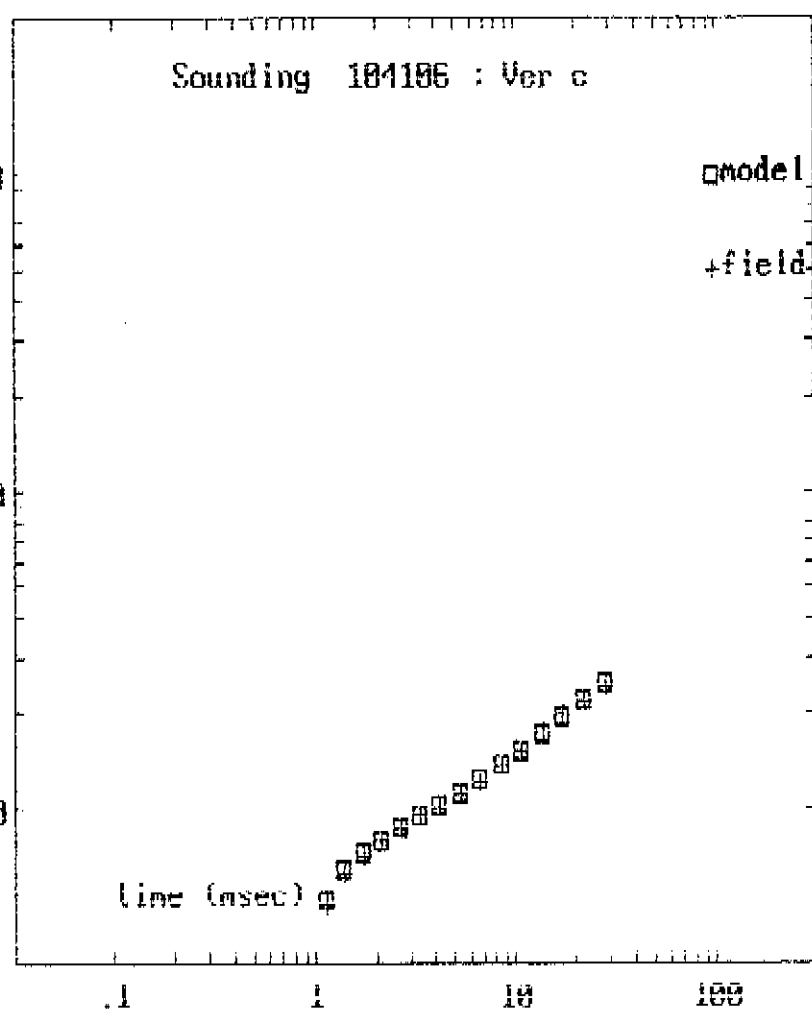
(line (msec) □

.1

1

10

100



SOUNDING: 104106 : Vers c
Y104/106 6.25 Hz loop corrected

~~* 3.6 ohm.m~~ ~~19.6 m~~ 19.8 m.
* 17.1 ohm.m * 201 m.
----- * 221 m

(230 ohm.m) 491 m.

----- 712 m
(49.6 ohm.m)

STD ERR= 1.7% * S= 19 S

104106A

~~* 3.6~~

* 17.1

(230)

(49.6)

E= 2%

S= 195

Sounding 104108 : Ver 1

model

+field

time (msec)

1e3

100

10

.1

1

10

100








124

x 1.3

(80.3)

E= 5%

S= 365

Sounding 104108 : Ver c

model

+field

t
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a
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1e3

100

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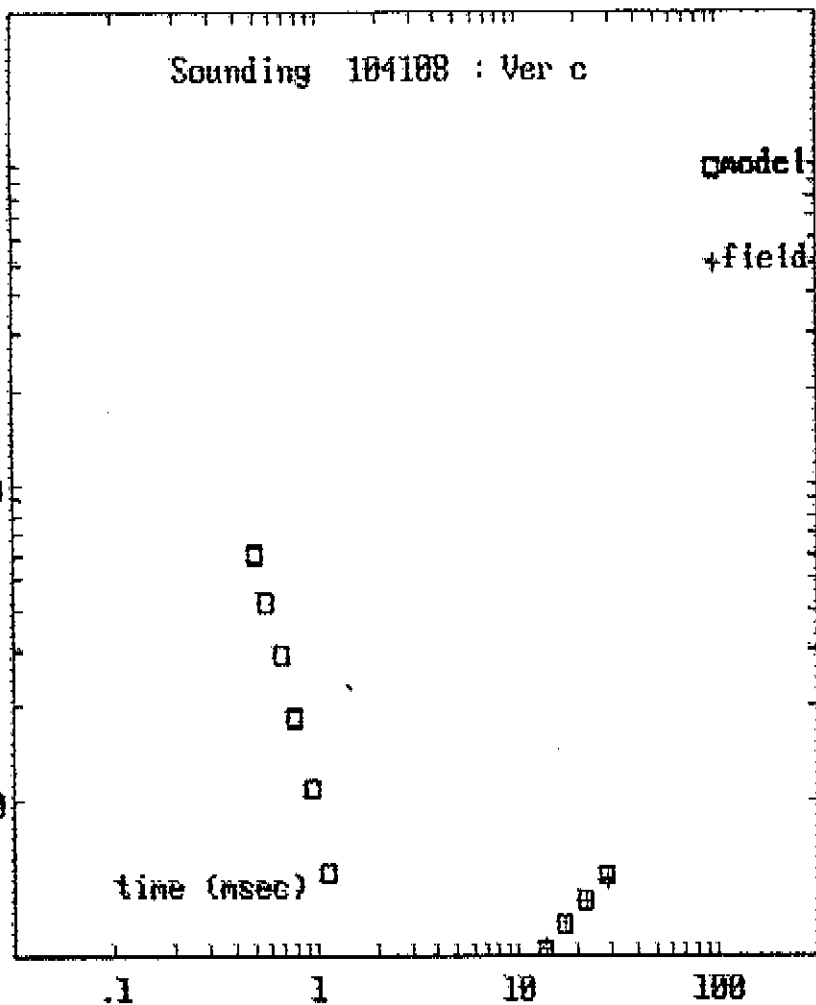
time (msec)

.1

1

10

100



SOUNDING: 104108 : Vers c
 Y104/108 6.25 Hz loop corrected

104108A

* 1.2 ohm.m	* 40.0 m.
* 40.0 m.	
(70.0 ohm.m)	

* 1.2
(70.0)

STD ERR= 1.6% : S= 33 S

E= 2%
 S= 335

Sounding 106100 : Ver 1

1e3

□model

+field

100

10

time (msec)

.1

1

10

100

transpression

SOUNDING: 106100 : Vers 1
Y106/100 25 Hz

* 4.1 ohm.m	* 18.5 m	18.5 m.
(166 ohm.m)	29.0 m.	(47.4 m)

1723 ohm m

STD ERR= 6.6% : S= 5 S

106100A

* 4.1
(166)

1723

E= 7%
S= 55

Sounding 106100 : Ver 2

1e3

□model

+field

t
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e
s

100

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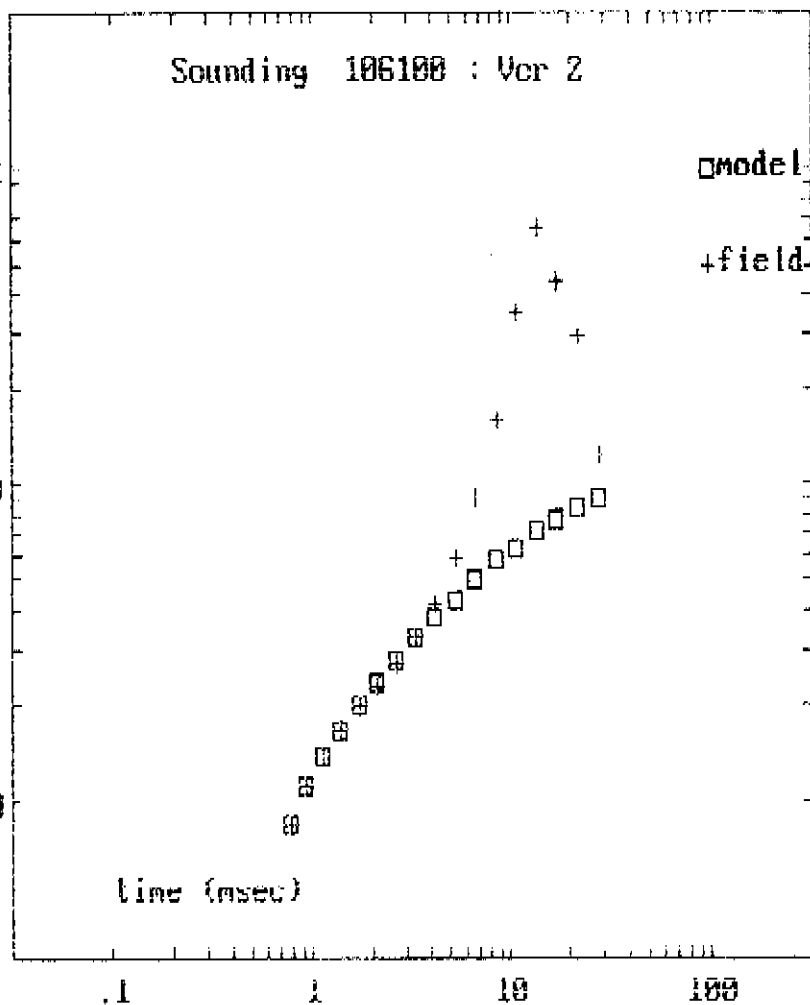
time (msec)

.1

1

10

100



SOUNDING: 106100 : Vers 2
Y106/100 6.25 Hz

~~* 2.6 ohm.m~~ * 10.2 m 10.2 m
* 152 ohm.m

STD ERR- 1.3% 5- 4 3

106100A

~~* 2.6~~
* 152

E= 1%
S= 45

Sounding 106102 : Ver 1

1e3

□model

+field

100

10

Time (msec)

.1

1

10

100

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97
98
99
100

SOUNDING: 106102 : Vers 1
Y106/102 25 Hz

~~4.8 ohm.m~~ ~~0.8 m~~ 5.8 m.

* B1 7 ohm.m * 289 m

~~4.8 ohm.m~~ * 294 m.
(A45 ohm.m)

STD ERR= 1.7% . S= 5 5

106102A

* B1 7

(A45)

S= 24
S= 55

Sounding 106102 : Ver c

model

+field

time
app
p
r
e
s

1e3

100

10

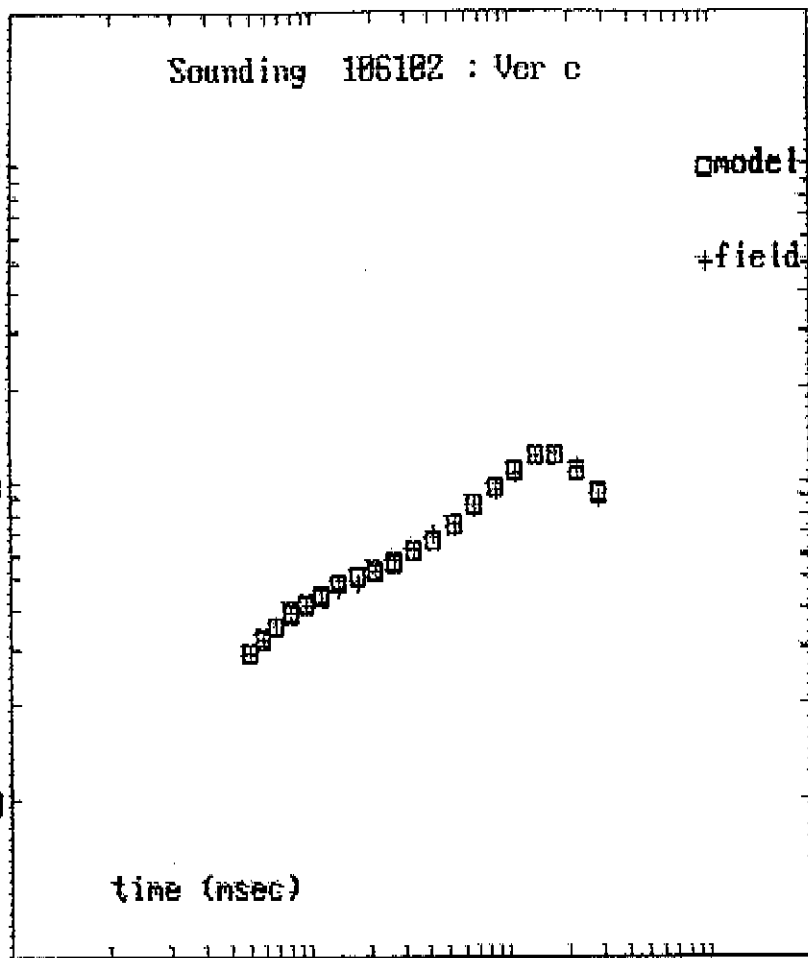
time (nsec)

.1

1

10

100



SOUNDING: 106102 : Vers c
Y106/102 6.25 Hz loop connected

106102A

~~4.8 ohm m~~ ~~4.8 m~~ 4.8 m.

~~4.8~~

* 83.0 ohm m * 438 m.

* 83.0

~~_____~~ * 438 m.

1293 ohm m * 696 m.

1293

~~_____~~ * 1134 m.

3.2 ohm m

3.2

STD ERR= 3.5% : S= 7.5

E= 3%

S= 75

Sounding 186184 : Ver 1

□ model

+ field

t
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e
d

1e3

100

10

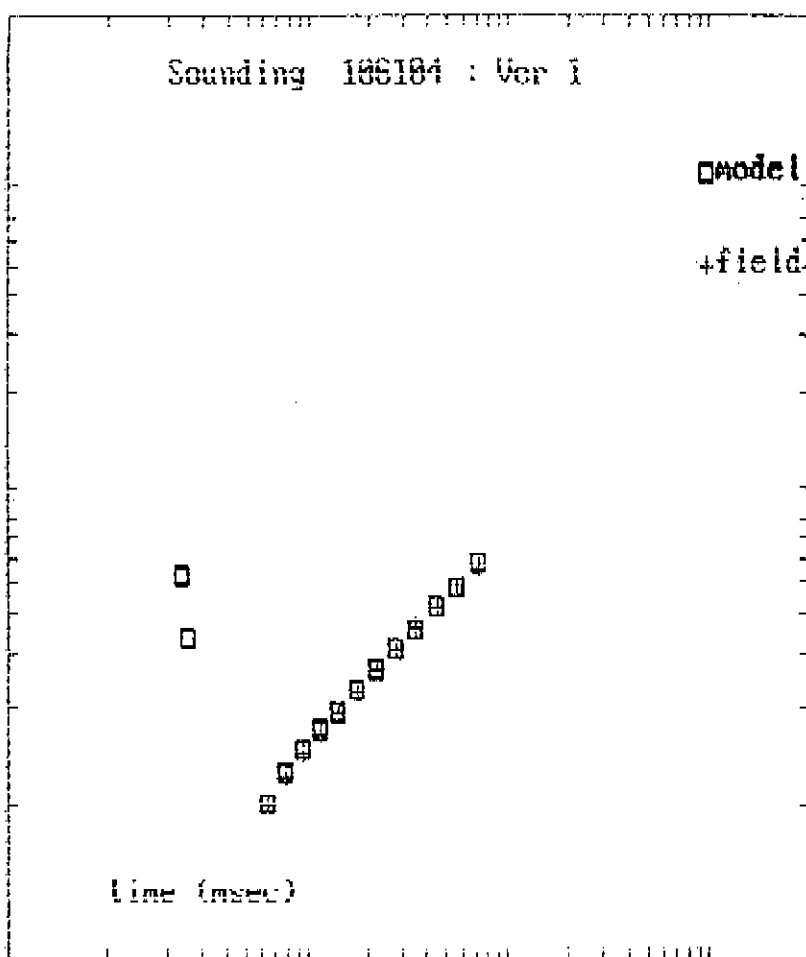
Time (msec)

.1

1

10

100



SOUNDING: 106104 : Vers 1
L106/104 25 Hz

106104A

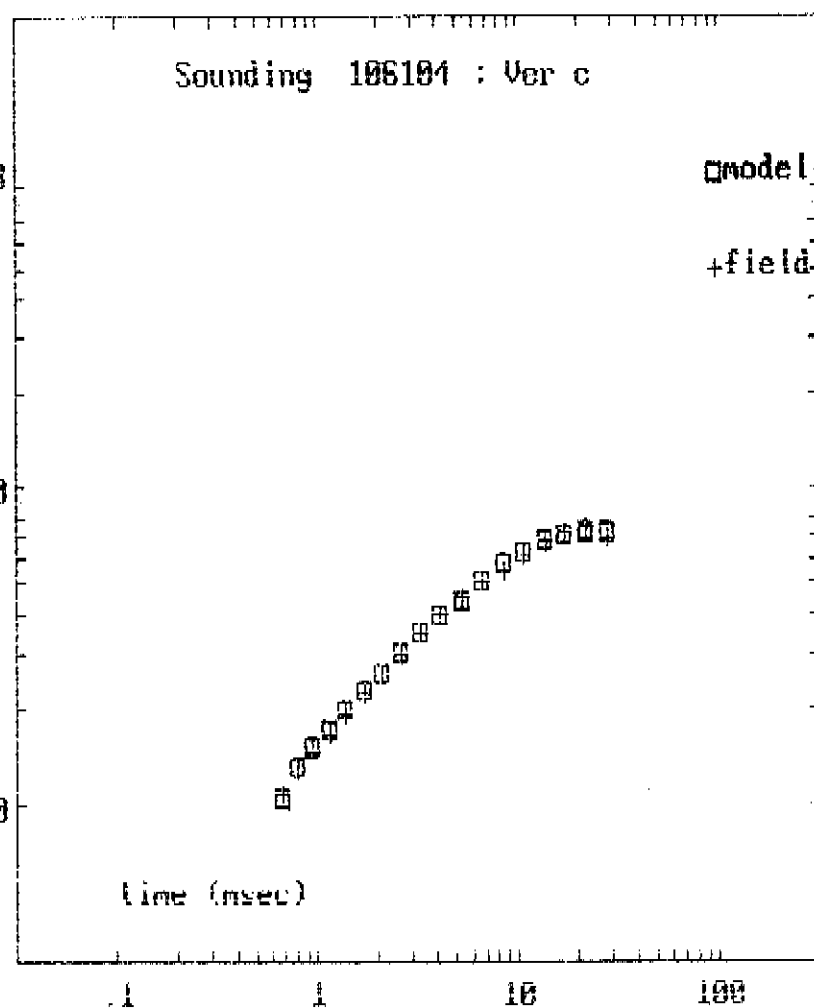
x 10.2 ohm.m x 40.0 m.
x 201 ohm.m y 46.0 m.

x 10.2
x 201

STD ERR= 1.3% : S= 4 S

E= 1%
S= 45

time
ap-
pro-
s



SOUNDING: 106104 : Vers c
Y106/104 6.25 Hz loop connected

106104A

* 9.0 ohm.m * 36.8 m. 36.8 m.

* 9.0

* 136 ohm.m * 977 m.

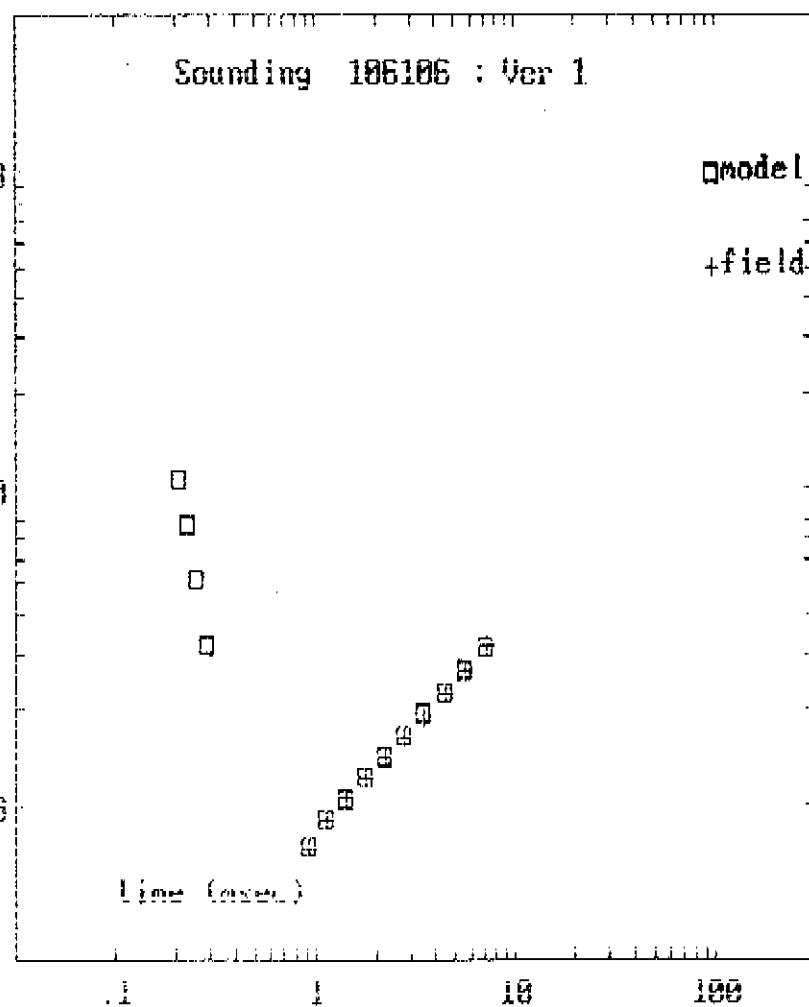
* 136

-----* 1014 m.
(33.0 ohm.m)

(33.0)

STD ERR= 3.5% : S= 11 8

E= 3%
S= 115



SOUNDING: 106106 : Vers 1
Y106/106 25 Hz

106106A

* 7.0 ohm m * 45.8 m.

* 7.0

* 45.8 m.
146 ohm m

146

STD ERR= .6% : S= 7 S

E= 1%
S= 75

Sounding 106106 : Ver c

model

+field

t
r
a
p
p
r
e
s

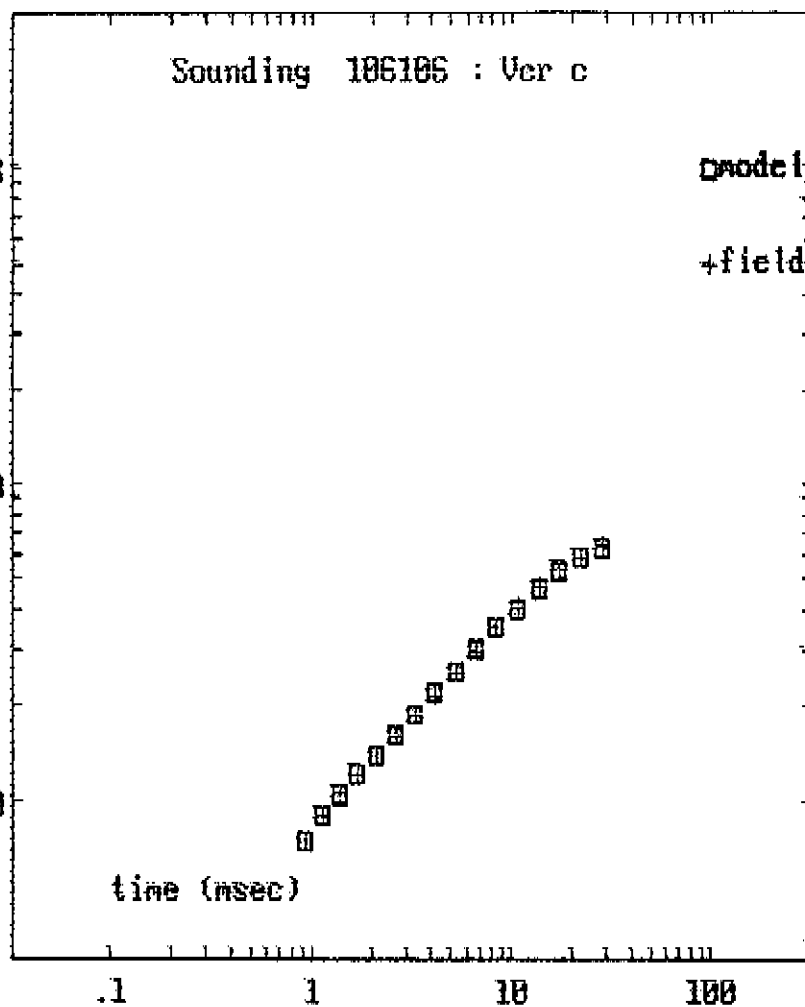
1e3

100

10

time (nsec)

.1 1 10 100



SOUNDING: 106106 : Vers c
Y106/106 6.25 Hz loop corrected

* 1 P 055 m * 48 P M 42.2 m.

* 2 P

106106A

* 170 ohm.m * 1046 m.

* 170

* 1094 m.
(37.5 ohm.m)

(37.5)

STD ERR= 1.6% : S= 13 S

E= 2%
S= 13S

Sounding 106108 : Ver 1

1e3

□model

+field

100

10

time (msec) □

.1

1

10

100

t
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SOUNDING: 106108 : Vers 1
Y106/108 25 Hz

~~421.8 m.m. (-2.8 m.) 2.0 m.)~~
~~* 31.1 ohm.m * 21.2 m * 23.3 m.~~
* 51.3 ohm.m

STD ERR= 2.0% : S= 7 S

106108A
~~421.8~~
~~* 31.1~~
* 51.3

E= 2%
S= 75

Sounding 106108 : Ver c

1e3

□ model

+ field

100

10

Time (msec) □

.1

1

10

100

t
r
u
a
p
p
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e
s

SOUNDING: 106108 : Vers c
 Y106/108 6.25 Hz loop corrected

* 3.4 ohm.m	* 24.4 m	* 24.4 m.
243 ohm.m	79.1 m.	
		103 m.
26.8 ohm.m	145 m.	
		* 240 m
(675 ohm.m)		

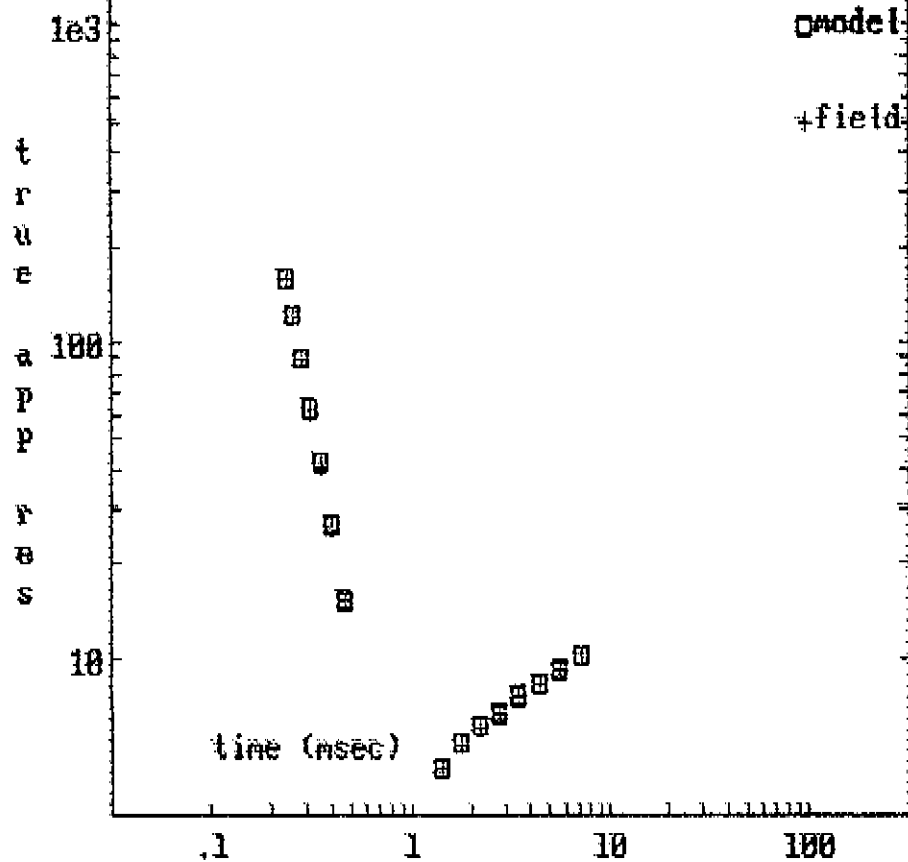
STD ERR= 4.6% : S= 19.5

106108A

* 3.4
243
26.8
(675)

E= 5%
 S= 19.5

Sounding 106110 : Ver 1



SOUNDING: 106110 : Verb 1
Y106/110 25 Hz

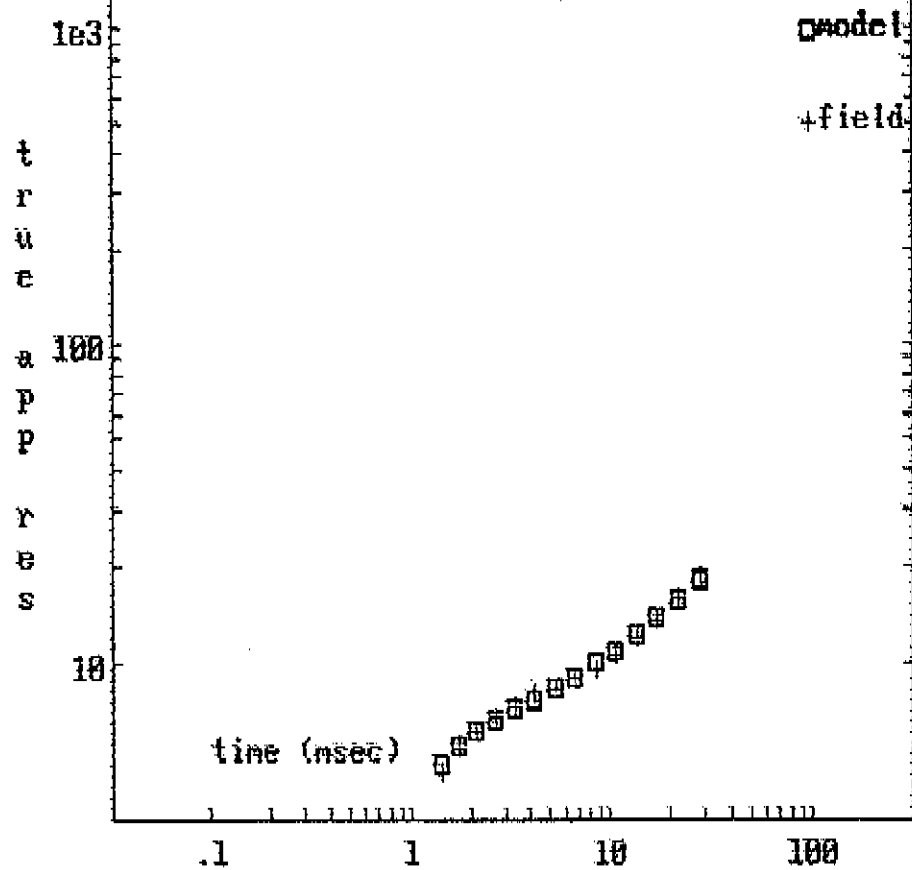
~~128 ohm.m (1.5 m.)~~
* 4.1 ohm.m * 38.5 m.
* 18.5 ohm.m * 40.0 m.

STD ERR= .7% : S= 9 S

106110A
~~128~~
* 4.1
* 18.5

E= 1%
S= 9S

Sounding 106110 : Ver c



SOUNDING: 106110 : Vers c
Y106/110 6.25 Hz loop corrected

106110A

* 3.7 ohm.m 25.2 m. 25.2 m.

* 3.7

* 13.1 ohm.m * 194 m.

* 13.1

----- * 220 m
(227 ohm.m)

(227)

STD ERR= 3.6% ; S= 22 S

E= 4%
S= 225

Sounding 106112 : Ver 1

1e3

model

+field

100

10

time (msec)

.1

1

10

100

SOUNDING: 106112 : Vers 1
Y106/112 25 Hz

~~100 ohm.m~~ * ~~7.1 m.~~ 7.1 m.
* 1.2 ohm.m * 63.8 m.
----- x 70.9 m.
(50.2 ohm.m)

STD ERR= 9.0% : S= 63 S

106112A
~~100~~
* 1.2

(50.2)

E= 3%
S= 535

Sounding 106112 : Ver 2

□ model

+ field

1e3

100

10

line (msec)

.1

1

10

100

t
r
u
e

a
p
p
r
e
s

SOUNDING: 106112 : Vers 2
Y106/112 6.25 Hz

~~* 100 ohm.m 2.0 m. 2.0 m.~~
* 1.3 ohm.m * 58.6 m.
----- * 58.6 m.

40.2 ohm.m 140 m.

----- (208 m.)
(250 ohm.m)

STD ERR= 8.3% : S= 54 S

106112A

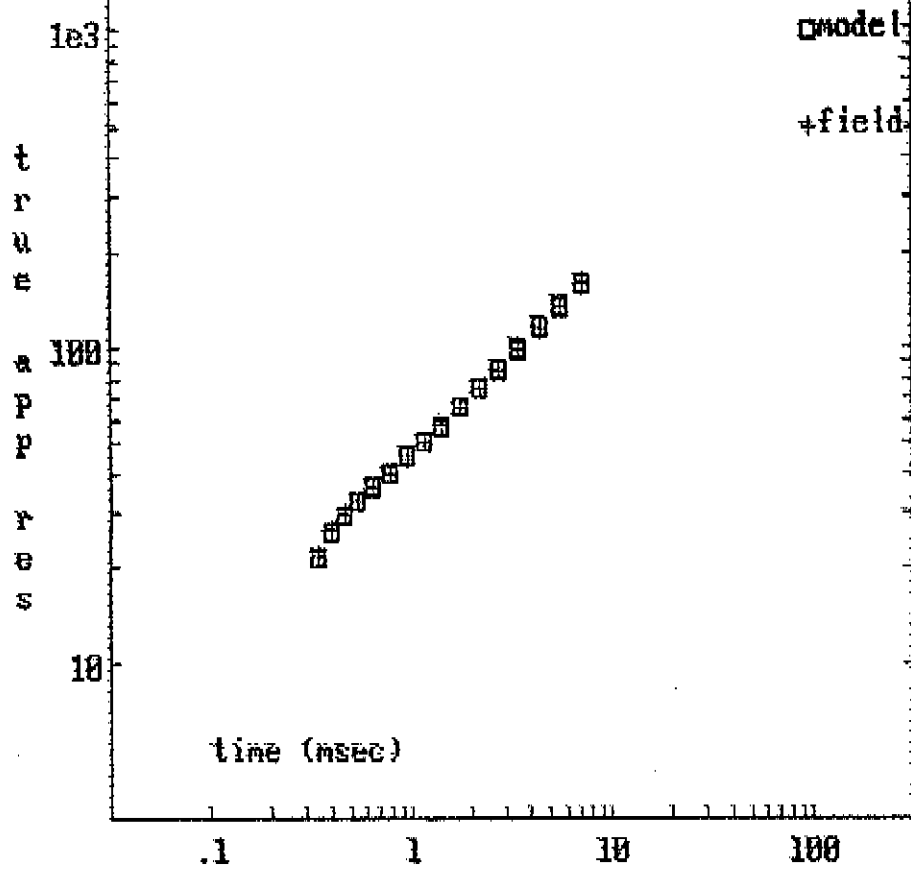
~~* 100~~
* 1.3

40.2

(250)

E= 8%
S= 545

Sounding 188169 : Ver 2



SOUNDING: 108100 : Vers 2
Y108/100 25 Hz

1081004

* 19.9 mm. m	30.8 m.	
		30.8 m.

* 19.9

84.7 ohm.m # 125 m.

84.7

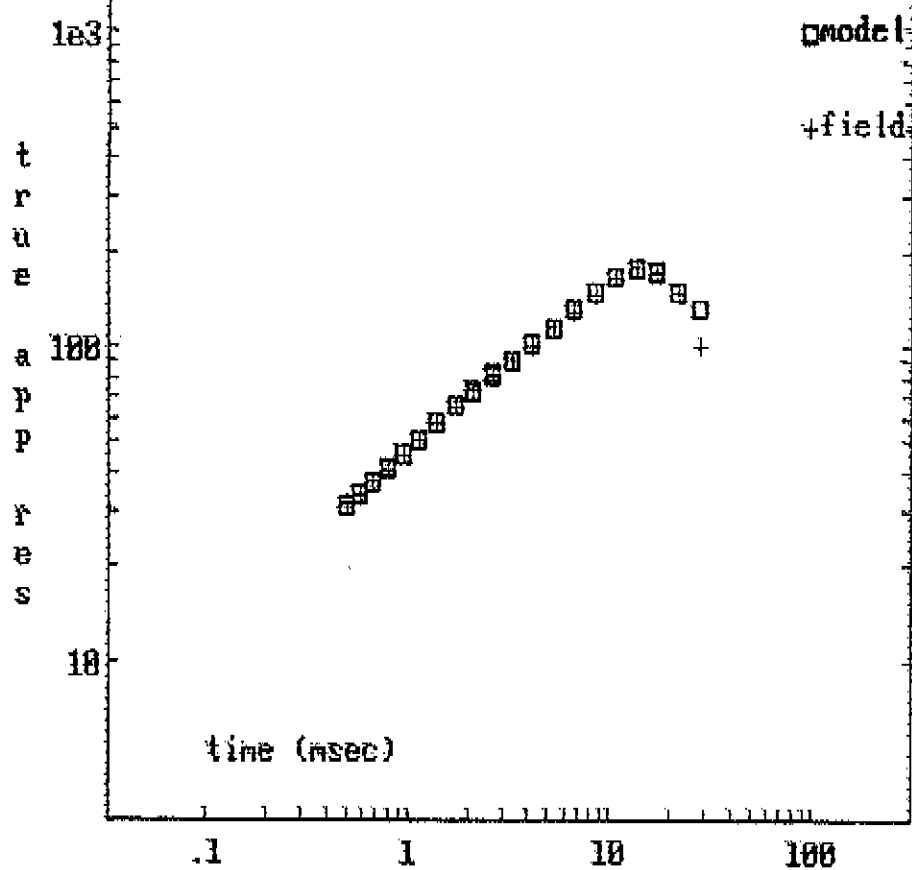
717 ohm.m 157 m.

717

STD ERR= 1.6% : S= 33

E = 2%
S = 35

Sounding 108100 : Ver c



SOUNDING: 108100 : Vers c
Y108/100 6.25 Hz loop corrected

* 25.2 ohm.m * 56.4 m 56.4 m.

* 241 ohm.m * 1331 m

5.6 ohm.m * 1338 m.

STD ERR= 2.0% : S= 85

108100A
* 25.2

* 241

5.6

E= 2%
S= 85

Sounding 105102 : Ver 2

□ model

+field

1e3

t
r
u
e
a
p
p
r
e
s

100

10

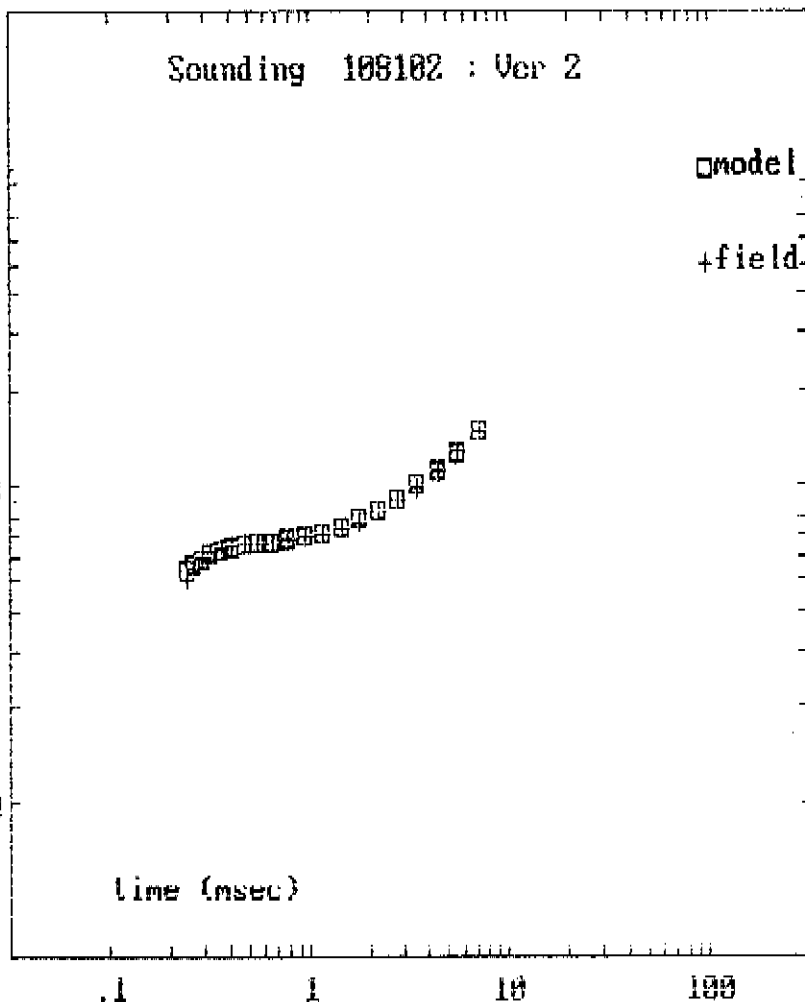
time (msec)

.1

1

10

100



SOUNDING: 108102 : Vers 2
Y108/102 25 Hz

* 41.8 ohm.m (19.2 m) (19.2 m)

* 80.9 ohm.m * 265 m.

1807 ohm.m * 305 m.

STD ERR= 1.7% : S= 4.8

108102A

* 41.8

* 80.9

1807

E= 2%

S= 4.8

Sounding 108102 : Ver c

□ model

+ field

1e3

100

10

Time (msec)

.1

1

10

100

Vertical

SOUNDING: 108102 : Vers c
Y108/102 6.25 Hz loop connected

~~(157 ohm.m)~~ ~~17.7 m~~ 17.7 m.
* 61.4 ohm.m * 206 m.
* 224 m.

* 260 ohm.m * 1108 m.

17.6 ohm.m * 1888 m.

STD ERR= 4.9% S= 8.8

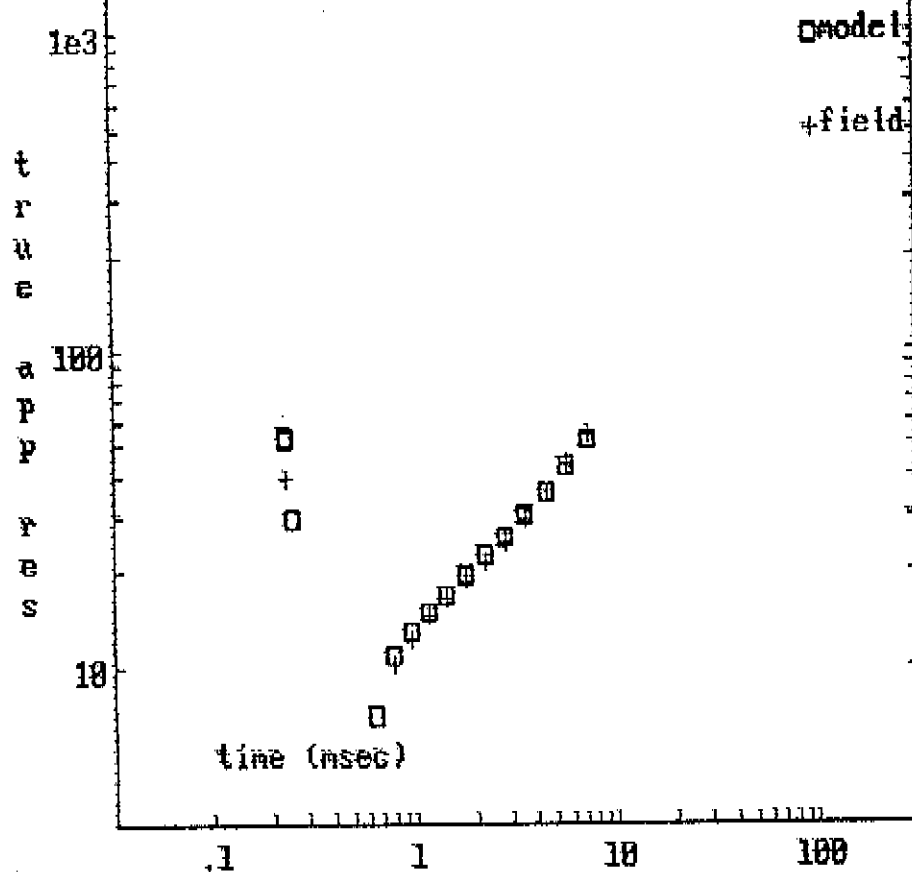
108102A
~~(157)~~
* 61.4

* 260

17.6

E= 5%
S= 8.8

Sounding 108104 : Ver 1



SOUNDING: 108104 : VerB 1
Y108/104 25 Hz

~~00 ohm.m~~ ~~59 m.~~ ~~59 m.~~

* 24.9 ohm.m

* 110 m.

~~111 m.~~
(2697 ohm.m)

STD ERR= 6.2% : S= 6 S

108104A

~~00~~

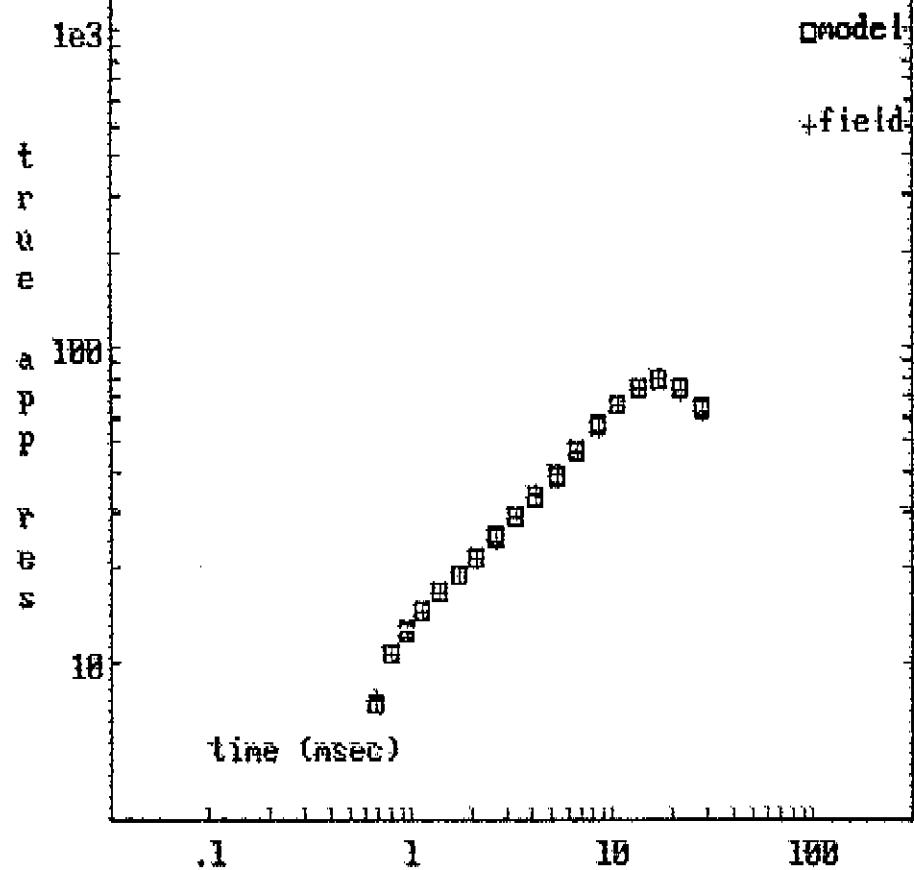
* 24.9

(2697)

E= 8%

S= 65

Sounding 108104 : Ver c



SOUNDING: 108104 : Vers c
 Y108/104 6.25 Hz loop corrected

* 2.5 ohm.m	* 6.5 m.	
* 34.0 ohm.m	* 127 m.	133 m.

(526 ohm.m) * 843 m.

-----* 977 m.
 (6.7 ohm.m)

STD ERR= 1.6% : S= 8 S

108104A

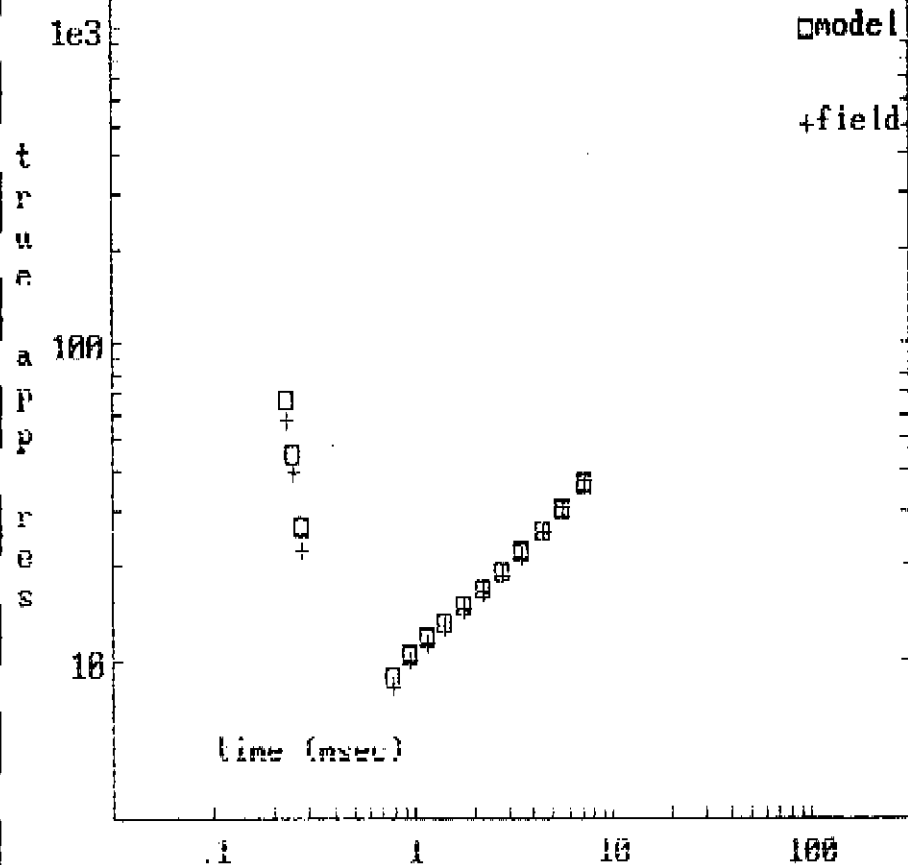
* 2.5
* 34.0

(526)

 (6.7)

E= 2%
 S= 85

Sounding 188106 : Ver 1



SOUNDING: 108106 : Vers 1
Y108/106 25 Hz

~~* 4.7 ohm.m~~ ~~5.5 m~~ A 5 m

* 16.2 ohm.m * 90.7 m

..... A 90.2 m
(537 ohm.m)

STD ERR= 4.4% : S= / S

108106A

~~* 4.7~~

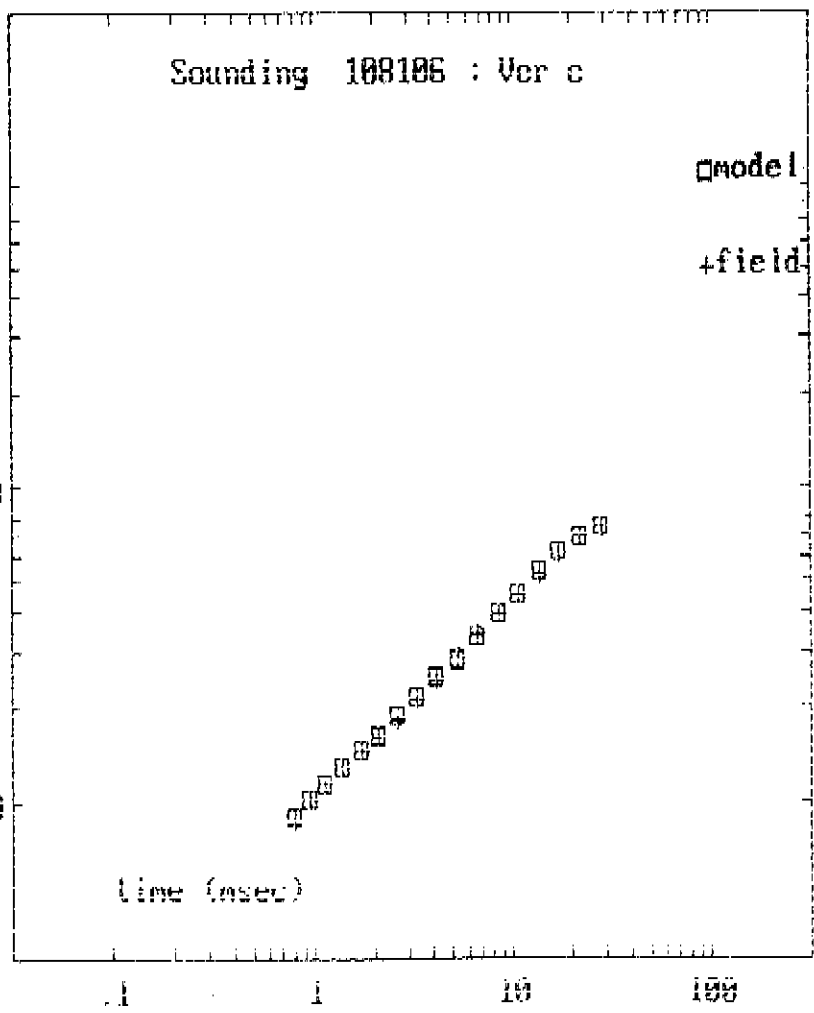
* 16.2

(537)

E= 4%

S= 75

t
r
u
e
a
p
p
r
e
s



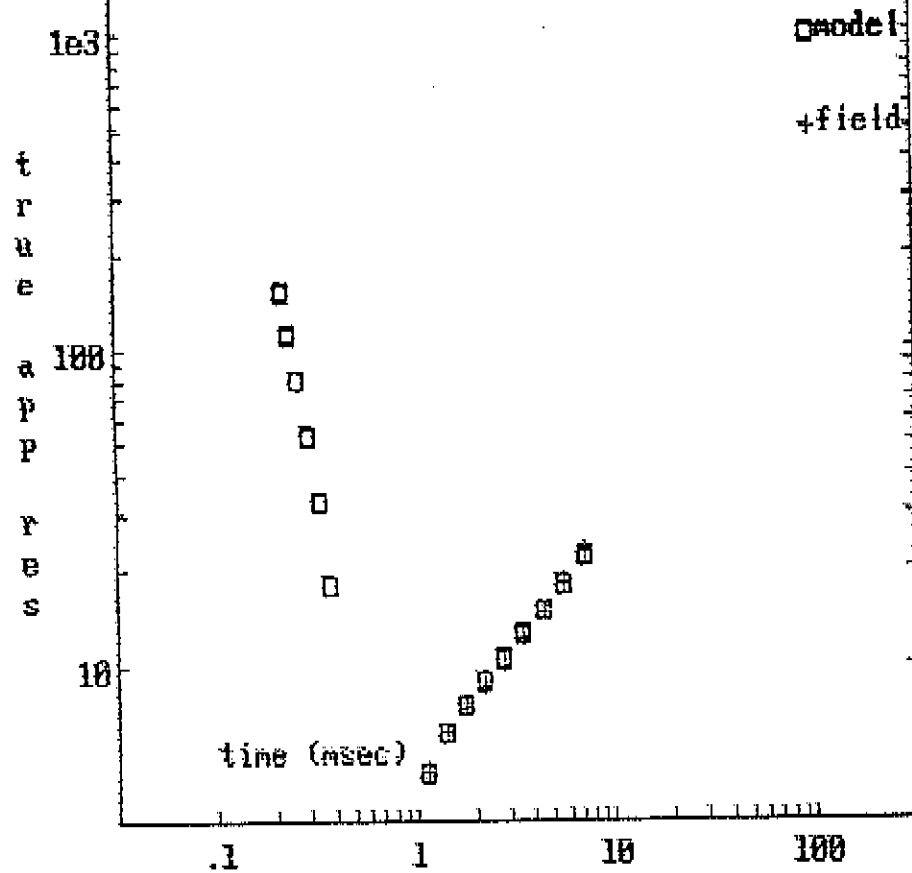
855

X 178

(B. 4)

E= 2%
S= 135

Sounding 108108 : Ver 1



SOUNDING: 108108 : VerB 1
Y108/108 25 Hz

108108A

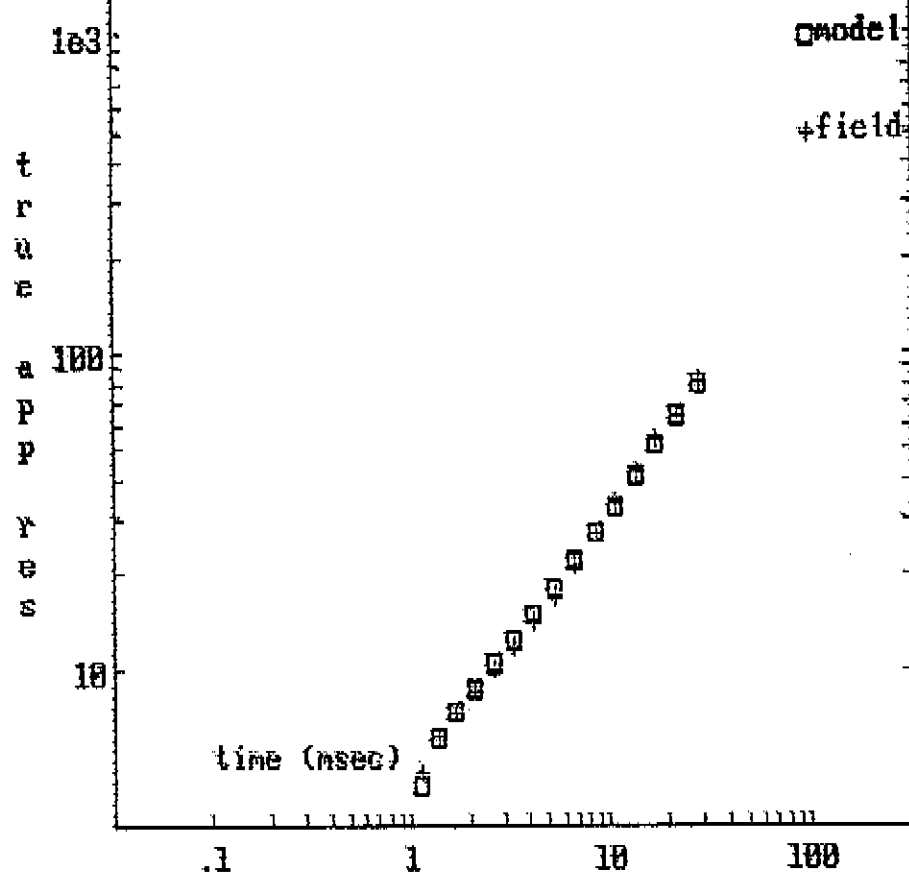
* 4.7 ohm.m	* 42.4 m.
536 ohm.m	

* 4.7
536

STD ERR- 1.0% : S= 9 S

E= 2%
S= 95

Sounding 108108 : Ver 2



SOUNDING: 108108 : Vers 2
Y108/108 6.25 Hz

* 4.4 ohm.m	* 36.5 m.	* 36.5 m.
71.8 ohm.m	27.5 m.	(64.0 m.)
(3364 ohm.m)		

STD ERR= 4.4% : S= 9 S

108108A

* 4.4
71.8
(3364)

E= 4%
S= 9S

Sounding 108110 : Ver 1

1e3

□model

+field

100

t
r
u
e
a
p
p
r
e
s

10

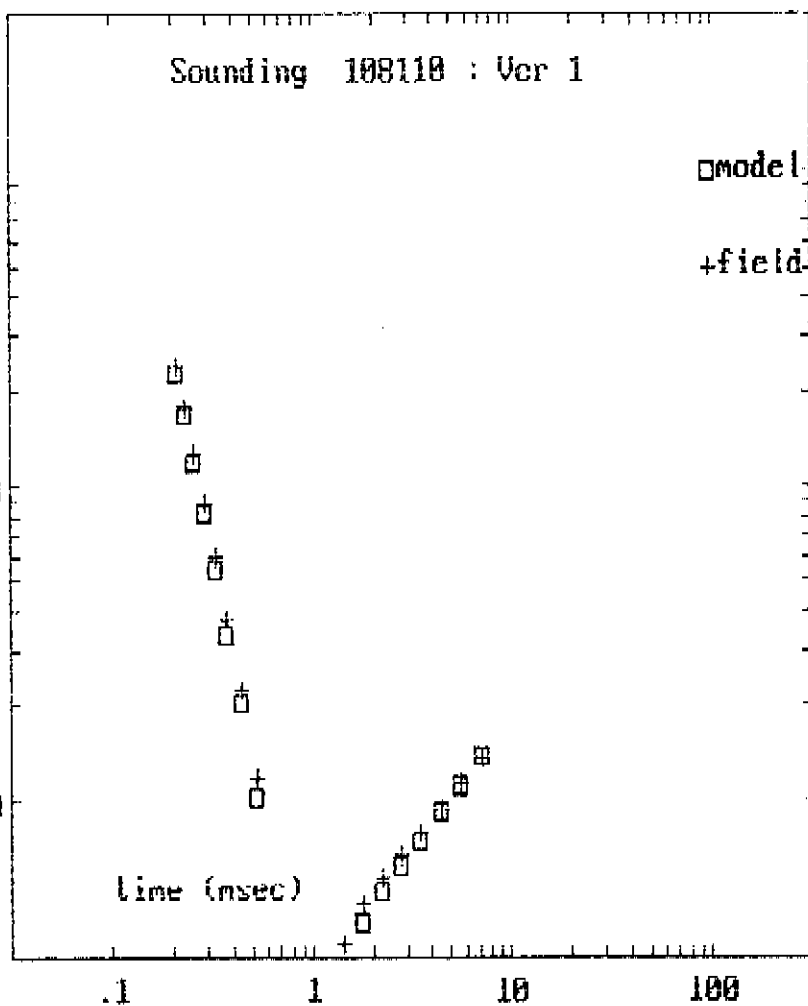
Line (nsec)

.1

1

10

100



SOUNDING: 108110 : Vers 1
Y108/110 25 Hz

108110A

(75.0 ohm.m) * 7.9 m.

(75.0)

* 7.9 m.

* 1.5 ohm.m * 15.5 m.

* 1.5

* 24.4 m.

(225 ohm m)

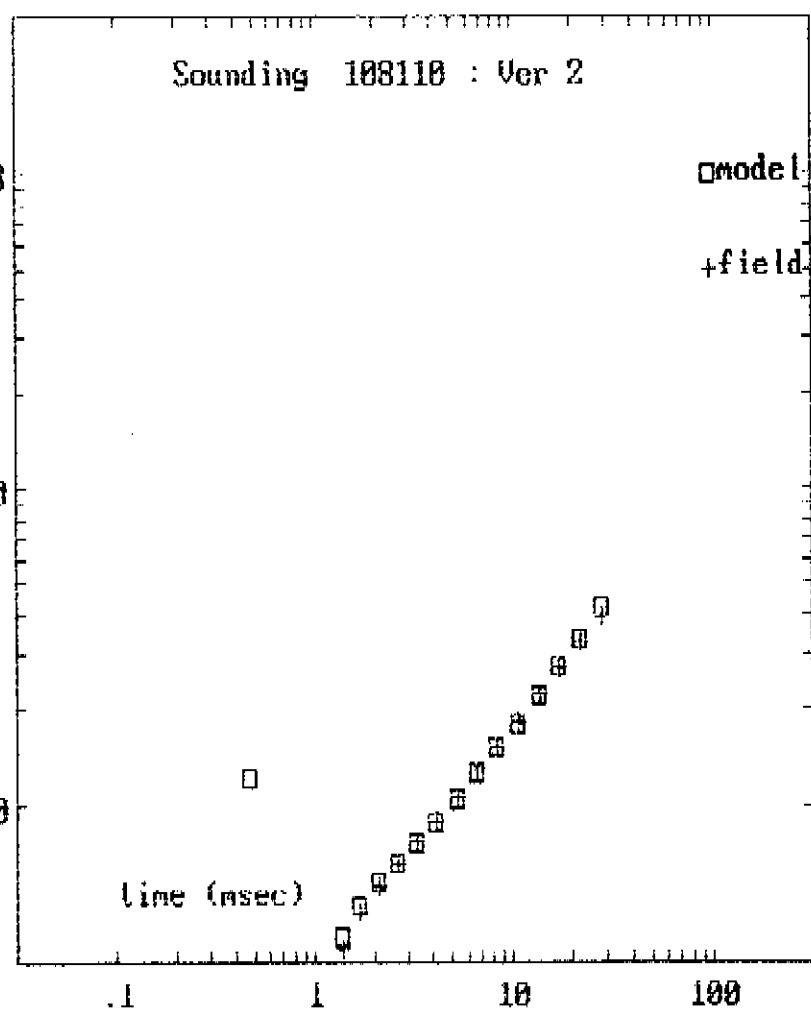
(225)

STD ERR= 8.7% : S= 11 S

E= 9%

S= 115

trans-
app-
res



SOUNDING: 108110 : Vers 2
Y108/110 6.25 Hz

108110A

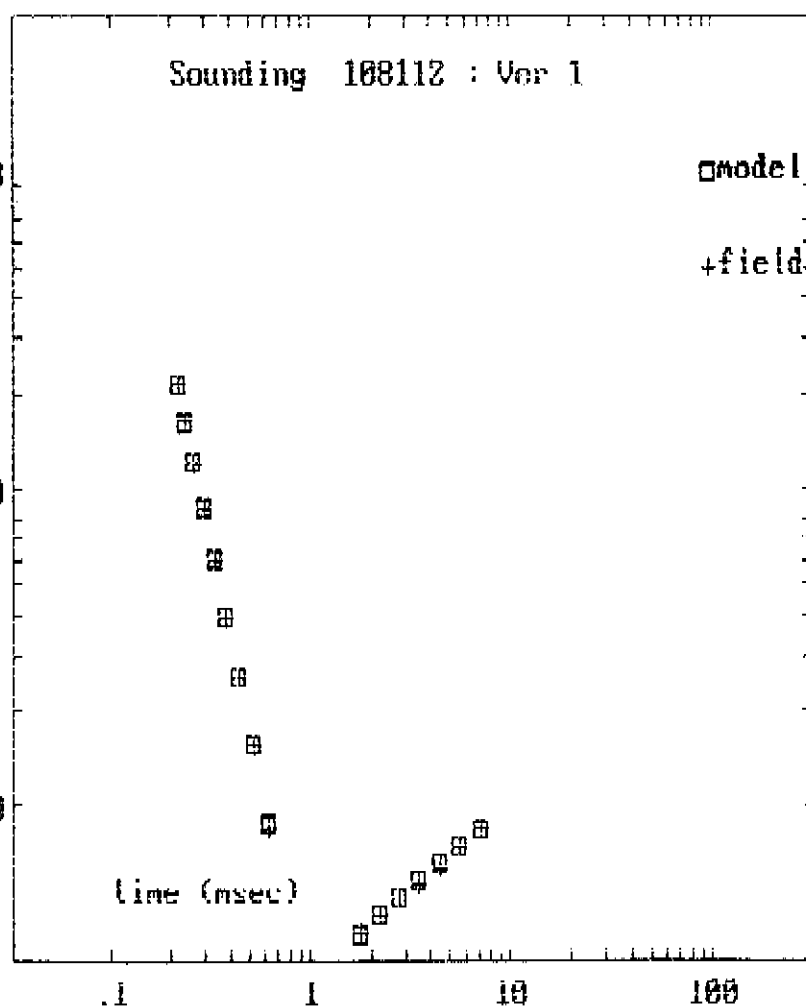
* 4.6 ohm.m * 57.1 m.
* 57.1 m.
(3326 ohm.m)

* 4.6
(3326)

STD ERR= 3.5% · S= 12 S

E= 3%
S= 12S

t
r
u
e
a
p
p
r
e
s



SOUNDING: 108112 : Vers 1
Y108/112 25 Hz

(109.0 ohm.m) * 14.8 m
x 1.4 ohm.m 14.8 m 14.8 m

10.5 ohm.m 179 m.

208 m.
88.4 ohm.m

STD ERR= 1.1% : S- 21 S

108112A

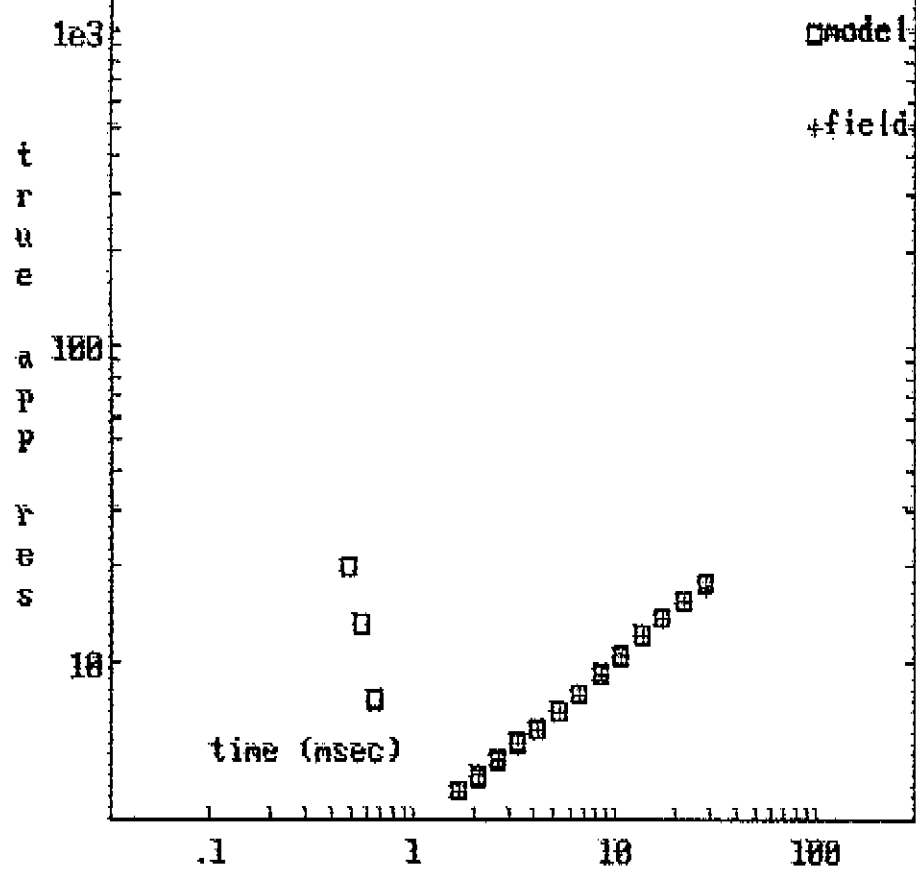
1090

10.5

88.4

E= 1%
S= 215

Sounding 108112 : Ver c



SOUNDING: 108112 : Vers c
Y108/112 6.25 Hz loop corrected

(74.3 ohm.m)	(8.1 m)	8.1 m.)
* 3.3 ohm.m	* 48.6 m.	
		* 58.7 m.
* 49.4 ohm.m		

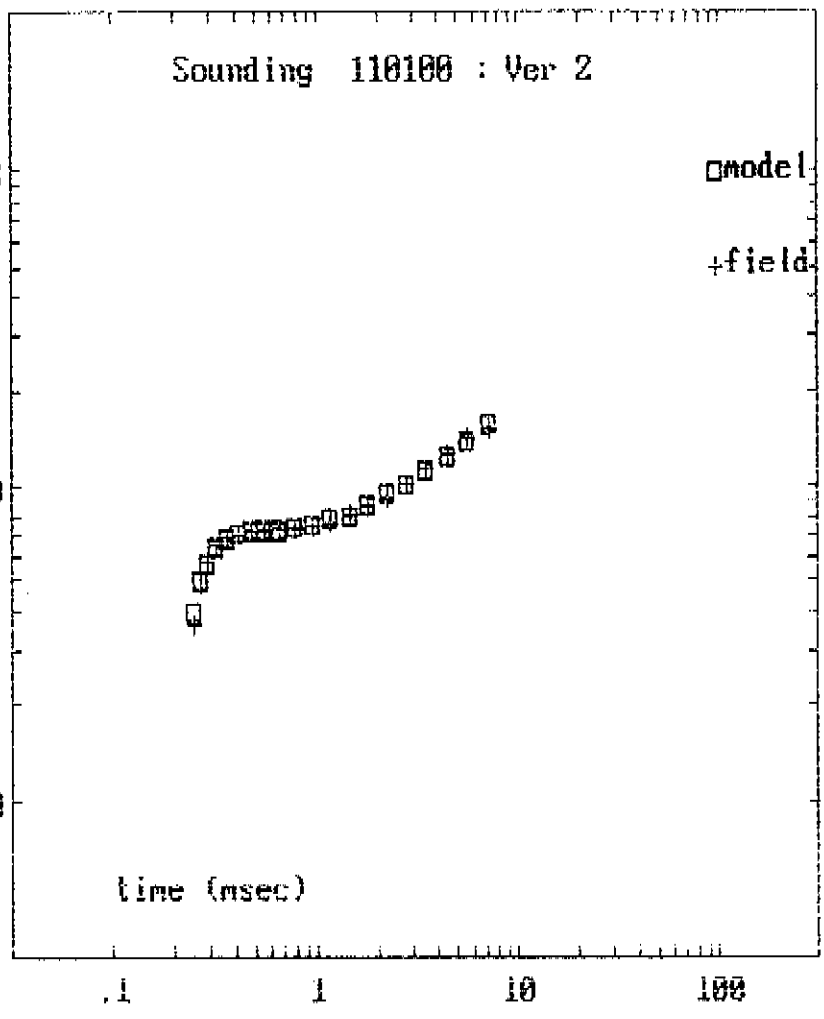
STD ERR= 1.0% : S= 15 S

108112A

(74.3)
* 3.3
* 49.4

E= 1%
S= 155

transmission



SOUNDING: 110100 : Vers 2
Y110/100 25 Hz

~~8.8 ohm m~~ ~~8.5 m~~ 6.5 m.

