

CR 8262

**FIRST ANNUAL AND FINAL REPORT
FOR EL 8422 SURPRISE CREEK
PERIOD ENDING 20 DECEMBER 1994**

I R BROWN

MARCH 1994⁵

**Sheet References:
Wallhallow SE 53-7
Calvert Hills SE 53-8**

Tenement EL 8422 is held by:

**BHP MINERALS PTY LTD
Level 3
3 Plain Street
EAST PERTH WA 6004**

CR8262/DW

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SUMMARY

Exploration Licence 8422 is located in the south-eastern part of the McArthur Basin and adjacent to the Emu Fault. The area is considered prospective for sediment-hosted base metal mineralisation in the mid-Proterozoic stratigraphy.

14 TEM soundings were completed adjacent to the Emu Fault. No bedrock conductors were identified beneath the highly conductive Cretaceous cover.

No further work is recommended and the tenement is to be surrendered.

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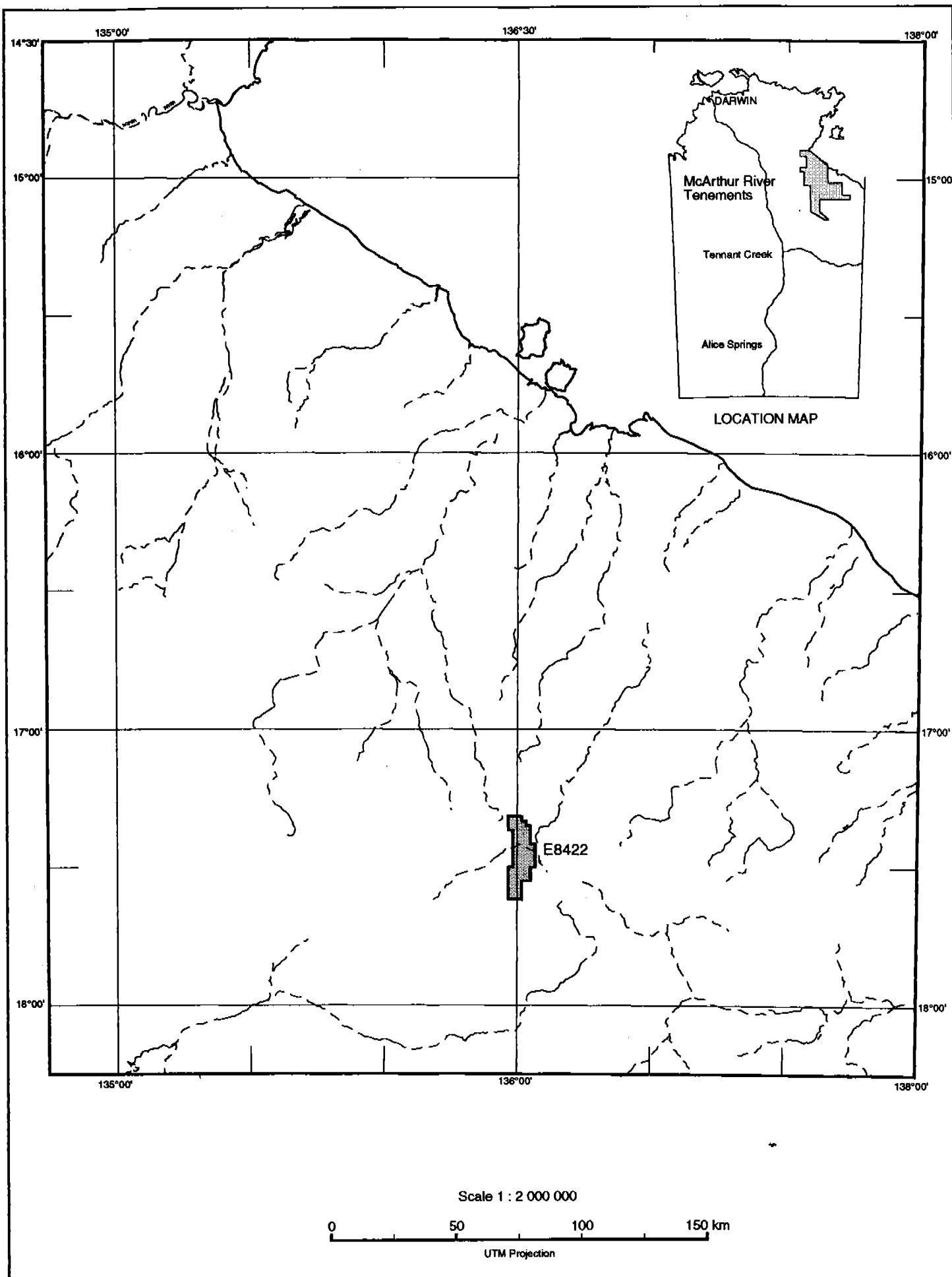
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1. TEM Soundings - Survey Specifications



Prepared : I. Brown



Exploration - BHP Minerals
BHP Minerals Pty. Ltd., A.C.N. 008 094 782

Centre : Perth

Drawn : S.J. Shephard

McARTHUR RIVER PROJECT **EL 8422 LOCATION PLAN**

Drg. No. : A4-5696

Date : 13.3.95

FIGURE 1

Revised :

1. **INTRODUCTION**

This report details the work carried out by BHP Minerals on Exploration Licence (EL) 8422 Surprise Creek for the twelve month period ending 20 December 1994. This is the first and final annual report.

Work included 14 ground transient electromagnetic (TEM) soundings and associated access work. The geophysical work was designed to test for conductive bedrock horizons adjacent to the Emu Fault.

The tenement is located in the south-eastern part of the mid-Proterozoic McArthur Basin. The area is considered prospective for sediment-hosted base metal mineralisation in Proterozoic stratigraphy adjacent to the Emu Fault.

1.1 **Location and Access**

EL 8422 is located approximately 350 km northeast of Tennant Creek, Northern Territory. The tenement is situated within the Creswell Downs pastoral lease. The area is accessed via good station tracks from the sealed Tablelands Highway.

1.2 **Tenement Status**

BHP Minerals applied for EL 8422 on 24 September 1993 and it was granted on 24 December 1993 for a period of six years. The first year covenant was set at \$37,150. Actual expenditure for the first year of tenure totalled \$14,593 (see Appendix 1).

1.3 Previous Work

EL 8422 has been previously explored for diamonds by Ashton Mining Limited as part of EL 4359 (1989). Ashton completed airborne and ground magnetic surveys, Thematic Mapper interpretation and some shallow drilling further south.

MIM Exploration were the previous licence holder (Bruce, 1993) and they completed soil, stream and lag sampling, an airborne EM survey, and ground EM, IP and magnetics. The geophysical work delineated the Emu Fault zone and some weakly conductive zones.

1.4 Rehabilitation

Grid lines utilised for the TEM soundings were cleared by bulldozer. Natural regrowth is expected to provide sufficient rehabilitation of the grid lines. The area will be monitored.

2. GEOLOGY

The only published geological maps covering EL 8422 are the Wallhallow and Calvert Hills 1:250,000 sheet and explanatory notes (Plumb & Rhodes, 1964; Ahmad and Wygralak, 1989).

There are no Proterozoic exposures within EL 8422. Westmoreland Conglomerate of the Tawallah Group crops out approximately 5 km south of the tenement.

EL 8422 comprises Cretaceous siltstone and sandstone, and Cainozoic laterite and residual soil.

3. **GEOPHYSICS**

Open File and government aeromagnetic data indicate the southern extension of the Emu Fault is situated immediately west of EL 8422. The McArthur River Mine is located approximately 130 km to the north and adjacent to the Emu Fault.

3.1 **EM Soundings**

14 TEM soundings were completed across to the Emu Fault. These soundings were part of a much larger survey on adjoining tenements held by BHP Minerals.

Grid lines were cleared with a bulldozer from Wallhallow Station (Heytesbury Pastoral Company) and this work was supervised by a BHP field assistant. The geophysical work was contracted to Geoterrex Pty Ltd, Sydney.

Survey specifications are listed in Table 1. Sounding site locations are plotted on Figure 2. Apparent resistivity plots and inversion results are presented in Appendix 2.

Inversions were calculated using GRENDL software. These inversions clearly show the Cretaceous cover to be about 60 m thick and present as two distinct electrical horizons. There are no significant basement conductors.

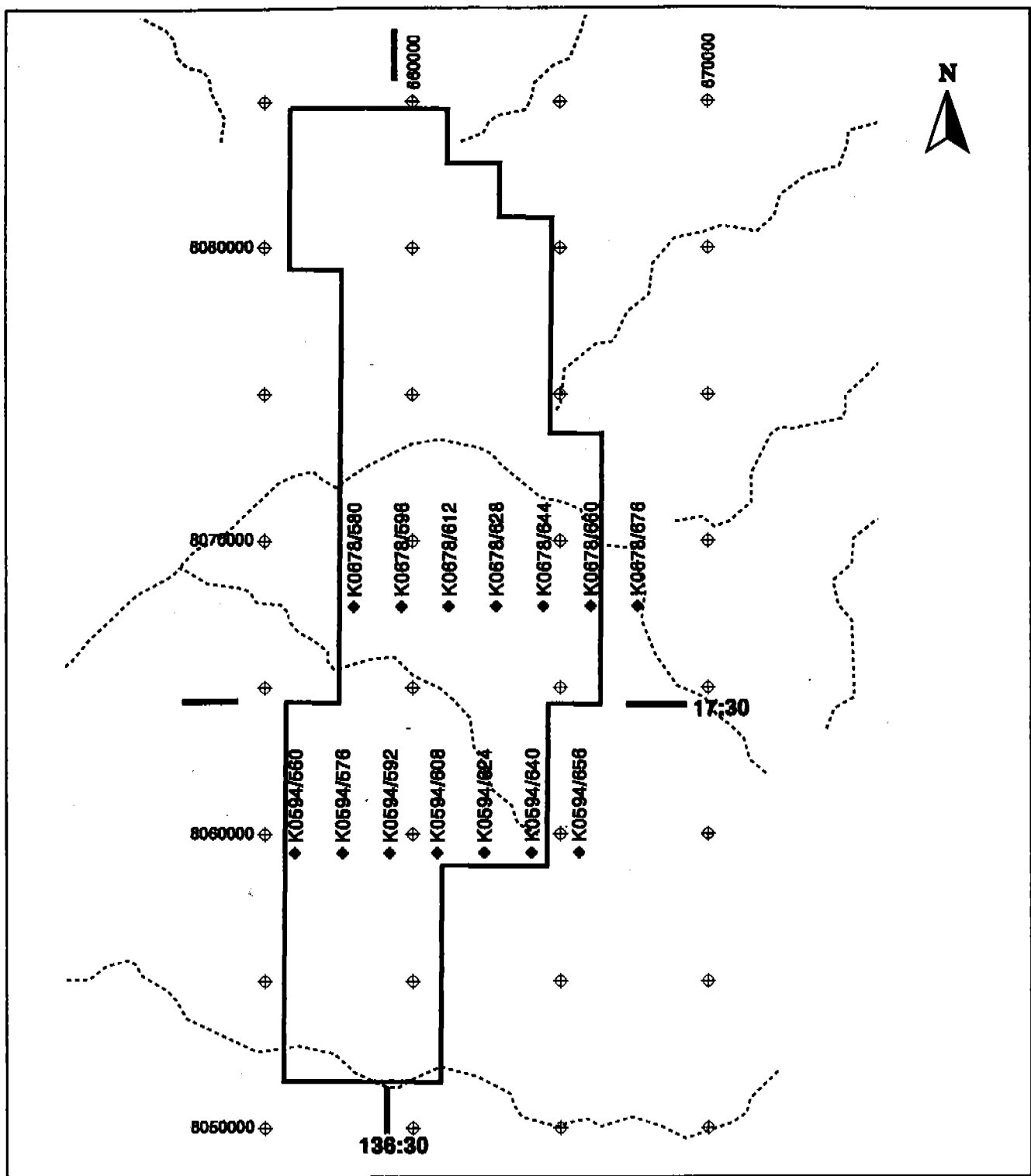
4. **CONCLUSIONS AND RECOMMENDATIONS**

TEM soundings have been used to test an area of Phanerozoic cover adjacent to the Emu Fault. No basement conductors were identified. EL 8422 is to be surrendered.

TABLE 1

EM SOUNDINGS - SURVEY SPECIFICATIONS

EL	:	8422
Contractor	:	Geoterrex Pty Ltd
Instrument	:	Geonics PROTEM receiver. TEM37 crystal synchronized transmitter
Loop size/configuration	:	300 x 300 m/fixed
Base frequency	:	25 and 6.25 Hz. Standard times N=20
Receiver spacing/components	:	300 m/Z only
Date	:	June 1994
Duration	:	3 days production
Coverage	:	1.6 km spacing. Both in- and out-of-loop readings
Total	:	14 soundings



LEGEND

- ◆ PROTEM Sounding sites
- Drainage
- ⊕ AMG North
- ⊕ AMG East
- Tenement Outline

**EL8422 SURPRISE CREEK
TEM Sounding Site Locations
FIGURE 2**

5. **REFERENCES**

AHMAD, M. and WYGRALAK, A.S., 1989. Calvert Hills SE53-8. Explanatory Notes and Mineral Deposit Data Sheets. 1:250,000 Metallogenic Map Series. NT. Geol. Surv.

ASHTON MINING LIMITED, 1989. Final Report EL 4359. 13 September 1983 to 12 September 1989. NTGS CR 89/715.

BRUCE, I.N., 1993. Exploration Licence 7219 "Creswell" NT. Final Report. MIM Exploration Pty Ltd Technical Report No. 1975. Unpublished. NTGS CR93/785.

PLUMB, K.A. and RHODES, J.M., 1964. Wallhallow NT 1:250,000 Geological Series. Bur. Min. Resour. Aust. explan. notes SE/53-7.

