

Assessment Report

For the

2007 Geochemical Testing and Prospecting Program

On the

Panthera Mineral Property

Omineca Mining Division

RECEIVED
 MAY 06 2008
 Gold Commissioner's Office
 VANCOUVER, B.C.

NTS 93L/09

Latitude: 54 degrees, 42 minutes

Longitude: 126 degrees, 15 minutes

Owned by S. Bell

Operator S. Bell

Report By: S. Bell

November 2007

Tenure	Name	Area	Good to Date
54460	Panthera West	467.16	2010/April/10
54461	Panthera	467.15	2010/April/10
554463	Panthera East	186.86	2010/April/10
554462	Panthera South	261.71	2010/April/10
564943	Panthera South EXT.	4.79	2010/April/10

GEOLOGICAL SURVEY BRANCH
 ASSESSMENT REPORT

29,888

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Pocket

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Introduction

1.0 Between August 24 and November 1st 2007 the author completed prospecting and geochemical surveys on the Panthera property. Historical geophysical data was reviewed and used to solve the inverse problem and a two dimensional (2-D) Resistivity and Induced Polarization model for the subsurface was created. The following details the exploration performed on the Panthera claim group during the 2007 season and reports the results of the geochemical analysis.

2.0 Summary

The property is located near an important fault that represents a zone of weakness that may have localized copper bearing intrusions. Several intrusion related copper/molybdenum mineral occurrences lie along this structure that extends from Babine Lake in the north-east to Johnny David creek in the south-west. On the adjacent property to the north-west are the Baboon Lake, Thezar east and Thezar west porphyry copper/molybdenum prospects.

Conventional prospecting on the Panthera claims revealed pyritic hornfels bedrock occurrences that are located peripheral to a large historical induced polarization anomaly and Minfile copper occurrence Cougar 93L-193. This suggests that the Panthera property could host a sulphide bearing system related to an undiscovered intrusive stock or plug.

The geochemical survey conducted did not indicate the presence of base metals in the underlying bedrock however review of historical geophysical data suggests that the depth of burial is too deep for this method of detection.

2.1 Location and Access and Ownership

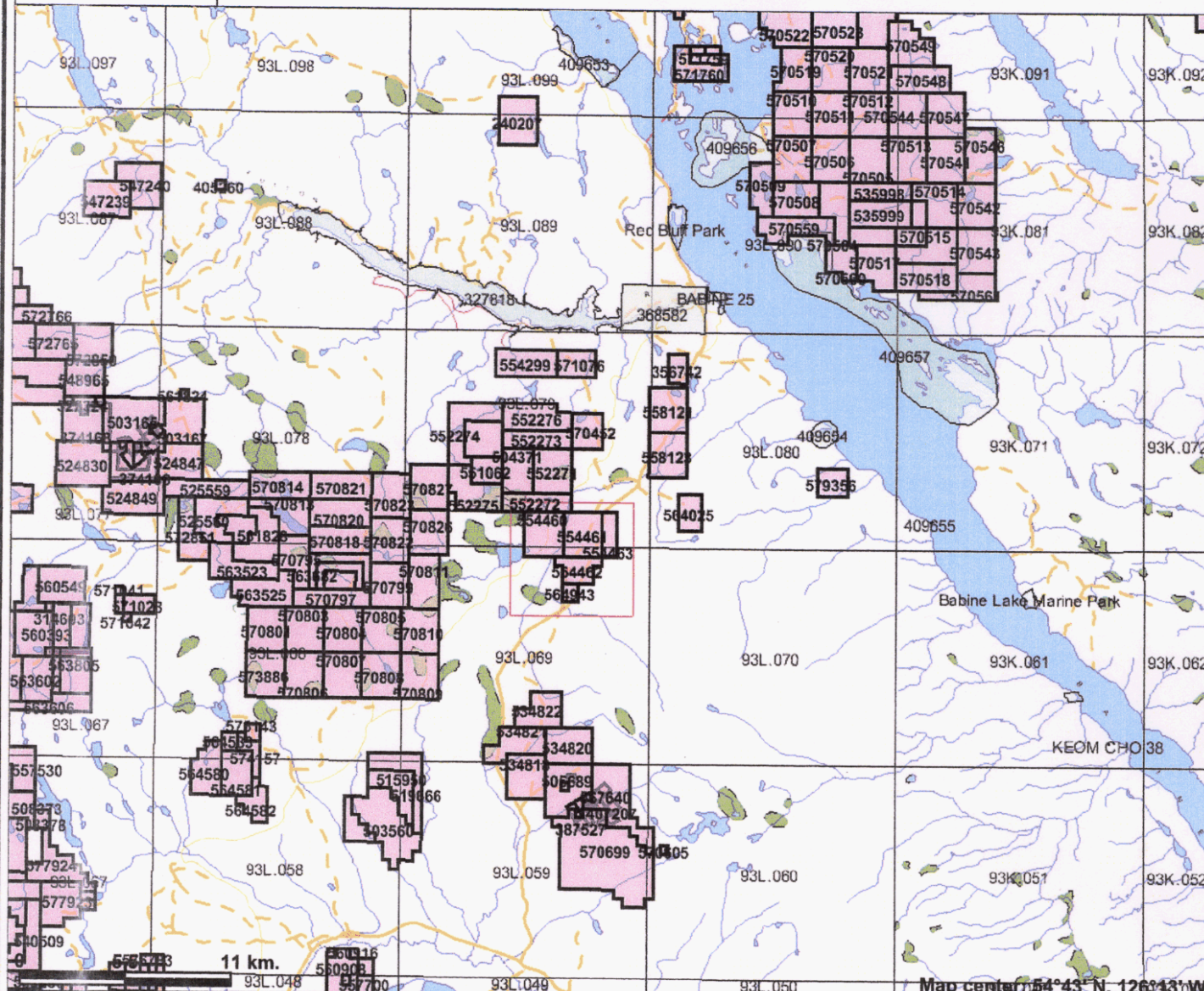
The Panthera group of claims consists of 1,457.68 hectares comprising 5 mineral tenures listed in Table 1.

Table 1. Panthera Tenures

Tenure	Name	Area	Good To Date
554460	Panthera West	467.16	2010/April/10
554461	Panthera	467.15	2010/April/10
554463	Panthera East	186.86	2010/April/10
554462	Panthera South	261.71	2010/April/10
564943	Panthera South EXT.	74.79	2010/April/10

The claim group is located approximately 22 km north of Topley in west central British Columbia and centered at 54 degrees 42 minutes latitude, 126 degrees 15 minutes longitude. Access is made from Topley by an all weather paved road that passes through the east half of the claim

Panthera Claim Group - Red Rectangle



Legend

- Indian Reserves
- National Parks
- Parks
- Mineral Tenure (current)**
- Mineral Claim
- Mineral Lease
- Mineral Reserves (current)**
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- BCGS Grid
- Annotation (1:250K)**
- Transportation - Points (1:250K)**
- + Airfield
- + Anchorage - Seaplane
- + Ferry Route
- + Heliport
- + Seaplane Base
- + Air Field
- + Airport
- + Air Feature - Condition Unknown
- + Airport, Abandoned
- Transportation - Lines (1:250K)**
- Ferry Route
- Aerial Cableway
- Road (Gravel Undivided) - 1 Lane
- Road (Gravel Undivided) - 3 Lanes
- Road - Paved, lanes 2 or more, Divided
- Road (Paved Undivided) - Not Elevated

Scale: 1:314,119

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

group. The Panthera group of claims is located in the Omineca Mining Division and is owned by S. Bell of Houston, British Columbia.

2.2 Physiography, Vegetation and Climate

The claims are located on gently rolling topography typical of the Nechako plateau at an elevation of about 1000 meters. Overburden conceals the bedrock and consists of glacial deposits that vary from less than a meter to tens of meters in thickness in low lying areas. Pines grow on ridges while spruce and alder are found in the lower areas. A large portion of the property has been previously logged but remains bush covered by new growth. Small streams meander through low swampy areas separated by well drained smooth hills. The flow is toward Tachek creek that lies in a north north-east trending valley that bisects the claims. A power transmission line that services the village of Granisle runs up this valley east of the creek. Parallel to the power line is the old Granisle road that has been replaced by an all weather paved road 1km further east. Winters are moderate to cold with typical snow accumulations of about 1 meter and the area is generally free from snow pack between May and October.

2.3 History of work

Records of early work within the area date back to the 1920's when the gold-silver-lead-zinc veins at the Topley Richfield property 12 km south of the Panthera claims underwent considerable underground development. Following the release of government airborne magnetic maps the M.C. Thora claims were staked at the present Panthera location for J.H. Montgomery on February 4th 1969. Montgomery conducted an Induced polarization survey and discovered an anomalous zone. This was drill tested by one hole that encountered serpentized volcanic rocks (personal communication) and the claims were allowed to lapse. No work was recorded. On June 27, 1970 Nittetsu Mining Company staked the Cougar group that included the Montgomery anomaly. They carried out a soil geochemical survey (Aris #2972) and a reconnaissance Induced Polarization survey (Aris #2973). The Nittetsu IP survey identified the Montgomery anomaly and in 1971 the company conducted a more detailed IP survey (Aris#3262) to define it. Diamond drill testing at several locations was recommended however there is no record of this work.

In 1971 the Lennac Lake copper-molybdenum prospect was discovered by Amax Exploration Inc. 5km north-west of the present Panthera location. Amax drill tested two zones the Amax West (300x300x100)m @ 0.2% Cu and the Amax East (800x800x100)m @ .1% Cu on the Thezar claims. Past producing Bell and Granisle porphyry copper mines are located approximately 30km north of the Panthera claims.

2.4 Regional Geology

The area north of Topley B.C. is located within the Intermontane tectonic belt where the transverse Skeena arch trends through the south end of the Babine Porphyry belt. The arch is a positive tectonic feature that has preserved older Triassic and Jurassic Stikina terrain rocks. In

early Cretaceous time the Skeena arch was intruded by numerous intrusive stocks and plugs that are localized along north-west and north-east trending faults. Important porphyry style mineralization is associated with some of these intrusions and a setting favorable to mineral exploration was created after erosion exposed them. The mainly sub aerial Telkwa formation, the lowest unit of the Jurassic Hazelton group is host to structurally controlled precious metals and volcanogenetic massive sulphide prospects occur in the overlying oceanic sedimentary rocks.

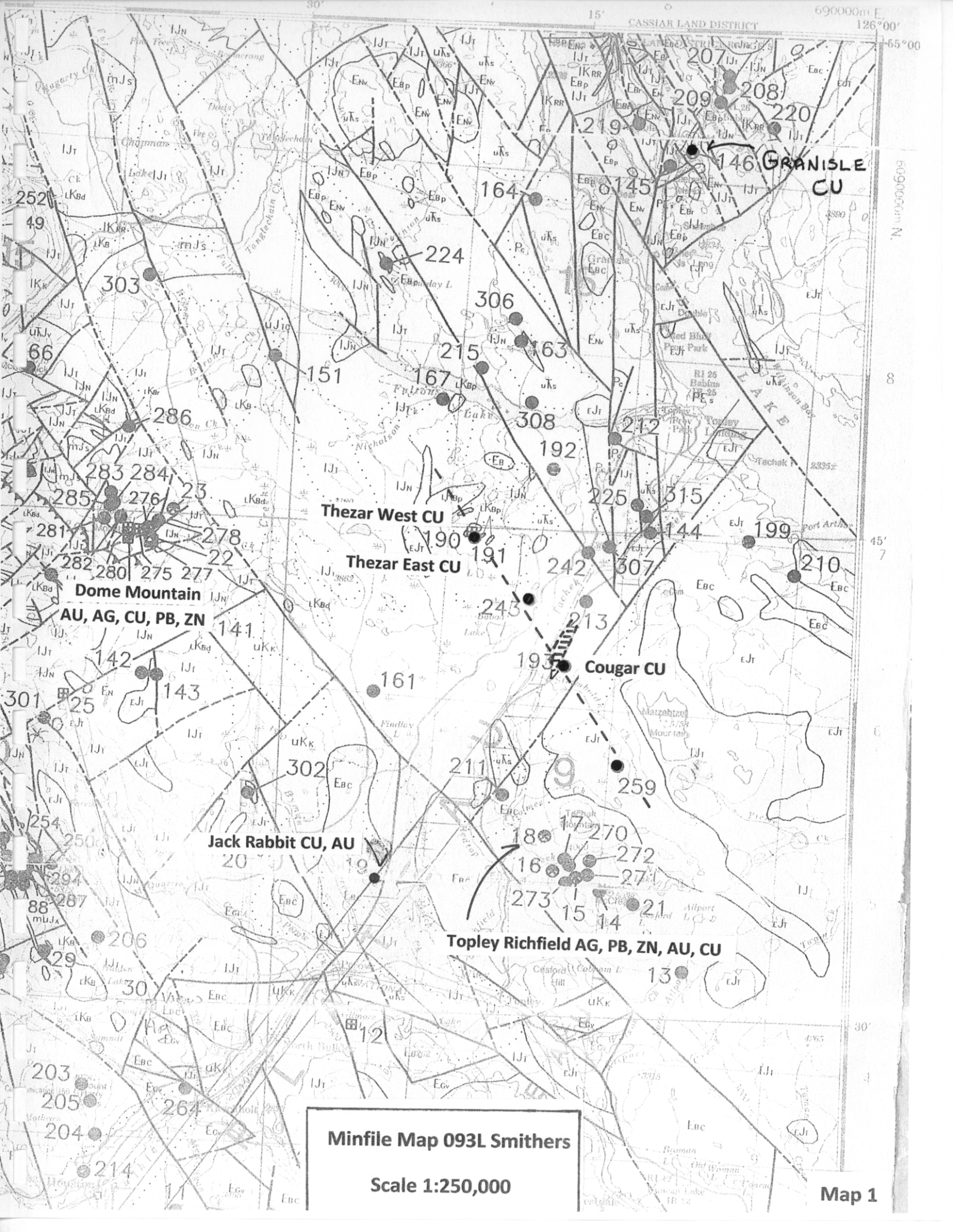
3.0 2007 Prospecting Program

The Panthera claims in the area of anomalous chargeability as indicated by the Nittetsu 1971 induced polarization survey and the ground located between the all weather road and Tachek creek was explored using conventional prospecting techniques. The purpose of the survey was to identify bedrock occurrences, select geochemical sample sites and to locate the historical geophysical grid.

3.1 Property Geology

The property extends from the edge of Baboon lake in the west to east of the all weather Granisle highway. Out cropping bedrock is rare and is largely concealed by Quaternary sediments consisting of undulating morainal blanket and organic veneer to blanket. The ground to the west is of low relief with numerous swamps and bogs. The slope is generally toward the east and forms the side of a broad valley occupied by Tachek creek, which flows north to Babine Lake. On the eastern side of the valley there are several small hills separated by low swampy areas (see Map #1 Topography). A 5400 gamma horseshoe shaped magnetic anomaly (see Map #2 Magnetics) is centered on one low hill located within the Panthera claim #554461 at 65000 north x 76300 east. An outcrop of white to grey banded limestone was examined adjacent to the North logging road at 65100 north x 75300 east. This limestone is similar to exposures near Fulton Lake and is regarded to be Triassic or older in age. The outcrop is west of the magnetic feature and in an area of low magnetic relief and represents a lithologic change in the underlying rock possibly defining a sedimentary/volcanic or intrusive contact. Unfortunately no outcrop could be found to verify this theory. Green andesitic ash tuff outcrops at two locations in a road cut on the Granisle highway (see Map #4). These are also believed to be Triassic in age. Two directions of glacial striae were measured there at 40/140 and 115/295 degrees.