(419 ohm m) * 116 m

-----* 128 m.

30.3 ohm m 57.2 m.

-----* 180 m.

* 406 ohm m

STD ERR= 2.6% : S- 3 S

110100A

~~8.5~~

(419)

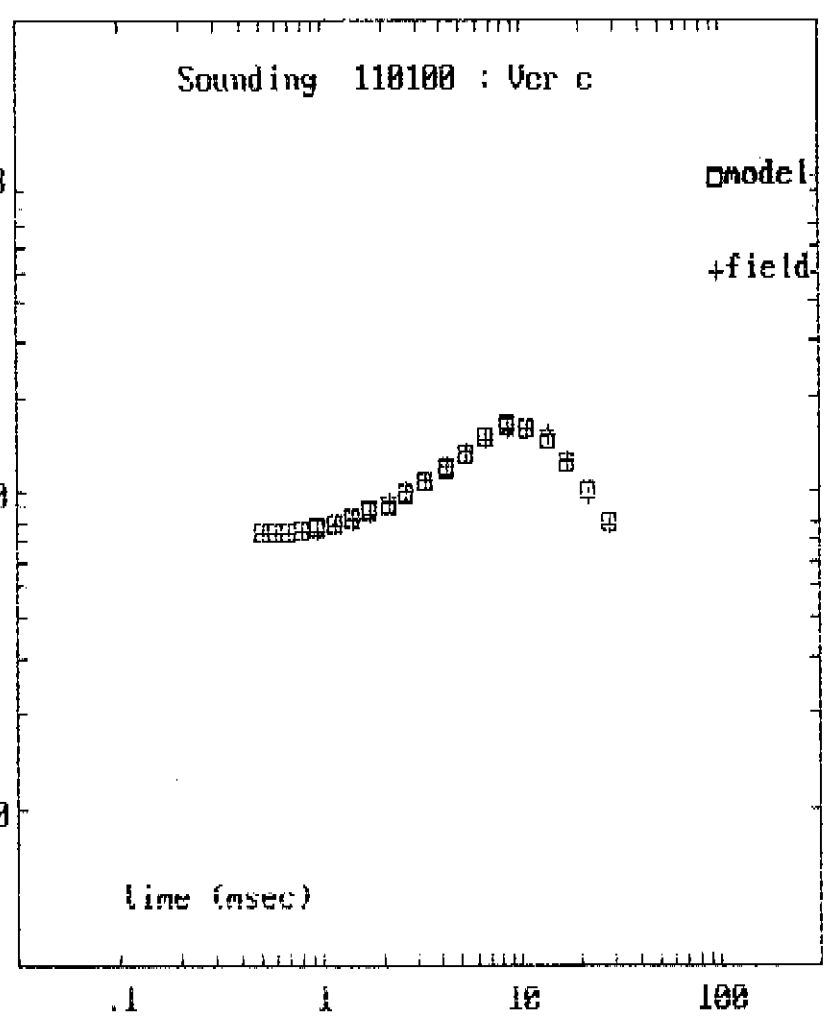
30.3

* 406

E= 3%

S= 35

t
r
u
e
a
p
p
r
e
s



SOUNDING: 110100 : Vers c
 Y110/100 6.25 Hz loop corrected

110100A

* 75.3 ohm.m * 206 m.

 * 200 m.

* 75.3

* 188 ohm.m * 785 m.

* 188

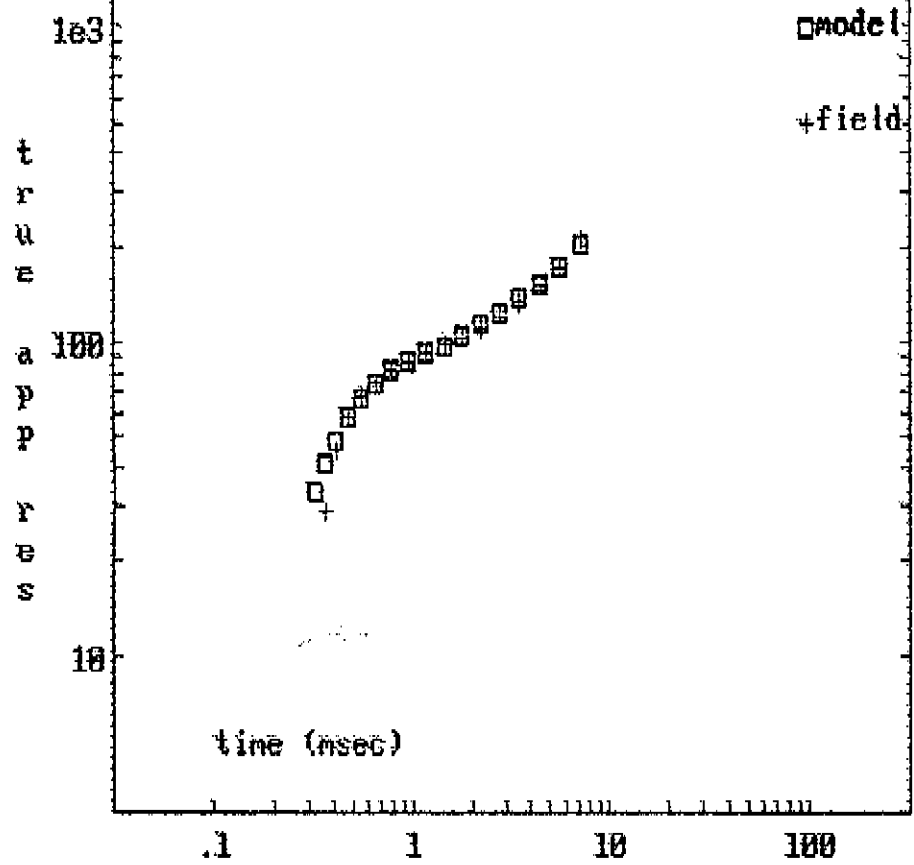
* 2.1 ohm.m * 1001 m.

* 2.1

STD ERR= 3.2% : S= 7 S

E= 3%
 S= 75

Sounding 110102 : Ver 2



SOUNDING: 110102 : Vers 2
Y110/102 25 Hz

110102A

~~7.4 ohm.m~~ ~~8.1 m~~ 8.1 m.

~~7.4~~

(478 ohm.m) * 199 m.

(478)

_____ * 207 m.

57.2 ohm.m 104 m.

57.2

_____ * 311 m.

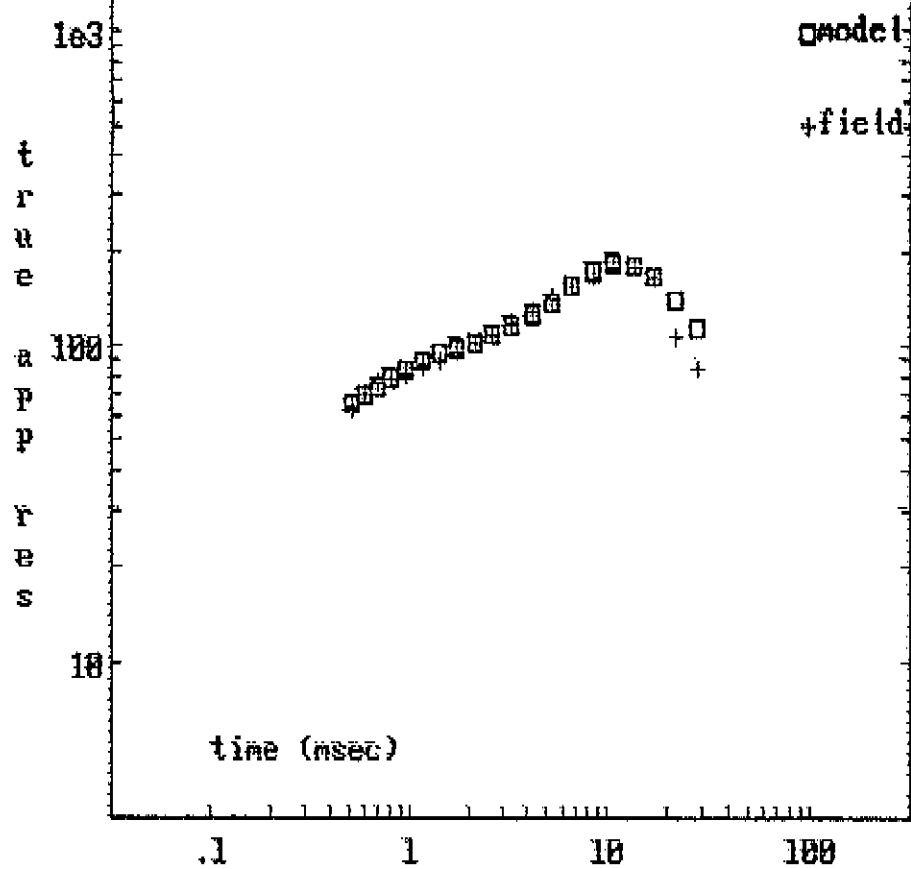
(1901 ohm.m)

(1901)

STD ERR= 3.4% : S= 3 S

E= 3%
S= 35

Sounding 110102 : Ver c



SOUNDING: 110102 : Vers c
Y110/102 6.25 Hz loop corrected

110102A

~~38.3 ohm.m~~ ~~41.8 m~~ 41.6 m.

~~38.3~~

x 158 ohm.m x 710 m.

x 158

_____ * 752 m.

(687 ohm.m) 481 m.

(687)

_____ * 1233 m.

3.6 ohm.m

3.6

STD ERR= 3.8% : S= 6 S

E= 4%

S= 65

Sounding 110104 : Ver 1

□model

+field

1e3

100

10

line (msec)

.1

1

10

100

t
r
u
e

a

p
p

r
e
s

SOUNDING: 110104 : Vers 1
Y110/104 25 Hz

~~2.9 ohm.m~~ ~~2.9 m.~~ 2.3 m.

* 48.5 ohm.m * 208 m.

_____* 208 m.
(1979 ohm.m)

STD ERR= 2 2% : S= 5 5

110104A

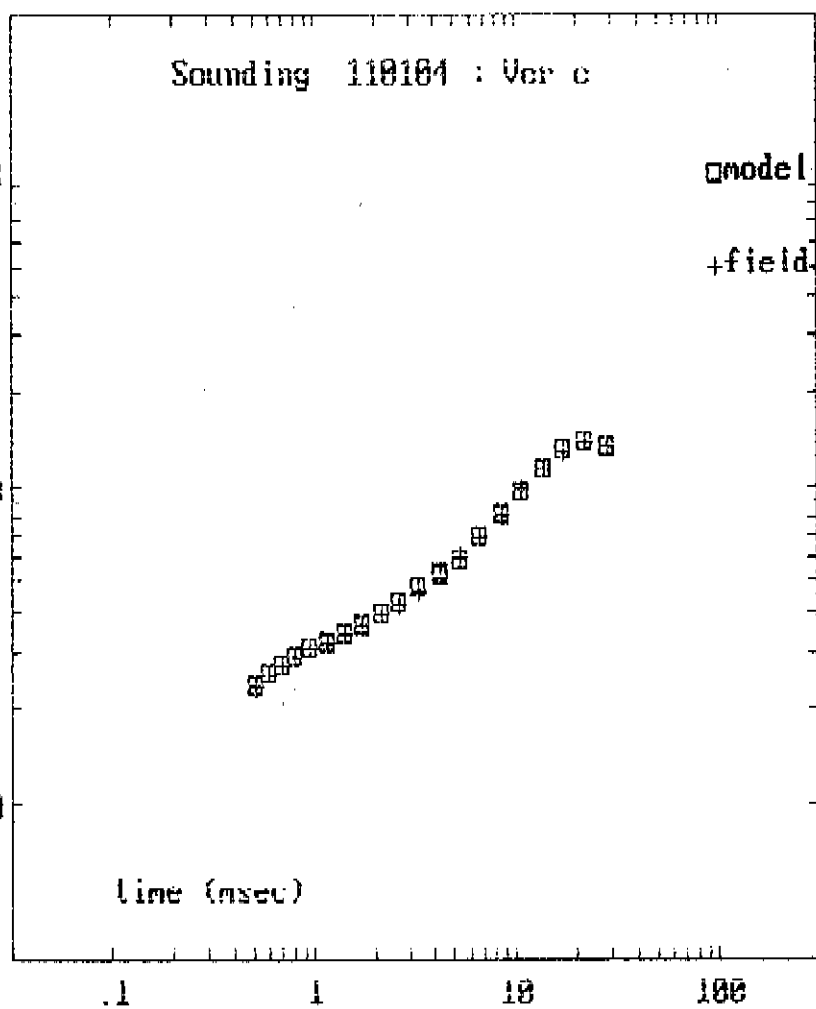
~~2.9~~

* 48.5

(1973)

E= 2%
S= 55

true
app
res



SOUNDING: 110104 : Vers c
Y110/104 6.25 Hz loop connected

~~8.8 ohm.m~~ ~~8.1 m~~ 8.1 m.
* 51.8 ohm m * 244 m.
* 252 m.

(1041 ohm m) * 1146 m

* 1398 m.
2.7 ohm.m

STD ERR= 1.6% : S= 7.6

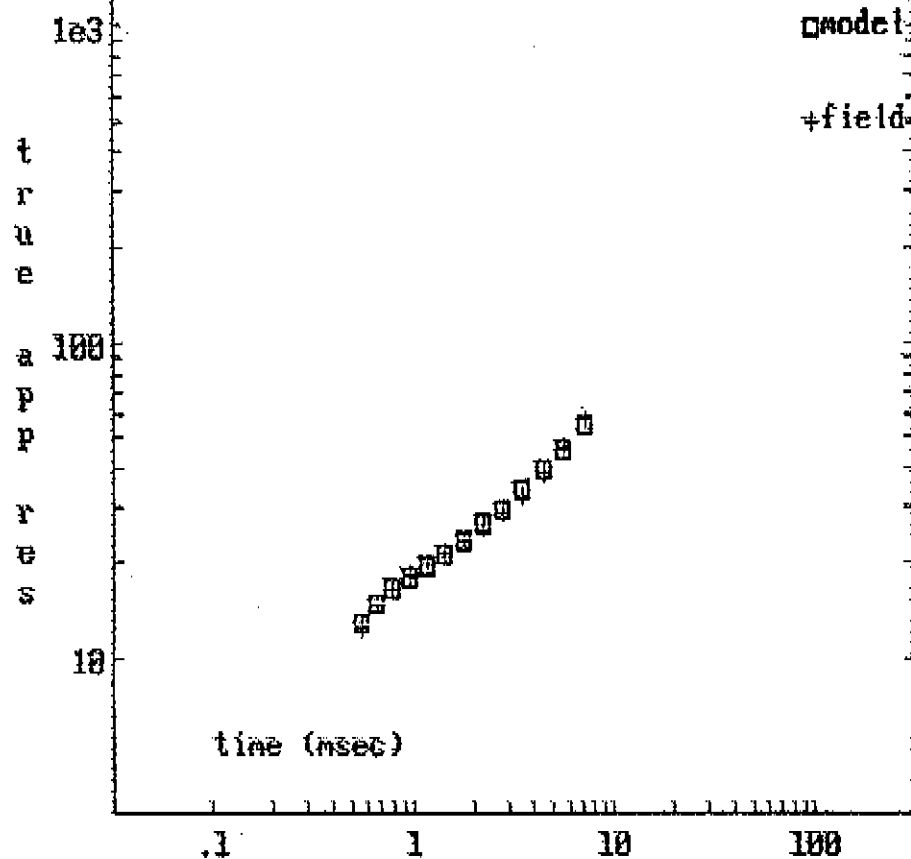
110104A
~~8.8~~
* 51.8

(1041)

2.7

E= 2%
S= 7.6

Sounding 110106 : Ver 1



SOUNDING: 110106 : Vers 1
Y110/106 25 Hz

110106A

~~5.1 ohm.m~~ ~~6.8 m.~~ 6.9 m.

~~5.1~~

* 27.3 ohm.m * 132 m.

* 27.3

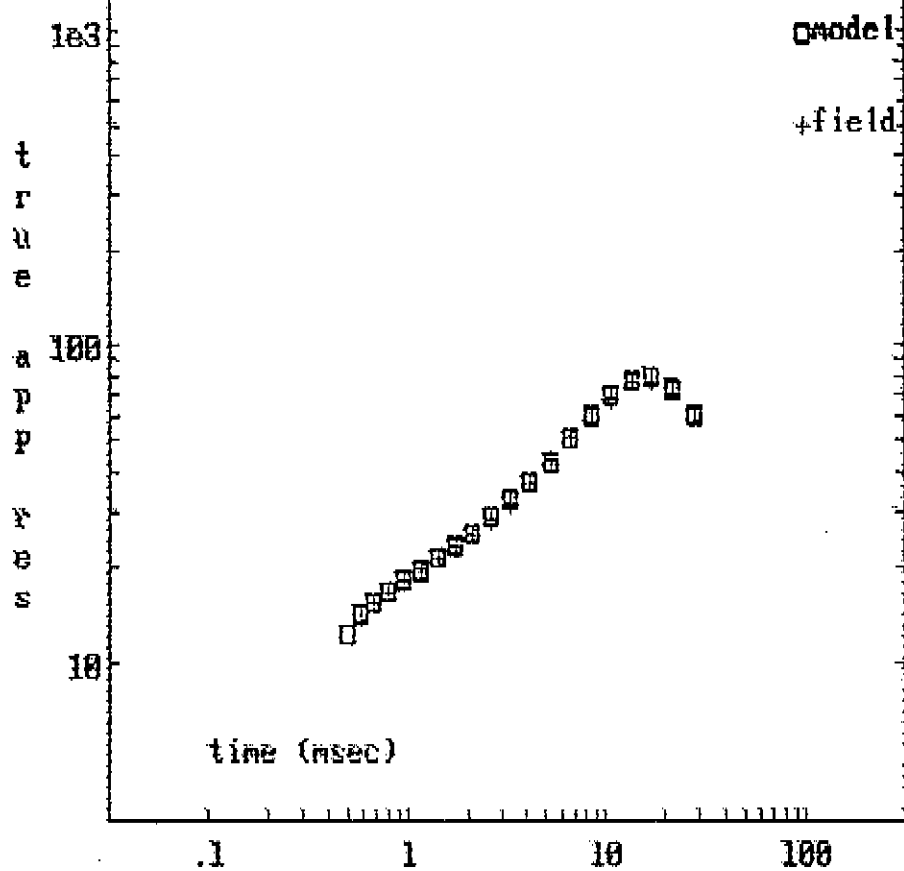
_____* 139 m.
(1000 ohm.m)

(1000)

STD ERR= 2.6% : S= 6 S

E= 3%
S= 65

Sounding 110106 : Ver c



SOUNDING: 110106 : Vers c
 Y110/106 6.25 Hz loop corrected

* 11.7 ohm.m	* 25.9 m	* 25.9 m.
* 30.8 ohm.m	* 122 m	* 147 m

110106A

* 11.7
* 30.8

(388 ohm.m) * 794 m.

(388)

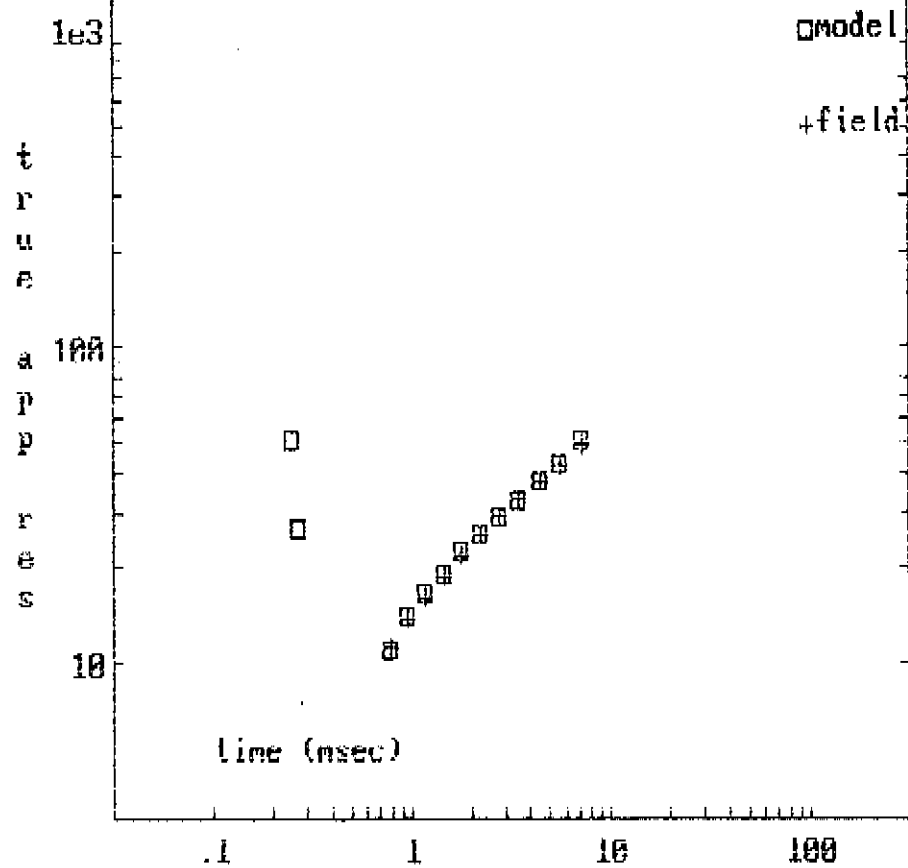
_____ * 942 m
 4.1 ohm.m

_____ 4.1

STO ERR- 2.2% : G- B G

E= 2%
 S= 85

Sounding 110108 : Ver 1



SOUNDING: 110108 : Vers 1
Y110/108 25 Hz

~~1.2 ohm.m~~ ~~8.5 m.~~ 3.5 m.

* 72.6 ohm.m * 341 m.

_____* 344 m.
(1851 ohm.m)

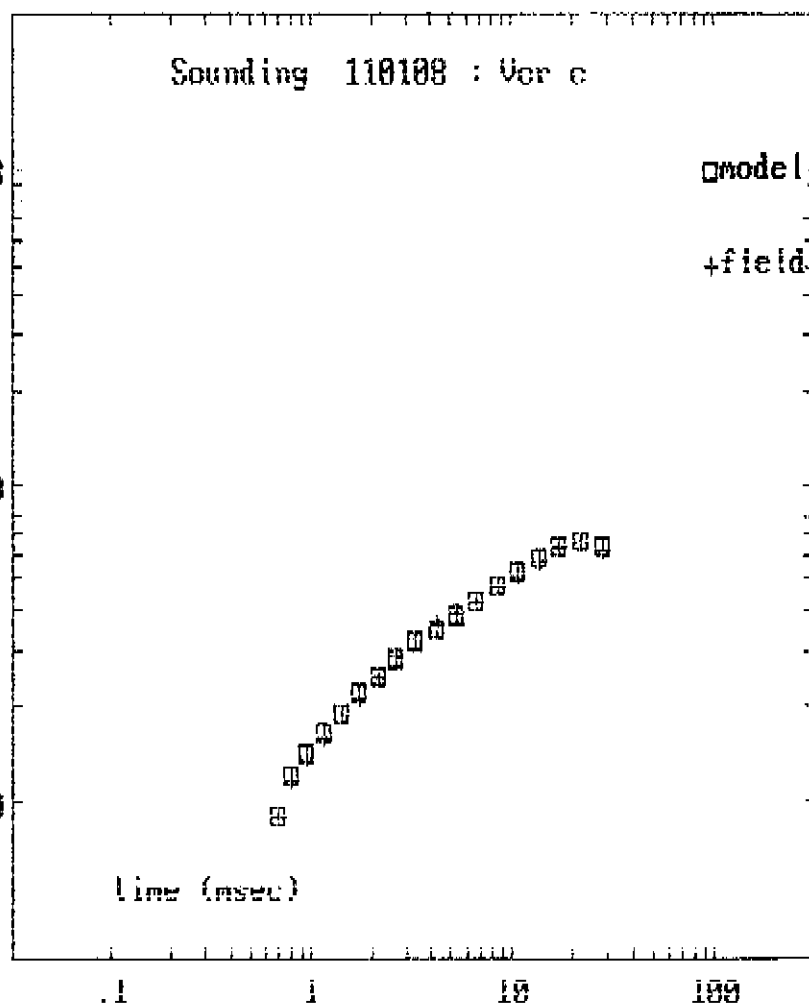
STD ERR= 2.1% : S= 8 8

110108A
~~1.2~~

* 72.6

(1851)

E= 2%
S= 85



SOUNDING: 110108 : Vers c
Y110/108 6.25 Hz loop connected

110108A

~~* 5.5 ohm.m * 18.5 m. 18.5 m.~~

~~* 5.5~~

* 83.5 ohm.m * 1114 m.

* 83.5

_____ * 1132 m.

* 3.6 ohm.m

_____ * 3.6

STU ERR= 2.4% : S= 17.5

E= 2%

S= 175

Sounding 110110 : Ver 1

model

+field

time
app
r
e
s

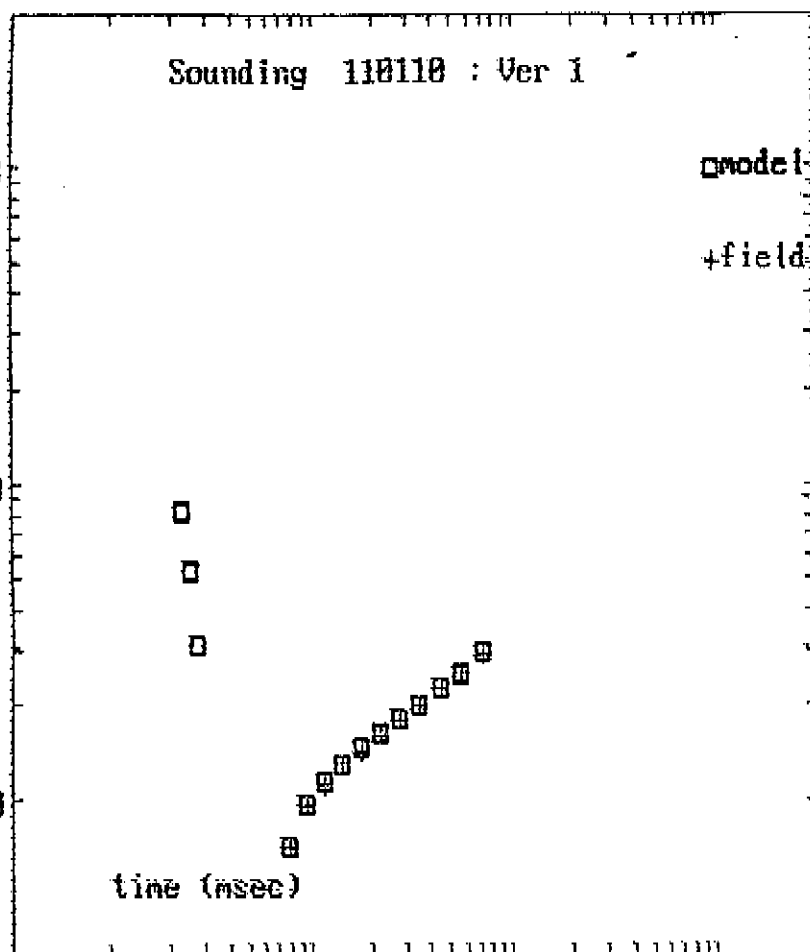
1e3

100

10

time (msec)

.1 1 10 100



SOUNDING: 110110 : Vers 1
Y110/110 25 Hz

110110A

~~1.5 ohm.m~~ ~~4.5 m~~ 4.6 m.

~~1.5~~

* 32.9 ohm.m * 231 m.

* 32.9

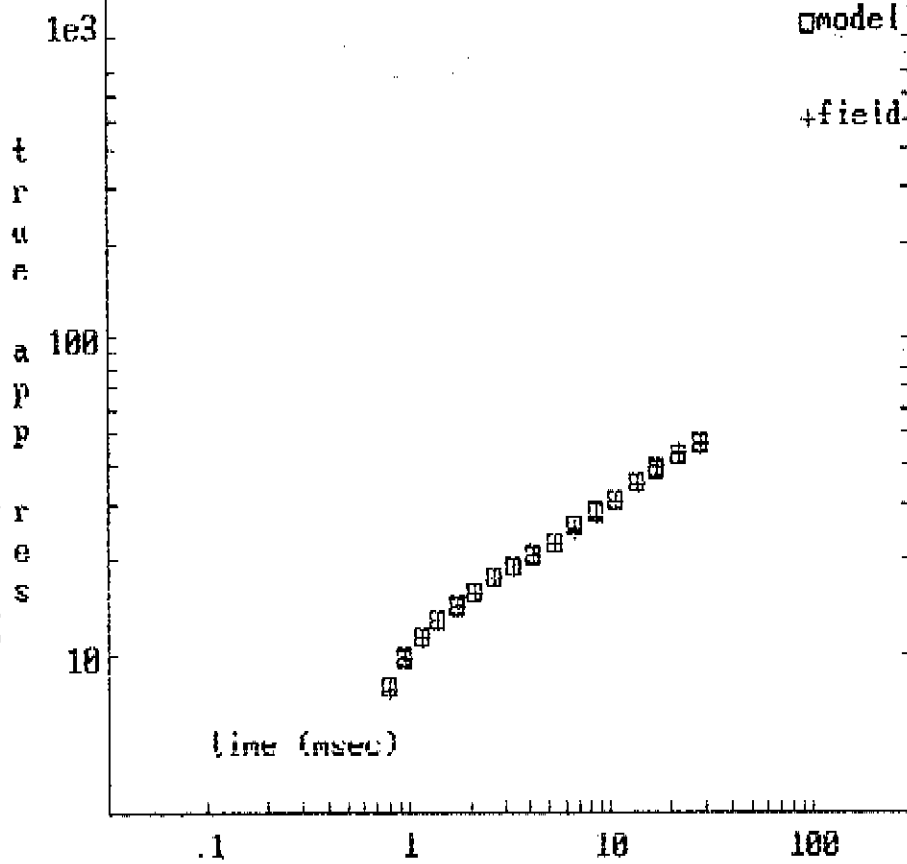
~~(1859 ohm.m)~~ * 235 m.

~~(1859)~~

STD ERR= 1.0% : S= 10 S

E= 1%
S= 10S

Sounding 110110 : Ver c



SOUNDING: 110110 : Vers c
Y110/110 6.25 Hz loop corrected

~~* 5.9 ohm.m~~ ~~* 25.0 m~~ 25.0 m

* 40.6 ohm.m * 343 m.

----- * 368 m.

974 ohm.m * 535 m.

----- * 903 m.

(44.4 ohm.m)

STD ERR= 1.7% : S= 13 S

110110A

~~* 5.9~~

* 40.6

974

(44.4)

E= 2%

S= 135

Sounding 110112 : Ver 1

1e3

□ model

+ field

100

time (nsec)

10

.1

1

10

100

SOUNDING: 110112 : Vers 1
Y110/112 25 Hz

~~2.5 ohm.m~~ ~~7.1 m~~ 7.1 m.
* 9.9 ohm.m * 84.4 m.
* 91.5 m.
(1893 ohm.m)

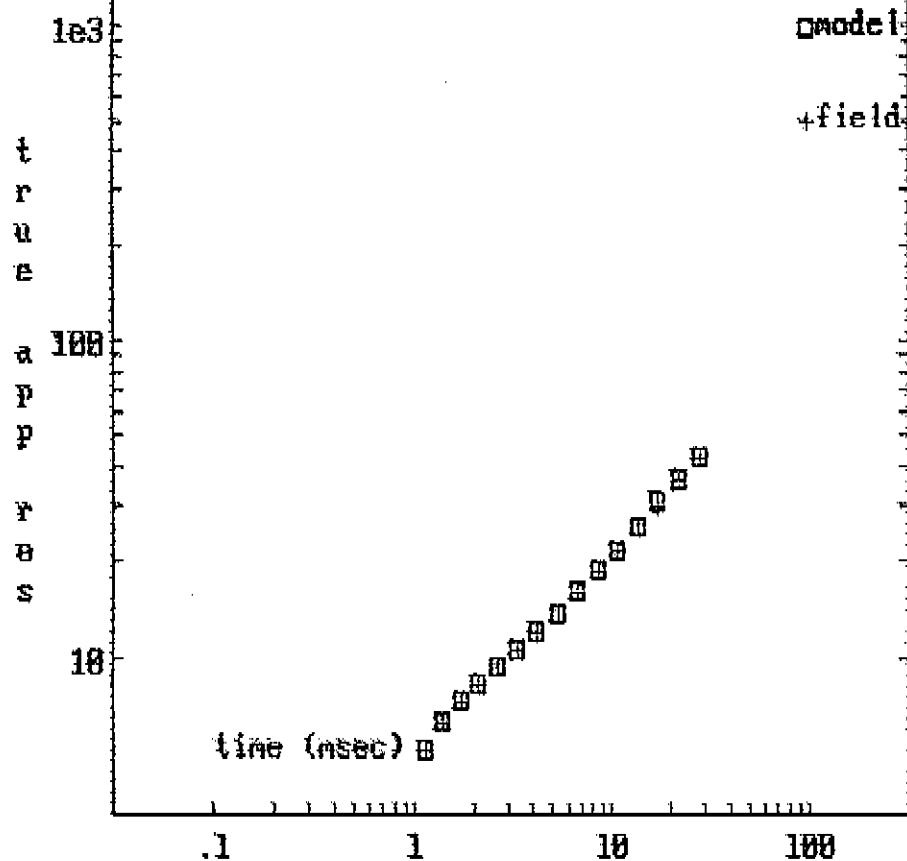
SID ERR= .6% : S= 11 S

110112A

~~2.5~~
* 9.9
(1893)

E= 1%
S= 115

Sounding 118112 : Ver c



SOUNDING: 110112 : Vers c
 Y110/112 6.25 Hz loop corrected

* 5.5 ohm.m	* 48.6 m	48.6 m.
48.9 ohm.m	191 m.	
		238 m.

110112A
~~* 5.5~~
 48.9

(1142 ohm.m) (828 m.)

(1142)

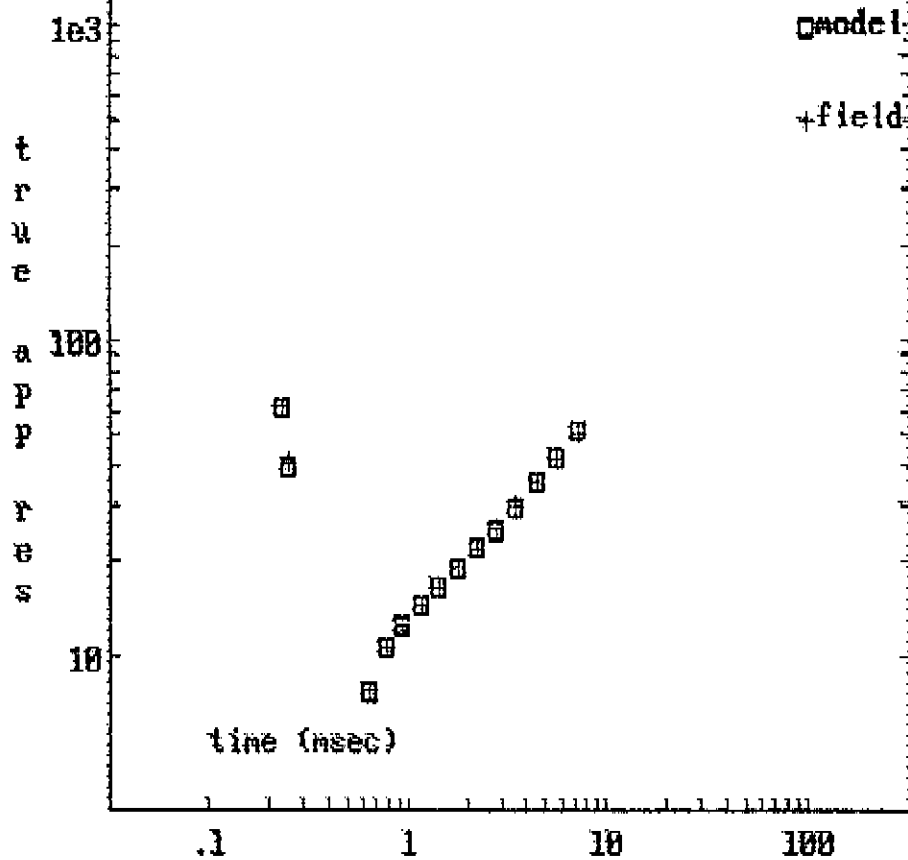
----- (1054 m.)
 (147 ohm.m)

 (147)

STD ERR= .8% : S= 14 S

E= 1%
 S= 145

Sounding 112108 : Ver 1



SOUNDING: 112108 : Vers 1
Y112/108 25 Hz

112108A

* 7.8 ohm.m	22.6 m	22.6 m.
23.8 ohm.m	* 76.0 m.	
		* 98.5 m.
* 1728 ohm.m		

* 7.8
23.8
* 1728

STD ERR= 1.7% : S= 6 S

E= 2%
S= 65

Sounding 112108 : Ver c

□ model

+ field

1e3

100

10

time (msec)

.1

1

10

100

t
r
a
n
s
p
r
e
s
s

SOUNDING: 112108 : Vers c
 Y112/108 6.25 Hz loop corrected

112108A

~~* 7.8 ohm.m 32.3 m 32.3 m~~
 71.2 ohm.m 199 m.
 291 m.

~~* 7.8~~
 71.2

(432 ohm.m) * 1030 m.

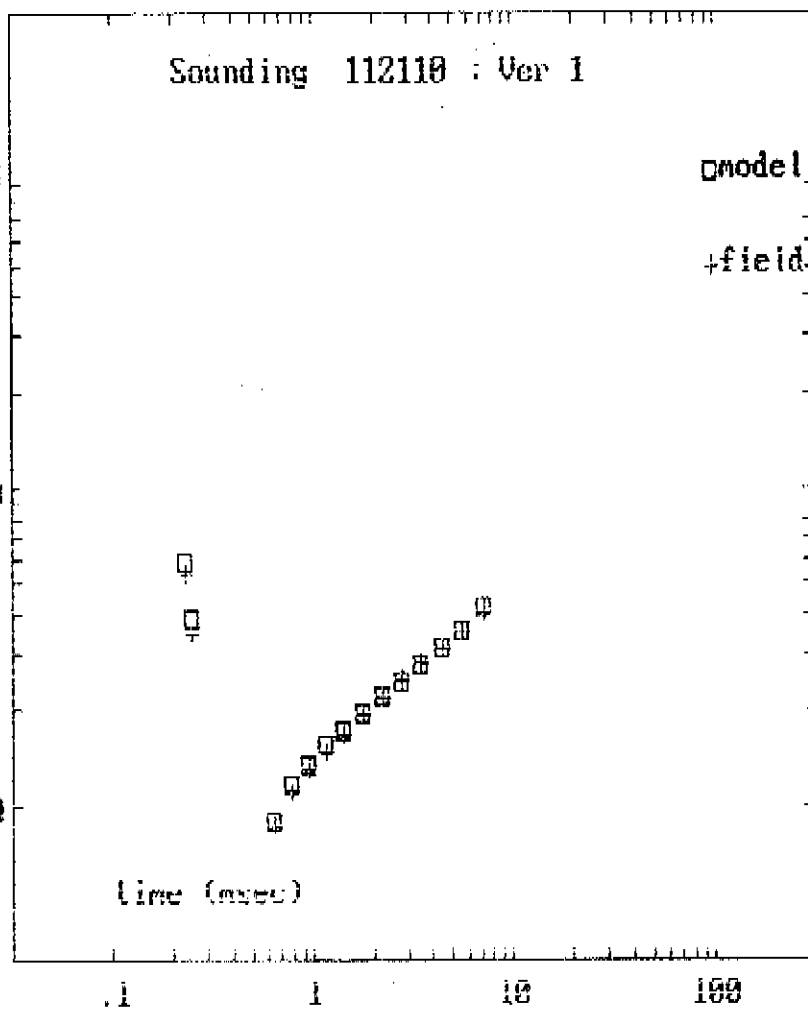
(432)

_____* 1282 m.
 (69.7 ohm.m)

 (69.7)

STD ERR= 1.8% . S= 9 S

E= 2%
 S= 95



SOUNDING: 112110 : Vers 1
Y112/110 25 Hz

* 9.2 ohm.m	* 39.0 m
-------------	----------

* 39.0 m.

* 70.8 ohm.m * 316 m

(1545 ohm.m) * 355 m.

STD ERR= 2.7% : S= 9 S

112110A

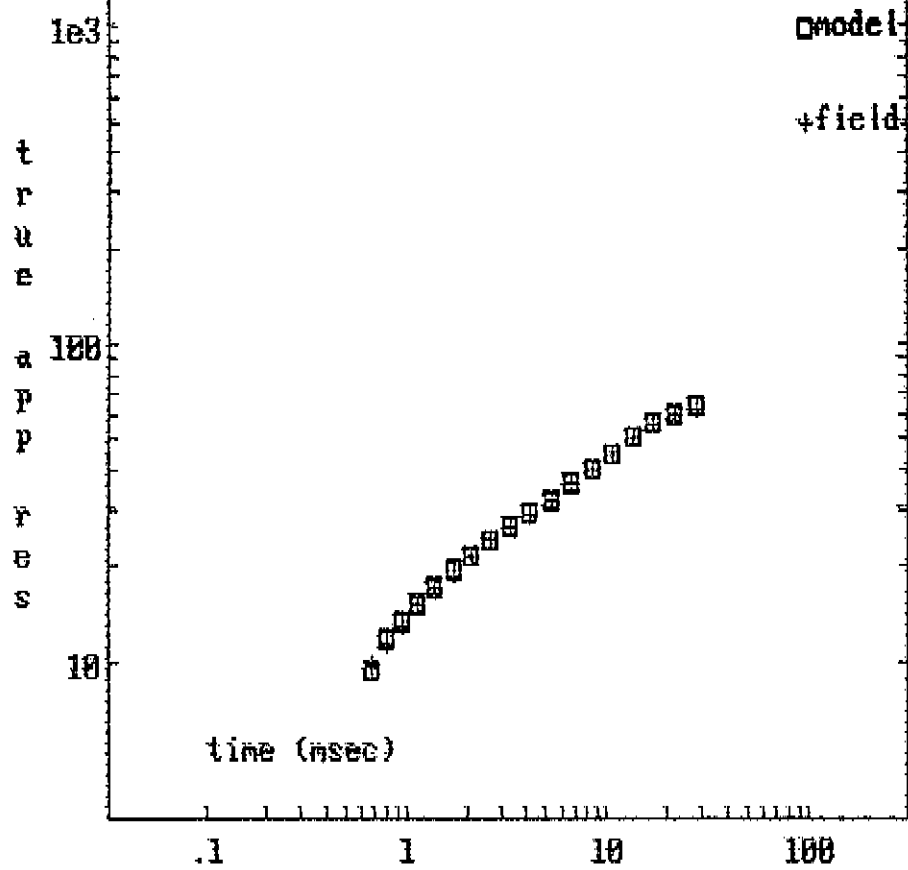
* 9.2

* 70.8

(1545)

E= 3%
S= 95

Sounding 112110 : Ver c



SOUNDING: 112110 : Vers c
Y112/110 6.25 Hz loop corrected

112110A

~~* 8.9 ohm.m * 36.8 m.~~

~~* 8.9~~

* 69.8 ohm.m * 474 m.

* 69.8

-----* 511 m.

1100 ohm.m * 581 m.

1100

-----* 1092 m.

(28.1 ohm m)

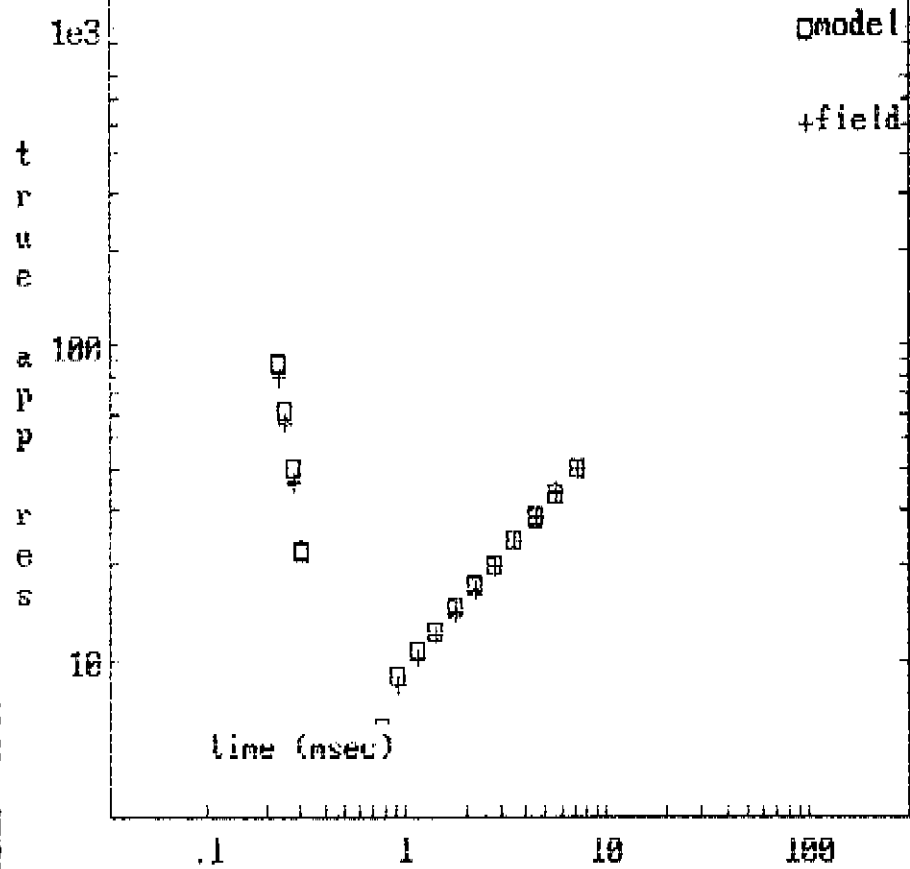
(28.1)

STD ERR= 1.7% : S= 11 S

E= 2%

S= 115

Sounding 112112 : Ver 2



SOUNDING: 112112 : Vers 2
Y112/112 25 Hz

* 7.3 ohm.m	* 43.7 m.
248 ohm.m	* 43.7 m

STD ERR= 4.0% : S= 6.8

112112A

* 7.3
248

E= 4%
S= 6.8

Sounding 112112 : Ver c

1e3

□ model

+ field

t
r
u
e
a
p
p
r
e
s

100

10

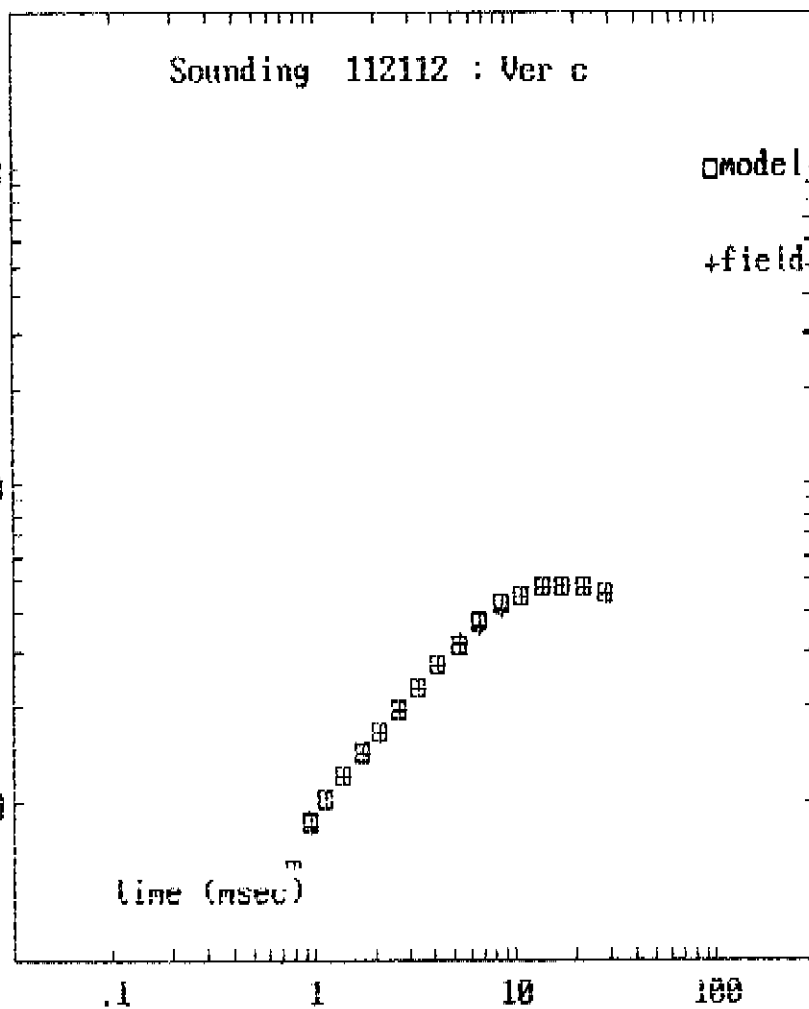
time (msec)

.1

1

10

100



SOUNDING: 112112 : Vers c
 Y112/112 6.25 Hz loop corrected

112112A

* 6.8 ohm.m * 39.6 m. 39.6 m.

* 6.8

205 ohm.m * 553 m.

205

* 25.1 ohm.m * 592 m.

* 25.1

STD ERR= 1.7% : S= 9 S

E= 2%
 S= 95

Sounding 114188 : Ver 1

1e3

model

+field

100

10

time (msec)

.1

1

10

100

SOUNDING: 114108 : Vers 1
Y114/108 25 Hz

~~* 3.1 ohm.m~~ ~~* 7.7 m~~ 7.7 m

* 117 ohm.m 838 m.

1181 ohm.m 846 m.

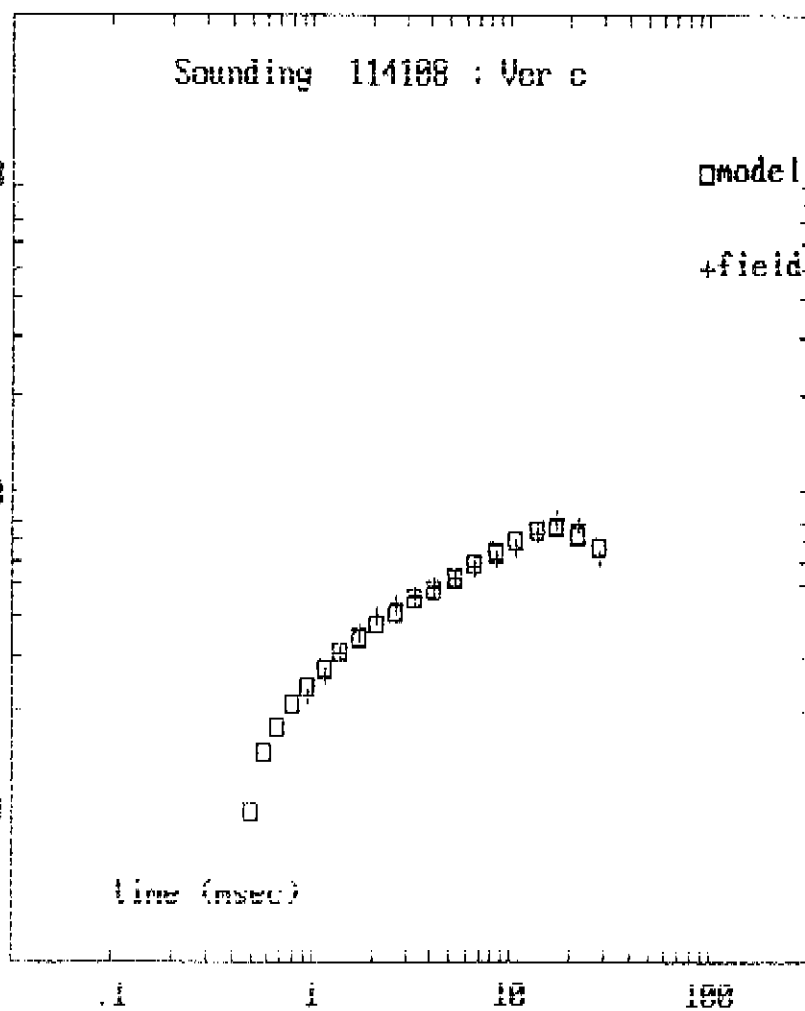
STD ERR- 1.7% : S= 10 S

114108A
~~* 3.1~~

* 117

1181

E= 2%
S= 105



SDUNDING: 114108 : Vers c
Y114/108 6.25 Hz loop corrected

~~* 3.5 ohm.m * 7.8 m 7.8 m.~~

114108A
~~* 3.5~~

* 85.9 ohm.m * 1036 m.

* 85.9

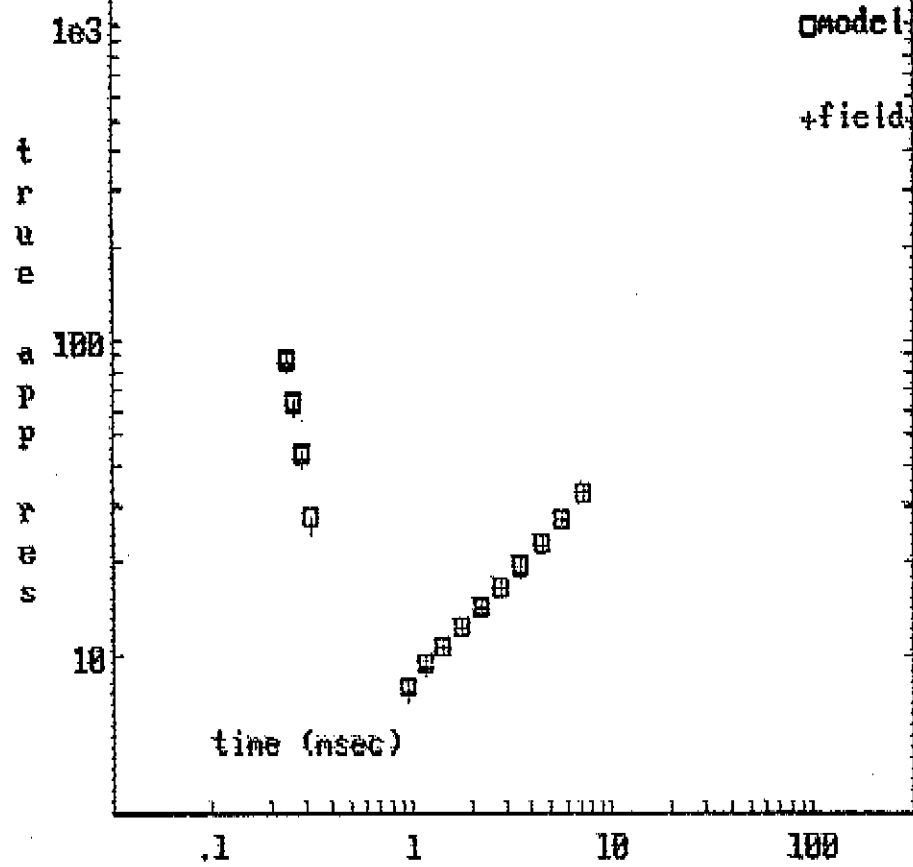
_____* 1044 m.
* 3.5 ohm.m

* 3.5

STD ERR= 7.0% : S= 14.5

E= 7%
S= 14.5

Sounding 114110 : Ver 1



SOUNDING: 114110 : Vers 1
Y114/110 25 Hz

* 8.0 ohm.m	* 57.0 m.
273 ohm.m	* 57.0 m.

114110A

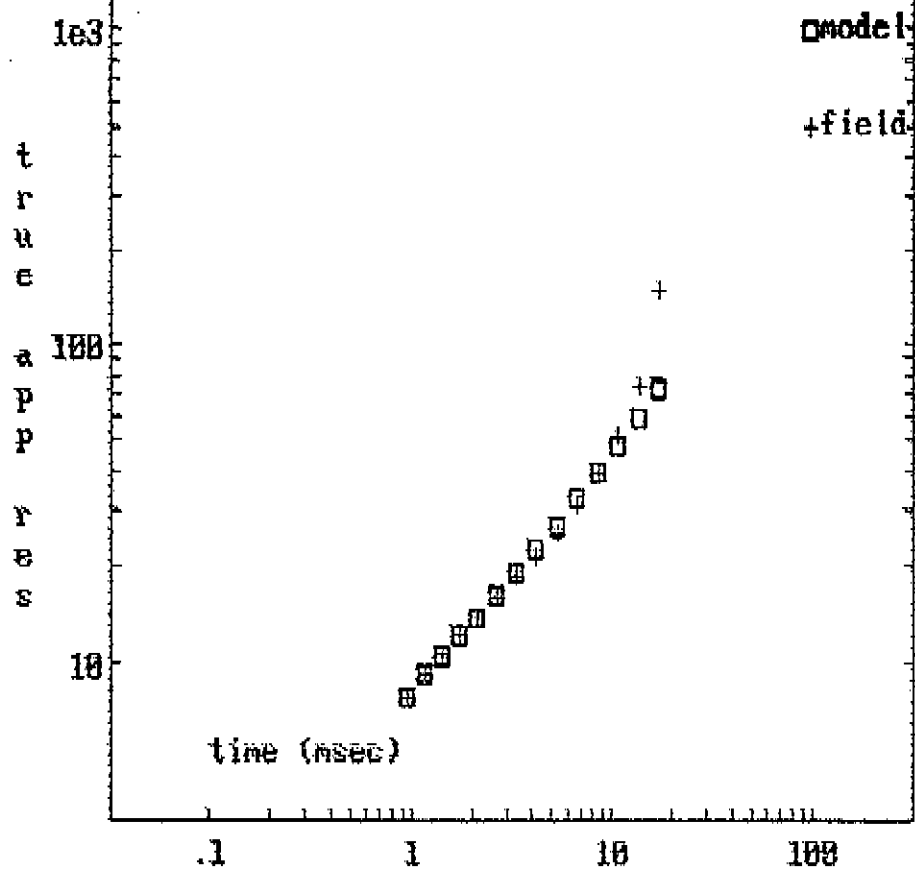
* 8.0

273

STD ERR= 2.7% : S= 7 S

E= 3%
S= 7S

Sounding 114110 : Ver 2



SOUNDING: 114110 : Vers 2
Y114/110 6.25 Hz

114110A

* B.0 ohm.m * 58.1 m.

* 58.1 m.
(1396 ohm.m)

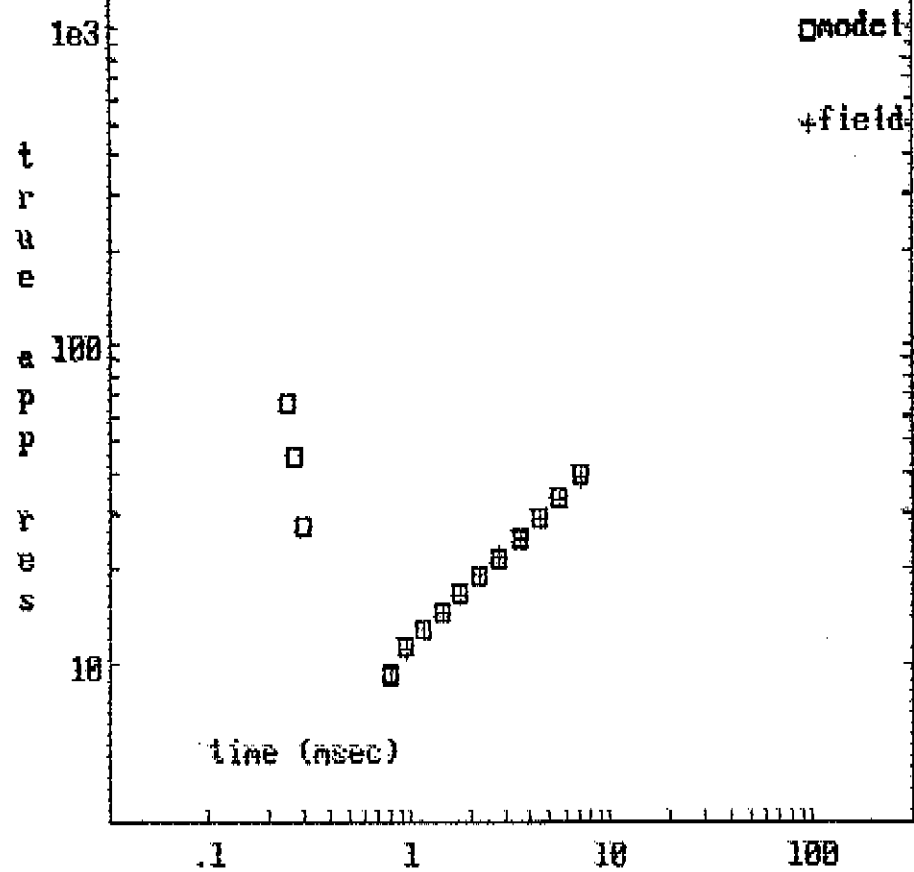
* B.0

(1396)

STD ERR= 3.9% : S= 7 S

E= 4%
S= 75

Sounding 114112 : Ver 1



SOUNDING: 114112 : Vers 1
Y114/112 25 Hz

114112A

* 8.5 ohm.m * 41.8 m.
* 41.8 m.

* 8.5

75.0 ohm.m 220 m.

75.0

262 m.
(492 ohm.m)

(492)

STD ERR= 1.2% : S= 8 S

E= 1%

S= 8S

Sounding 114112 : Ver c

1e3

□model

+field

t
r
u
e

100

a
p
p

r
e
s

10

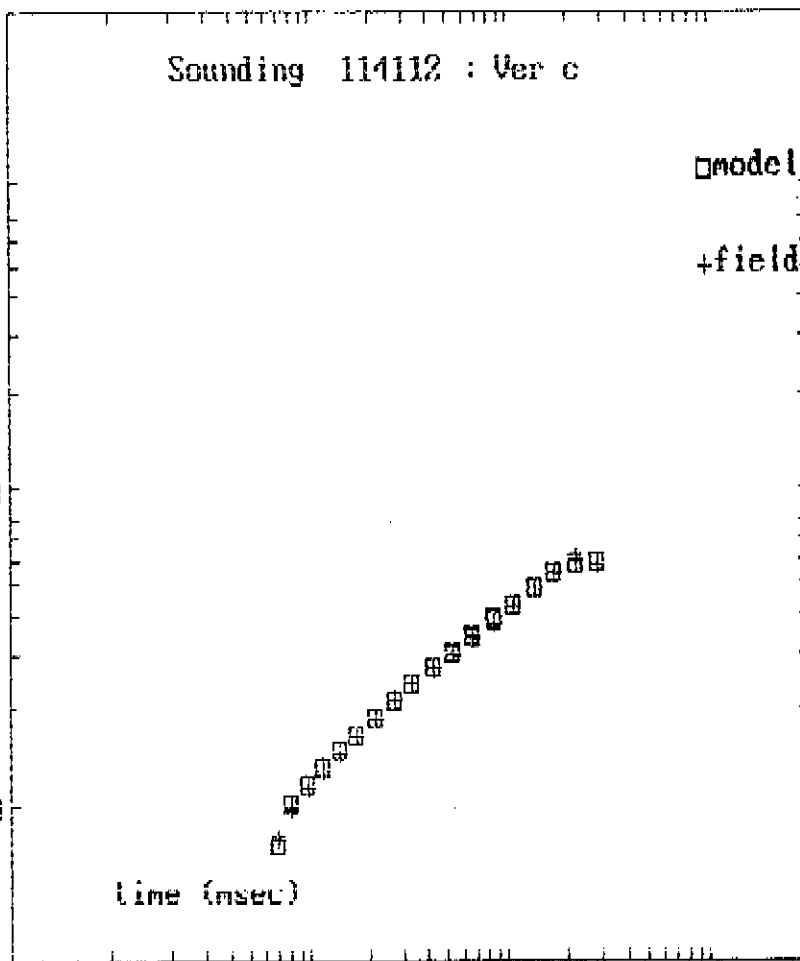
time (msec)

.1

1

10

100



SOUNDING: 114112 : Vers c
Y114/112 6.25 Hz loop corrected

114112A

* 48.7 m 48.7 m

* 48.7 m

* 90.0 ohm.m * 1069 m

* 90.0

* 1117 m
(4.9 ohm.m)

* 1117 m
(4.9)

STD ERR= 1.9% : S= 17 S

E= 2%
S= 175

Sounding 114114 : Ver 1

1e3

□ model

+ field

100

10

time (msec)

.1

1

10

100

SOUNDING: 114114 : Vers 1
Y114/114 25 Hz

* 9.2 ohm.m * 59.0 m.
----- * 59.5 m.

47.9 ohm.m 155 m.

(271 ohm.m) 215 m

STD ERR= 2.2% : S= 10 S

114114A

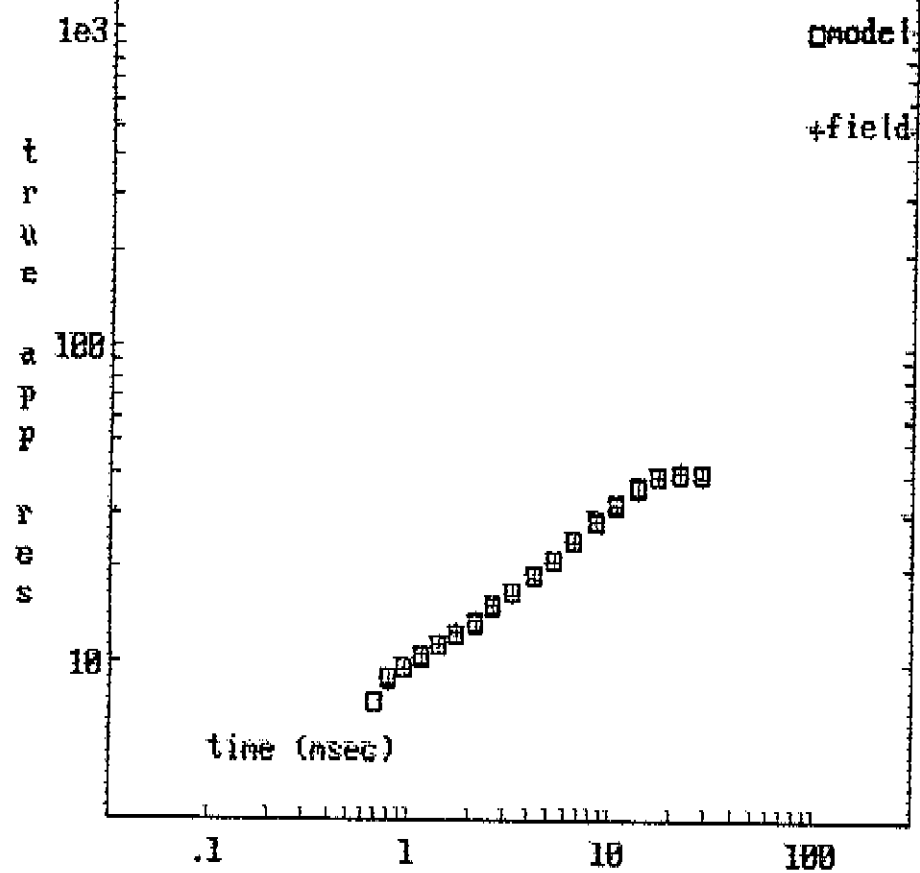
* 9.2

47.9

(271)

E= 2%
S= 105

Sounding 114114 : Ver c



114144

¥ 10.4

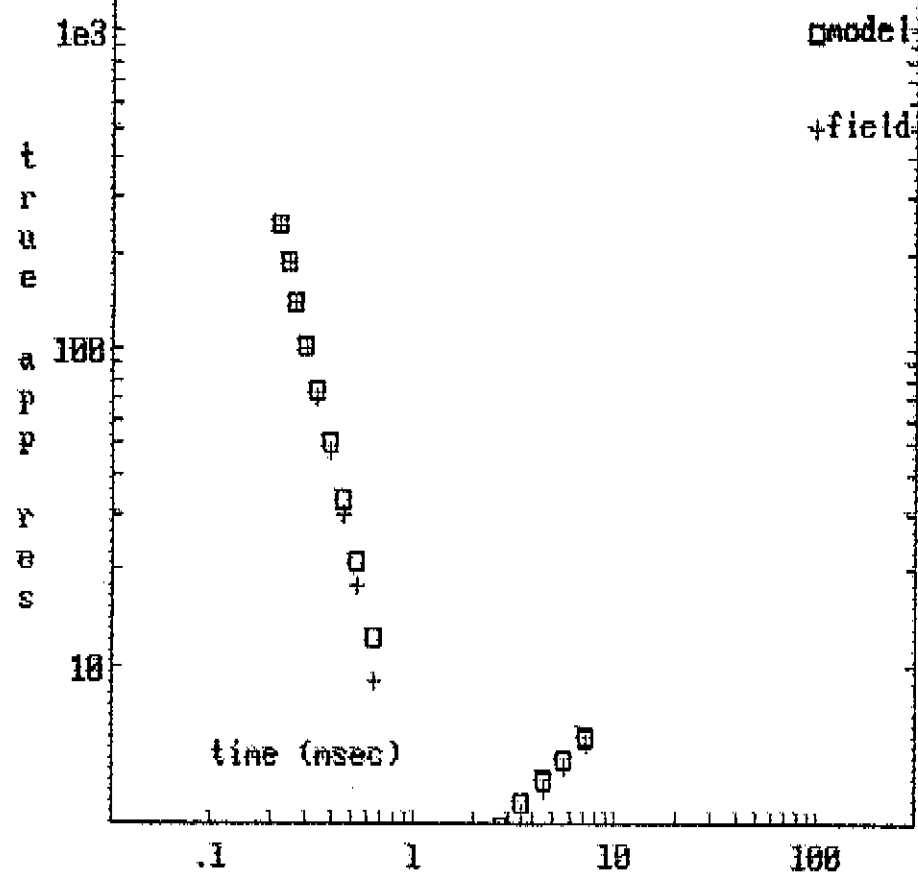
* 97.6

(6.4)

E = 2%
E = 165

E = 2%
E = 165

Sounding 114116 : Ver 1



SOUNDING: 114116 : Vers 1
Y114/116 25 Hz

* 2.8 ohm.m * 55.2 m.
-----* 55.2 m.
(100 ohm.m)

114116A

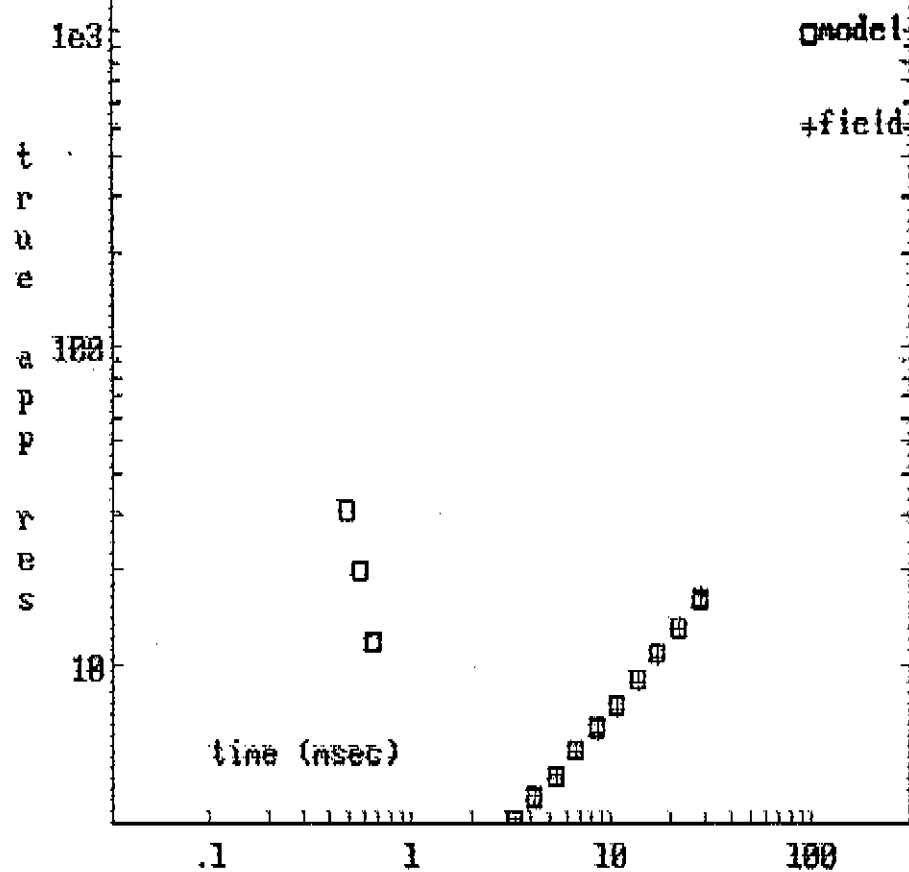
* 2.8

(100)

STD ERR=10.7% : S= 20 S

E=11%
S= 20S

Sounding 114116 : Ver 2



SOUNDING: 114116 : Vers 2
Y114/116 6.25 Hz

114116A

* 2.3 ohm.m * 42.8 m.
----- * 42.8 m.