APPENDIX 1

EXPENDITURE STATEMENT

SURPRISE CREEK - E8422

24 December 1993 to 20 December 1994

Wages and Salaries	\$481
Field Support	343
Equipment	2,950
Geophysics	8,183
Office Expenses	128
Computer Expenses	76
Sub-Total	12,161
20% of Total for Corporate Overheads	2,432
TOTAL	\$14,593

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APPENDIX 2

EM DATA

K0678/580

GRENDL Inversion results

Job # : 3-825 Date : 10.11.94
Program : GRENDL Version : July, 1992

Client : BHP

TEM File: 170694.TEM

Loop : 148

Line : 678N Station : 580.000

The initial model is:

I	Resistivity	Thickness	Depth
1	10.00	15.00	
2	500.0	500.0	15.00
3	1500.		515.0

Convergence to final model

Standard error = 20.78 percent
Standard error = 2.75 percent
Standard error = 2.59 percent
Standard error = 2.23 percent
Standard error = 1.98 percent
Standard error = 1.92 percent
Standard error = 1.88 percent
Standard error = 1.85 percent
Standard error = 1.82 percent
Standard error = 1.80 percent
Standard error = 1.79 percent
Standard error = 1.78 percent
Standard error = 1.77 percent
Standard error = 1.76 percent
Standard error = 1.76 percent
Standard error = 1.75 percent
Standard error = 1.75 percent
Standard error = 1.74 percent
Standard error = 1.74 percent
Standard error = 1.73 percent
Standard error = 1.73 percent

Final model :

"TEM File: 170694.TEM Loop : 148 Line : 678N Station : 580.000"

I	Resistivity	Thickness	Depth
1	11.34	15.48	
2	510.0	558.6	15.48
3	2510.		574.0

Error structure of fitted model

Chnl	DELAY Time (ms)	Apparent Resistivity Observed Calculated	Observed DB/DT (nV/sq.m)	Calculated DB/DT (nV/sq.m)	Weighted percent Symmetric Error
1	0.352	50.8 50.0	758.8	773.5	-1.9
2	0.428	56.5 56.5	462.0	461.3	0.1
3	0.525	64.2 65.0	259.5	255.0	1.8
4	0.647	73.6 74.5	139.1	136.8	1.6
5	0.803	85.0 85.7	71.54	70.72	1.2
6	1.003	98.7 98.7	35.21	35.18	0.1
7	1.258	116.4 113.7	16.93	17.09	-0.9
8	1.582	132.2 131.2	8.023	8.114	-1.1
9	1.997	152.0 151.0	3.766	3.802	-0.9
10	2.525	174.6 174.5	1.752	1.753	-0.1
11	3.197	200.7 201.3	0.8049	0.8014	0.4
12	4.055	232.4 233.1	0.3627	0.3612	0.4
13	5.148	266.9 270.0	0.1645	0.1617	1.7
14	6.543	315.8 313.6	0.7101E-01	0.7170E-01	-1.0
15	8.323	355.6 364.7	0.3279E-01	0.3158E-01	3.8
16	10.592	432.9 424.1	0.1344E-01	0.1386E-01	-3.1
17	13.490	427.6 493.9	0.7520E-02	0.6057E-02	0.0
18	17.188	575.4 574.4	0.2640E-02	0.2647E-02	0.0
19	21.903	1271.0 668.3	0.4400E-03	0.1153E-02	0.0

Mean percent Symmetric error = 1.48

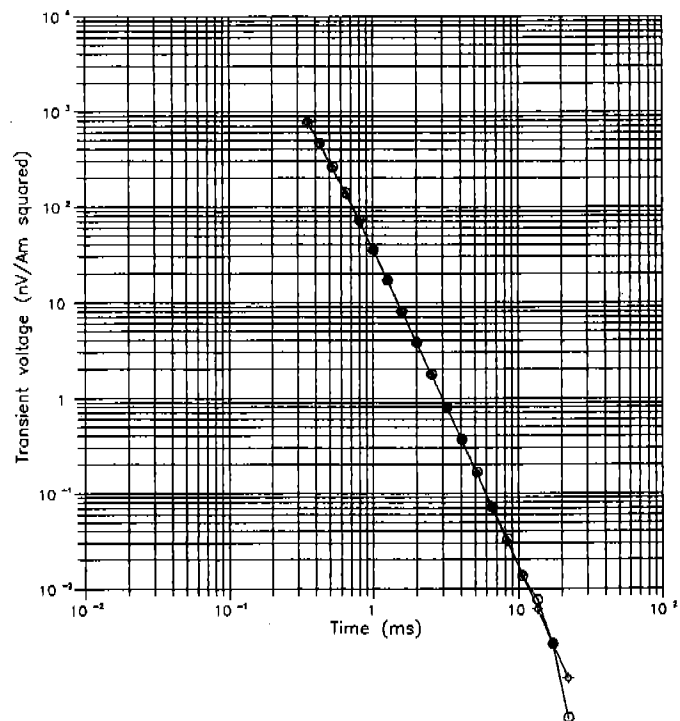
Maximum percent Symmetric error = 3.77

Maximum Symmetric error occurred at observation 15

Average predicted residual error (APRE) = 2.35 percent

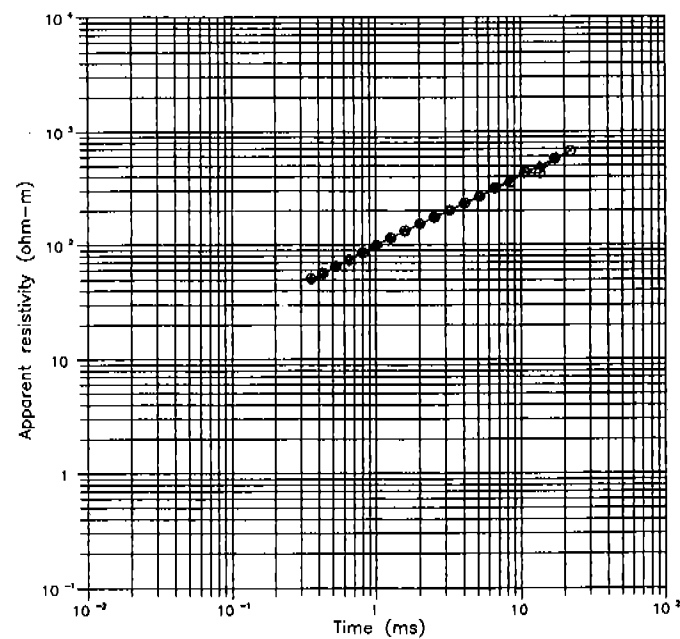
Transient decays

6.25 Hz data
 Loop : 148
 Station : 678N, 580

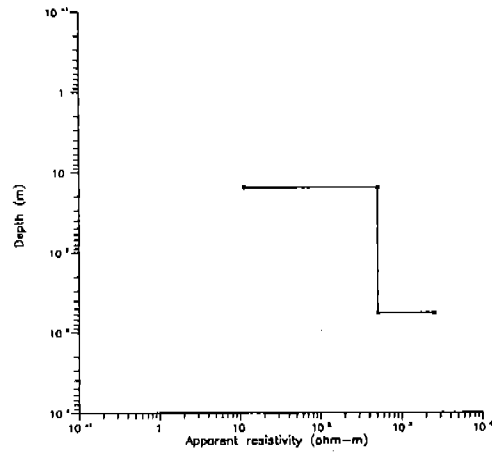


Apparent resistivity

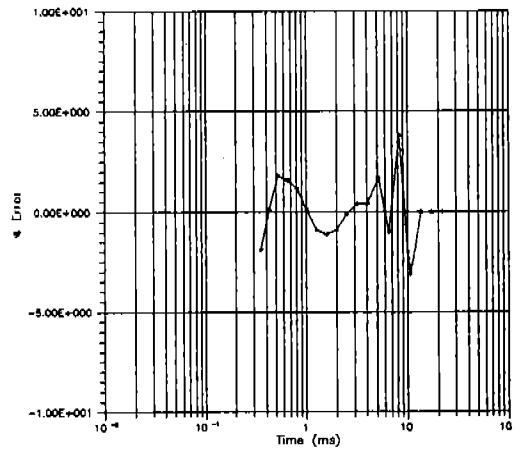
6.25 Hz data
 Loop : 148
 Station : 678N, 580



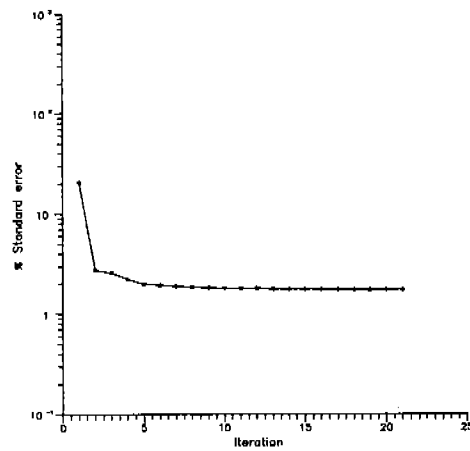
Layered-earth model
 6.25 Hz data
 Loop : 148
 Station : 678N, 580



Error structure
 6.25 Hz data
 Loop : 148
 Station : 678N, 580



Standard error per iteration
 6.25 Hz data
 Loop : 148
 Station : 678N, 580



K0678/596

GRENDL Inversion results

Job # : 3-825 Date : 10.11.94
Program : GRENDL Version : July, 1992

Client : BHP

TEM File: 170694.TEM

Loop : 149

Line : 678N Station : 596.000

The initial model is:

I	Resistivity	Thickness	Depth
1	25.00	5.000	5.000
2	1.000	5.000	10.00
3	5000.	1500.	1510.
4	2000.		

Convergence to final model

Standard error = 164.96 percent
Standard error = 17.18 percent
Standard error = 8.22 percent
Standard error = 8.21 percent
Standard error = 8.19 percent
Standard error = 8.17 percent
Standard error = 8.17 percent

Final model :

"TEM File: 170694.TEM Loop : 149 Line : 678N Station : 596.000"

I	Resistivity	Thickness	Depth
1	25.36	4.885	4.885
2	1.407	3.523	8.408
3	5397.	1524.	1533.
4	2011.		

Error structure of fitted model

Chnl	DELAY Time (ms)	Apparent Resistivity	Observed DB/DT (nV/sq.m)	Calculated DB/DT (nV/sq.m)	Weighted percent Symmetric Error
1	0.352	15.8	12.8	2354.	-11.6
2	0.428	17.4	16.4	1657.	-4.8
3	0.525	19.6	20.0	1065.	1.7
4	0.647	22.5	24.0	628.8	7.0
5	0.803	26.6	28.7	340.4	9.9
6	1.003	32.1	34.7	167.7	10.4
7	1.258	39.9	42.3	76.14	8.1
8	1.582	50.7	51.7	32.23	2.8
9	1.997	65.4	63.7	12.98	-3.9
10	2.525	84.0	78.8	5.168	-9.4
11	3.197	105.1	97.8	2.105	-10.6
12	4.055	127.9	121.8	0.8837	-7.3
13	5.148	152.7	151.7	0.3789	-0.9
14	6.543	181.1	189.1	0.1630	6.4
15	8.323	220.8	234.9	0.6695E-01	0.0
16	10.592	259.8	290.2	0.2888E-01	0.0
17	13.490	353.2	356.2	0.1001E-01	0.0
18	17.188	426.0	433.9	0.4140E-02	0.0
19	21.903	711.6	524.1	0.1050E-02	0.0

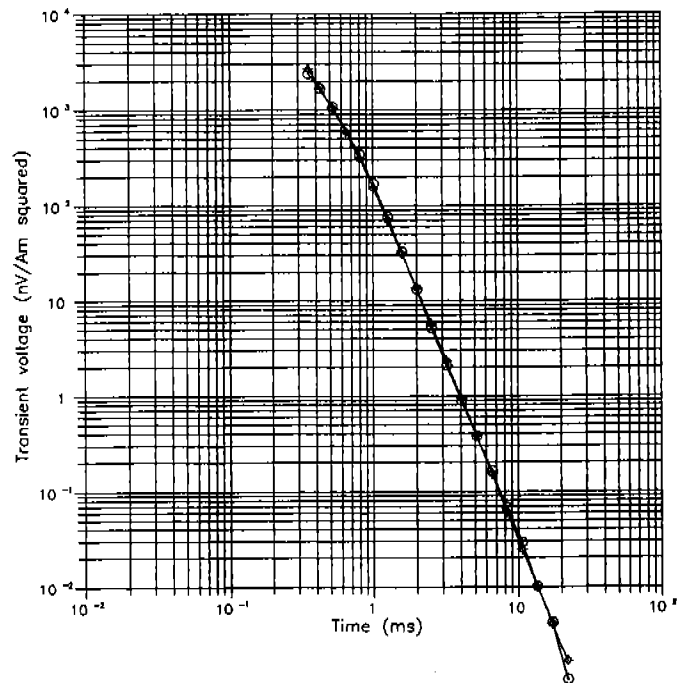
Mean percent Symmetric error = 6.49

Maximum percent Symmetric error = 11.59

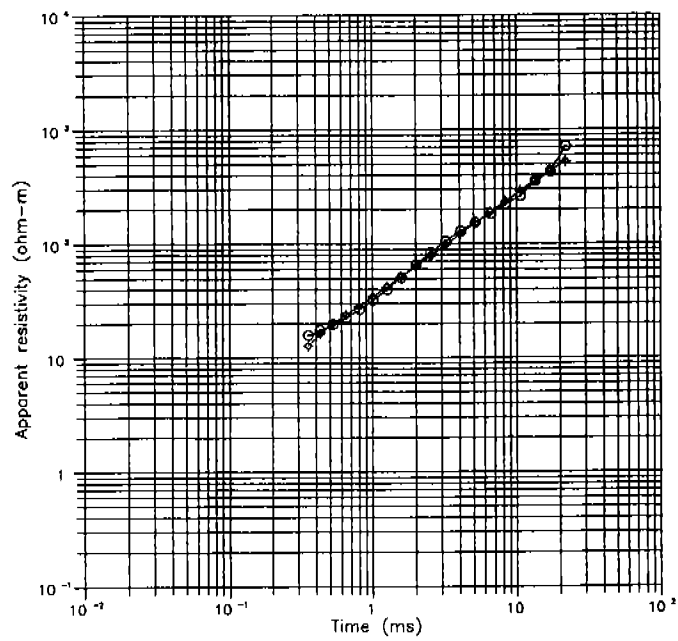
Maximum Symmetric error occurred at observation 1

Average predicted residual error (APRE) = 43.92 percent

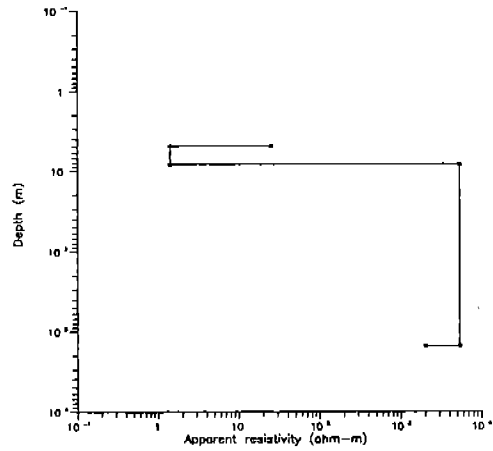
Transient decays
6.25 Hz data
Loop : 149
Station : 678N, 596



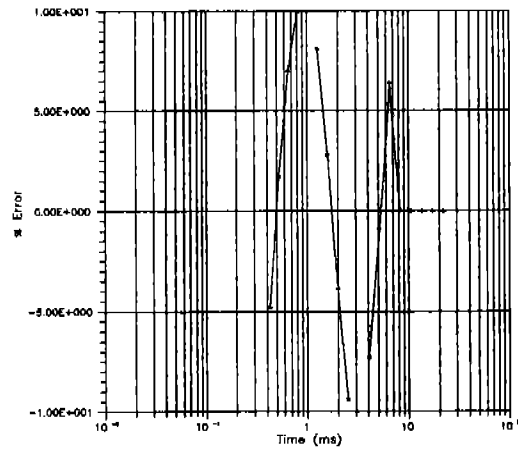
Apparent resistivity
6.25 Hz data
Loop : 149
Station : 678N, 596



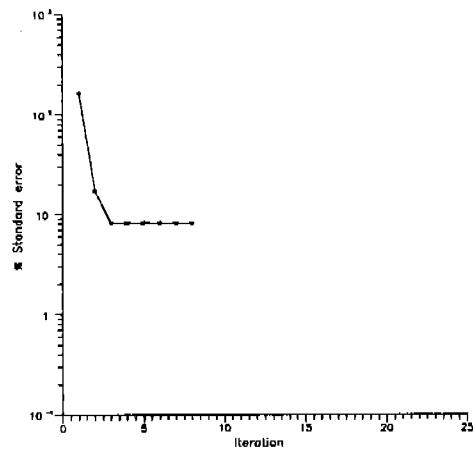
Layered-earth model
 6.25 Hz data
 Loop : 149
 Station : 678N, 596