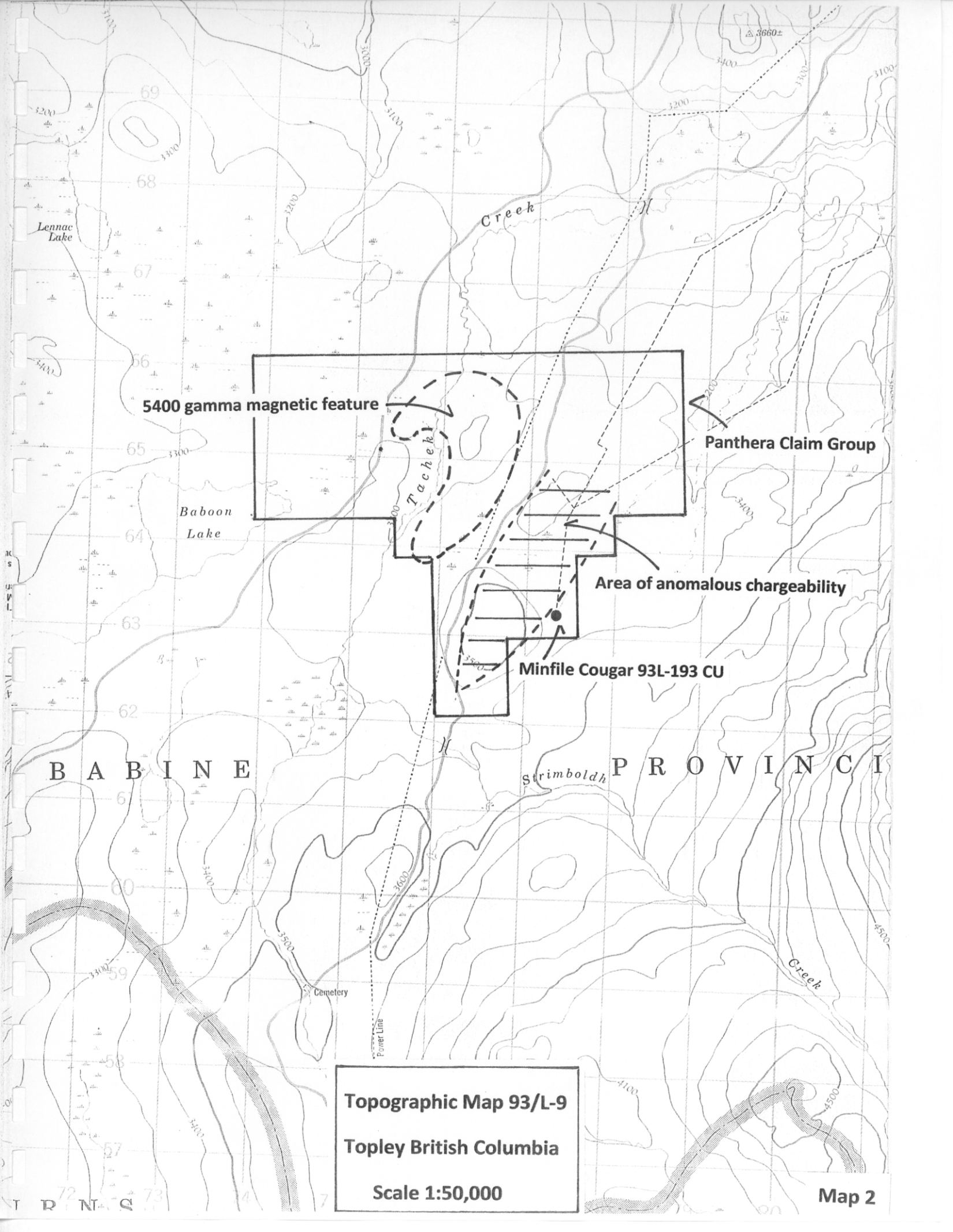
Minfile Occurrence Cougar, 093L 193 lies within the original Cougar claim group. The position of this copper showing is given as 606322 north x 677166 east and the location is plotted on Map 4. The actual location of this occurrence on the ground may be in fact further to the south east in the vicinity of pyritic hornfelsed volcanic rocks found sub cropping under moss and shallow overburden in hummocky terrain next to an old cat trail at 62430 north x 76570 east. This outcrop was entirely buried and showed no signs of prior excavation. Trenching by hand revealed a bedrock showing disseminated and fracture controlled pyrite in a reddish brown hornfelsed ash tuff. The reddish brown color may be due in part by the presence of secondary biotite. Large



Minfile Map 093L Smithers

Scale 1:250,000

Map 1



5400 gamma magnetic feature

Panthera Claim Group

Area of anomalous chargeability

Minfile Cougar 93L-193 CU

B A B I N E

Strimboldh P R O V I N C I

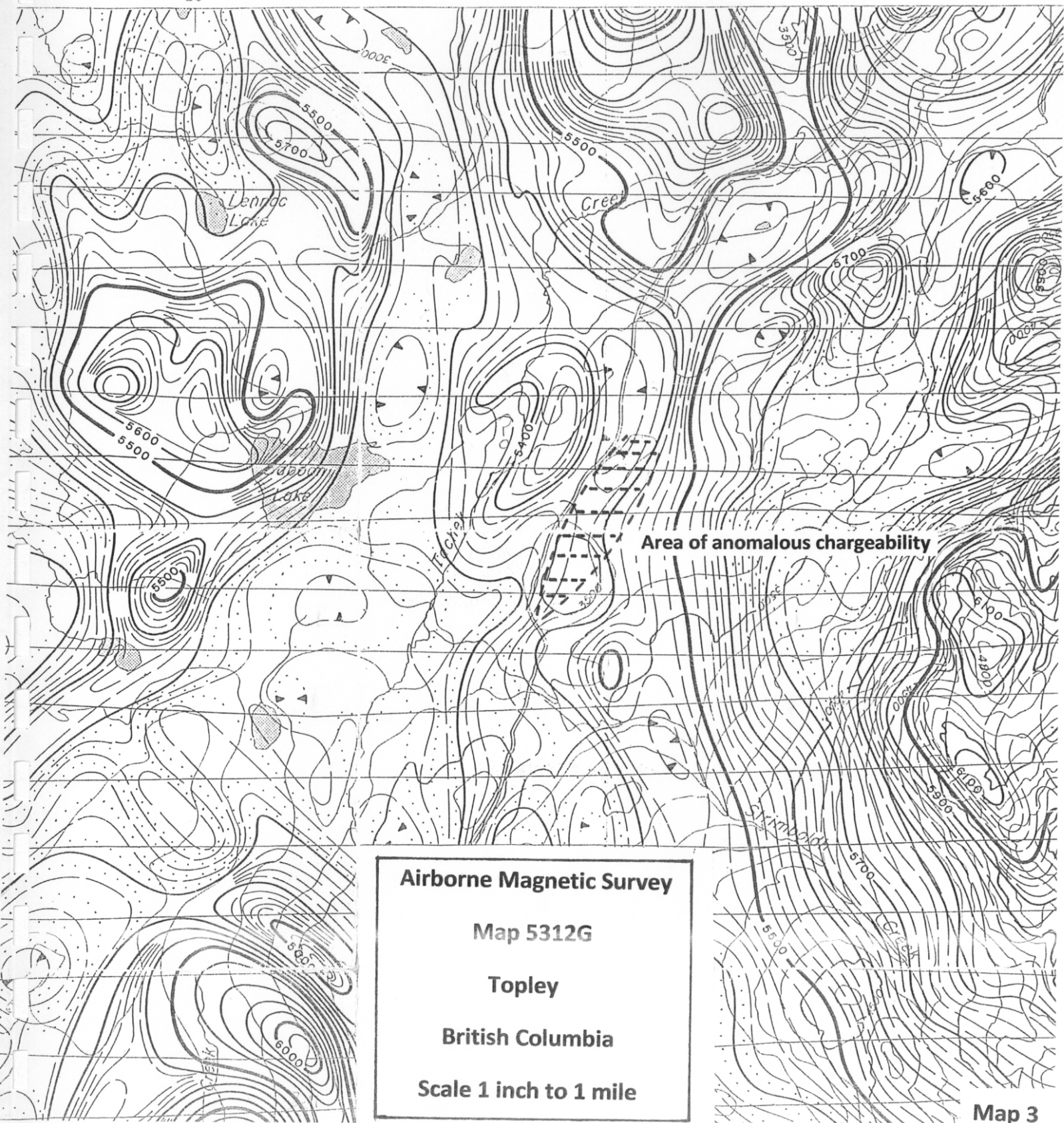
Topographic Map 93/L-9
Topley British Columbia
Scale 1:50,000

Map 2

Joining Map 5317G, Fullon Lake

20'

10'



Airborne Magnetic Survey

Map 5312G

Topley

British Columbia

Scale 1 inch to 1 mile

Map 3

angular boulders of a fine grained grey intrusive rock possibly quartz monzonite containing minor disseminated pyrite lie along an old cat trail 200m south west of this location. The meta-andesite is the only bedrock occurrence located within the area of anomalous chargeability found during the survey.

Sulphide mineralization was observed at three other locations in float rock. At 63103 north x 76432 east an angular boulder of dark grey black chlorite/biotite/hornblende schist containing 1-2% disseminated and fracture controlled pyrite was found on an old logging landing. Weathered felsic boulders in drift near a hill top at 65000 north x 77500 east may contain relic disseminated pyrite. On the power line right of way at 65243 north x 76882 east there are several large angular boulders of green andesite porphyry. These boulders host minor disseminated pyrite and chalcopyrite. While the sulphide content is slight it could be significant since the location is outside the zone of anomalous chargeability as presently defined. Large float rock was only observed in areas where the overburden has been mechanically disturbed.

4.0 Geochemical Program

A geochemical reconnaissance soil survey was carried out on the Panthera claims to assess the potential of this technique to detect the presence of metals in the underlying bedrock. A total of 140 samples were collected, of which 136 were soil or bog samples and 4 were stream sediment samples.

4.1 Summary

Little underlying mineralization is indicated by the geochemical soil survey except where the overburden is thin and residual soils were sampled. Background copper values are about average of those found in the Hazelton formation.

Panthera Copper in Soil (ppm).

Background average 11.7

Median 9.0

Maximum 83

Threshold 90th percentile 19.0

Sample locations with corresponding copper values in ppm are plotted on Map# 4. A table of the pathfinder elements tested for is included in the appendix.

4.2 Geochemical Survey Design and Orientation

On the Panthera claim group the soils vary from well drained regosol on the hills to thick peat bogs in the topographic lows. Bogs were generally not sampled since their bottoms were beyond reach of a soil sampler with a 2m extension. Normally the "B" soil horizon was sampled

using a grub hoe or stoney auger. Samples were packed in "kraft" paper envelopes and delivered to the Assayers Canada facility in Smithers B.C. for processing. Samples were analyzed for a suit of pathfinder elements using the ICP technique. Samples were taken at 50m intervals on lines with 500m spacing (see map #4). The lines were run by compass and hip chain with station locations controlled by GPS. Notes were taken at each sample site to record the soil characteristics, sample depth and GPS location. Lines 62500N to 64500N test the soils that overlie the zone of anomalous chargeability. Lines 65000N and 65500N are north and south of the mineralized float found on the power line right of way and extend west toward the aero magnetic anomaly. A portion of line 65000 was moved south to avoid a swamp.

4.3 Discussion

The bulk of the soil samples consist of silty sand and gravel. Residual soils that contain abundant locally derived angular rock fragments were encountered at only one sample site on line 62500 north at station 76600 east. The value of 75 ppm copper obtained at this location suggests that the underlying rock here contains anomalous copper mineralization. Other above threshold values are isolated highs and may be due to accumulations associated with organic processes. For example the point anomaly of 84 ppm copper at 64750 north x 76600 east is from a drainage containing significant clay and organic matter. However this drainage also lies down slope from the north end of the induced polarization anomaly and may be testing underlying mineralization in that area. It is interesting to note that 12 of the 15 sample sites that test at or above the threshold value of 19 ppm cu are located north of this drainage on lines 65000N and 65500N. At most sites the bedrock response may be inhibited by thick accumulations of impervious clay-rich glacial deposits as observed along the road cuts. If this is the case broad areas of potential economic mineralization might not be detected by conventional soil sampling. Furthermore narrow vein type mineralization could have been missed due to the widely spaced sample lines.

4.4 Recommendations

Since no significant metal in soil anomaly was detected further soil sampling is not recommended on the Panthers claims. The method may not have sampled the underlying bedrock over the majority of the induced polarization anomaly due to the presence of extensive overburden.

5.0 Historical Induced Polarization Survey

In July 1971 an induced polarization survey ordered by Nittetsu Mining Company. The survey was conducted by Mcphar Geophysics using a dipole-dipole array with an electrode spacing of 200ft. (n=4) over the grid plotted on map #4. A broad zone of anomalous chargeability was outlined. This zone extends from lines 2400 south to 6400 north and is open to the north-east and possibly north-west directions. Historical data was recorded as resistivity in ohm-feet and chargeability as frequency effect and plotted in psuedosection for resistivity, percent frequency

effect and metal factor. A McPhar high power IP unit operating at 0.3 and 5.0 Hz was used for the survey.

5.1 Review of Historical Data

Historical data was reviewed and used to create two-dimensional (2-D) resistivity and induced polarization models of the subsurface using the RESDINV program. Models were created for each line of the Nittetsu survey from lines 800 south to 6400 north and are located in the appendix.

5.2 Discussion

Re-interpretation of old data to produce a quantitative model by 2-D Inversion can sometimes shed new light on geological structures. Based upon the results of the 1971 survey, Mcphar suggested that 4 test holes be drilled at the following locations.

Suggested 1971 drill hole locations:

- 1) Line 4800N collared at 22w at 45 degrees to the west to a depth 400 feet below 26w.
- 2) Line 4000N inclined hole under 12w to a depth of 200 feet.
- 3) Line 800N to test the anomaly 100 feet below 19w.
- 4) Line 800 N to test the anomaly 100 feet below 6w.

There is no public record of a drill program having been completed on the property however the positions of the suggested 1971 holes were plotted on each respective 2-D model section to see how effectively that they would have tested the anomaly if drilled as proposed.

The depth to the top of the anomaly on line 4800N is about 135 feet and the suggested D.D. hole is long enough to have tested the target (see 2-D section 4800N in Appendix). However it may have missed the zone of highest chargeability west of the collar.

Depth to top of anomaly on line 4000N (see 2-D section in Appendix) is also 135 feet and the suggested drill hole might have just been deep enough to test however a longer hole here would have been more effective. The portion of the anomaly lying beneath 33w would not have been tested.

The two 100 ft. drill holes planned on line 800N (see 2-D section in Appendix) appear too short to test the anomaly at depth, particularly at 19w. This hole may also miss a near surface zone of high chargeability predicted at 17w. This near surface zone has very low resistivity and might not be an IP effect related to sulphide mineralization.

At 6w on line 800N there are no bedrock exposures however shallow overburden is predicted by high near surface resistivity. Green andesitic tuff is exposed under shallow overburden in a road cut 300 feet south-west of 2w-800N.

Near surface bedrock conditions are indicated east of 0-800S. Under this station an anomalous chargeability zone is predicted to occur at a depth of 135 feet. 300 feet south-west of this location pyritic hornfels sub crops under shallow overburden. The anomaly on line 800S may be an extension of this zone.

Resistivity contours suggest a progressive thickening of the overburden from the south-east to the north-west and toward the valley of Tachek creek. Correspondingly there are no bedrock occurrences north of line 800N that can indicate the nature of the causative body in that direction.

5.3 Recommendations

A pole-dipole induced polarization survey should be conducted over the terrain using a larger electrode spacing and $n=5$ to determine if the anomaly has continuity at depth. The survey should include the terrain flanking the magnetic anomaly beyond line 6400N. If results are encouraging drill testing may be considered to test the nature of the causative body.

Conclusions

6.0 The Panthera induced polarization anomaly is an untested geophysical feature in a terrain prospective for large tonnage porphyry copper deposits. The anomaly is positioned at the intersection of two trends that host copper/molybdenum prospects. Along the south east trend is Thezar West minfile 93L-190, Thezar East 93L-191 and Baboon Lake 93L-243. The north-east trend toward Babine Lake hosts minfile occurrences 93L-193, 213, 242, 307, 144, 315 and 215. These trends may be faulted crustal zones of weakness that have localized intrusive stocks and related mineralization.

"Serpentinization" intersected in a 1969 test hole could be highly propylitized mafic volcanic rocks peripheral to a large porphyry system. Pyritic hornfels within the zone of anomalous chargeability may also be part of this system. In the Babine porphyry belt the presence of a mineralized porphyry intrusion is often indicated by the presence of a pyritic halo within a hornfels zone. If drilled the relatively short holes proposed in 1971 may not have effectively tested the causative body.

Due to the extensive cover geophysical techniques should be used to further define the extents and continuity of the induced polarization anomaly. This work might also be carried out in the vicinity of the magnetic feature to determine if there is a relationship.

Appendix

A-1	Expenses	
1)	\$5,000	Prospecting and Sample Taking
2)	\$1,200	Sample Analysis
3)	\$1,500	Report
4)	<u>\$1,500</u>	Transportation
Total	\$9,200	

Appendix

A-2 Qualifications

This is to certify that I am a graduate of Queen's University at Kingston, Ontario, with a Bachelor of Science degree in Mining Engineering (1985). I am currently employed in the mineral exploration industry.