* 2.3

(71.8 ohm.m) (88.8 m.)

(71.8)

----- (131 m.)
(258 ohm.m)

(258)

STD ERR= 2.8% : S= 20 S

E= 3%
S= 20S

Sounding 116108 : Ver 1

1e3

□model

+field

t
r
u
e

100

a
p
p

r
e
s

10

time (msec)

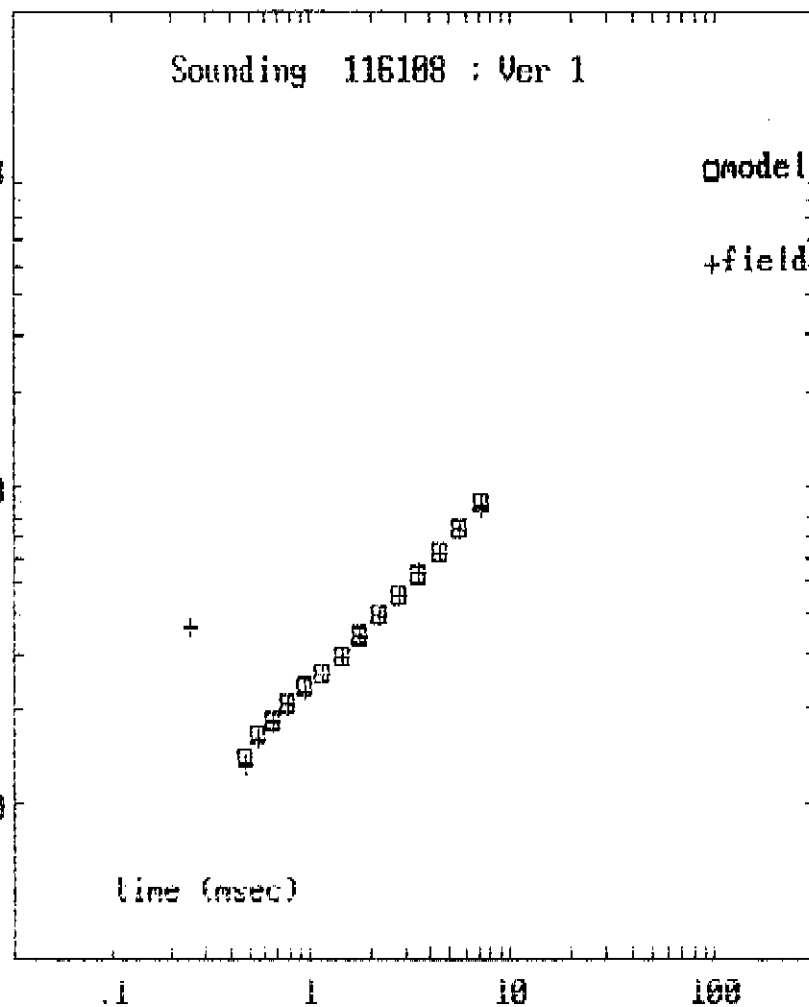
.1

1

10

100

+



SOUNDING: 116108 : Vers 1
Y116/108 25 Hz

* 17.6 ohm.m	* 69.7 m.
* 447 ohm m	* 60.7 m.

STD ERR= 2.9% : S= 4 3

116108A

* 17.6
* 447

E= 9%
S= 45

Sounding 116108 : Ver c

1e3

□model

+field

1000

10

Time (nsec)

.1

1

10

100

t
r
u
e
a
s
p
r
e
s

SOUNDING: 116108 : Vers c
Y116/108 6.25 Hz loop connected

116108A

~~* 14 H ohm m~~ ~~* 49 H m~~ 49.3 m.

~~* 14 H~~

* 174 ohm.m * 1449 m.

* 174

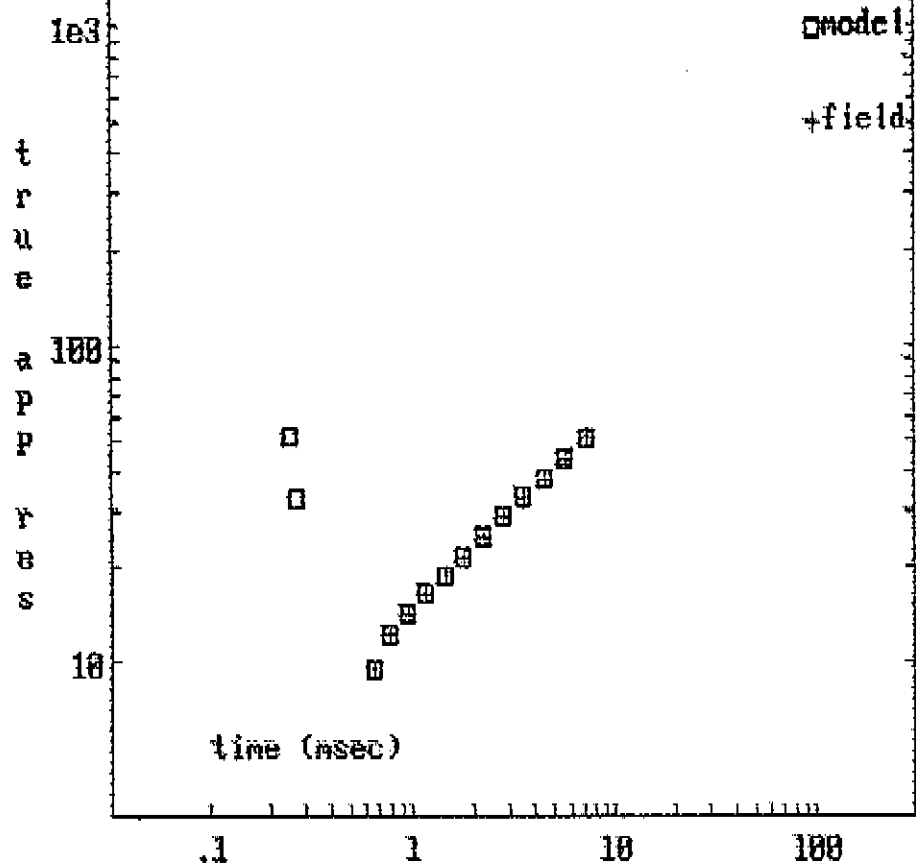
-----* 1499 m.
(9.3 ohm.m)

(9.3)

STD ERR= 2.7% : S- 12 S

E= 3%
S= 125

Sounding 116110 : Ver 1



SOUNDING: 116110 : Verb 1
Y116/110 25 Hz

116110A

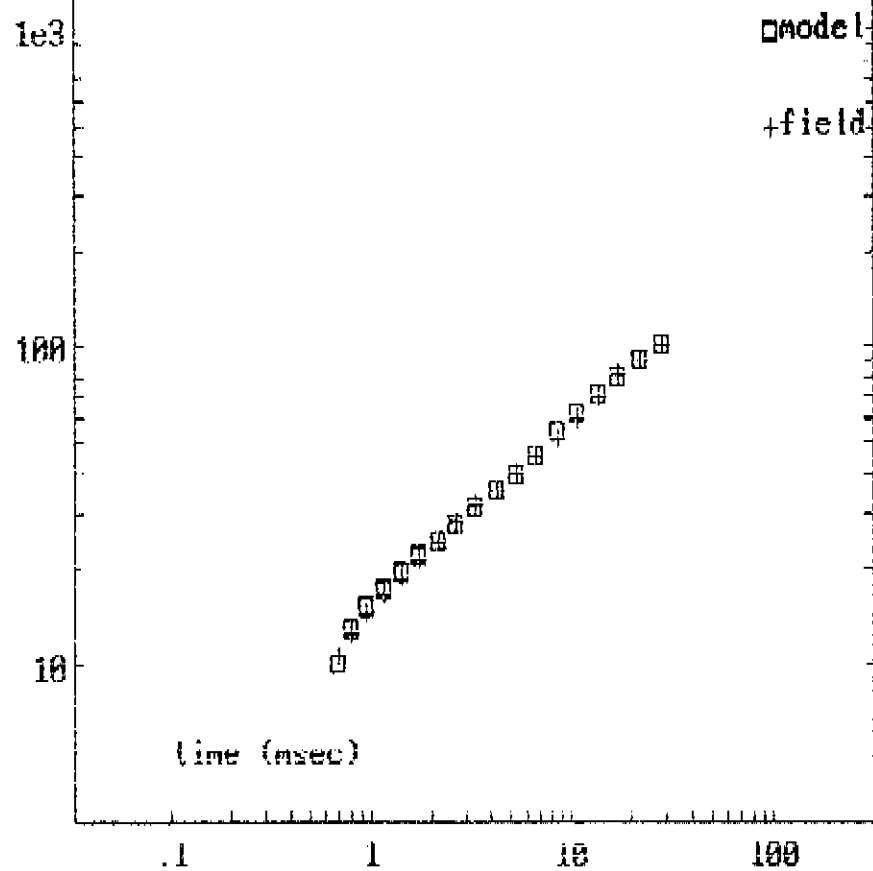
* 9.5 ohm.m	* 41.9 m.
* 137 ohm.m	* 41.9 m.

* 9.5
* 137

STD ERR= 1.1% : S= 4 S

E= 1%
S= 4S

Sounding 116110 : Ver c



SOUNDING: 116110 : Vers c
 Y116/110 6.25 Hz loop corrected

~~2.0 ohm.m~~ ~~0.1 m. 8 1 m.~~
 * 58.7 ohm m * 275 m
 ----- * 283 m.

(7856 ohm.m) 593 m.

----- 876 m.
 172 ohm.m

STD ERR= 3.6% : S= A S

116110A

~~2.0~~
 * 58.7

(7856)

 172

E= 4%
 S= 85

Sounding 116112 : Ver 1

1e3

□model

+field

t
r
u
e
a
p
p
r
e
s

100

10

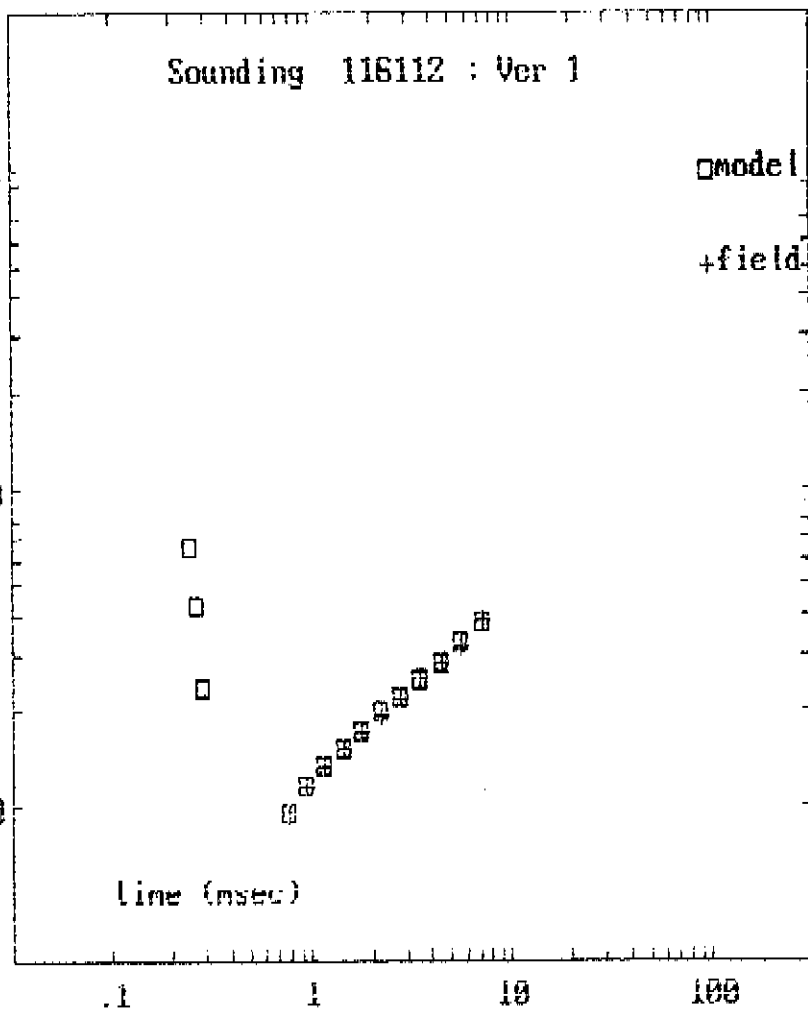
line (msec)

.1

1

10

100



SOUNDING: 116112 : Vers 1
Y116/112 25 Hz

<u>x 7 2 ohm m</u>	<u>x 30.9 m</u>	
		x 30.9 m

69.2 ohm.m 278 m.

<u>(490 ohm.m)</u>	309 m
---------------------	-------

STD ERR= .8% : S= 9 S

116112A

<u>x 7 2</u>

69.2

<u>(490)</u>

S= 14
S= 95

Sounding 116112 : Ver c

model

+field

time
app
r
e
s

1e3

100

10

time (msec)

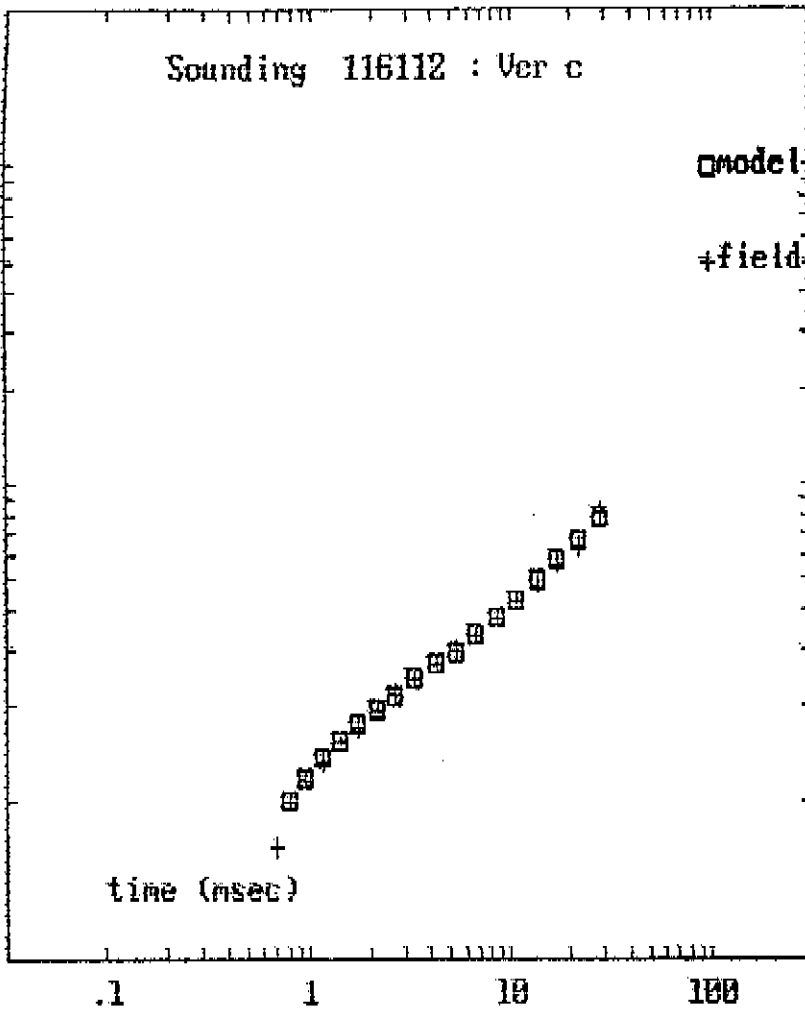
.1

1

10

100

+



SOUNDING: 116112 : Vers c
Y116/112 6.25 Hz loop corrected

1614

* 7.0 mm. m * 29.3 m. * 29.3 m.

* 7.0

* 61.5 ohm.m * 360 m.

* 61,5

_____ * 380 m.
(861 phm.m)

(861)

STD ERR= 2.8% ; S= 10.3

E= 3%
S= 105

Sounding 116114 : Ver 1

1e3

□model

+field

t
r
u
e

a
p
p
r
e
s

100

10

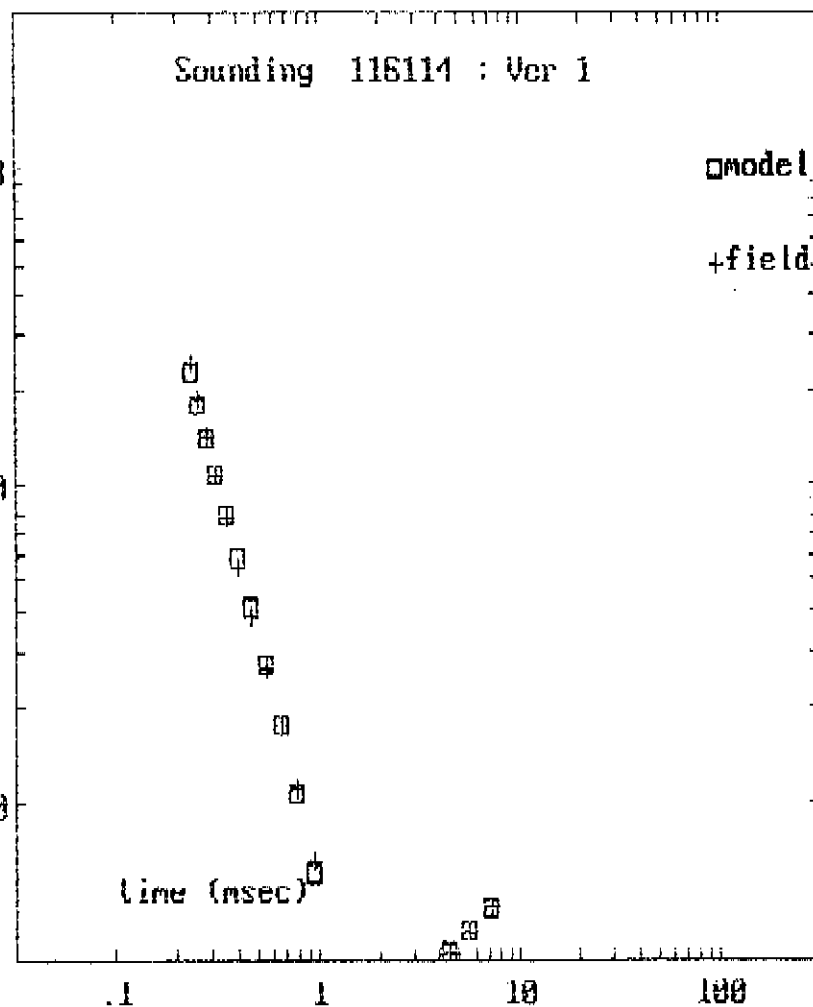
time (msec)

.1

1

10

100



SOUNDING: 116114 : Vers 1
Y116/114 25 Hz

(83.0 ohm.m)	* 11.5 m	11.5 m.
* 1.7 ohm.m	* 38.8 m.	
		* 59.3 m.
(101 ohm.m)		

STN FRR= 4.0% S= 23 S

116114A

(83.0)
* 1.7
(101)

E= 4%
S= 23S

Sounding 116114 : Ver 2

1e3

model

+field

t
r
u
e

100

a
p
p
r
e
s

10

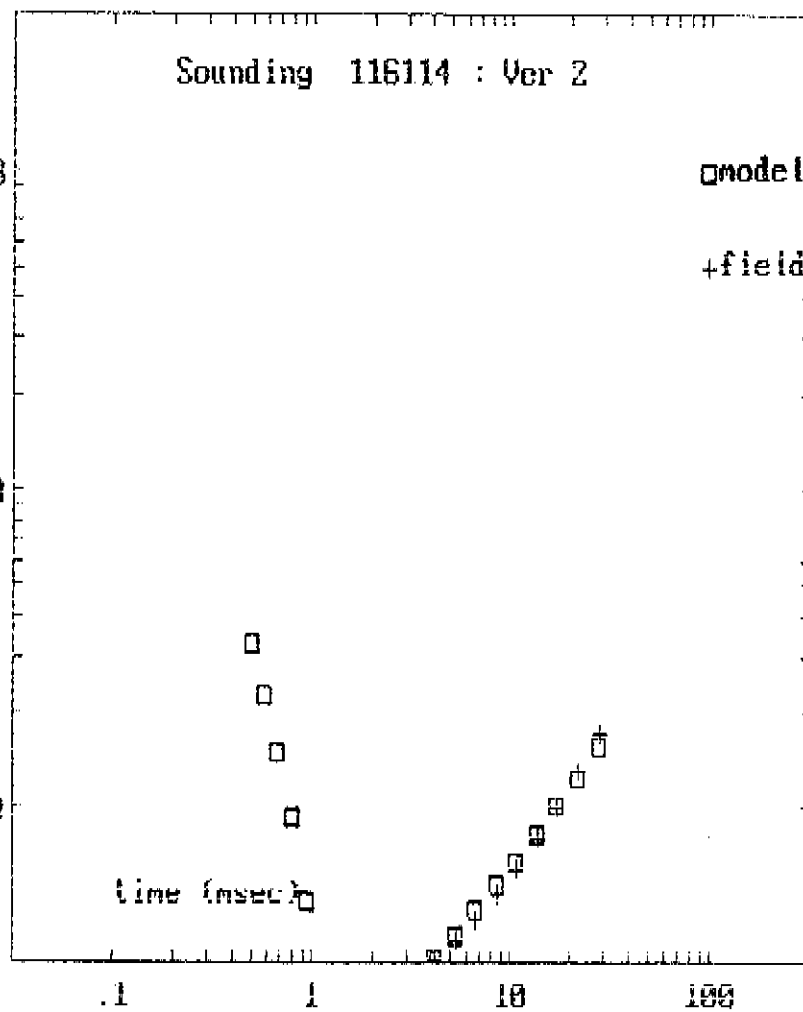
time (msec)

.1

1

10

100



SOUNDING: 116114 : Vers 2
Y116/114 6.25 Hz

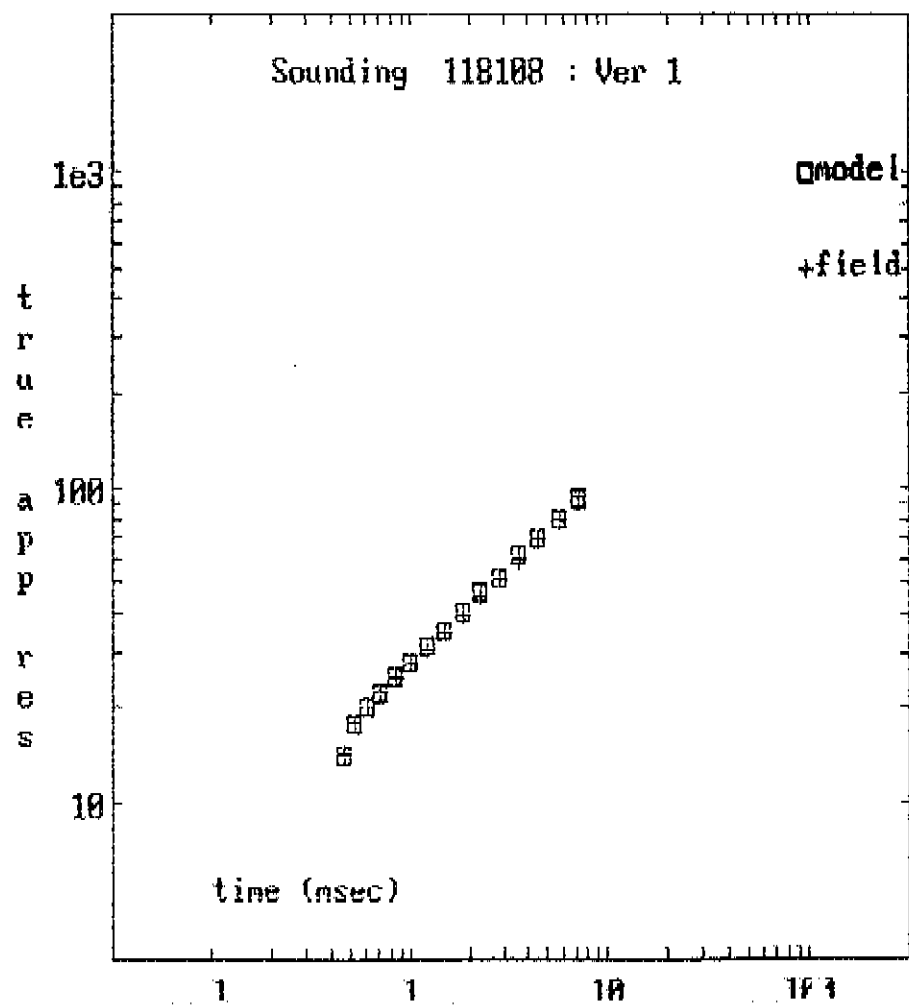
(74.8 ohm.m)	15.8 m	1528.3 m.
53.8 ohm.m	12.5 m	
(135 ohm.m)	(62.7 m.l)	
		(91.0 m.l)
625 ohm.m		

116114A

174.8
53
(135)
625

STD ERR= 6.7% : S= 20 S

E= 7%
S= 205



SDUNDING: 118108 : Vers 1
Y118/108 25 Hz

* 18.0 ohm.m * 64.2 m.

* 269 ohm.m

* 64.2 m.

STD ERR= 2.0% : S= 3 S

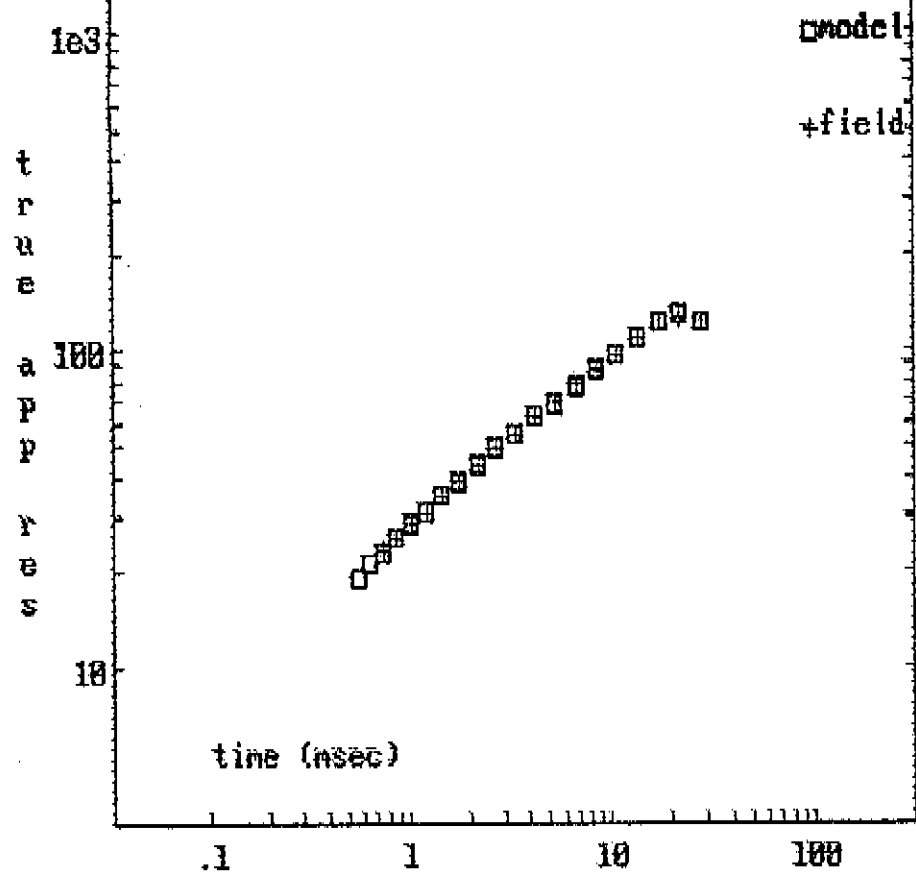
118108A

* 18.0

* 269

E= 2%
S= 35

Sounding 118108 : Ver c



SOUNDING: 118108 : Vers c
Y118/108 6.25 Hz loop corrected

* 18.8 ohm.m * 60.1 m 60.1 m.

* 179 ohm.m * 1520 m.

* 6.0 ohm.m * 1580 m

STD ERR= 1.5% : S= 12 S

118108A

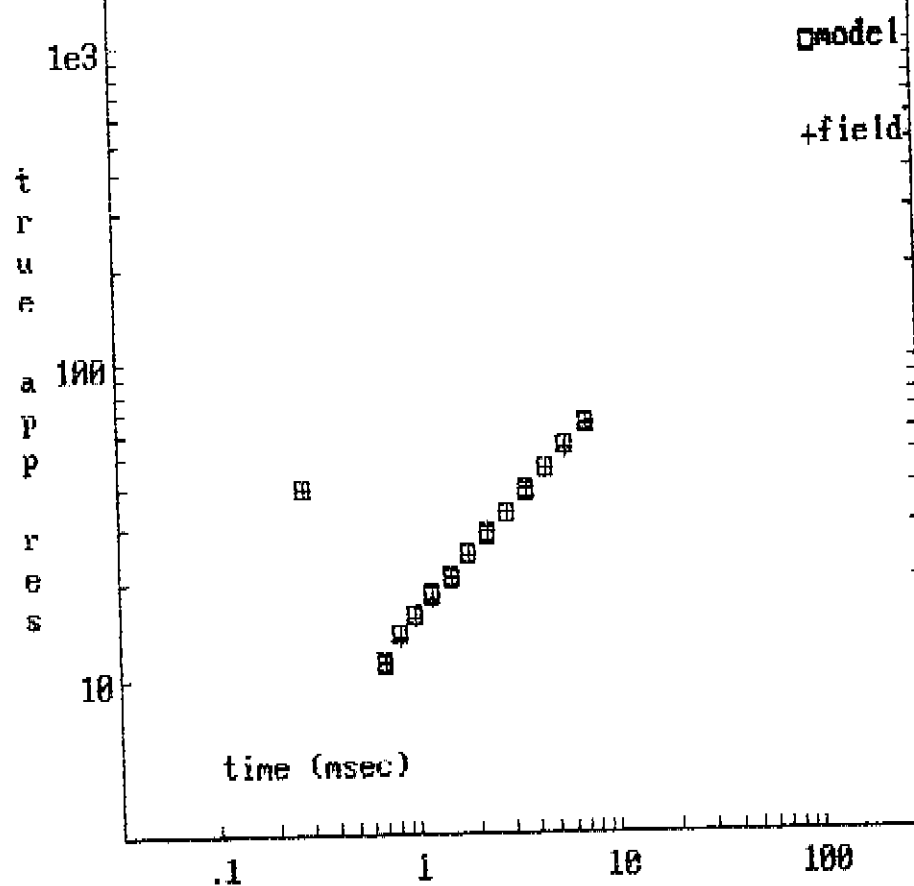
* 18.8

* 179

* 6.0

E= 1%
S= 125

Sounding 118110 : Ver 1



SOUNDING: 118110 : Vers 1
Y118/110 25 Hz

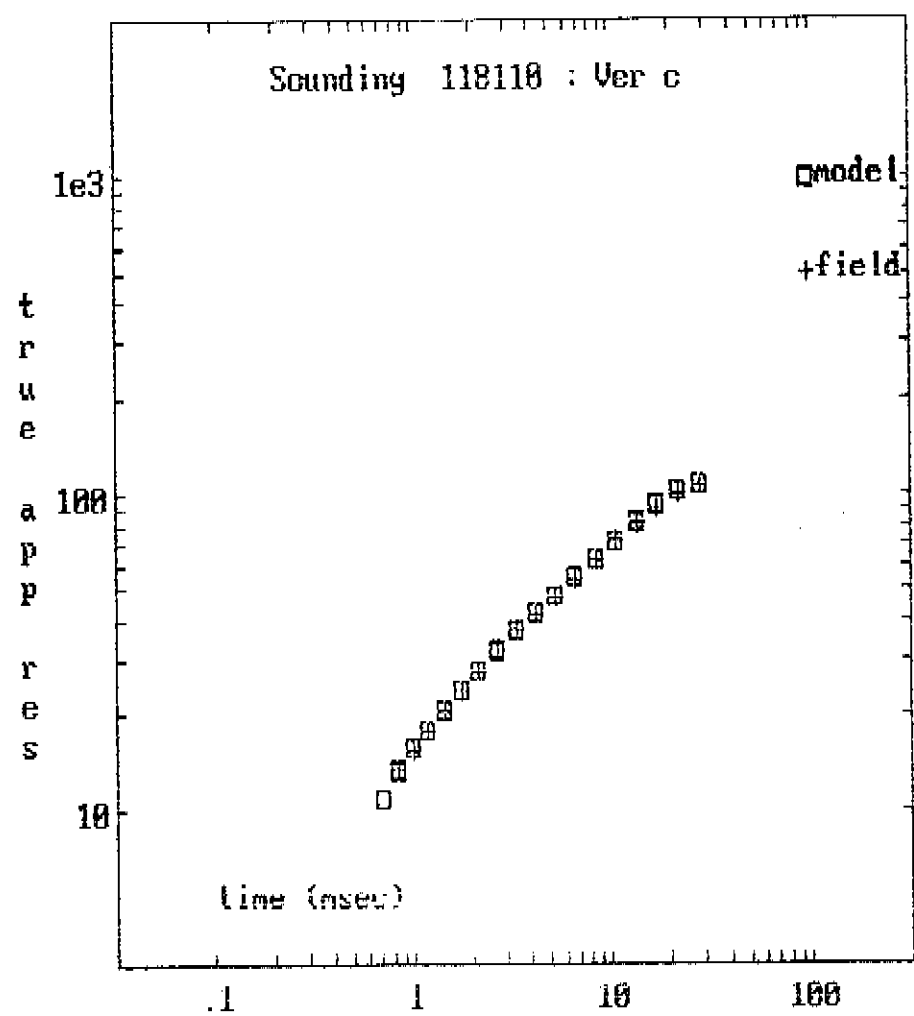
* 10.9 ohm.m * 48.8 m.
* 274 ohm.m * 48.8 m.

STD ERR= 1.5% : S= 4 S

118110A

* 10.9
* 274

E= 1%
S= 45



SOUNDING: 118110 : Vers c
Y118/110 6.25 Hz loop corrected

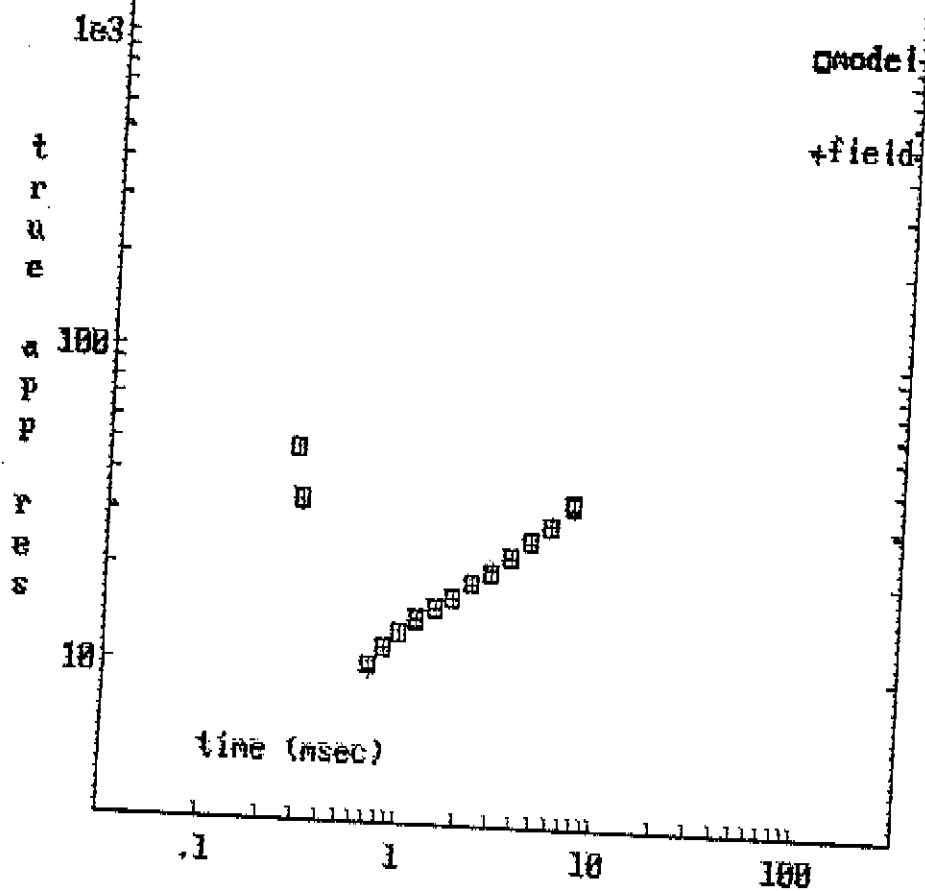
* 8.4 ohm.m	* 32.9 m.
* 32.9 m.	

118110A

* 8.4

E= 2%
S= 145

Sounding 118112 : Ver 1



SOUNDING: 118112 : Verb 1
Y118/112 25 Hz

118112

* 10.7 ohm.m * 47.0 m.
* 47.0 m.

* 10.7

* 38.3 ohm.m * 160 m.

* 38.3

* 207 m.
(258 ohm.m)

(258)

STD ERR= .8% : S= 9 S

E= 1%
S= 95

Sounding 118112 : Ver c

1e3

model

+field

100

10

time (msec)

.1

1

10

100

t
r
u
e

a
p
p
r
e
s

Figure 1

* 12.8

* B2.3

13.11

E= 1%

S= 135

$E = 1.7$

3- 135

Sounding 120110 : Ver 1

1e3

model

+field

100

10

time (nsec)

.1

1

10

100

t

u

a

a

s

SOUNDING: 120110 : Vers 1
Y120/110 25 Hz

* 17.7 ohm.m * 79.9 m.

* 374 ohm.m * 79.9 m.

STD ERR= 1.8% : S= 5 S

120110A

* 17.7

* 374

E= 2%

S= 55

Sounding 120110 : Ver c

□ model

+ field

1e3

100

10

time (nsec)

.1

1

10

100

t
a
s

SOUNDING: 120110 : Vers c
 Y120/110 6.25 Hz loop corrected

120110A

* 17.2 ohm.m * 73.9 m. 73.9 m.

* 17.2

* 210 ohm.m * 1081 m.

* 210

* 1155 m.
 (6.5 ohm.m)

(6.5)

STD ERR= 1.6% ; S= 9 S

E= 2%
 S= 95

Sounding 120112 : Ver 1

1e3

model

+field

t
r
a
c
e

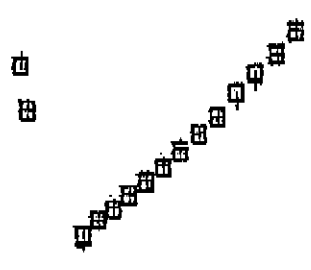
100

a
p
p
r
o
s

10

time (nsec)

.1 1 10 100



SOUNDING: 120112 : Vers 1
Y120/112 25 Hz

35.6 ohm.m	8.6 m	8.6 m
* 12.4 ohm.m	* 59.1 m.	
		* 67.7 m.
* 229 ohm.m		

STD ERR= 2.7% : S= 5 S

120112A

35.6
* 12.4
* 229

E= 3%
S= 5S

Sounding 120112 : Ver c

1e3

model

+field

100

10

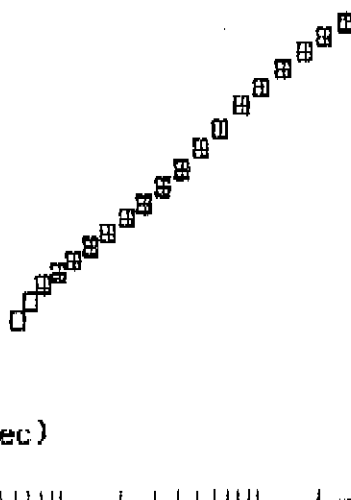
time (msec)

.1

1

10

100



SOUNDING: 120112 : Vers c
 Y120/112 6.25 Hz loop corrected

5.9 ohm.m	9.9 m.	9.8 m.
* 31.7 ohm.m	* 137 m.	
		* 145 m.

120112A

 * 31.7

471 ohm.m 902 m.

471

	1049 m.
141 ohm.m	

141

STD ERR= 1.8% : S= 8 S

E= 2%
 S= 85

Sounding 122110 : Ver 1

1e3

□ model

+field

100

10

time (nsec)

.1

1

10

100

Vertical scale labels: 1e3, 100, 10, time (nsec), .1, 1, 10, 100

SOUNDING: 122110 : Vers 1
Y122/110 25 Hz

122110A

* 19.1 ohm.m

* 72.7 m.

* 19.1

* 380 ohm.m

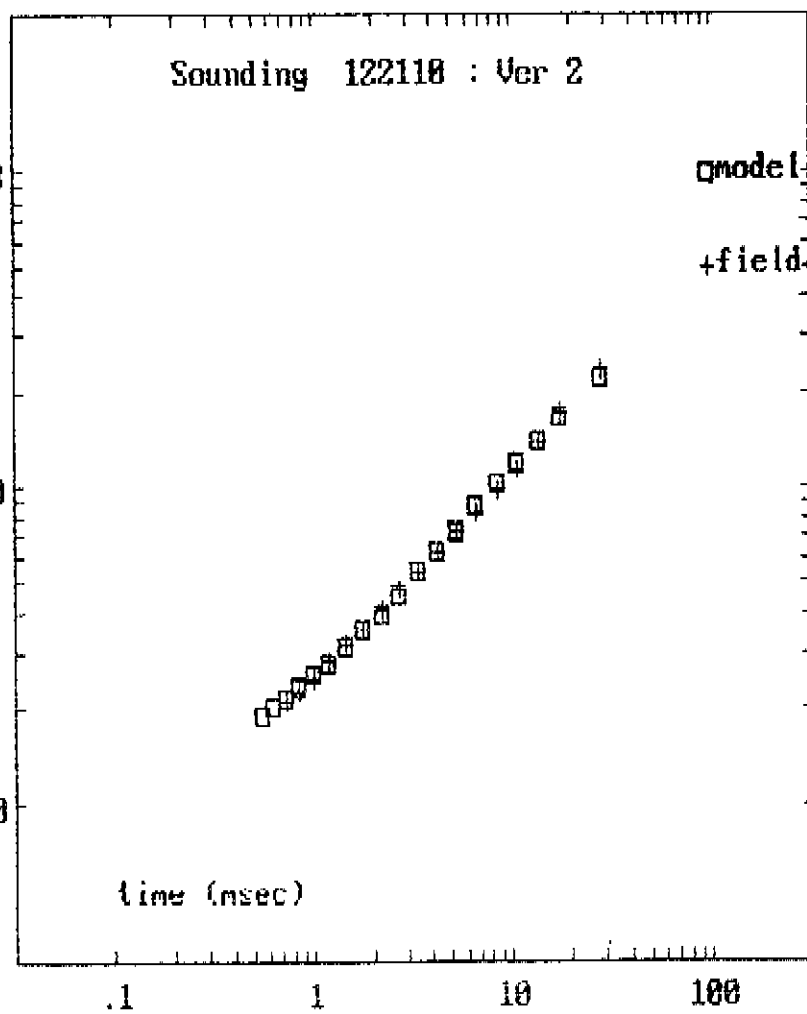
* 72.7 m

* 380

STD ERR- 1.0% : S- 4 S

E= 1%

S= 4S



SOUNDING: 122110 : Vers 2
Y122/110 6.25 Hz

* 21.2 ohm.m * 86.9 m.

* 713 ohm.m * 86.8 m.

STD ERR= 3.8% : S= 4 S

122110A

* 21.2

* 713

E= 4%
S= 45

Sounding 122112 : Ver 1

1e3

model

+field

100

10

time (msec)

.1

1

10

100

t
r
a
p
p
r
e
s

SOUNDING: 122112 : Vers 1
Y122/112 25 Hz

~~(80.8 dhm.m)~~ ~~8.2 m~~ ~~8.2 m~~
* 28.5 dhm.m * 77.8 m.
~~86.0 m~~
* 181 dhm.m

STD ERR= 2.5% : S= 3 S

122112A

~~(80.8)~~
* 28.5
~~86.0~~
* 181

E= 2%
S= 35

Sounding 124110 : Ver 2

1e3

□model

+field

100

10

time (nsec)

.1

1

10

100

t
r
a
p
p
r
e
s

SOUNDING: 124110 : Vers 2
Y124/110 6.25 Hz

* 11.1 ohm.m * 60.6 m.
-----* 60.6 m.
(2602 ohm.m)

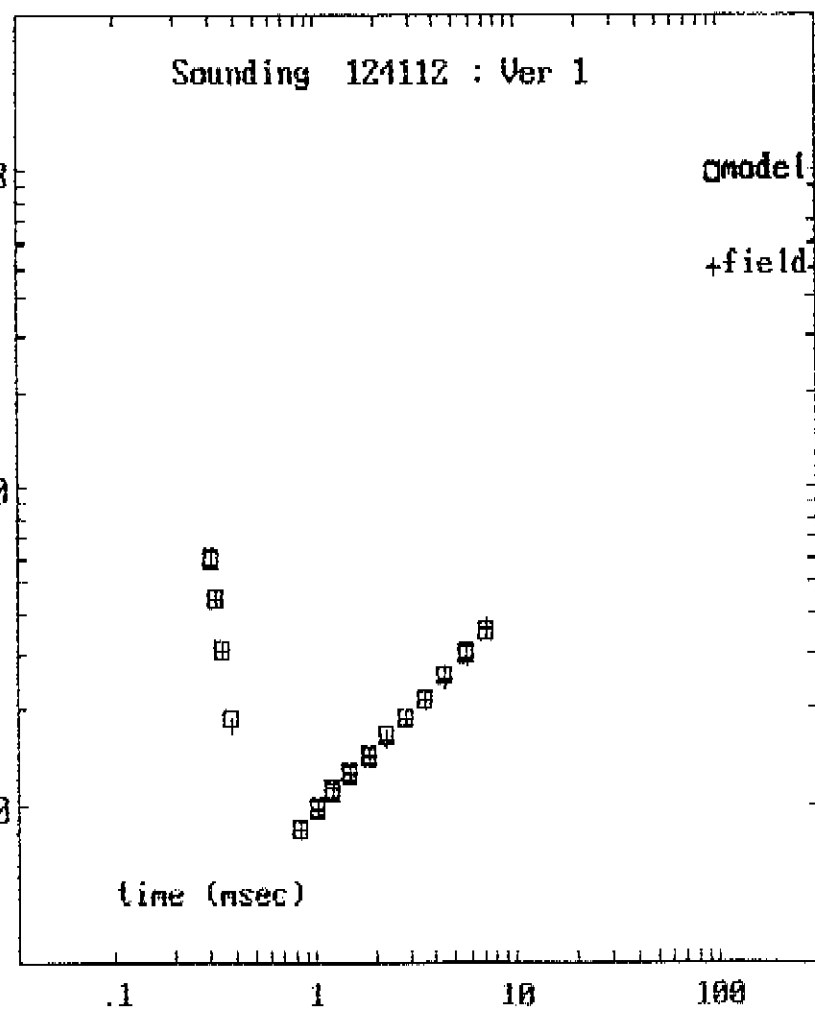
STD ERR= 3.0% : S= 5 S

124110A

* 11.1

(2602)

E= 3%
S= 5S



SOUNDING: 124112 : Vers 1
Y124/112 25 Hz

77.9 ohm.m 3.4 m 3.4 m.

124112A

77.9

* 9.8 ohm.m * 58.5 m.

* 8.8

213 ohm.m * 60.0 m.

213

STD ERR= 1.1% : S= 7 S

E= 1%

S= 75

Sounding 122112 : Ver c

1e3

model

+field

t
r
u
e

a
p
p
r
e
s

100

10

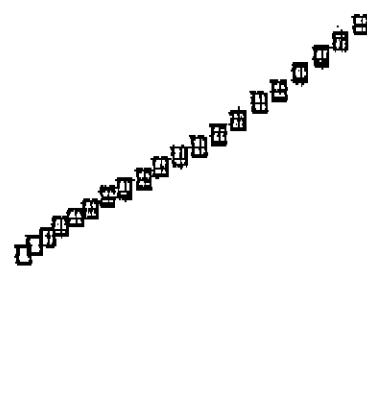
time (msec)

.1

1

10

100



SOUNDING: 122112 : Vers c
Y122/112 6.25 Hz loop corrected

122112A

* 26.4 ohm.m 69.7 m.

89.7 m.

* 26.4

* 101 ohm.m * 396 m.

* 101

* 539 ohm.m * 460 m.

* 539
E = 1%
S = 65

Sounding 124110 : Ver 1

1e3

model

+field

100

10

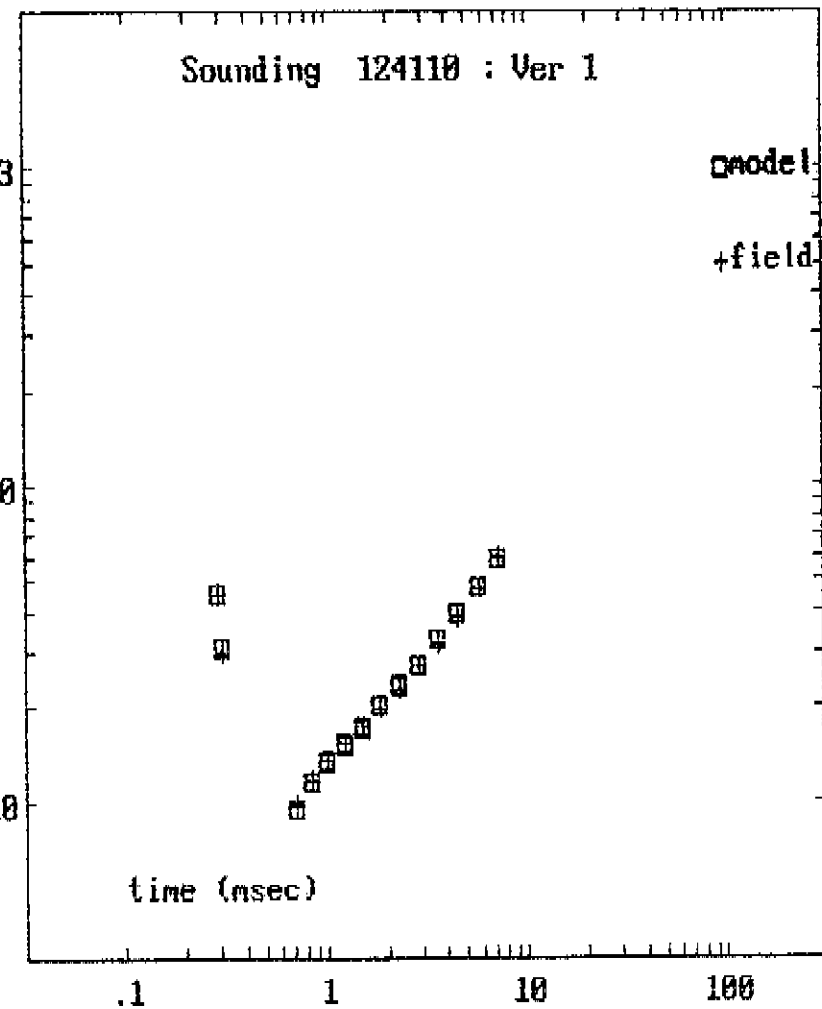
time (nsec)

.1

1

10

100



SOUNDING: 124110 : Vers 1
Y124/110 25 Hz

* 11.1 ohm.m	* 58.3 m.
(187 ohm.m)	46.2 m.
1212 ohm.m	

124110A
* 11.1
(187)
1212

STD ERR= 2.1% : S= 6 S

E= 2%
S= 65

Sounding 124112 : Ver 2

1e3

□model

+field

t
r
u
e
a
p
p
r
e
s

100

10

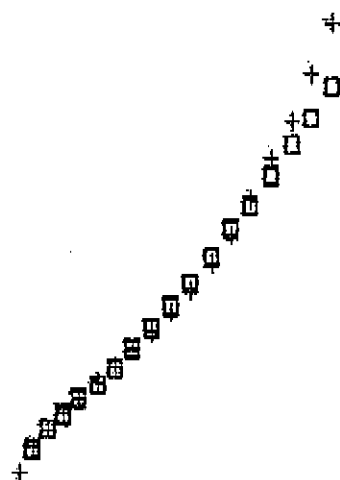
time (msec)

.1

1

10

100



SOUNDING: 124112 : Vers 2
Y124/112 6.25 Hz

124112A

* 9.9 ohm.m	* 67.7 m.
{ 170 ohm.m)	54.0 m.
(3535 ohm.m)	(122 m.)

* 9.9
{ 170)
(3535)

STD ERR= 5.3% : S= 7 S

E= 6%
S= 75

Sounding 126108 : Ver 1

1e3

model

+field

t
r
a
c
e

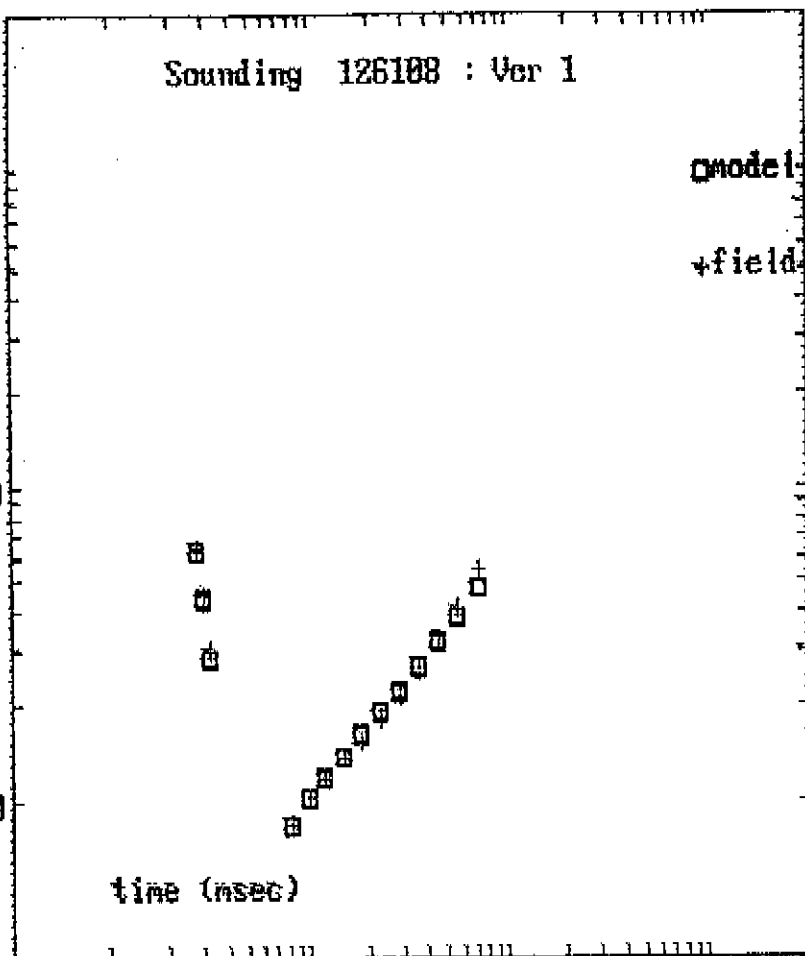
100

s
p
r
e
s

10

time (nsec)

.1 1 10 100



SOUNDING: 126108 : Vers 1
Y126/108 25 Hz

126108A

* 0.7 ohm.m * 52.3 m.
-----* 52.3 m.
(1280 ohm.m)

* 0.7

(1280)

STD ERR= 4.2% : S= 6 S

E= 4%
S= 8S

Sounding 126108 : Ver 2

1e3

□model

+field

100

10

(line (nsec))

.1

1

10

100

t
r
u
e

a
p
p
r
e
s

SOUNDING: 126108 : Vers 2
Y126/108 6.25 Hz

(110 ohm.m)	17.6 m
27 ohm.m	15.2 m

(2136 ohm.m)

STD ERR= 3.3% : S= 6 S

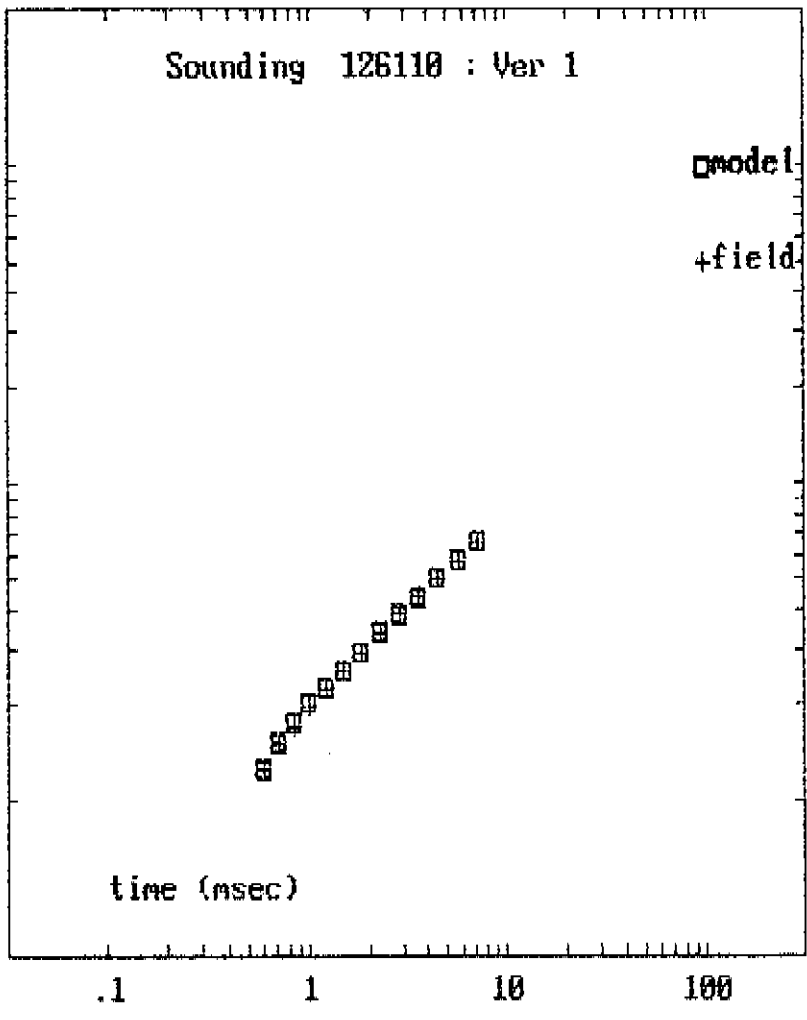
126108A

(110)
27

(2136)

E= 3%
S= 65

t
a
s



SOUNDING: 126110 : Vers 1
Y126/110 25 Hz

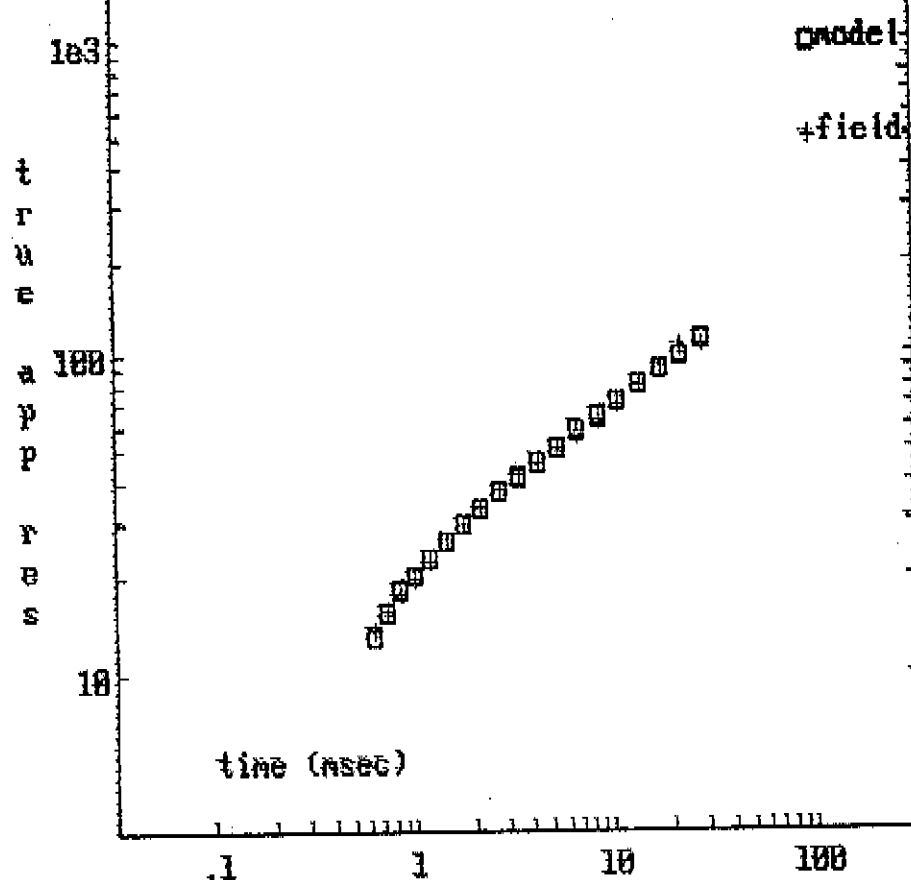
* 13.1 ohm.m	* 49.1 m.
* 167 ohm.m	* 49.1 m.

126110A
* 13.1
* 167

STD ERR= 1.1% : S= 4 S

E= 1%
S= 45

Sounding 126110 : Ver c



SOUNDING: 126110 : Vers c
Y126/110 6.25 Hz loop corrected

126110A

~~* 10.3 ohm.m * 33.0 m 33.0 m~~

~~* 10.3~~

* 111 ohm.m * 535 m.

* 111

_____ * 568 m.

(560 ohm.m) 875 m.

(560)

_____ 1443 m.

(184 ohm.m)

{ 184)

STD ERR= 3.6% : S= 10 S

E= 4%

S= 105

Sounding 126112 : Ver 1

model

+field

t
r
u
e
a
p
p
r
e
s

1e3

100

10

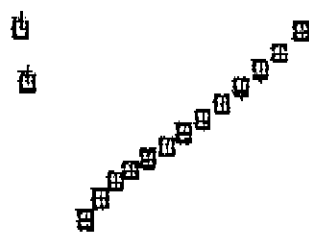
time (nsec)

.1

1

10

100



SOUNDING: 126112 : Vers 1
Y126/112 25 Hz

126112A

* 19.1 ohm.m * 59.6 m.
* 59.6 m.

* 19.1

45.3 ohm.m 119 m.

45.3

241 ohm.m 178 m.

241

STO ERR= 1.9% : S= 7 S

E= 1%
S= 7S

Sounding 126112 : Ver c

1e3

model

+field

100

10

time (msec)

.1

1

10

100

t
a
e
a
p
c
c

SOUNDING: 126112 : Vers c
 Y126/112 6.25 Hz loop corrected

~~* 11.4 ohm.m~~ ~~43.3 m~~ 43.3 m.

42.8 ohm.m * 203 m.

* 246 m.

(771 ohm.m)

650 m.

886 m.

227 ohm.m

STD ERR= 1.0% : S= 9 3

126112A

~~8 11.4~~

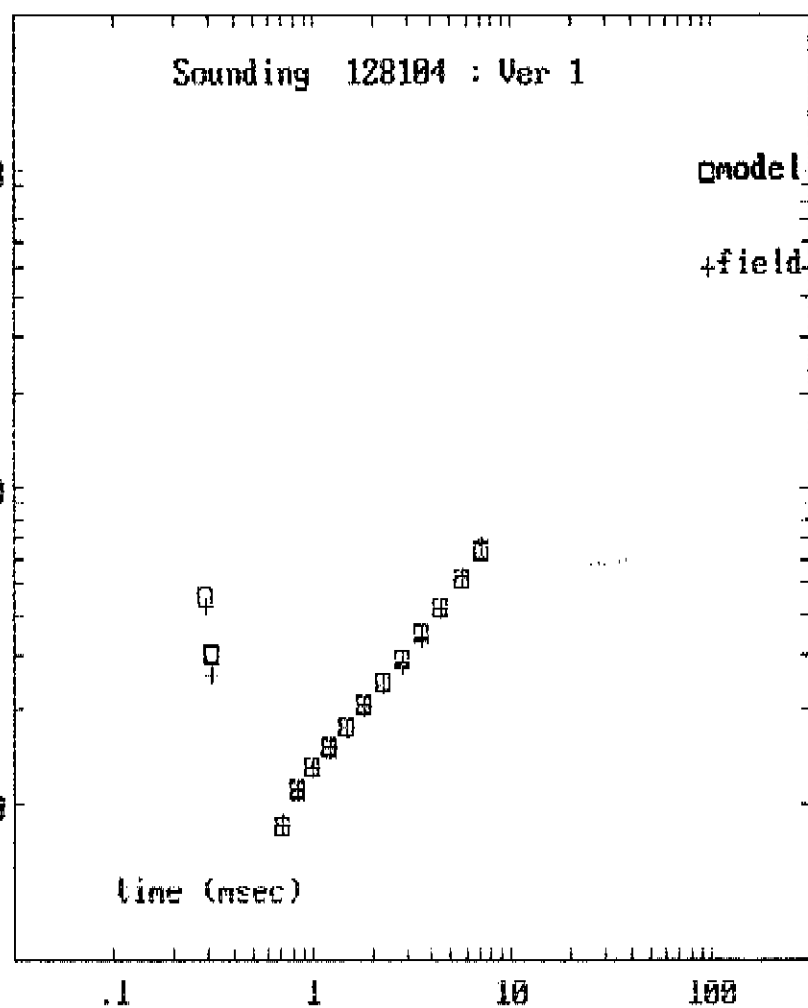
42.8

(771)

227

E= 2%

S= 95



SOUNDING: 128104 : Vers 1
Y128/104 25 Hz

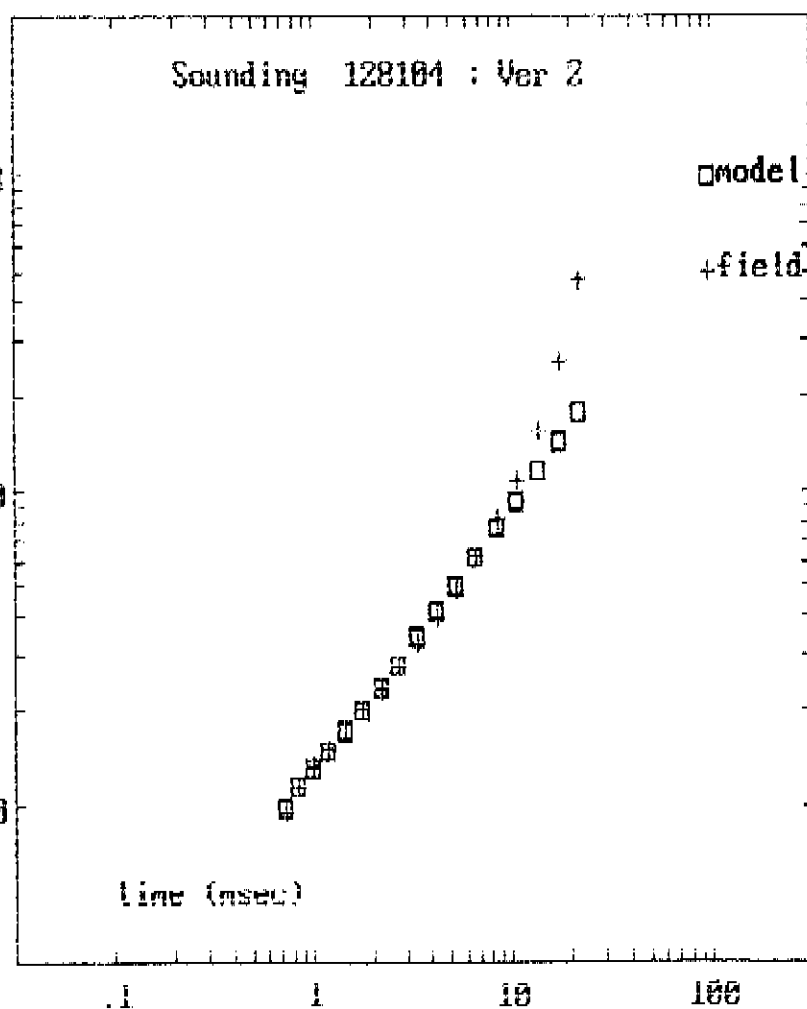
* 9.7 ohm.m	* 49.7 m.
1404 ohm.m	

128104A
* 9.7
1404

STD ERR= 2.8% : S= 5.5

E= 3%
S= 55

t
r
u
e
a
p
p
r
e
s



SOUNDING: 128104 : Vers 2
Y128/104 6.25 Hz

128104A

(81.6 ohm.m) 15.2 m.

(81.6)

15.2 m.

4.8 ohm.m 23.0 m.

4.8

* 39.2 m.