Error structure
 6.25 Hz data
 Loop : 149
 Station : 678N, 596



Standard error per iteration
 6.25 Hz data
 Loop : 149
 Station : 678N, 596



K0678/612

GRENDL Inversion results

Job # : 3-825 Date : 10.11.94
Program : GRENDL Version : July, 1992

Client : BHP

TEM File: 180694.TEM

Loop : 150

Line : 678N Station : 612.000

The initial model is:

I	Resistivity	Thickness	Depth
1	25.00	25.00	25.00
2	50.00	200.0	225.0
3	500.0		

Convergence to final model

Standard error = 4.94 percent
Standard error = 2.43 percent
Standard error = 2.27 percent
Standard error = 2.24 percent
Standard error = 2.22 percent
Standard error = 2.19 percent
Standard error = 2.16 percent
Standard error = 2.15 percent
Standard error = 2.13 percent
Standard error = 2.12 percent
Standard error = 2.11 percent
Standard error = 2.10 percent
Standard error = 2.09 percent
Standard error = 2.09 percent
Standard error = 2.08 percent
Standard error = 2.07 percent
Standard error = 2.07 percent
Standard error = 2.06 percent
Standard error = 2.06 percent
Standard error = 2.06 percent
Standard error = 2.05 percent

Final model :

"TEM File: 180694.TEM Loop : 150 Line : 678N Station : 612.000"

I	Resistivity	Thickness	Depth
1	27.89	23.44	23.44
2	46.34	209.8	233.2
3	875.8		

Error structure of fitted model

Chnl	DELAY Time (ms)	Apparent Resistivity		Observed DB/DT (nV/sq.m)	Calculated DB/DT (nV/sq.m)	Weighted percent Symmetric Error
		Observed	Calculated			
1	0.352	36.6	36.7	1111.	1106.	0.5
2	0.428	36.9	37.1	779.3	773.6	0.7
3	0.525	37.3	37.6	519.8	516.7	0.6
4	0.647	38.3	38.0	332.4	335.7	-1.0
5	0.803	39.2	38.7	206.8	210.7	-1.9
6	1.003	40.2	39.6	124.1	126.5	-2.0
7	1.258	41.3	41.1	72.46	73.05	-0.8
8	1.582	42.8	43.1	41.07	40.59	1.2
9	1.997	44.9	45.8	22.38	21.73	3.0
10	2.525	48.2	49.3	11.64	11.25	3.4
11	3.197	53.5	53.8	5.701	5.645	1.0
12	4.055	61.5	59.5	2.618	2.745	-4.7
13	5.148	73.5	66.7	1.126	1.299	0.0
14	6.543	91.3	75.6	0.4527	0.5996	0.0
15	8.323	119.0	86.6	0.1687	0.2710	0.0
16	10.592	160.8	100.0	0.5922E-01	0.1205	0.0
17	13.490	233.8	116.2	0.1858E-01	0.5288E-01	0.0
18	17.188	416.7	135.9	0.4280E-02	0.2295E-01	0.0

Mean percent Symmetric error = 1.74

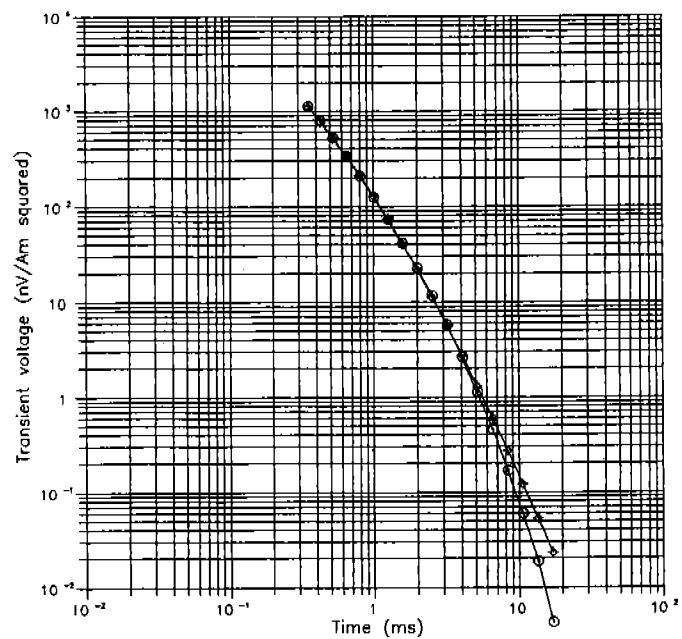
Maximum percent Symmetric error = 4.70

Maximum Symmetric error occurred at observation 12

Average predicted residual error (APRE) = 3.65 percent

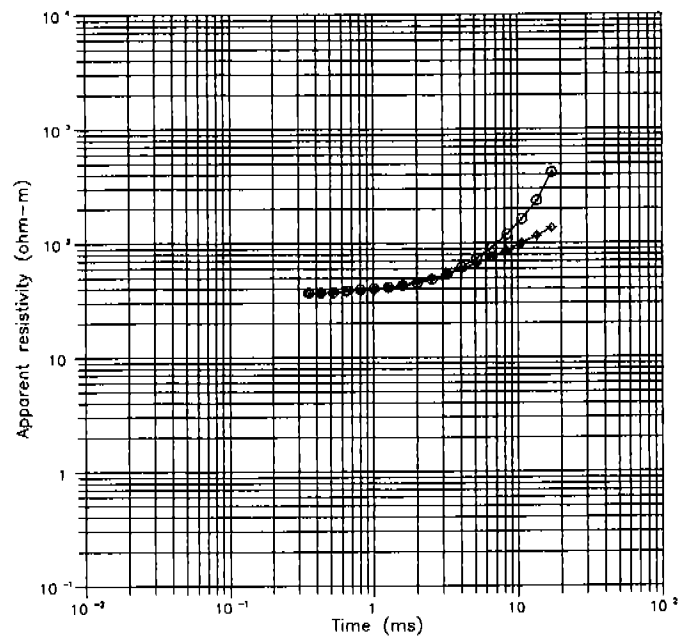
Transient decays

6.25 Hz data
 Loop : 150
 Station : 678N, 612

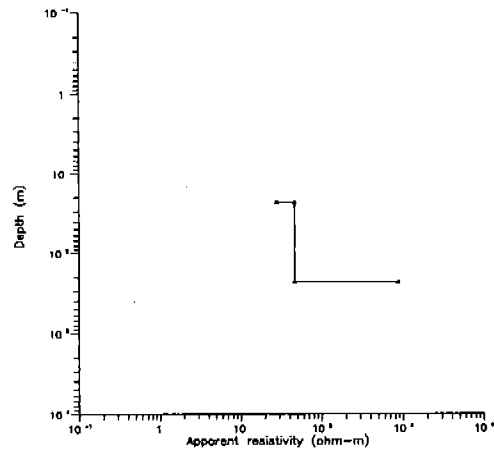


Apparent resistivity

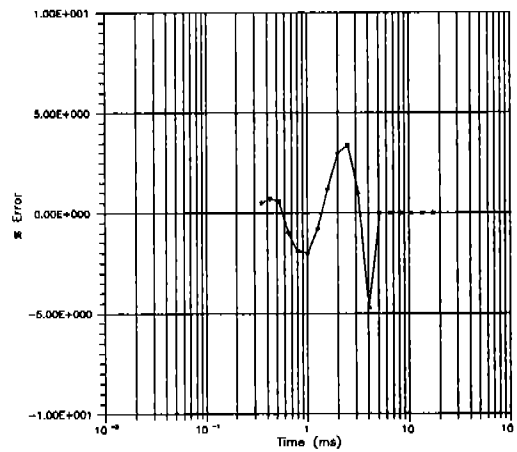
6.25 Hz data
 Loop : 150
 Station : 678N, 612



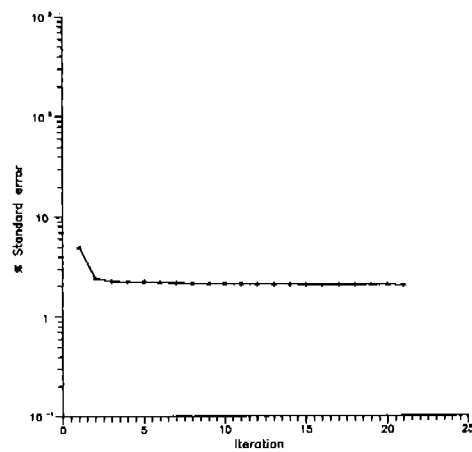
Layered-earth model
 6.25 Hz data
 Loop : 150
 Station : 678N, 612



Error structure
 6.25 Hz data
 Loop : 150
 Station : 678N, 612



Standard error per iteration
 6.25 Hz data
 Loop : 150
 Station : 678N, 612



K0678/628

GRENDL Inversion results

Job # : 3-825 Date : 10.11.94
 Program : GRENDL Version : July, 1992

Client : BHP

TEM File: 180694.TEM

Loop : 151

Line : 678N Station : 628.000

The initial model is:

I	Resistivity	Thickness	Depth
1	10.00	25.00	25.00
2	500.0	75.00	100.0
3	2500.	250.0	350.0
4	50.00	250.0	600.0
5	5000.		

Convergence to final model

Standard error = 27.95 percent
 Standard error = 7.32 percent
 Standard error = 6.72 percent
 Standard error = 6.64 percent
 Standard error = 6.62 percent
 Standard error = 6.58 percent
 Standard error = 6.56 percent
 Standard error = 6.55 percent
 Standard error = 6.55 percent
 Standard error = 6.55 percent
 Standard error = 6.55 percent
 Standard error = 6.55 percent

Final model :

"TEM File: 180694.TEM Loop : 151 Line : 678N Station : 628.000"

I	Resistivity	Thickness	Depth
1	10.98	28.22	28.22
2	498.3	83.38	111.6
3	2524.	366.5	478.1
4	66.41	224.1	702.2
5	4991.		

Error structure of fitted model

Error Structure of Fitted Model						
Chnl	DELAY Time (ms)	Apparent Resistivity		Observed DB/DT (nV/sq.m)	Calculated DB/DT (nV/sq.m)	Weighted percent Symmetric Error
		Observed	Calculated			
1	0.352	21.5	18.9	1868.	2071.	-10.3
2	0.428	22.8	22.1	1303.	1341.	-2.9
3	0.525	24.9	25.7	831.2	802.5	3.5
4	0.647	28.1	29.9	488.0	452.6	7.5
5	0.803	32.7	34.8	261.3	241.8	7.7
6	1.003	39.4	40.8	127.6	121.6	4.8
7	1.258	48.3	48.2	58.31	58.55	-0.4
8	1.582	59.0	56.8	25.99	27.41	-5.3
9	1.997	69.9	66.6	11.81	12.65	-6.9
10	2.525	79.3	77.0	5.622	5.871	-4.3
11	3.197	87.2	87.2	2.777	2.775	0.1
12	4.055	94.5	96.8	1.386	1.337	3.6
13	5.148	102.6	106.0	0.6854	0.6523	5.0
14	6.543	114.5	115.9	0.3234	0.3176	1.8
15	8.323	131.6	127.2	0.1452	0.1528	-5.1
16	10.592	162.3	140.8	0.5842E-01	0.7228E-01	0.0
17	13.490	216.0	157.8	0.2092E-01	0.3351E-01	0.0
18	17.188	335.0	178.7	0.5940E-02	0.1523E-01	0.0
19	21.903	388.7	205.4	0.2600E-02	0.6763E-02	0.0

Mean percent Symmetric error = 4.75

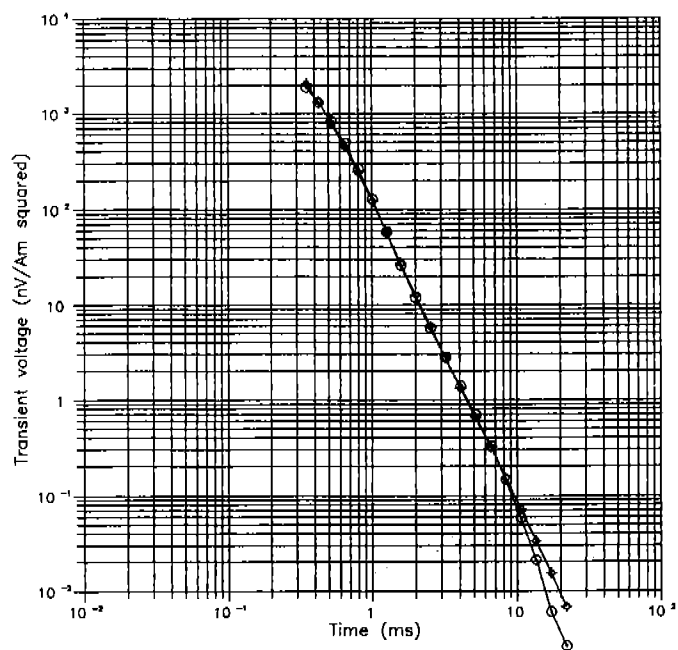
Maximum percent Symmetric error = 10.32

Maximum Symmetric error occurred at observation 1

Average predicted residual error (APRE) = 10.62 percent

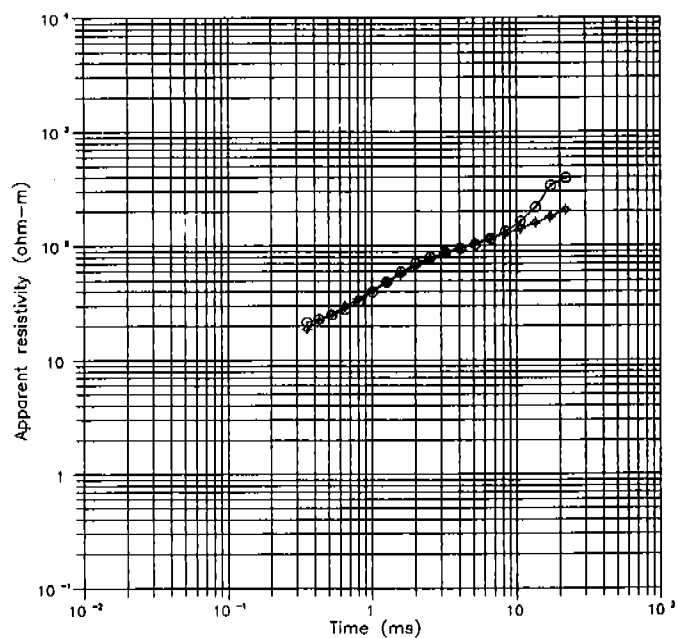
Transient decays

6.25 Hz data
 Loop : 151
 Station : 678N, 628

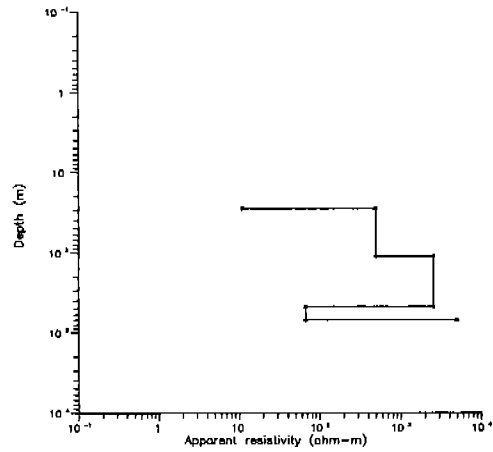


Apparent resistivity

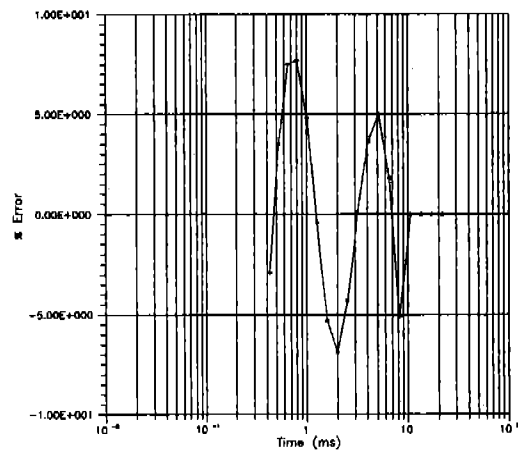
6.25 Hz data
 Loop : 151
 Station : 678N, 628



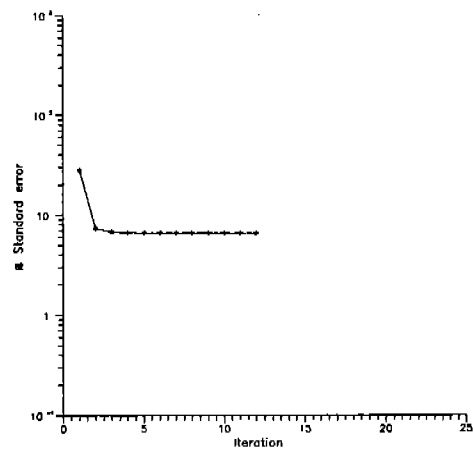
Layered-earth model
 6.25 Hz data
 Loop : 151
 Station : 678N, 628



Error structure
 6.25 Hz data
 Loop : 151
 Station : 678N, 628



Standard error per iteration
 6.25 Hz data
 Loop : 151
 Station : 678N, 628



K0678/644

GRENDL Inversion results

Job # : 3-825 Date : 10.11.94
 Program : GRENDL Version : July, 1992

Client : BHP

TEM File: 180694.TEM

Loop : 152

Line : 678N Station : 644.000

The initial model is:

I	Resistivity	Thickness	Depth
1	250.0	40.00	40.00
2	0.1000E-02	0.1000E-02	40.00
3	1000.		