Steve Bell



November 2007

Appendix

A-3 Assays

Certificate Number	Sample Name	ICP Ag ppm	ICP Al %	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Bi ppm	ICP Ca %	ICP Cd ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Fe %	ICP Hg ppm	ICP K %
7S0088SJ	76250E 62500N	0.7	1.16	8	133	<0.5	<5	0.2	1	9	18	14	2.85	<1	0.03
7S0088SJ	76300E 62500N	0.5	1.26	5	127	<0.5	<5	0.19	1	7	16	8	2.7	<1	0.03
7S0088SJ	76350E 62500N	0.4	0.9	<5	89	<0.5	<5	0.14	1	6	13	5	2.06	<1	0.03
7S0088SJ	76400E 62500N	0.2	0.92	<5	95	<0.5	<5	0.18	1	6	13	5	2.21	<1	0.02
7S0088SJ	76450E 62500N	0.3	0.9	<5	131	<0.5	<5	0.18	1	6	13	4	2.04	<1	0.03
7S0088SJ	76500E 62500N	0.6	0.89	<5	109	<0.5	<5	0.15	1	5	13	4	1.68	<1	0.02
7S0088SJ	76550E 62500N	0.4	0.95	5	105	<0.5	<5	0.19	1	6	15	5	2.05	<1	0.03
7S0088SJ	76660E 62500N	1	4.02	12	982	1.4	<5	1.2	2	17	41	75	4.61	<1	0.06
7S0088SJ	76650E 62500N	0.5	2.03	22	102	0.5	<5	0.07	2	13	22	42	3.91	<1	0.03
7S0088SJ	76700E 62500N	0.5	2.15	12	146	<0.5	<5	0.1	2	13	21	11	3.61	<1	0.03
7S0088SJ	76750E 62500N	0.5	1.44	11	110	<0.5	<5	0.09	1	8	19	11	2.98	<1	0.02
7S0088SJ	76800E 62500N	0.5	1.04	6	109	<0.5	<5	0.32	1	7	17	2	2.19	<1	0.03
7S0088SJ	76250E 63000N	0.9	0.97	7	108	<0.5	<5	0.29	1	8	17	5	2.23	<1	0.04
7S0088SJ	76300E 63000N	0.3	1.16	11	107	<0.5	<5	0.22	1	9	19	8	3.16	<1	0.03
7S0088SJ	76350E 63000N	0.5	1.19	10	159	<0.5	<5	0.33	1	8	20	11	2.93	<1	0.04
7S0088SJ	76400E 63000N	<0.2	0.94	7	121	<0.5	<5	0.26	1	7	17	4	2.45	<1	0.03
7S0088SJ	76450E 63000N	0.6	0.96	5	120	<0.5	<5	0.2	1	8	16	5	2.24	<1	0.03
7S0088SJ	76500E 63000N	0.8	1.23	8	139	<0.5	<5	0.23	1	7	18	8	2.62	<1	0.03
7S0088SJ	76550E 63000N	0.4	0.86	5	83	<0.5	<5	0.15	1	6	14	3	2.18	<1	0.02
7S0088SJ	76600E 63000N	0.3	1.16	6	113	<0.5	<5	0.16	1	6	15	5	2.25	<1	0.02
7S0088SJ	76650E 63000N	0.8	1.21	8	116	<0.5	<5	0.19	1	6	17	6	2.46	<1	0.03
7S0088SJ	76700E 63000N	0.4	0.98	<5	105	<0.5	<5	0.18	1	5	12	3	1.67	<1	0.02
7S0088SJ	76750E 63000N	0.2	1.03	5	126	<0.5	<5	0.2	1	6	15	4	2.03	<1	0.03
7S0088SJ	76800E 63000N	0.4	1.11	<5	111	<0.5	<5	0.17	1	5	14	5	2.05	<1	0.02
7S0088SJ	76850E 63000N	0.4	1.15	5	92	<0.5	<5	0.14	1	5	13	5	2.3	<1	0.03
7S0088SJ	76900E 63000N	0.4	1.11	<5	126	<0.5	<5	0.17	1	6	14	5	2.16	<1	0.03
7S0088SJ	76350E 63500N	0.5	1.13	9	131	<0.5	<5	0.39	1	9	22	9	2.86	<1	0.05
7S0088SJ	76400E 63500N	0.2	1.1	9	108	<0.5	<5	0.3	1	8	19	8	2.69	<1	0.04
7S0088SJ	76450E 63500N	0.3	0.94	6	85	<0.5	<5	0.26	1	8	17	4	2.3	<1	0.04
7S0088SJ	76500E 63500N	0.7	1.54	13	187	<0.5	<5	0.48	2	11	25	16	3.52	<1	0.07
7S0088SJ	76550E 63500N	<0.2	1.13	7	100	<0.5	<5	0.28	1	8	17	8	2.33	<1	0.04
7S0088SJ	76600E 63500N	0.7	1.49	10	115	<0.5	<5	0.19	1	11	21	13	3.27	<1	0.03
7S0088SJ	76650E 63500N	0.6	1.07	8	112	<0.5	<5	0.18	1	7	17	7	2.64	<1	0.03
7S0088SJ	76700E 63500N	1	0.94	6	60	<0.5	<5	0.15	1	6	15	4	2.16	<1	0.03
7S0088SJ	76750E 63500N	0.4	1.35	6	99	<0.5	<5	0.2	1	7	18	9	2.44	<1	0.04
7S0088SJ	76800E 63500N	0.5	0.96	<5	93	<0.5	<5	0.16	1	6	14	4	2.07	<1	0.03
7S0088SJ	76850E 63500N	0.2	1.24	6	115	<0.5	<5	0.35	1	9	21	9	2.93	<1	0.05
7S0088SJ	76900E 63500N	0.5	1.22	<5	96	<0.5	<5	0.18	1	7	17	7	2.51	<1	0.03
7S0088SJ	76950E 63500N	0.5	1.24	6	138	<0.5	<5	0.41	1	9	24	11	2.61	<1	0.04
7S0088SJ	77000E 63500N	0.5	1.67	7	153	<0.5	<5	0.17	1	11	19	16	3.01	1	0.04
7S0088SJ	77050E 63500N	0.7	1.15	<5	111	<0.5	<5	0.23	1	6	14	6	1.9	<1	0.03
7S0088SJ	77100E 63500N	0.3	1.6	7	208	<0.5	<5	0.45	1	9	22	16	2.9	<1	0.04
7S0088SJ	76600E 64000N	0.9	1.2	7	114	<0.5	<5	0.21	1	8	18	10	2.86	1	0.03
7S0088SJ	76650E 64000N	0.9	1	5	152	<0.5	<5	0.21	1	7	16	6	2.21	<1	0.02
7S0088SJ	76700E 64000N	0.4	0.82	<5	86	<0.5	<5	0.24	1	7	16	3	2.06	<1	0.03
7S0088SJ	76750E 64000N	0.2	1.64	9	146	<0.5	<5	0.16	2	10	17	8	3.25	<1	0.04
7S0088SJ	76800E 64000N	0.5	1.61	10	149	<0.5	<5	0.17	1	10	20	12	3.09	<1	0.03
7S0088SJ	76850E 64000N	<0.2	1.49	9	125	<0.5	<5	0.2	1	9	23	12	3.08	<1	0.03
7S0088SJ	76900E 64000N	0.5	1.66	13	327	0.6	<5	0.62	2	17	27	24	4.04	1	0.05

Certificate Number	Sample Name	ICP La ppm	ICP Mg %	ICP Mn ppm	ICP Mo ppm	ICP Na %	ICP Ni ppm	ICP P ppm	ICP Pb ppm	ICP S %	ICP Sb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP Ti %
7S0088SJ	76250E 62500N	<10	0.38	300	<2	0.01	15	455	7	<0.01	<5	3	<1	<5	0.05
7S0088SJ	76300E 62500N	<10	0.36	212	<2	0.01	14	514	<2	0.01	<5	3	1	<5	0.04
7S0088SJ	76350E 62500N	<10	0.29	166	<2	0.01	10	250	<2	0.01	<5	2	1	<5	0.04
7S0088SJ	76400E 62500N	<10	0.25	155	<2	0.01	9	469	4	<0.01	<5	2	2	<5	0.04
7S0088SJ	76450E 62500N	<10	0.27	211	<2	0.01	9	211	3	0.01	<5	2	1	<5	0.05
7S0088SJ	76500E 62500N	<10	0.3	166	<2	0.01	9	198	3	<0.01	<5	2	<1	<5	0.04
7S0088SJ	76550E 62500N	<10	0.35	187	<2	0.01	12	332	2	0.01	<5	2	<1	<5	0.04
7S0088SJ	76660E 62500N	57	0.86	866	<2	0.02	37	1197	2	0.06	8	29	66	<5	0.01
7S0088SJ	76650E 62500N	<10	0.39	266	<2	0.01	19	871	5	0.02	6	4	2	<5	0.03
7S0088SJ	76700E 62500N	<10	0.34	231	<2	0.01	22	835	2	0.01	<5	3	2	<5	0.03
7S0088SJ	76750E 62500N	<10	0.37	227	<2	0.01	15	569	3	0.01	<5	3	1	<5	0.03
7S0088SJ	76800E 62500N	<10	0.45	268	<2	0.01	13	596	3	0.01	<5	3	5	<5	0.05
7S0088SJ	76250E 63000N	<10	0.41	397	<2	0.01	13	544	6	0.01	<5	3	1	<5	0.04
7S0088SJ	76300E 63000N	<10	0.39	313	<2	0.01	15	556	4	<0.01	5	3	1	<5	0.05
7S0088SJ	76350E 63000N	10	0.42	406	<2	0.02	17	461	5	<0.01	<5	4	10	<5	0.05
7S0088SJ	76400E 63000N	<10	0.37	323	<2	0.01	13	400	3	<0.01	<5	3	1	<5	0.05
7S0088SJ	76450E 63000N	<10	0.35	428	<2	0.01	11	277	4	<0.01	<5	3	<1	<5	0.04
7S0088SJ	76500E 63000N	<10	0.4	367	<2	0.01	14	456	2	0.01	<5	3	<1	<5	0.03
7S0088SJ	76550E 63000N	<10	0.31	215	<2	0.01	10	237	3	<0.01	<5	2	<1	<5	0.04
7S0088SJ	76600E 63000N	<10	0.33	185	<2	0.01	12	355	2	<0.01	<5	2	<1	<5	0.03
7S0088SJ	76650E 63000N	<10	0.39	188	<2	0.01	13	400	2	0.01	<5	3	1	<5	0.03
7S0088SJ	76700E 63000N	<10	0.31	155	<2	0.01	9	257	4	<0.01	<5	2	<1	<5	0.04
7S0088SJ	76750E 63000N	<10	0.35	211	<2	0.01	12	328	5	0.01	<5	3	<1	<5	0.04
7S0088SJ	76800E 63000N	<10	0.28	167	<2	0.01	10	335	3	0.01	<5	2	<1	<5	0.05
7S0088SJ	76850E 63000N	<10	0.24	153	<2	0.01	9	482	4	0.01	<5	2	<1	<5	0.04
7S0088SJ	76900E 63000N	<10	0.3	180	<2	0.01	10	281	2	0.01	<5	2	<1	<5	0.04
7S0088SJ	76350E 63500N	10	0.44	354	<2	0.02	17	702	5	0.01	<5	5	11	<5	0.06
7S0088SJ	76400E 63500N	<10	0.39	324	<2	0.01	15	551	4	<0.01	<5	3	2	<5	0.06
7S0088SJ	76450E 63500N	<10	0.38	303	<2	0.01	12	443	4	<0.01	<5	3	<1	<5	0.06
7S0088SJ	76500E 63500N	11	0.53	590	<2	0.02	21	808	7	0.01	<5	6	17	<5	0.04
7S0088SJ	76550E 63500N	<10	0.4	311	<2	0.01	14	631	3	<0.01	<5	3	<1	<5	0.05
7S0088SJ	76600E 63500N	<10	0.45	341	<2	0.01	20	466	2	<0.01	6	4	2	<5	0.05
7S0088SJ	76650E 63500N	<10	0.33	237	<2	0.01	14	470	6	<0.01	<5	3	2	<5	0.04
7S0088SJ	76700E 63500N	<10	0.32	177	<2	0.01	10	356	4	0.01	<5	2	<1	<5	0.04
7S0088SJ	76750E 63500N	<10	0.42	233	<2	0.01	15	485	2	<0.01	<5	3	1	<5	0.04
7S0088SJ	76800E 63500N	<10	0.29	215	<2	0.01	11	346	2	<0.01	6	2	<1	<5	0.05
7S0088SJ	76850E 63500N	<10	0.49	380	<2	0.04	17	708	4	0.01	<5	4	7	<5	0.05
7S0088SJ	76900E 63500N	<10	0.36	224	<2	0.02	13	492	2	0.01	<5	3	1	<5	0.05
7S0088SJ	76950E 63500N	11	0.46	411	<2	0.02	18	631	5	0.01	<5	4	12	<5	0.05
7S0088SJ	77000E 63500N	<10	0.42	365	<2	0.01	19	491	6	0.01	6	4	1	<5	0.06
7S0088SJ	77050E 63500N	<10	0.33	178	<2	0.01	11	360	5	0.01	<5	2	<1	<5	0.04
7S0088SJ	77100E 63500N	<10	0.48	414	<2	0.02	19	452	5	0.01	<5	4	20	<5	0.02
7S0088SJ	76600E 64000N	<10	0.38	334	<2	0.01	13	643	3	<0.01	<5	3	1	<5	0.04
7S0088SJ	76650E 64000N	<10	0.33	242	<2	0.01	13	270	3	<0.01	<5	3	<1	<5	0.04
7S0088SJ	76700E 64000N	<10	0.34	211	<2	0.01	12	313	3	<0.01	<5	2	2	<5	0.05
7S0088SJ	76750E 64000N	<10	0.29	225	<2	0.01	16	990	6	0.01	<5	3	1	<5	0.05
7S0088SJ	76800E 64000N	<10	0.39	259	<2	0.01	18	694	3	0.01	<5	4	1	<5	0.04
7S0088SJ	76850E 64000N	<10	0.44	279	<2	0.01	20	628	3	<0.01	<5	4	1	<5	0.05
7S0088SJ	76900E 64000N	13	0.61	1392	<2	0.02	27	734	5	0.01	6	8	1	<5	0.02

Certificate Number	Sample Name	ICP Ti ppm	ICP U ppm	ICP V ppm	ICP W ppm	ICP Zn ppm	ICP Zr ppm
7S0088SJ	76250E 62500N	<10	<10	55	<10	56	3
7S0088SJ	76300E 62500N	<10	<10	51	<10	63	2
7S0088SJ	76350E 62500N	<10	<10	42	<10	55	1
7S0088SJ	76400E 62500N	<10	<10	46	<10	46	2
7S0088SJ	76450E 62500N	<10	<10	43	<10	50	2
7S0088SJ	76500E 62500N	<10	<10	39	<10	50	2
7S0088SJ	76550E 62500N	<10	<10	41	<10	48	2
7S0088SJ	76660E 62500N	<10	12	94	<10	101	11
7S0088SJ	76650E 62500N	<10	<10	69	<10	86	7
7S0088SJ	76700E 62500N	<10	<10	59	<10	72	5
7S0088SJ	76750E 62500N	<10	<10	51	<10	52	3
7S0088SJ	76800E 62500N	<10	<10	46	<10	48	3
7S0088SJ	76250E 63000N	<10	<10	45	<10	58	2
7S0088SJ	76300E 63000N	<10	<10	59	<10	74	3
7S0088SJ	76350E 63000N	<10	<10	55	<10	60	2
7S0088SJ	76400E 63000N	<10	<10	48	<10	57	2
7S0088SJ	76450E 63000N	<10	<10	45	<10	52	1
7S0088SJ	76500E 63000N	<10	<10	49	<10	68	2
7S0088SJ	76550E 63000N	<10	<10	45	<10	55	1
7S0088SJ	76600E 63000N	<10	<10	43	<10	59	2
7S0088SJ	76650E 63000N	<10	<10	48	<10	65	2
7S0088SJ	76700E 63000N	<10	<10	36	<10	47	2
7S0088SJ	76750E 63000N	<10	<10	40	<10	47	2
7S0088SJ	76800E 63000N	<10	<10	43	<10	47	3
7S0088SJ	76850E 63000N	<10	<10	46	<10	56	1
7S0088SJ	76900E 63000N	<10	<10	47	<10	54	1
7S0088SJ	76350E 63500N	<10	<10	53	<10	56	4
7S0088SJ	76400E 63500N	<10	<10	53	<10	55	3
7S0088SJ	76450E 63500N	<10	<10	47	<10	53	2
7S0088SJ	76500E 63500N	<10	<10	63	<10	70	5
7S0088SJ	76550E 63500N	<10	<10	45	<10	49	2
7S0088SJ	76600E 63500N	<10	<10	58	<10	69	3
7S0088SJ	76650E 63500N	<10	<10	49	<10	85	1
7S0088SJ	76700E 63500N	<10	<10	43	<10	49	2
7S0088SJ	76750E 63500N	<10	<10	45	<10	62	2
7S0088SJ	76800E 63500N	<10	<10	42	<10	53	2
7S0088SJ	76850E 63500N	<10	<10	54	<10	72	2
7S0088SJ	76900E 63500N	<10	<10	49	<10	78	2
7S0088SJ	76950E 63500N	<10	<10	50	<10	56	2
7S0088SJ	77000E 63500N	<10	<10	59	<10	83	3
7S0088SJ	77050E 63500N	<10	<10	44	<10	63	1
7S0088SJ	77100E 63500N	<10	<10	52	<10	105	2
7S0088SJ	76600E 64000N	<10	<10	54	<10	74	3
7S0088SJ	76650E 64000N	<10	<10	43	<10	61	1
7S0088SJ	76700E 64000N	<10	<10	42	<10	43	2
7S0088SJ	76750E 64000N	<10	<10	59	<10	87	4
7S0088SJ	76800E 64000N	<10	<10	55	<10	74	3
7S0088SJ	76850E 64000N	<10	<10	55	<10	71	3
7S0088SJ	76900E 64000N	<10	<10	66	<10	78	9