3114 ohm.m

3114

STD ERR= 3.2% : S= 5 S

E= 3%
S= 55

Sounding 128106 : Ver 1

model

+field

tr
u
e
a
p
p
r
e
s

1e3

100

10

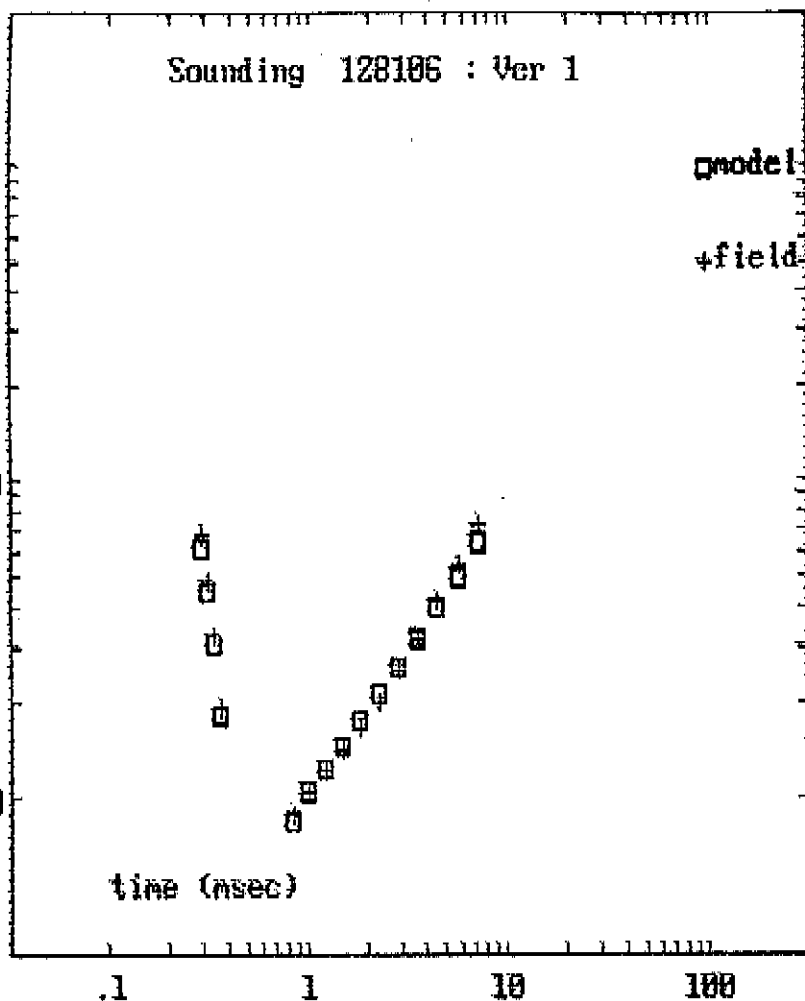
time (msec)

.1

1

10

100



SOUNDING: 128106 : Vers 1
Y128/106 25 Hz

125 ohm.m * 17.8 m.

~~* 033 ohm.m * 13.1 m.~~
2684 ohm.m

STD ERR= 7.0% : S= 5 3

128106A

125

~~* 033~~
2684

E= 8%
S= 55

Sounding 128106 : Ver 2

1e3

model

+field

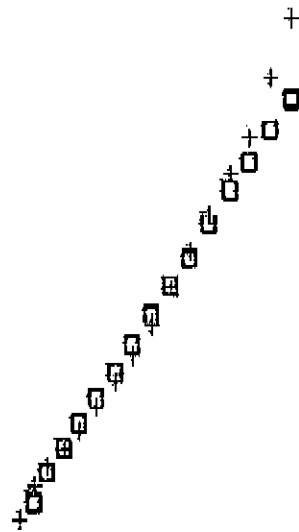
t
r
u
e
a
p
p
r
e
s

100

10

time (nsec)

.1 1 10 100



SOUNDING: 128106 : Vers 2
Y128/106 6.25 Hz

128106A

(82.7 ohm.m) 11.8 m.

(82.7)

1.0 ohm.m 4.8 m.

1.0

(6488 ohm.m) 18.6 m.

(6488)

STD ERR= 0.0% : S= 5 3

E= 9%
S= 55

Sounding 128108 : Ver 1

1e3

□model

+field

100

10

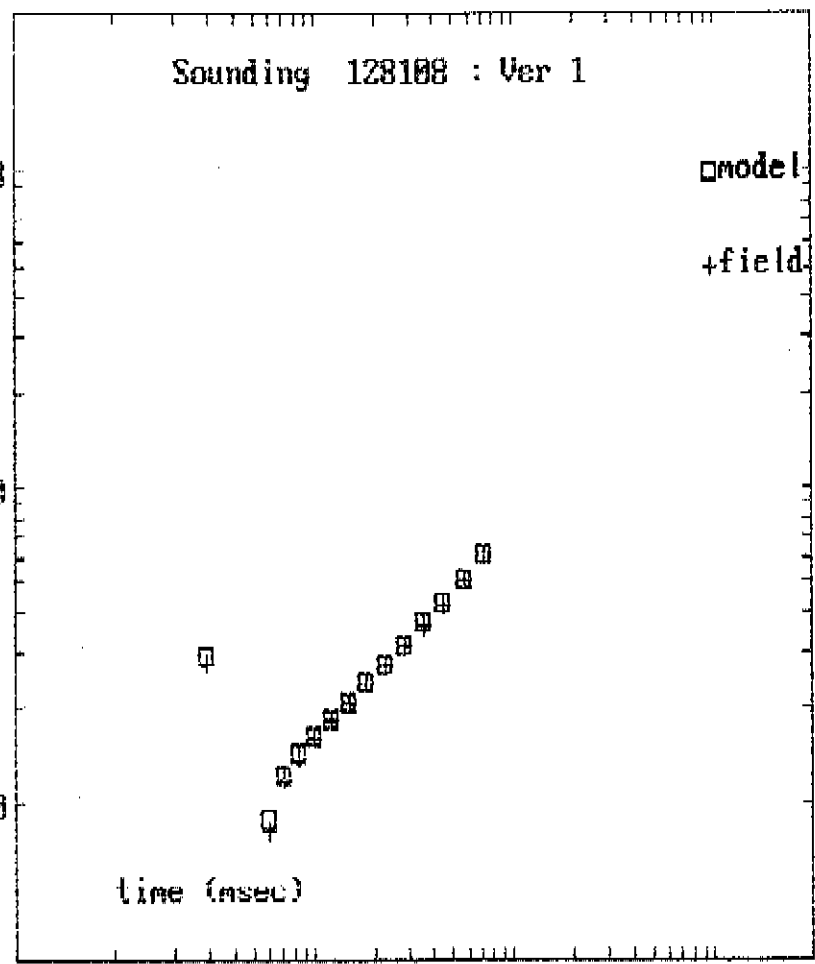
time (msec)

.1

1

10

100





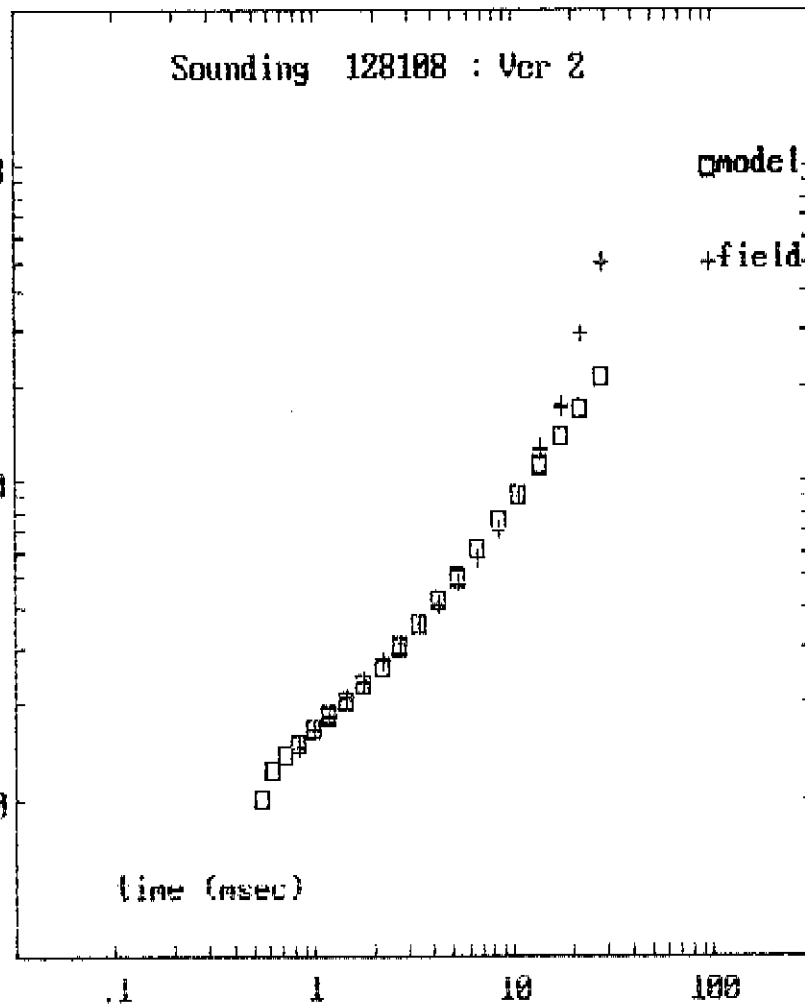





$$\begin{array}{r} \times 15.7 \\ \hline \times 317 \end{array}$$

E = 1%

S = 55



SOUNDING: 128108 : Vers 2
Y128/108 6.25 Hz

* 14.6 ohm.m * 77.4 m.

(3987 ohm.m) * 77.4 m.

STD ERR= 5.8% : S= 55

128108A

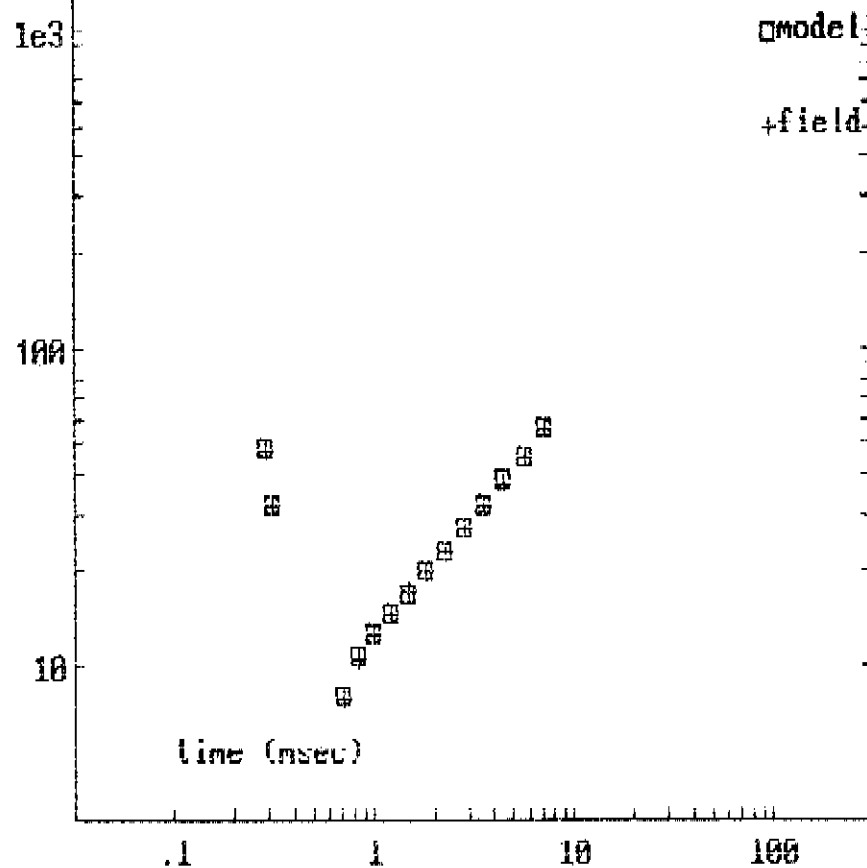
* 14.6

(3987)

E= 5%

S= 55

Sounding 128110 : Ver 1



SOUNDING: 128110 : Vers 1
Y128/110 25 Hz

* 9.6 ohm.m	* 50.1 m.
432 ohm.m	* 50.1 m.

STD ERR= 1.0% - S= 5 S

128110A

* 9.6
432

E= 1%
S= 5S

Sounding 128110 : Ver c

1e3

model

+field

t
r
u
e

a
p
p
r
e
s

100

10

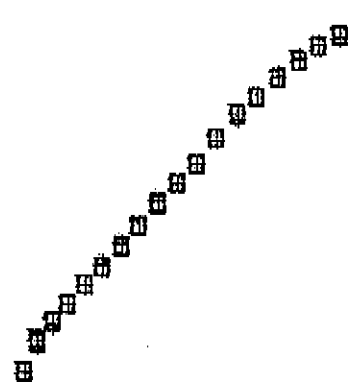
time (nsec)

.1

1

10

100



SOUNDING: 128110 : Vers c
 Y128/110 6.25 Hz loop corrected

* 9.2 ohm.m	* 43.3 m	* 43.3 m.
108 ohm.m	165 m.	
		208 m.

2461 ohm.m	407 m.	
		616 m.
159 ohm.m		

STD ERR= 3.2% : S= 6 S

128110A

* 9.2

108

2461

159

E= 3%

S= 65

Sounding 128112 : Ver 1

t
r
u
e

a
p
p
r
e
s

1e3

100

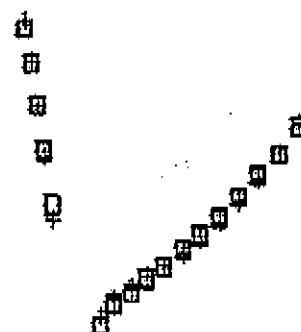
10

time (msec)

model

+field

.1 1 10 100



SOUNDING: 128112 : Vers 1
Y128/112 25 Hz

~~(71.0 ohm.m)~~ * ~~8.3 m~~ 8.3 m
* 8.3 ohm.m * 63.0 m.
----- * 71.3 m.
(422 ohm.m)

STD ERR= 2.8% : S= 8 S

128112A

~~(71.0)~~
* 8.3

(422)

E= 3%
S= 85

Sounding 128112 : Ver 2

1e3

□model

+field

100

10

time (msec)

.1

1

10

100

SOUNDING: 128112 : Vers 2
Y128/112 6.25 Hz

* 81.3 ohm.m	* 25.5 m	25.5 m.
4.0 ohm.m	28.8 m.	* 54.3 m.
(1357 ohm.m)		

128112A

* 81.3
4.0
(1357)

STD ERR= 3.6% ; S= 6 S

E= 4%
S= 65

Sounding 130102 : Ver 1

1e3

□model

+field

100

10

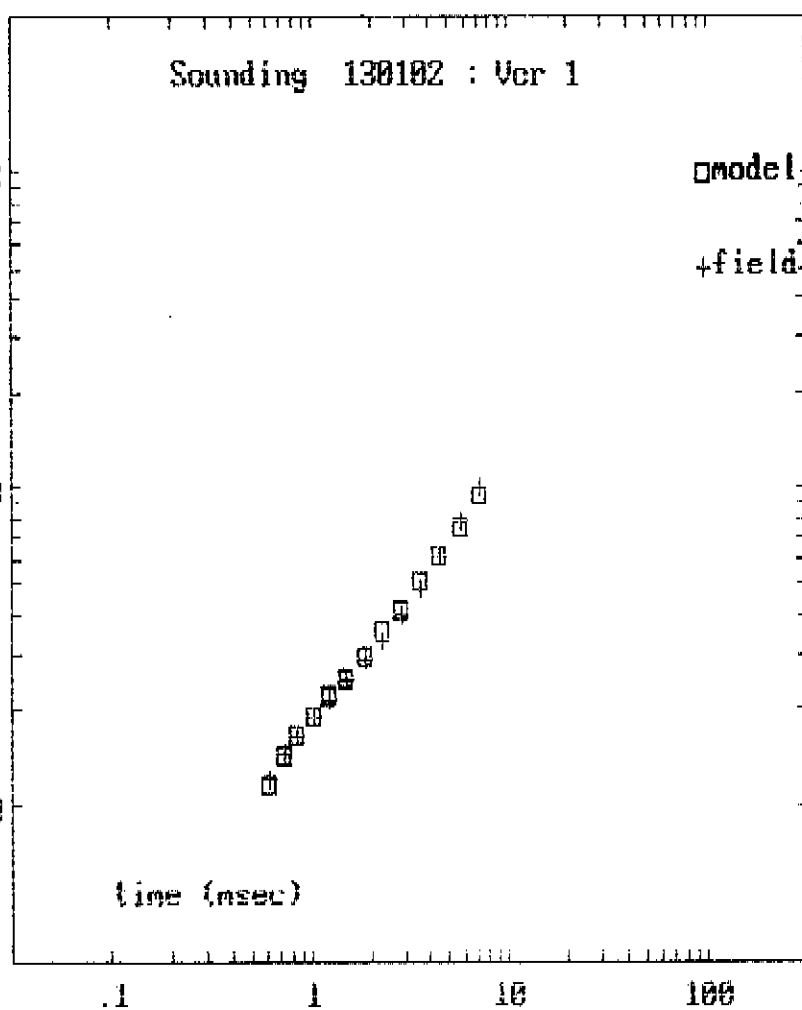
time (msec)

.1

1

10

100



SOUNDING: 130102 : Vers 1
Y130/102 25 Hz

130102A

* 13.1 ohm.m * 55.8 m.
-----* 55.8 m.
(3418 ohm.m)

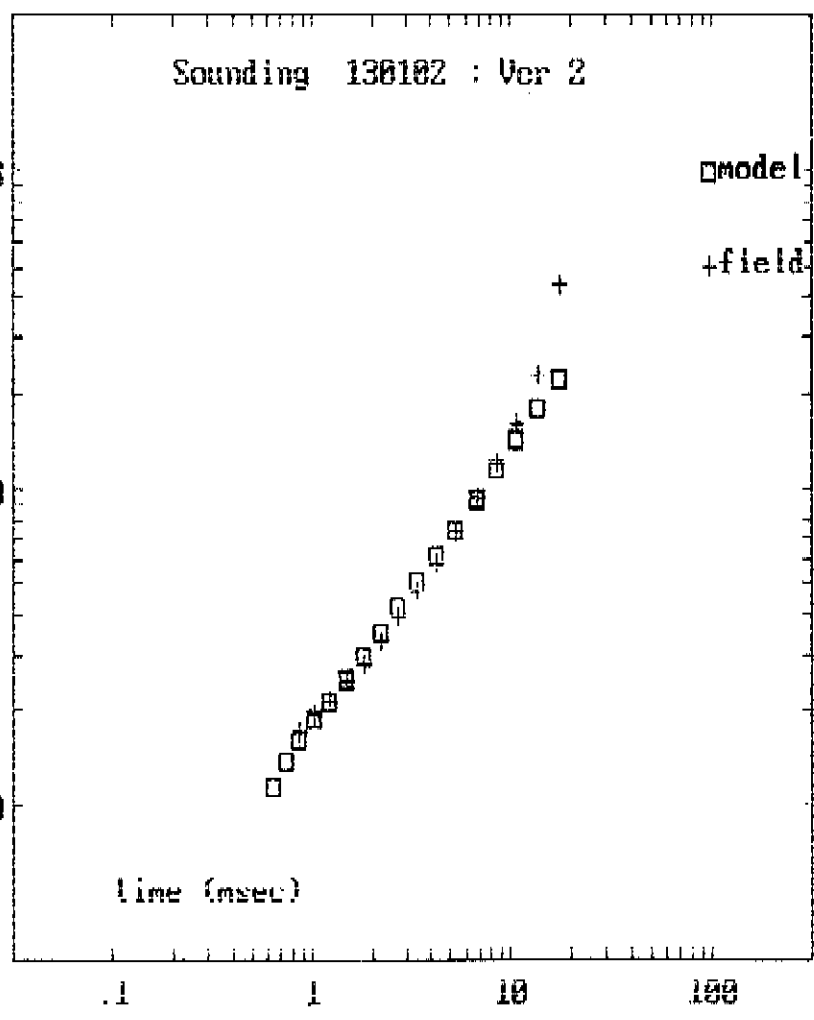
* 13.1

(3418)

STD ERR= 3.8% : S= 4 S

E= 4%
S= 45

t
r
u
e
a
p
p
r
e
s



SDUNDING: 130102 : Vers 2
Y130/102 6.25 Hz

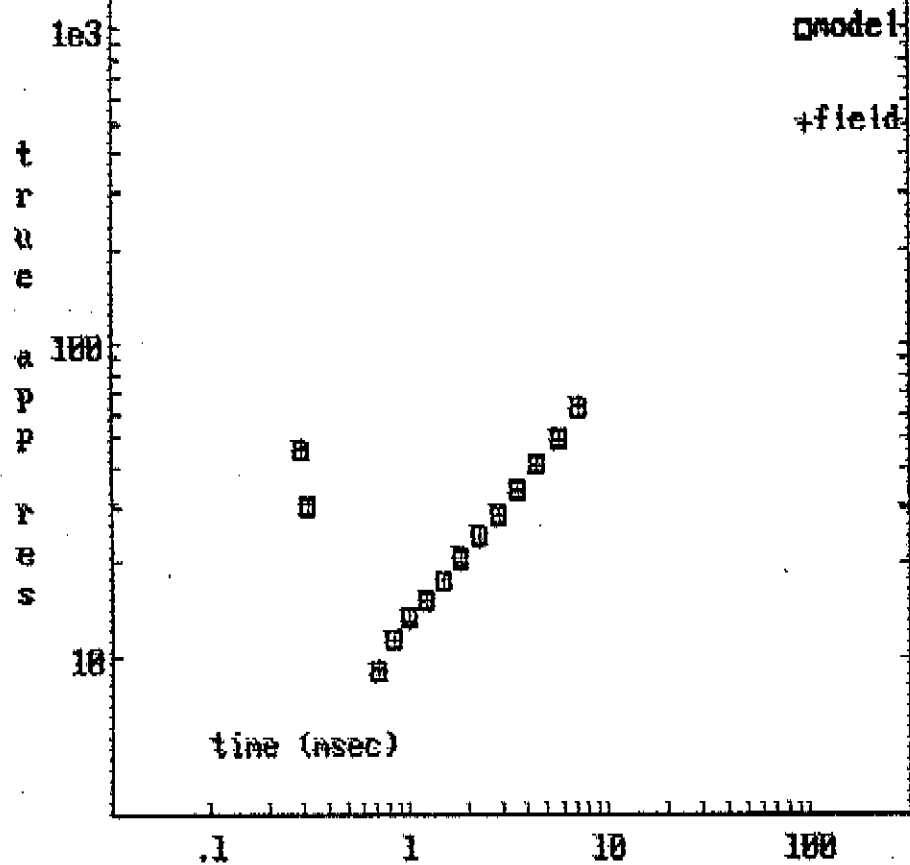
* 10.9 ohm.m	* 44.7 m.
(7275 ohm.m)	* 44.7 m.

STD ERR= 7.4% : S= 4 S

E= 7%
S= 45

130102A
* 10.9
(7275)

Sounding 130104 : Ver 1



SOUNDING: 130104 : Vers 1
Y130/104 25 Hz

130104A

* 10.5 ohm.m * 55.4 m.
-----* 55.4 m.
1991 ohm.m

* 10.5

1991

STD ERR= 1.7% : S= 5 S

E= 2%
S= 5S

Sounding 138104 : Ver c

1e3

model

+field

t
r
u
e

a

p

p

r

e

s

100

10

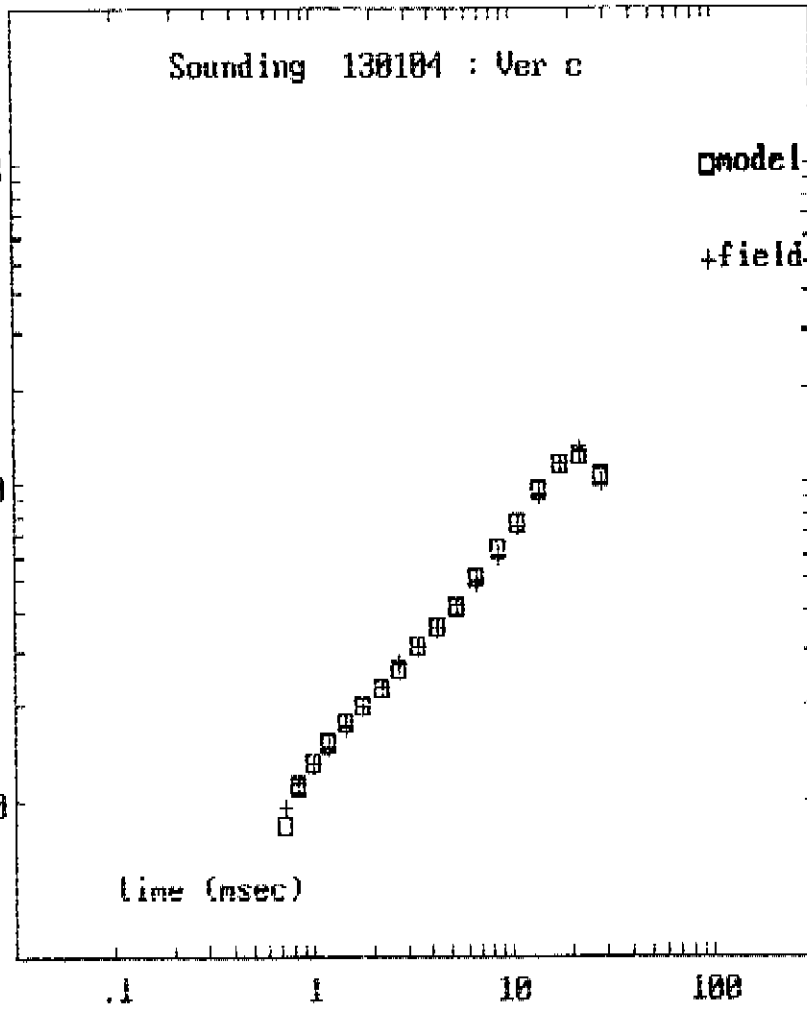
time (msec)

.1

1

10

100



SOUNDING: 130104 : Vers c
 Y130/104 6.25 Hz loop corrected

130104A

~~* 8.0 ohm.m~~ ~~* 12.8 m.~~ 12.3 m.
~~* 50.1 ohm.m~~ ~~x 101 m.~~
 * 178 m.

~~* 8.0~~
~~* 50.1~~

(1012 ohm.m) * 1042 m.

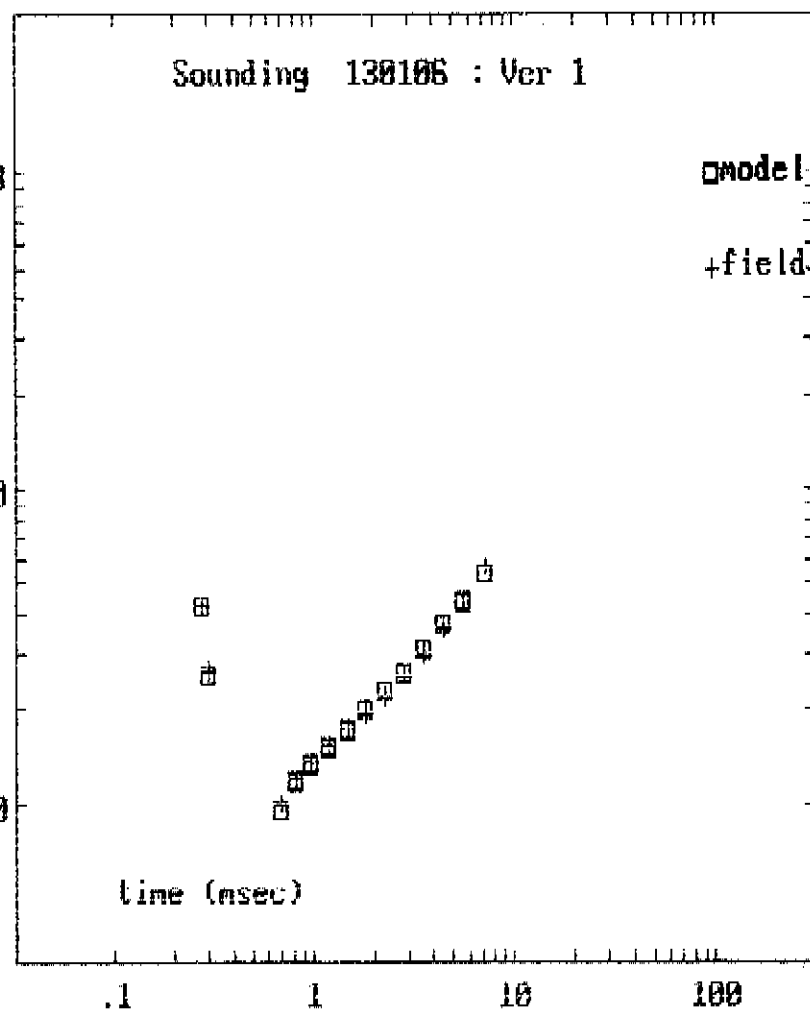
(1012)

-----* 1215 m.
 (.99 ohm.m)

 (.99)

STD ERR= 4.6% : S= 7 S

E= 5%
 S= 75



SOUNDING: 130106 : Vers 1
Y130/106 25 Hz

~~5.2 ohm.m~~ (~~4.4 m.~~ 4.4 m.)
* 14.6 ohm.m * 72.5 m.
-----* 77.0 m.
1243 ohm.m

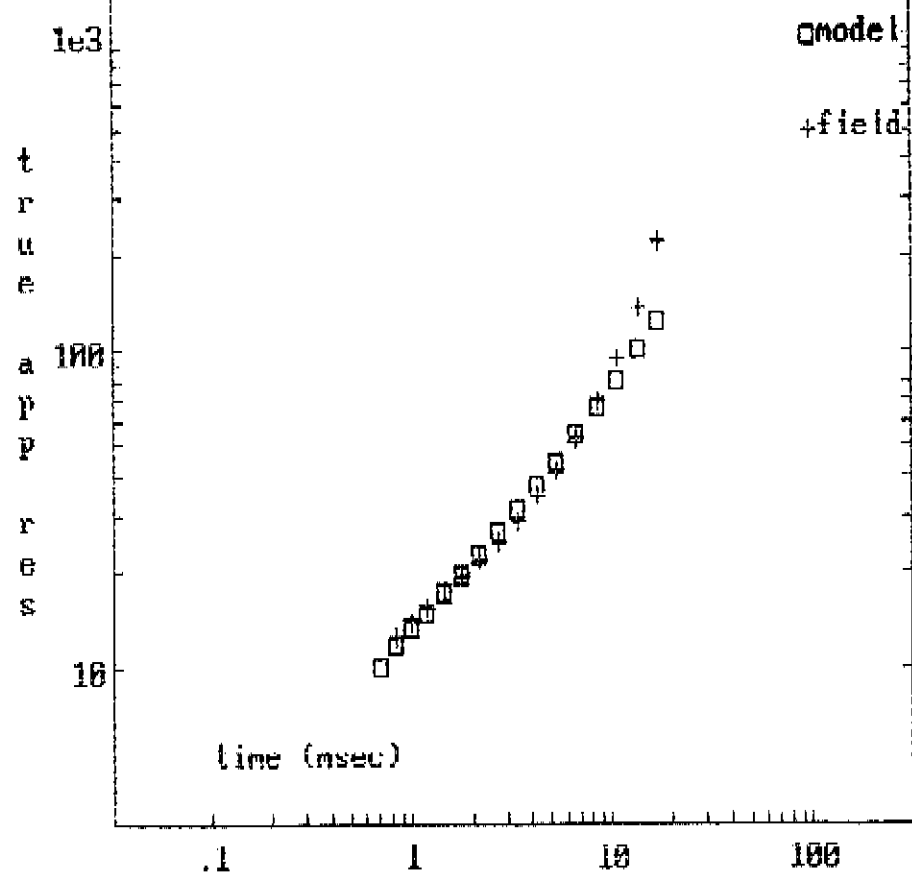
STD ERR= 3.0% : S= 6 S

130106
~~5.2~~
* 14.6

1243

E= 3%
S= 6S

Sounding 130106 : Ver 2



SOUNDING: 130106 : Vers 2
Y130/106 6.25 Hz

* 11.4 ohm.m	* 63.2 m.
(3666 ohm.m)	* 63.2 m.

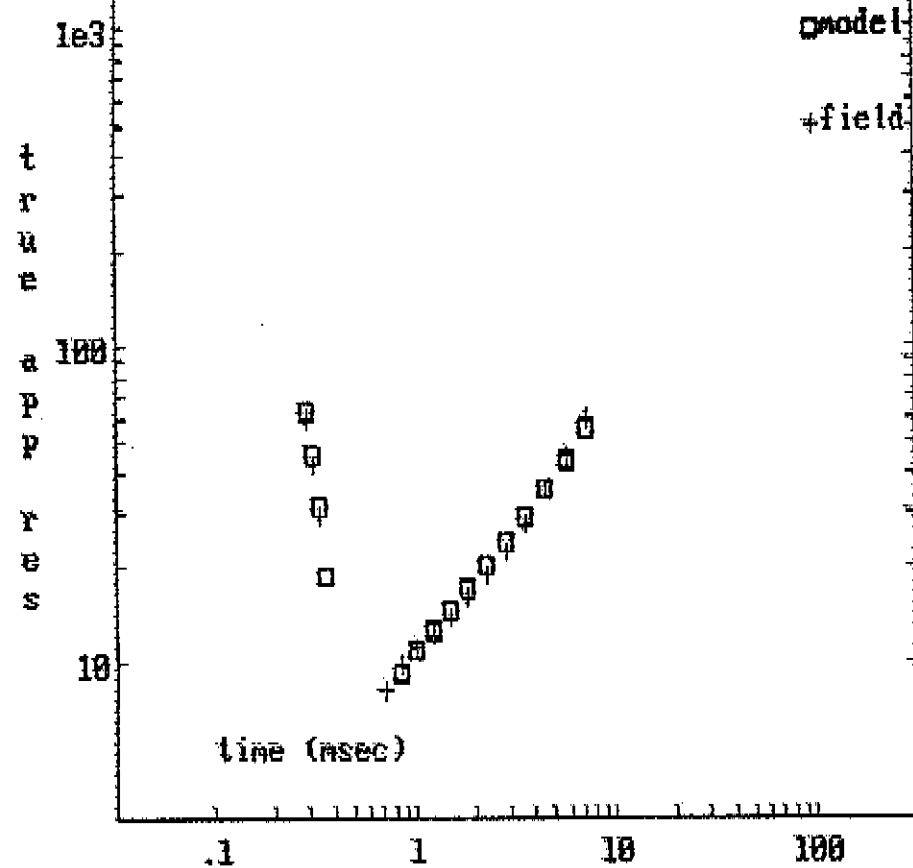
STD ERR= 7.9% : S= 6 S

130106A

* 11.4
(3666)

E= 8%
S= 6S

Sounding 130108 : Ver 1



SOUNDING: 130108 : VerB 1
Y130/108 25 Hz

159.5 ohm.m	* 14.8 m	14.3 m.
* 4.4 ohm.m	* 23.4 m	37.7 m.

2074 ohm.m

STD ERR= 0.4% : S= 0 3

130108A

159.5
* 4.4

2074

E= 6%
S= 65

Sounding 130108 : Ver 2

t
r
a
p
p
e
s

1e3

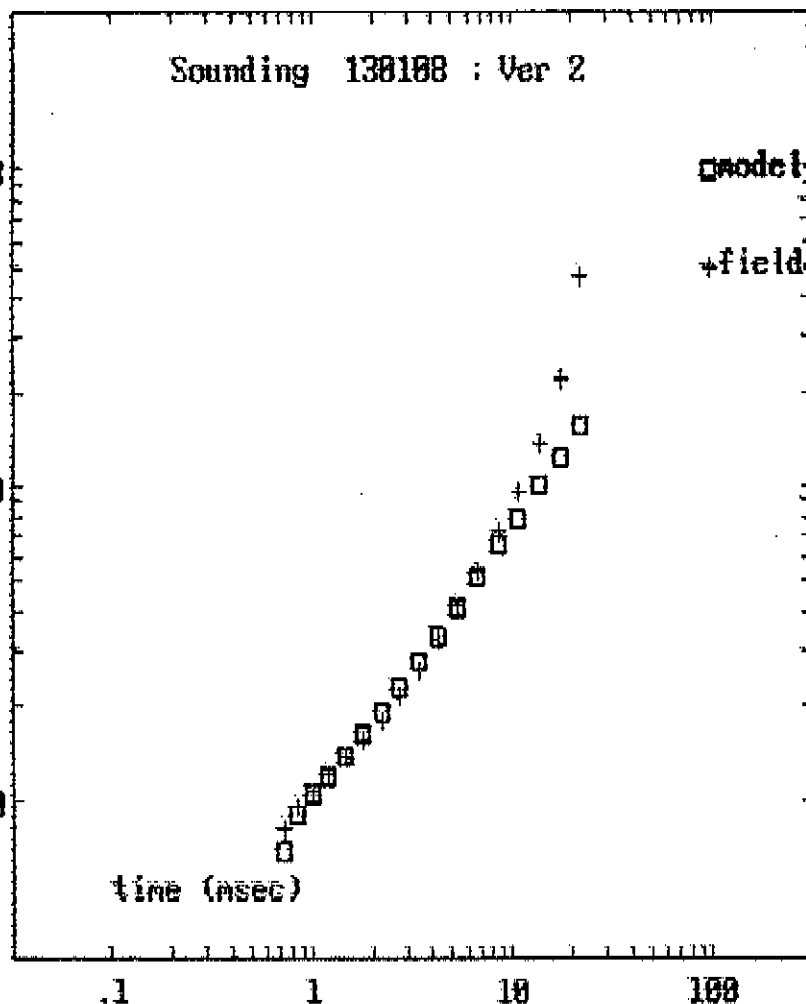
100

10

time (nsec)

model

+field



SOUNDING: 130108 : Ver's 2
Y130/108 6.25 Hz

130108A

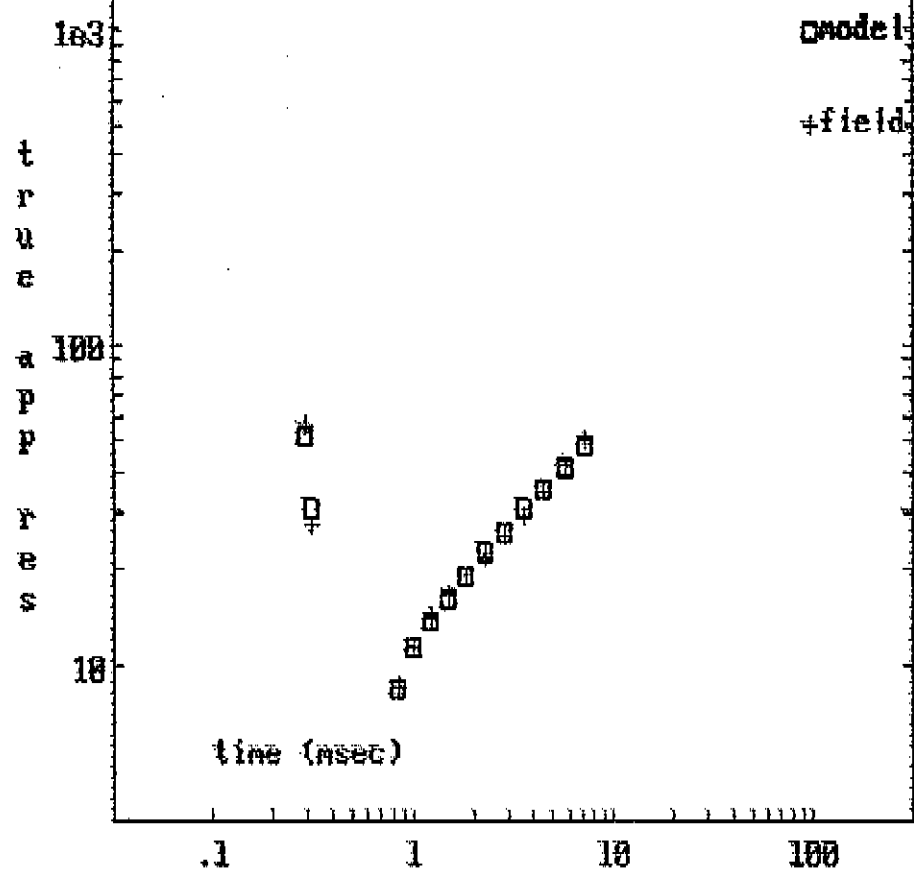
(87.2 ohm.m) * 19.9 m
1.4 ohm.m 7.5 m * 29.0 m
(4972 ohm.m)

(87.2)
1.4
(4972)

STD ERR- 6.8% : S- 5 S

E= 7%
S= 55

Sounding 130110 : Ver 1



SOUNDING: 130110 ; Vers 1
Y130/110 25 Hz

~~* .85 ohm.m 2.6 m, 2.6 m.~~

42.5 ohm.m 92.6 m.

~~95.2 m.~~

172 ohm.m

STD ERR= 7.4% : S= 55

130110A

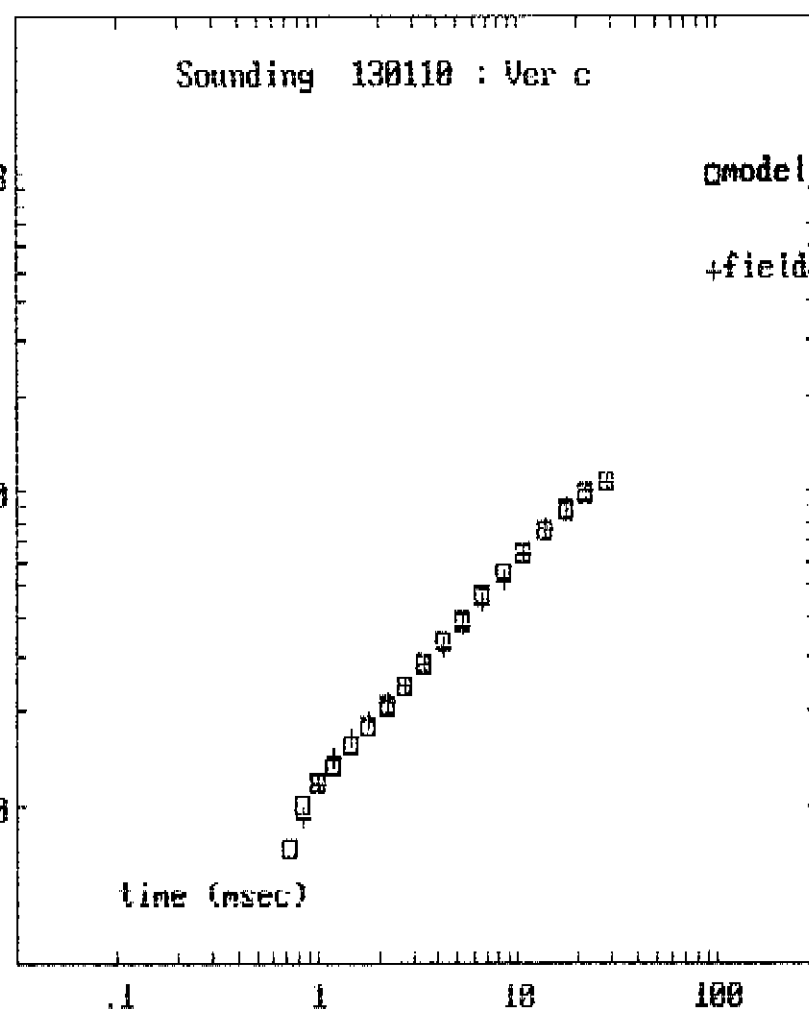
~~* .85~~

42.5

172

E= 7%

S= 55



SOUNDING: 130110 : Vers c
Y130/110 6.25 Hz loop corrected

130110A

* ~~8.8 ohm.m~~ * ~~46.4 m~~ 46.4 m.

* ~~8.8~~

* 288 ohm.m * 1658 m.

* 288

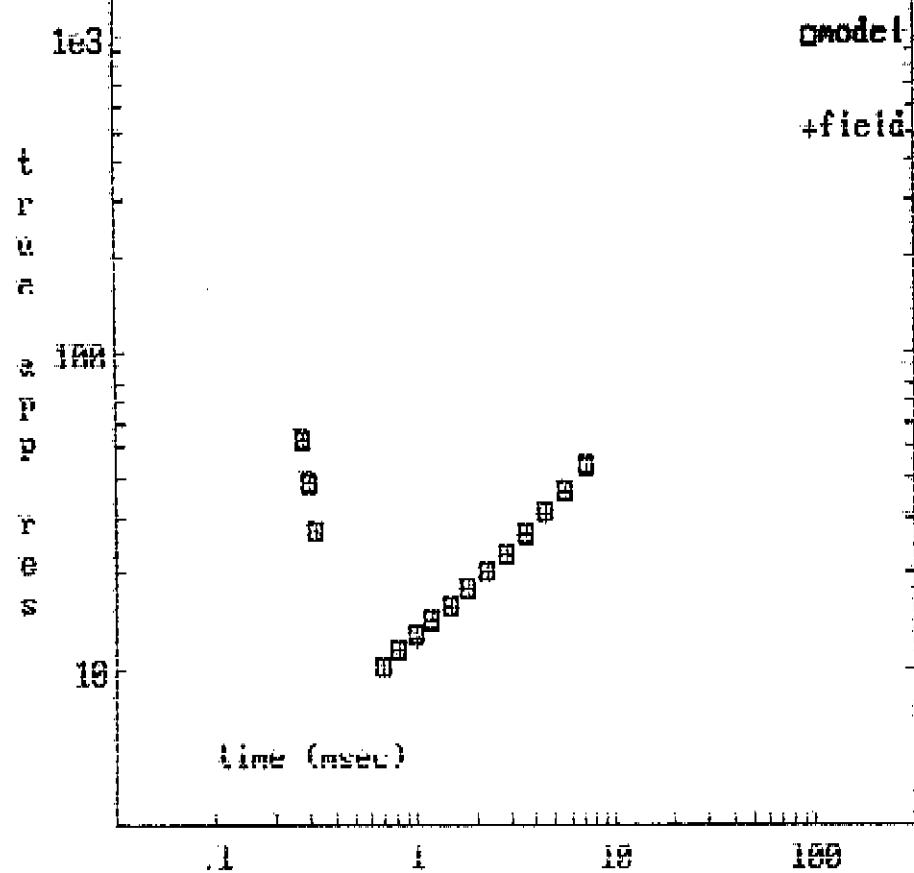
_____* 1705 m.
(18.8 ohm.m)

(18.8)

STD ERR= 5.4% : S= 11 S

E= 5%
S= 11S

Sounding 130112 : Ver 1



SOUNDING: 130112 : Verb 1
Y130/112 25 Hz

~~(47.7 ohm.m)~~ ~~4.8 m~~ 4.3 m.
* 11.4 ohm.m * 68.3 m.
-----* 72.6 m.
311 ohm.m

STD ERR= 1.0% : S= 6 S

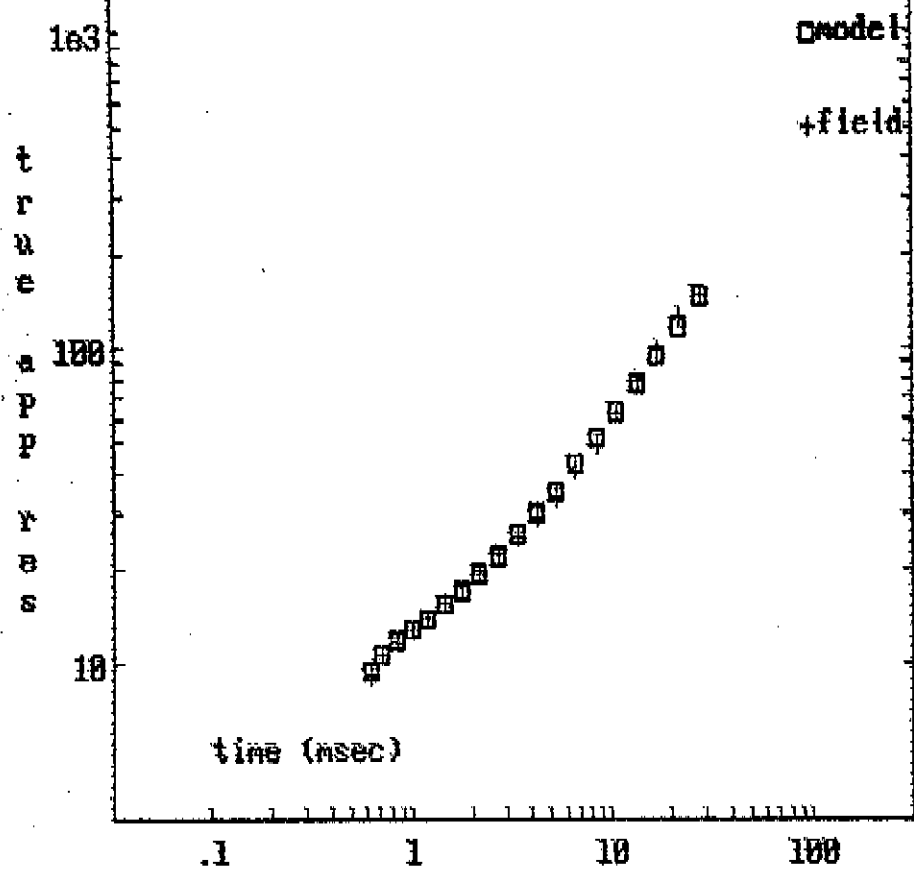
130112A

~~(47.7)~~
* 11.4

311

E= 1%
S= 6S

Sounding 130112 : Ver 2



SOUNDING: 130112 : Vers 2
Y130/112 6.25 Hz

130112A

* 12.8 ohm.m

* 84.1 m.

* 12.8

* 84.1 m.

(4890 ohm.m)

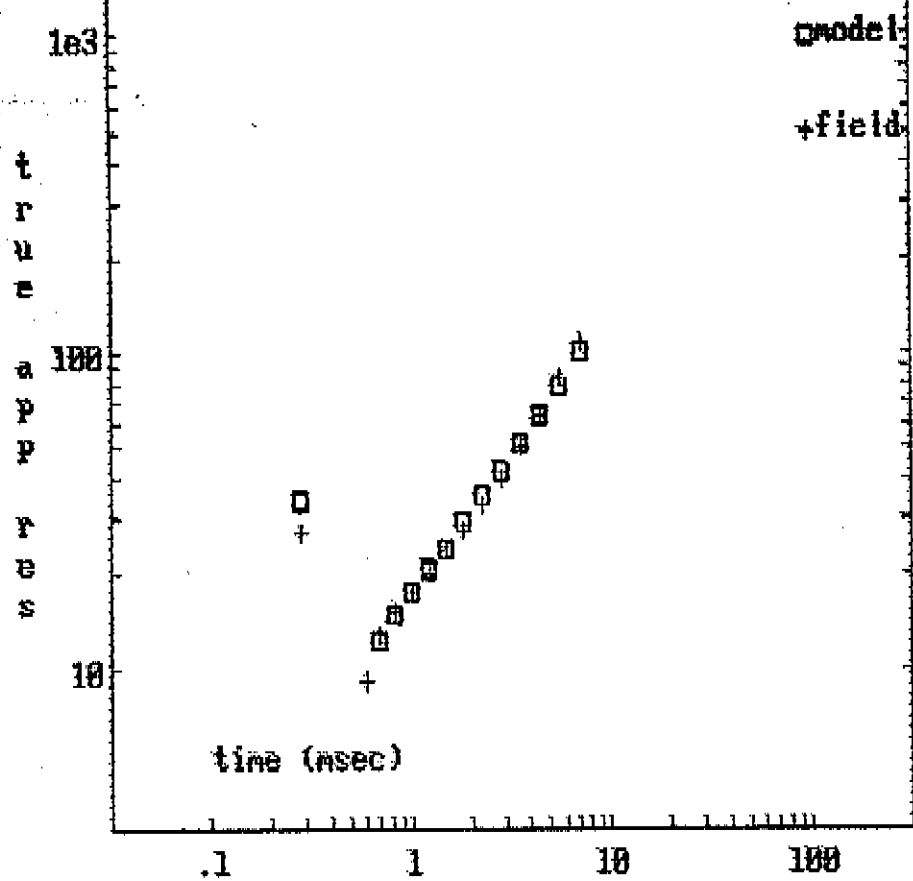
(4890)

STD ERR- 3.1% : S- 7 S

E= 3%

S= 75

Sounding 132102 : Ver 1



SOUNDING: 132102 : Vers 1
Y132/102 25 Hz

132102A

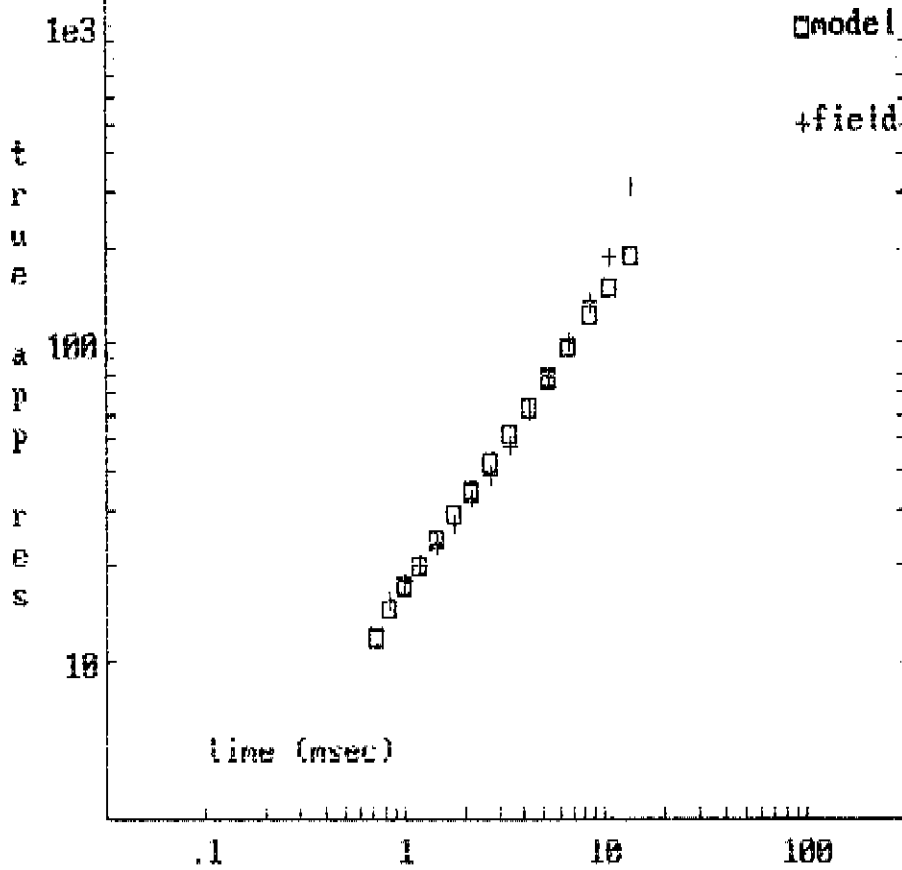
73.2 dhm.m	4.5 m. (4.5 m.)
* 8.2 dhm.m	* 32.8 m.
* 37.3 m.	
* 3841 dhm.m	

73.2
* 8.2
* 3841

STD ERR= 5.3% ; S= 4 S

E= 5%
S= 45

Sounding 132102 : Ver 2



SOUNDING: 132102 : Vers 2
Y132/102 6.25 Hz

* 8.0 ohm.m	* 31.4 m
5863 ohm.m	* 31.4 m.

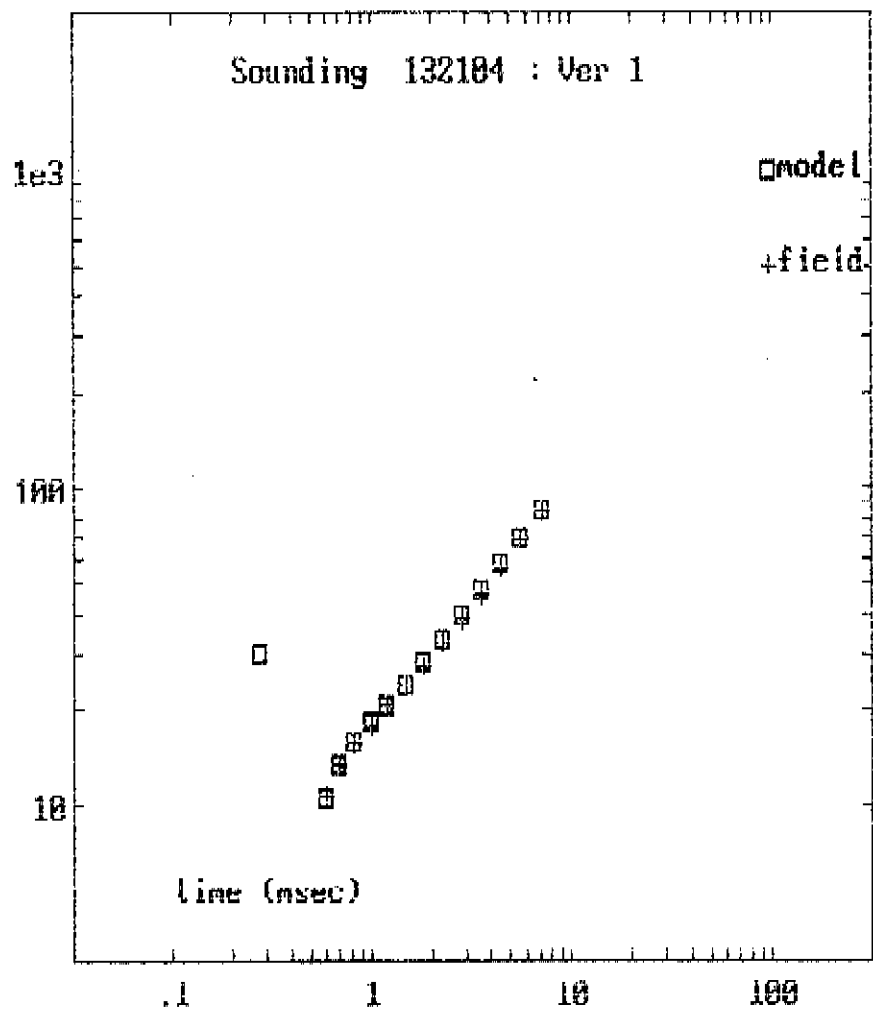
STD ERR= 7.2% . S= 4 S

132102A

* 8.0
5863

E= 7%
S= 45

t
r
u
e
a
p
p
r
e
s



SOUNDING: 132104 : Vers 1
Y132/104 25 Hz

* 12.4 ohm.m	* 53.0 m.
(884 ohm.m)	* 53.0 m.

STD ERR= 3.2% : S= 4 S

132104A

* 12.4
(884)

E= 3%
S= 15

Sounding 132104 : Ver 2

□ model

+ field

t
r
u
e

a
p
p
r
e
s

1e3

100

10

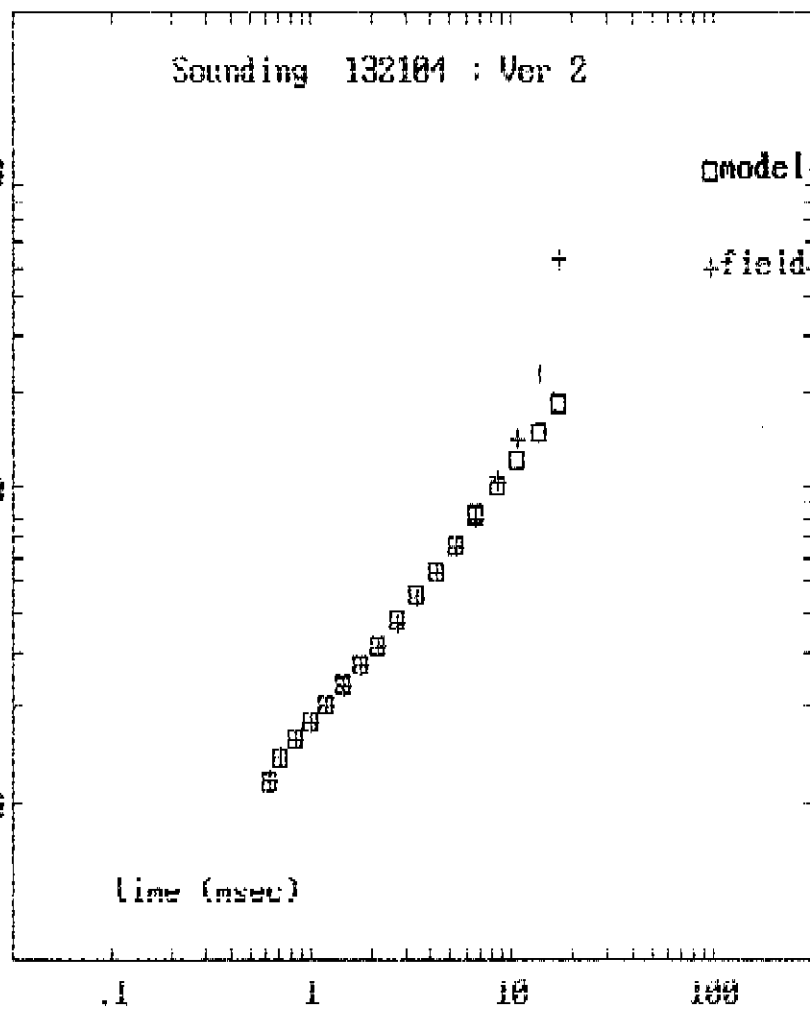
(line (msec))

.1

1

10

100



SOUNDING: 132104 : Vers 2
Y132/104 6.25 Hz

* 12.5 ohm.m	* 54.7 m.
2539 ohm.m	* 54.7 m.

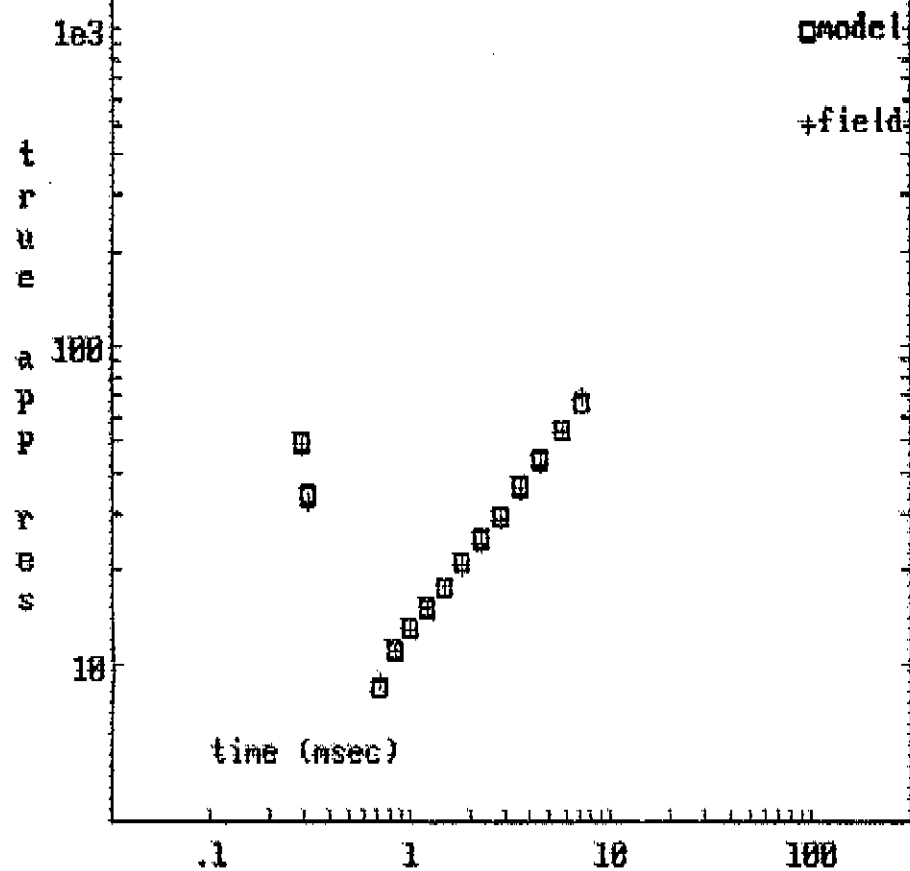
STD ERR= 2.4% : 8- 4 S

132104A

* 12.5
2539

E= 2%
S= 4S

Sounding 132106 : Ver 1



SOUNDING: 132106 : Vers 1
Y132/106 25 Hz

132106A

(78.8 ohm.m) * 7.1 m.

(78.8)

7.1 m.

* 6.8 ohm.m * 33.2 m

* 6 6

* 40.3 m.

(1453 ohm.m)

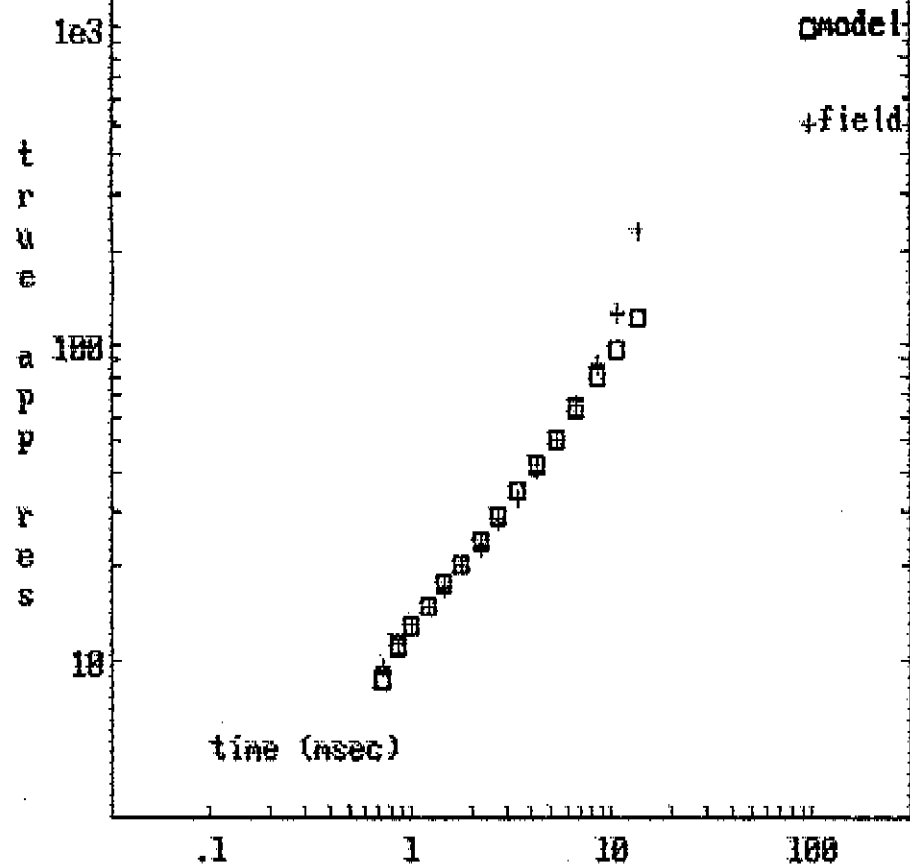
(1453)

STD ERR= 2.2% : S- 6 S

E= 2%

S= 66

Sounding 132106 : Ver 2



SOUNDING: 132106 : Vers 2
Y132/106 6.25 Hz

132106A

(52.5 ohm.m) (6.3 m.)

(6.3 m.)

(52.5)

* 6.7 ohm.m * 32.4 m.

* 6.7

3327 ohm.m * 36.7 m.

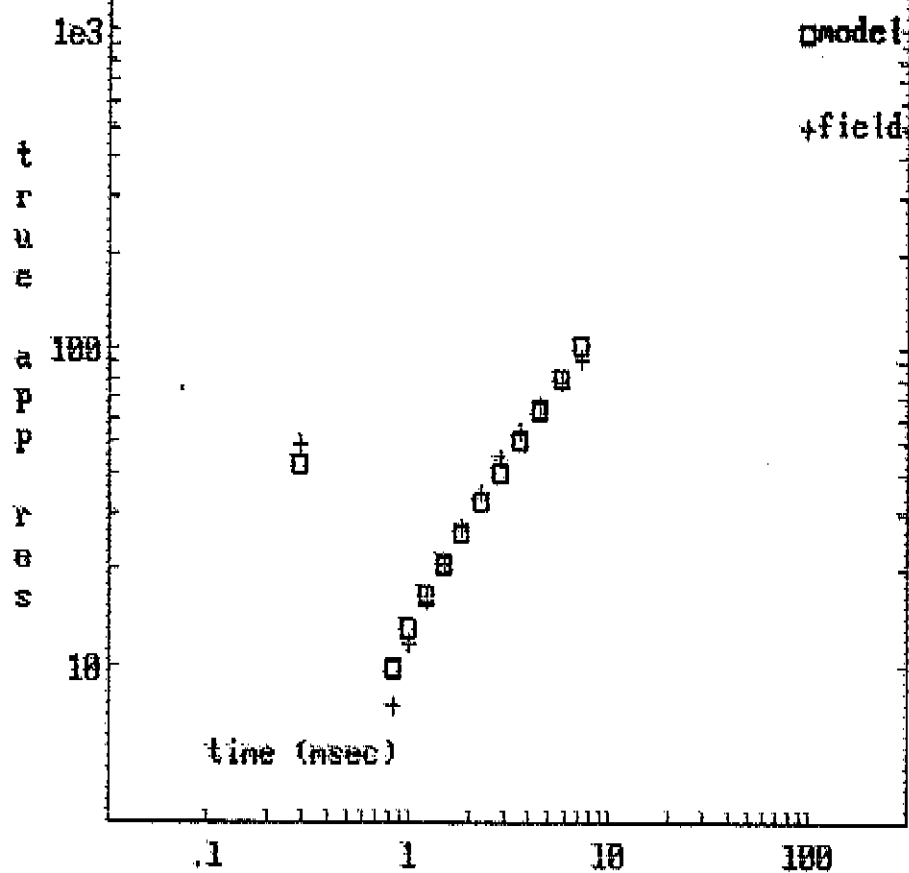
3327

STD ERR= 4.7% : S= 5 S

E= 5%

S= 55

Sounding 132188 : Ver 1



SOUNDING: 132108 : Vers 1
Y132/108 25 Hz

73.7 ohm.m	(1.3 m.)
* .17 ohm.m	* .84 m
(1632 ohm.m)	1.3 m. 2.0 m.

STD ERR=19.2% : S= 4 S

132108A

73.7
* .17
(1632)

E=19%
S= 4S

Sounding 132108 : Ver 2

1e3

□ model

+ field

t
r
u
e

100

a
p
p

r
e
s

10

time (msec)

.1

1

10

100

t
r
u
e
a
p
p
r
e
s

SOUNDING: 132108 : Vers 2
Y132/108 6.25 Hz

~~1.30 ohm.m~~ ~~1.1 m~~ 1.1 m.
1153 ohm.m

STD ERR= 7.5% : S= 45

132108A
~~1.30~~
1153

E= 8%
S= 45

Sounding 132110 : Ver 1

1e3

□model

+field

100

10

time (msec)

.1

1

10

100

Pressure

SOUNDING: 132110 : Vers 1
Y132/110 25 Hz

199.1 ohm.m * 17.9 m 25.5 m:
* 349 ohm.m

STD ERR= 2.1% : S= 4 S

132110A

199.1
* 349

E= 2%
S= 45

Sounding 132110 : Ver 2

1e3

□model

+field

100

10

Time (msec)

.1 1 10 100

t
r
a
n
s
m
i
s
s
i
o
n

SOUNDING: 132110 : Vers 2
Y132/110 6.25 Hz

~~* 8.7 ohm.m * 30.9 m 30.9 m~~

* 302 ohm.m 1156 m.