Convergence to final model

Standard error = 360.63 percent
 Standard error = 161.47 percent
 Standard error = 25.93 percent
 Standard error = 8.04 percent
 Standard error = 6.42 percent
 Standard error = 5.58 percent
 Standard error = 3.25 percent
 Standard error = 3.22 percent
 Standard error = 3.14 percent
 Standard error = 2.96 percent
 Standard error = 2.95 percent
 Standard error = 2.95 percent
 Standard error = 2.94 percent
 Standard error = 2.94 percent

Final model :

"TEM File: 180694.TEM Loop : 152 Line : 678N Station : 644.000"

I	Resistivity	Thickness	Depth
1	234.4	40.87	40.87
2	0.3090E-04	0.3359E-03	40.87
3	259.4		

Error structure of fitted model

Chnl	DELAY Time (ms)	Apparent Resistivity		Observed DB/DT (nV/sq.m)	Calculated DB/DT (nV/sq.m)	Weighted percent Symmetric Error
		Observed	Calculated			
1	0.352	20.5	19.2	1943.	2053.	-5.5
2	0.428	15.4	14.7	1826.	1886.	-3.2
3	0.525	11.5	11.4	1657.	1674.	-1.0
4	0.647	9.0	9.1	1435.	1428.	0.5
5	0.803	7.5	7.7	1176.	1158.	1.5
6	1.003	6.8	7.0	898.9	879.0	2.2
7	1.258	6.5	6.7	637.7	619.8	2.9
8	1.582	6.7	6.9	415.1	403.6	2.8
9	1.997	7.1	7.3	249.1	242.3	2.8
10	2.525	7.8	7.9	137.1	134.9	1.6
11	3.197	9.0	8.9	69.17	70.14	-1.4
12	4.055	10.7	10.2	31.90	34.31	-7.3
13	5.148	13.4	11.8	13.44	16.01	0.0
14	6.543	17.5	13.9	5.160	7.183	0.0
15	8.323	24.1	16.5	1.799	3.136	0.0
16	10.592	35.1	19.8	0.5735	1.332	0.0
17	13.490	54.0	24.0	0.1661	0.5558	0.0
18	17.188	88.4	28.8	0.4368E-01	0.2322	0.0
19	21.903	166.5	35.0	0.9270E-02	0.9535E-01	0.0
20	27.915	383.6	42.2	0.1450E-02	0.3956E-01	0.0

Mean percent Symmetric error = 2.55

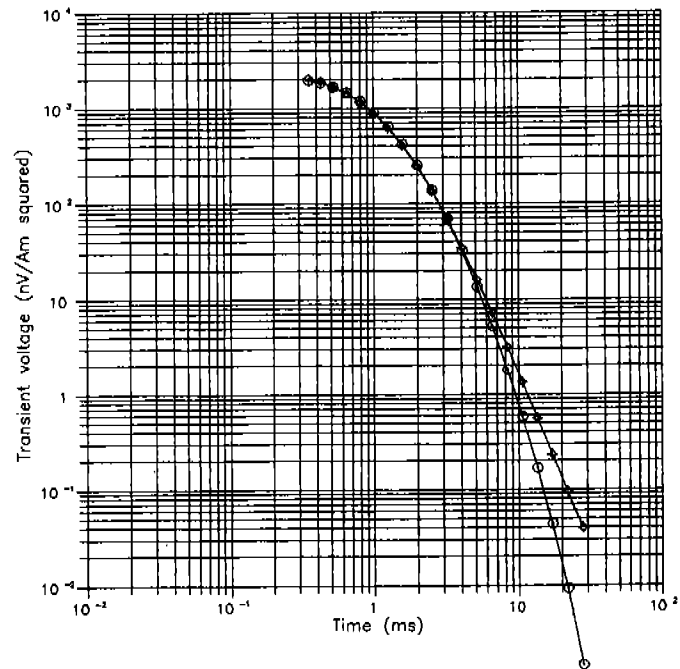
Maximum percent Symmetric error = 7.28

Maximum Symmetric error occurred at observation 12

Average predicted residual error (APRE) = 8.72 percent

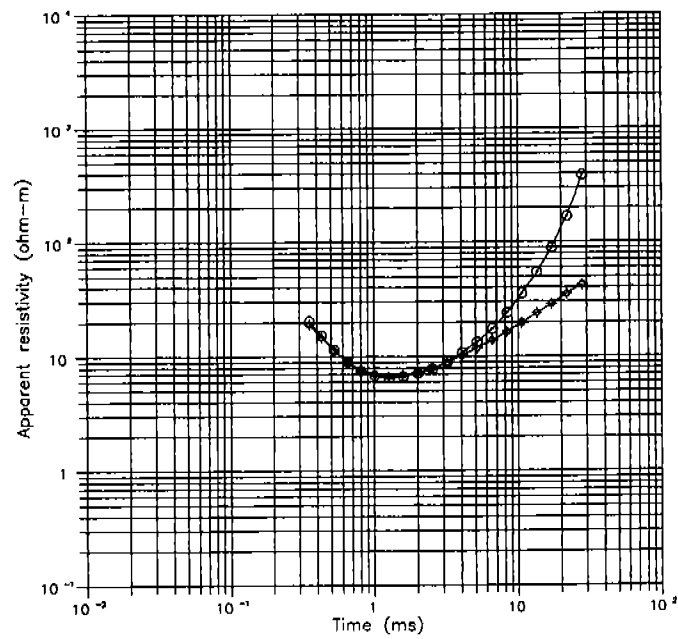
Transient decays

6.25 Hz data
Loop : 152
Station : 678N, 644

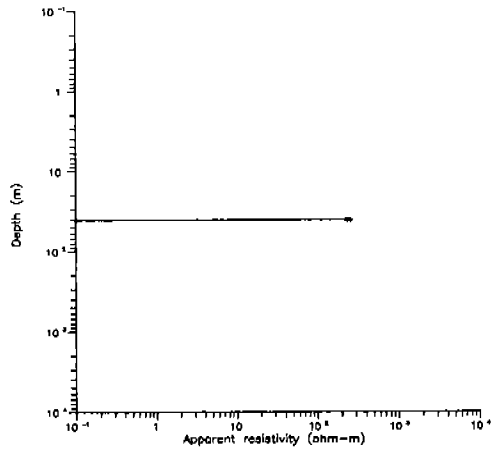


Apparent resistivity

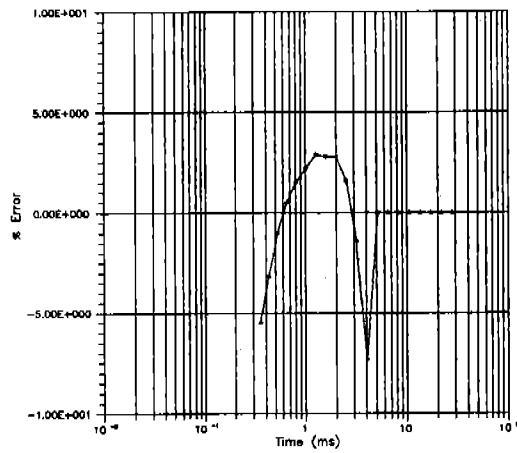
6.25 Hz data
Loop : 152
Station : 678N, 644



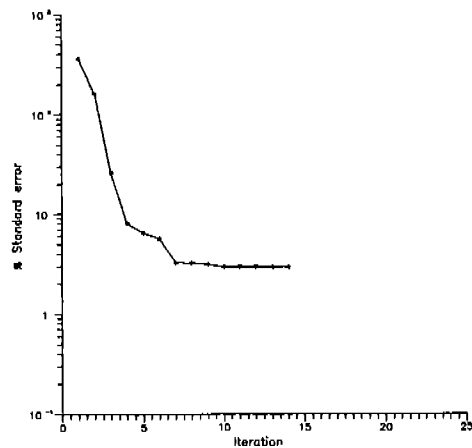
Layered-earth model
 6.25 Hz data
 Loop : 152
 Station : 678N, 644



Error structure
 6.25 Hz data
 Loop : 152
 Station : 678N, 644



Standard error per iteration
 6.25 Hz data
 Loop : 152
 Station : 678N, 644



K0678/660

GRENDL Inversion results

Job # : 3-825 Date : 10.11.94
 Program : GRENDL Version : July, 1992

Client : BHP

TEM File: 180694.TEM

Loop : 153
 Line : 678N Station : 660.000

The initial model is:

I	Resistivity	Thickness	Depth
1	250.0	40.00	40.00
2	0.1000E-01	0.1000E-01	40.01
3	2000.		

Convergence to final model

Standard error = 404.44 percent
 Standard error = 110.10 percent
 Standard error = 15.28 percent
 Standard error = 2.48 percent
 Standard error = 1.33 percent
 Standard error = 1.31 percent
 Standard error = 1.30 percent
 Standard error = 1.27 percent
 Standard error = 1.26 percent
 Standard error = 1.26 percent
 Standard error = 1.26 percent

Final model :

"TEM File: 180694.TEM Loop : 153 Line : 678N Station : 660.000"

I	Resistivity	Thickness	Depth
1	217.8	37.47	37.47
2	0.3293E-02	0.2800E-01	37.49
3	461.8		

Error structure of fitted model

Chnl	DELAY Time (ms)	Apparent Resistivity Observed	Apparent Resistivity Calculated	Observed DB/DT (nV/sq.m)	Calculated DB/DT (nV/sq.m)	Weighted percent Symmetric Error
1	0.352	16.0	15.1	2338.	2416.	-3.3
2	0.428	12.3	11.9	2117.	2150.	-1.6
3	0.525	9.8	9.8	1827.	1829.	-0.2
4	0.647	8.4	8.5	1491.	1480.	0.7
5	0.803	7.9	8.0	1139.	1126.	1.2
6	1.003	7.9	8.0	803.1	792.9	1.3
7	1.258	8.2	8.3	522.3	515.3	1.4
8	1.582	8.8	8.9	311.4	308.8	0.8
9	1.997	9.8	9.9	171.8	171.1	0.4
10	2.525	11.1	11.1	88.53	88.63	-0.1
11	3.197	12.9	12.8	43.08	43.25	-0.4
12	4.055	15.0	15.0	20.05	20.08	-0.2
13	5.148	17.8	17.8	8.955	8.972	-0.2
14	6.543	21.6	21.3	3.803	3.883	-2.1
15	8.323	27.2	25.7	1.512	1.646	0.0
16	10.592	35.8	31.1	0.5558	0.6857	0.0
17	13.490	50.1	37.8	0.1861	0.2828	0.0
18	17.188	73.6	46.0	0.5748E-01	0.1159	0.0
19	21.903	115.6	56.1	0.1600E-01	0.4717E-01	0.0
20	27.915	202.8	68.5	0.3770E-02	0.1918E-01	0.0

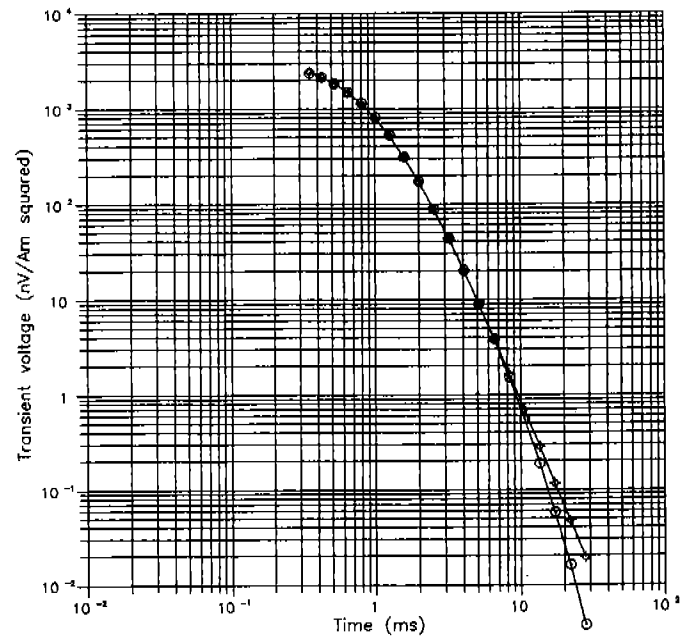
Mean percent Symmetric error = 1.09

Maximum percent Symmetric error = 3.28

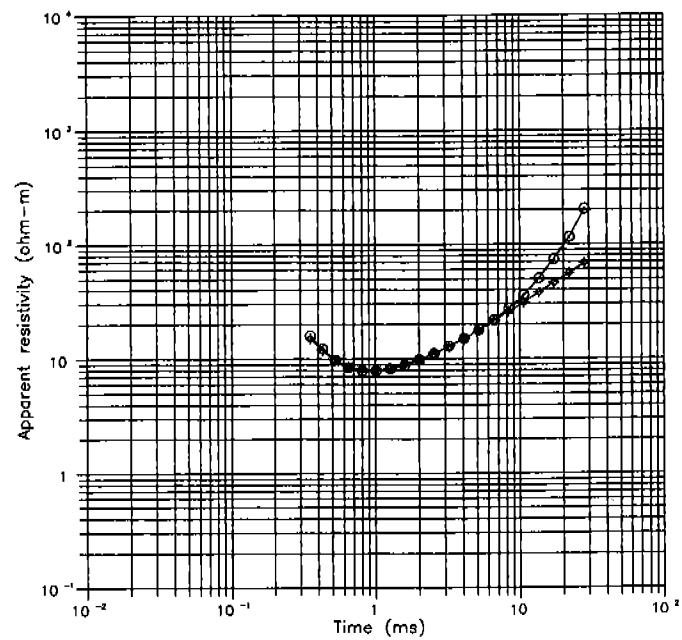
Maximum Symmetric error occurred at observation 1