Certificate Number	Sample Name	ICP Ag ppm	ICP Al %	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Bi ppm	ICP Ca %	ICP Cd ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Fe %	ICP Hg ppm	ICP K %
7S0088SJ	76850E 64500N	0.4	1.19	8	113	<0.5	<5	0.17	1	9	18	8	2.85	<1	0.03
7S0088SJ	76900E 64500N	0.7	1.1	5	111	<0.5	<5	0.15	1	7	15	5	2.52	<1	0.03
7S0088SJ	76950E 64500N	0.8	1.36	8	129	<0.5	<5	0.17	1	8	16	6	2.98	<1	0.04
7S0088SJ	77000E 64500N	0.5	1.38	8	103	<0.5	<5	0.17	1	9	17	9	3	<1	0.04
7S0088SJ	77050E 64500N	1.1	1.49	7	145	<0.5	<5	0.18	1	9	14	9	2.55	1	0.03
7S0088SJ	77100E 64500N	0.7	1.11	7	91	<0.5	<5	0.13	1	7	15	4	2.61	1	0.03
7S0088SJ	77150E 64500N	0.8	1.01	6	94	<0.5	<5	0.13	1	7	15	5	2.5	<1	0.02
7S0088SJ	77200E 64500N	0.4	1.06	<5	128	<0.5	<5	0.16	1	7	14	5	2.19	<1	0.03
7S0088SJ	77250E 64500N	0.2	1.24	8	159	<0.5	<5	0.15	1	8	16	6	2.57	<1	0.03
7S0088SJ	77300E 64500N	0.5	1.73	9	114	<0.5	<5	0.12	1	8	19	6	2.95	<1	0.03
7S0088SJ	77350E 64500N	0.6	1.09	<5	123	<0.5	<5	0.29	1	7	17	4	2.17	<1	0.04
7S0088SJ	77400E 64500N	0.9	0.9	5	123	<0.5	<5	0.23	1	6	15	4	2.03	1	0.03
7S0088SJ	77550E 64500N	0.4	0.88	7	123	<0.5	<5	0.35	1	7	16	7	2.45	<1	0.03
7S0088SJ	77600E 64500N	0.7	1.43	9	197	<0.5	<5	0.32	1	8	18	8	2.78	1	0.03
7S0088SJ	77650E 64500N	0.6	1.68	7	143	<0.5	<5	0.16	1	10	18	8	2.66	<1	0.03
7S0088SJ	77700E 64500N	0.7	1.46	8	468	<0.5	<5	0.45	1	7	16	8	2.37	<1	0.04
7S0088SJ	76000E 64700N	0.4	0.86	<5	97	<0.5	<5	0.4	1	10	22	2	2.62	<1	0.03
7S0088SJ	76050E 64700N	1.6	1.12	8	175	<0.5	<5	0.27	1	9	22	4	2.84	<1	0.03
7S0088SJ	76100E 64700N	0.5	1.48	6	129	<0.5	<5	0.14	1	10	17	4	2.95	<1	0.03
7S0088SJ	76150E 64700N	0.6	1.59	10	122	<0.5	<5	0.19	1	12	20	9	3.4	1	0.03
7S0088SJ	76200E 64700N	0.6	1.14	5	132	<0.5	<5	0.21	1	8	15	5	2.31	<1	0.02
7S0088SJ	76250E 64700N	0.9	1.71	8	154	<0.5	<5	0.13	1	11	20	9	3.06	<1	0.03
7S0088SJ	76300E 64700N	0.6	1.35	5	149	<0.5	<5	0.21	1	9	21	7	2.63	1	0.02
7S0088SJ	76350E 64700N	<0.2	1.76	7	137	<0.5	<5	0.2	1	9	22	12	2.77	1	0.04
7S0088SJ	76400E 64700N	0.2	2.36	7	201	<0.5	<5	0.21	1	10	23	17	2.68	<1	0.05
7S0088SJ	76450E 64700N	0.3	1.7	16	143	<0.5	<5	0.35	2	14	27	13	3.9	<1	0.06
7S0088SJ	76500E 64700N	0.2	1.57	14	179	<0.5	<5	0.44	2	12	23	11	3.62	1	0.06
7S0088SJ	76550E 64700N	0.2	1.4	9	184	<0.5	<5	0.29	1	9	19	6	2.95	1	0.05
7S0088SJ	76650E 65000N	0.3	1.82	18	116	<0.5	<5	0.32	2	15	23	6	4.19	1	0.05
7S0088SJ	76700E 65000N	0.2	1.38	9	177	<0.5	<5	0.26	2	11	22	2	4.33	1	0.07
7S0088SJ	76750E 65000N	0.3	1.86	9	271	0.6	<5	0.32	2	12	25	20	3.56	<1	0.07
7S0088SJ	76800E 65000N	<0.2	1.18	9	148	<0.5	<5	0.27	1	9	19	11	2.78	<1	0.04
7S0088SJ	76850E 65000N	0.4	1.41	10	144	<0.5	<5	0.34	1	11	24	10	3.28	1	0.05
7S0088SJ	76900E 65000N	<0.2	1.22	9	111	<0.5	<5	0.34	1	9	18	11	2.69	<1	0.05
7S0088SJ	76950E 65000N	<0.2	1.33	7	138	<0.5	<5	0.31	1	9	20	10	2.3	<1	0.05
7S0088SJ	77000E 65000N	0.7	2.07	12	123	0.5	<5	0.17	2	12	24	7	3.69	1	0.04
7S0088SJ	77050E 65000N	<0.2	1.96	15	186	0.5	<5	0.24	2	14	27	15	3.84	<1	0.05
7S0088SJ	77100E 65000N	0.2	2.25	13	175	<0.5	<5	0.25	2	16	43	10	4.14	1	0.05
7S0088SJ	77250E 65000N	0.4	2.38	12	282	0.8	<5	0.38	2	14	30	72	4.27	<1	0.08
7S0088SJ	77300E 65000N	0.3	1.76	17	190	0.5	<5	0.38	2	14	24	27	3.7	1	0.07
7S0088SJ	77350E 65000N	<0.2	1.55	5	118	<0.5	<5	0.18	1	8	17	8	2.19	<1	0.04
7S0088SJ	77400E 65000N	<0.2	1.7	6	144	<0.5	<5	0.17	1	9	18	11	2.39	1	0.03
7S0088SJ	77450E 65000N	<0.2	1.87	9	133	<0.5	<5	0.18	1	9	20	9	3.05	1	0.04
7S0088SJ	77500E 65000N	<0.2	1.8	11	122	<0.5	<5	0.35	1	10	24	14	3.23	1	0.06
7S0088SJ	77550E 65000N	<0.2	1.25	9	195	<0.5	<5	0.42	1	11	19	14	2.63	<1	0.04
7S0088SJ	77600E 65000N	<0.2	1.69	7	268	<0.5	<5	0.53	1	15	25	7	3.53	<1	0.06
7S0088SJ	77650E 65000N	<0.2	2.52	13	223	<0.5	<5	0.16	2	14	33	9	4.44	1	0.05
7S0088SJ	77700E 65000N	0.7	1.22	11	127	<0.5	<5	0.14	1	10	17	10	3.12	<1	0.04
7S0088SJ	77750E 65000N	0.9	1.47	8	121	<0.5	<5	0.13	1	9	18	13	3	1	0.03

Certificate Number	Sample Name	ICP La ppm	ICP Mg %	ICP Mn ppm	ICP Mo ppm	ICP Na %	ICP Ni ppm	ICP P ppm	ICP Pb ppm	ICP S %	ICP Sb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP Ti %
7S0088SJ	76850E 64500N	<10	0.42	324	<2	0.01	15	546	<2	0.01	5	3	5	<5	0.04
7S0088SJ	76900E 64500N	<10	0.33	220	<2	0.01	11	441	2	<0.01	<5	3	5	<5	0.05
7S0088SJ	76950E 64500N	<10	0.34	329	<2	0.01	11	580	5	0.01	<5	3	4	<5	0.05
7S0088SJ	77000E 64500N	<10	0.34	283	<2	0.01	14	635	3	0.01	8	3	5	<5	0.05
7S0088SJ	77050E 64500N	<10	0.36	215	<2	0.01	15	382	<2	<0.01	<5	3	4	<5	0.05
7S0088SJ	77100E 64500N	<10	0.21	164	<2	0.01	10	624	3	0.01	5	2	5	<5	0.04
7S0088SJ	77150E 64500N	<10	0.28	234	<2	0.01	10	413	<2	<0.01	5	3	4	<5	0.04
7S0088SJ	77200E 64500N	<10	0.28	247	<2	0.01	10	275	<2	0.01	7	2	2	<5	0.04
7S0088SJ	77250E 64500N	<10	0.33	280	<2	0.01	14	410	<2	<0.01	<5	2	4	<5	0.04
7S0088SJ	77300E 64500N	<10	0.32	223	<2	0.01	14	1171	<2	0.01	<5	3	3	<5	0.03
7S0088SJ	77350E 64500N	<10	0.43	274	<2	0.01	13	457	<2	0.01	<5	3	3	<5	0.04
7S0088SJ	77400E 64500N	<10	0.36	224	<2	0.01	11	357	<2	<0.01	5	2	4	<5	0.04
7S0088SJ	77550E 64500N	<10	0.39	382	<2	0.02	13	688	4	<0.01	<5	4	3	<5	0.06
7S0088SJ	77600E 64500N	<10	0.42	433	<2	0.01	14	374	<2	0.01	7	4	3	<5	0.04
7S0088SJ	77650E 64500N	<10	0.37	232	<2	0.01	18	756	<2	0.01	<5	3	5	<5	0.04
7S0088SJ	77700E 64500N	<10	0.33	275	<2	0.02	13	492	<2	0.02	<5	4	1	<5	0.02
7S0088SJ	76000E 64700N	<10	0.46	413	<2	0.01	14	791	2	0.01	5	3	2	<5	0.07
7S0088SJ	76050E 64700N	<10	0.43	309	<2	0.01	16	429	<2	<0.01	8	3	7	<5	0.05
7S0088SJ	76100E 64700N	<10	0.23	223	<2	0.01	12	1289	<2	0.01	9	3	6	<5	0.05
7S0088SJ	76150E 64700N	<10	0.36	766	<2	0.01	16	1410	3	0.01	5	3	6	<5	0.04
7S0088SJ	76200E 64700N	<10	0.41	205	<2	0.01	12	456	3	<0.01	7	3	6	<5	0.06
7S0088SJ	76250E 64700N	<10	0.39	239	<2	0.01	17	698	<2	0.01	7	3	6	<5	0.05
7S0088SJ	76300E 64700N	<10	0.43	259	<2	0.01	15	396	<2	<0.01	6	4	4	<5	0.06
7S0088SJ	76350E 64700N	<10	0.44	304	<2	0.01	16	612	<2	<0.01	<5	4	<1	<5	0.06
7S0088SJ	76400E 64700N	<10	0.51	257	<2	0.01	24	915	<2	0.01	6	4	2	<5	0.05
7S0088SJ	76450E 64700N	<10	0.55	483	<2	0.01	22	1377	2	0.01	9	4	5	<5	0.06
7S0088SJ	76500E 64700N	<10	0.48	463	<2	0.01	19	979	2	0.01	10	4	3	<5	0.06
7S0088SJ	76550E 64700N	<10	0.45	326	<2	0.02	15	523	<2	<0.01	6	4	4	<5	0.06
7S0088SJ	76650E 65000N	<10	0.63	448	<2	0.01	24	1280	4	0.01	9	4	4	<5	0.07
7S0088SJ	76700E 65000N	<10	0.29	532	<2	0.01	11	1990	6	0.01	10	3	4	<5	0.06
7S0088SJ	76750E 65000N	12	0.5	1095	<2	0.01	20	719	3	0.01	7	5	2	<5	0.04
7S0088SJ	76800E 65000N	<10	0.42	303	<2	0.01	15	466	<2	<0.01	9	4	6	<5	0.07
7S0088SJ	76850E 65000N	<10	0.56	559	<2	0.01	20	809	<2	0.01	10	3	6	<5	0.06
7S0088SJ	76900E 65000N	<10	0.44	387	<2	0.02	14	723	2	<0.01	7	3	<1	<5	0.07
7S0088SJ	76950E 65000N	<10	0.47	287	<2	0.02	16	595	<2	<0.01	5	3	2	<5	0.07
7S0088SJ	77000E 65000N	<10	0.31	236	<2	0.01	18	1196	<2	0.01	11	3	5	<5	0.06
7S0088SJ	77050E 65000N	<10	0.41	304	<2	0.01	22	1022	<2	<0.01	6	4	3	<5	0.07
7S0088SJ	77100E 65000N	10	0.65	377	<2	0.02	32	1688	<2	0.01	10	4	4	<5	0.1
7S0088SJ	77250E 65000N	11	0.43	1549	<2	0.01	21	1633	<2	0.02	13	5	1	<5	0.03
7S0088SJ	77300E 65000N	12	0.55	767	<2	0.02	21	933	3	0.01	10	7	3	<5	0.06
7S0088SJ	77350E 65000N	<10	0.44	224	<2	0.01	14	447	<2	<0.01	7	3	2	<5	0.05
7S0088SJ	77400E 65000N	<10	0.43	218	<2	0.01	16	456	<2	<0.01	7	3	3	<5	0.05
7S0088SJ	77450E 65000N	<10	0.39	236	<2	0.01	16	807	<2	0.01	5	4	2	<5	0.05
7S0088SJ	77500E 65000N	<10	0.59	310	<2	0.01	18	847	<2	0.01	8	4	2	<5	0.07
7S0088SJ	77550E 65000N	<10	0.35	424	<2	0.01	15	590	4	0.01	5	4	<1	<5	0.04
7S0088SJ	77600E 65000N	10	0.67	995	<2	0.03	20	690	4	0.01	10	4	2	<5	0.09
7S0088SJ	77650E 65000N	<10	0.5	366	<2	0.02	23	1052	<2	0.01	12	4	5	<5	0.08
7S0088SJ	77700E 65000N	<10	0.31	215	<2	0.01	14	536	2	<0.01	<5	3	<1	<5	0.05
7S0088SJ	77750E 65000N	<10	0.32	248	<2	0.01	17	622	<2	<0.01	7	3	<1	<5	0.04

Certificate Number	Sample Name	ICP Ti ppm	ICP U ppm	ICP V ppm	ICP W ppm	ICP Zn ppm	ICP Zr ppm
7S0088SJ	76850E 64500N	12	<10	54	<10	82	2
7S0088SJ	76900E 64500N	<10	12	51	<10	64	3
7S0088SJ	76950E 64500N	13	12	63	<10	65	4
7S0088SJ	77000E 64500N	<10	12	60	<10	71	3
7S0088SJ	77050E 64500N	<10	14	52	<10	64	4
7S0088SJ	77100E 64500N	14	<10	54	<10	56	4
7S0088SJ	77150E 64500N	<10	<10	52	<10	53	2
7S0088SJ	77200E 64500N	<10	10	46	<10	52	2
7S0088SJ	77250E 64500N	<10	10	52	<10	69	2
7S0088SJ	77300E 64500N	<10	14	52	<10	81	4
7S0088SJ	77350E 64500N	<10	12	42	<10	49	2
7S0088SJ	77400E 64500N	<10	<10	41	<10	45	2
7S0088SJ	77550E 64500N	<10	<10	48	<10	47	3
7S0088SJ	77600E 64500N	<10	<10	58	<10	77	2
7S0088SJ	77650E 64500N	<10	<10	47	<10	86	2
7S0088SJ	77700E 64500N	<10	<10	47	<10	77	2
7S0088SJ	76000E 64700N	<10	<10	58	<10	63	4
7S0088SJ	76050E 64700N	<10	11	57	<10	57	3
7S0088SJ	76100E 64700N	<10	17	57	<10	76	3
7S0088SJ	76150E 64700N	<10	<10	68	<10	91	4
7S0088SJ	76200E 64700N	<10	10	48	<10	55	3
7S0088SJ	76250E 64700N	10	11	61	<10	66	4
7S0088SJ	76300E 64700N	<10	13	58	<10	62	2
7S0088SJ	76350E 64700N	<10	<10	59	<10	67	2
7S0088SJ	76400E 64700N	<10	<10	53	<10	98	2
7S0088SJ	76450E 64700N	<10	<10	75	<10	112	5
7S0088SJ	76500E 64700N	12	<10	68	<10	107	3
7S0088SJ	76550E 64700N	<10	<10	60	<10	80	3
7S0088SJ	76650E 65000N	13	10	90	<10	141	4
7S0088SJ	76700E 65000N	<10	13	87	<10	161	3
7S0088SJ	76750E 65000N	<10	<10	66	<10	113	2
7S0088SJ	76800E 65000N	15	<10	58	<10	58	2
7S0088SJ	76850E 65000N	<10	<10	68	<10	83	2
7S0088SJ	76900E 65000N	<10	<10	56	<10	59	2
7S0088SJ	76950E 65000N	<10	12	49	<10	62	2
7S0088SJ	77000E 65000N	<10	16	72	<10	119	3
7S0088SJ	77050E 65000N	18	12	82	<10	96	4
7S0088SJ	77100E 65000N	<10	17	92	<10	95	6
7S0088SJ	77250E 65000N	<10	<10	73	<10	172	3
7S0088SJ	77300E 65000N	13	<10	70	<10	97	3
7S0088SJ	77350E 65000N	<10	<10	43	<10	63	3
7S0088SJ	77400E 65000N	<10	<10	46	<10	54	3
7S0088SJ	77450E 65000N	12	19	61	<10	76	3
7S0088SJ	77500E 65000N	<10	<10	66	<10	65	2
7S0088SJ	77550E 65000N	<10	<10	55	<10	72	2
7S0088SJ	77600E 65000N	12	<10	83	<10	106	3
7S0088SJ	77650E 65000N	12	12	95	<10	114	8
7S0088SJ	77700E 65000N	<10	<10	63	<10	54	5
7S0088SJ	77750E 65000N	<10	<10	55	<10	63	5