—————1187 m.
(1754 ohm.m)

STD ERR= 3.5% : S= 7 3

132110A

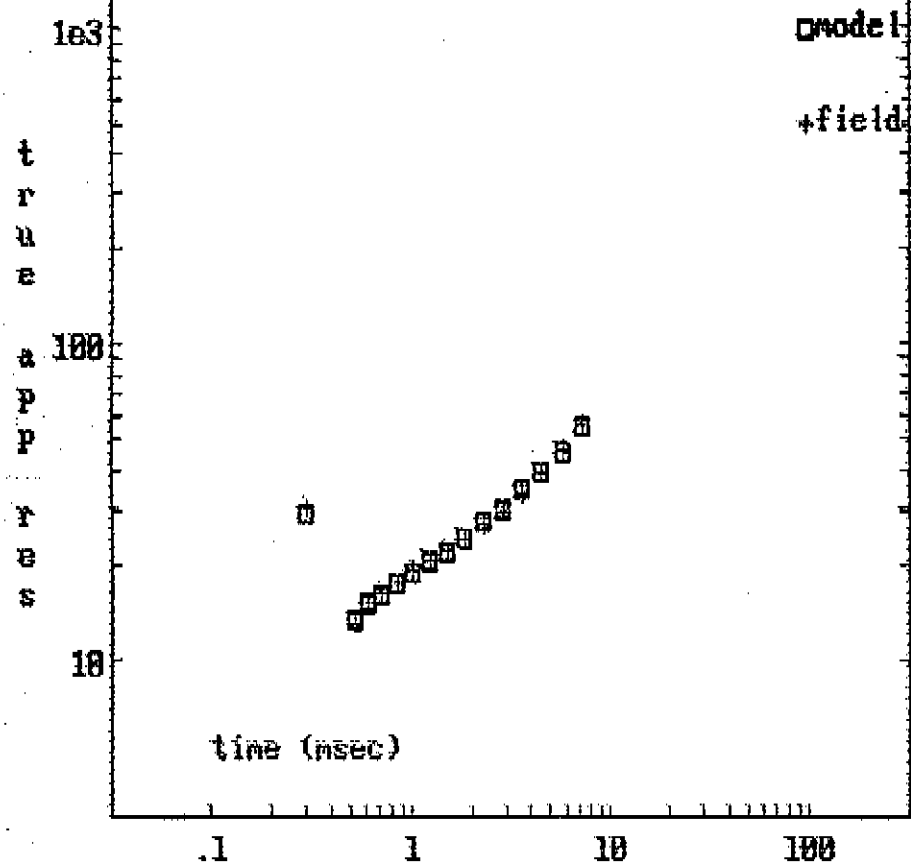
~~* 8.7~~

* 302

—————
(1754)

E= 4%
S= 75

Sounding 132112 : Ver 1



SOUNDING: 132112 : Vers 1
Y132/112 25 Hz

~~(73.5 ohm.m)~~ ~~4.8 m.~~ (4.8 m.)
* 13.5 ohm.m 41.1 m.
* 45.9 m.

* 38.4 ohm.m * 117 m.

_____* 163 m.
(574 ohm.m)

132112
~~(73.5)~~
* 13.5

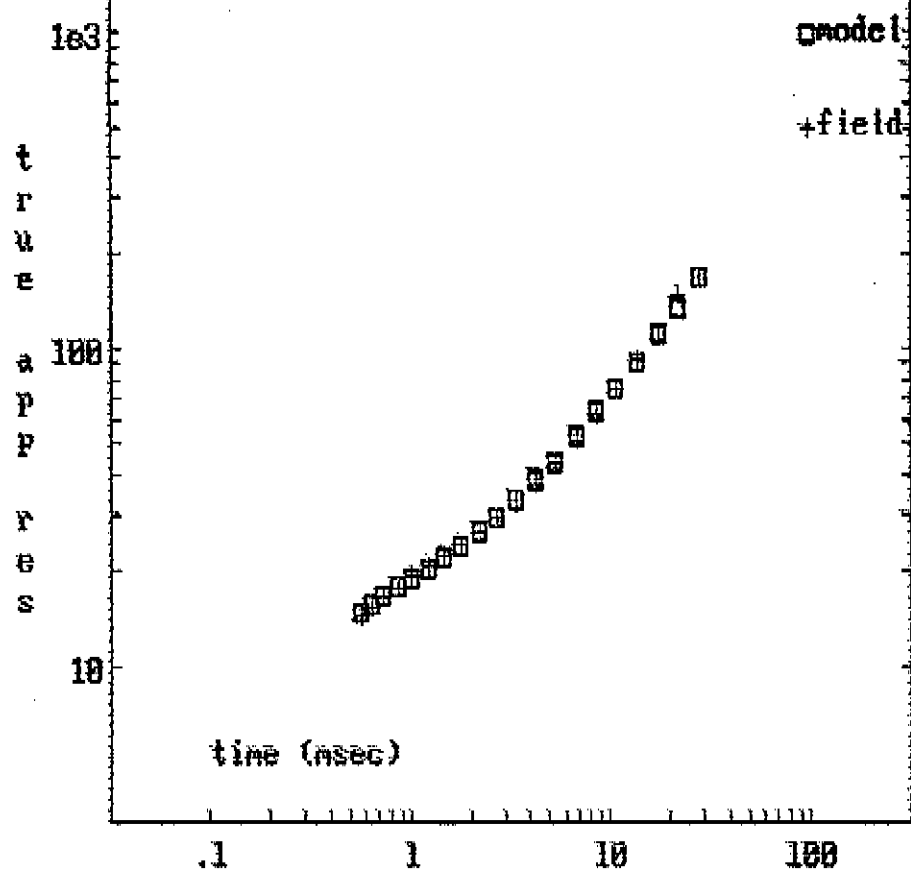
* 38.4

(574)

STD ERR= 1.7% : S= 6 S

E= 2%
S= 65

Sounding 132112 : Ver 2



SOUNDING: 132112 : Vers 2
Y132/112 6.25 Hz

132112A

* 15.2 ohm.m (38.1 m.)
(38.1 m.)

* 15.2

* 29.1 ohm.m * 109 m.

* 29.1

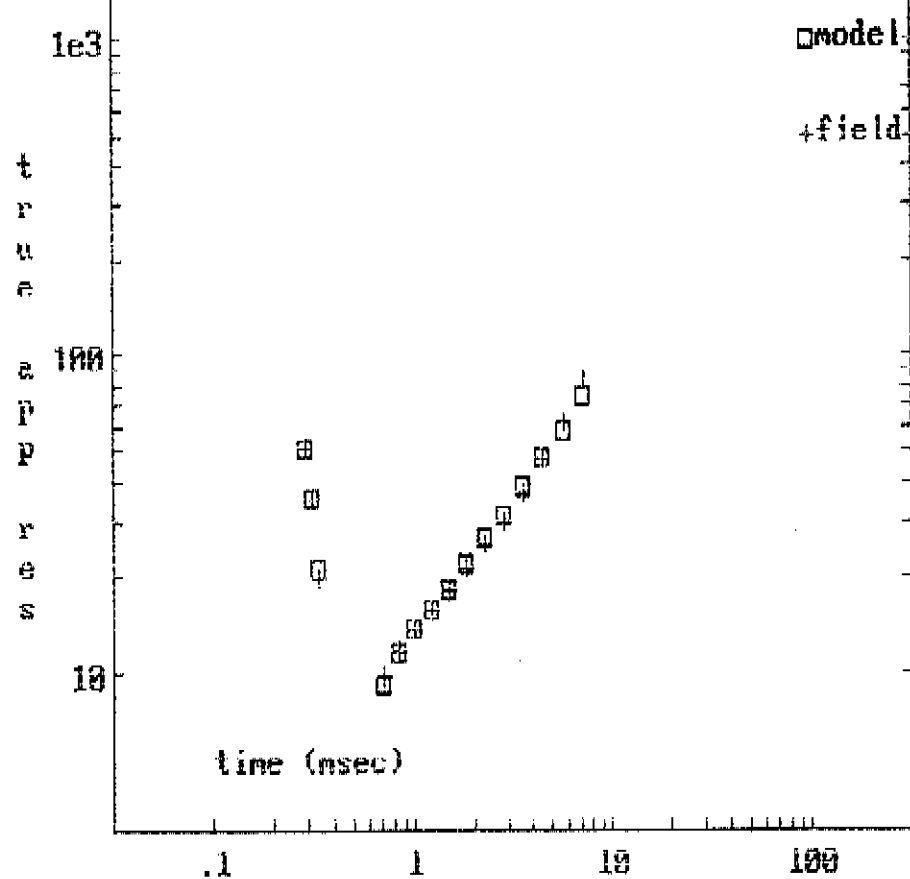
* 147 m.
7681 ohm.m

7681

STD ERR= 2.4% : S= 6 S

E= 2%
S= 65

Sounding 134102 : Ver 1



SOUNDING: 134102 : Vers 1
Y134/102 25 Hz

TH2 0 ohm.m	* 13.2 m	13.2 m.
* 4.4 ohm.m	* 20.1 m	33.3 m.

(1787 ohm.m)

STD ERR= 4.1% : S= 5 S

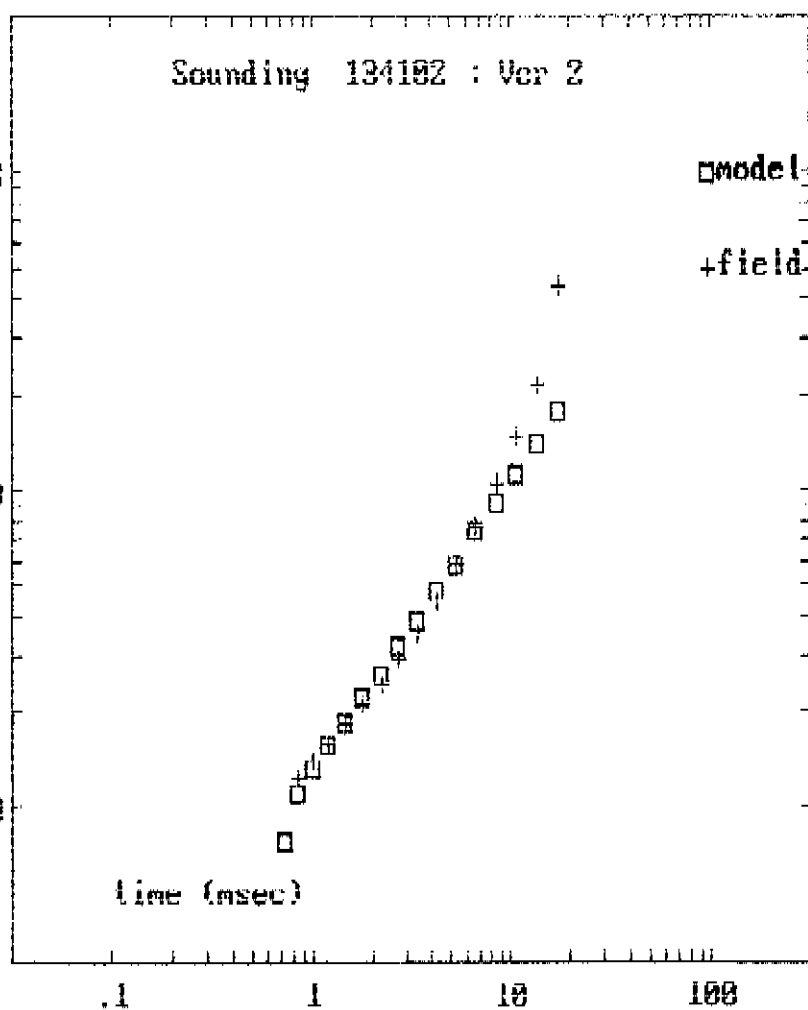
134102A

TH2 0
* 4.4

(1787)

E= 4%
S= 55

time
a
p
p
r
e
s



SOUNDING: 134102 : Vers 2
Y134/102 6.25 Hz

X 6 7 ohm m	* 30.7 m
4559 ohm.m	

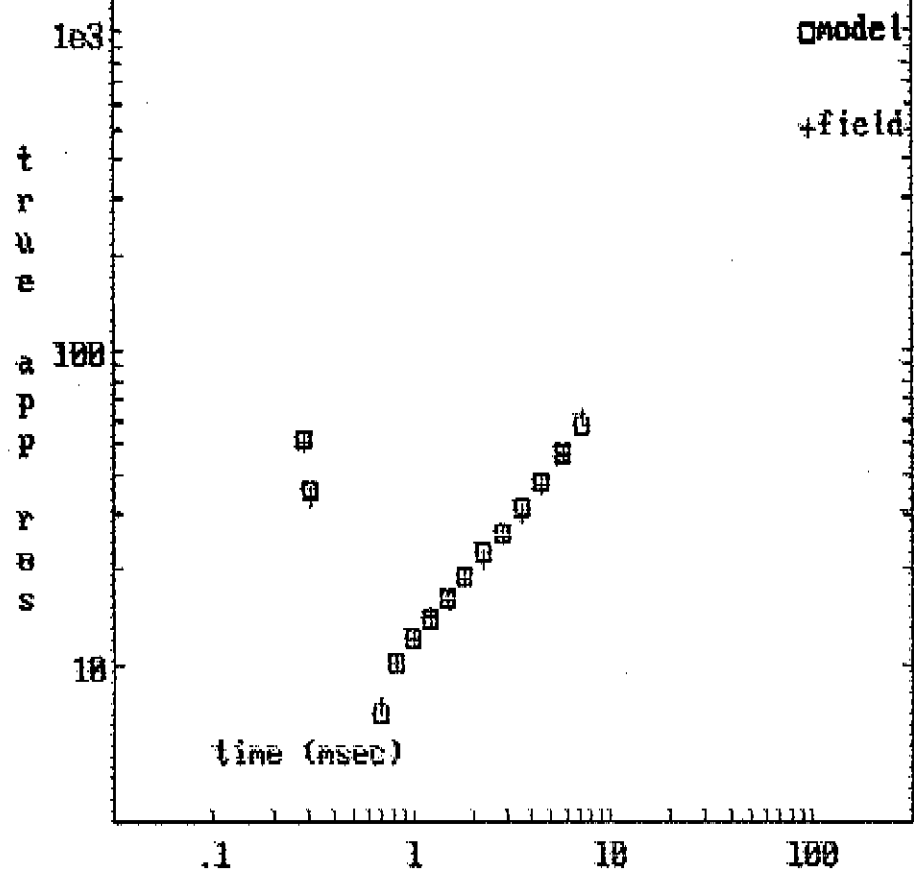
STD ERR= 6.9% : S= 5 S

134102A

X 6 7
4559

E= 9%
S= 55

Sounding 134104 : Ver 1



SOUNDING: 134104 : Vers 1
Y134/104 25 Hz

134104A

* 9.6 ohm.m * 52.9 m.
----- * 52.9 m.
(1756 ohm.m)

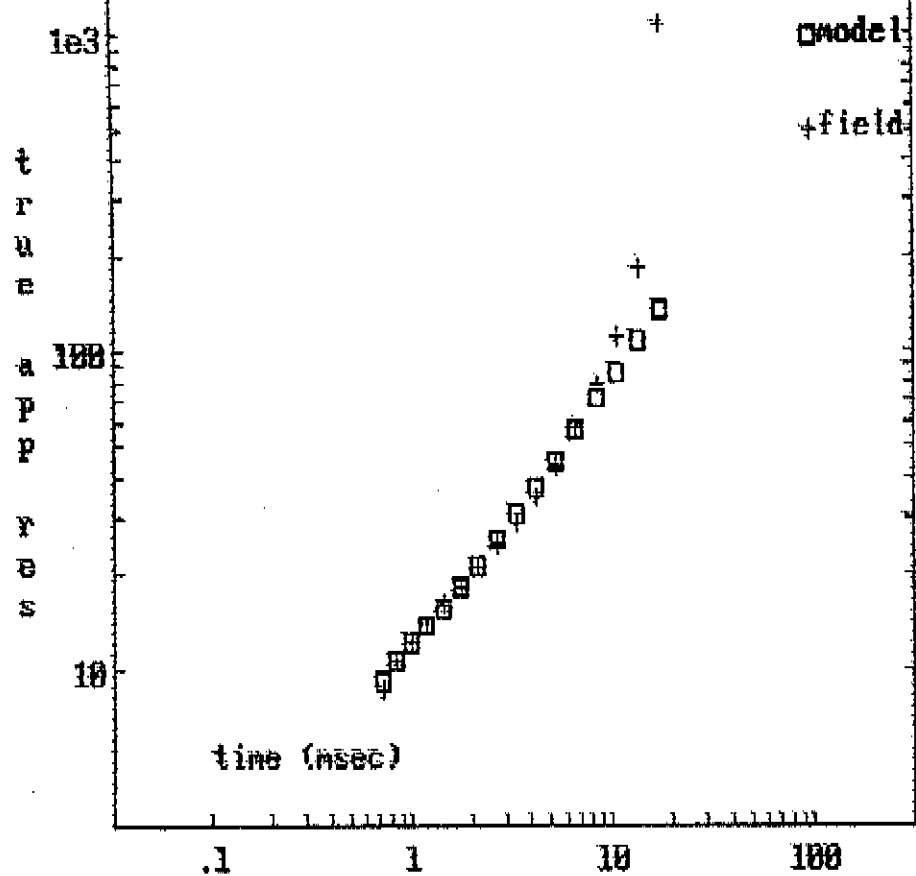
* 9.6

(1756)

STD ERR= 3.2% : S= 5 S

E= 3%
S= 55

Sounding 134184 : Ver 2



SOUNDING: 134104 : Verb 2
Y134/104 6.25 Hz

134104A

(90.5 ohm.m)	20.1 m
2 H ohm.m	14.2 m
(4085 ohm.m)	20.1 m

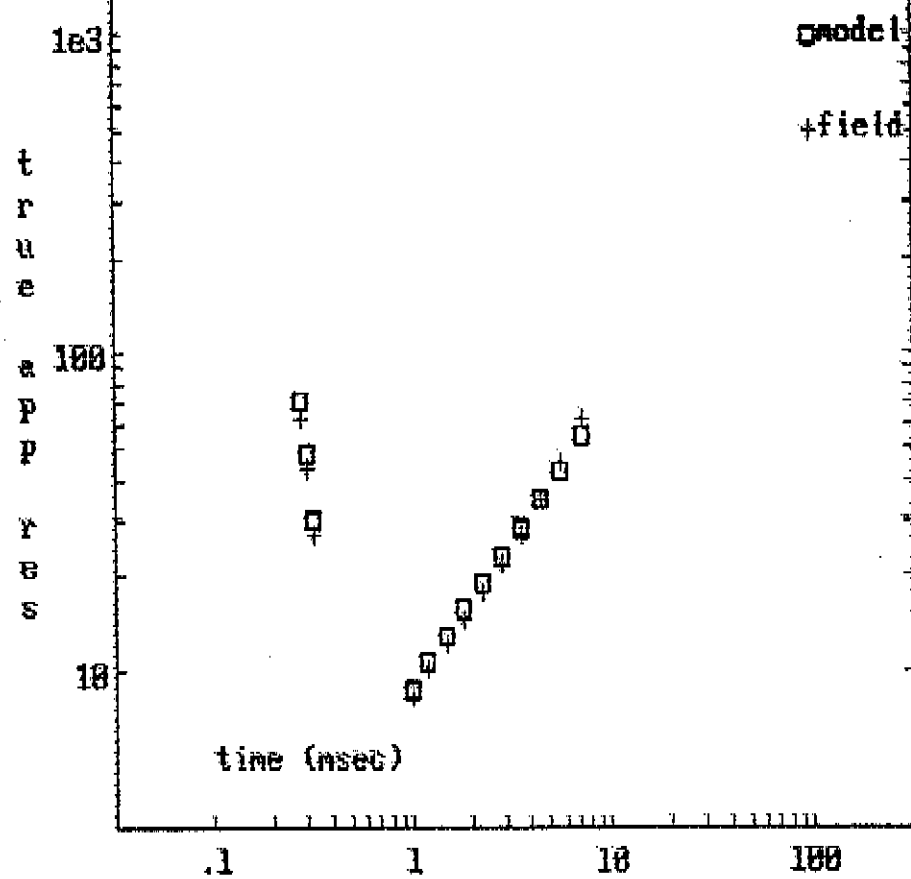
34.3 m.

(90.5)
2 H
(4085)

STD ERR= 5.7% : S= 5 S

E= 6%
S= 55

Sounding 134106 : Ver 1



SOUNDING: 134106 : Vers 1
Y134/106 25 Hz

134106A

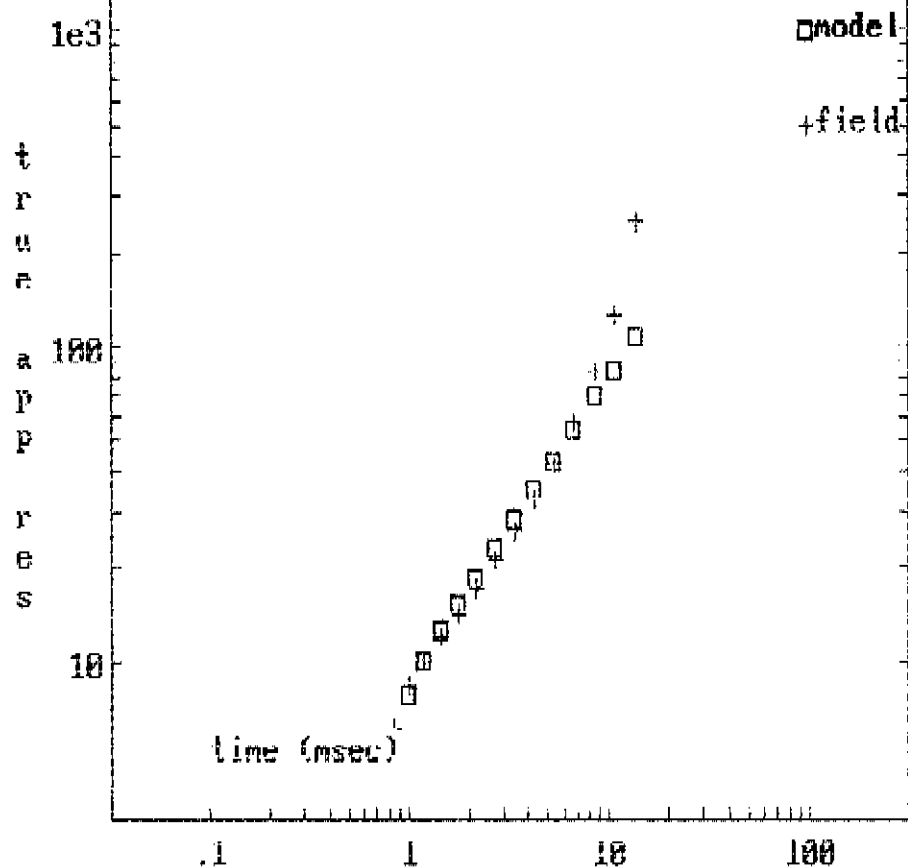
* 5.1 ohm.m	* 28.1 m
* 28.1 m.	
(2537 ohm.m)	

* 5.1
(2537)

STD ERR= 7.7% : S= 5 5

E= 8%
S= 55

Sounding 134106 : Ver 2



SOUNDING: 134106 : Vers 2
Y134/106 6.25 Hz

* 3.0 ohm.m * 15.5 m 15 D m.
3773 ohm.m

STD ERR=10.6% : S= 5 S

134106A

* 3.0
3773

E=11%
S= 55

Sounding 134108 : Ver 1

□ model

+ field

t
r
u
e

a
p
p
r
e
s

1e3

100

10

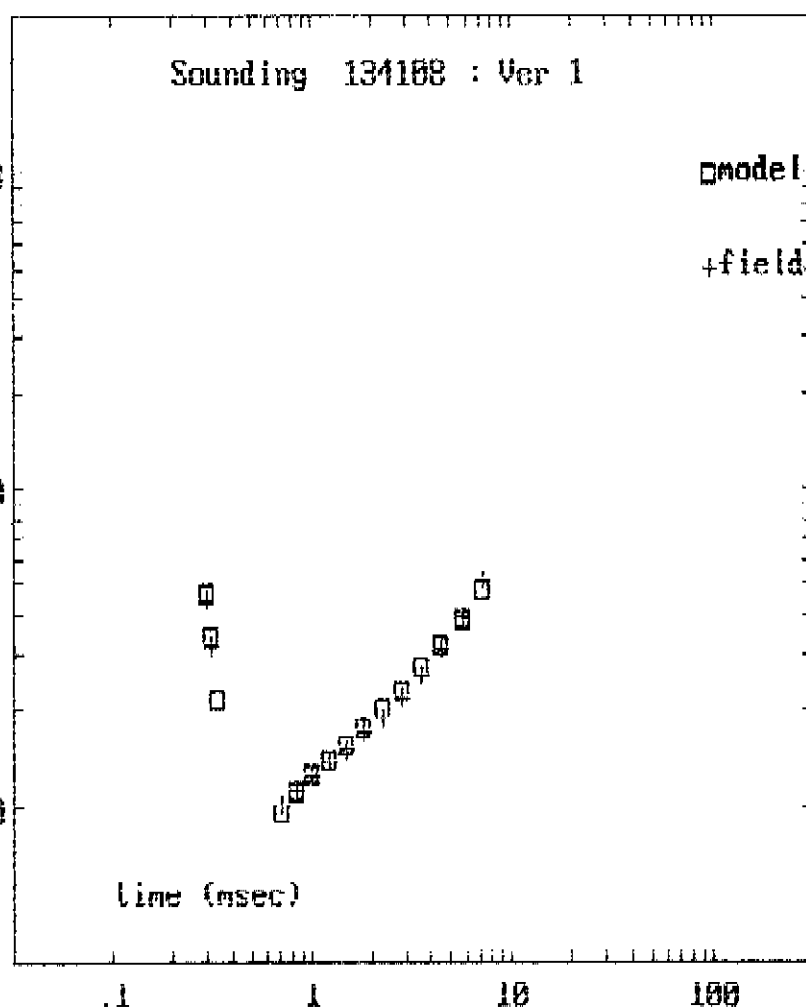
time (msec)

.1

1

10

100



SOUNDING: 134108 : Vers 1
Y134/108 25 Hz

134108A

* 12.1 ohm.m * 77.0 m.

* 77.0 m.
(2533 ohm.m)

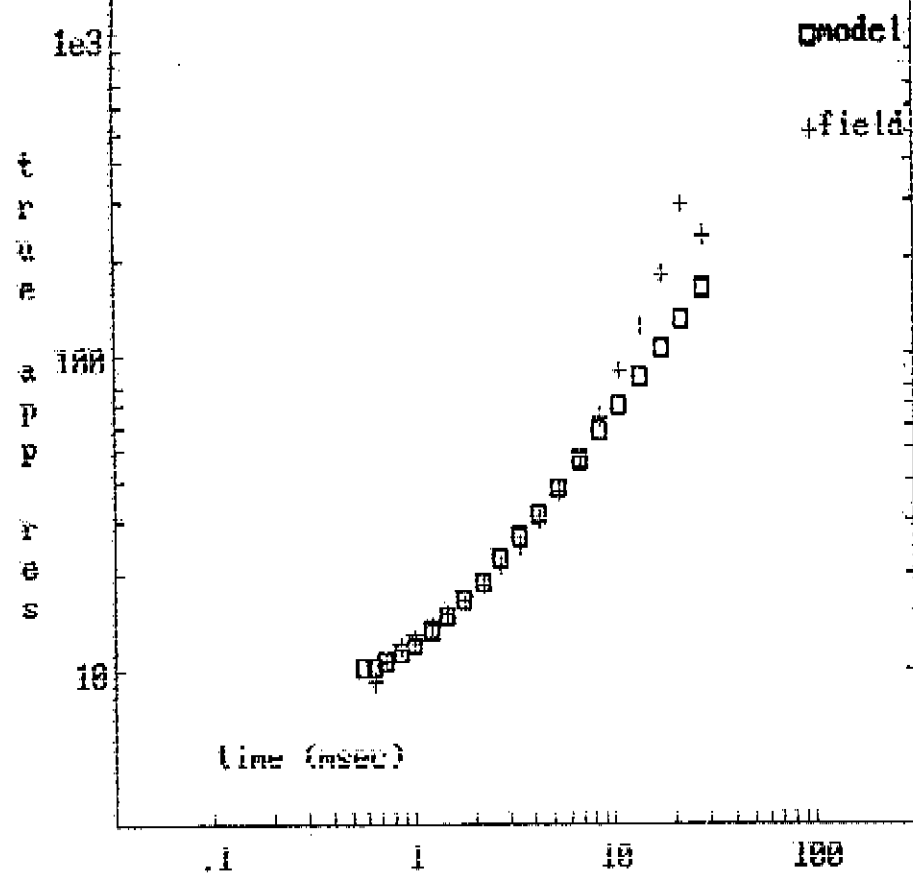
* 12.1

(2533)

STD ERR= 4.6% : S= 6 S

E= 5%
S= 6S

Sounding 134108 : Ver 2



SOUNDING: 134108 : Vers 2
Y134/108 6.25 Hz

134108a

115 ohm.m	23.7 m	23.7 m.
4.2 ohm.m	24.1 m	47.8 m.

(2012 ohm.m)

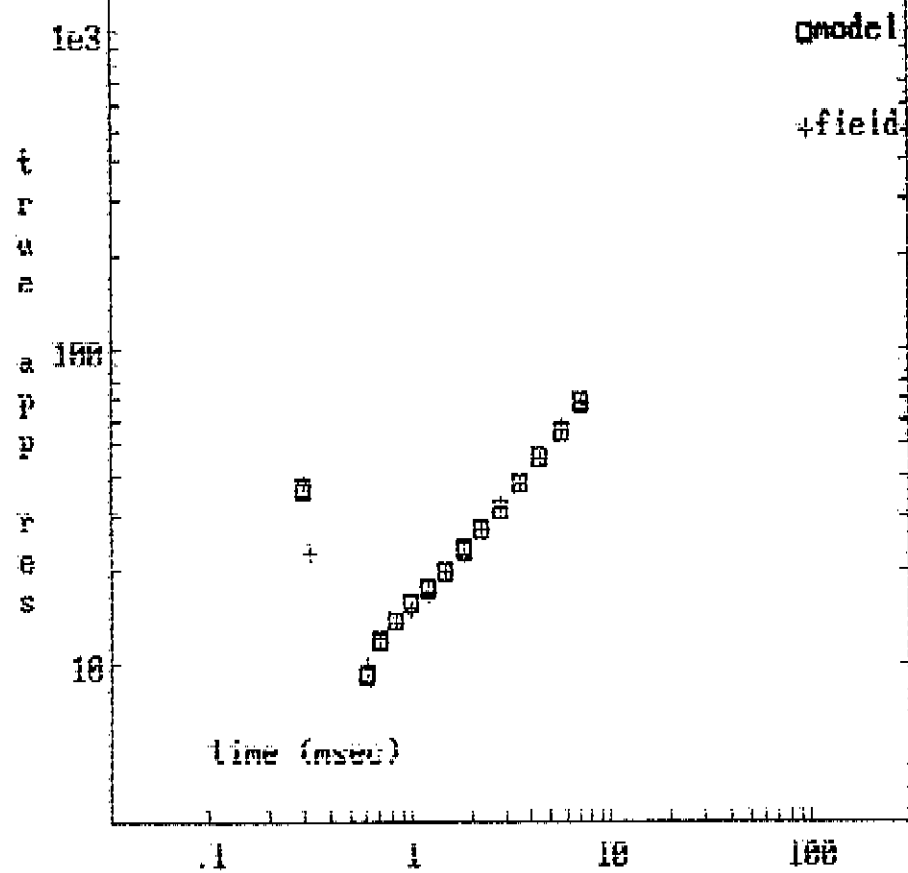
115
4.2

(2012)

STD ERR= 6.2% : S= 6 S

E= 6%
S= 6S

Sounding 134110 : Ver 1



SOUNDING: 134110 : Vers 1
Y134/110 25 Hz

* 12.8 ohm.m

* 65.1 m.

(1654 ohm.m)

* 65.1 m

STD ERR= 2.4% : S= 5 5

134110A

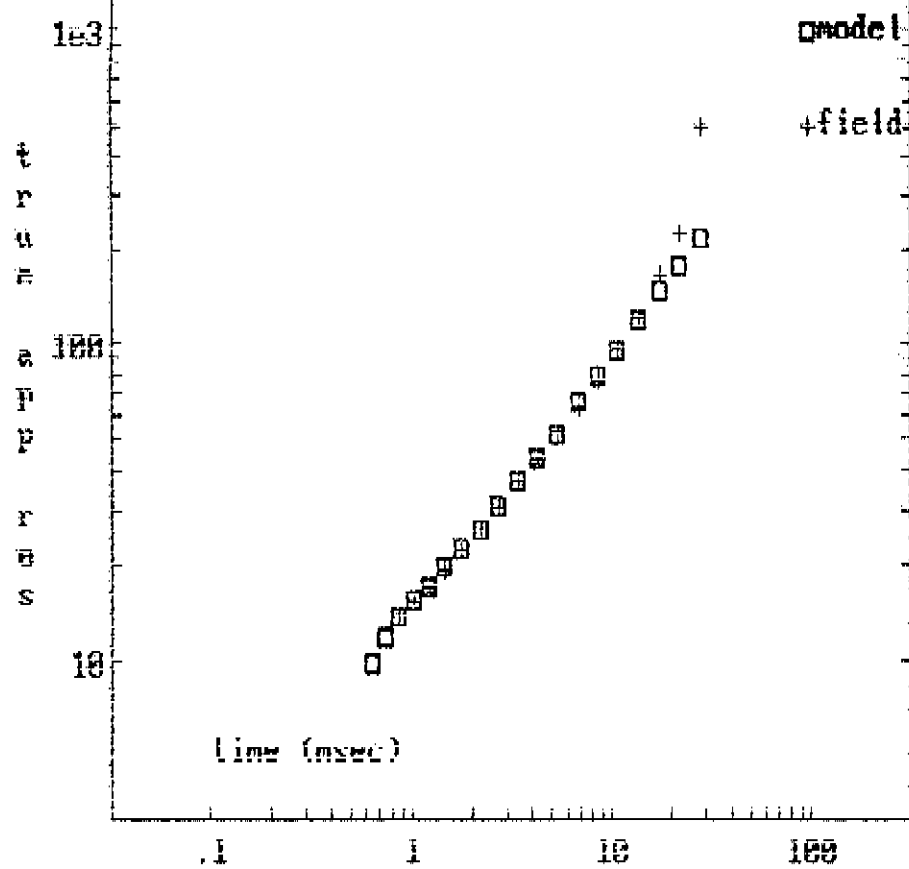
* 12.8

(1654)

E= 2%

S= 55

Sounding 134118 : Ver 2



SOUNDING: 134110 : Verb 2
Y134/110 6.25 Hz

134110A

* 12.1 ohm.m * 60.5 m.

* 60.5 m.
(2246 ohm.m)

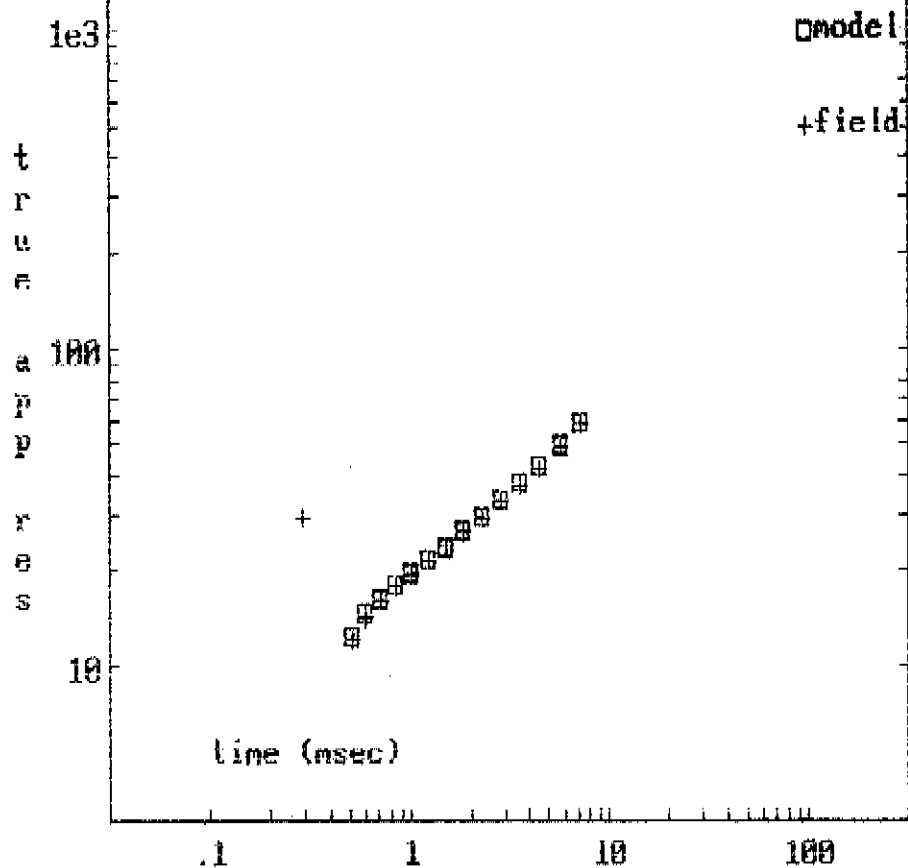
* 12.1

(2246)

STD ERR= 1.9% : S= 5 S

E= 2%
S= 55

Sounding 134112 : Ver 1



SOUNDING: 194112 : Vers 1
Y134/112 25 Hz

194112A

* 16.4 ohm.m

* 71.9 m.

* 16.4

* 71.9 m.

126 ohm.m

268 m.

126

339 m.

(400 ohm.m)

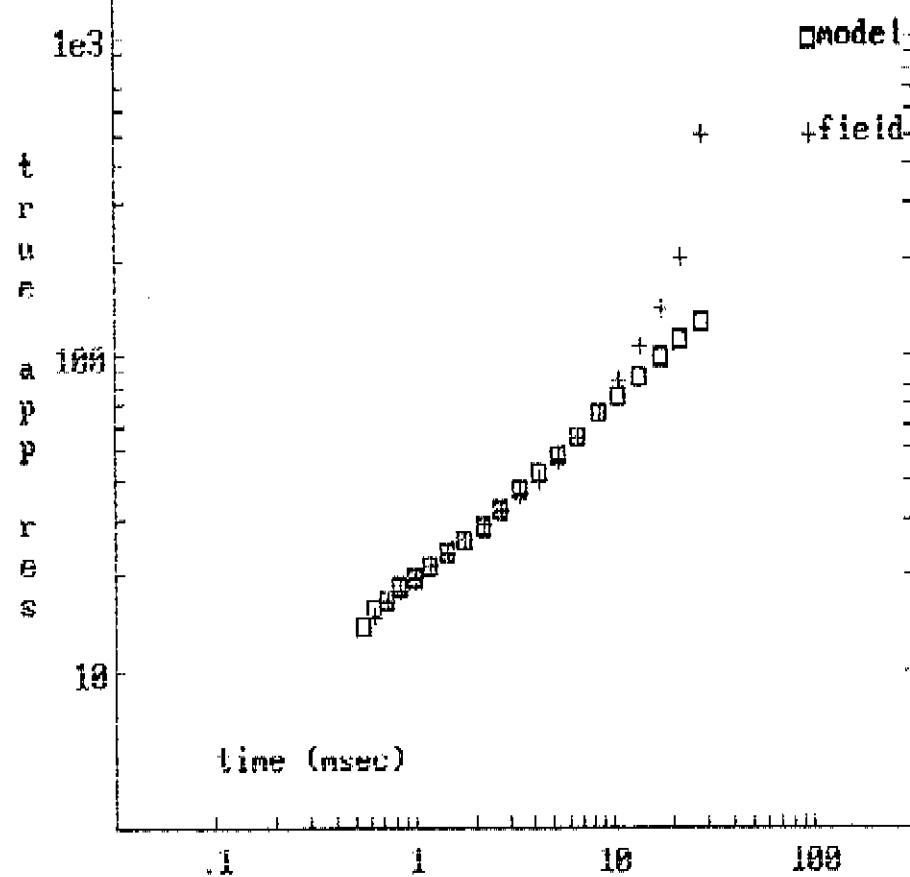
(400)

STD ERR= 1.5% : S- 6 S

E= 2%

S= 65

Sounding 134112 : Ver 2



SOUNDING: 134112 : Vers 2
Y134/112 6.25 Hz

~~5.4 ohm.m~~ (~~5.0 m~~ { 5.0 m.})

* 24.2 ohm.m * 100 m.

-----* 111 m.
351 ohm.m

STD ERR= 2.4% : S- 5 S

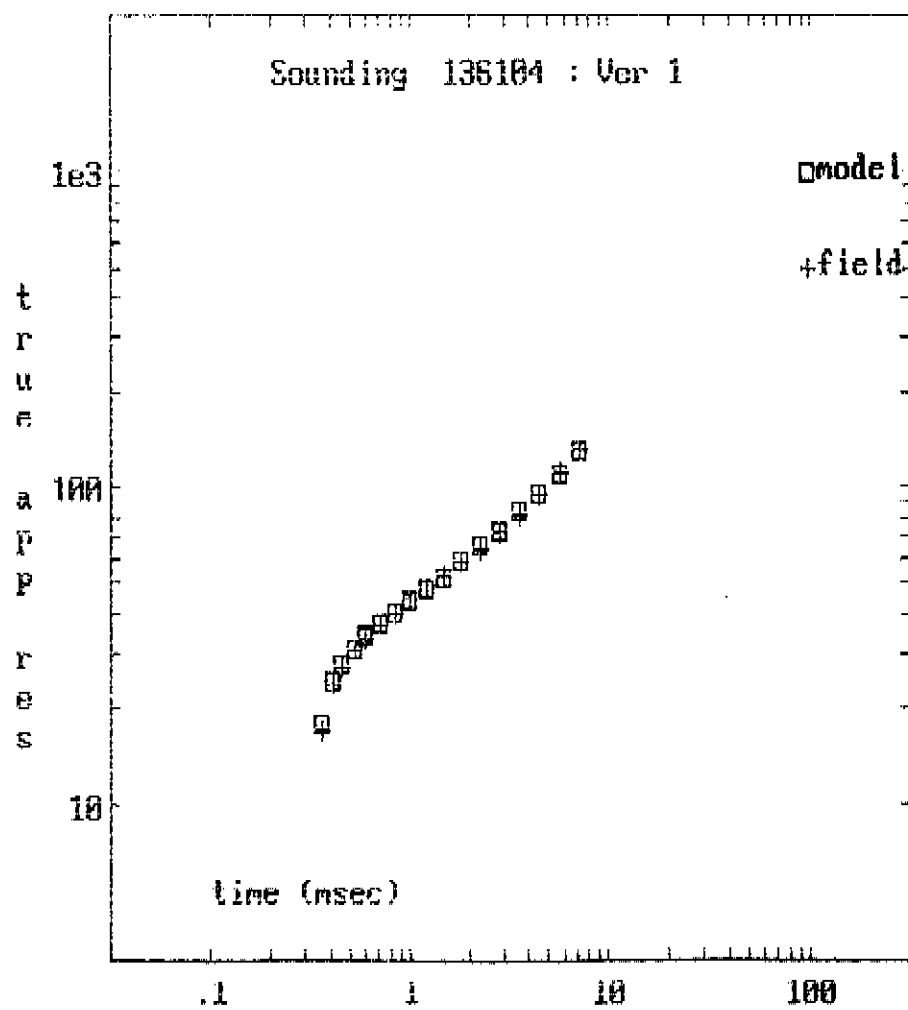
134112A

~~5.4~~

* 24.2

351

E= 2%
S= 55



SOUNDING: 136104 : Vers 1
Y136/104 25 Hz

~~11.8 ohm.m~~ (~~8.4 m~~) (3.4 m.)
* 27.9 ohm.m 44.0 m.
* 47.4 m.

* 108 ohm.m * 230 m.

---* 277 m.
(1378 ohm.m)

STD ERR= 1.7% S= 4 S

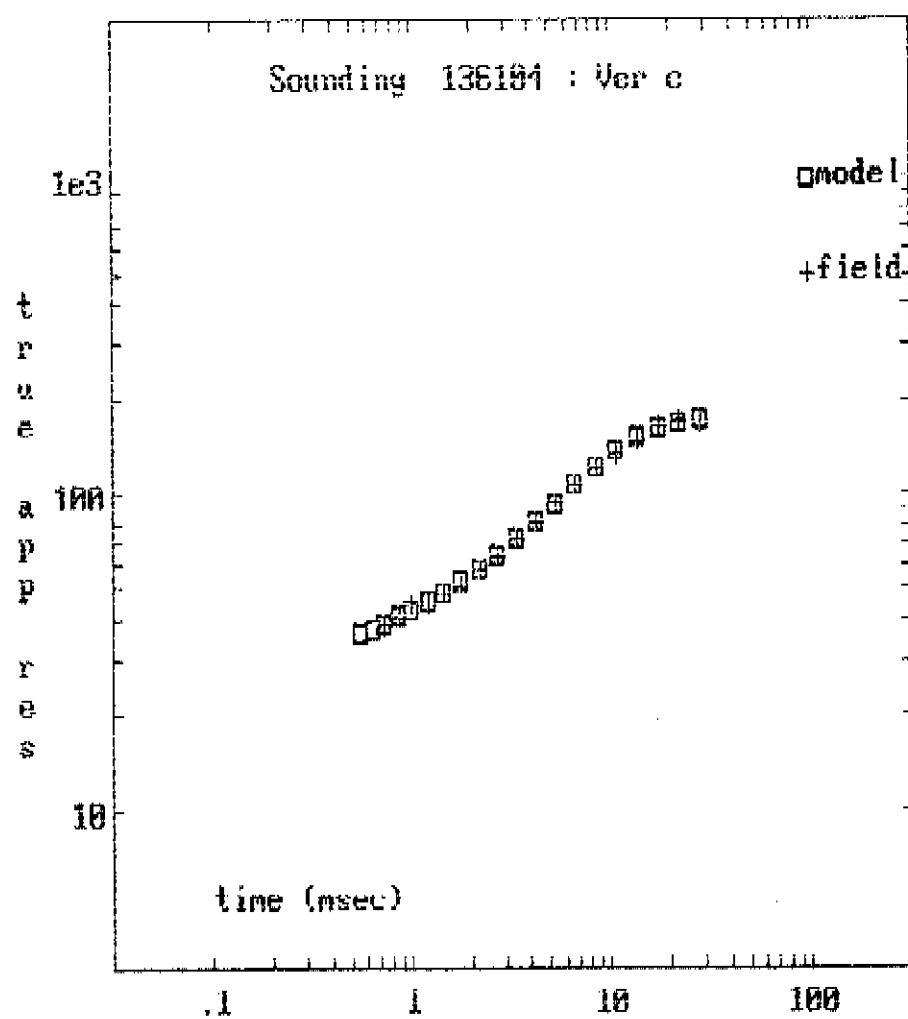
136104A

~~11.8~~
* 27.9

* 108

(1378)

E= 2%



SOUNDING: 136104 : Vers c
Y136/104 6.25 Hz loop corrected

~~18.1 ohm.m~~ ~~10.5 m~~ 10.5 m
* 59.1 ohm m * 195 m.
-----X 205 m.

746 ohm.m X 1134 m.

-----X 1340 m.
105 ohm.m

STD ERR= 2.8% : S= 6 6

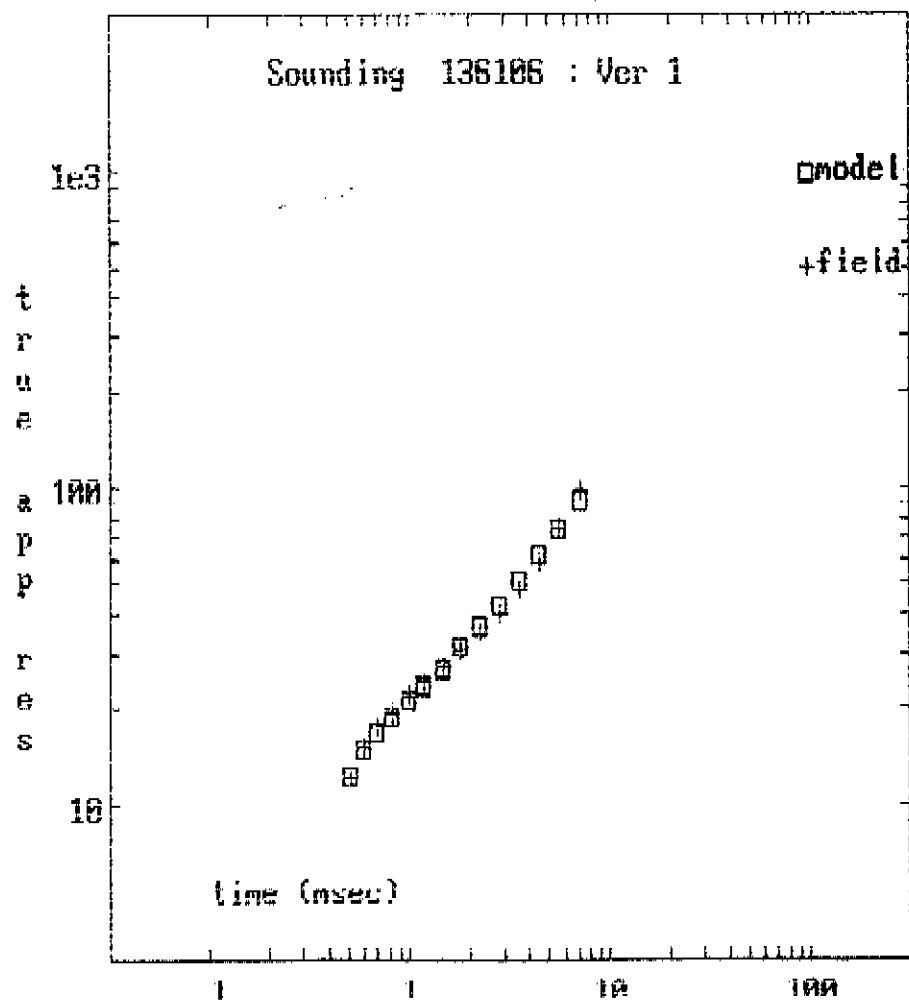
136104A

~~18.1~~
* 59.1

746

105

E= 3%
S= 65



SOUNDING: 136106 : Vers 1
Y136/106 25 Hz

* 16.7 ohm.m * 73.2 m * 73.2 m.
(2300 ohm.m)

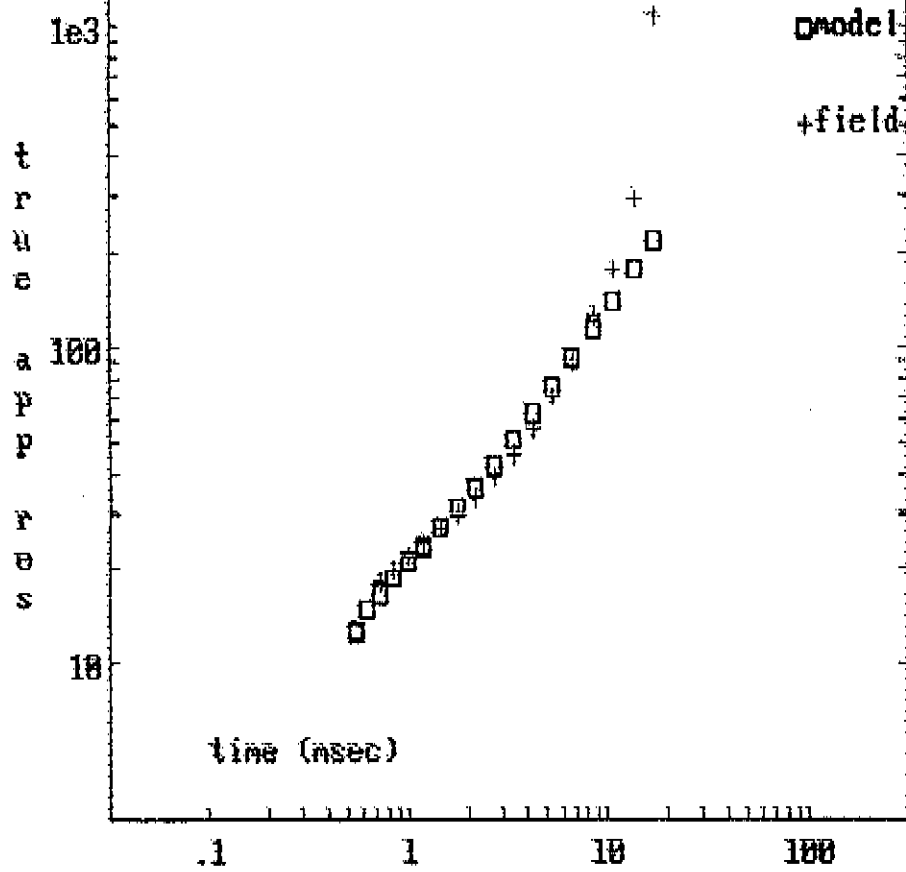
STD ERR= 5.0% : S= 4 S

136106A

* 16.7
(2300)

E= 5%
S= 45

Sounding 136106 : Ver 2



SOUNDING: 136106 : Vers 2
Y136/106 6.25 Hz

136106A

* 15.2 ohm.m

* 83.4 m.

* 15.2

* 53.4 m.

(9270 ohm.m)

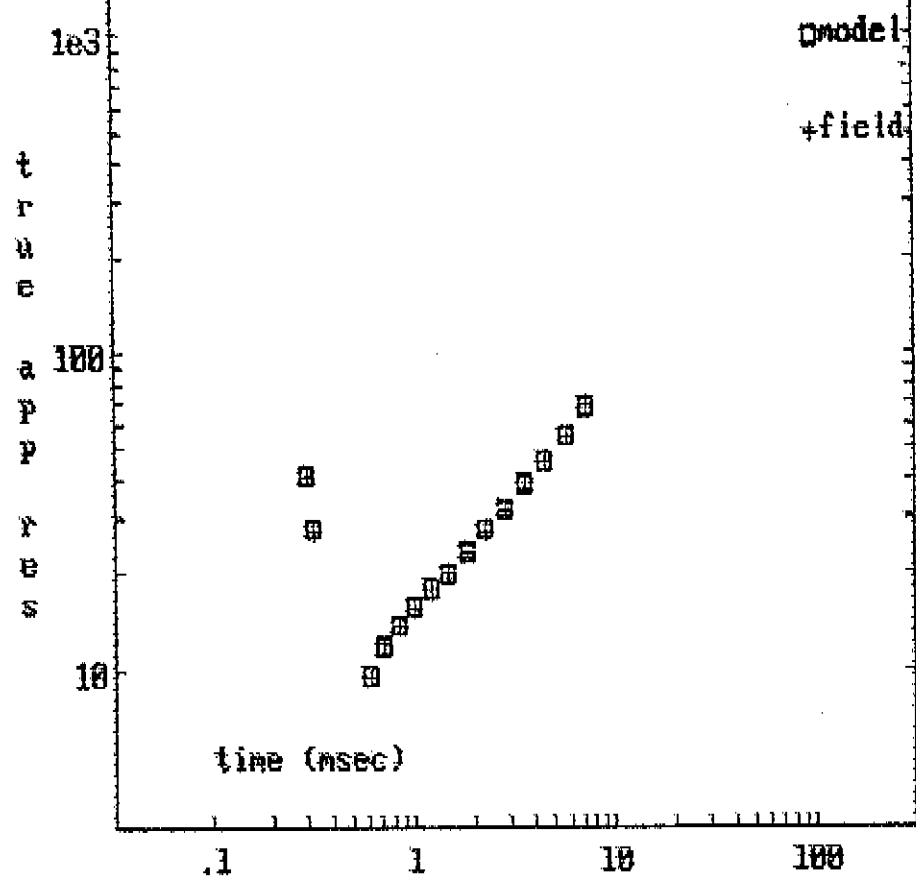
(9270)

STD ERR=12.7% : S= 4 S

E=13%

S= 45

Sounding 136188 : Ver 1



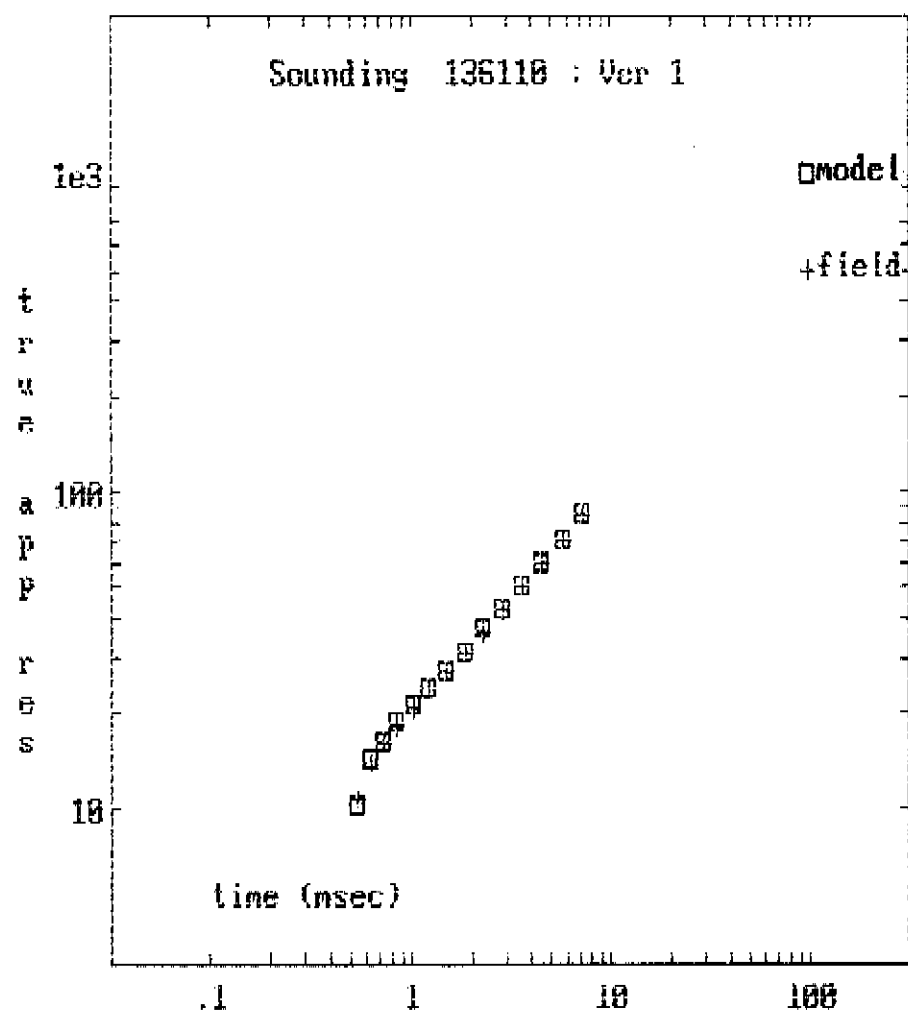
SOUNDING: 136108 : Vers 1
Y136/108 25 Hz

~~(88.7 ohm.m)~~ ~~5.7 m.~~ 5.7 m.
* 10.7 ohm.m * 51.5 m.
* 57.3 m.
(1000 ohm.m)

STD ERR= 1.2% : S= 5 S

136108A
~~(88.7)~~
* 10.7
(1000)

E= 1%
S= 05



SOUNDING: 136110 : Vers 1
Y136/110 25 Hz

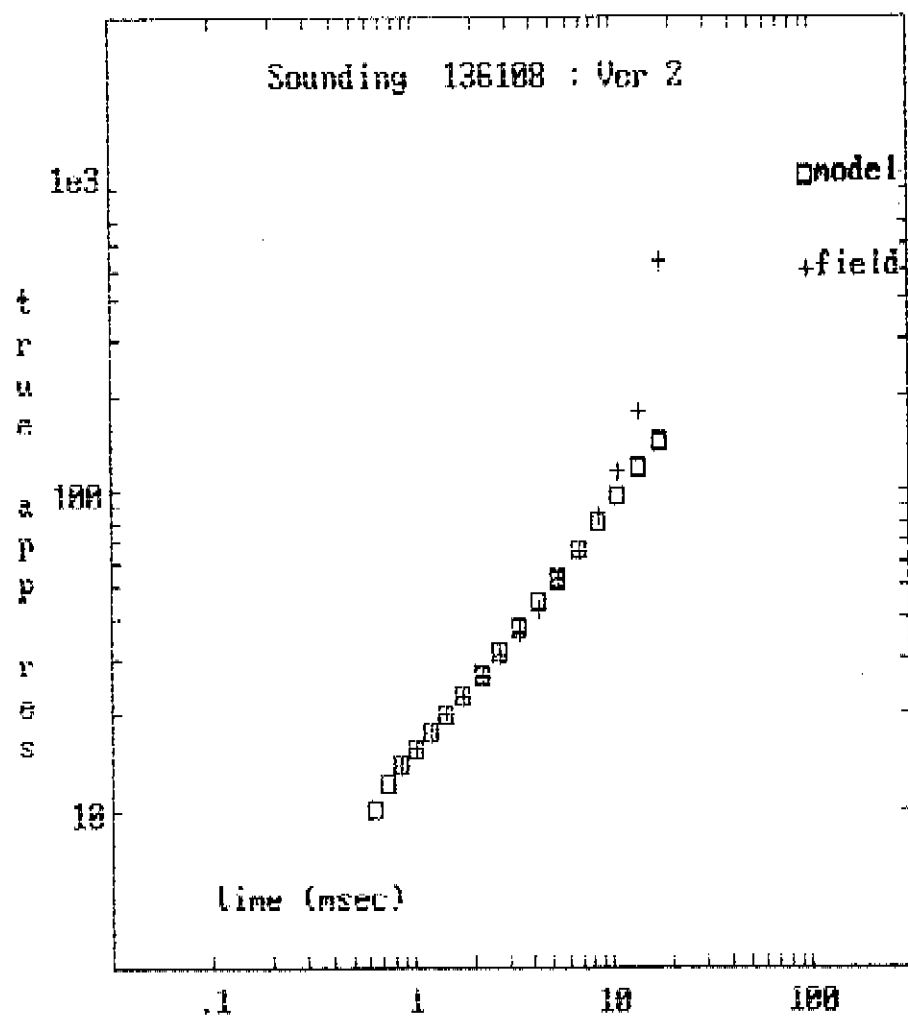
* 14.9 ohm.m	* 60.4 m.
* 480 ohm.m	* 60.4 m.

STD ERR= .9% : S= 4 8

136110A

* 14.9
* 480

E= 1%
S= 45



SOUNDING: 136108 : Vers 2
Y136/108 6.25 Hz

* 12.2 ohm.m	* 60.1 m.
1820 ohm.m	* 60.1 m.

STD ERR= 2.4% : S= 5 6

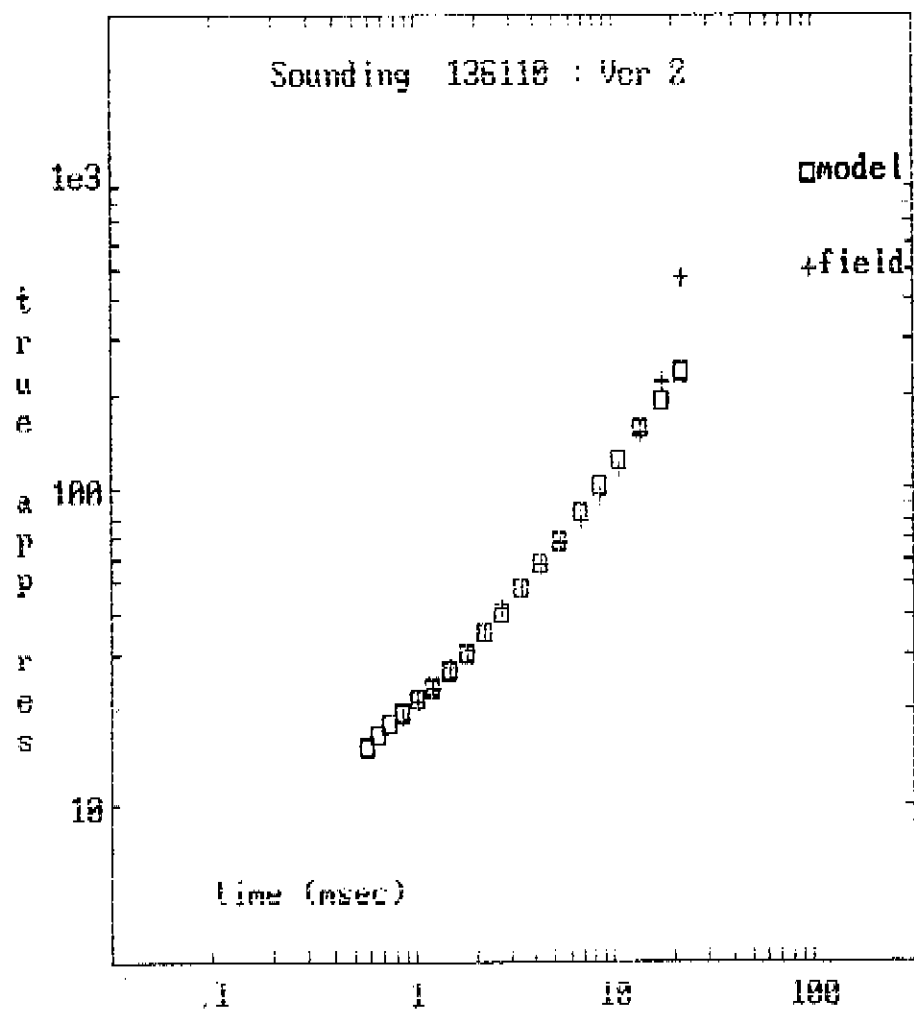
136108

* 12.2

1820

E= 2%

S= 55



SOUNDING: 136110 : Vers 2
Y136/110 6.25 Hz

* 17.7 ohm.m * 79.6 m.

-----* /9.0 m.
(7143 ohm m)

STD ERR= 7.4% : S= 4 S

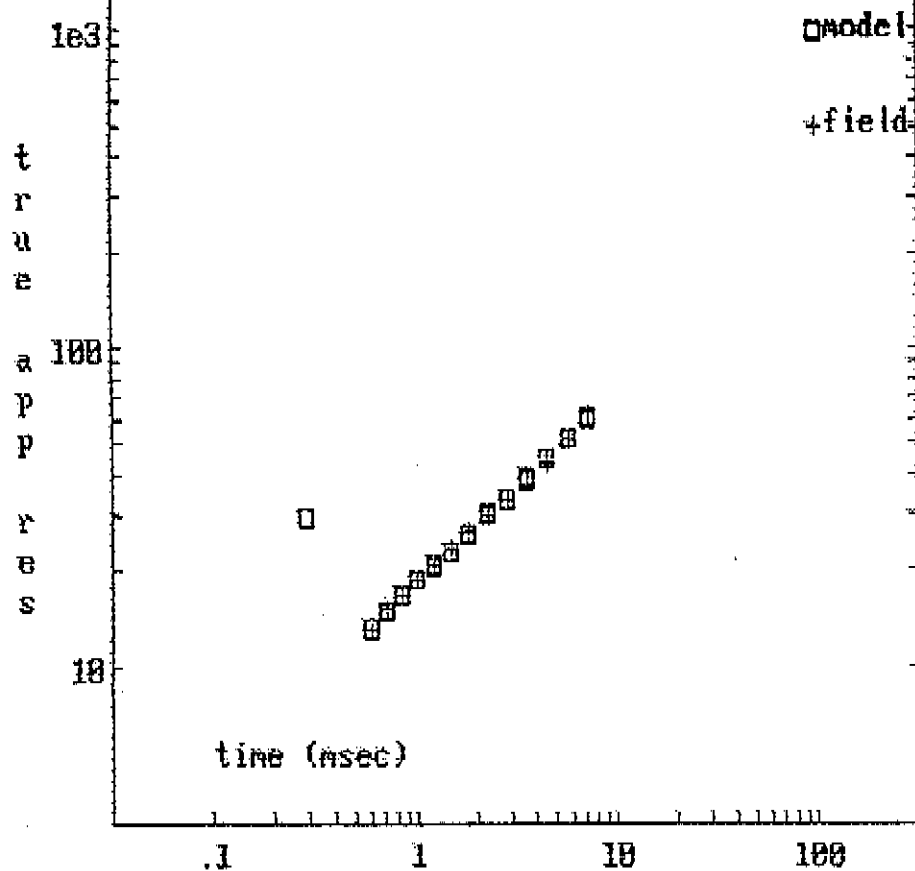
136110A

* 17.7

(7143)

E= 7%
S= 4 S

Sounding 136112 : Ver 1



SOUNDING: 136112 : Vers 1
Y136/112 25 Hz

136112A

* 15.3 ohm.m * 69.0 m.

* 15.3

* 197 ohm.m

* 69.0 m.

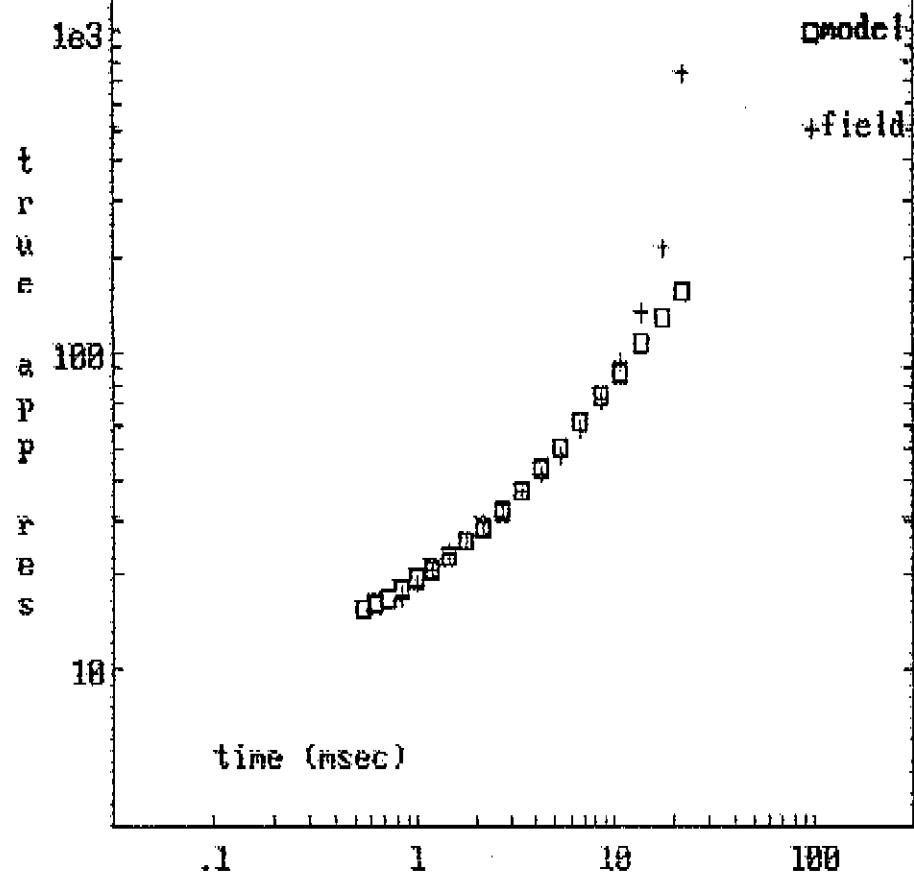
* 197

STD ERR= 2.0% : S= 5 S

E= 2%

S= 55

Sounding 136112 : Ver 2



SOUNDING: 136112 : Vers 2
Y136/112 6.25 Hz

136112A

* 18.3 ohm.m * 98.4 m.