Average predicted residual error (APRE) = 5.26 percent

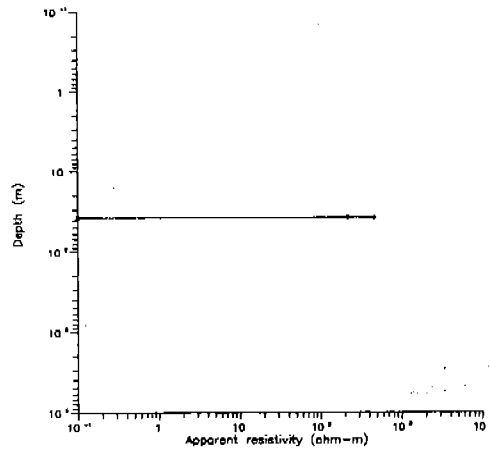
Transient decays
 6.25 Hz data
 Loop : 153
 Station : 678N, 660



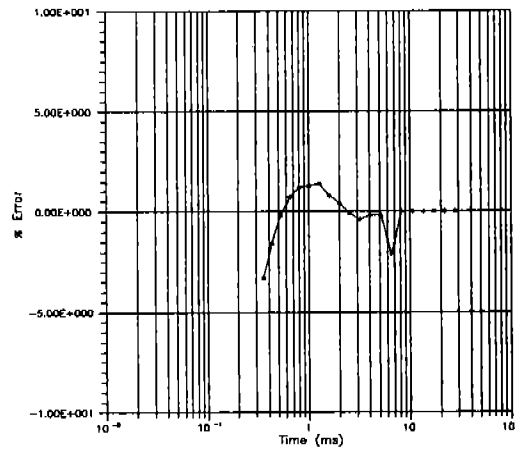
Apparent resistivity
 6.25 Hz data
 Loop : 153
 Station : 678N, 660



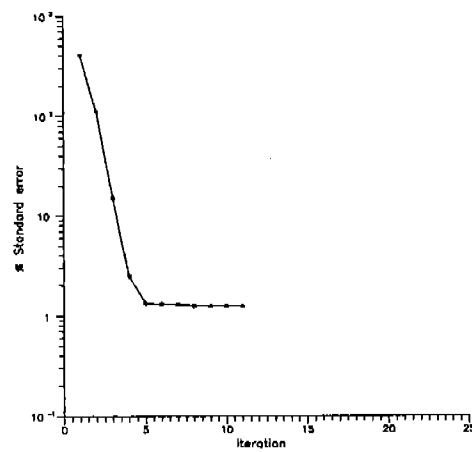
Layered-earth model
 6.25 Hz data
 Loop : 153
 Station : 678N, 660



Error structure
 6.25 Hz data
 Loop : 153
 Station : 678N, 660



Standard error per iteration
 6.25 Hz data
 Loop : 153
 Station : 678N, 660



K0678/676

GRENDL Inversion results

Job # : 3-825 Date : 10.11.94
Program : GRENDL Version : July, 1992

Client : BHP

TEM File: 180694.TEM

Loop : 154

Line : 678N Station : 676.000

The initial model is:

I	Resistivity	Thickness	Depth
1	500.0	50.00	50.00
2	0.5000E-01	0.5000E-01	50.05
3	250.0	25.00	75.05
4	5000.		

Convergence to final model

Standard error = 471.58 percent
Standard error = 120.50 percent
Standard error = 21.09 percent
Standard error = 2.62 percent
Standard error = 1.64 percent
Standard error = 1.64 percent
Standard error = 1.64 percent
Standard error = 1.63 percent
Standard error = 1.60 percent
Standard error = 1.60 percent
Standard error = 1.60 percent

Final model :

"TEM File: 180694.TEM Loop : 154 Line : 678N Station : 676.000"

I	Resistivity	Thickness	Depth
1	432.5	41.60	41.60
2	0.1657E-01	0.1442	41.75
3	219.8	29.34	71.09
4	2876.		

Error structure of fitted model

Chnl	DELAY Time (ms)	Apparent Resistivity Observed Calculated	Observed DB/DT (nV/sq.m)	Calculated DB/DT (nV/sq.m)	Weighted percent Symmetric Error
1	0.352	18.0 17.3	2185.	2249.	-2.9
2	0.428	14.1 13.8	1970.	1998.	-1.4
3	0.525	11.3 11.3	1695.	1700.	-0.3
4	0.647	9.7 9.7	1382.	1378.	0.3
5	0.803	8.9 8.9	1058.	1053.	0.5
6	1.003	8.6 8.7	750.9	746.4	0.6
7	1.258	8.7 8.8	493.5	489.3	0.9
8	1.582	9.3 9.3	298.1	296.1	0.7
9	1.997	10.1 10.2	167.3	165.6	1.0
10	2.525	11.3 11.4	87.45	86.41	1.2
11	3.197	12.9 13.1	42.87	42.38	1.1
12	4.055	15.1 15.2	19.89	19.71	0.9
13	5.148	18.1 18.1	8.802	8.783	0.2
14	6.543	21.9 21.7	3.733	3.775	-1.1
15	8.323	27.1 26.4	1.518	1.578	-3.9
16	10.592	34.5 32.4	0.5893	0.6459	0.0
17	13.490	45.1 40.0	0.2174	0.2599	0.0
18	17.188	60.9 49.8	0.7620E-01	0.1030	0.0
19	21.903	86.6 62.3	0.2468E-01	0.4034E-01	0.0
20	27.915	120.5 78.6	0.8230E-02	0.1561E-01	0.0

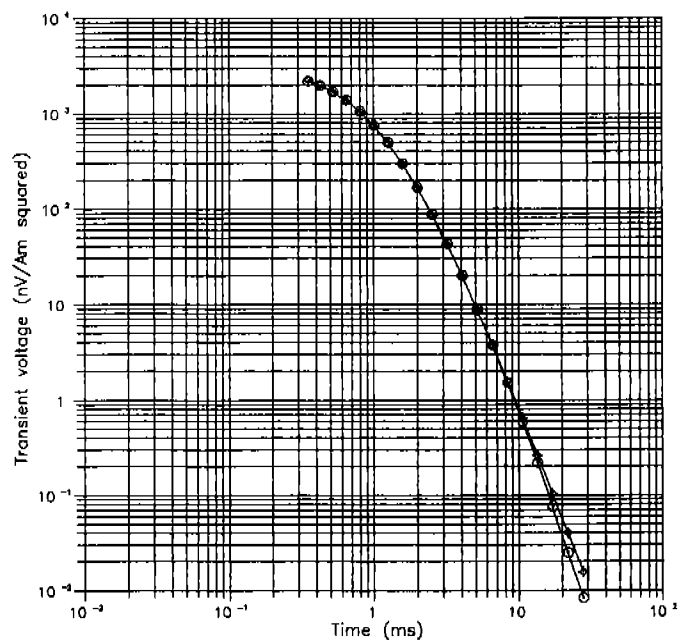
Mean percent Symmetric error = 1.29

Maximum percent Symmetric error = 3.89

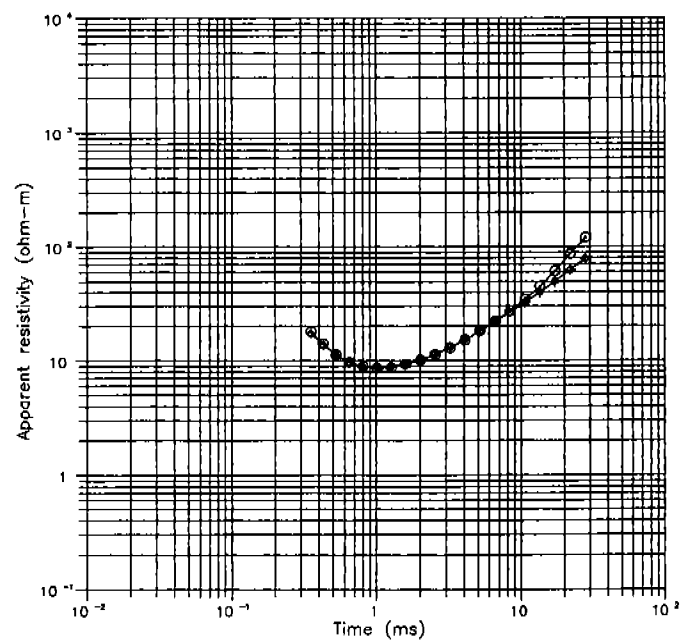
Maximum Symmetric error occurred at observation 15

Average predicted residual error (APRE) = 4.41 percent

Transient decays
6.25 Hz data
Loop : 154
Station : 678N, 676

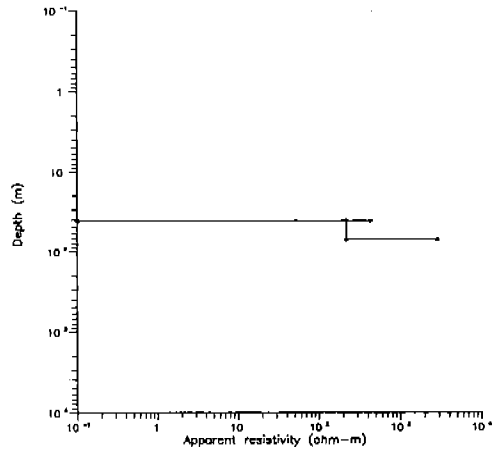


Apparent resistivity
6.25 Hz data
Loop : 154
Station : 678N, 676



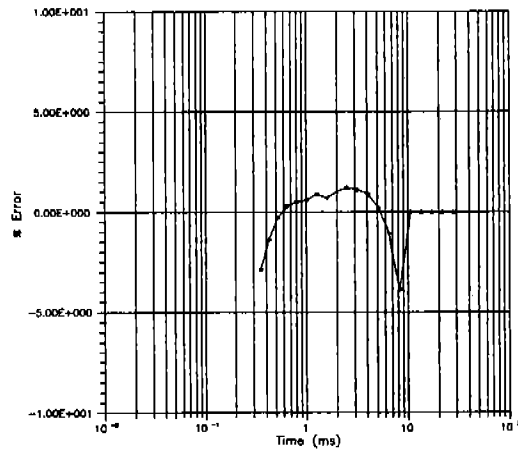
Layered-earth model

6.25 Hz data
 Loop : 154
 Station : 678N, 876



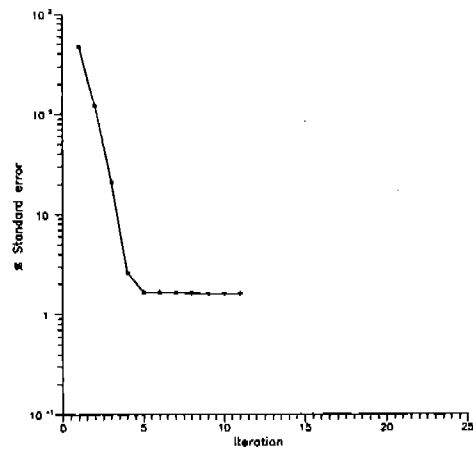
Error structure

6.25 Hz data
 Loop : 154
 Station : 678N, 876



Standard error per iteration

6.25 Hz data
 Loop : 154
 Station : 678N, 876



K0594/656

GRENDL Inversion results

Job # : 3-925 Date : 10.11.94
Program : GRENDL Version : July, 1992

Client : BHP

TEM File: 190694.TEM

Loop : 155

Line : 594N Station : 656.000

The initial model is:

I	Resistivity	Thickness	Depth
1	50.00	40.00	
2	1.000	10.00	40.00
3	2000.		50.00

Convergence to final model

Standard error = 13.00 percent
Standard error = 1.72 percent
Standard error = 1.62 percent
Standard error = 1.62 percent
Standard error = 1.62 percent

Final model :

"TEM File: 190694.TEM Loop : 155 Line : 594N Station : 656.000"

I	Resistivity	Thickness	Depth
1	50.34	46.08	
2	0.9865	10.49	46.08
3	1997.		56.57

Error structure of fitted model

Chnl	DELAY Time (ms)	Apparent Resistivity		Observed DB/DT (nV/sq.m)	Calculated DB/DT (nV/sq.m)	Weighted percent Symmetric Error
		Observed	Calculated			
1	0.352	20.9	20.9	1912.	1919.	-0.4
2	0.428	16.3	16.4	1748.	1743.	0.3
3	0.525	12.8	12.9	1538.	1527.	0.7
4	0.647	10.5	10.6	1293.	1285.	0.6
5	0.803	9.1	9.1	1028.	1027.	0.2
6	1.003	8.3	8.3	765.5	769.1	-0.5
7	1.258	8.0	7.9	532.5	537.3	-0.9
8	1.582	8.1	8.0	343.0	348.7	-1.6
9	1.997	8.4	8.3	207.0	209.9	-1.4
10	2.525	8.9	8.9	116.9	117.8	-0.8
11	3.197	9.8	9.8	62.12	61.97	0.2
12	4.055	10.9	11.0	31.12	30.73	1.3
13	5.148	12.5	12.7	14.80	14.50	2.1
14	6.543	14.6	14.8	6.708	6.548	2.4
15	8.323	17.4	17.6	2.916	2.854	2.1
16	10.592	21.0	21.2	1.226	1.209	1.4
17	13.490	25.7	25.7	0.5005	0.5001	0.1
18	17.188	31.9	31.6	0.2004	0.2027	-1.2
19	21.903	39.9	39.1	0.7849E-01	0.8081E-01	-2.9
20	27.915	49.5	48.9	0.3111E-01	0.3171E-01	-1.9