Certificate Number	Sample Name	ICP Ag ppm	ICP Al %	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Bi ppm	ICP Ca %	ICP Cd ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Fe %	ICP Hg ppm	ICP K %
7S0088SJ	77800E 6500N	1.5	1.36	8	103	<0.5	<5	0.15	1	9	19	12	3.14	1	0.03
7S0088SJ	76000E 6550N	0.4	1.16	<5	170	<0.5	<5	0.49	1	11	25	13	2.59	1	0.03
7S0088SJ	76050E 6550N	2.2	1.44	<5	250	<0.5	<5	0.49	1	10	24	8	2.91	<1	0.03
7S0088SJ	76150E 6550N	1	1.53	6	313	<0.5	<5	0.67	1	7	18	11	2.84	<1	0.03
7S0088SJ	76200E 6550N	0.6	1.25	8	161	<0.5	<5	0.18	1	9	15	13	2.82	<1	0.03
7S0088SJ	76250E 6550N	0.7	1.81	10	170	<0.5	<5	0.17	1	11	18	21	3.26	<1	0.03
7S0088SJ	76300E 6550N	1.1	1.32	<5	146	<0.5	<5	0.11	1	7	14	4	2.33	1	0.02
7S0088SJ	76350E 6550N	0.8	1.14	<5	166	<0.5	<5	0.15	1	6	13	8	2.18	<1	0.02
7S0088SJ	76400E 6550N	0.6	1.37	5	214	<0.5	<5	0.16	1	7	14	23	2.37	<1	0.03
7S0088SJ	76450E 6550N	0.4	2.1	11	178	<0.5	<5	0.14	1	11	19	17	3.22	1	0.03
7S0088SJ	76500E 6550N	0.7	1.29	5	210	<0.5	<5	0.18	1	7	13	7	2.2	<1	0.02
7S0088SJ	76550E 6550N	0.6	1.74	13	129	<0.5	<5	0.16	1	11	19	16	3.45	<1	0.03
7S0088SJ	76600E 6550N	1.2	1.96	14	412	0.5	<5	0.34	2	12	22	31	3.75	<1	0.04
7S0088SJ	76645E 6550N	0.6	1.24	<5	184	<0.5	<5	0.72	1	13	21	11	2.15	<1	0.03
7S0088SJ	76650E 6550N	0.5	1.31	5	158	<0.5	<5	0.6	1	11	19	7	2.87	<1	0.05
7S0088SJ	76700E 6550N	0.5	1.54	11	288	<0.5	<5	0.39	1	10	22	16	3.45	<1	0.04
7S0088SJ	76750E 6550N	1	1.29	6	175	<0.5	<5	0.2	1	10	19	12	2.78	<1	0.04
7S0088SJ	76800E 6550N	<0.2	1.34	10	192	<0.5	<5	0.34	1	12	20	10	3.19	1	0.04
7S0088SJ	76850E 6550N	0.9	1.54	12	429	0.5	<5	0.56	2	14	26	35	3.58	1	0.05
7S0088SJ	76900E 6550N	0.9	1.64	12	205	<0.5	<5	0.18	2	13	18	13	3.64	<1	0.04
7S0088SJ	76950E 6550N	0.9	1.9	17	270	<0.5	<5	0.28	2	13	20	16	3.87	1	0.06
7S0088SJ	77000E 6550N	0.6	1.37	10	239	<0.5	<5	0.37	1	10	18	19	3.26	<1	0.03
7S0088SJ	77050E 6550N	0.5	1.39	15	187	<0.5	<5	0.35	2	11	20	18	3.52	<1	0.04
7S0088SJ	77100E 6550N	0.8	1.2	11	158	<0.5	<5	0.42	2	10	19	11	3.29	<1	0.04
7S0088SJ	77150E 6550N	0.8	1.53	7	272	0.5	<5	0.32	1	7	15	14	2.68	<1	0.03
7S0088SJ	77200E 6550N	1	1.97	11	229	0.6	<5	0.29	1	9	24	31	3.25	<1	0.06
7S0088SJ	77250E 6550N	0.4	1.17	<5	169	<0.5	<5	0.3	1	7	14	11	2.1	<1	0.03
7S0088SJ	77300E 6550N	0.8	1.24	9	200	<0.5	<5	0.47	1	9	18	11	2.88	<1	0.04
7S0088SJ	77350E 6550N	0.2	1.39	9	226	<0.5	<5	0.43	1	9	18	10	2.97	<1	0.03
7S0088SJ	77400E 6550N	0.3	1.63	10	285	<0.5	<5	0.25	1	8	15	11	2.76	<1	0.02
7S0088SJ	77450E 6550N	0.5	0.99	5	149	<0.5	<5	0.31	1	7	13	5	2.08	<1	0.03
7S0088SJ	77500E 6550N	0.8	1.11	7	167	<0.5	<5	0.41	1	9	16	7	2.6	<1	0.04
7S0088SJ	77550E 6550N	0.6	1.38	9	262	<0.5	<5	0.65	1	9	20	14	3.18	<1	0.05
7S0088SJ	77600E 6550N	0.2	1.1	7	173	<0.5	<5	0.37	1	8	16	12	2.67	<1	0.04
7S0088SJ	77650E 6550N	0.5	1.08	10	186	<0.5	<5	0.5	1	9	17	7	2.84	<1	0.04
7S0088SJ	77700E 6550N	0.9	1.28	12	209	<0.5	<5	0.53	1	9	19	10	3.24	<1	0.04
7S0088SJ	77750E 6550N	0.6	1.1	7	137	<0.5	<5	0.37	1	10	16	2	3.1	<1	0.03
7S0088SJ	77800E 6550N	0.5	1.74	23	269	0.5	<5	0.47	2	12	23	14	4.16	<1	0.04
7S0088SJ	77850E 6550N	1.1	1.69	9	405	0.5	<5	0.89	2	16	25	29	3.87	<1	0.04
7S0088SJ	76600E 6399N	0.7	1.57	16	244	<0.5	<5	0.66	2	11	24	9	4.03	<1	0.06
7S0088SJ	77725E 64495N	1.1	1.66	26	344	0.5	<5	0.58	3	16	25	19	6.2	<1	0.04
7S0088SJ	76600E 64750N	2.2	3.58	23	606	1.1	<5	1.18	3	15	39	83	5.51	<1	0.13

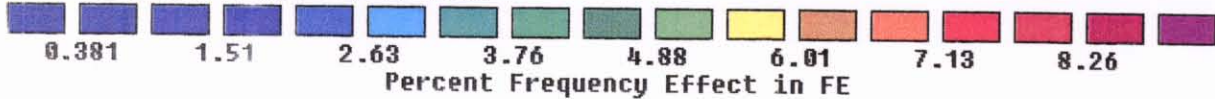
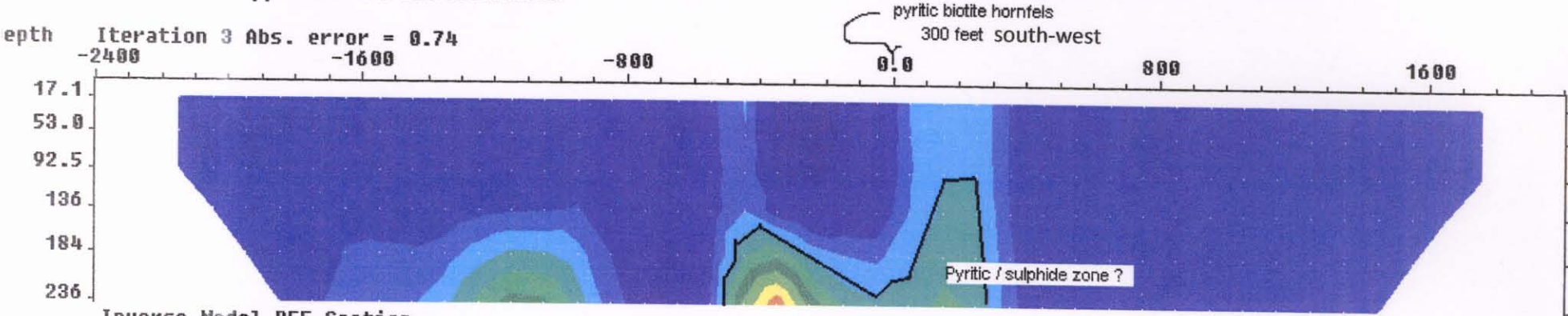
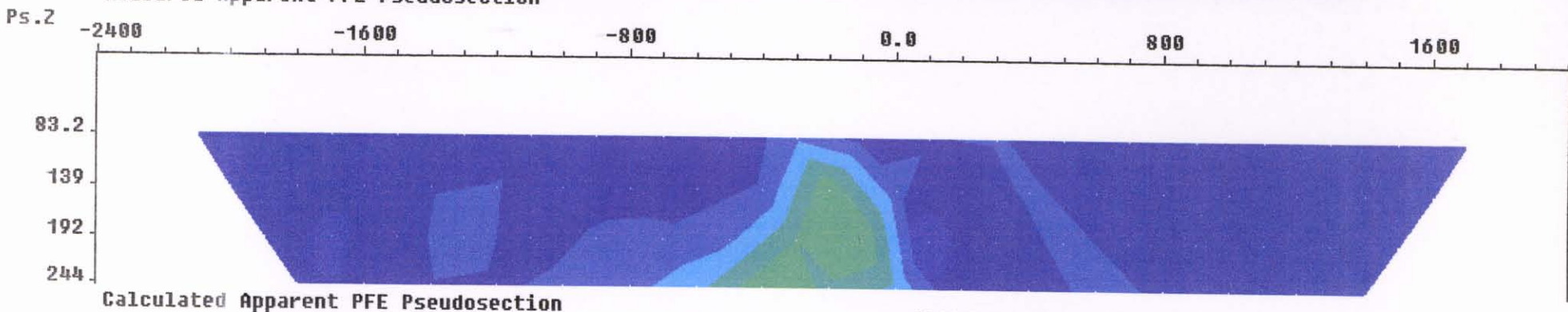
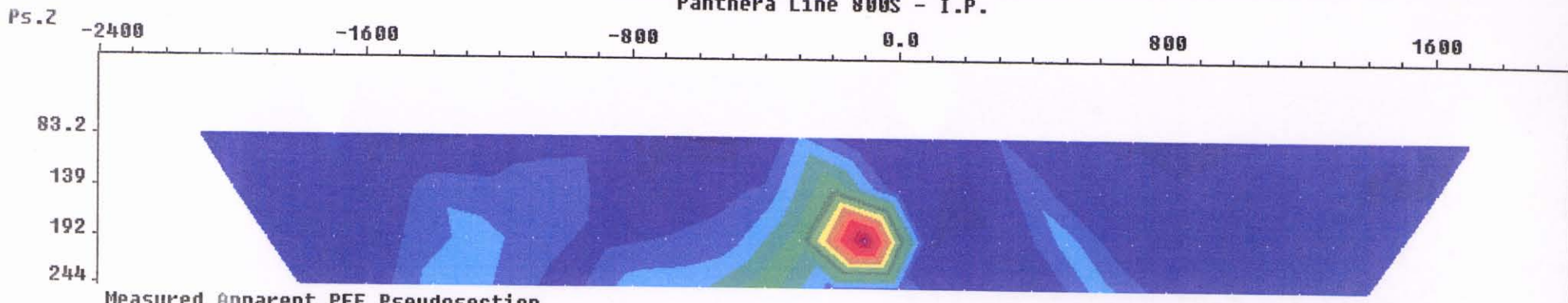
Certificate Number	Sample Name	ICP La ppm	ICP Mg %	ICP Mn ppm	ICP Mo ppm	ICP Na %	ICP Ni ppm	ICP P ppm	ICP Pb ppm	ICP S %	ICP Sb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP Ti %
7S0088SJ	77800E 65000N	<10	0.31	254	<2	0.01	14	774	3	<0.01	6	3	1	<5	0.04
7S0088SJ	76000E 65500N	10	0.52	352	<2	0.02	18	811	4	0.02	<5	5	<1	<5	0.05
7S0088SJ	76050E 65500N	<10	0.44	746	<2	0.02	16	747	2	0.01	5	4	5	<5	0.04
7S0088SJ	76150E 65500N	10	0.37	256	<2	0.02	14	577	2	0.02	7	5	<1	<5	0.04
7S0088SJ	76200E 65500N	<10	0.31	349	<2	0.01	14	582	<2	0.01	6	3	<1	<5	0.06
7S0088SJ	76250E 65500N	<10	0.39	283	<2	0.01	16	909	2	<0.01	<5	4	1	<5	0.05
7S0088SJ	76300E 65500N	<10	0.2	214	<2	0.01	11	649	<2	<0.01	5	2	1	<5	0.05
7S0088SJ	76350E 65500N	<10	0.25	210	<2	0.01	10	365	<2	<0.01	<5	2	<1	<5	0.05
7S0088SJ	76400E 65500N	<10	0.34	259	<2	0.01	14	463	2	<0.01	<5	3	<1	<5	0.04
7S0088SJ	76450E 65500N	<10	0.37	320	<2	0.01	20	1069	<2	0.01	<5	3	<1	<5	0.04
7S0088SJ	76500E 65500N	<10	0.28	199	<2	0.01	11	371	<2	<0.01	<5	2	<1	<5	0.05
7S0088SJ	76550E 65500N	<10	0.34	414	<2	0.01	17	1181	2	0.01	7	4	<1	<5	0.05
7S0088SJ	76600E 65500N	12	0.46	447	<2	0.02	21	659	2	0.01	8	8	<1	<5	0.06
7S0088SJ	76645E 65500N	<10	0.73	699	<2	0.02	17	729	<2	0.17	<5	5	<1	<5	0.07
7S0088SJ	76650E 65500N	10	0.58	274	<2	0.02	14	723	3	<0.01	6	6	<1	<5	0.07
7S0088SJ	76700E 65500N	<10	0.48	414	<2	0.03	18	400	3	0.01	6	6	<1	<5	0.05
7S0088SJ	76750E 65500N	<10	0.4	832	<2	0.04	15	534	2	0.01	<5	3	<1	<5	0.03
7S0088SJ	76800E 65500N	<10	0.45	557	<2	0.02	18	300	2	<0.01	5	4	<1	<5	0.04
7S0088SJ	76850E 65500N	10	0.54	2857	<2	0.03	27	387	3	0.01	<5	9	<1	<5	0.02
7S0088SJ	76900E 65500N	<10	0.35	305	<2	0.02	16	1076	3	0.01	5	3	1	<5	0.05
7S0088SJ	76950E 65500N	<10	0.42	468	<2	0.01	21	602	<2	0.01	7	4	1	<5	0.06
7S0088SJ	77000E 65500N	10	0.38	368	<2	0.02	15	550	5	0.01	5	5	<1	<5	0.06
7S0088SJ	77050E 65500N	<10	0.41	563	<2	0.01	15	499	6	0.01	<5	4	<1	<5	0.07
7S0088SJ	77100E 65500N	<10	0.43	442	<2	0.02	14	636	8	0.01	6	5	<1	<5	0.09
7S0088SJ	77150E 65500N	12	0.19	339	<2	0.01	9	323	2	0.01	<5	4	<1	<5	0.05
7S0088SJ	77200E 65500N	14	0.45	440	<2	0.01	20	683	4	0.01	5	6	<1	<5	0.04
7S0088SJ	77250E 65500N	<10	0.34	200	<2	0.01	11	334	5	0.01	<5	3	<1	<5	0.06
7S0088SJ	77300E 65500N	<10	0.44	289	<2	0.02	13	491	10	0.01	6	5	<1	<5	0.07
7S0088SJ	77350E 65500N	<10	0.46	312	<2	0.02	14	373	6	0.01	7	5	<1	<5	0.06
7S0088SJ	77400E 65500N	<10	0.36	206	<2	0.02	15	264	4	0.01	<5	3	1	<5	0.04
7S0088SJ	77450E 65500N	<10	0.36	215	<2	0.01	9	201	3	0.01	<5	3	<1	<5	0.06
7S0088SJ	77500E 65500N	<10	0.38	333	<2	0.02	13	587	6	0.01	<5	4	<1	<5	0.07
7S0088SJ	77550E 65500N	10	0.45	304	<2	0.02	15	673	6	0.01	5	7	11	<5	0.06
7S0088SJ	77600E 65500N	<10	0.36	273	<2	0.02	12	493	7	<0.01	5	4	<1	<5	0.07
7S0088SJ	77650E 65500N	<10	0.39	306	<2	0.02	12	332	4	0.01	<5	4	<1	<5	0.07
7S0088SJ	77700E 65500N	<10	0.42	391	<2	0.02	14	410	6	0.01	6	5	<1	<5	0.07
7S0088SJ	77750E 65500N	<10	0.51	395	<2	0.01	13	278	8	0.01	5	3	<1	<5	0.06
7S0088SJ	77800E 65500N	<10	0.51	469	<2	0.02	24	459	8	0.01	7	6	3	<5	0.06
7S0088SJ	77850E 65500N	11	0.61	1203	<2	0.02	20	758	6	0.03	<5	6	24	<5	0.04
7S0088SJ	76600E 63990N	<10	0.53	1681	<2	0.02	18	960	5	0.04	<5	5	21	<5	0.02
7S0088SJ	77725E 64495N	13	0.66	817	<2	0.02	18	1175	8	0.02	7	9	6	<5	0.03
7S0088SJ	76600E 64750N	32	0.83	985	<2	0.02	44	1399	<2	0.05	6	19	51	<5	0.01