* 18.3

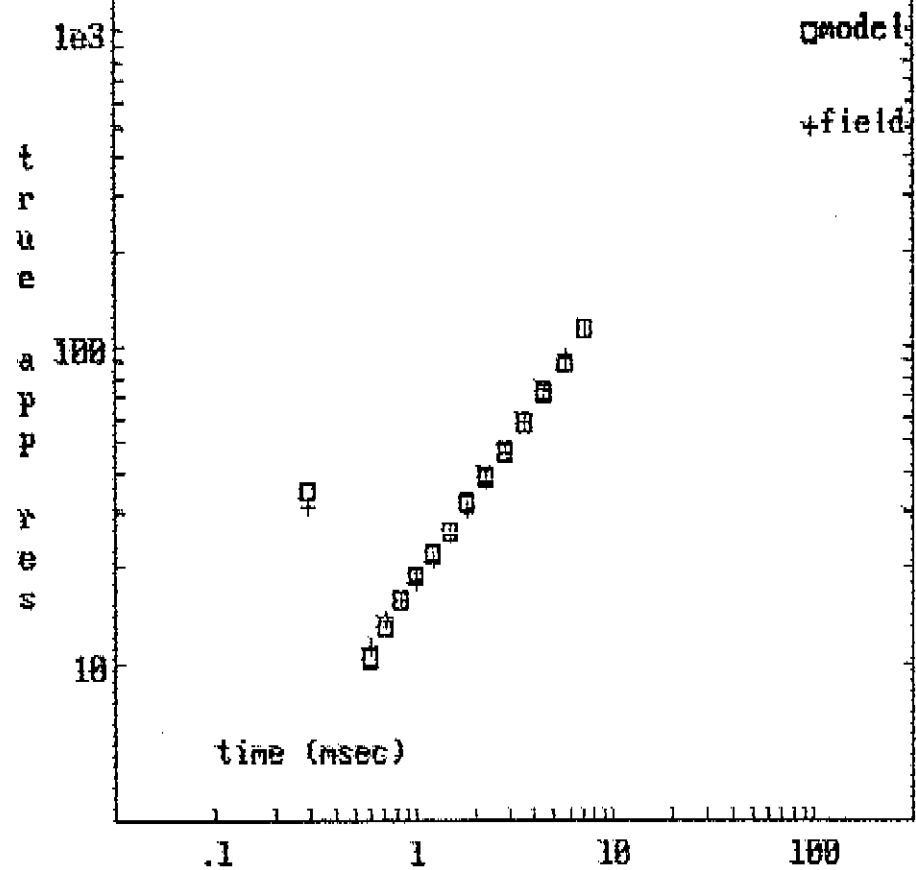
1796 ohm.m

1796

STD ERR= 4.8% : S= 5 S

E= 5%
S= 55

Sounding 148102 : Ver 1



SOUNDING: 140102 : Vers 1
Y140/102 25 Hz

157. ohm.m	7 13.7 m
3.3 BRm m	12.1 m

(9500 ohm.m)

STD ERR= 3.5% : S= 4 S

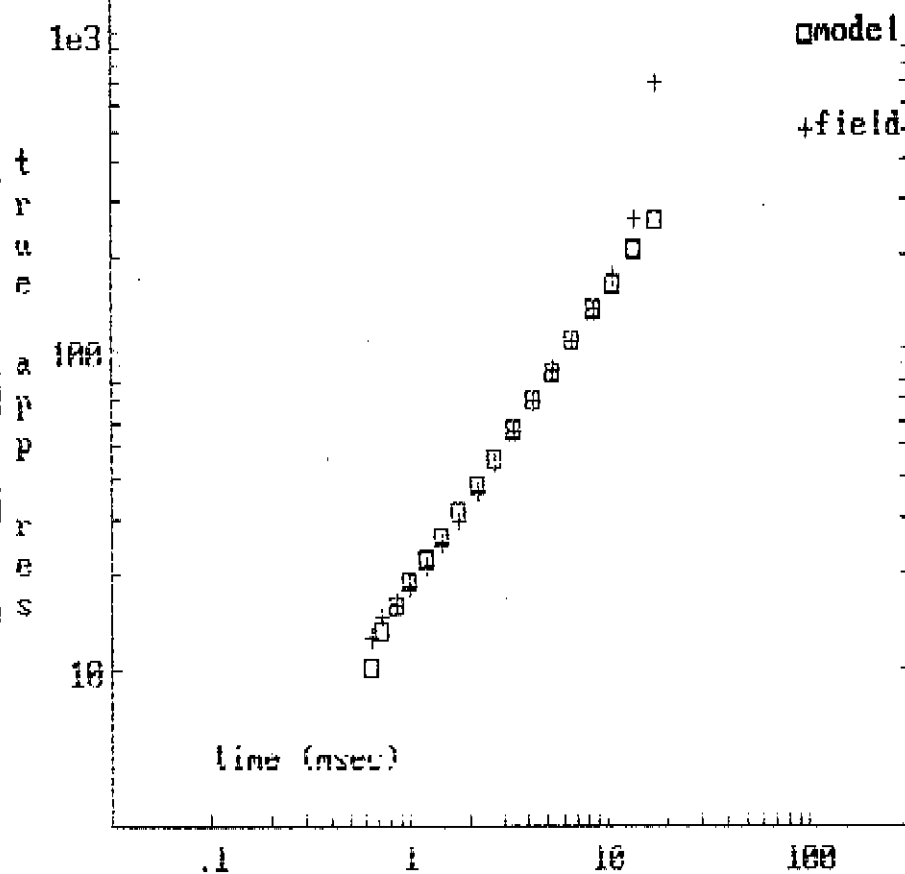
140102A

157
3.3

(9500)

E= 3%
S= 4S

Sounding 140102 : Ver 2



SOUNDING: 140102 : Vers 2
Y140/102 6.25 Hz

* R A ohm m	* 31 0 m
6680 ohm.m	31.0 m

STD ERR- 5.3% . S- 4 S

140102A

X R A
6680

E= 5%
S= 45

Sounding 140104 : Ver 1

1e3

□model

+field

100

t
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10

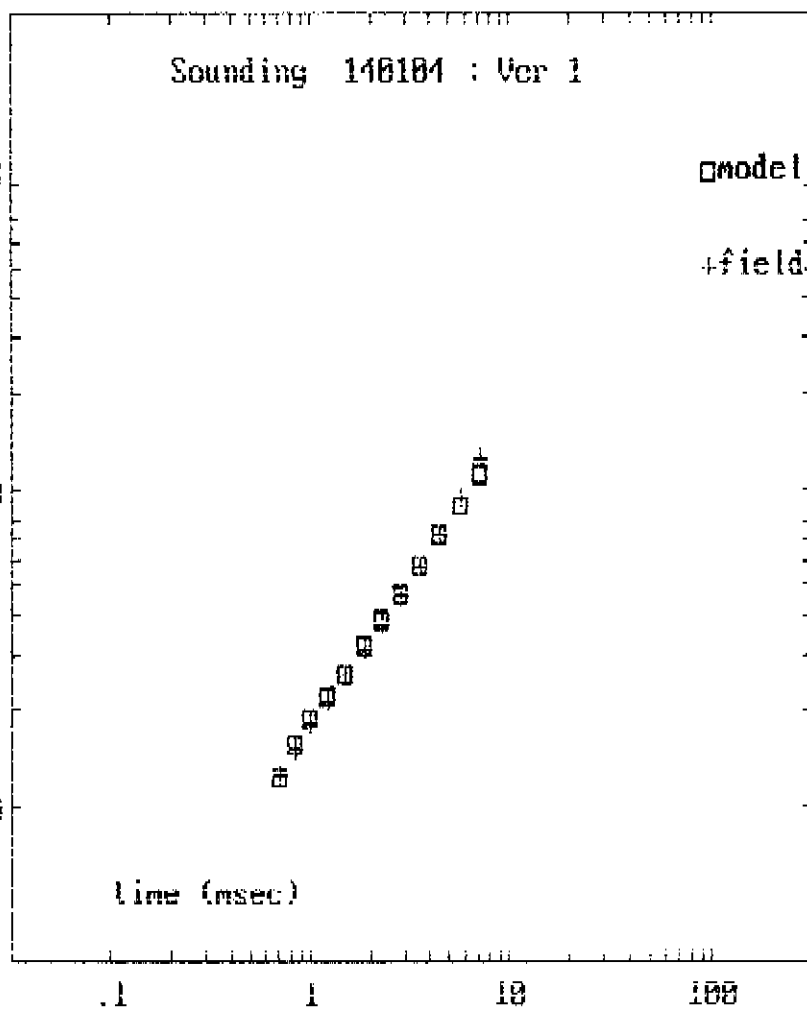
time (msec)

.1

1

10

100



SOUNDING: 140104 : Vers 1
Y140/104 25 Hz

* R 5 nhm m	* R2 2 m
* 32.2 m.	

(3610 ohm.m)

STD ERR= 3.1% : R= 4 S

140104A

* R 5
(3610)

E= 3%
S= 4S

Sounding 140104 : Ver 2

1e3

□ model

+ field

100

10

(time (msec))

.1

1

10

100

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99

SOUNDING: 140104 : Vers 2
Y140/104 6.25 Hz

* 6.8 ohm.m	* 24.8 m	* 24.8 m
4893 ohm.m		

140104A

* 6.8
4893

STD ERR= 5.9% : S= 4 S

Sounding 140106 : Ver 1

1e3

t
r
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e

a 100

p
p

r
e
s

10

mode 1

***field:**

time (msec)

.1	1	10	100
----	---	----	-----

SOUNDING: 140106 : VerB 1
Y140/106 25 Hz

140106A

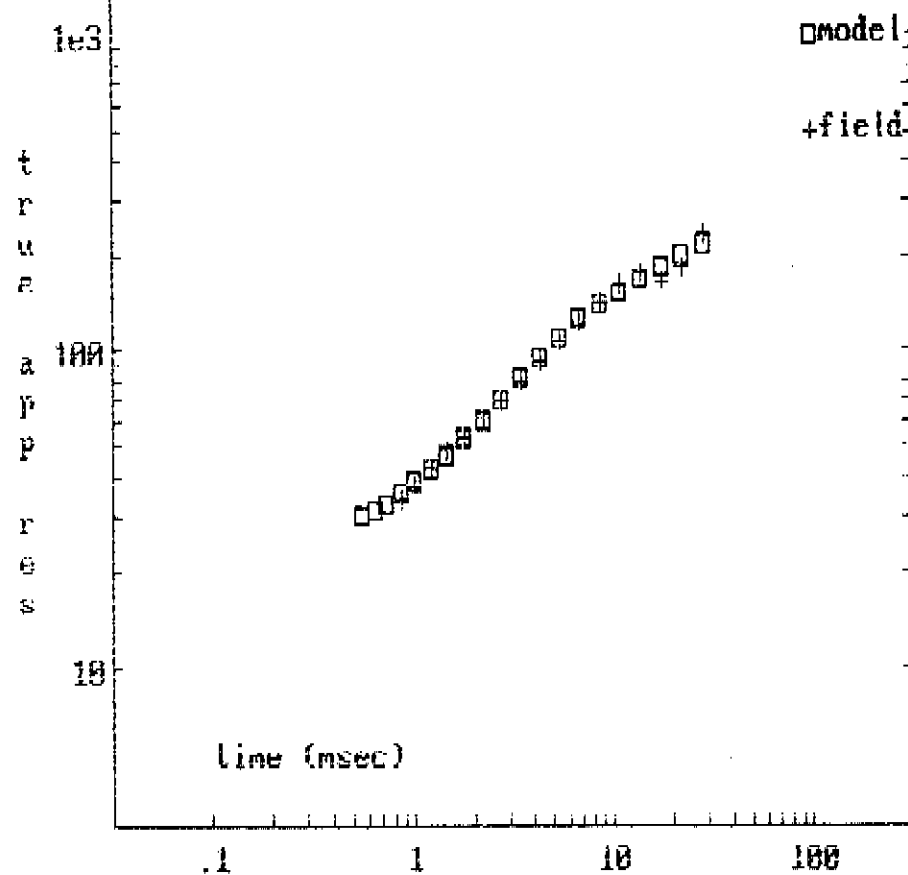
* 20.2 ohm.m	* 47.0 m.
(93.6 ohm.m)	72.8 m.
1218 ohm.m	* 120 m.

* 20.2
(93.6)
1218

STD ERR= 1.3% : S= 3 S

E= 1%
S= 3S

Sounding 140106 : Ver c



SOUNDING: 140106 ; Vers c
 Y140/106 6.25 Hz loop connected

<u>* 31.7 ohm.m</u>	<u>* 110 m</u>	* 110 m
---------------------	----------------	---------

(5346 ohm.m) * 291 m

<u>28.4 ohm.m</u>	<u>91.8 m</u>	* 1001 m
(819 ohm.m)		1093 m

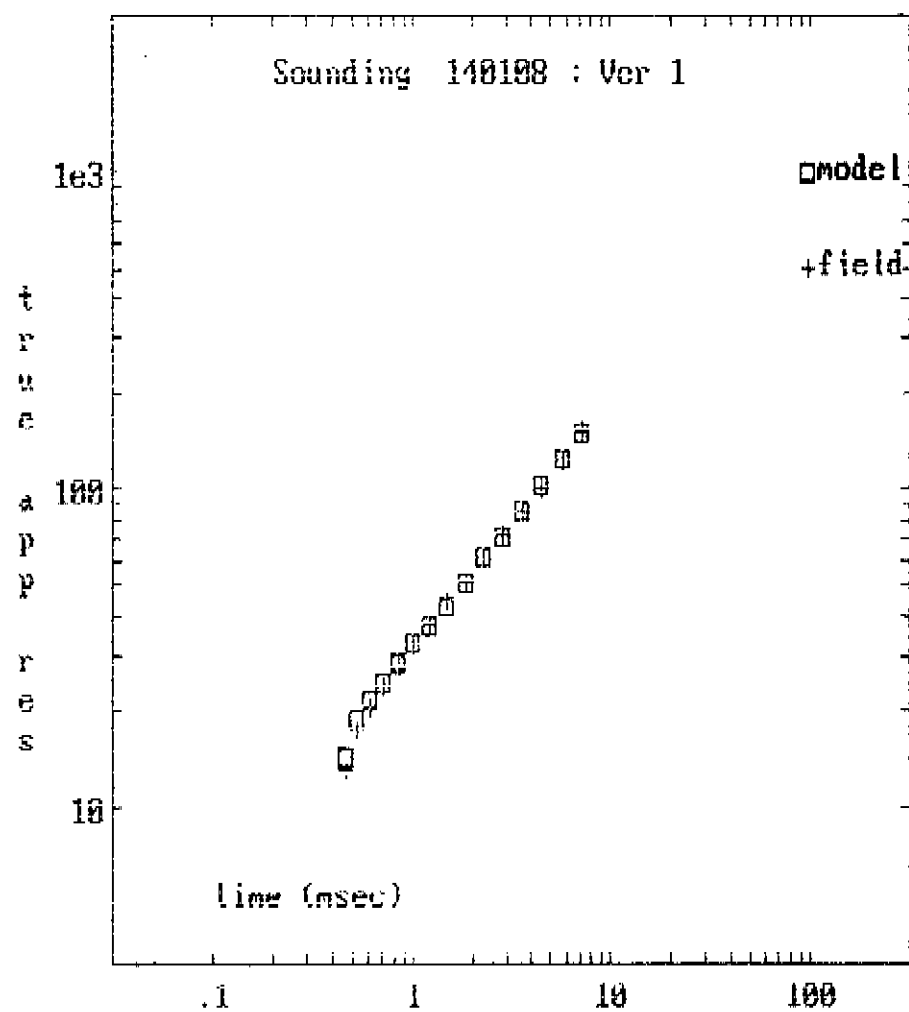
STD ERR= 7.3% ; S= 7 S

140106A
* 31.7

(5346)

28.4
 (819)

E= 7%
 S= 75



SOUNDING: 140108 : Vers 1
Y140/108 25 Hz

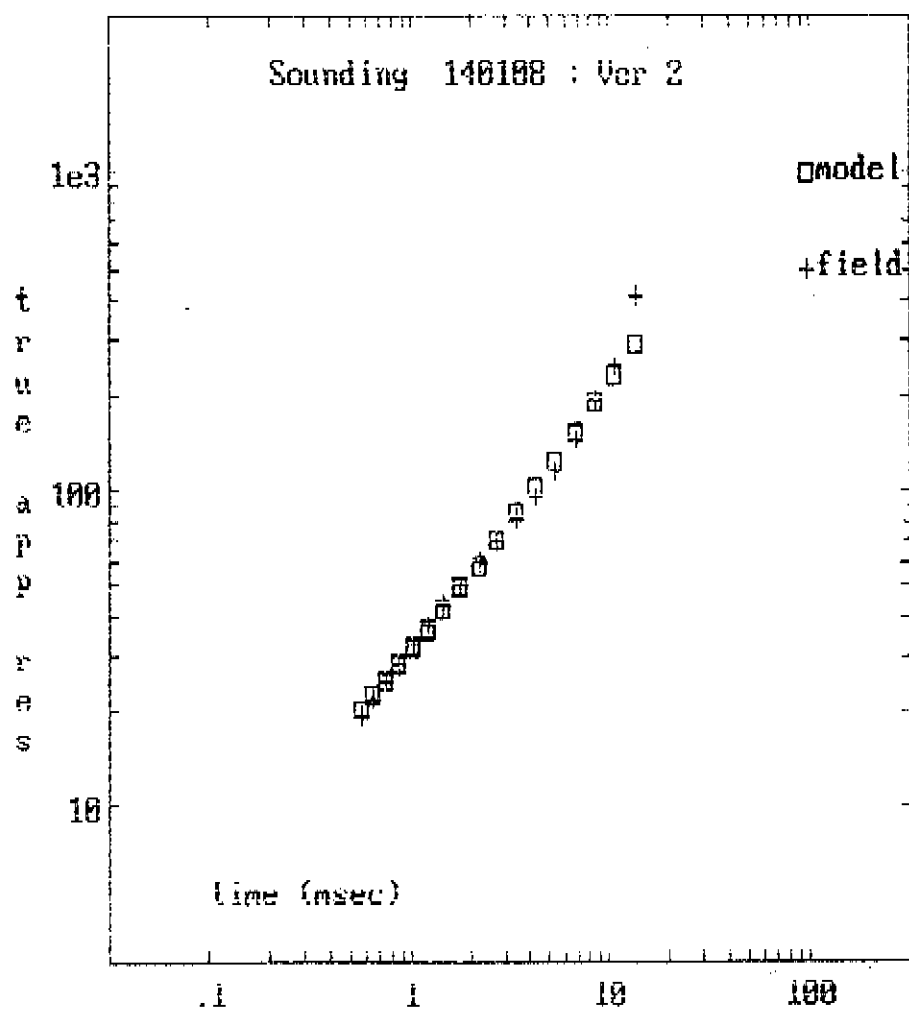
* 17.8 ohm m	* 53.5 m
* 943 ohm.m	* 53.5 m.

STD ERR= 3.2% : S= 3 S

140108A

* 17.8
* 943

E= 3%
S= 35



SOUNDING: 140108 : Vers 2
Y140/108 6.25 Hz

* 18.7 ohm.m	* 59.1 m.
5916 ohm.m	

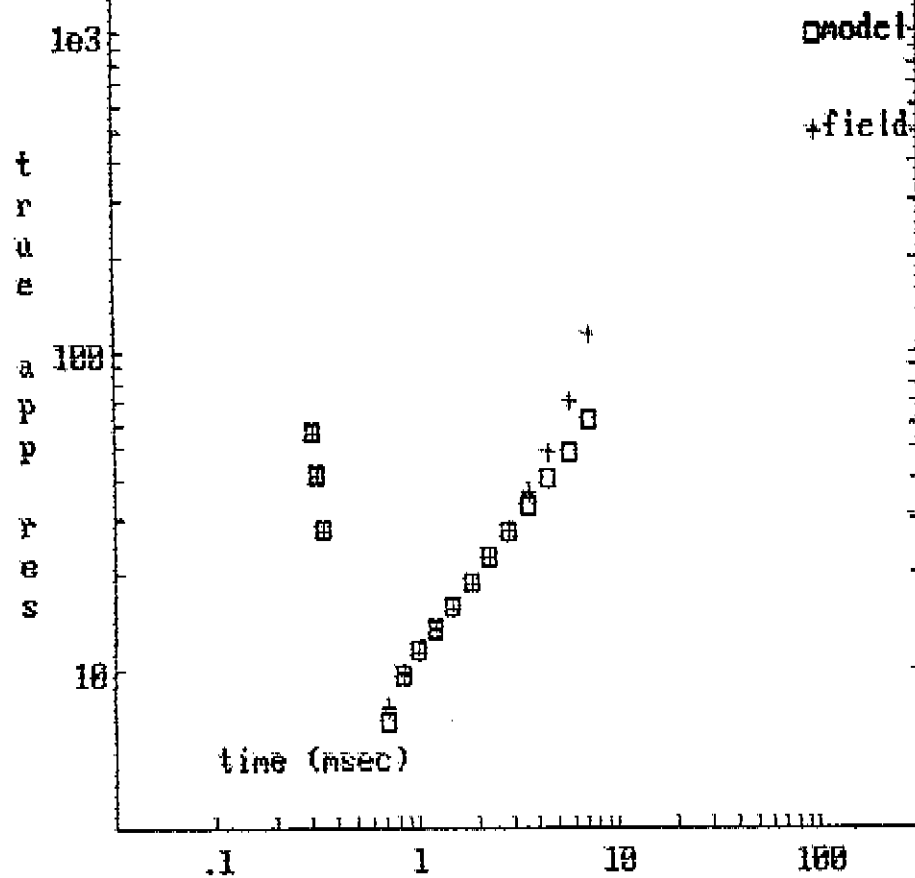
STD ERR- 5.7% : S= 3 S

140108A

* 18.7
5916

E= 6%
S= 35

Sounding 140110 : Ver 1



SOUNDING: 140110 : Vers 1
Y140/110 25 Hz

~~(70.8 ohm.m)~~ ~~# 17.6 m~~ ~~25.7 m~~
~~# 1.5 ohm.m~~ ~~# 1.5 m~~
(718 ohm.m)

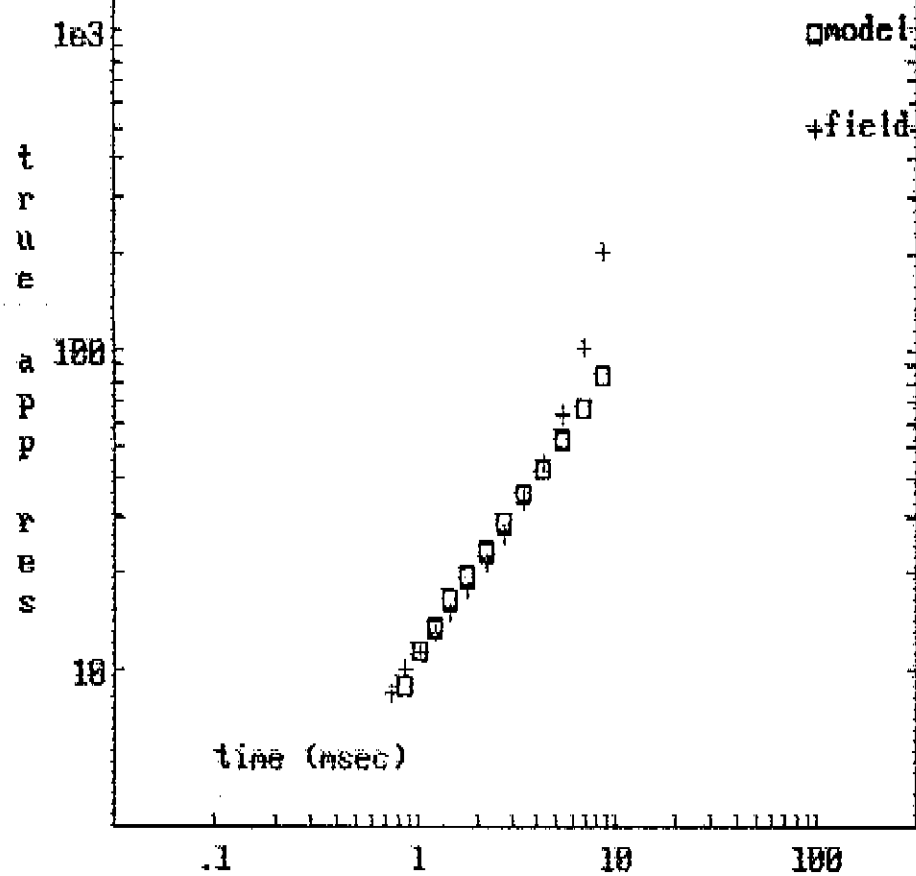
STD ERR= 1.8% : S= S S

140110A

~~(70.8)~~
~~# 1.5~~
(718)

E= 2%
S= SS

Sounding 140110 : Ver 2



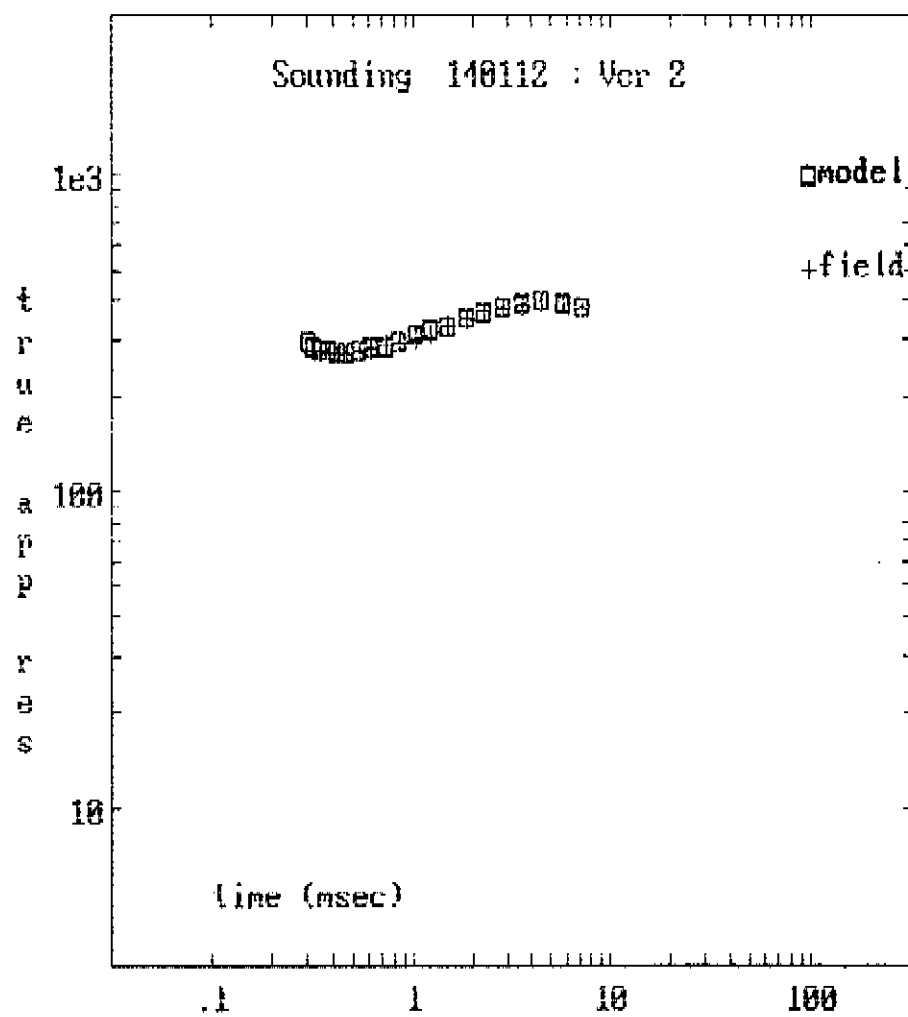
SOUNDING: 140110 : VerB 2
Y140/110 6.25 Hz

* 5.1 ohm.m * 23.8 m 23.8 m.
2854 ohm.m

STD ERR=11.5% : S= 5 S

140110A
* 5.1
2854

E=11%
S= 5S



SOUNDING: 140112 : Vers 2
Y140/112 25 Hz

(704 ohm.m)	80.4 m	60.4 m.
* 188 ohm.m	132 m.	* 132 m.

* 471 ohm.m * 894 m.

	* 1087 m.
120 ohm.m	

STD ERR= 1.1% : S= 3 5

140112A

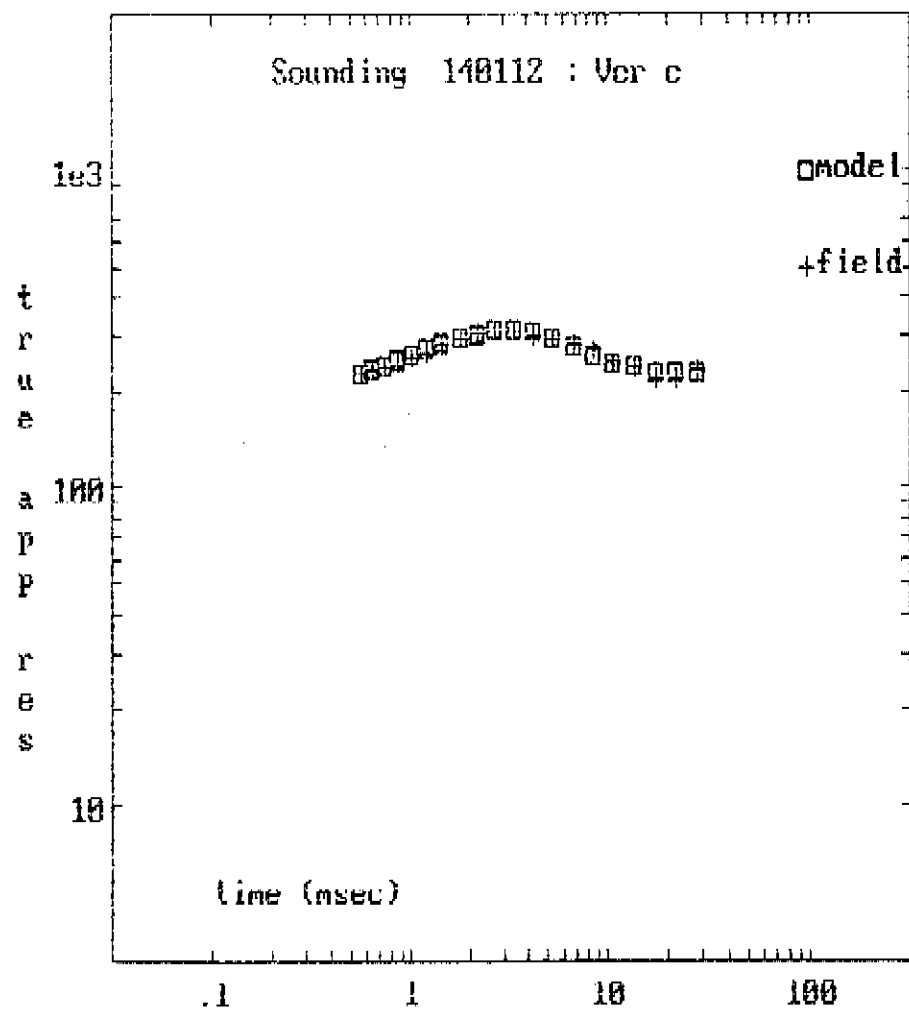
(704 ohm.m)
* 188

* 471

120

E= 1%

S= 35



SOUNDING: 140112 : Vers c
Y140/112 6.25 Hz loop connected

115 ohm.m 48.9 m 48.9 m.

* 368 ohm.m * 1064 m.

.....X 1113 m.

86.4 ohm.m 382 m.

-----* 1495 m.
377 ohm.m

STD ERR= 3.6% : S= 8 8

140112A

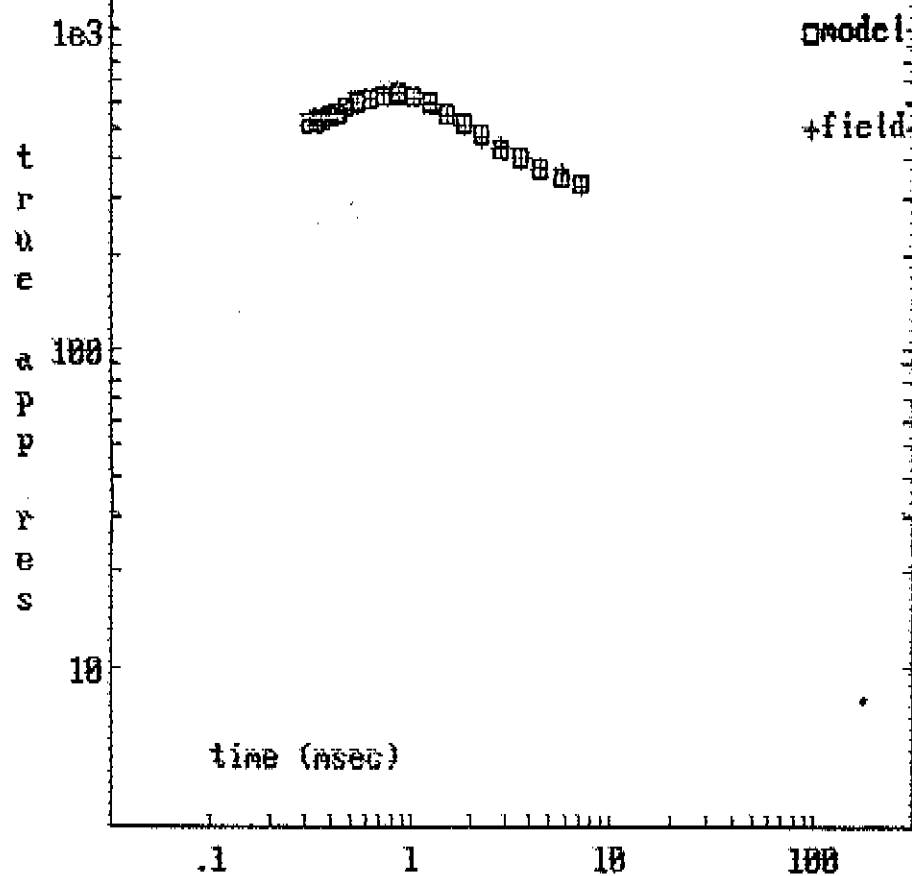
* 368

86.4

377

E= 4%
S= 85

Sounding 140114 : Ver 2



SOUNDING: 140114 : Vers 2
Y140/114 25 Hz

* 501 ohm.m	202 m.
----- 202 m.	
* 786 ohm.m	* 447 m.

* 198 ohm.m	* 548 m.

STD ERR= 2.4% : S= 1 S

140114A

* 501

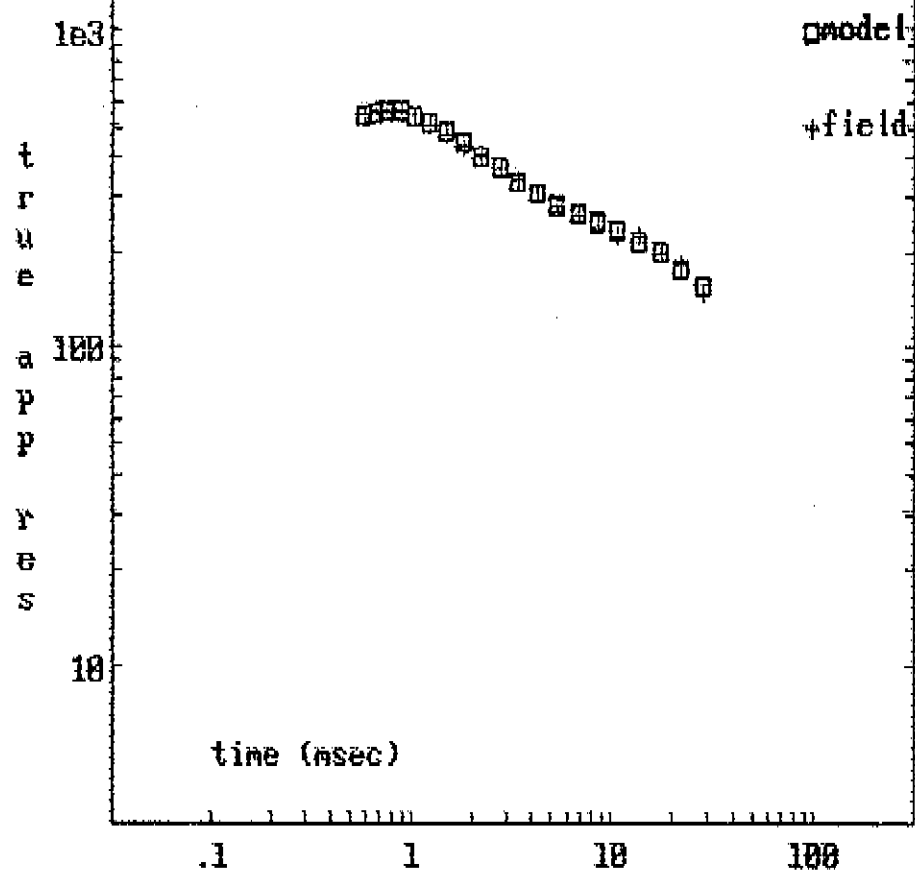
* 786

* 198

E= 2%

S= 15

Sounding 140114 : Ver c



SOUNDING: 140114 : Vers c
Y140/114 6.25 Hz loop corrected

~~* 198 ohm.m (21.9 m.)~~

* 599 ohm.m * 599 m.

_____ * 618 m.

* 107 ohm.m * 961 m.

_____ * 1579 m.
* 27.9 ohm.m

STD ERR= 4.1% : S= 10 S

140114A

~~* 198~~

* 599

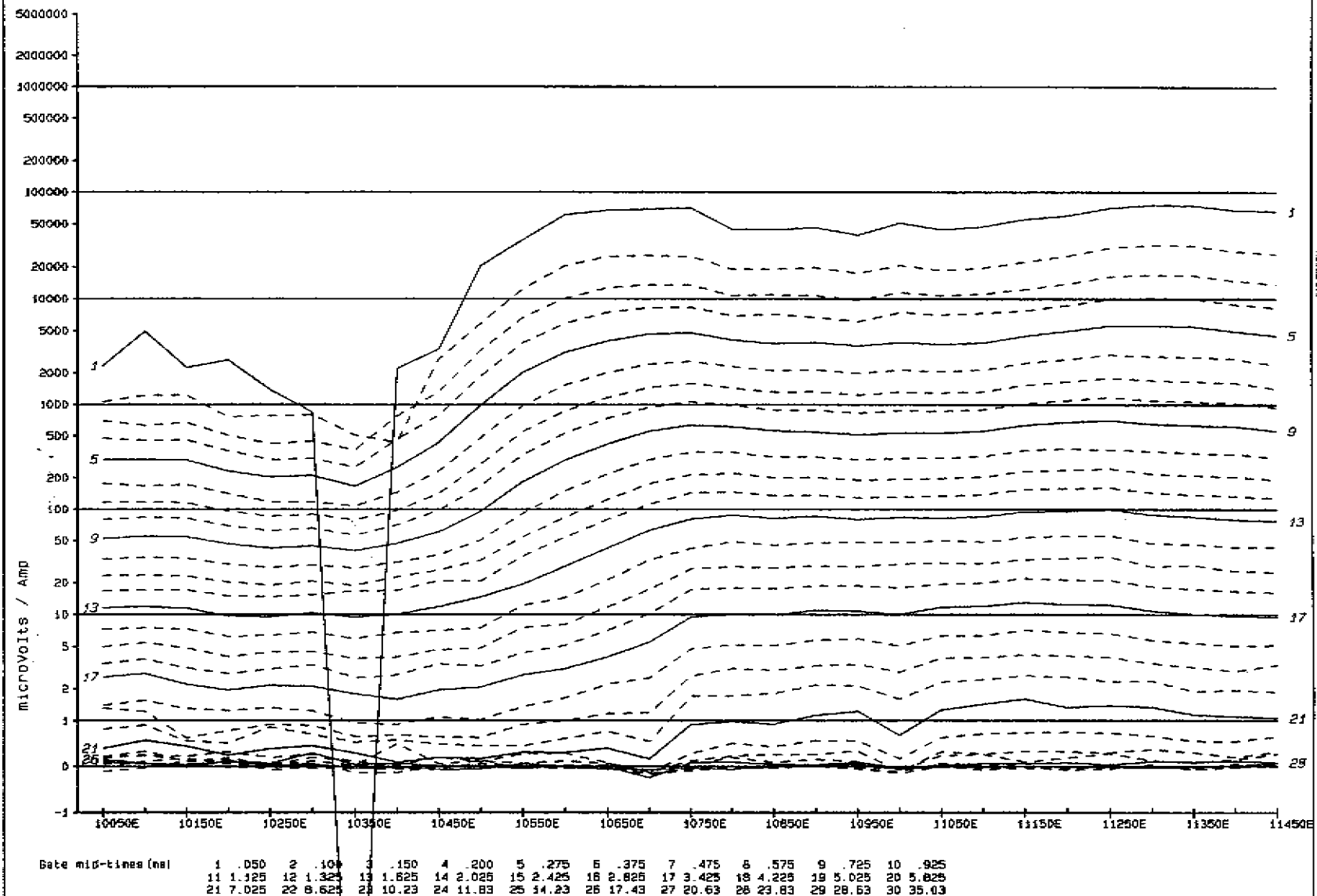
* 107

* 27.9

E= 4%

S= 105

SIROTEM SOUNDINGS



CURRENT : 9.5 Amps

RAMP : .252 ms

DELAY : .250 ms

LOGARITHMIC PROFILES
100m X 100m TRANSMITTER LOOP

COMPOSITE TIME SERIES
SIROTEM MARK 3 RECEIVER

TESLA-10 PTY. LTD.

BHP MINERALS
ANOMALY MY1
CENTRAL LOOP SIROTEM
VERTICAL COMPONENT

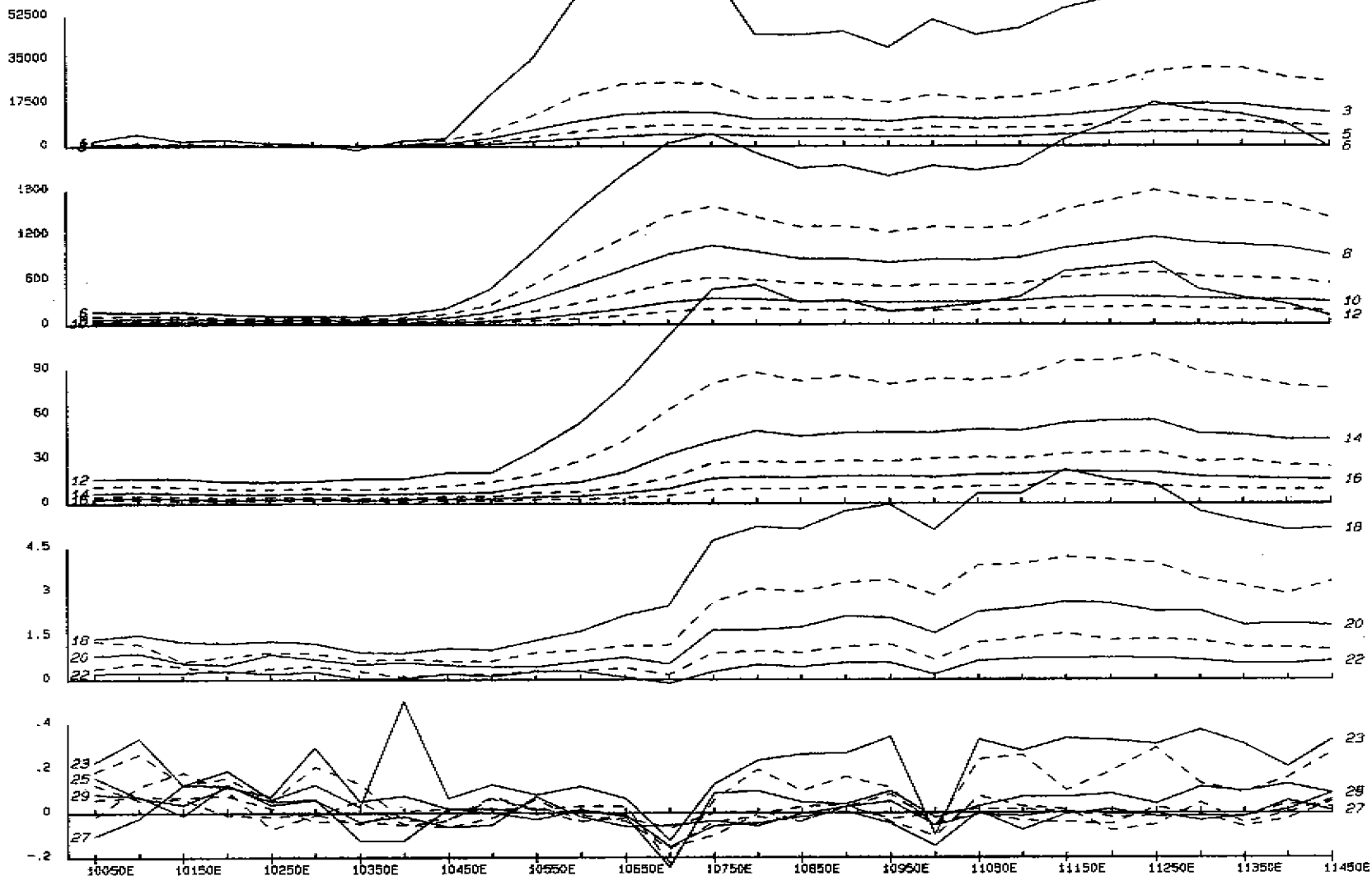
LINE 9650N

Scale 1 : 5000

10-09-93

figure

MICROVOLTS / AMP



Date mid-times (ms)	1 .050	2 .100	3 .150	4 .200	5 .275	6 .375	7 .475	8 .575	9 .725	10 .925
	11 1.125	12 1.325	13 1.625	14 2.025	15 2.425	16 2.825	17 3.425	18 4.225	19 5.025	20 5.825
	21 7.025	22 8.625	23 10.23	24 11.83	25 14.23	26 17.43	27 20.63	28 23.83	29 28.63	30 35.03

CURRENT : 9.5 Amps GROUPED LINEAR PROFILES
 100m X 100m TRANSMITTER LOOP

RAMP : .252 ms

DELAY : .250 ms COMPOSITE TIME SERIES
 SIROTEM MARK 3 RECEIVER

TESLA-10 PTY. LTD.

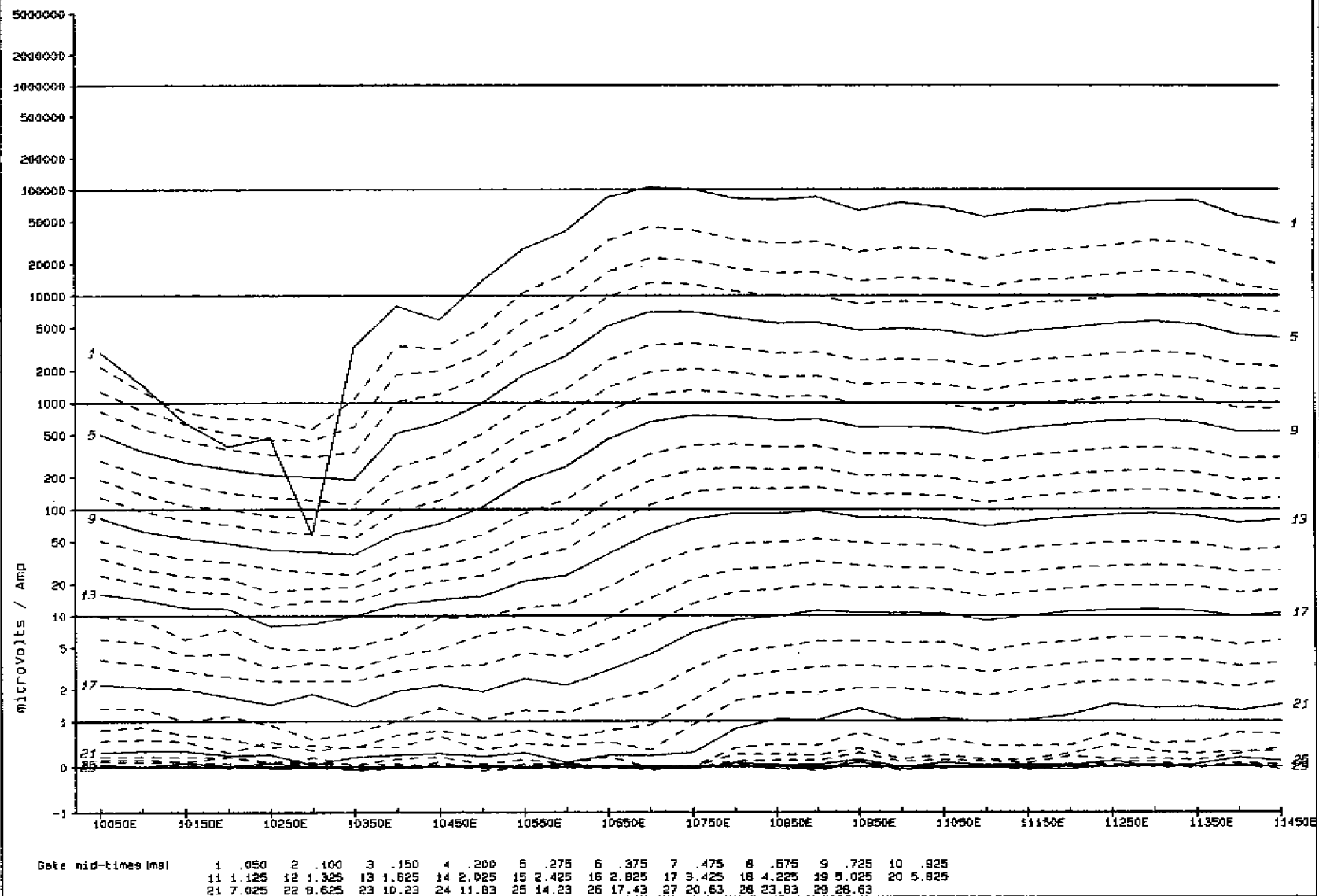
Scale 1 : 5000

BHP MINERALS
 ANOMALY MY1
 CENTRAL LOOP SIROTEM
 VERTICAL COMPONENT

LINE 9650N

10-09-93

figure



CURRENT : 9.7 Amps

RAMP : .25 ms

DELAY : .25 ms

LOGARITHMIC PROFILES
100m X 100m TRANSMITTER LOOP

COMPOSITE TIME SERIES
SIROTEM MARK 3 RECEIVER

TESLA-10 PTY. LTD.

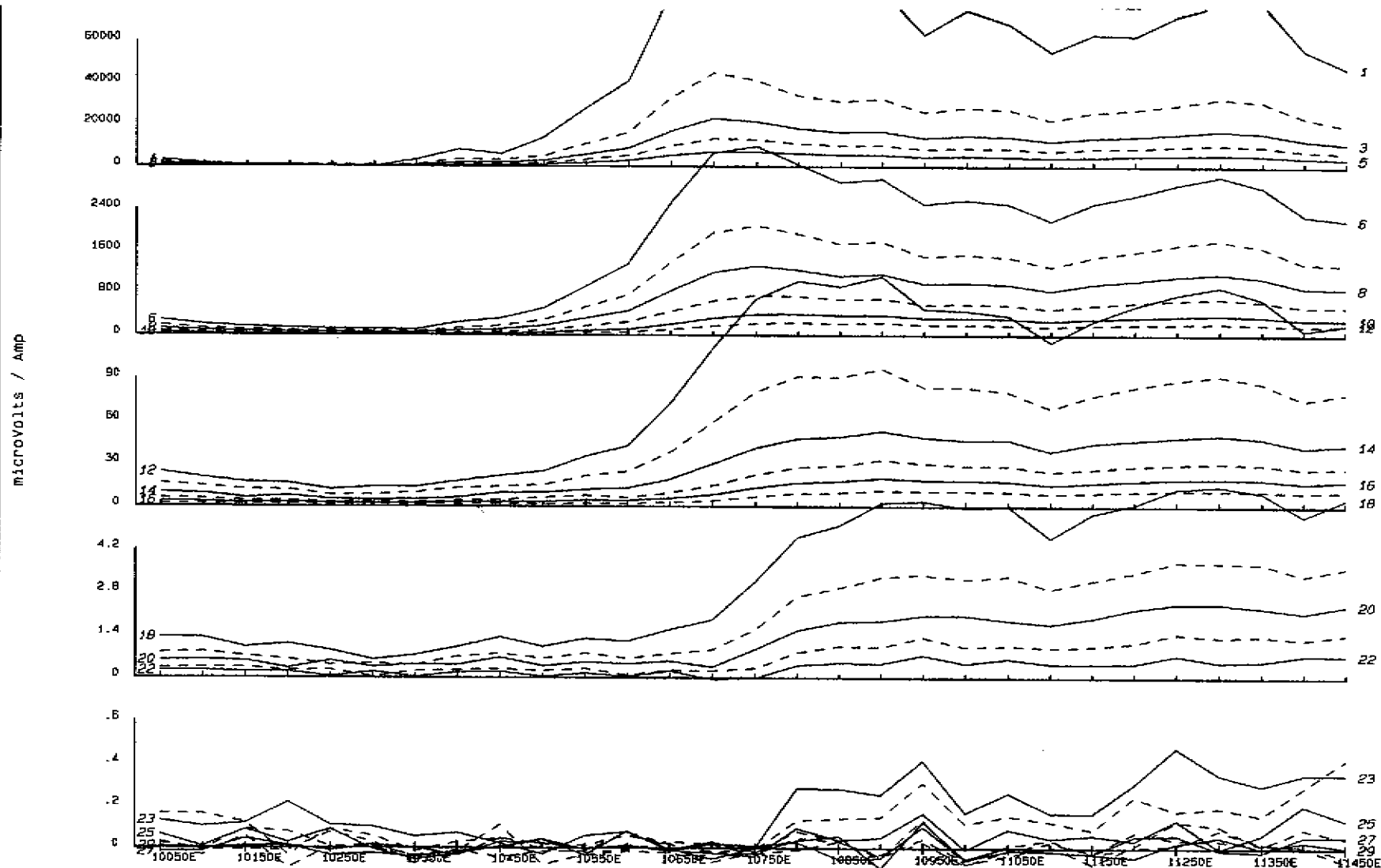
Scale 1 : 5000

BHP MINERALS
ANOMALY MY1
CENTRAL LOOP SIROTEM
VERTICAL COMPONENT

LINE 10050N

10-09-93

figure



Gate mid-times (ms)	1	.050	2	.100	3	.150	4	.200	5	.275	6	.375	7	.475	8	.575	9	.725	10	.925
	11	1.125	12	1.325	13	1.625	14	2.025	15	2.425	16	2.825	17	3.425	18	4.225	19	5.025	20	5.825
	21	7.025	22	8.625	23	10.23	24	11.83	25	14.23	26	17.43	27	20.63	28	23.83	29	28.63	30	35.03

CURRENT : 9.7 Amps GROUPED LINEAR PROFILES
 RAMP : .25 ms 100m X 100m TRANSMITTER LOOP
 DELAY : .25 ms COMPOSITE TIME SERIES
 SIROTEM MARK 3 RECEIVER

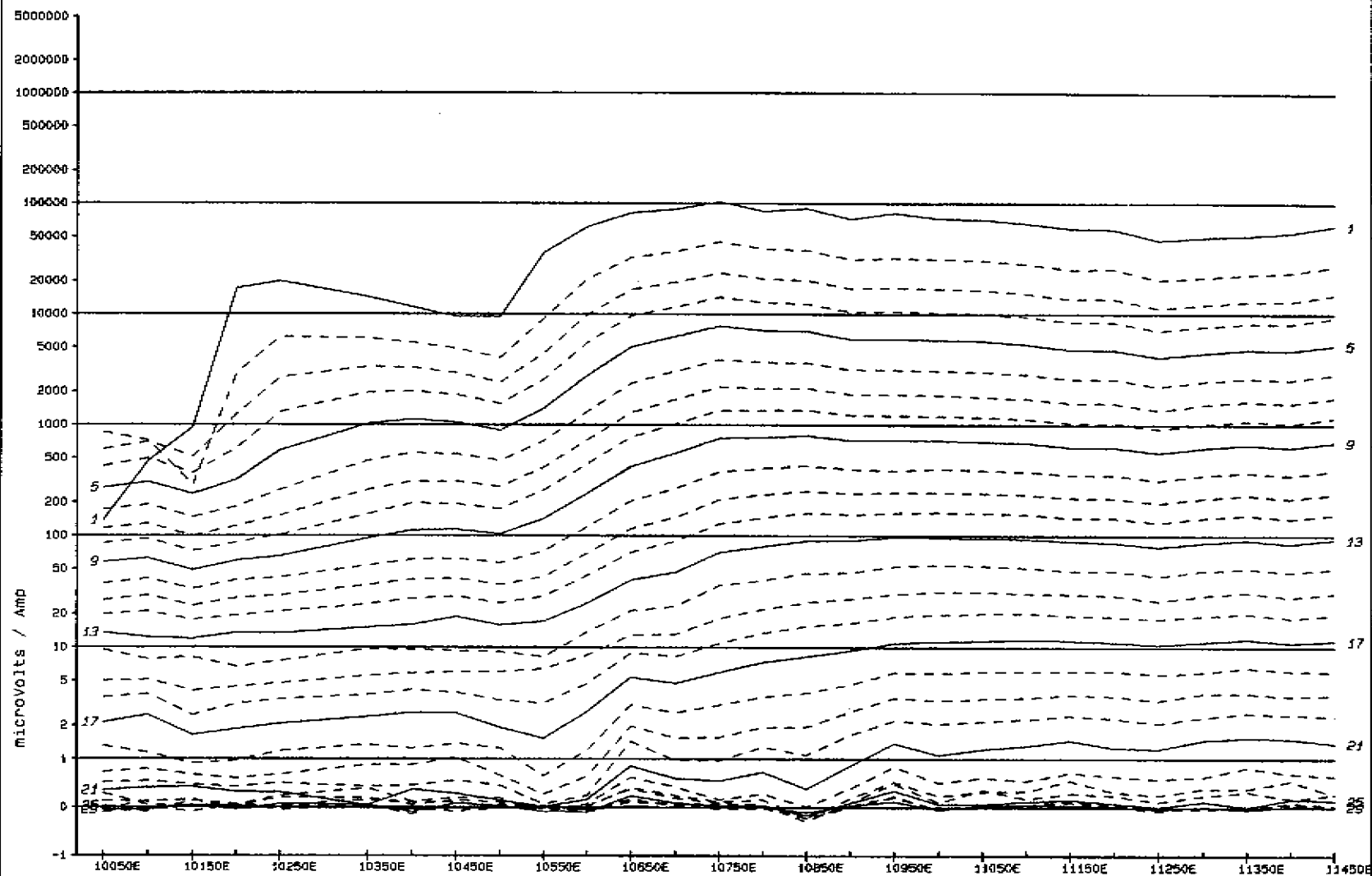
TESLA-10 PTY. LTD.

Scale 1 : 5000

BHP MINERALS
 ANOMALY MY1
 CENTRAL LOOP SIROTEM
 VERTICAL COMPONENT
 LINE 10050N

10-09-93

figure



Gate mid-times (ms)	1	2	3	4	5	6	7	8	9	10
	.050	.100	.150	.200	.275	.375	.475	.575	.725	.925
	11	1.125	12	1.325	13	1.625	14	2.025	15	2.425
	16	2.825	17	3.425	18	4.225	19	5.025	20	5.825
	21	7.025	22	8.625	23	10.23	24	11.83	25	14.23
	26	17.43	27	20.63	28	23.83	29	28.63		

CURRENT : 9.4 Amps

RAMP : .242 ms

DELAY : .250 ms

LOGARITHMIC PROFILES
100m X 100m TRANSMITTER LOOP

COMPOSITE TIME SERIES
SIROTEM MARK 3 RECEIVER

TESLA-10 PTY. LTD.

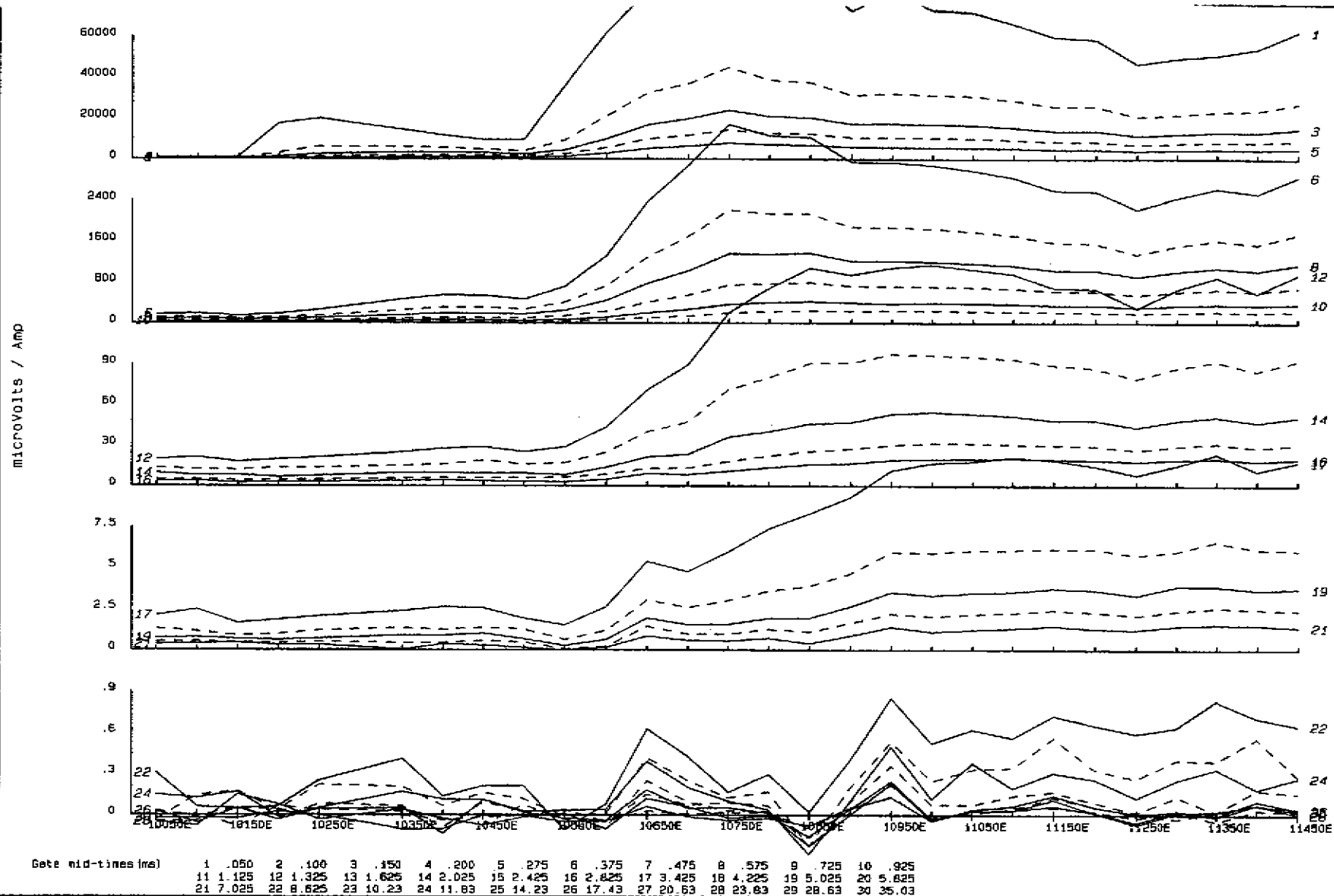
Scale 1 : 5000

BHP MINERALS
ANOMALY MY1
CENTRAL LOOP SIROTEM
VERTICAL COMPONENT

LINE 10450N

10-11-93

figure



CURRENT : 9.4 Amps
 RAMP : .242 ms
 DELAY : .250 ms

GROUPED LINEAR PROFILES
 100m X 100m TRANSMITTER LOOP

COMPOSITE TIME SERIES
 SIROTEM MARK 3 RECEIVER

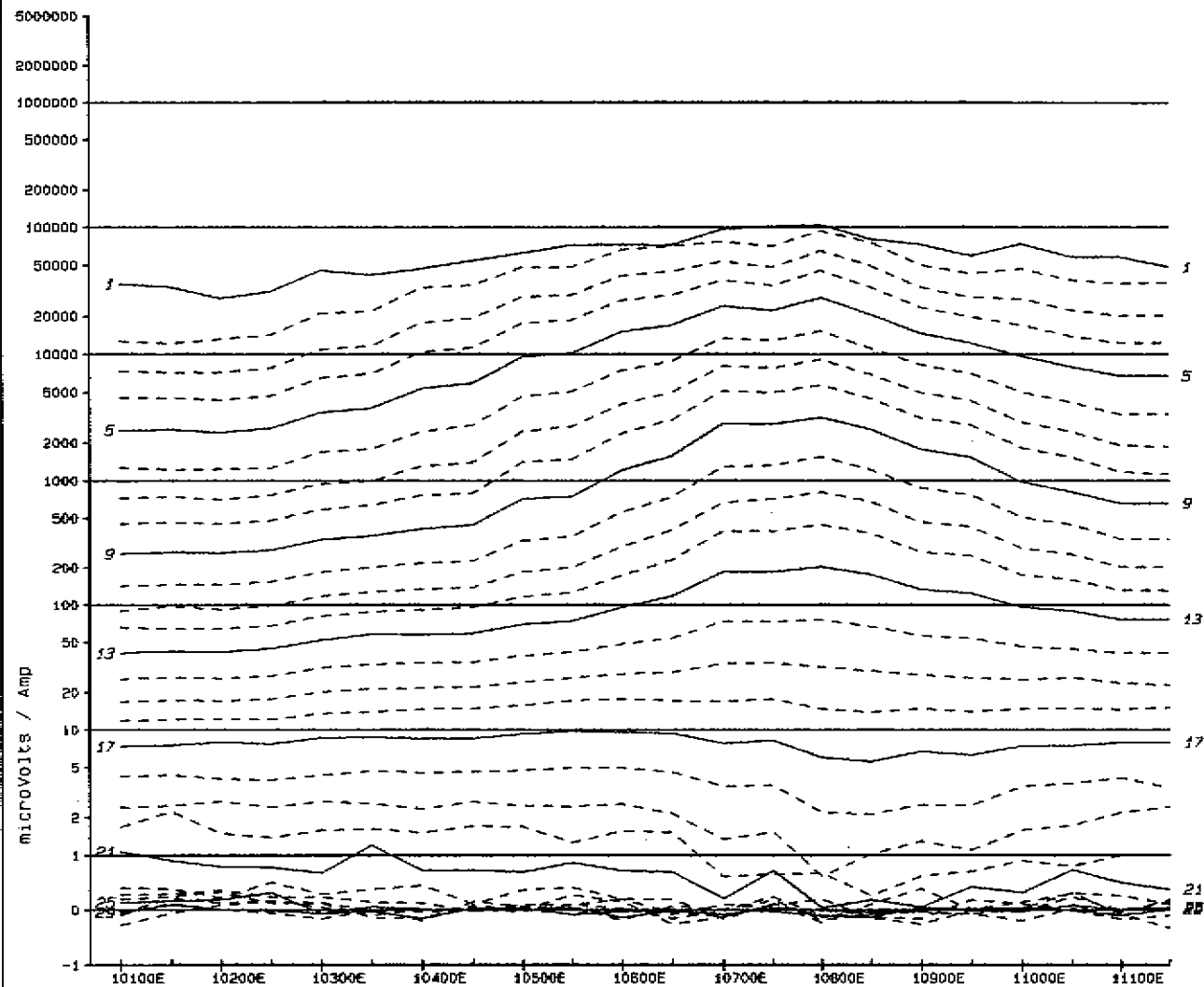
TESLA-10 PTY. LTD.

Scale 1 : 5000

BHP MINERALS
 ANOMALY MY1
 CENTRAL LOOP SIROTEM
 VERTICAL COMPONENT
 LINE 10450N

10-11-93

figure



Gate mid-times (ms)	1	.050	2	.100	3	.150	4	.200	5	.275	6	.375	7	.475	8	.575	9	.725	10	.925
	11	1.125	12	1.325	13	1.625	14	2.025	15	2.425	16	2.825	17	3.425	18	4.225	19	5.025	20	5.825
	21	7.025	22	8.825	23	10.23	24	11.83	25	14.23	26	17.43	27	20.63	28	23.83	29	28.63		

CURRENT : 4.3 Amps LOGARITHMIC PROFILES
200m X 200m TRANSMITTER LOOP

RAMP : .255 ms

DELAY : .245 ms COMPOSITE TIME SERIES
SIROTEM MARK 3 RECEIVER

TESLA-10 PTY. LTD.

Scale 1 : 5000

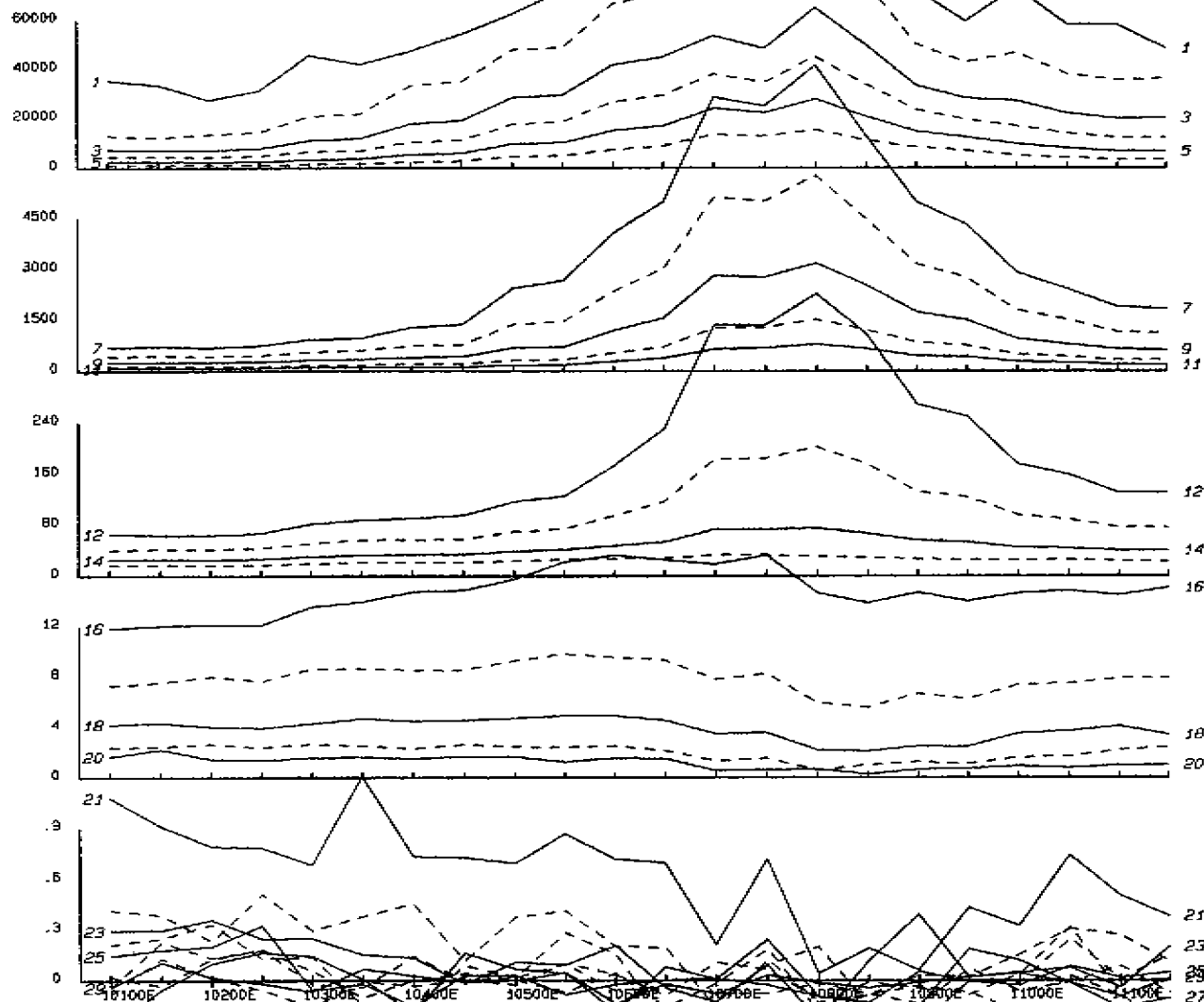
BHP MINERALS
ANOMALY MY5
CENTRAL LOOP SIROTEM
VERTICAL COMPONENT

LINE 9700N

09-26-93

figure

microVolts / Amp



Gate mid-times (ms)

1	.050	2	.100	3	.150	4	.200	5	.275	6	.375	7	.475	8	.575	9	.725	10	.925
11	1.125	12	1.325	13	1.625	14	2.025	15	2.425	16	2.825	17	3.425	18	4.225	19	5.025	20	5.825
21	7.025	22	8.625	23	10.23	24	11.83	25	14.23	26	17.43	27	20.63	28	23.83	29	28.63	30	35.03

CURRENT : 4.3 Amps

RAMP : .255 ms

DELAY : .245 ms

GROUPED LINEAR PROFILES
200m X 200m TRANSMITTER LOOP

COMPOSITE TIME SERIES
SIROTEM MARK 3 RECEIVER

TESLA-10 PTY. LTD.