Mean percent Symmetric error = 1.40

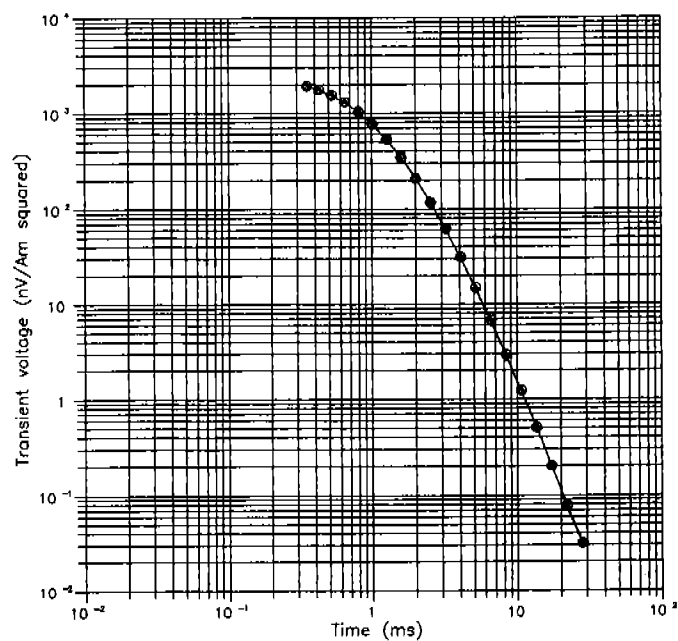
Maximum percent Symmetric error = 2.91

Maximum Symmetric error occurred at observation 19

Average predicted residual error (APRE) = 1.70 percent

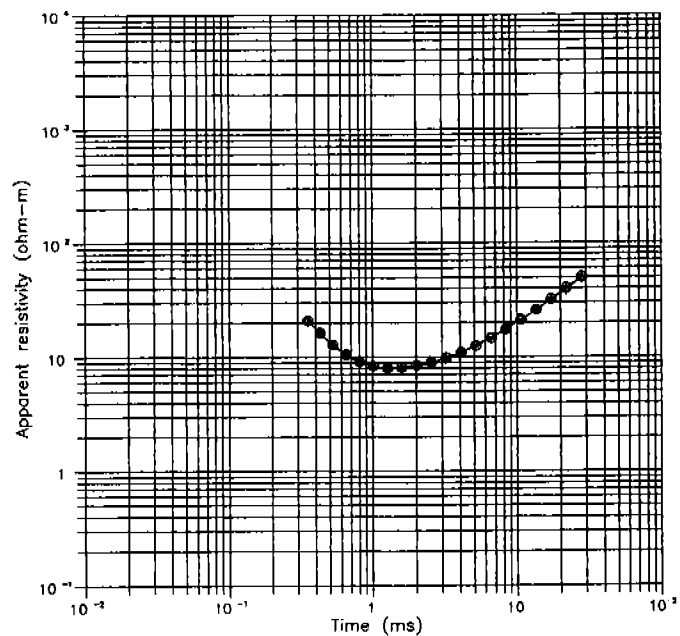
Transient decays

6.25 Hz data
Loop : 155
Station : 594N, 656

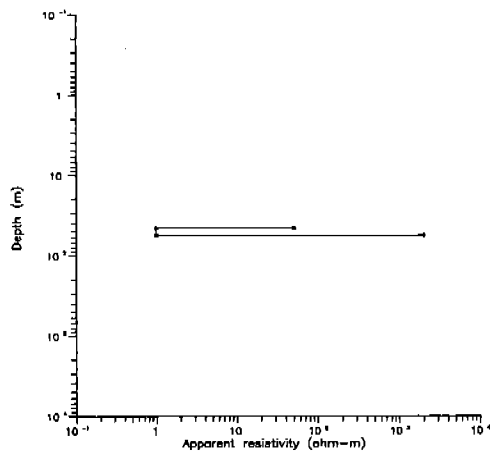


Apparent resistivity

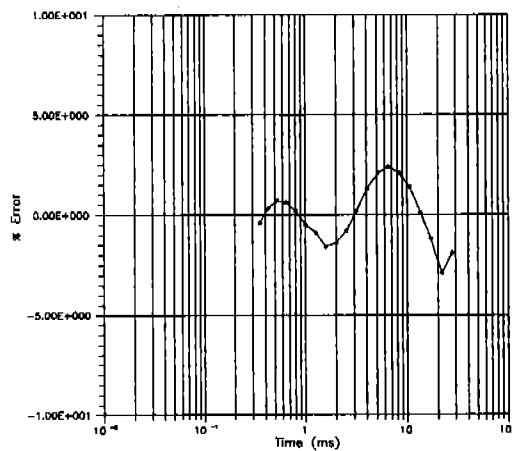
6.25 Hz data
Loop : 155
Station : 594N, 656



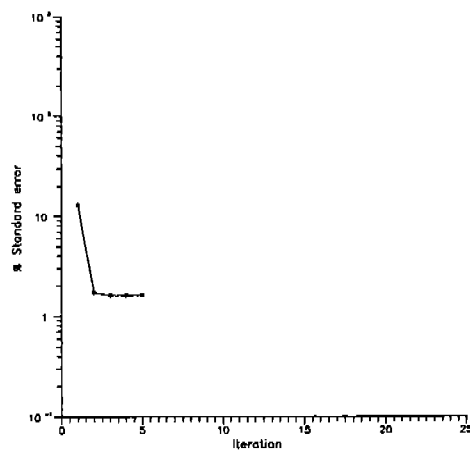
Layered-earth model
 6.25 Hz data
 Loop : 155
 Station : 594N, 656



Error structure
 6.25 Hz data
 Loop : 155
 Station : 594N, 656



Standard error per iteration
 6.25 Hz data
 Loop : 155
 Station : 594N, 656



K0594/640

GRENDL Inversion results

Job # : 3-825 Date : 10.11.94
 Program : GRENDL Version : July, 1992

Client : BHP

TEM File: 190694.TEM

Loop : 156

Line : 594N Station : 640.000

The initial model is:

I	Resistivity	Thickness	Depth
1	50.00	50.00	50.00
2	5.000	10.00	60.00
3	1000.		

Convergence to final model

Standard error = 273.77 percent
 Standard error = 170.80 percent
 Standard error = 35.19 percent
 Standard error = 14.88 percent
 Standard error = 14.63 percent
 Standard error = 4.94 percent
 Standard error = 4.36 percent
 Standard error = 3.29 percent
 Standard error = 2.23 percent
 Standard error = 1.76 percent
 Standard error = 1.56 percent
 Standard error = 1.48 percent
 Standard error = 1.45 percent
 Standard error = 1.44 percent
 Standard error = 1.43 percent
 Standard error = 1.43 percent
 Standard error = 1.43 percent
 Standard error = 1.42 percent
 Standard error = 1.42 percent
 Standard error = 1.42 percent

Final model :

"TEM File: 190694.TEM Loop : 156 Line : 594N Station : 640.000"

I	Resistivity	Thickness	Depth
1	42.91	47.25	47.25
2	0.9936	10.47	57.72
3	821.9		

Error structure of fitted model

Chnl	DELAY Time (ms)	Apparent Resistivity		Observed DB/DT (nV/sq.m)	Calculated DB/DT (nV/sq.m)	Weighted percent Symmetric Error
		Observed	Calculated			
1	0.352	21.4	21.1	1881.	1901.	-1.1
2	0.428	16.6	16.6	1725.	1726.	-0.1
3	0.525	13.0	13.1	1522.	1513.	0.6
4	0.647	10.6	10.7	1284.	1272.	0.9
5	0.803	9.2	9.2	1024.	1018.	0.6
6	1.003	8.4	8.4	763.6	763.0	0.1
7	1.258	8.0	8.0	531.7	533.9	-0.4
8	1.582	8.1	8.0	344.0	347.3	-1.0
9	1.997	8.4	8.3	207.5	209.7	-1.1
10	2.525	8.9	8.9	117.2	118.2	-0.8
11	3.197	9.7	9.7	62.35	62.42	-0.1
12	4.055	10.9	10.9	31.34	31.11	0.8
13	5.148	12.4	12.5	15.00	14.76	1.6
14	6.543	14.4	14.6	6.855	6.709	2.2
15	8.323	17.0	17.2	3.000	2.945	1.9
16	10.592	20.6	20.6	1.259	1.257	0.1
17	13.490	25.5	24.9	0.5060	0.5247	-3.6
18	17.188	32.4	30.4	0.1951	0.2149	0.0
19	21.903	42.6	37.3	0.7129E-01	0.8670E-01	0.0
20	27.915	57.8	46.2	0.2470E-01	0.3449E-01	0.0

Mean percent Symmetric error = 1.23

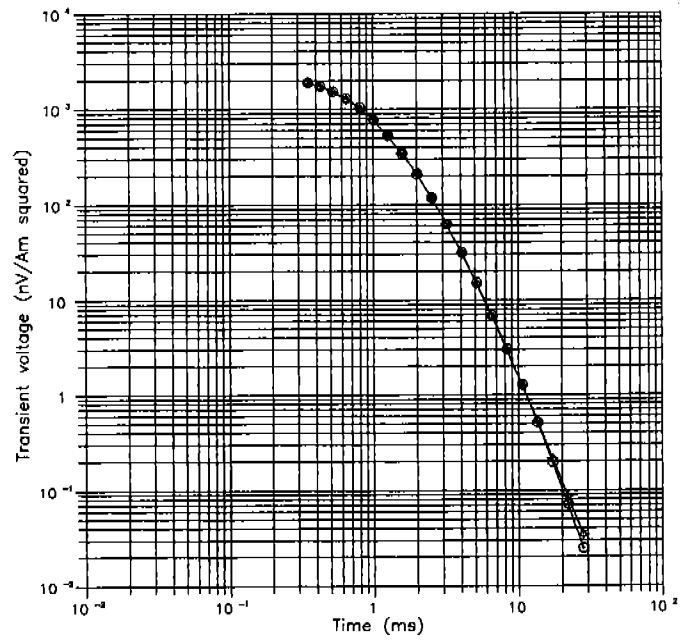
Maximum percent Symmetric error = 3.64

Maximum Symmetric error occurred at observation 17

Average predicted residual error (APRE) = 2.48 percent

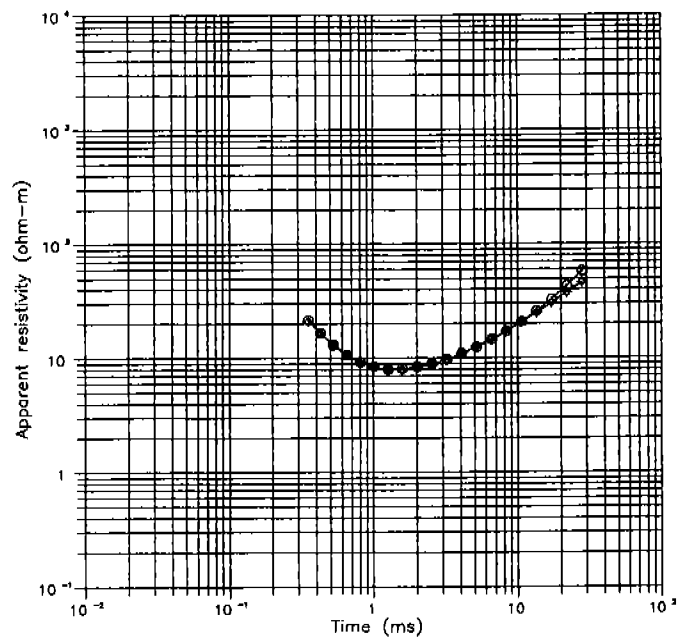
Transient decays

6.25 Hz data
Loop : 156
Station : 594N, 640



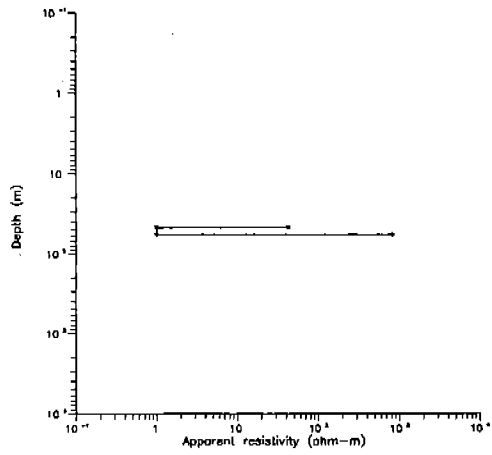
Apparent resistivity

6.25 Hz data
Loop : 156
Station : 594N, 640



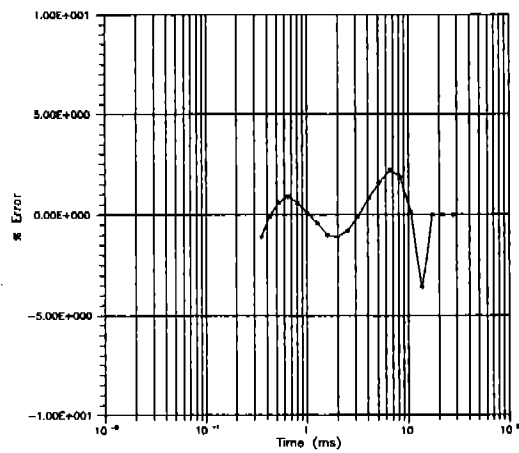
Layered-earth model

6.25 Hz data
 Loop : 156
 Station : 594N, 640



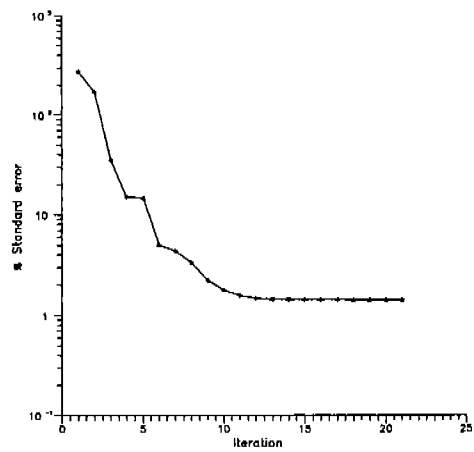
Error structure

6.25 Hz data
 Loop : 156
 Station : 594N, 640



Standard error per iteration

6.25 Hz data
 Loop : 156
 Station : 594N, 640



K0594/624

GRENDL Inversion results

Job # : 3-825 Date : 10.11.94
 Program : GRENDL Version : July, 1992

Client : BHP

TEM File: 190694.TEM

Loop : 157

Line : 594N Station : 624.000

The initial model is:

I	Resistivity	Thickness	Depth
1	100.0	50.00	50.00
2	1.000	5.000	55.00
3	1000.		

Convergence to final model

Standard error = 134.89 percent
 Standard error = 33.22 percent
 Standard error = 4.33 percent
 Standard error = 1.25 percent
 Standard error = 1.25 percent
 Standard error = 1.25 percent
 Standard error = 1.25 percent
 Standard error = 1.25 percent

Final model :

"TEM File: 190694.TEM Loop : 157 Line : 594N Station : 624.000"

I	Resistivity	Thickness	Depth
1	96.42	46.26	46.26
2	0.6969	7.695	53.96
3	973.1		

Error structure of fitted model

APPARENT RESISTIVITY STRUCTURE OF TESTED MODEL						Weighted percent Symmetric Error
Chnl	DELAY Time (ms)	Apparent Resistivity		Observed DB/DT (nV/sq.m)	Calculated DB/DT (nV/sq.m)	
		Observed	Calculated			
1	0.352	21.9	21.6	1840.	1860.	-1.1
2	0.428	17.0	17.0	1695.	1694.	0.0
3	0.525	13.2	13.4	1504.	1491.	0.8
4	0.647	10.7	10.9	1275.	1261.	1.1
5	0.803	9.2	9.3	1024.	1015.	0.8
6	1.003	8.3	8.3	768.0	766.7	0.2
7	1.258	7.9	7.9	538.2	540.1	-0.3
8	1.582	8.0	7.9	347.7	353.2	-1.6
9	1.997	8.2	8.1	210.8	214.0	-1.5
10	2.525	8.8	8.7	119.6	120.6	-0.9
11	3.197	9.6	9.6	63.71	63.62	0.1
12	4.055	10.7	10.8	31.98	31.59	1.2
13	5.148	12.3	12.4	15.19	14.91	1.9
14	6.543	14.4	14.5	6.850	6.738	1.6
15	8.323	17.2	17.3	2.945	2.939	0.2
16	10.592	21.1	20.7	1.216	1.247	-2.5
17	13.490	26.4	25.2	0.4809	0.5170	0.0
18	17.188	33.8	30.8	0.1835	0.2105	0.0
19	21.903	45.1	38.0	0.6535E-01	0.8441E-01	0.0
20	27.915	63.7	47.3	0.2137E-01	0.3339E-01	0.0