Certificate Number	Sample Name	ICP TI ppm	ICP U ppm	ICP V ppm	ICP W ppm	ICP Zn ppm	ICP Zr ppm
7S0088SJ	77800E 6500N	<10	<10	60	<10	61	5
7S0088SJ	76000E 6550N	<10	<10	57	<10	81	4
7S0088SJ	76050E 6550N	<10	<10	56	<10	101	4
7S0088SJ	76150E 6550N	<10	<10	54	<10	54	4
7S0088SJ	76200E 6550N	<10	<10	56	<10	58	4
7S0088SJ	76250E 6550N	<10	<10	64	<10	71	4
7S0088SJ	76300E 6550N	<10	<10	50	<10	77	2
7S0088SJ	76350E 6550N	<10	<10	45	<10	51	3
7S0088SJ	76400E 6550N	<10	<10	45	<10	57	4
7S0088SJ	76450E 6550N	<10	<10	56	<10	93	6
7S0088SJ	76500E 6550N	<10	<10	49	<10	49	2
7S0088SJ	76550E 6550N	<10	<10	64	<10	75	4
7S0088SJ	76600E 6550N	<10	<10	73	<10	81	4
7S0088SJ	76645E 6550N	<10	<10	53	<10	98	7
7S0088SJ	76650E 6550N	<10	<10	62	<10	54	4
7S0088SJ	76700E 6550N	<10	<10	65	<10	72	4
7S0088SJ	76750E 6550N	<10	<10	50	<10	75	2
7S0088SJ	76800E 6550N	<10	<10	54	<10	76	4
7S0088SJ	76850E 6550N	<10	<10	58	<10	74	7
7S0088SJ	76900E 6550N	<10	<10	72	<10	121	3
7S0088SJ	76950E 6550N	<10	<10	78	<10	72	3
7S0088SJ	77000E 6550N	<10	<10	69	<10	58	3
7S0088SJ	77050E 6550N	<10	<10	75	<10	74	2
7S0088SJ	77100E 6550N	<10	<10	74	<10	62	5
7S0088SJ	77150E 6550N	<10	<10	60	<10	69	2
7S0088SJ	77200E 6550N	<10	<10	59	<10	80	2
7S0088SJ	77250E 6550N	<10	16	48	<10	53	2
7S0088SJ	77300E 6550N	<10	14	63	<10	54	4
7S0088SJ	77350E 6550N	<10	11	63	<10	53	4
7S0088SJ	77400E 6550N	<10	<10	61	<10	70	2
7S0088SJ	77450E 6550N	<10	13	50	<10	56	2
7S0088SJ	77500E 6550N	<10	<10	60	<10	60	3
7S0088SJ	77550E 6550N	<10	14	63	<10	58	6
7S0088SJ	77600E 6550N	<10	<10	59	<10	54	3
7S0088SJ	77650E 6550N	<10	11	61	<10	46	3
7S0088SJ	77700E 6550N	<10	<10	67	<10	62	3
7S0088SJ	77750E 6550N	<10	<10	65	<10	75	4
7S0088SJ	77800E 6550N	<10	<10	83	<10	72	5
7S0088SJ	77850E 6550N	<10	<10	74	<10	92	5
7S0088SJ	76600E 6399N	<10	<10	64	<10	96	4
7S0088SJ	77725E 64495N	<10	<10	84	<10	73	8
7S0088SJ	76600E 64750N	<10	<10	80	<10	153	11

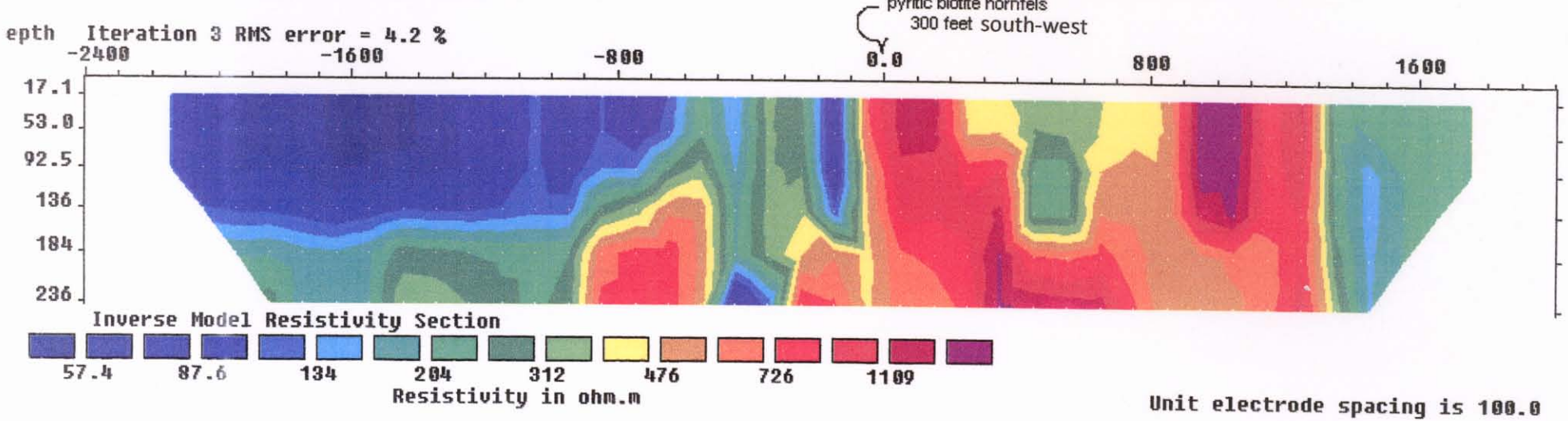
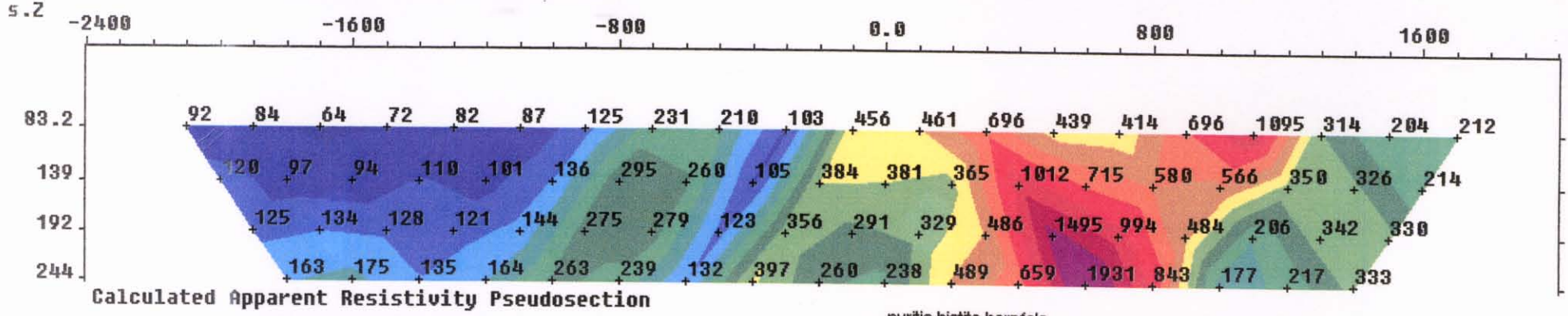
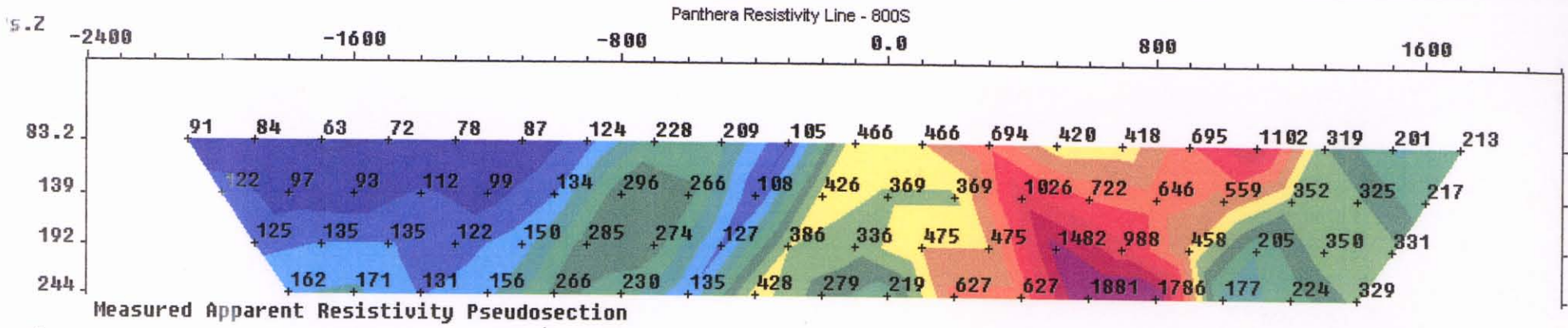
Appendix

A-4 2-D Induced Polarization Model Sections

Panthera Line 800S - I.P.



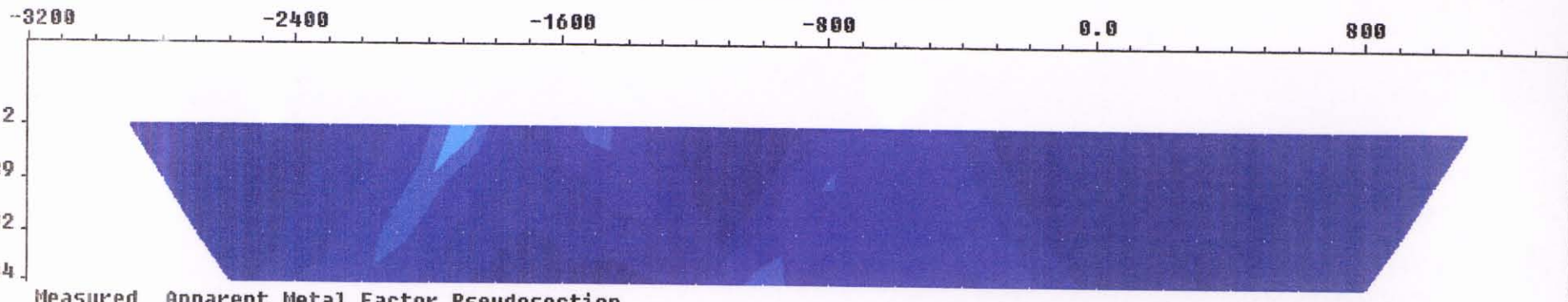
Unit electrode spacing is 100.0



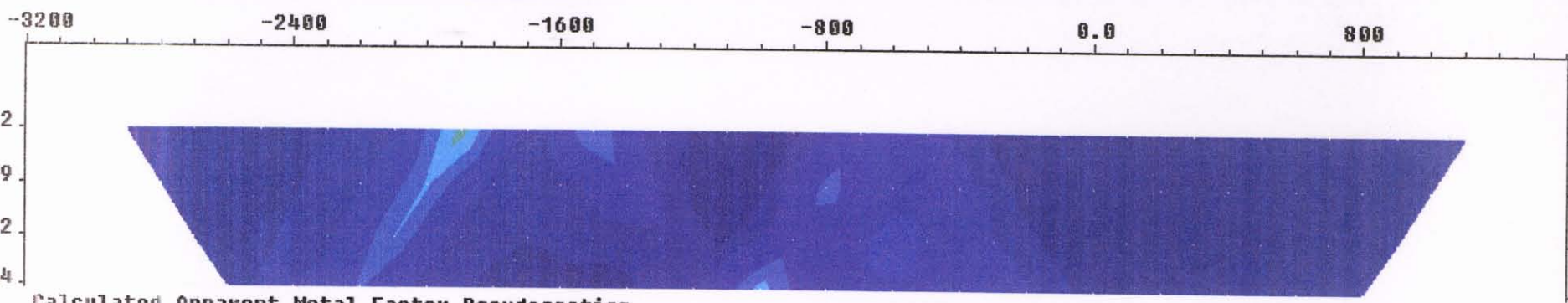
ID

Panthera Line 800 - I.P.

Ps.Z

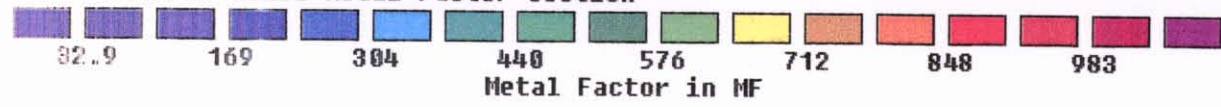
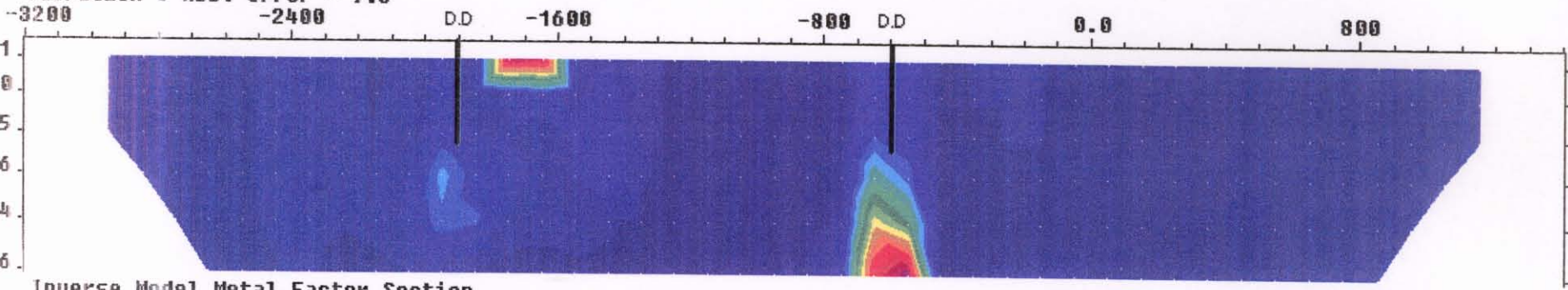


Ps.Z

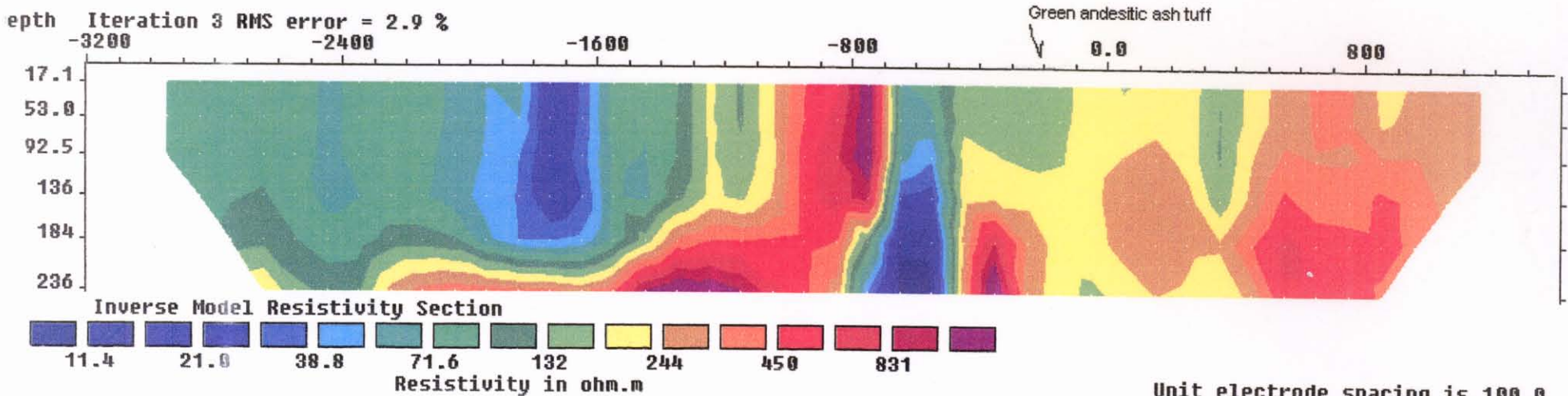
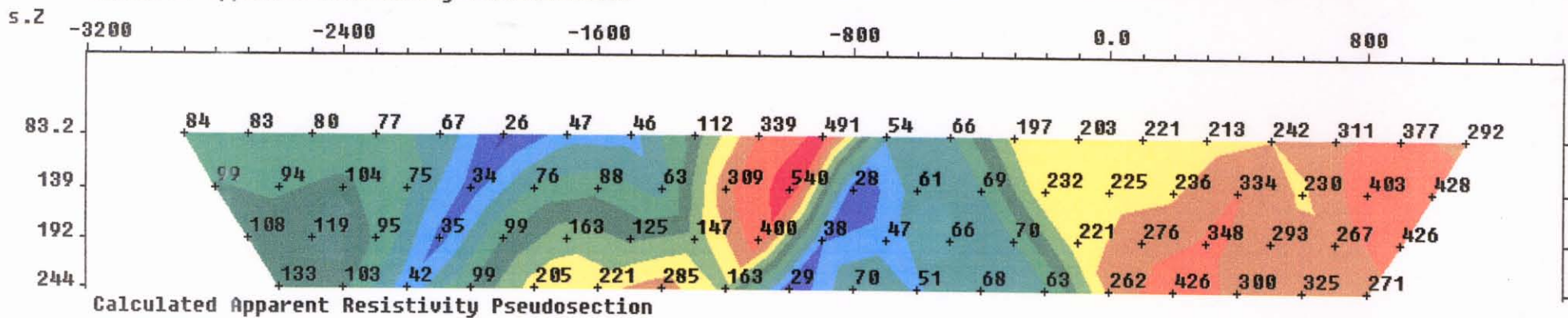
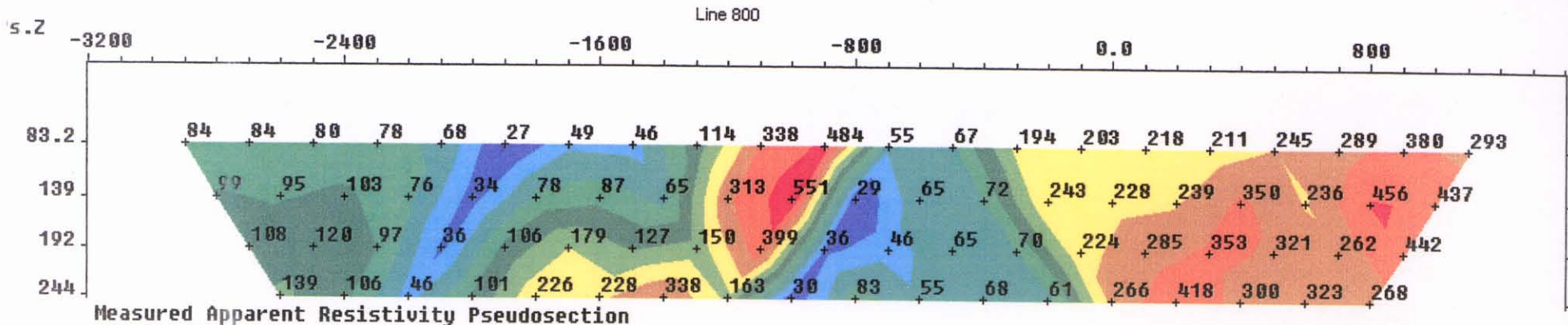