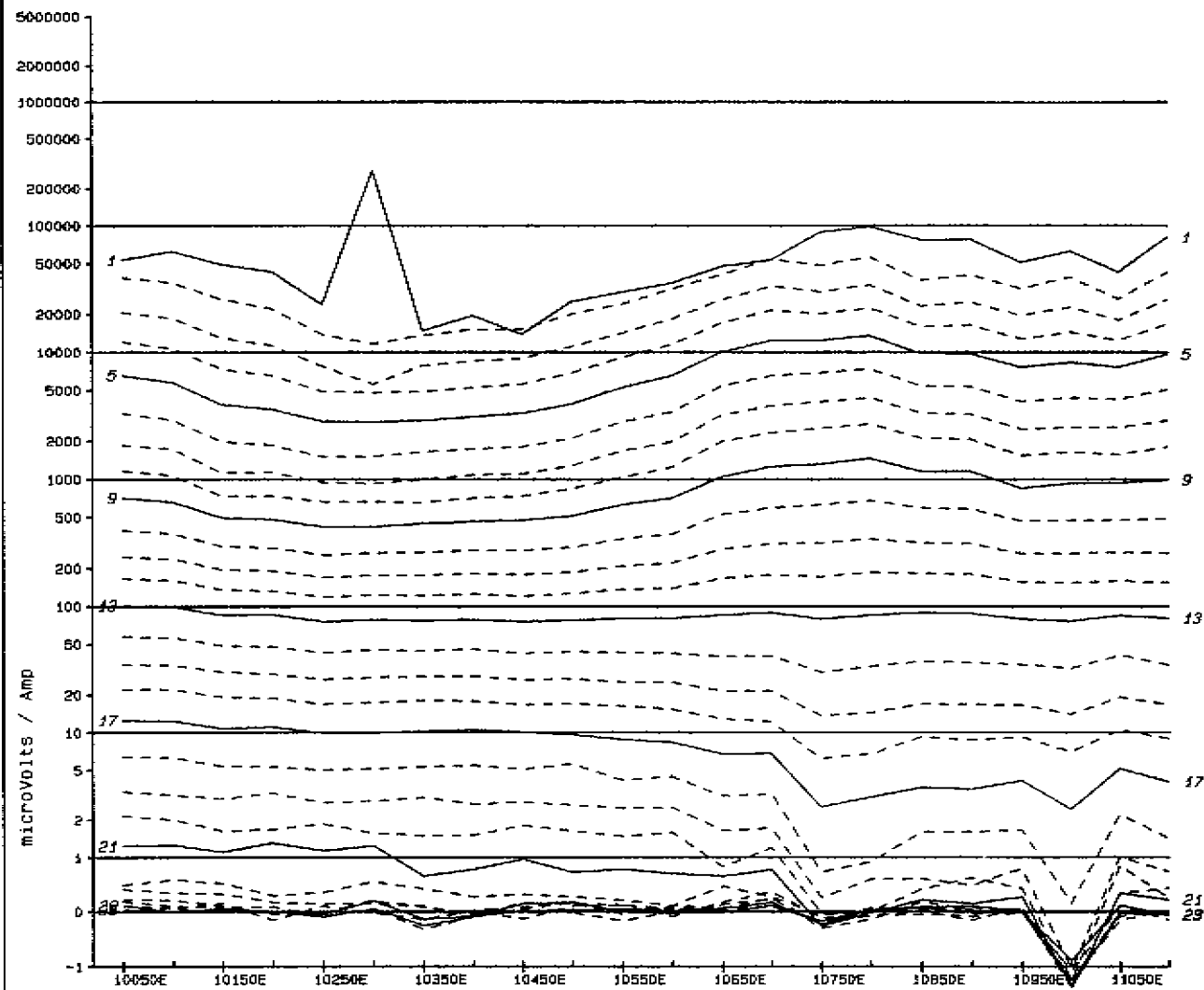
Scale 1 : 5000

BHP MINERALS
ANOMALY MY5
CENTRAL LOOP SIROTEM
VERTICAL COMPONENT

LINE 9700N

09-26-93

figure



Gate mid-times (ms)	1	2	3	4	5	6	7	8	9	10
	.050	.100	.150	.200	.275	.375	.475	.575	.725	.925
	11 1.125	12 1.325	13 1.625	14 2.025	15 2.425	16 2.825	17 3.425	18 4.225	19 5.025	20 5.825
	21 7.025	22 8.625	23 10.23	24 11.83	25 14.23	26 17.43	27 20.63	28 23.83	29 28.63	

CURRENT : 4.5 Amps
 RAMP : .261 ms
 DELAY : .245 ms

LOGARITHMIC PROFILES
 200m X 200m TRANSMITTER LOOP

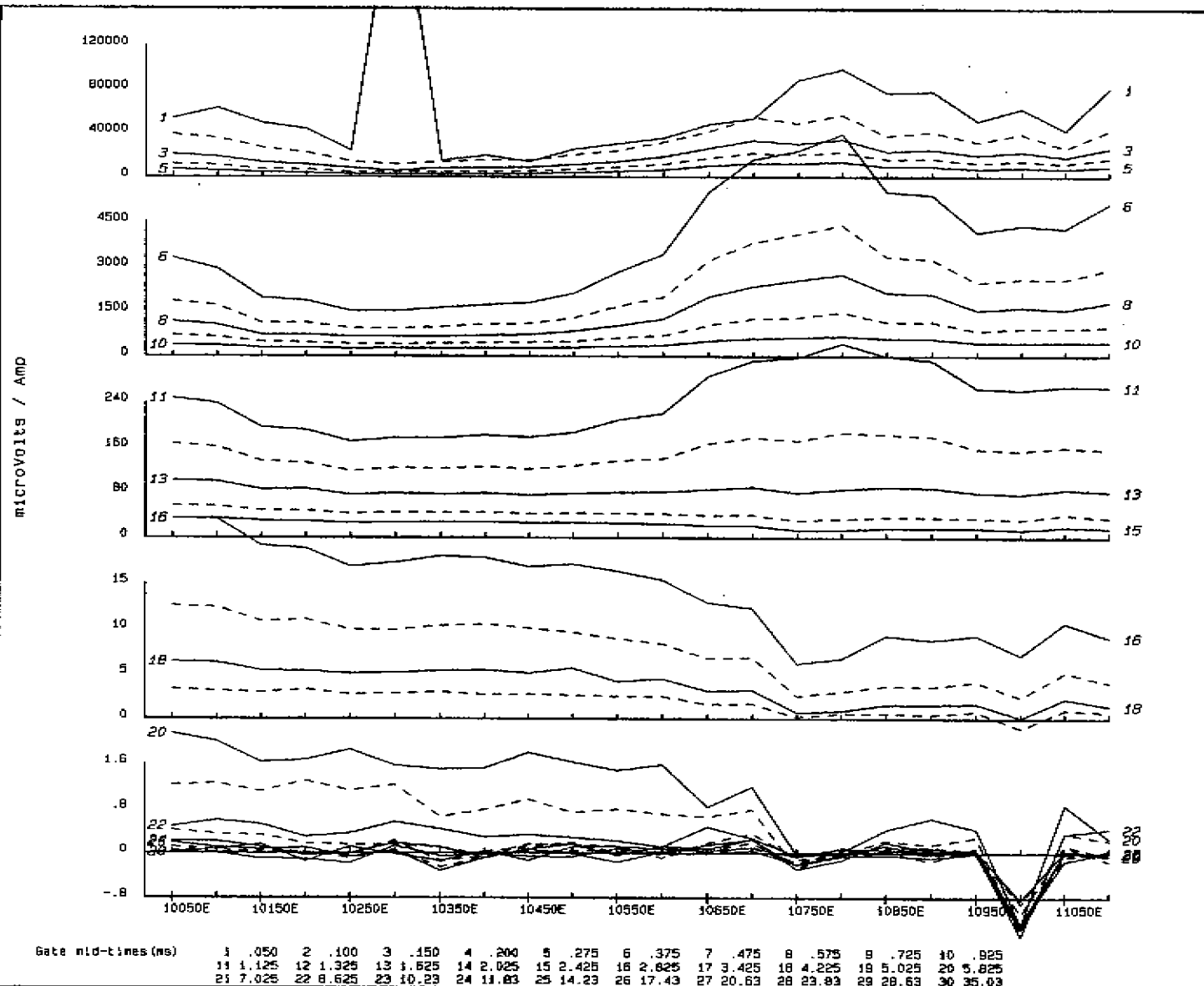
COMPOSITE TIME SERIES
 SIROTEM MARK 3 RECEIVER

TESLA-10 PTY. LTD.

Scale 1 : 5000

BHP MINERALS
 ANOMALY MYS
 CENTRAL LOOP SIROTEM
 VERTICAL COMPONENT

LINE 10100N
 09-25-93 figure



CURRENT : 4.5 Amps

RAMP : .261 ms

DELAY : .245 ms

GROUPED LINEAR PROFILES
200m X 200m TRANSMITTER LOOP

COMPOSITE TIME SERIES
SIROTEM MARK 3 RECEIVER

TESLA-10 PTY. LTD.

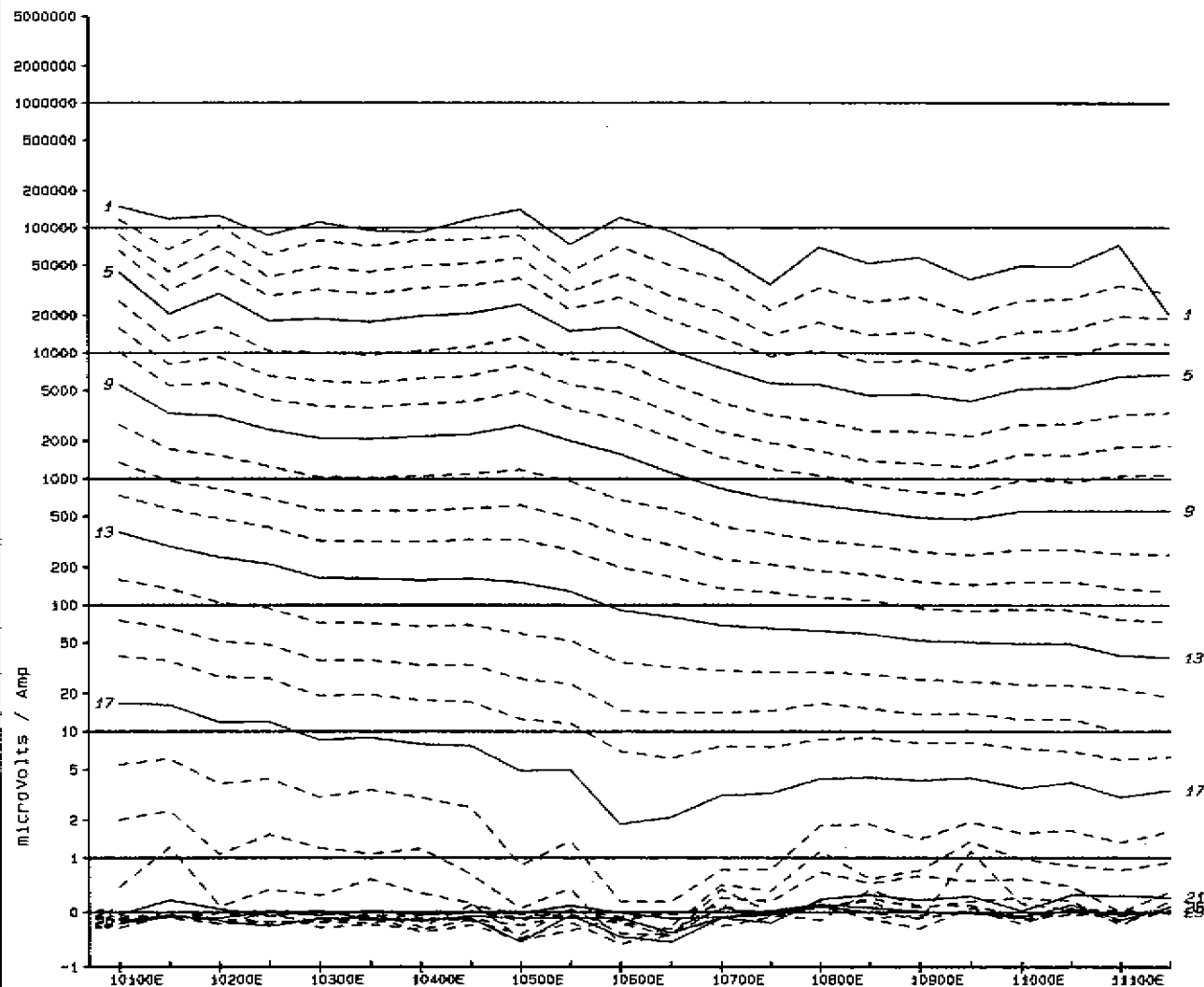
Scale 1 : 5000

BHP MINERALS
ANOMALY MY5
CENTRAL LOOP SIROTEM
VERTICAL COMPONENT

LINE 10100N

09-25-93

figure



Gate mid-times (ms)	1	2	3	4	5	6	7	8	9	10
	.050	.100	.150	.200	.275	.375	.475	.575	.725	.925
	11 1.125	12 1.325	13 1.625	14 2.025	15 2.425	16 2.825	17 3.425	18 4.225	19 5.025	20 5.825
	21 7.025	22 8.625	23 10.23	24 11.83	25 14.23	26 17.43	27 20.63	28 23.83	29 28.63	

CURRENT : 4.4 Amps

RAMP : .247 ms

DELAY : .245 ms

LOGARITHMIC PROFILES
200m X 200m TRANSMITTER LOOP

COMPOSITE TIME SERIES
SIROTEM MARK 3 RECEIVER

TESLA-10 PTY. LTD.

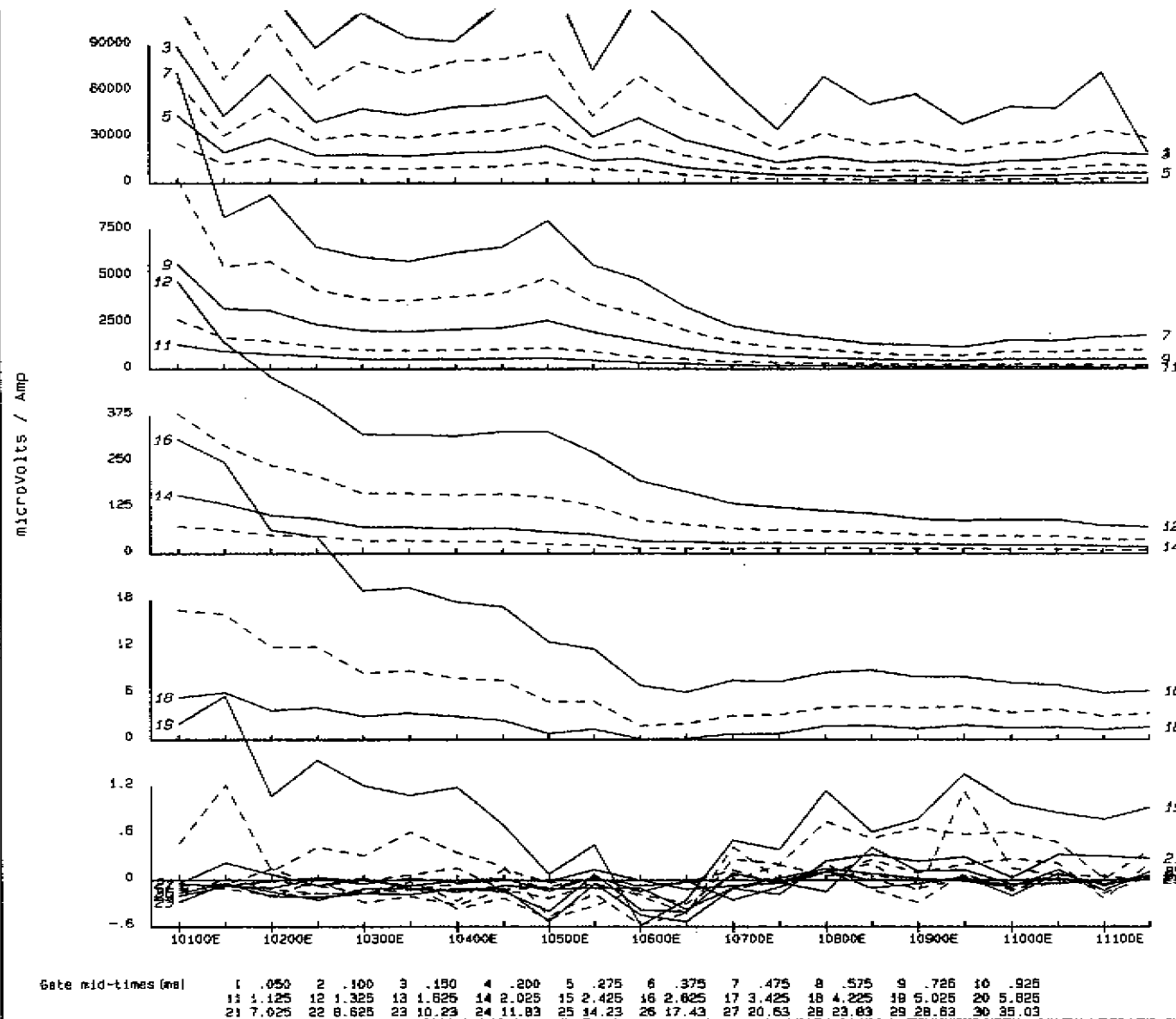
Scale 1 : 5000

BHP MINERALS
ANOMALY MYS
CENTRAL LOOP SIROTEM
VERTICAL COMPONENT

LINE 10500N

09-24-93

figure



CURRENT : 4.4 Amps

RAMP : .247 ms

DELAY : .245 ms

GROUPED LINEAR PROFILES
200m X 200m TRANSMITTER LOOP

COMPOSITE TIME SERIES
SIROTEM MARK 3 RECEIVER

TESLA-10 PTY. LTD.

Scale 1 : 5000

BHP MINERALS
ANOMALY MYS
CENTRAL LOOP SIROTEM
VERTICAL COMPONENT

LINE 10500N

09-24-93

figure

SOUNDING: loop1 : Vers 1
 Site MY8 : 9700N 10100E.

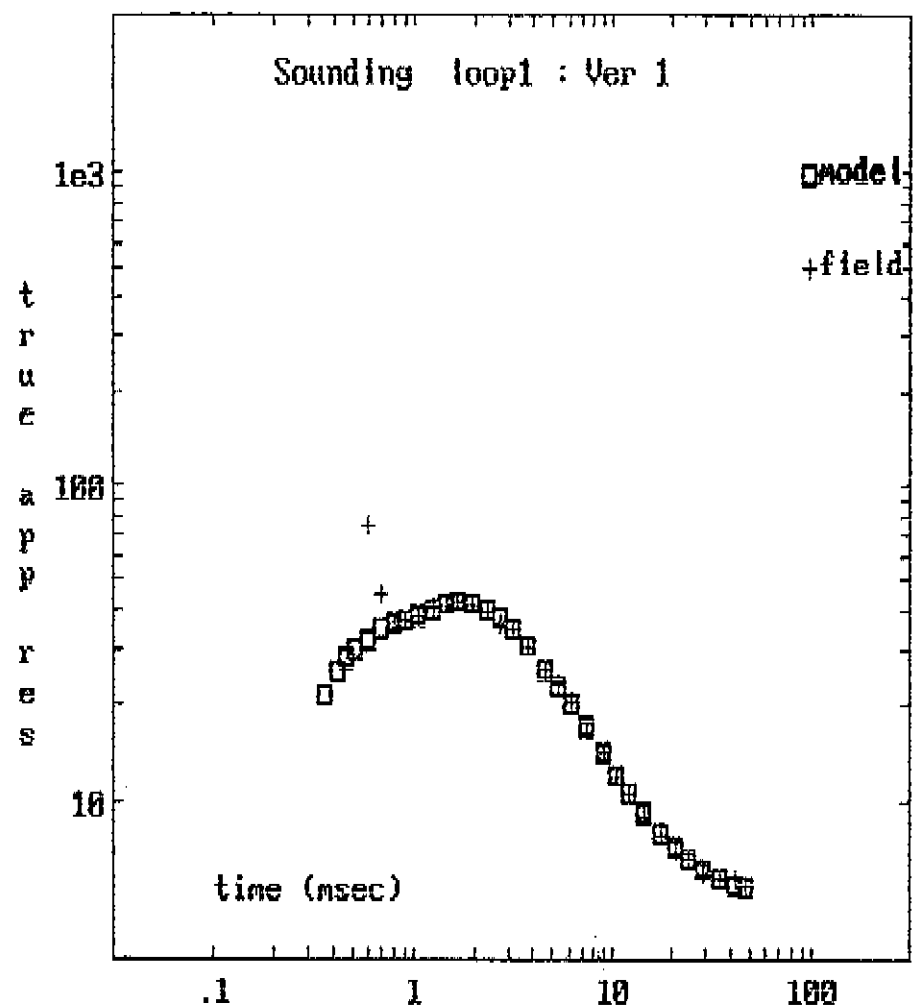
* 26.8 ohm.m	60.7 m.	60.7 m.
234 ohm.m	56.2 m.	117 m.
19.2 ohm.m	* 122 m.	
	* 239 m.	
* 1.9 ohm.m	* 134 m.	
	* 373 m.	
(47.8 ohm.m)		

1000 LA1

* 26.8
234
19.2
* 1.9
(47.8)

STD ERR= 2.1% : S=112 S

E= 2%
 S=1125



SOUNDING: loop2 : Vers 1
 Site MY8 : 9700N, 11000E.

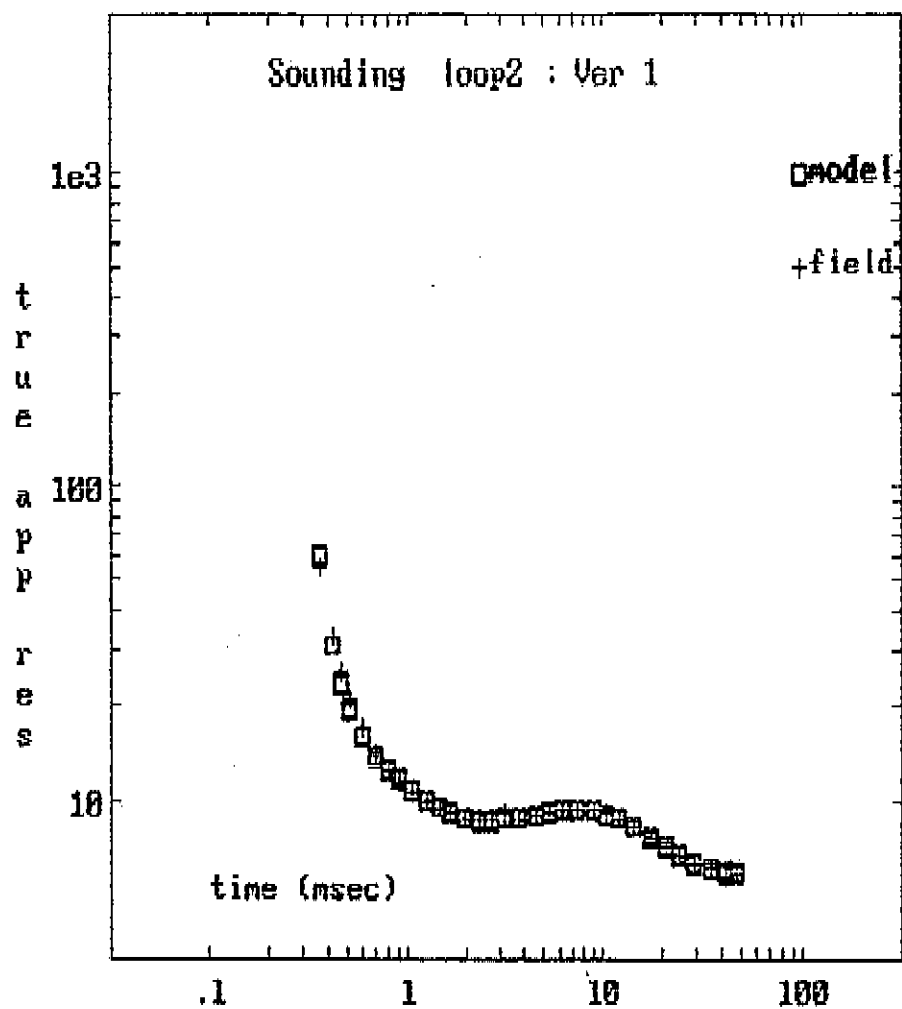
1000241

(250 ohm.m)	* 22.1 m.	22.1 m.
* 8.4 ohm.m	* 128 m.	
		* 150 m.
(204 ohm.m)	* 80.6 m.	
		* 240 m.
* 2.3 ohm.m	* 205 m.	
		* 448 m.
(19.5 ohm.m)		

(250)
* 8.4
(204)
* 2.3
(19.5)

STD ERR= 1.4% : S=109 S

E= 1%
 S=109S



SOUNDING: loop3 : Vers 1
 Site MY8 : 8700N , 11800E.

10003A1

~~18.8 ohm.m~~ (~~7.2 m.~~ 7.2 m.)

~~18.8~~

* 64.3 ohm.m * 124 m.

* 64.3

131 m.

* 22.3 ohm.m * 154 m.

* 22.3

~~1.37 ohm.m~~ ~~5.3 m.~~ 285 m.

~~1.37~~

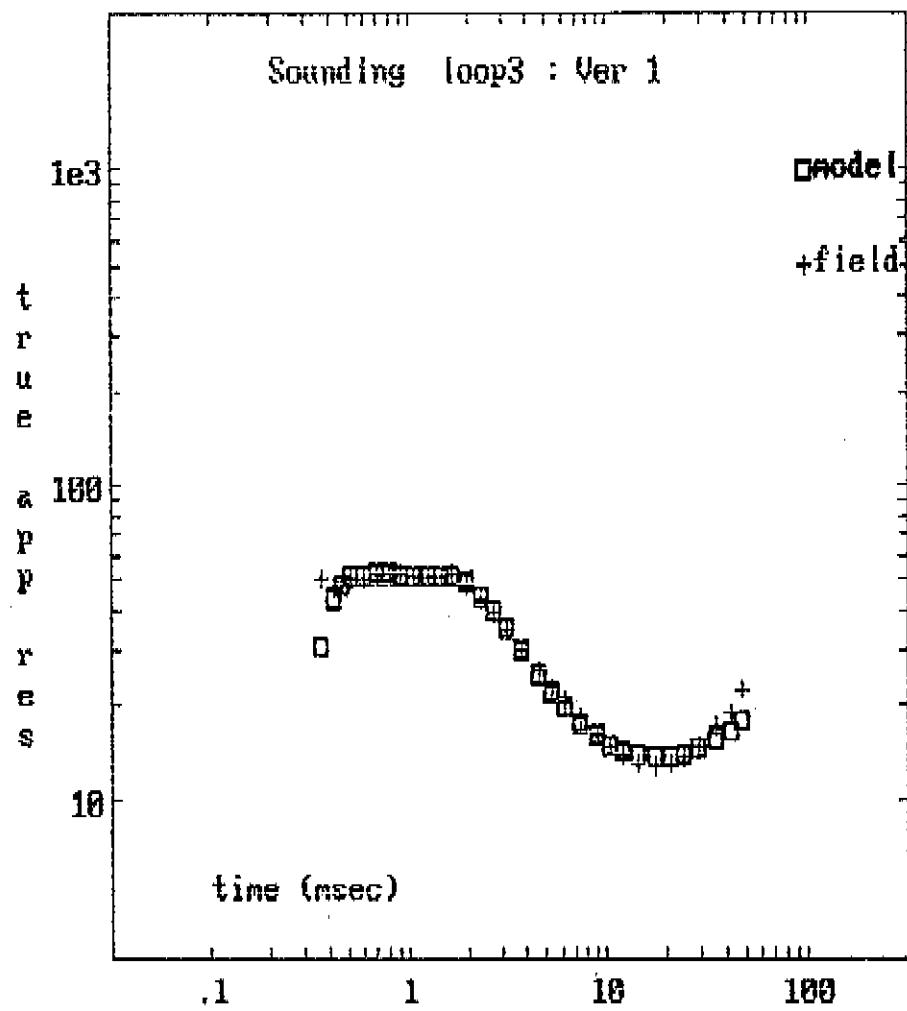
(393 ohm.m)

(393)

STD ERR= 5.2% : S= 34 S

E= 5%

S= 345



SOUNDING: loop4 : Vers 1
 Site MY8 : 10100N. 10100E.

10004A1

~~198 ohm.m~~ ~~38.9 m~~ ~~16.8 m~~
~~13.9 ohm.m~~ ~~38.7 m~~ ~~33.5 m~~

~~198~~
~~13.9~~

* 40.5 ohm.m * 171 m.

* 40.5

* 224 m.

* 4.1 ohm.m * 222 m.

* 4.1

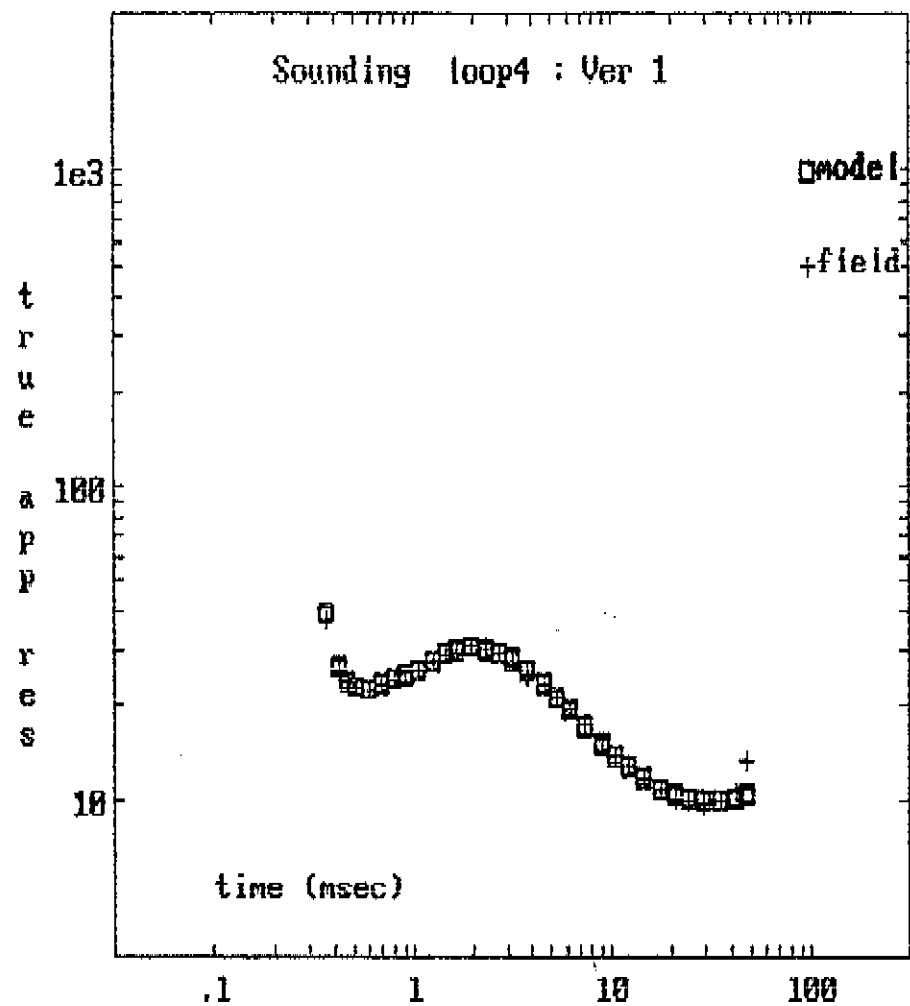
* 448 m.

(200 ohm.m)

(200)

STD ERR= 2.7% : S= 61 9

E= 3%
 S= 61S



SOUNDING: loop6 : Vers 1
Site MY8 : 10100N, 11900E.

~~7.5 ohm.m~~ ~~13.5 m~~ 13.5 m.

114 ohm.m * 196 m.

_____ * 208 m.

* 7.1 ohm.m * 220 m.

_____ * 428 m.

154 ohm.m

STD ERR- 1.6% : S- 34 S

100pBA1

~~7.5~~

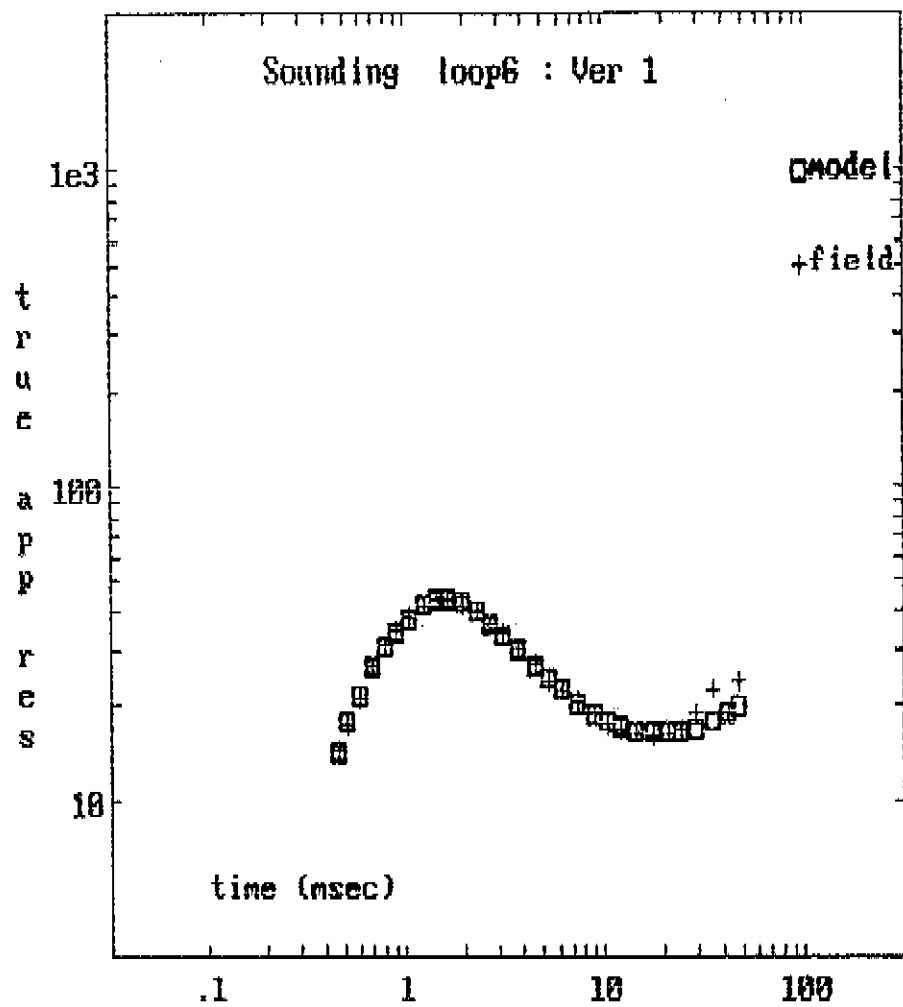
114

* 7.1

154

E= 2%

S= 345



SOUNDING: loop7 : Vers 1
Site MY8 : 10500N, 10100E.

10007A1

~~(25.2 ohm.m)~~ * ~~15.7 m~~ 16.7 m.

~~(25.2)~~

* 13.3 ohm.m * 119 m.

* 13.3

~~(74.4 ohm.m)~~ * ~~34.2 m~~ ~~136 m~~
170 m.

~~(74.4)~~

* 2.9 ohm.m * 242 m.

* 2.9

----- * 412 m.

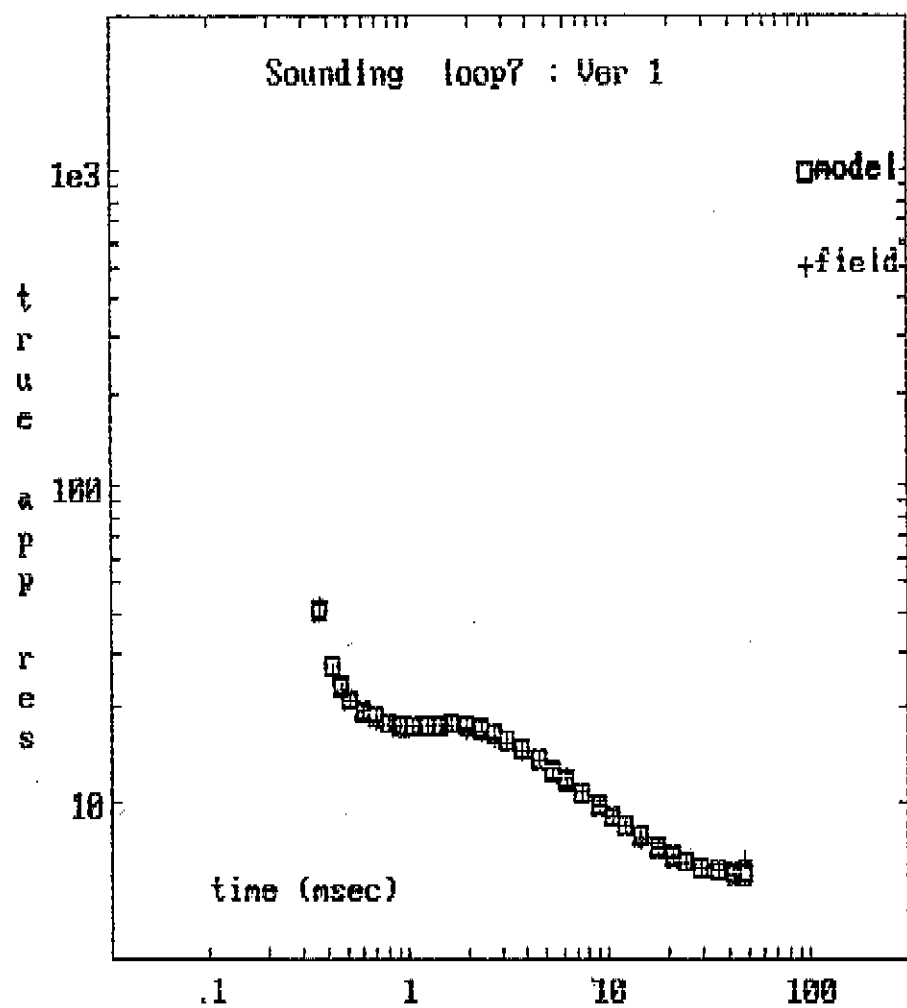
(9.9 ohm.m)

(9.9)

STD ERR- 1.9% : S- 93 S

E= 2%

S= 935



SOUNDING: loop8 : Vers 1
 Site MY8 : 10500N, 11000E.

loop8A1

~~(108 ohm.m) * 342 m. 1429.0 m.~~

~~(108)~~

(239 ohm.m) * 185 m.

(238)

(19.8 ohm.m)	(48.3 m.)	* 208 m.
.99 ohm.m	60.8 m.	* 265 m.
		* 316 m.

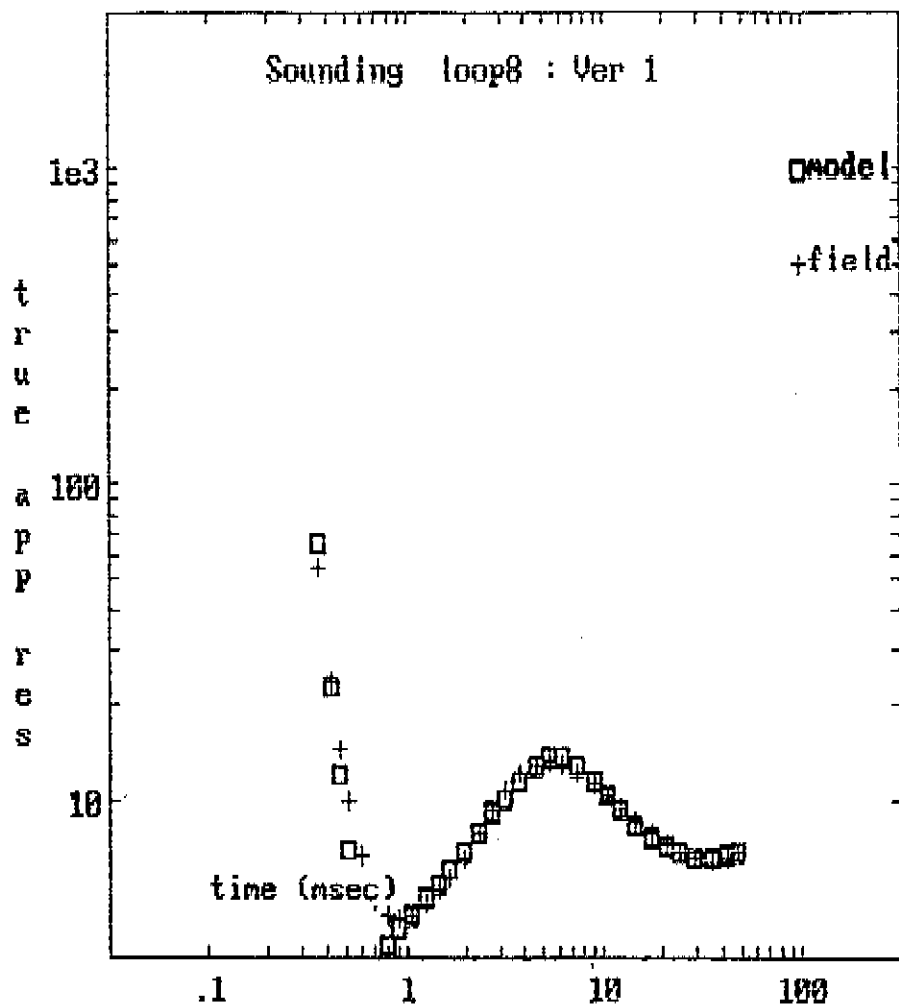
(19.8)
.99

(102 ohm.m)

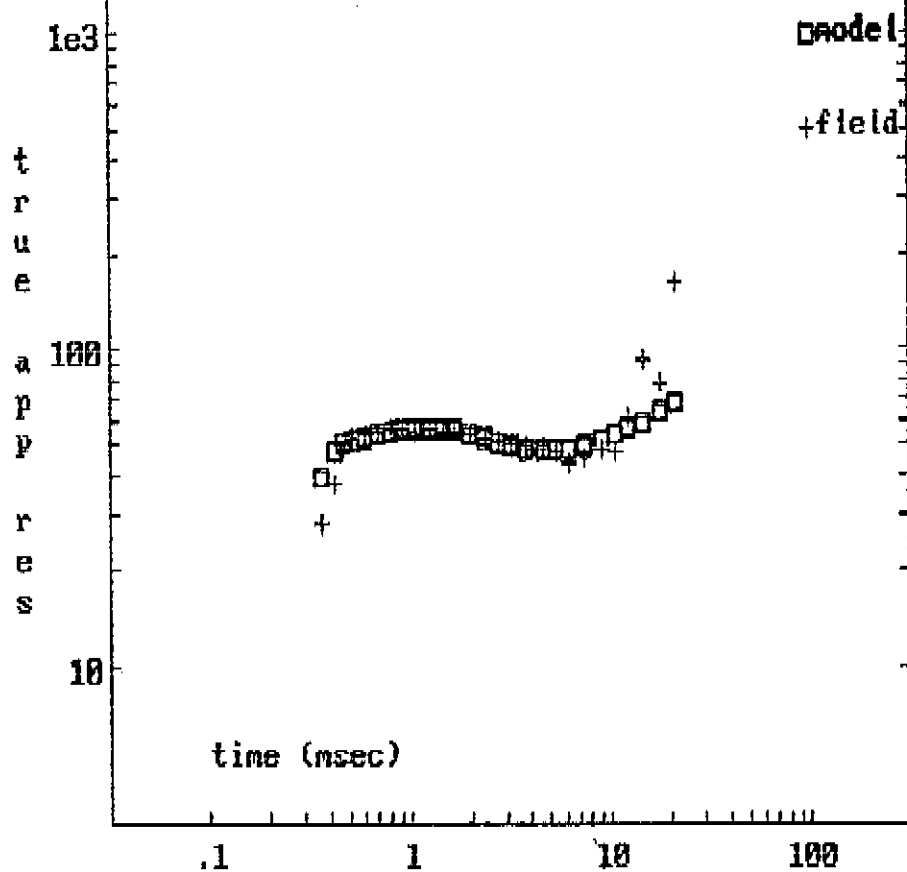
(102)

STD ERR- 5.3% : S- 74 5

E= 5%
 S= 745



Sounding loop9 : Ver 1



SOUNDING: loop9 : Vers 1
Site MY8 : 10500N, 11900E.

~~* 38.2 ohm.m (13.1 m) (13.1 m.)~~

* 59.0 ohm.m * 270 m.

-----* 283 m.

26.5 ohm.m 145 m.

-----* 428 m.

(371 ohm.m)

STD ERR= 5.0% : S= 10 S

100p9A1

~~* 38.2~~

* 59.0

26.5

(371)

E= 5%
S= 10S

SOUNDING: loop1 : Vers 1
Site MY22 : 9700N , 10100E.

loop1 141

~~40.5 ohm.m~~ ~~21.2 m~~ 21.2 m.

~~40.5~~

* 141 ohm.m * 202 m.

* 141

* 224 m.

552 ohm.m 352 m.

552

576 m.

188 ohm.m 178 m.

188

* 754 m.

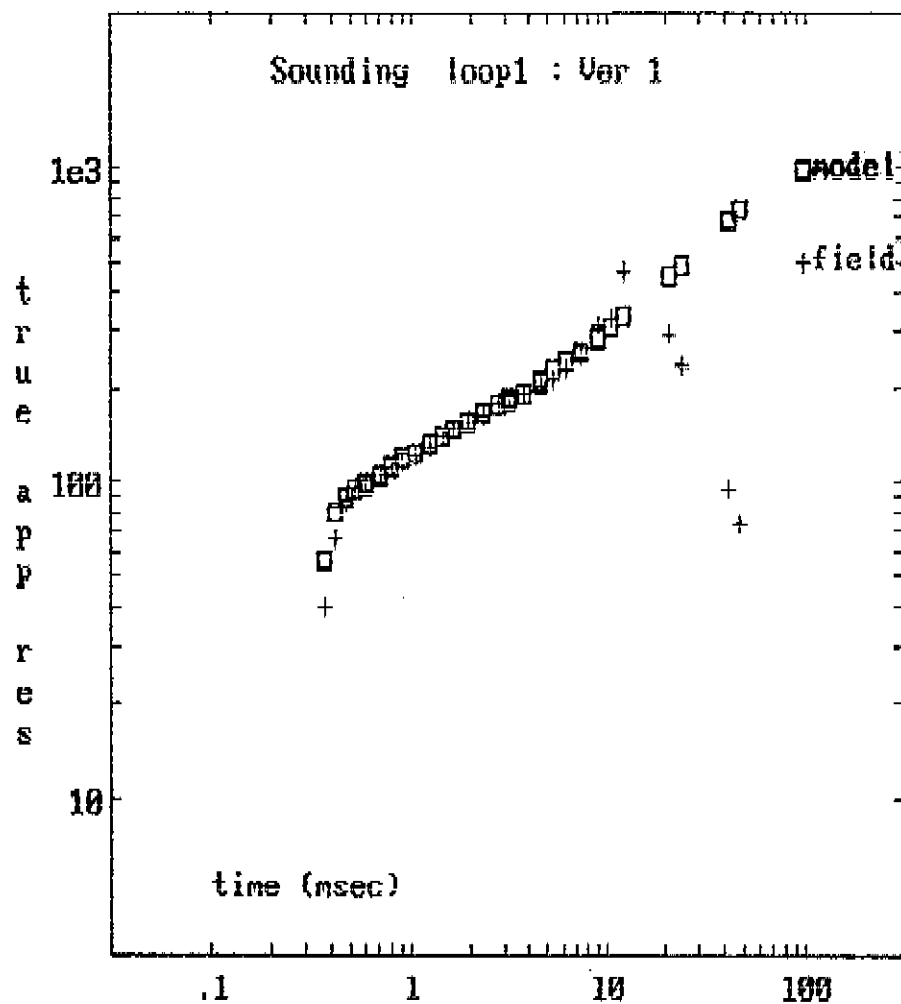
(3196 ohm.m)

(3196)

STD ERR= 3.9% : S= 4 S

E= 4%

S= 45



SOUNDING: loop3 : Vers 1
Site MY22 : 9700N . 11900E.

loop3A1

382 ohm.m * 134 m.

382

* 134 m.

* 42.3 ohm.m * 307 m.

* 42.3

* 441 m.

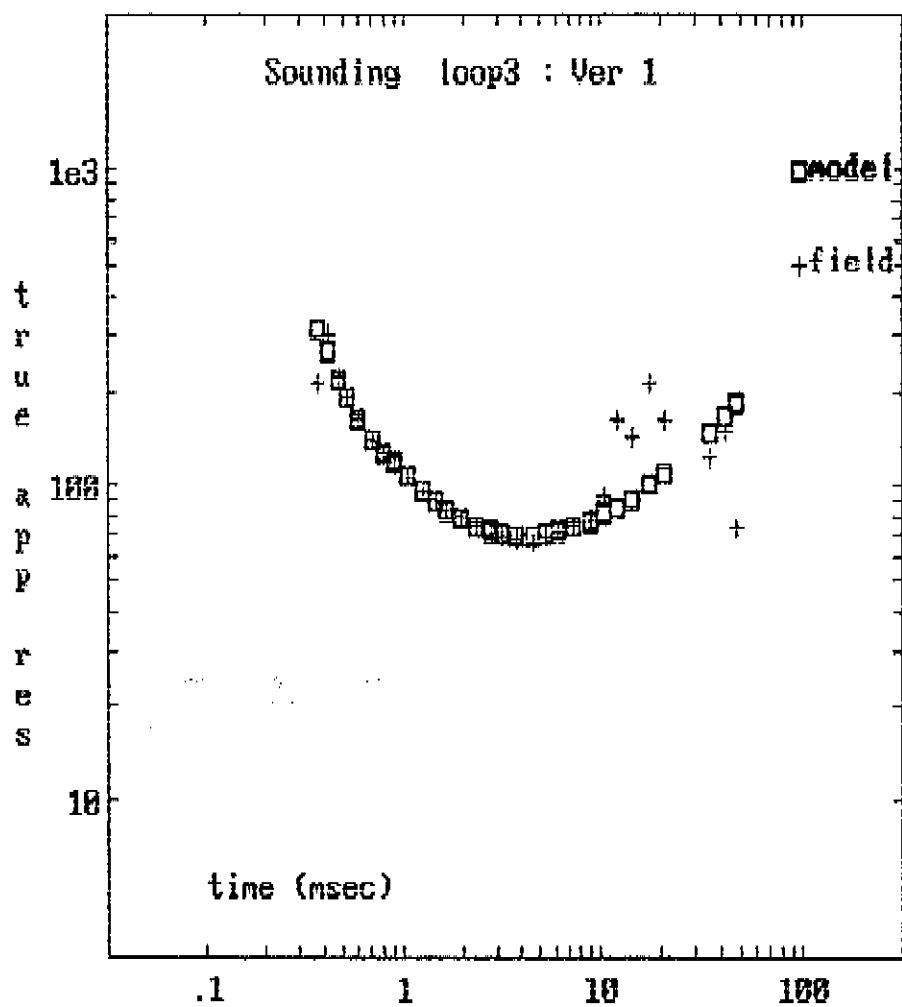
(825 ohm.m)

(825)

STD ERR- 2.0% : S- 8 S

E= 2%

S= 8S



SOUNDING: loop5 : Vers 1
 Site MY22 : 10100N, 11000E.

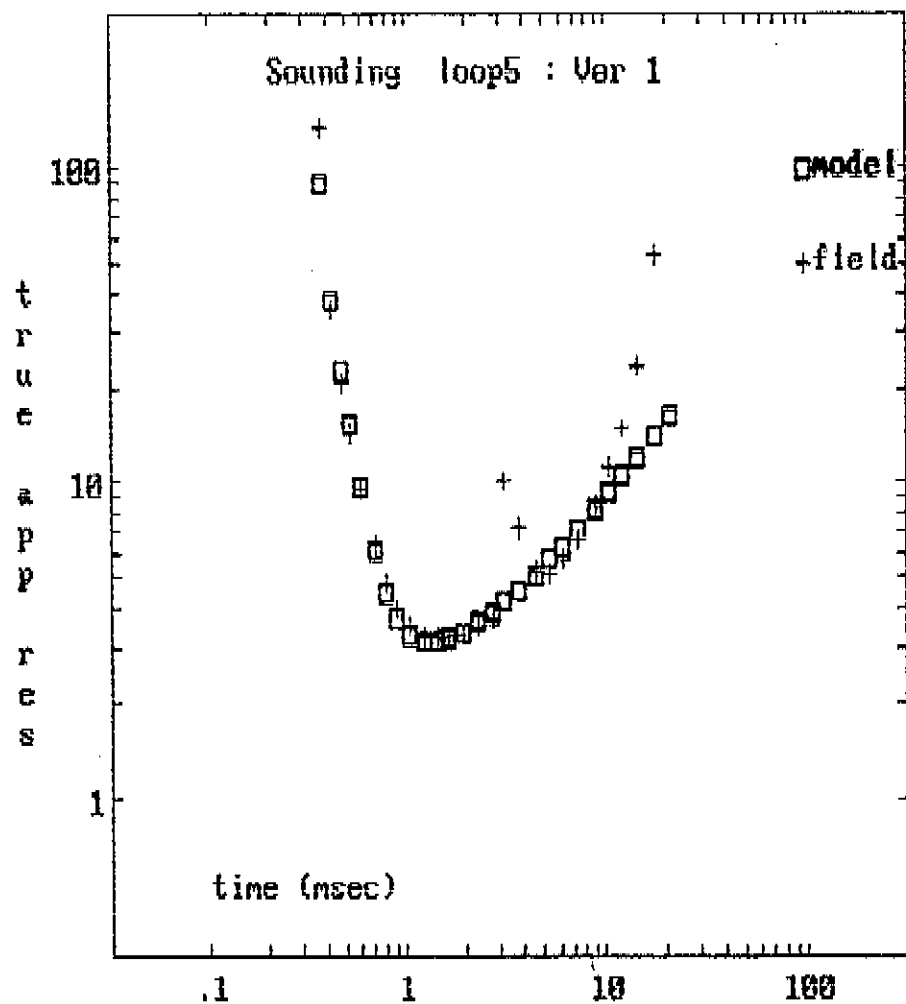
1009541

(250 ohm.m)	* 15.0 m	15.0 m.
* 1.7 ohm.m	* 29.2 m	44.2 m.
(376 ohm.m)		

(250)
* 1.7
(378)

STD ERR= 7.9% ; S= 17 S

E= 8%
 S= 175



SOUNDING: loop6 : Vers 1
Site MY22 : 10100N. 11900E.

1008641

~~* 15.5 ohm.m~~ * ~~11.1 m~~ 11.1 m.

~~* 15.5~~

(1201 ohm.m) * 249 m.

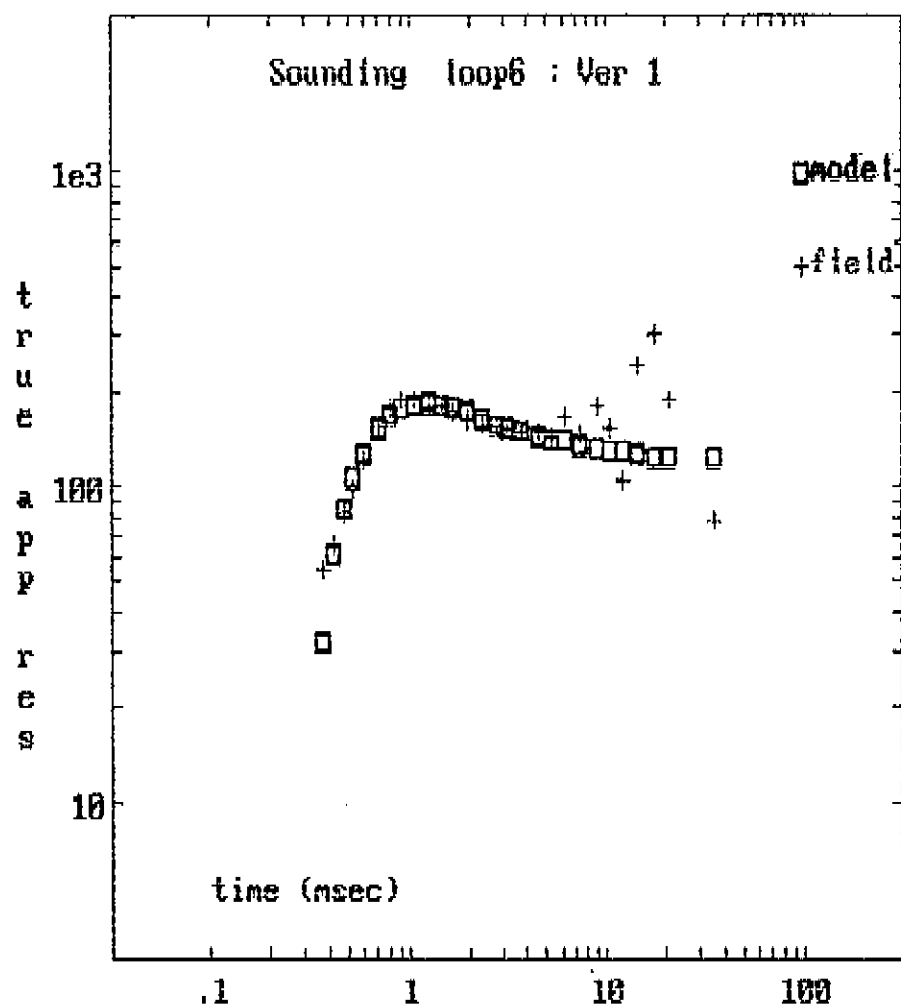
(1201)

_____ * 254 m.
* 99.7 ohm.m

_____ * 99.7

STD ERR= 4.8% : S= 1 S

E= 5%
S= 15



SOUNDING: loop7 : Vers 1
Site MY22 : 10500N, 10100E.

10007A1

~~(145 ohm.m)~~ * ~~4.9 m.~~ 4.8 m.

~~(145)~~

* 4.7 ohm.m * 38.7 m.

* 4.7

----- * 43.5 m.

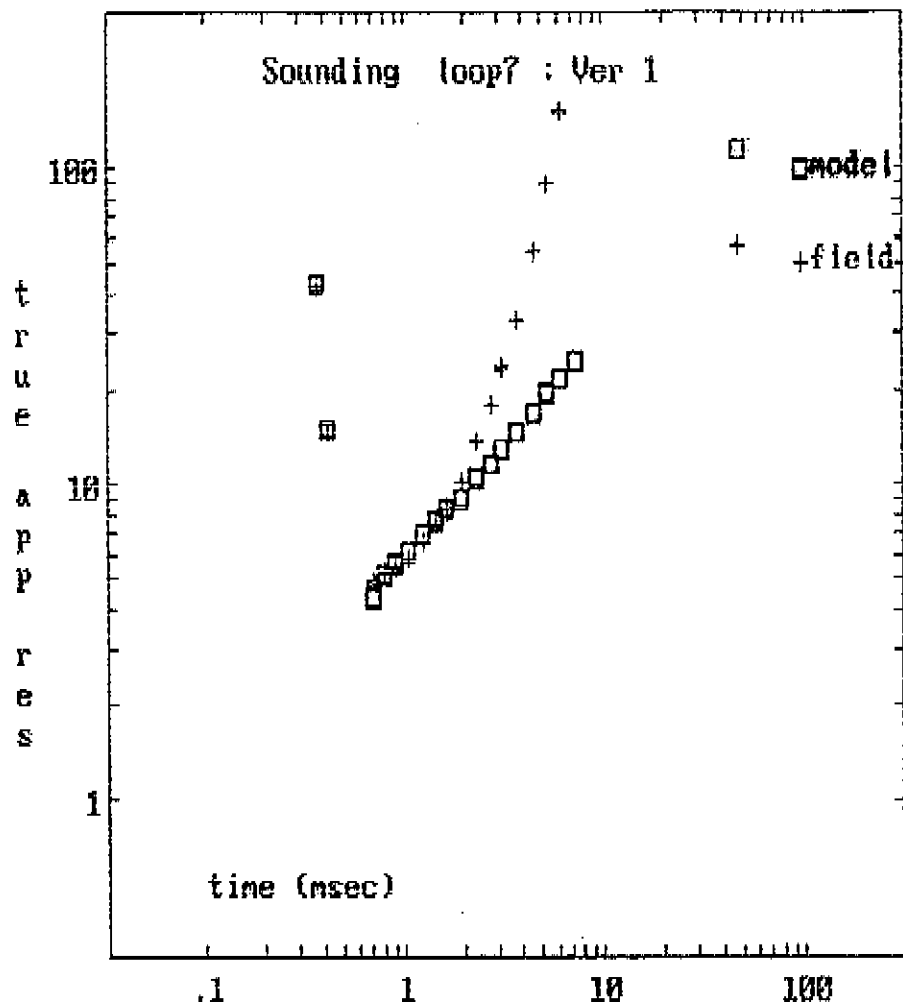
(405 ohm.m)

(405)

STD ERR= 2.1% : S= 8 S

E= 2%

S= 8S



SOUNDING: loop8 : Vers 1
 Site MY22 : 10500N, 11000E.

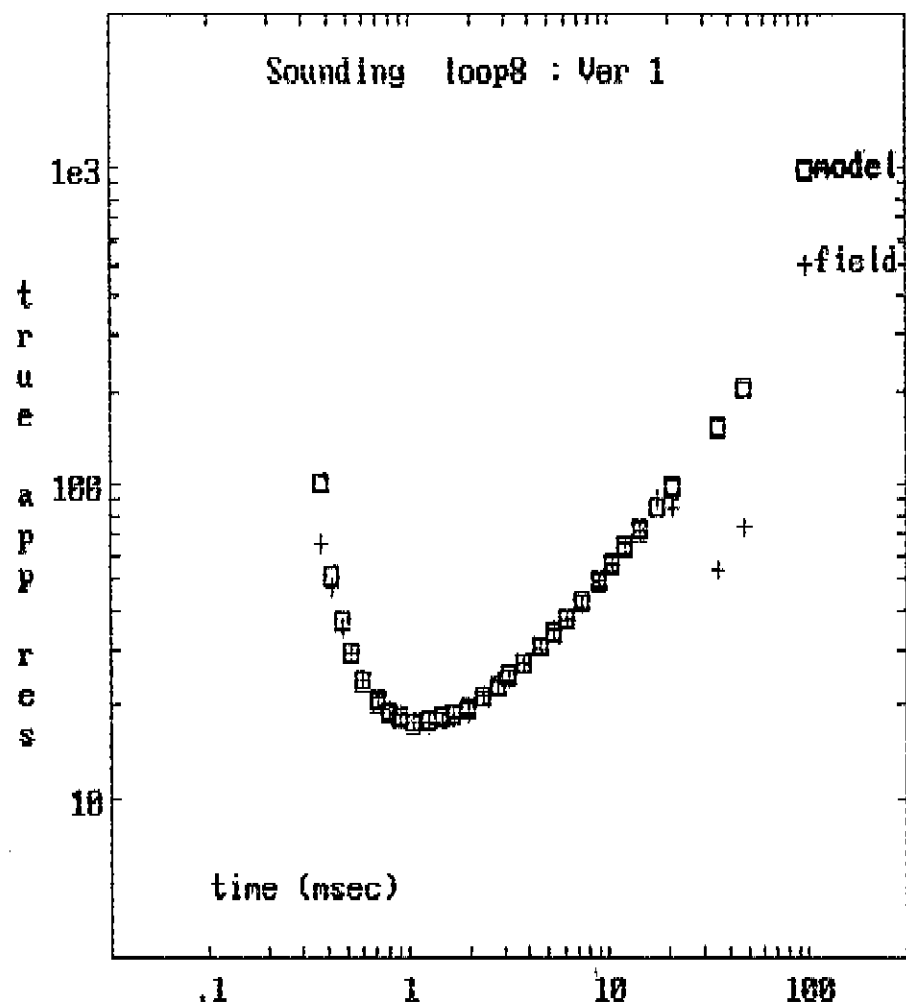
10000A1

264 ohm.m	* 45.2 m.
* 6.2 ohm.m	* 40.6 m.
(988 ohm.m)	* 85.8 m.

264
* 6.2
(988)

STD ERR= 2.4% : S= 7 S

E= 2%
 S= 75



SOUNDING: loop1 : Vers 1
Site MY23 : 9700N , 10150E.

1000141

* 58.2 ohm.m 70.5 m.

* 58.2

70.5 m.

117 ohm.m * 134 m.

117

* 205 m.

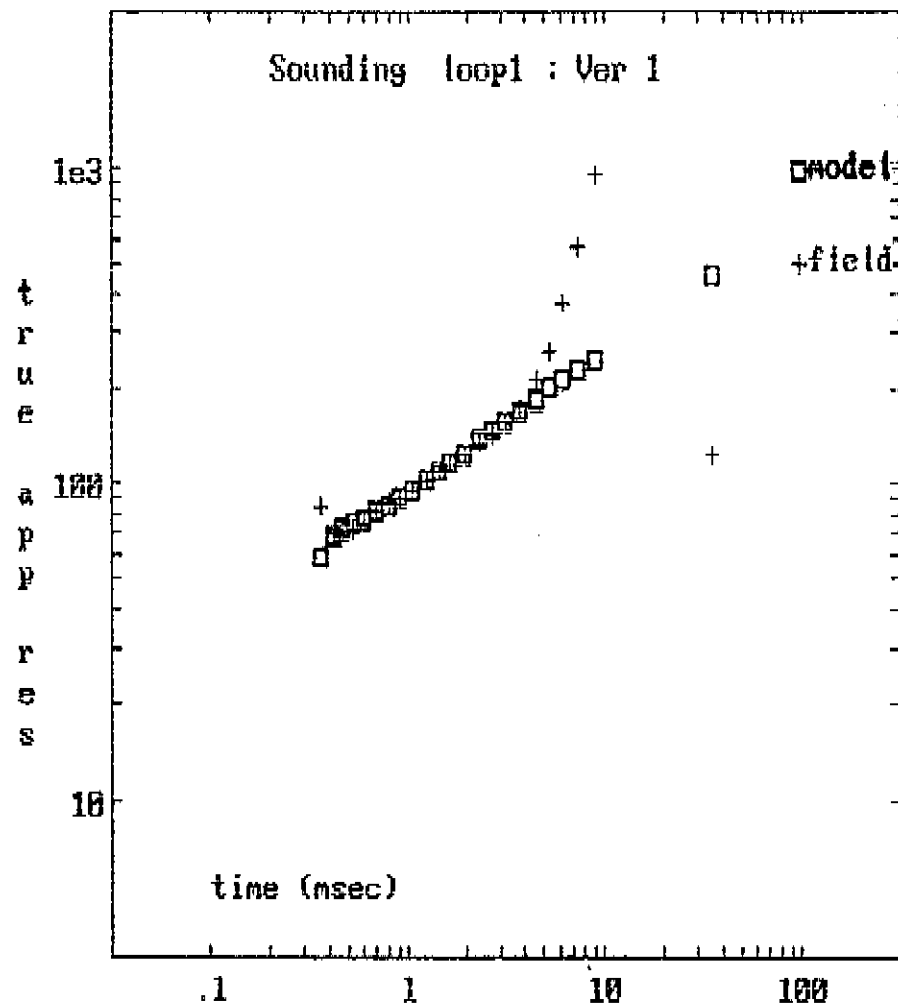
* 541 ohm.m

* 541

STD ERR= 2.1% : S= 2 S

E= 2%

S= 25



SOUNDING: loop2 : Vers 1
Site MY23 : 8700N , 10750E.

1000241

(228 ohm.m) * 30.6 m.

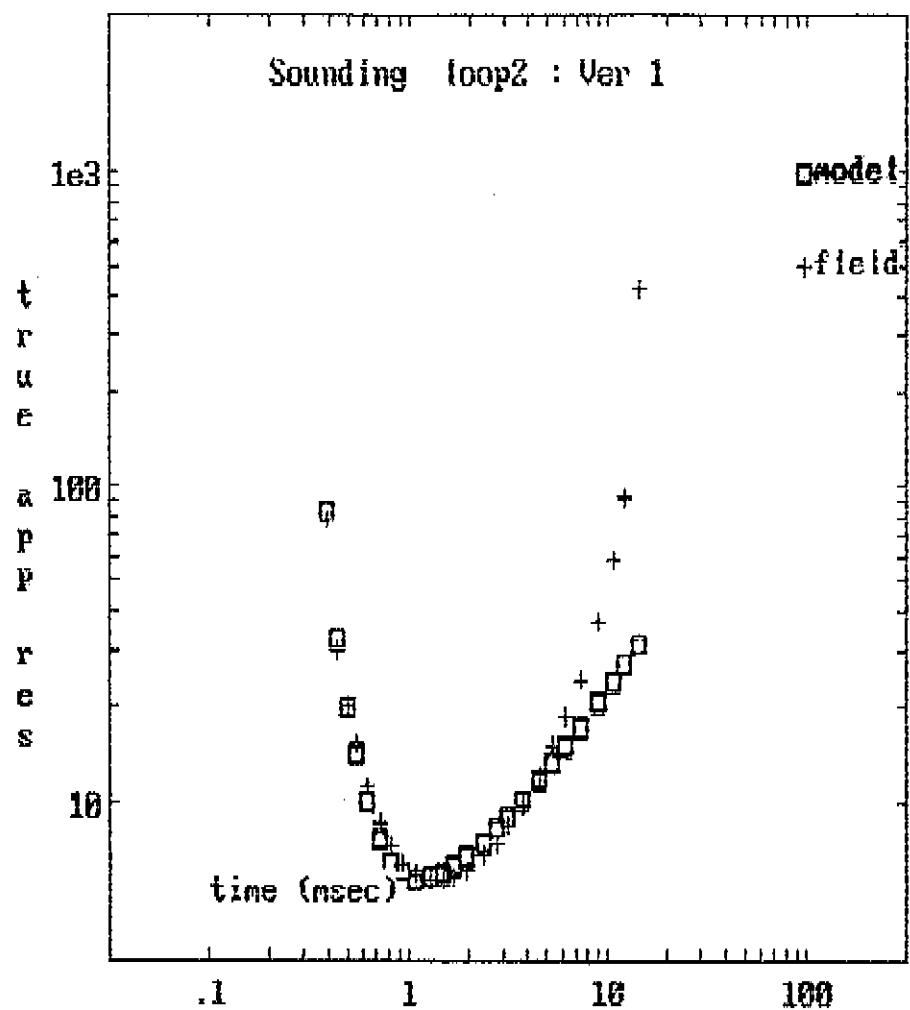
(228)

~~17 ohm.m~~ ~~17 m~~ ~~30.6 m~~
720 ohm.m

~~17~~
720

STD ERR=10.3% : S= 10 S

E=10%
S= 105



SOUNDING: loop3 : Vers 1
Site MY23 : 9700N , 11350E.

1000001

(207 ohm.m) * 24.1 m.