Mean percent Symmetric error = 1.08

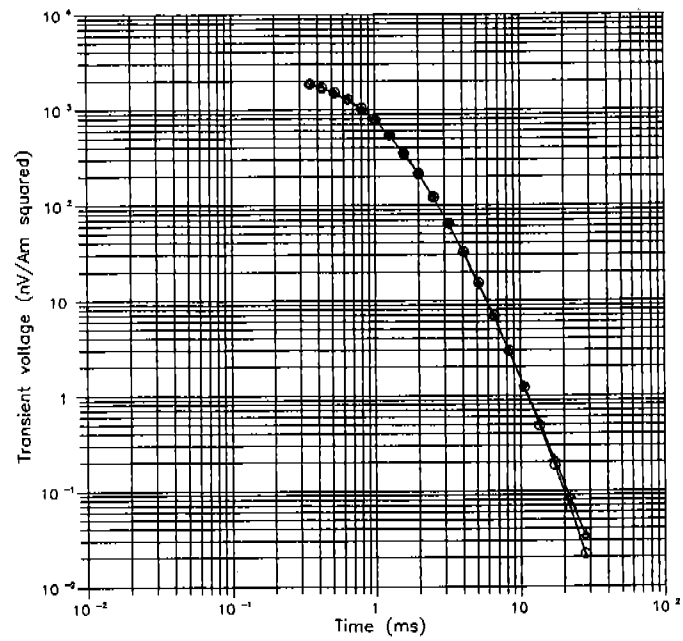
Maximum percent Symmetric error = 2.52

Maximum Symmetric error occurred at observation 16

Average predicted residual error (APRE) = 1.89 percent

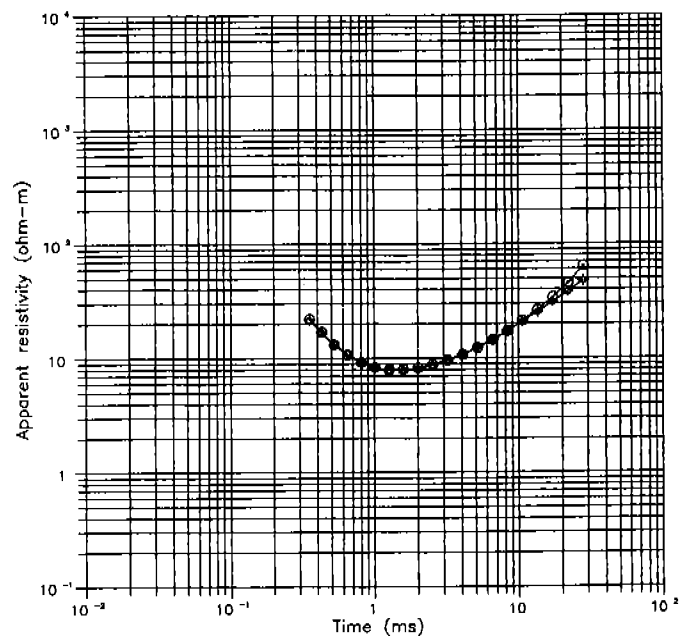
Transient decays

6.25 Hz data
Loop : 157
Station : 594N, 624

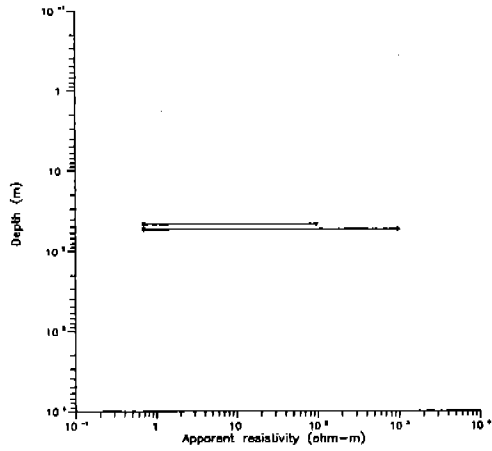


Apparent resistivity

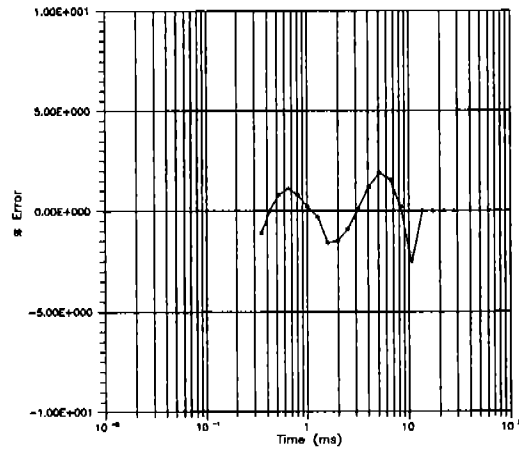
6.25 Hz data
Loop : 157
Station : 594N, 624



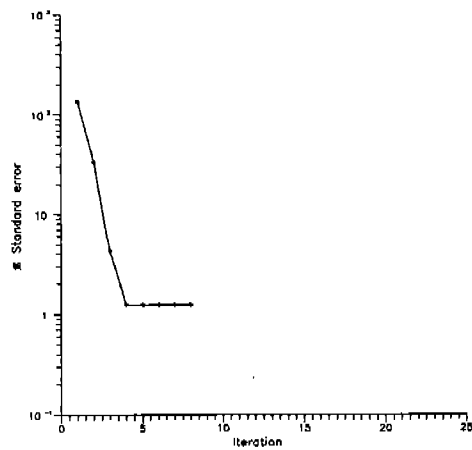
Layered-earth model
 6.25 Hz data
 Loop : 157
 Station : 594N, 624



Error structure
 6.25 Hz data
 Loop : 157
 Station : 594N, 624



Standard error per iteration
 6.25 Hz data
 Loop : 157
 Station : 594N, 624



K0594/608

GRENDL Inversion results

Job # : 3-825 Date : 10.11.94
Program : GRENDL Version : July, 1992

Client : BHP

TEM File: 190694.TEM

Loop : 158

Line : 594N Station : 608.000

The initial model is:

I	Resistivity	Thickness	Depth
1	100.0	25.00	25.00
2	25.00	25.00	50.00
3	1.000	5.000	55.00
4	250.0		

Convergence to final model

Standard error = 115.55 percent
Standard error = 27.66 percent
Standard error = 4.01 percent
Standard error = 1.68 percent
Standard error = 1.59 percent
Standard error = 1.55 percent
Standard error = 1.52 percent
Standard error = 1.49 percent
Standard error = 1.47 percent
Standard error = 1.46 percent
Standard error = 1.44 percent
Standard error = 1.43 percent
Standard error = 1.43 percent
Standard error = 1.37 percent
Standard error = 1.36 percent
Standard error = 1.35 percent
Standard error = 1.35 percent
Standard error = 1.34 percent
Standard error = 1.34 percent
Standard error = 1.33 percent
Standard error = 1.33 percent

Final model :

"TEM File: 190694.TEM Loop : 158 Line : 594N Station : 608.000"

I	Resistivity	Thickness	Depth
1	102.8	25.01	25.01
2	25.17	23.42	48.42
3	0.6017	6.614	55.04
4	316.2		

Error structure of fitted model

Error structure of fitted model						
Chnl	DELAY Time (ms)	Apparent Resistivity		Observed DB/DT (nV/sq.m)	Calculated DB/DT (nV/sq.m)	Weighted percent Symmetric Error
		Observed	Calculated			
1	0.352	22.7	22.5	1785.	1797.	-0.7
2	0.428	17.6	17.6	1648.	1646.	0.1
3	0.525	13.6	13.7	1469.	1460.	0.6
4	0.647	10.9	11.0	1256.	1247.	0.8
5	0.803	9.2	9.3	1020.	1015.	0.4
6	1.003	8.2	8.2	776.2	777.2	-0.1
7	1.258	7.7	7.6	553.2	556.2	-0.5
8	1.582	7.6	7.5	365.3	370.1	-1.3
9	1.997	7.8	7.7	225.8	228.3	-1.1
10	2.525	8.2	8.1	130.5	131.2	-0.5
11	3.197	8.8	8.9	70.78	70.50	0.4
12	4.055	9.8	9.9	36.17	35.68	1.4
13	5.148	11.1	11.2	17.52	17.17	2.0
14	6.543	12.8	13.0	8.073	7.906	2.1
15	8.323	15.2	15.3	3.544	3.517	0.7
16	10.592	18.4	18.1	1.484	1.523	-2.6
17	13.490	23.1	21.7	0.5887	0.6457	0.0
18	17.188	29.7	26.1	0.2222	0.2695	0.0
19	21.903	39.6	31.6	0.7946E-01	0.1111	0.0
20	27.915	55.7	38.5	0.2611E-01	0.4538E-01	0.0

Mean percent Symmetric error = 1.07

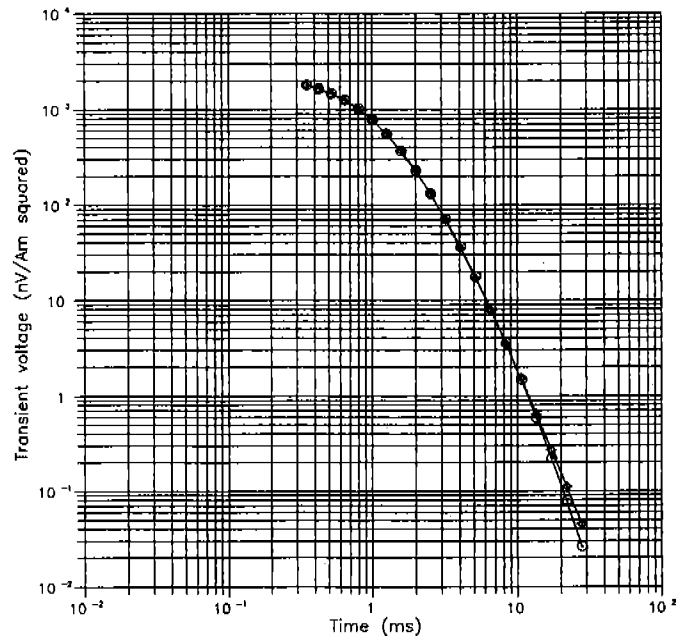
Maximum percent Symmetric error = 2.62

Maximum Symmetric error occurred at observation 16

Average predicted residual error (APRE) = 2.54 percent

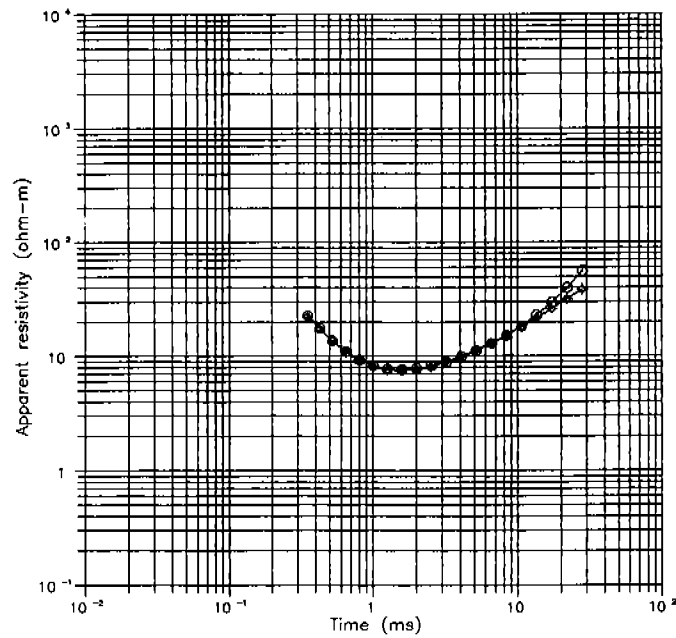
Transient decays

6.25 Hz data
Loop : 158
Station : 594N, 608



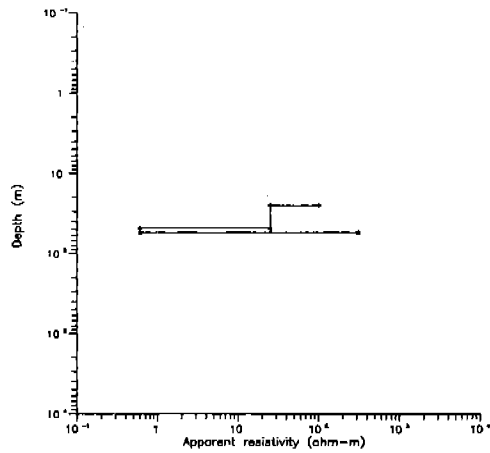
Apparent resistivity

6.25 Hz data
Loop : 158
Station : 594N, 608



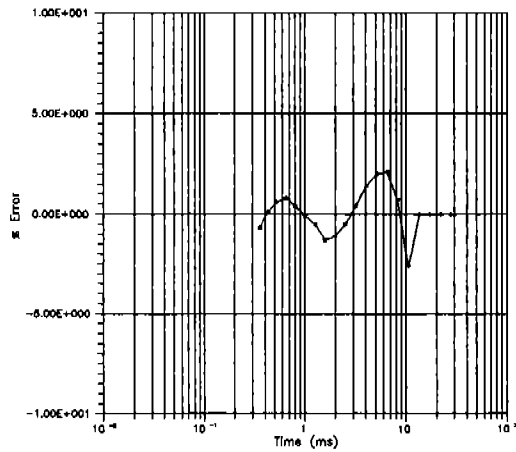
Layered-earth model

6.25 Hz data
Loop : 158
Station : 594N, 608



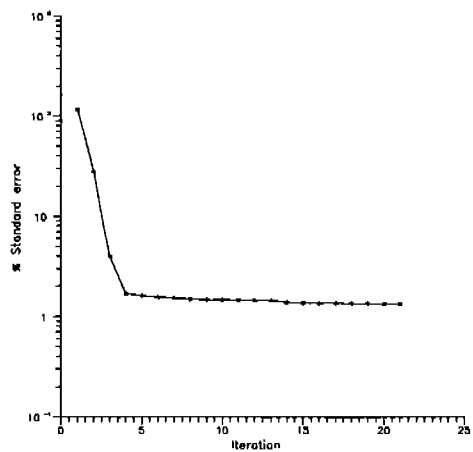
Error structure

6.25 Hz data
Loop : 158
Station : 594N, 608



Standard error per iteration

6.25 Hz data
Loop : 158
Station : 594N, 608



K0594/592

GRENDL Inversion results

Job # : 3-825 Date : 10.11.94
Program : GRENDL Version : July, 1992

Client : BHP

TEM File: 190694.TEM

Loop : 159

Line : 594N Station : 592.000

The initial model is:

I	Resistivity	Thickness	Depth
1	50.00.	50.00	50.00
2	1.000	5.000	55.00
3	1000.		

Convergence to final model

Standard error = 164.04 percent
Standard error = 43.81 percent
Standard error = 6.46 percent
Standard error = 1.84 percent
Standard error = 1.73 percent
Standard error = 1.70 percent
Standard error = 1.67 percent
Standard error = 1.65 percent
Standard error = 1.63 percent
Standard error = 1.61 percent
Standard error = 1.60 percent
Standard error = 1.59 percent
Standard error = 1.58 percent
Standard error = 1.57 percent
Standard error = 1.57 percent
Standard error = 1.56 percent
Standard error = 1.55 percent
Standard error = 1.55 percent
Standard error = 1.55 percent
Standard error = 1.54 percent
Standard error = 1.54 percent

Final model :

"TEM File: 190694.TEM Loop : 159 Line : 594N Station : 592.000"

I	Resistivity	Thickness	Depth
1	53.15	48.18	48.18
2	0.4745	5.747	53.92
3	1043.		