epth

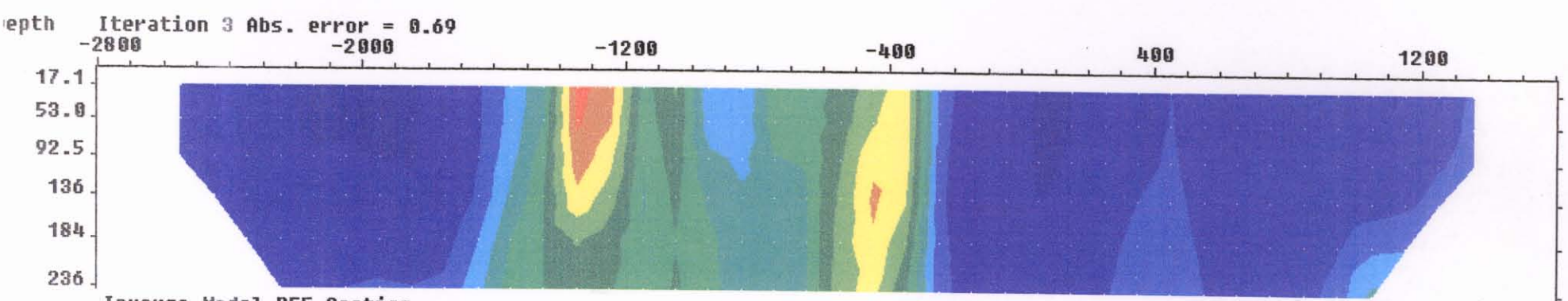
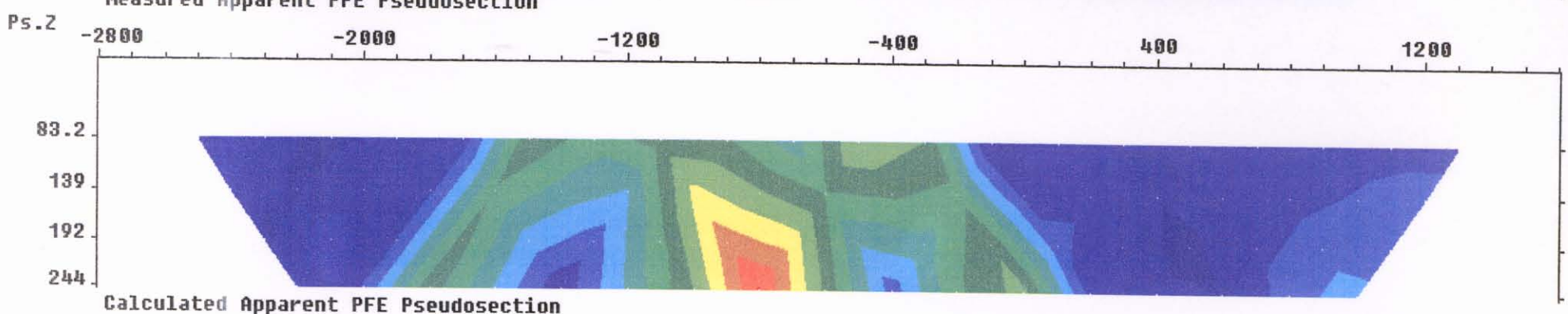
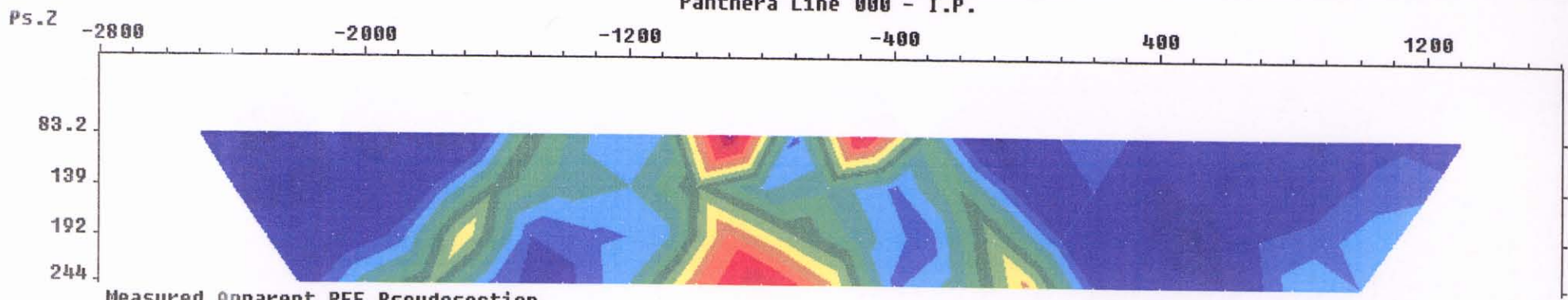
Iteration 3 Abs. error = 9.8



Unit electrode spacing is 100.0

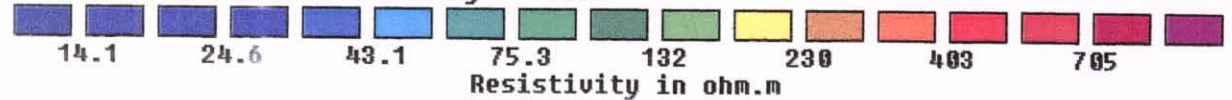
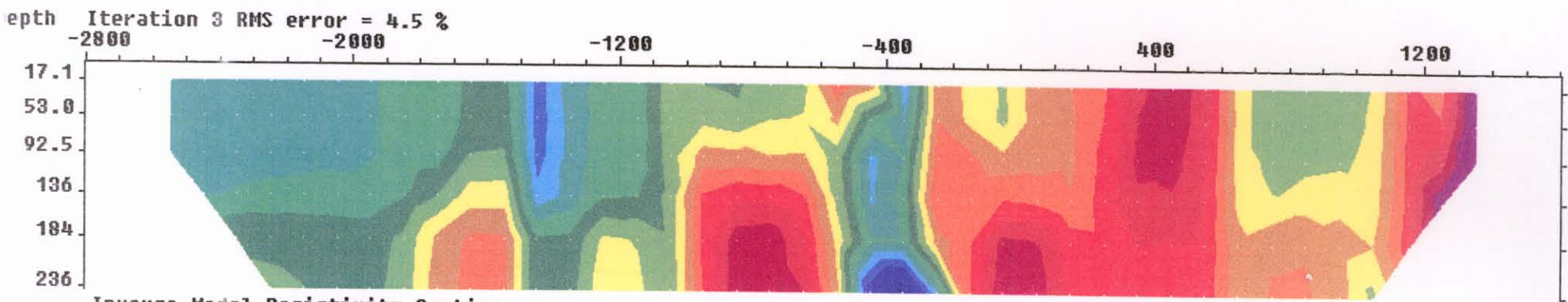
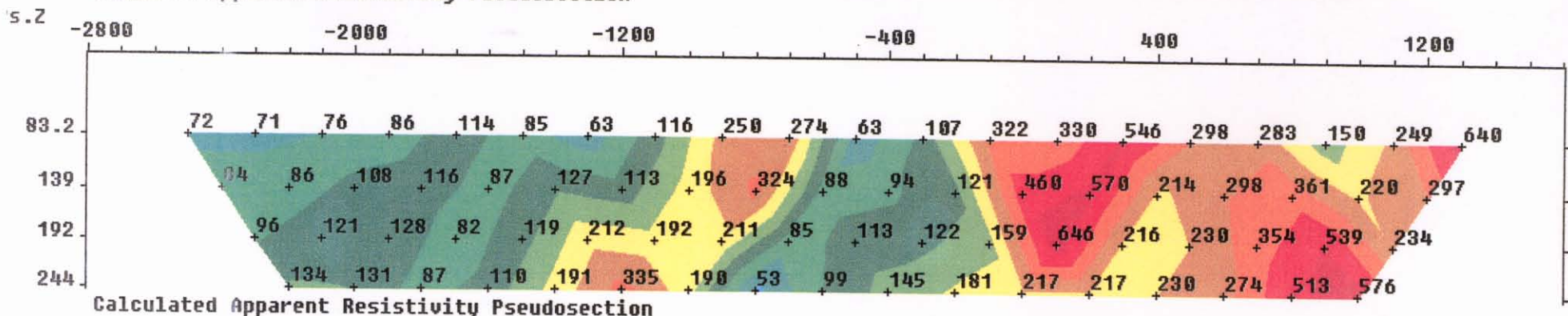
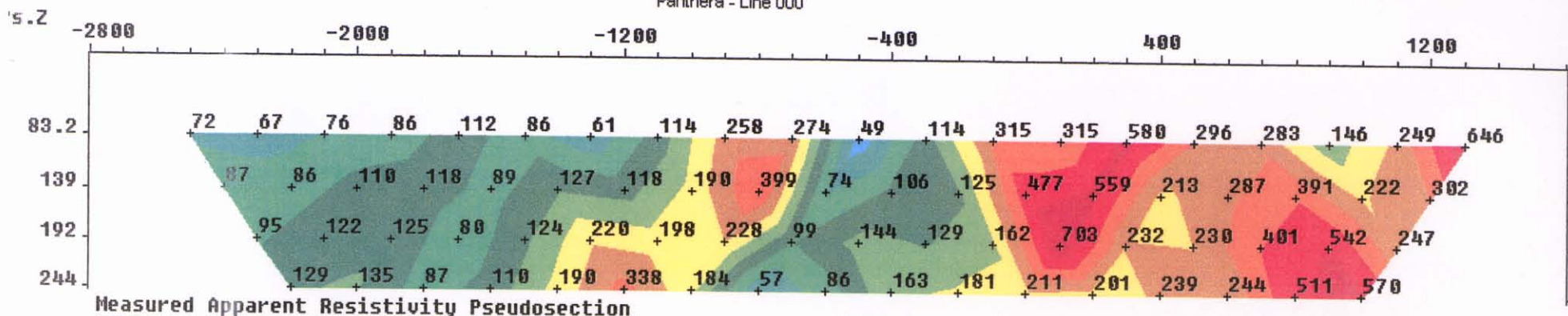


Panthera Line 000 - I.P.



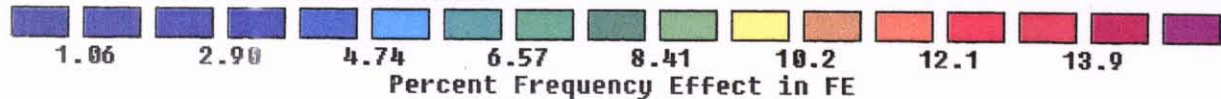
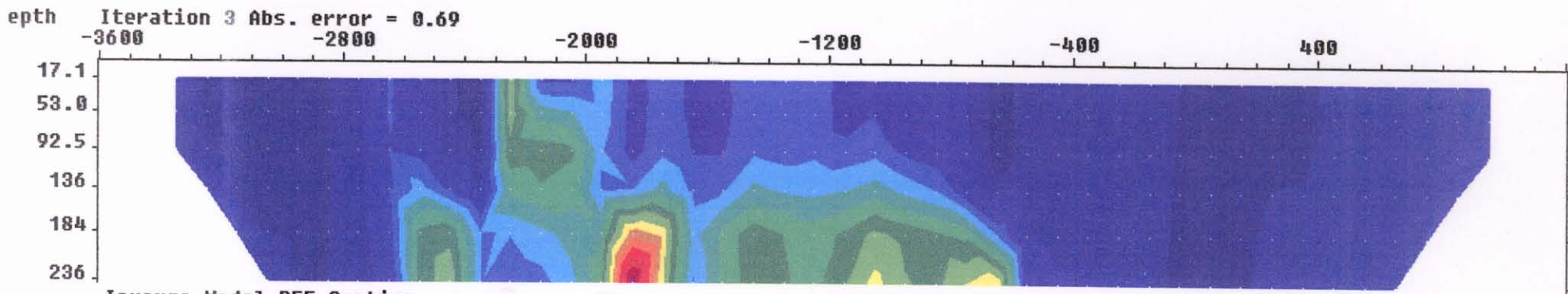
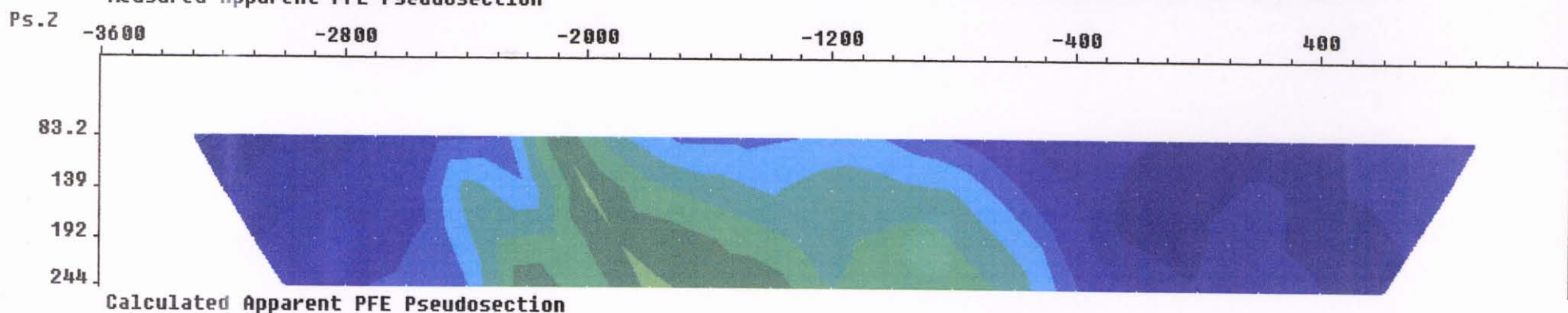
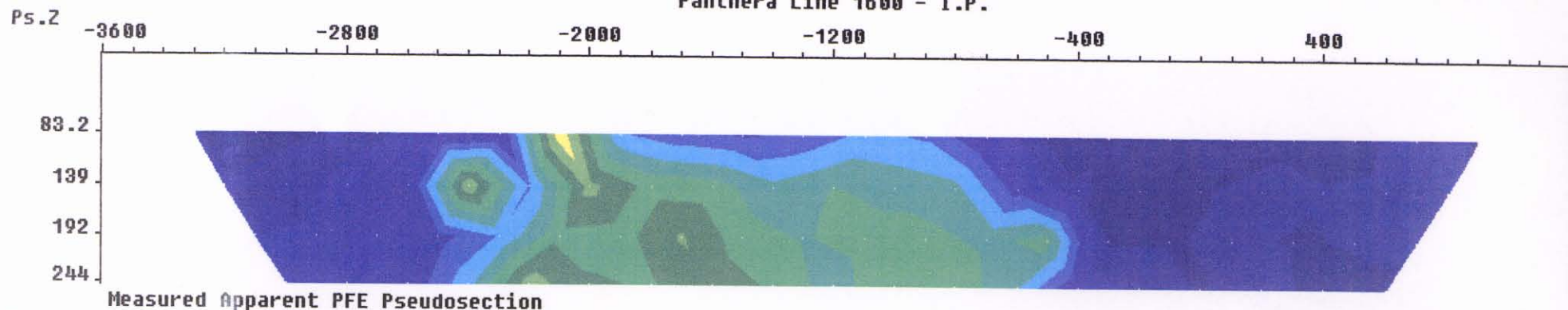
Unit electrode spacing is 100.0