(207)

.67 ohm.m 6.2 m. * 24.1 m.
* 30.3 m.

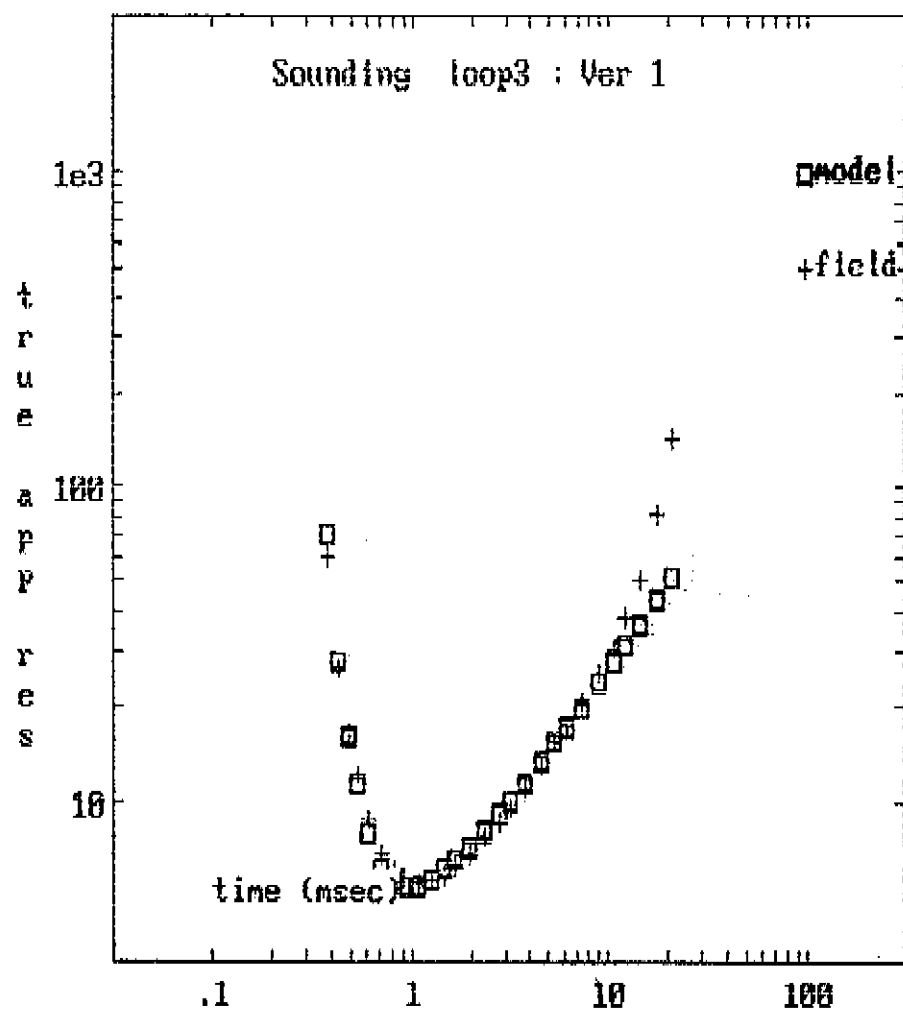
.67

(862 ohm.m)

(862)

STD ERR= 5.7% : S= 9 9

E= 8%
S= 88



SOUNDING: loop4 : Vers 1
 Site MY23 : 10100N. 10150E.

10004A1

(298 ohm.m)	* 59.0 m.	59.0 m.
29.3 ohm.m	59.6 m.	59.6 m.

(298)
29.3

(1141 ohm m) 457 m.

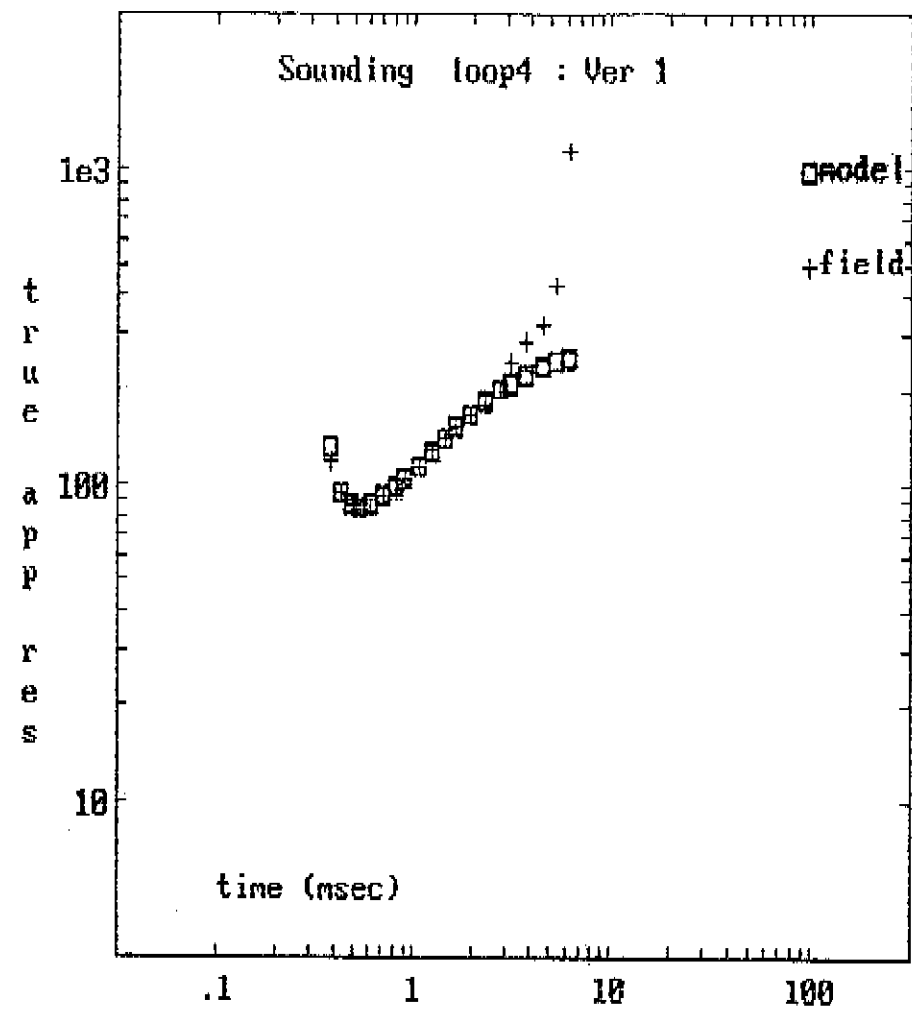
(1141)

555 m.
 (271 ohm.m)

(271)

STD ERR= 1.6% : S= 2 S

E= 2%
 S= 25



SOUNDING: loop5 : Vers 1
Site MY23 : 10100N, 10750E.

1005541

(258 ohm.m) * 41.0 m.

(258)

.39 ohm.m	*	4.7 m	* 41.0 m.
			* 45.7 m.

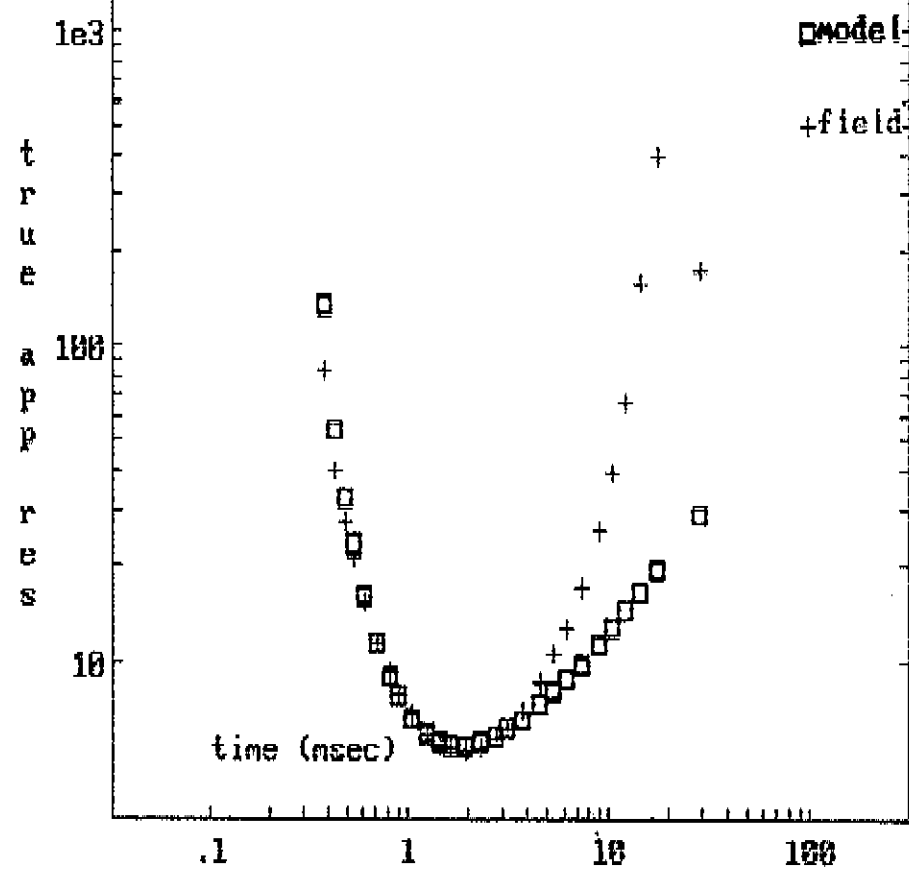
.39
* 205

* 205 ohm.m

STD ERR= 2.8% : S= 14 S

E= 3%
S= 145

Sounding loop5 : Ver 1



SOUNDING: loop6 : Vers 1
Site MY23 : 10100N, 11350E.

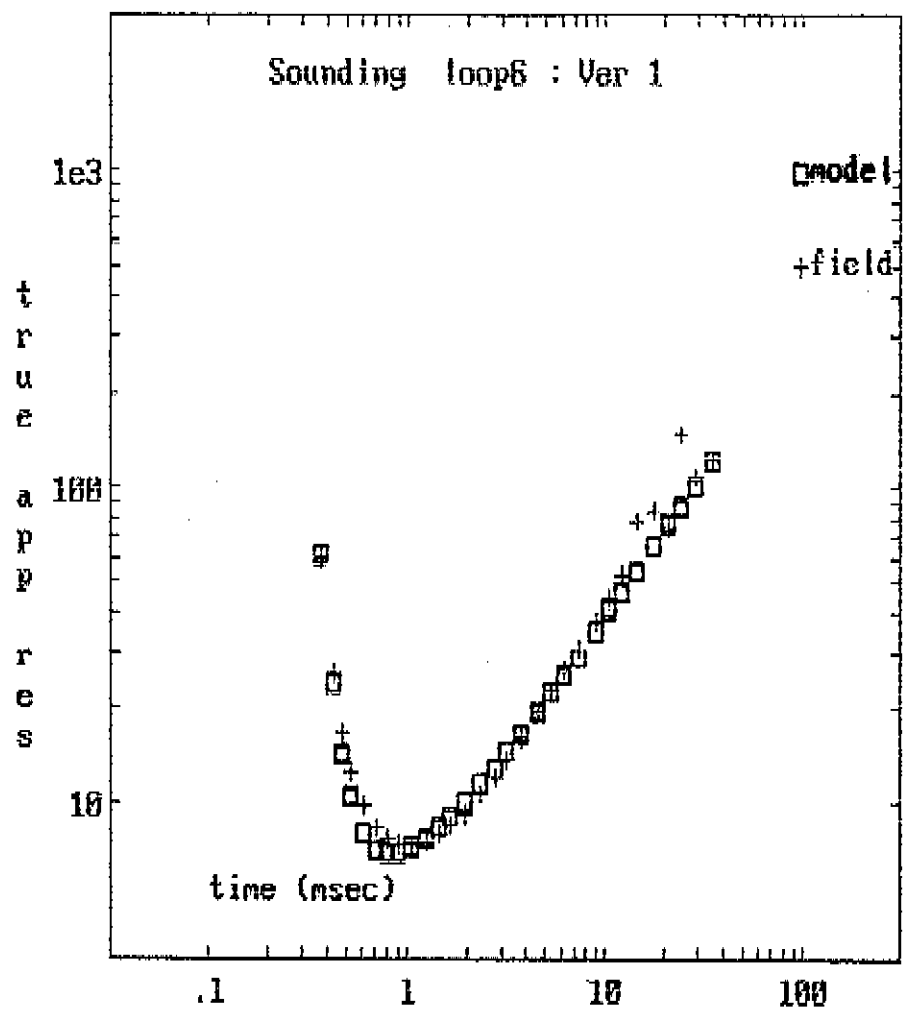
10006A1

(204 ohm.m)	* 23.7 m.	
1.1 ohm.m	8.2 m.*	23.7 m.
(1228 ohm.m)		31.9 m.

(204)
1.1
(1228)

STD ERR= 7.0% : S= 8 S

E= 7%
S= 85



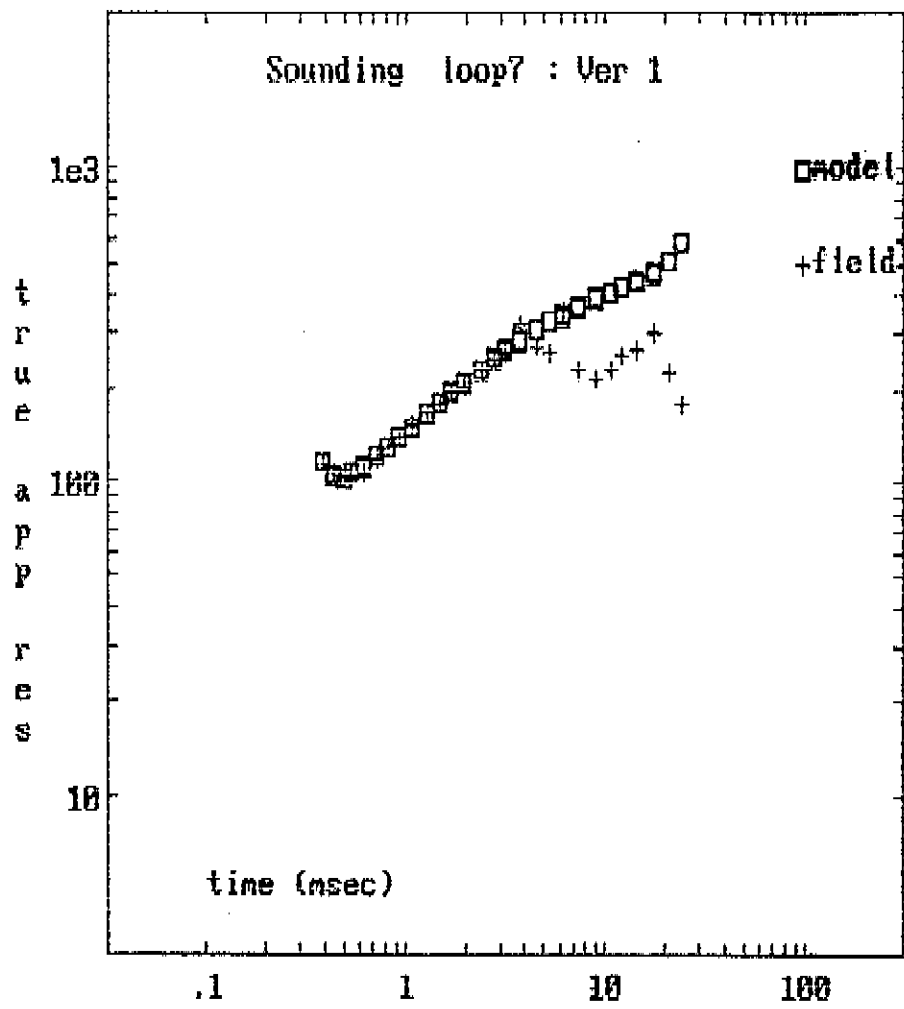
SOUNDING: loop7 : Vers 1
 Site MY23 : 10500N, 10150E.

1000741

* 169 ohm.m	* 63.5 m.	* 169
40.9 ohm.m	63.5 m.	40.9
	34.7 m.	
* 663 ohm.m	* 88.2 m.	* 663

STD ERR= 5.6% : S= 1 S

E= 6%
 S= 15



SOUNDING: loop8 : Vers 1
 Site MY23 : 10500N, 10750E.

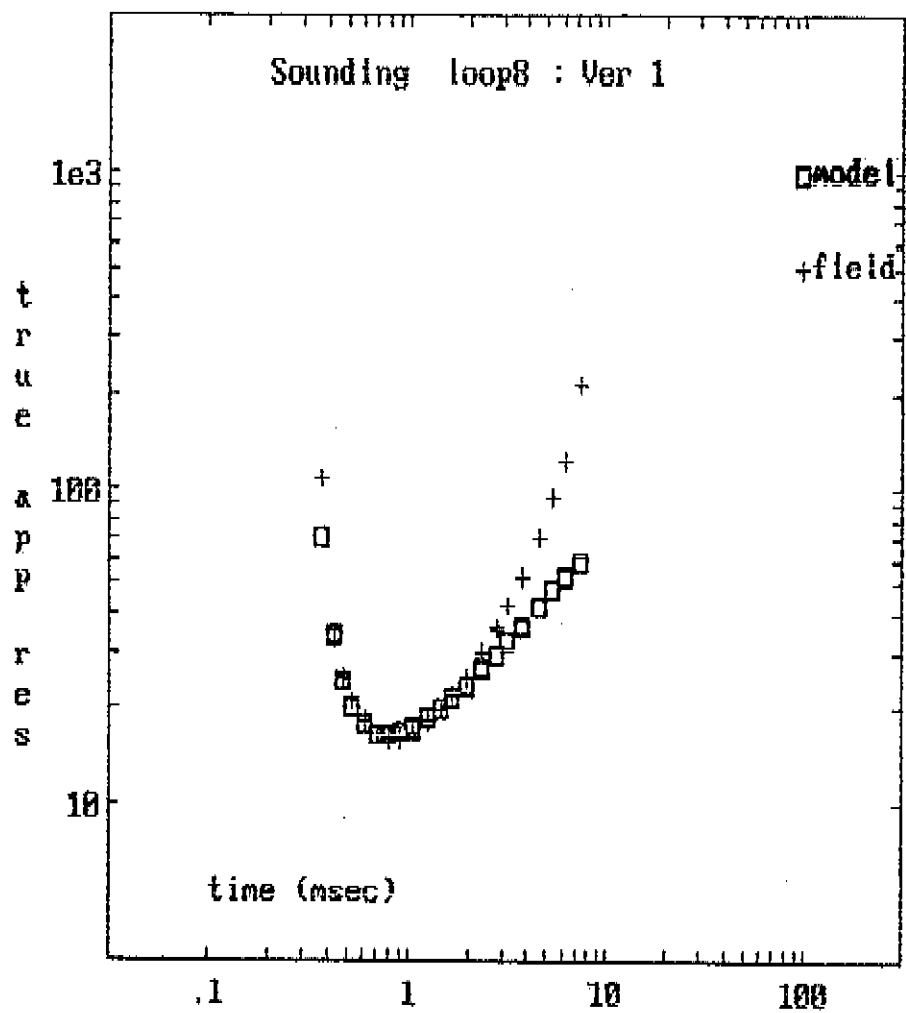
1000001

181 ohm.m	x 38.7 m.
2.4 ohm.m	11.0 m. # 38.7 m.
(388 ohm.m)	

181
2.4
(388)

STD ERR= 3.1% : S= 5 S

E= 3%
 S= 55



SOUNDING: loop9 : Vers 1
Site MY23 : 10500N, 11350E.

10099A1

~~(277 ohm.m) * 543 m. 2499.8 m.~~

~~(277)~~

(707 ohm.m) * 598 m.

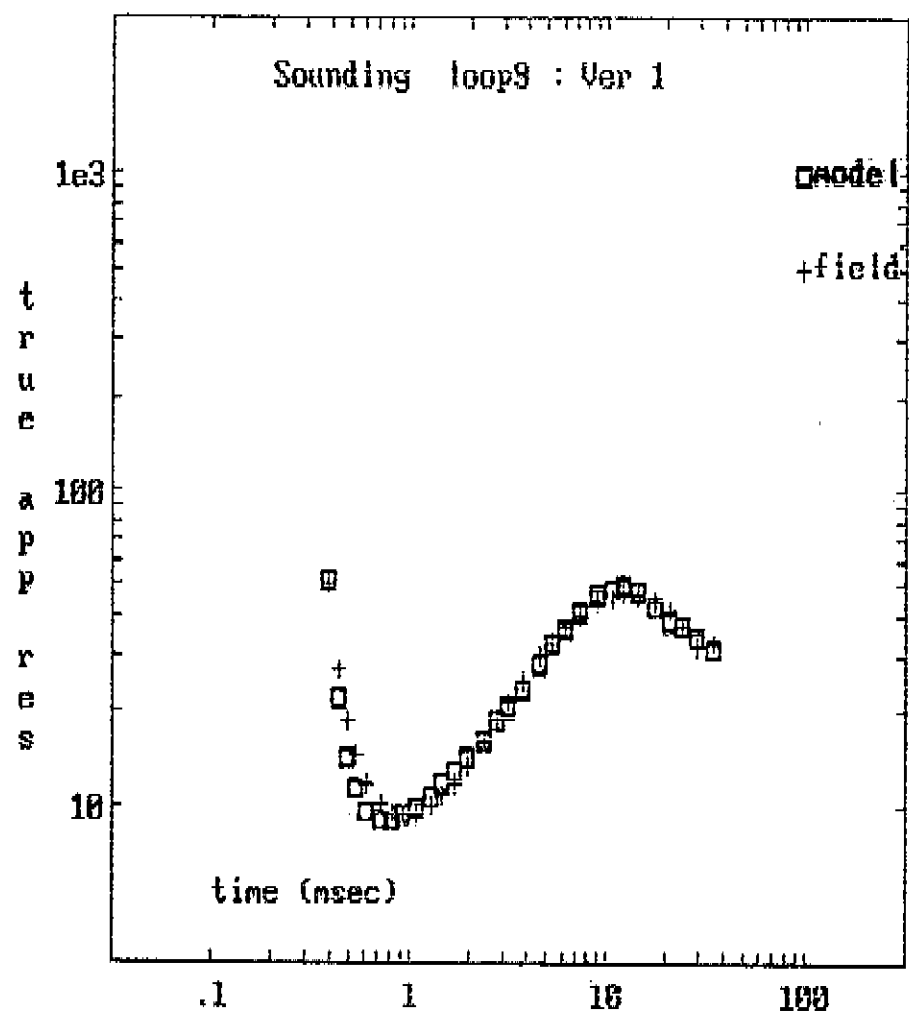
(707)

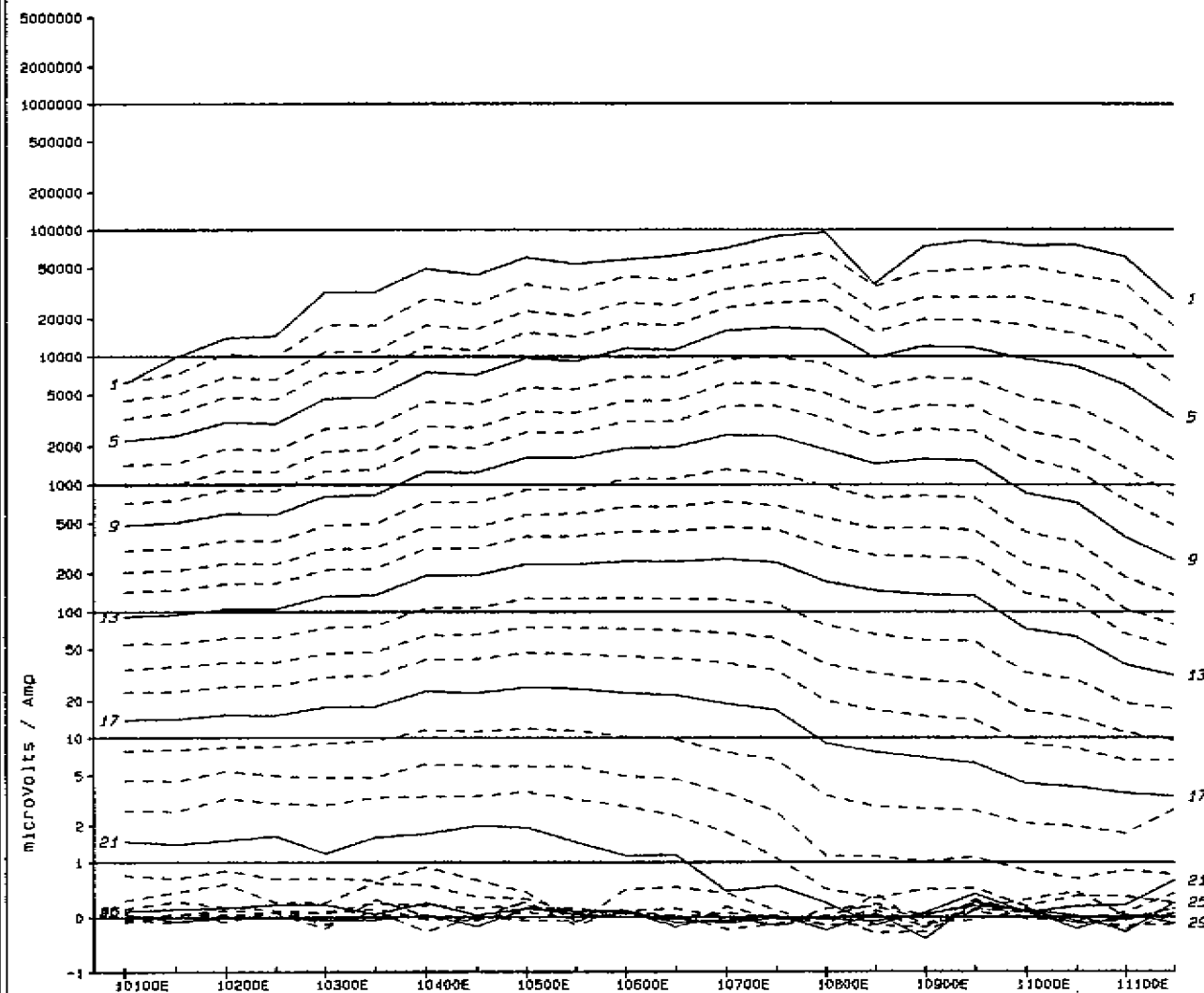
_____* 573 m.
3.7 ohm.m

3.7

STD ERR= 8.6% : S= 7 S

E= 7%
S= 7S





Gate mid-times (ms)	1	.050	2	.100	3	.150	4	.200	5	.275	6	.375	7	.475	8	.575	9	.725	10	.925
	11	1.125	12	1.325	13	1.625	14	2.025	15	2.425	16	2.825	17	3.425	18	4.225	19	5.025	20	5.825
	21	7.025	22	8.625	23	10.23	24	11.83	25	14.23	26	17.43	27	20.63	28	23.83	29	28.63	30	35.03

CURRENT : 4.5 Amps

RAMP : .246 ms

DELAY : .245 ms

LOGARITHMIC PROFILES
200m X 200m TRANSMITTER LOOP

COMPOSITE TIME SERIES
SIROTEM MARK 3 RECEIVER

TESLA-10 PTY. LTD.

Scale 1 : 5000

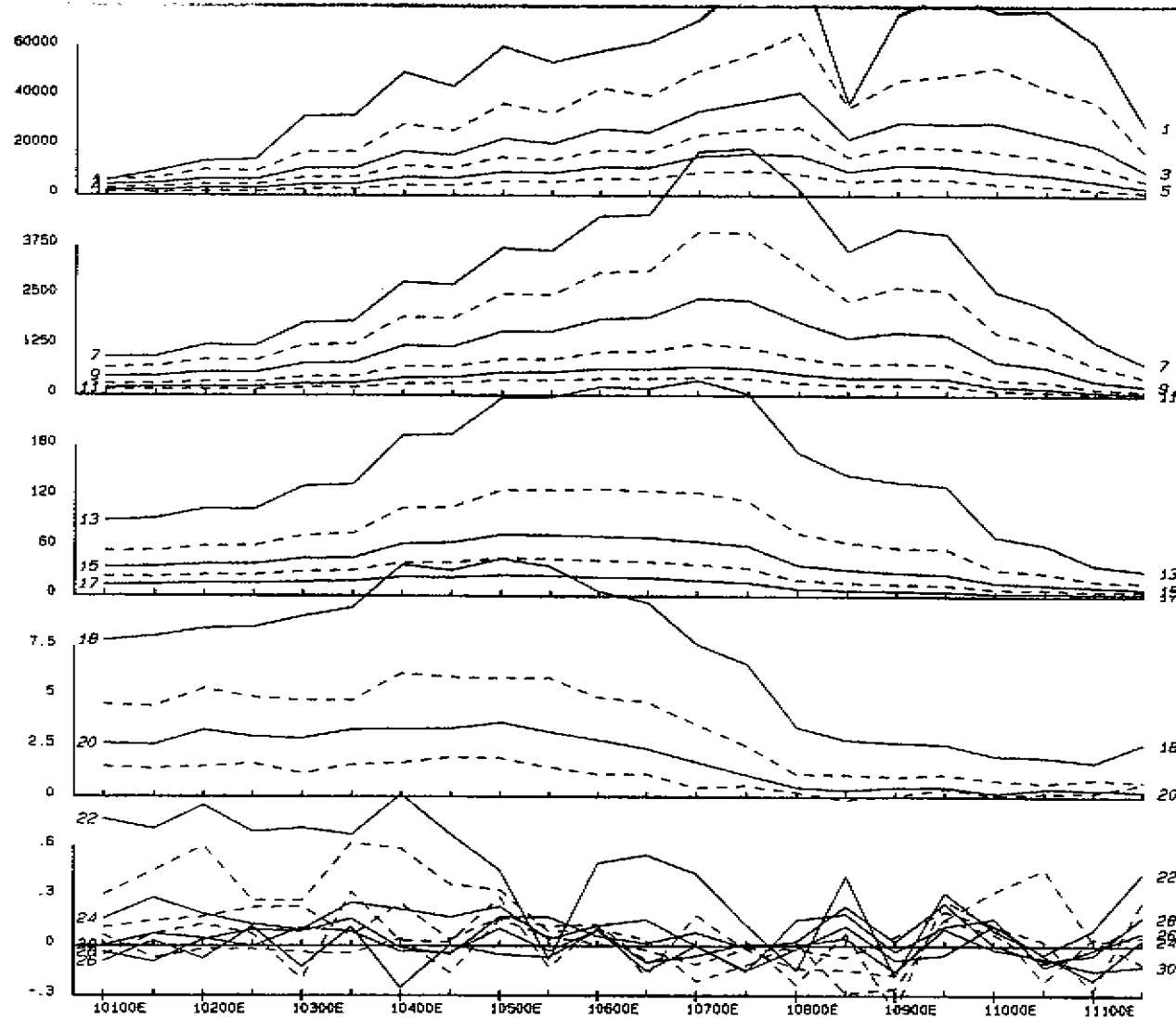
BHP MINERALS
ANOMALY MY24
CENTRAL LOOP SIROTEM
VERTICAL COMPONENT

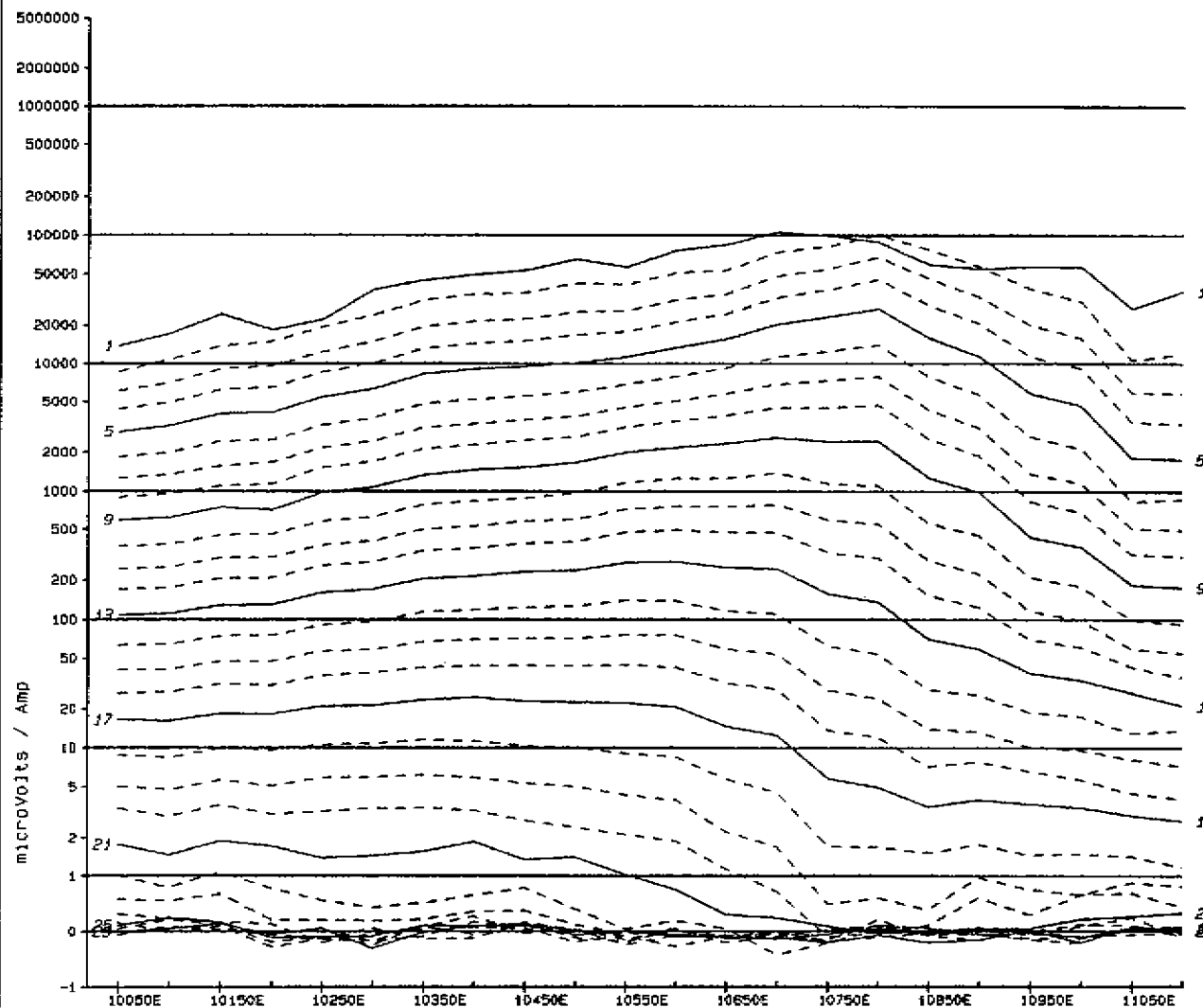
LINE 9700N

10-02-93

figure

MicroVolts / Amp





Gate mid-times (ms)	1	2	3	4	5	6	7	8	9	10
	.050	.100	.150	.200	.275	.375	.475	.575	.725	.925
	11	1.125	12	1.325	13	1.625	14	2.025	15	2.425
	16	2.825	17	3.425	18	4.225	19	5.025	20	5.825
	21	7.025	22	8.625	23	10.23	24	11.83	25	14.23
	26	17.43	27	20.63	28	23.83	29	28.63	30	35.03

CURRENT : 4.5 Amps

RAMP : .251 ms

DELAY : .245 ms

LOGARITHMIC PROFILES

200m X 200m TRANSMITTER LOOP

COMPOSITE TIME SERIES

SIROTEM MARK 3 RECEIVER

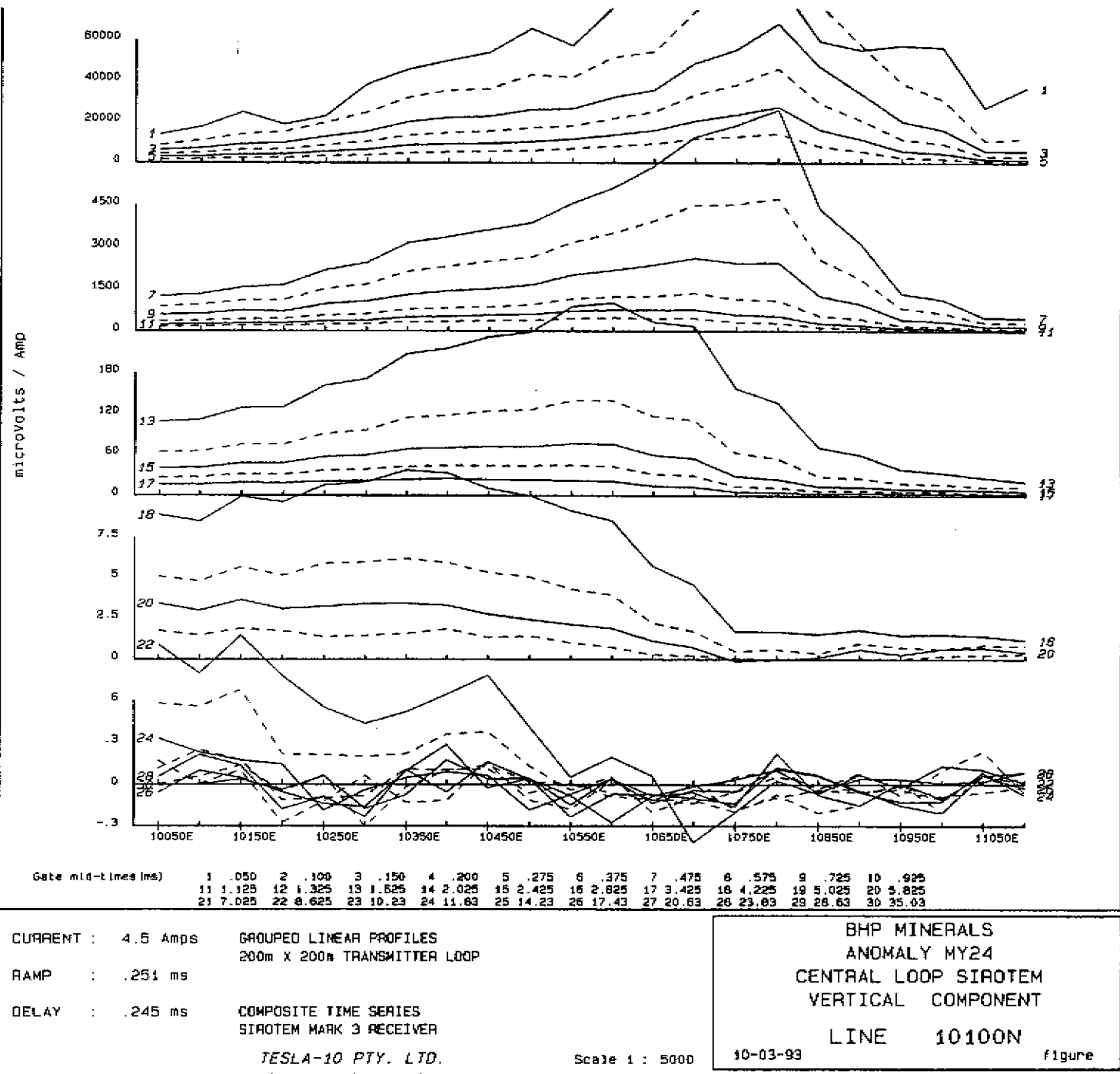
TESLA-10 PTY. LTD.

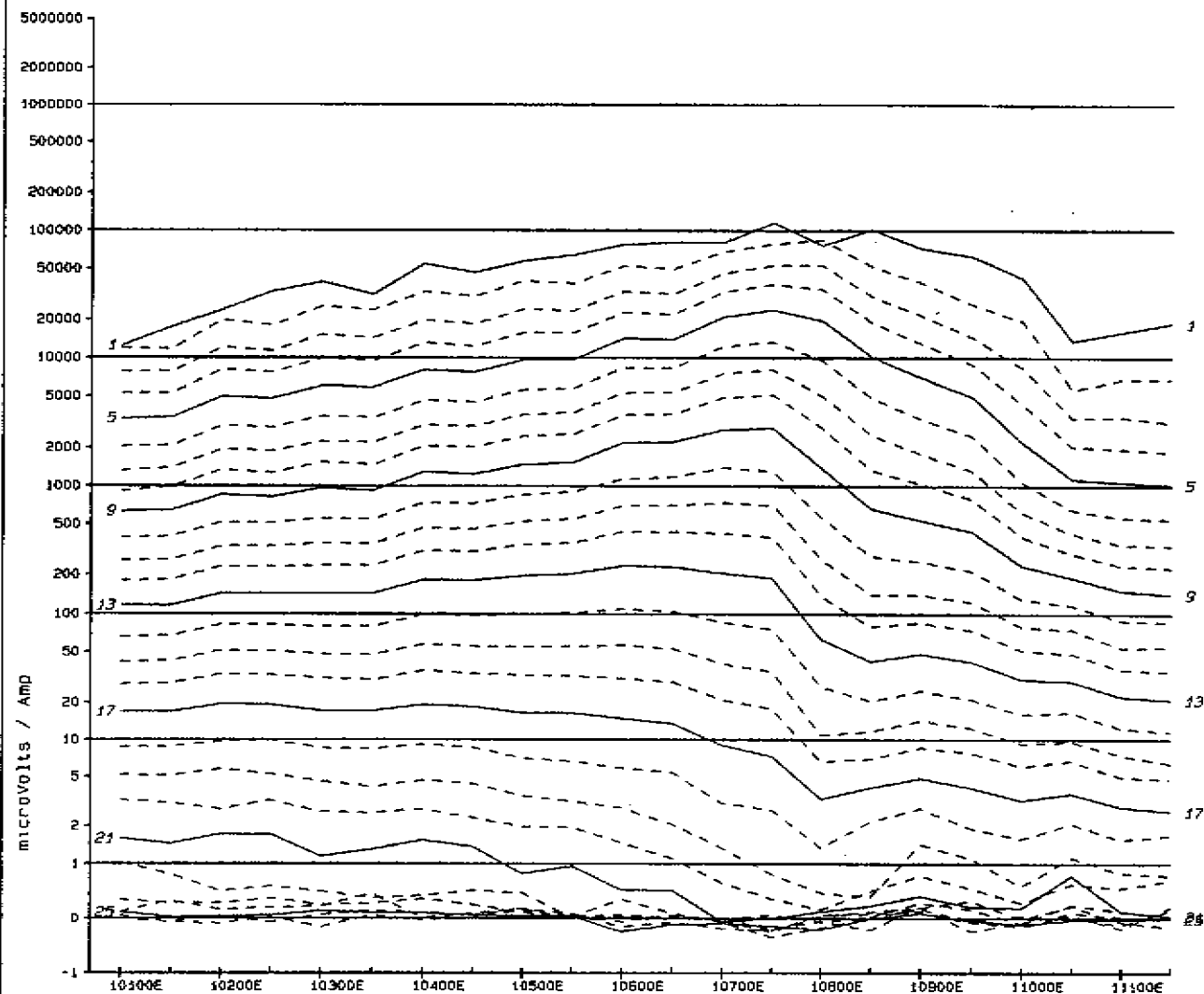
Scale 1 : 5000

BHP MINERALS
ANOMALY HY24
CENTRAL LOOP SIROTEM
VERTICAL COMPONENT
LINE 10100N

10-03-93

figure





Gate mid-times (ms)	1	2	3	4	5	6	7	8	9	10
	.050	.100	.150	.200	.275	.375	.475	.575	.725	.925
	11	1.125	12	1.325	13	1.625	14	2.025	15	2.425
	16	2.825	17	3.425	18	4.225	19	5.025	20	5.825
	21	7.025	22	8.625	23	10.23	24	11.83	25	14.23
	26	17.43	27	20.63						

CURRENT : 4.5 Amps

LOGARITHMIC PROFILES
200m X 200m TRANSMITTER LOOP

RAMP : .254 ms

DELAY : .245 ms

COMPOSITE TIME SERIES
SIROTEM MARK 3 RECEIVER

TESLA-10 PTY. LTD.

Scale 1 : 5000

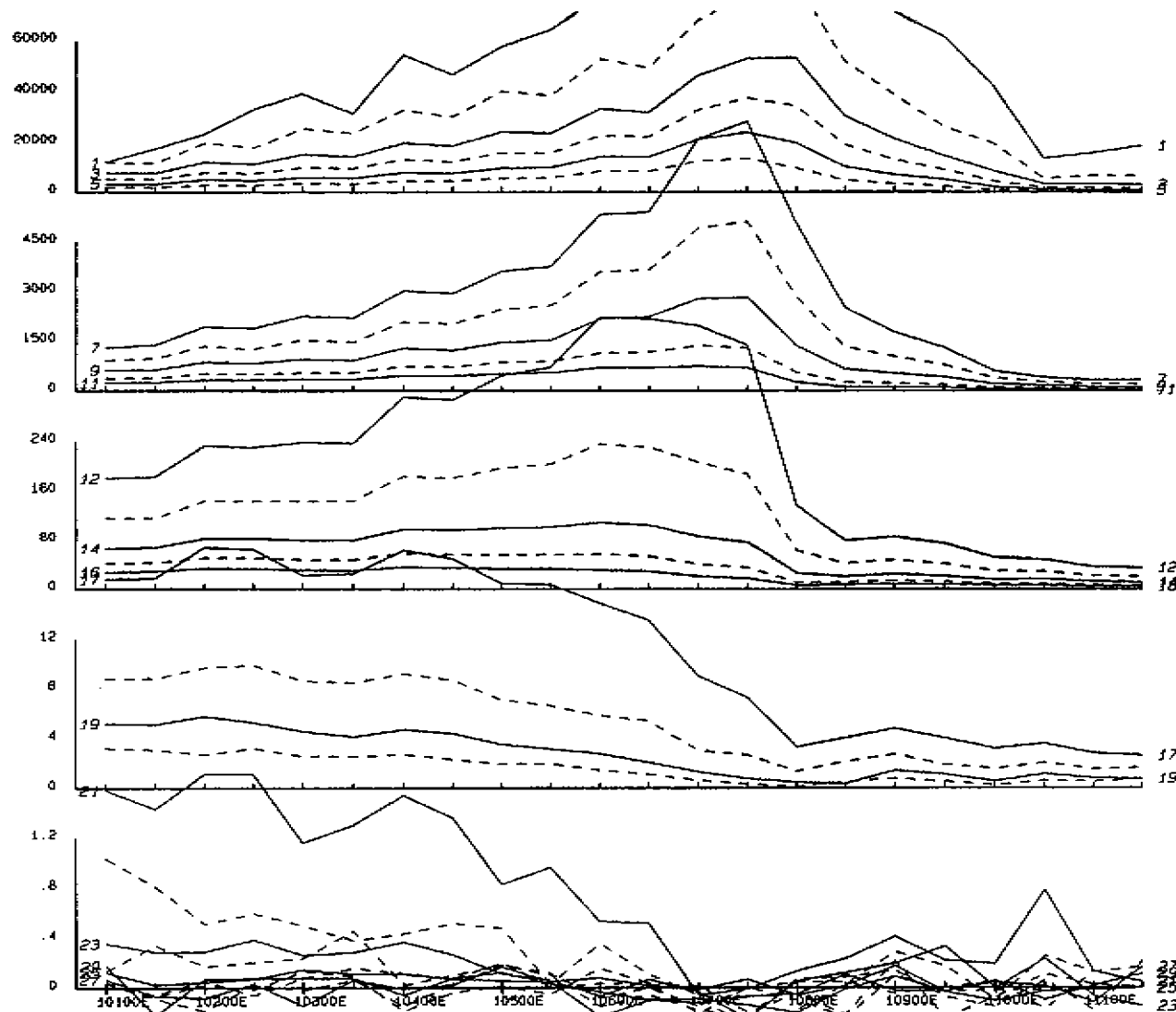
BHP MINERALS
ANOMALY MY24
CENTRAL LOOP SIROTEM
VERTICAL COMPONENT

LINE 10500N

10-04-93

figure

microvolts / Amp



Gate mid-times (ms)	1	2	3	4	5	6	7	8	9	10
	.050	.100	.150	.200	.275	.375	.475	.575	.725	.925
	11 1.125	12 1.325	13 1.525	14 2.025	15 2.425	16 2.825	17 3.425	18 4.225	19 5.025	20 5.825
	21 7.025	22 8.625	23 10.23	24 11.83	25 14.23	26 17.43	27 20.63	28 23.83	29 28.63	30 35.03

CURRENT : 4.5 Amps

RAMP : .254 ms

DELAY : .245 ms

GROUPED LINEAR PROFILES
200m X 200m TRANSMITTER LOOP

COMPOSITE TIME SERIES
SIROTEM MARK 3 RECEIVER

TESLA-10 PTY. LTD.

BHP MINERALS
ANOMALY MY24
CENTRAL LOOP SIROTEM
VERTICAL COMPONENT

LINE 10500N

Scale 1 : 5000

10-04-93

figure

SOUNDING: loop1 : Vers 1
 Site MY27 : 9700N , 10100E.

loop1A1

* 207 ohm.m * 180 m.

* 207

180 m.

(1633 ohm.m) * 272 m.

(1633)

~~28.9 ohm.m~~ ~~32.5 m~~ * 452 m.

~~28.9~~

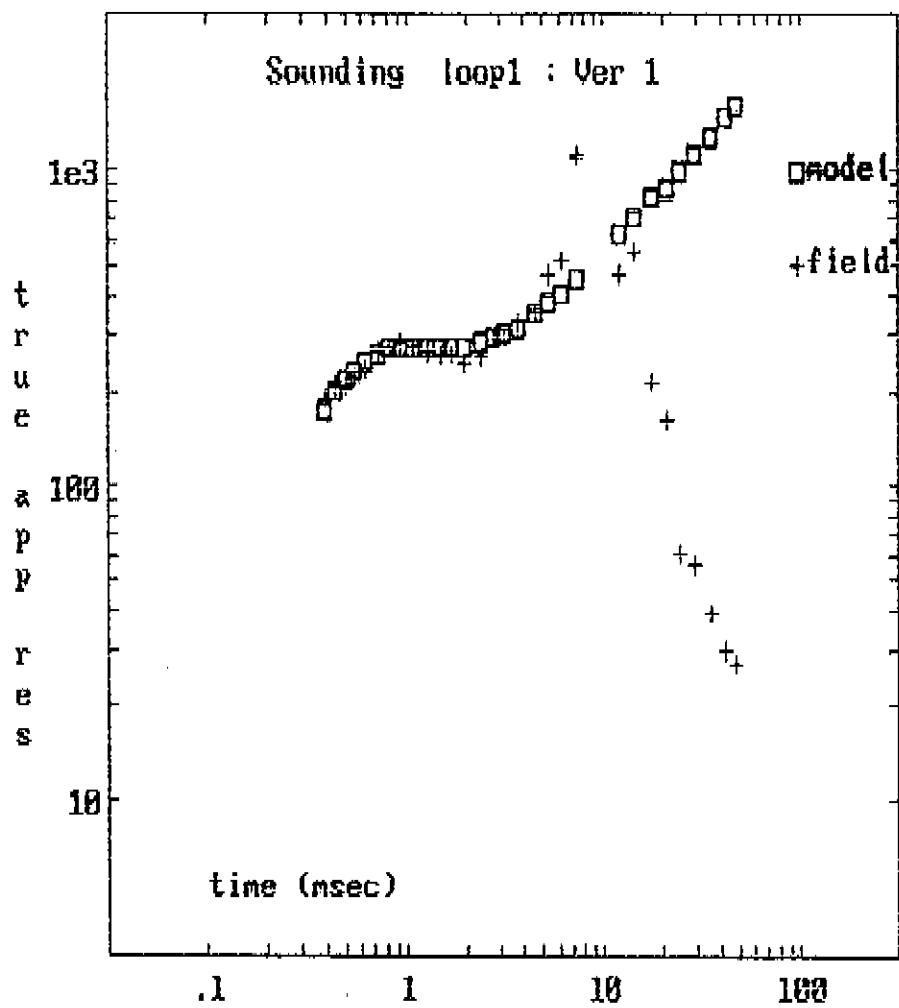
(8087 ohm.m)

(8087)

STD ERR= 3.5% : S= 2 S

E= 3%

S= 25



SOUNDING: loop2 : Vers 1
Site MY27 : 8700N . 11000E.

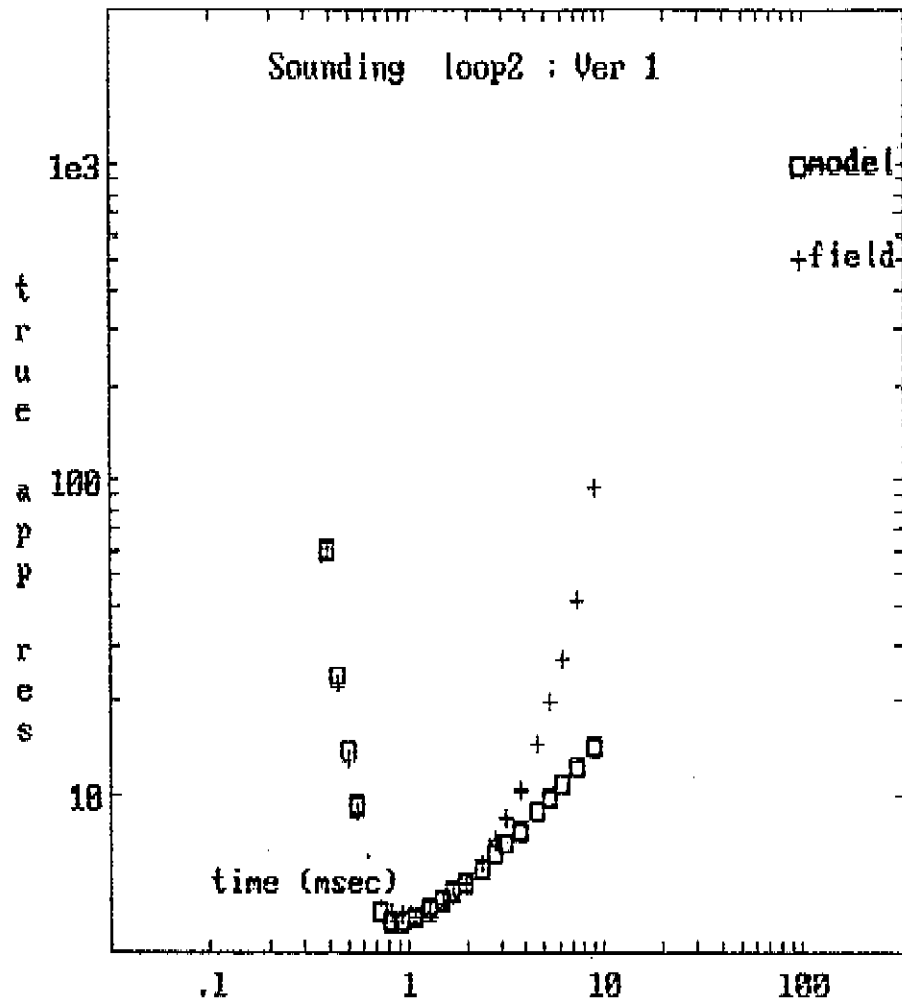
(192 ohm.m)	* 9.1 m.	9.1 m.
* 3.1 ohm.m	* 38.9 m.	
	* 47.8 m.	
(198 ohm.m)		

STD ERR= 2.8% : S= 12 S

loop2A1

(192)
* 3.1
(198)

E= 3%
S= 125



SOUNDING: loop3 : Vers 1
Site MY27 : 9700N , 11900E.

1009341

~~(291.0 ohm.m) # 19.8 m 38.8 m~~

~~(321)~~

(441 ohm.m) 446 m.

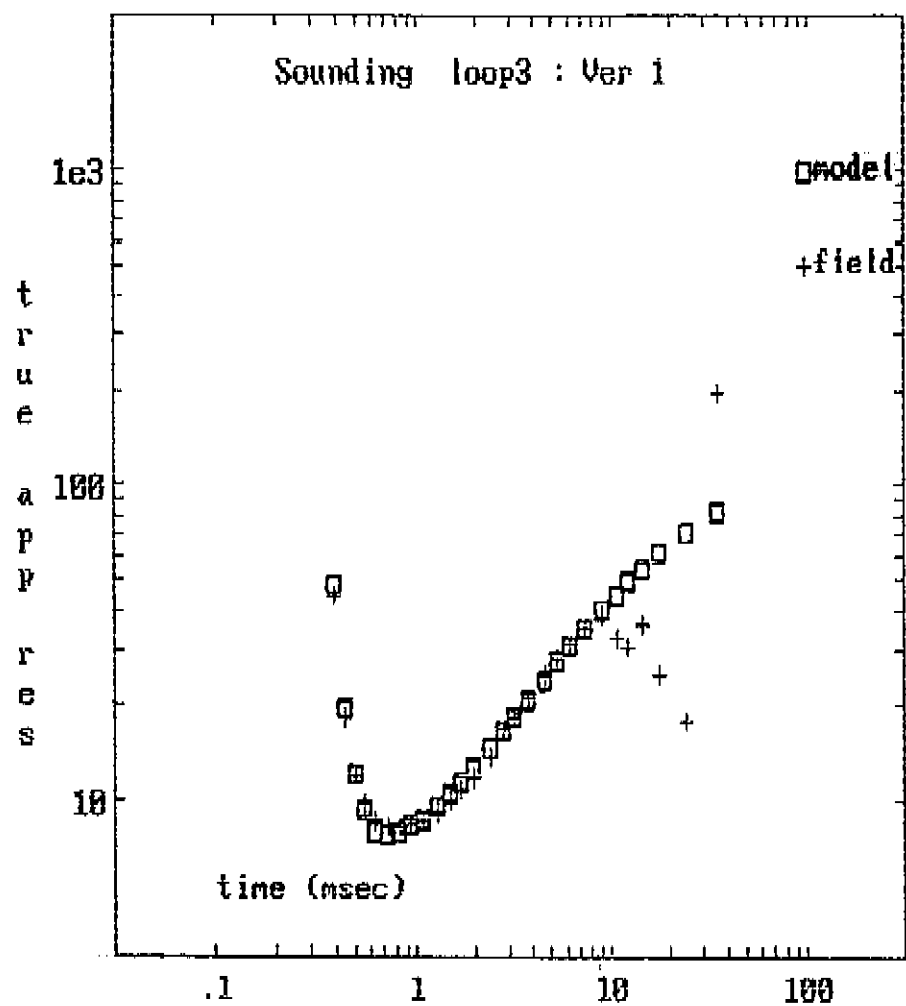
(441)

_____ (481 m.)
(119 ohm.m)

(119)

STD ERR= 4.5% : S= 8 S

E= 4%
S= 85



SOUNDING: loop4 : Vers 1
Site MY27 : 10100N, 10100E.

loop4A1

* 141 ohm.m * 84.2 m.

* 141

84.2 m.

(2662 ohm.m) * 298 m.

(2662)

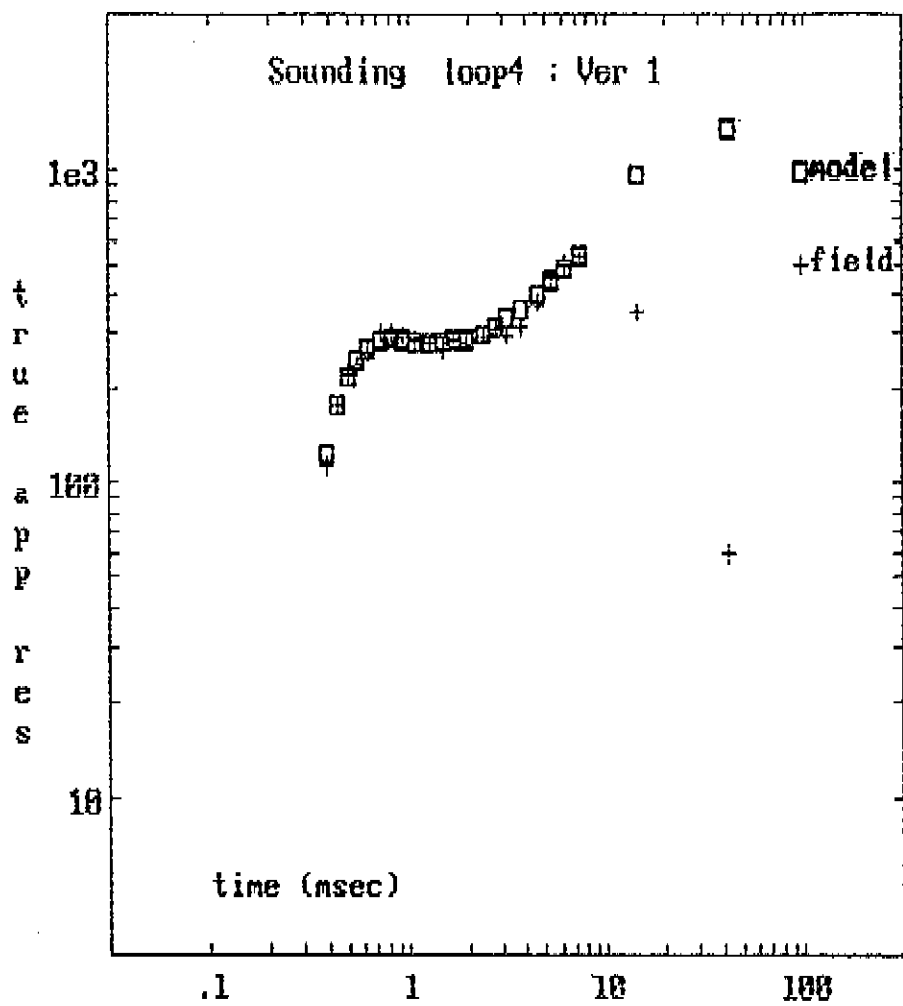
24.0 ohm.m 33.1 m. * 382 m.
*** ohm.m * 415 m.

24.0

STD ERR- 4.2% : S- 2 S

E= 4%

S= 25



SOUNDING: loop5 : Vers 1
Site MY27 : 10100N, 11000E.

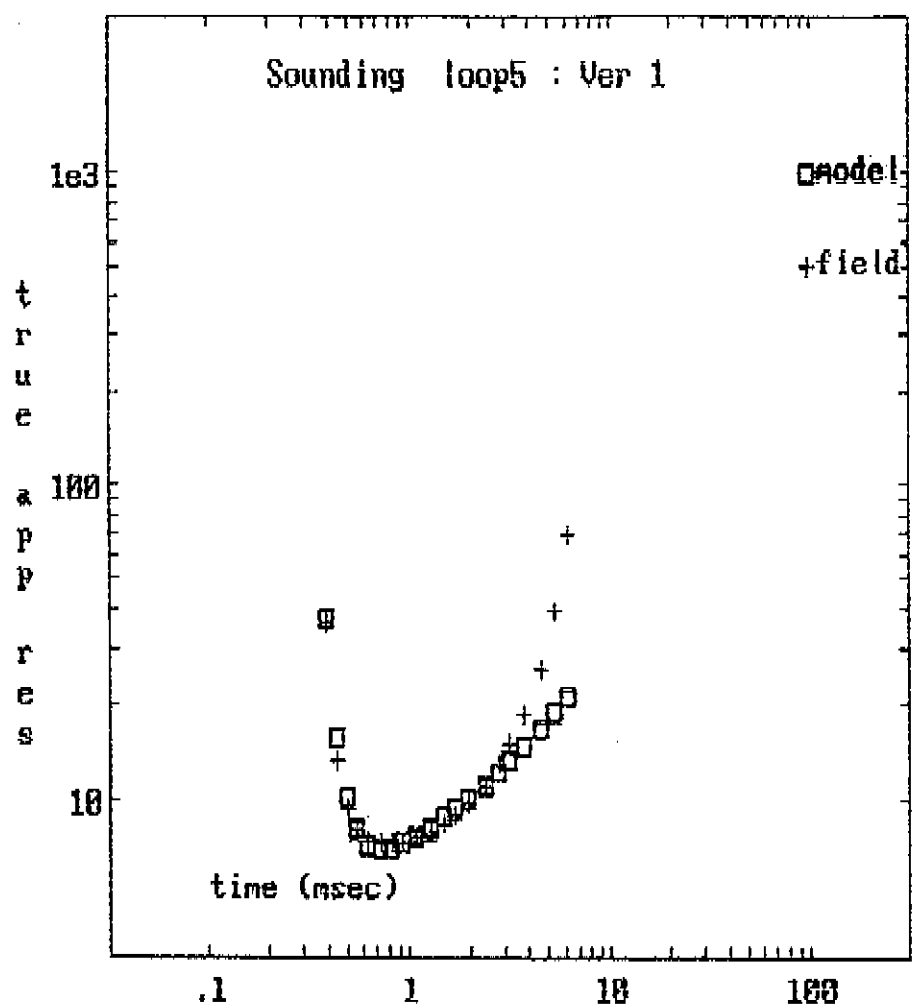
(239 ohm.m)	* 6.8 m	6.8 m.
* 6.2 ohm.m	* 59.0 m.	
		* 59.8 m.
253 ohm.m		

STD ERR= 3.6% : S= 9 S

loop5A1

(239)
* 6.2
253

E= 4%
S= 85



SOUNDING: loop6 : Vers 1
 Site MY27 : 10100N, 11900E.

10000A1

~~(249 ohm.m)~~ * ~~9.0 m~~ 9.0 m.
 * 7.0 ohm.m * 37.4 m.
 * 46.5 m.

~~(249)~~
 * 7.0

(170 ohm.m) (89.1 m.)

(170)

136 m.

48.9 ohm.m 171 m.

48.9

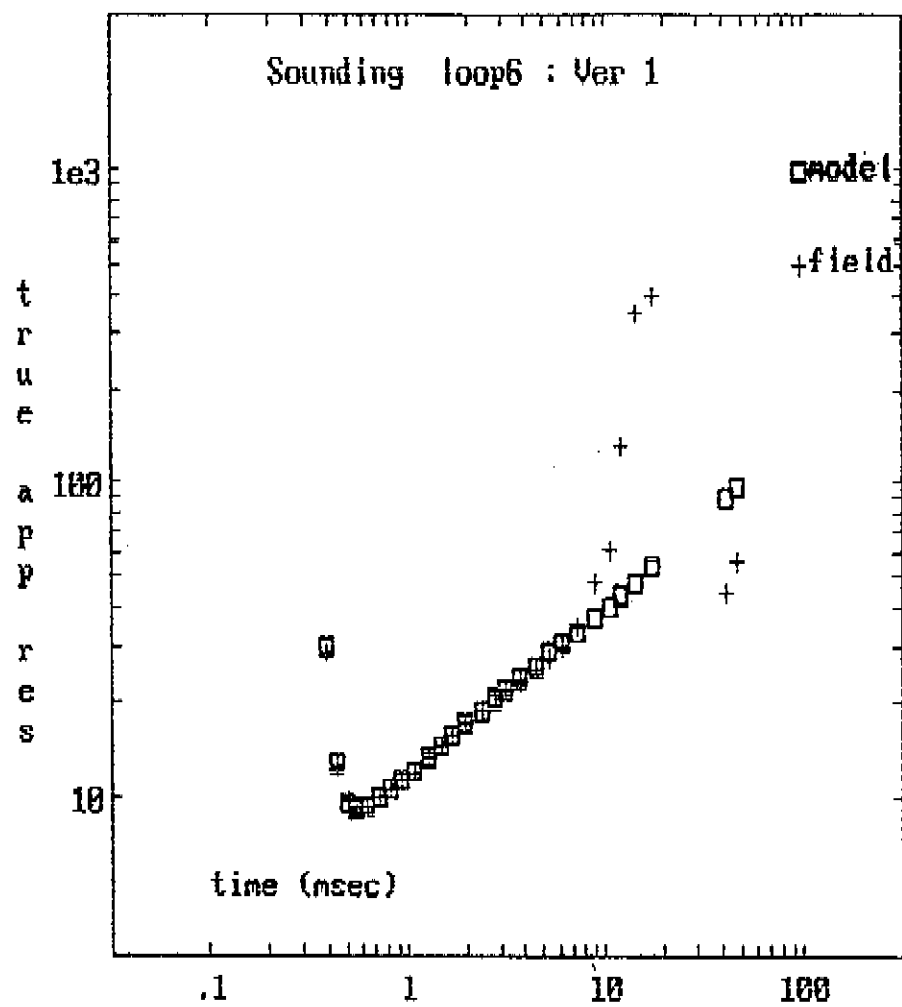
306 m.

(286 ohm.m)

(286)

STD ERR= 2.6% : S= 9 S

E= 3%
 S= 85



SOUNDING: loop7 : Vers 1
Site MY27 10500N, 10100E.

10097A1

* 134 ohm.m * 73.7 m.

* 134

* 73.7 m.

512 ohm.m * 208 m.

512

* 282 m.

121 ohm.m 155 m.

121

* 438 m.

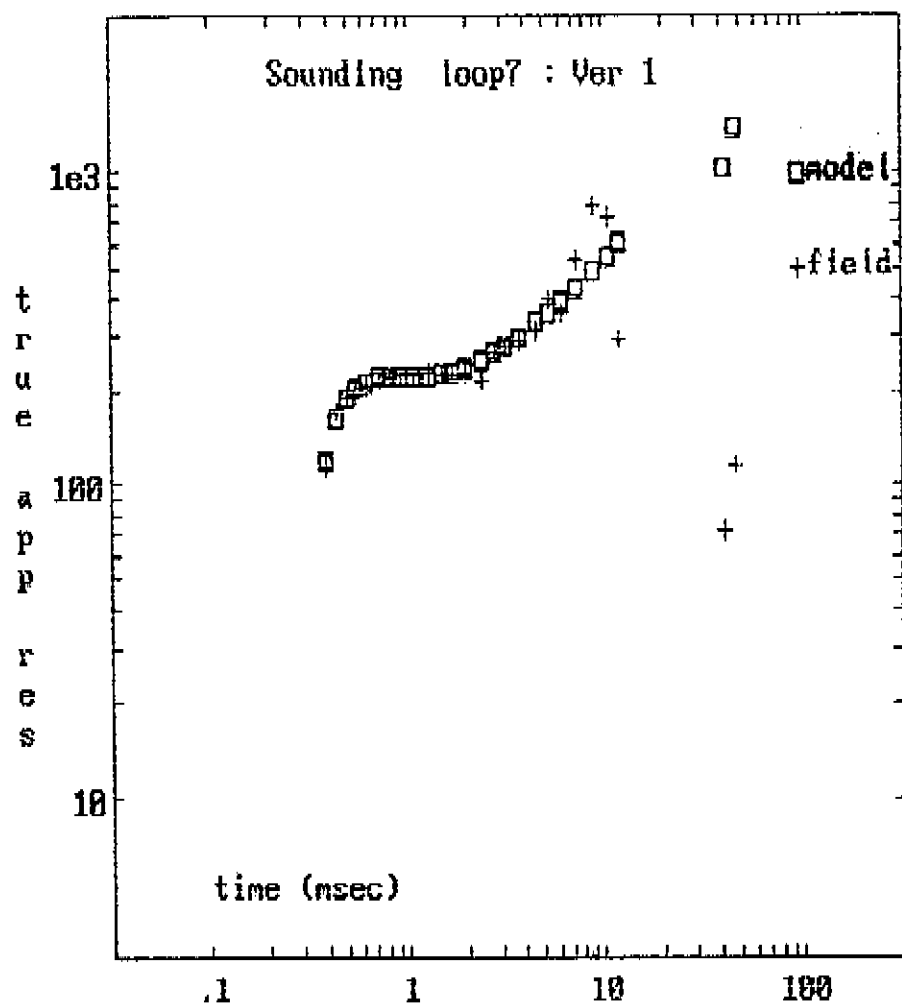
(4427 ohm.m)

(4427)

E= 5%

S= 25

STD ERR= 5.4% : S= 2 S



SOUNDING: loop8 : Vers 1
 Site MY27 : 10500N, 11000E.

loop8A1

* 271 ohm.m	* 39.2 m.
1.7 ohm.m	0.0 m. 30.0 m.
(1248 ohm.m)	

* 271
1.7
(1248)

STD ERR= 4.9% : S= 3 S.

E= 5%
 S= 35