Error structure of fitted model

Chnl	DELAY Time (ms)	Apparent Resistivity Observed Calculated	Observed DB/DT (nV/sq.m)	Calculated DB/DT (nV/sq.m)	Weighted percent Symmetric Error
1	0.352	23.7 23.2	1716.	1751.	-2.0
2	0.428	18.1 18.0	1604.	1616.	-0.8
3	0.525	13.8 13.9	1453.	1447.	0.4
4	0.647	10.8 11.0	1266.	1251.	1.2
5	0.803	8.9 9.0	1048.	1034.	1.4
6	1.003	7.7 7.8	814.2	804.8	1.2
7	1.258	7.1 7.2	590.8	586.5	0.7
8	1.582	7.0 7.0	395.5	397.5	-0.5
9	1.997	7.1 7.1	247.1	249.5	-1.0
10	2.525	7.5 7.5	143.6	145.4	-1.3
11	3.197	8.2 8.1	78.08	79.03	-1.2
12	4.058	9.1 9.0	39.95	40.28	-0.8
13	5.148	10.3 10.3	19.42	19.44	-0.1
14	6.543	11.9 11.9	9.012	8.942	0.8
15	8.323	13.9 14.1	4.023	3.956	1.7
16	10.592	16.6 16.8	1.727	1.696	1.8
17	13.490	20.2 20.4	0.7144	0.7083	0.9
18	17.188	25.0 24.9	0.2869	0.2896	-0.9
19	21.903	31.4 30.7	0.1123	0.1163	-3.5
20	27.915	42.4 38.1	0.3925E-01	0.4600E-01	0.0

Mean percent Symmetric error = 1.33

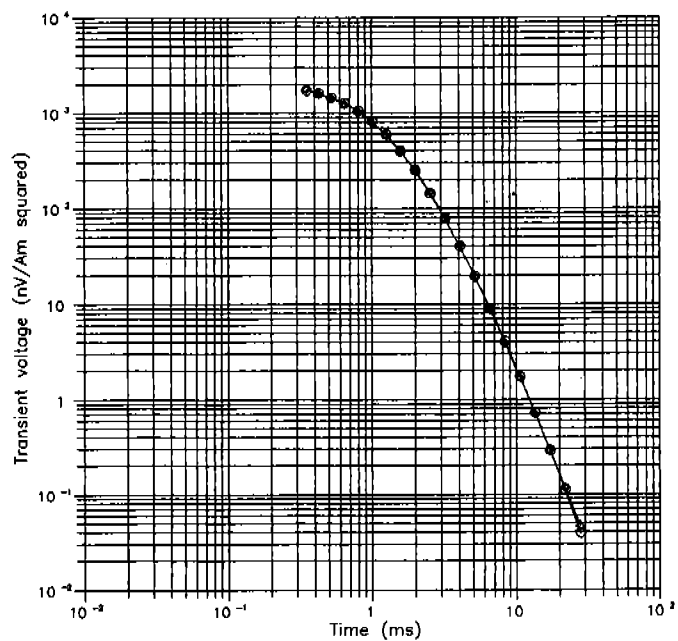
Maximum percent Symmetric error = 3.50

Maximum Symmetric error occurred at observation 19

Average predicted residual error (APRE) = 2.21 percent

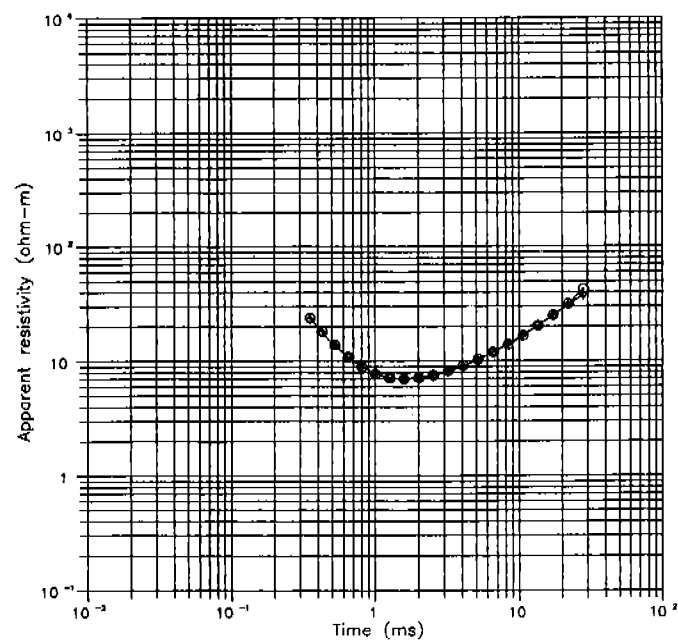
Transient decays

6.25 Hz data
Loop : 159
Station : 594N, 592

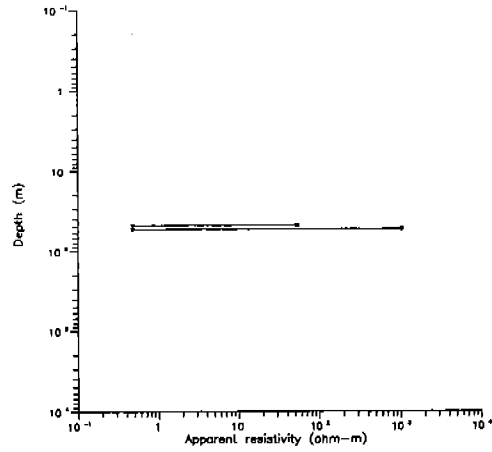


Apparent resistivity

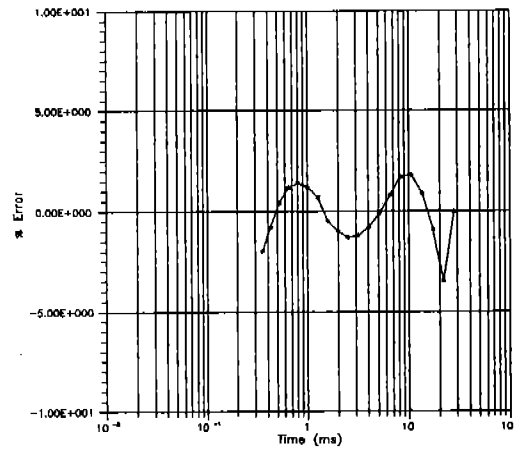
6.25 Hz data
Loop : 159
Station : 594N, 592



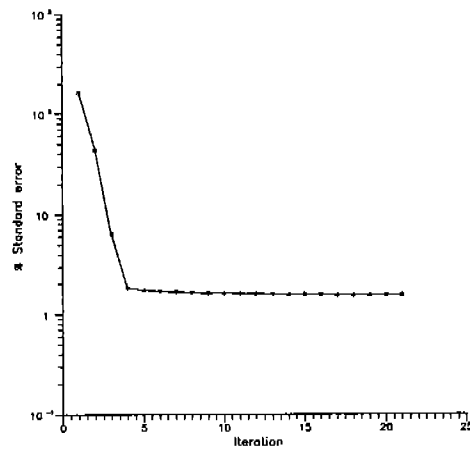
Layered-earth model
6.25 Hz data
Loop : 159
Station : 594N, 592



Error structure
6.25 Hz data
Loop : 159
Station : 594N, 592



Standard error per iteration
6.25 Hz data
Loop : 159
Station : 594N, 592



K0594/576

GRENDL Inversion results

Job # : 3-825 Date : 10.11.94
 Program : GRENDL Version : July, 1992

Client : BHP

TEM File: 200694.TEM

Loop : 160

Line : 594N Station : 576.000

The initial model is:

I	Resistivity	Thickness	Depth
1	100.0	50.00	50.00
2	5.000	50.00	100.0
3	1000.		

Convergence to final model

Standard error = 90.53 percent
 Standard error = 10.30 percent
 Standard error = 2.93 percent
 Standard error = 2.26 percent
 Standard error = 1.60 percent
 Standard error = 1.23 percent
 Standard error = 1.09 percent
 Standard error = 1.05 percent
 Standard error = 1.03 percent
 Standard error = 1.03 percent
 Standard error = 1.03 percent
 Standard error = 1.03 percent
 Standard error = 1.03 percent

Final model :

"TEM File: 200694.TEM Loop : 160 Line : 594N Station : 576.000"

I	Resistivity	Thickness	Depth
1	100.7	40.12	40.12
2	2.155	33.18	73.30
3	1031.		

Error structure of fitted model

Chnl	DELAY Time (ms)	Apparent Resistivity		Observed DB/DT (nV/sq.m)	Calculated DB/DT (nV/sq.m)	Weighted percent Symmetric Error
		Observed	Calculated			
1	0.352	26.3	26.1	1590.	1599.	-0.6
2	0.428	20.2	20.1	1484.	1492.	-0.5
3	0.525	15.3	15.3	1356.	1355.	0.0
4	0.647	11.8	11.9	1196.	1191.	0.4
5	0.803	9.4	9.5	1010.	1003.	0.7
6	1.003	7.9	8.0	804.3	798.8	0.7
7	1.258	7.1	7.1	601.0	598.0	0.5
8	1.582	6.7	6.7	416.9	418.6	-0.4
9	1.997	6.6	6.5	271.2	272.9	-0.6
10	2.525	6.7	6.7	164.9	166.2	-0.8
11	3.197	7.1	7.0	93.88	94.61	-0.8
12	4.055	7.6	7.6	50.39	50.59	-0.4
13	5.148	8.4	8.4	25.60	25.59	0.0
14	6.543	9.5	9.5	12.38	12.30	0.6
15	8.323	10.9	11.0	5.736	5.664	1.3
16	10.592	12.7	12.9	2.554	2.514	1.6
17	13.490	15.2	15.3	1.089	1.081	0.7
18	17.188	18.7	18.4	0.4411	0.4530	-2.7
19	21.903	23.8	22.4	0.1692	0.1855	0.0
20	27.915	31.6	27.6	0.6090E-01	0.7442E-01	0.0

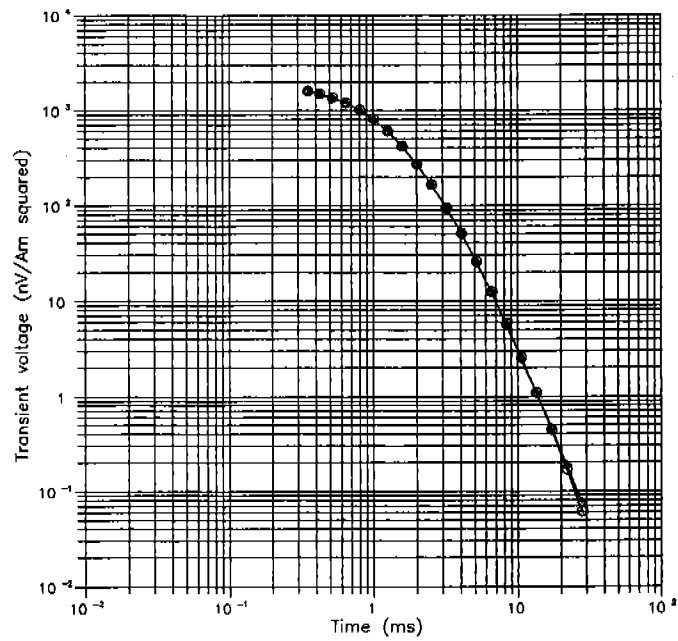
Mean percent Symmetric error = 0.89

Maximum percent Symmetric error = 2.66

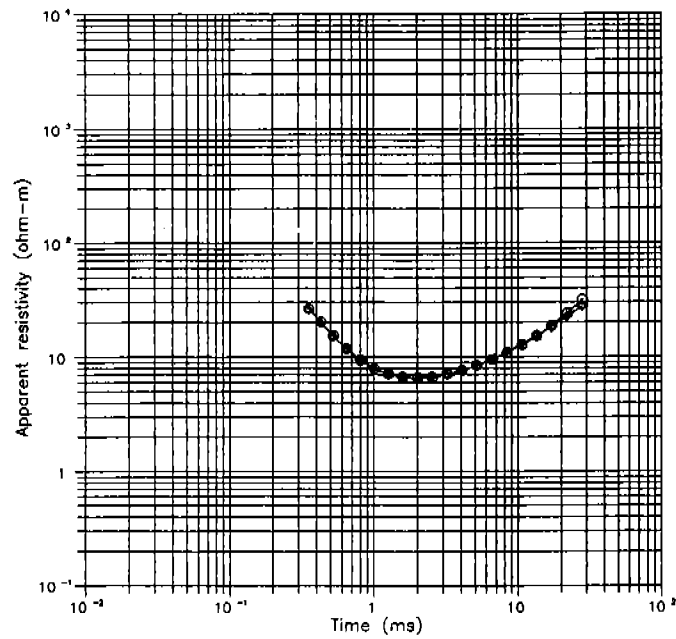
Maximum Symmetric error occurred at observation 18

Average predicted residual error (APRE) = 1.49 percent

Transient decays
6.25 Hz data
Loop : 160
Station : 594N, 576

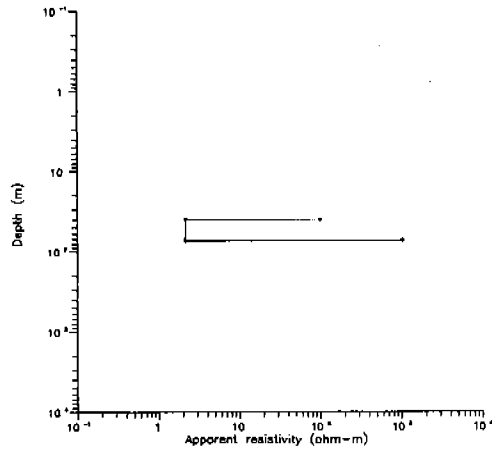


Apparent resistivity
6.25 Hz data
Loop : 160
Station : 594N, 576



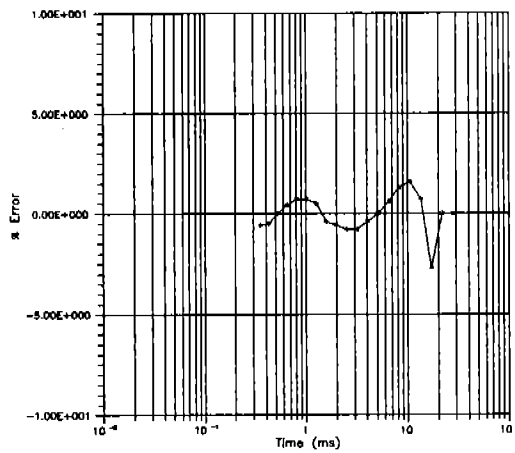
Layered-earth model

6.25 Hz data
Loop : 160
Station : 594N, 576



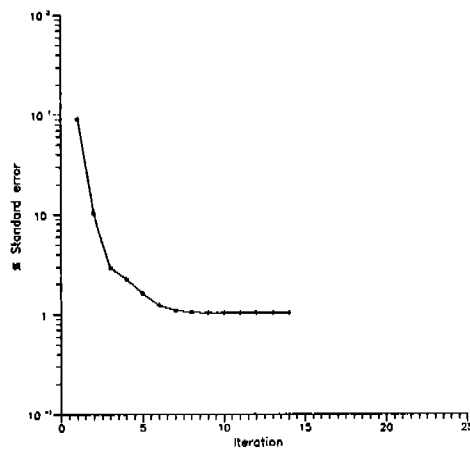
Error structure

6.25 Hz data
Loop : 160
Station : 594N, 576



Standard error per iteration

6.25 Hz data
Loop : 160
Station : 594N, 576



SOUNDING: 594560 : Vers 2
 Puzzle Creek K0594/560 6.25 Hz

594560A

107 ohm.m	* 38.3 m.	
* 1.9 ohm.m	* 22.9 m.	* 38.3 m.
		* 61.2 m.
(973 ohm.m)		

107
* 1.9
(973)

STD ERR= 1.7% : S= 13 S

E= 2%
 S= 13S

Sounding 594560 : Ver 2