Panthera - Line 000



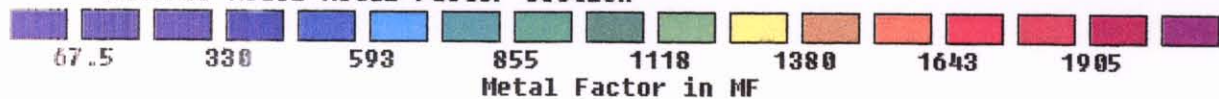
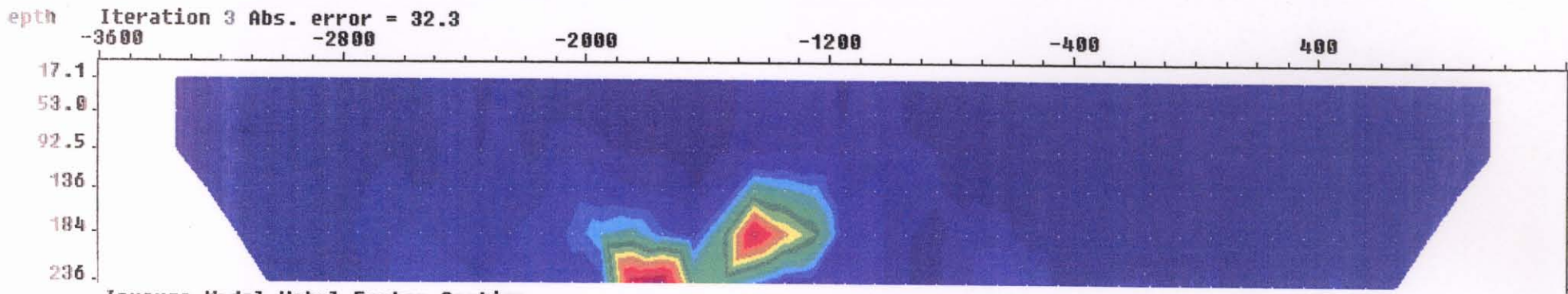
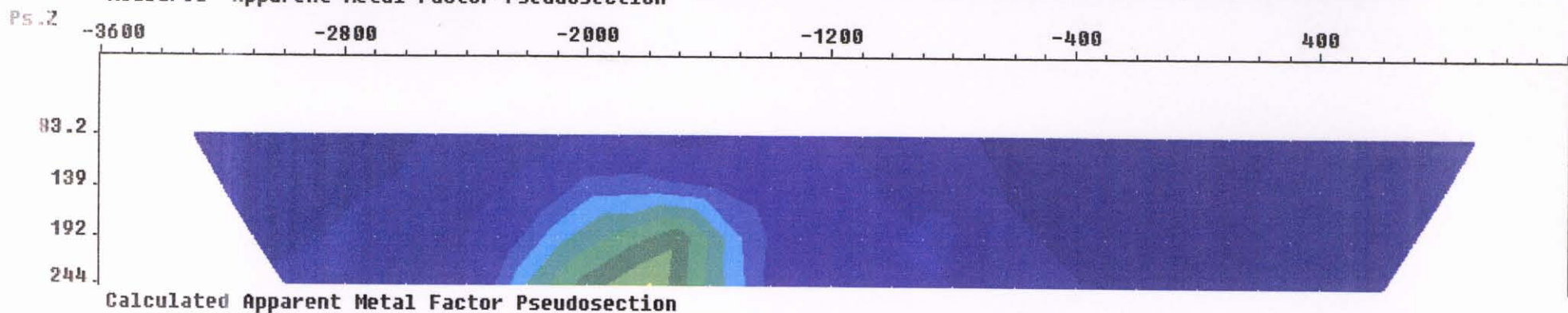
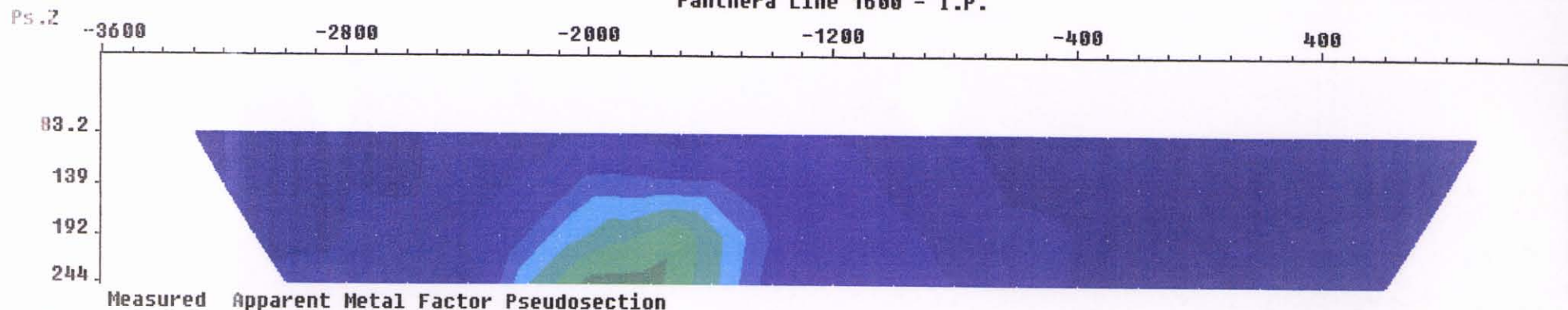
Unit electrode spacing is 100.0

Panthera Line 1600 - I.P.

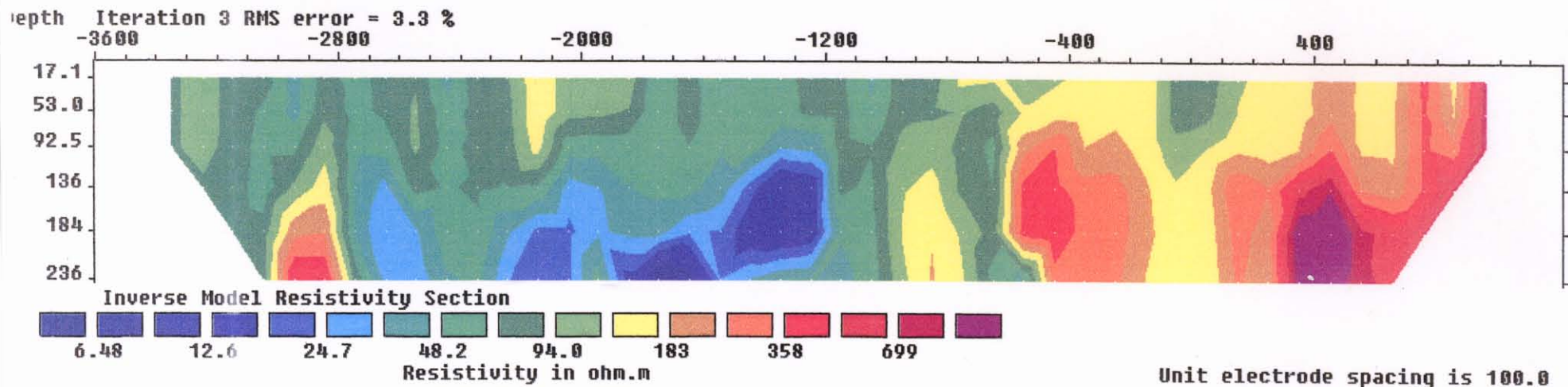
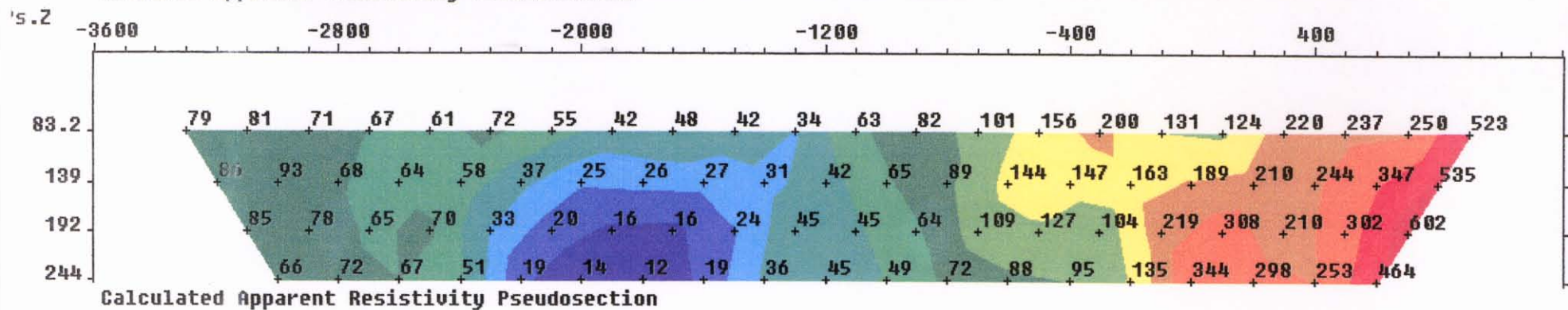
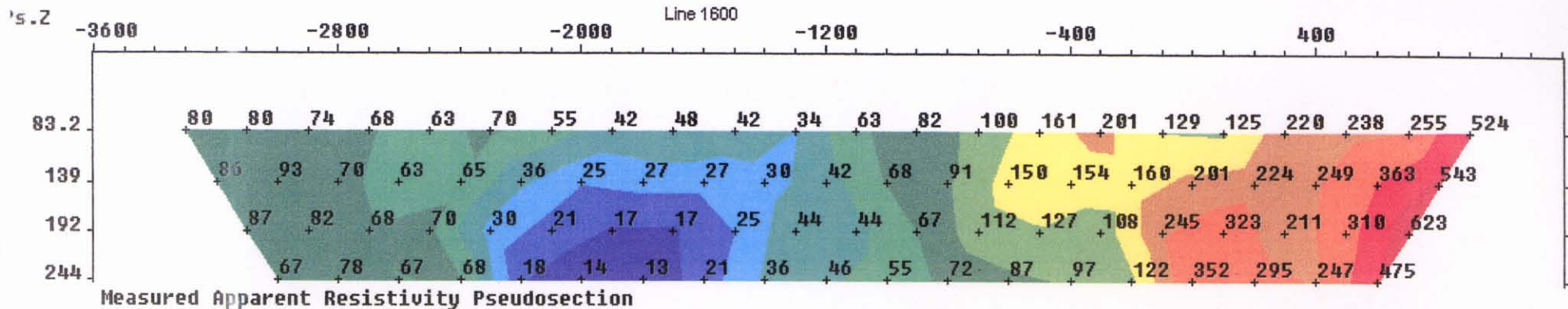


Unit electrode spacing is 100.0

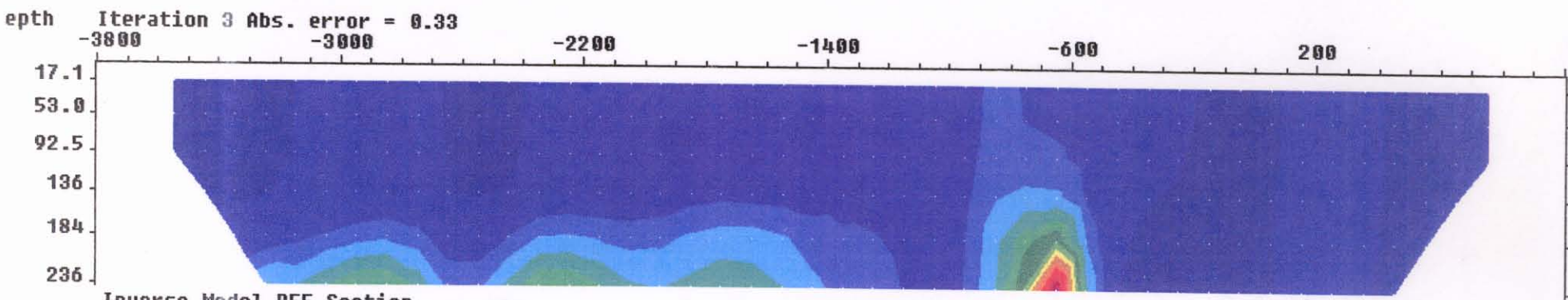
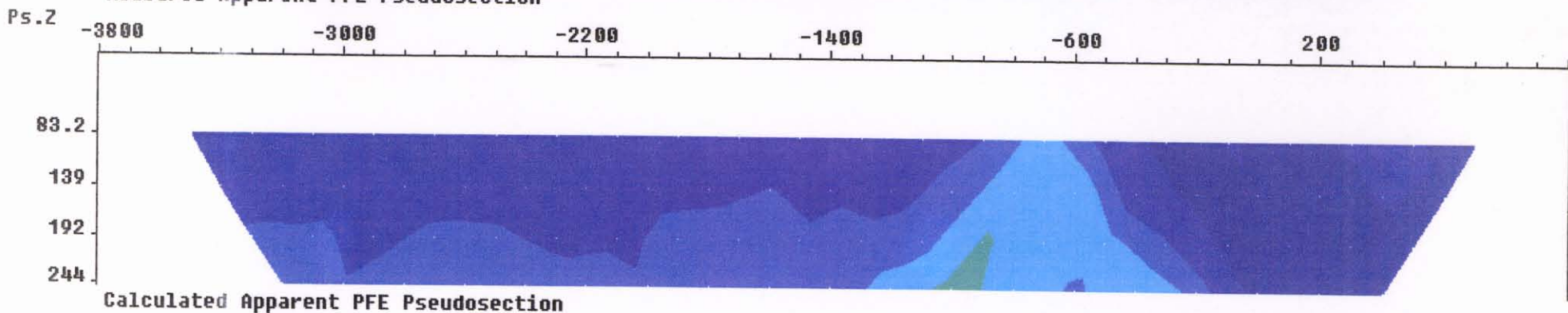
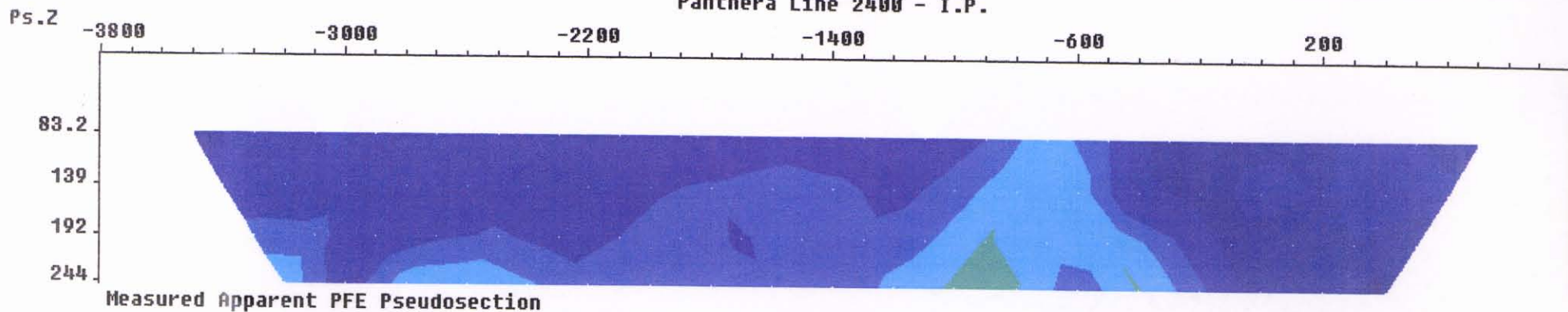
Panthera Line 1600 - I.P.



Unit electrode spacing is 100.0

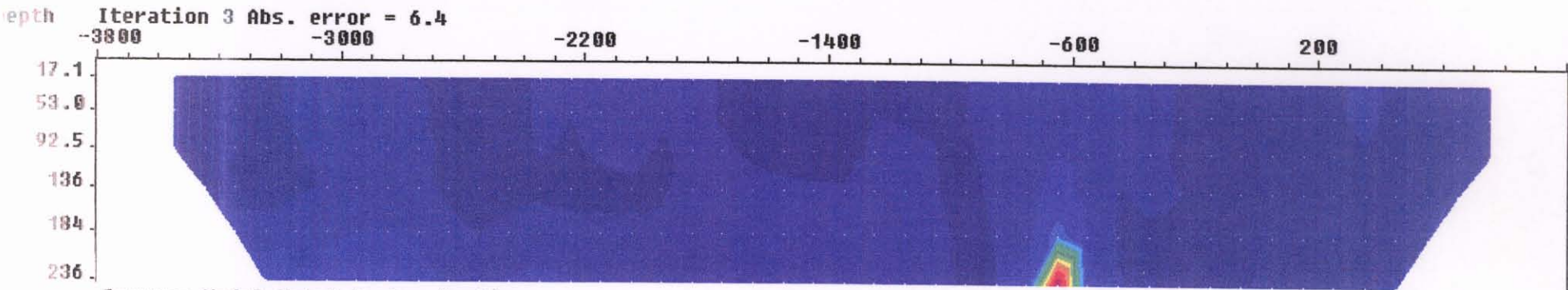
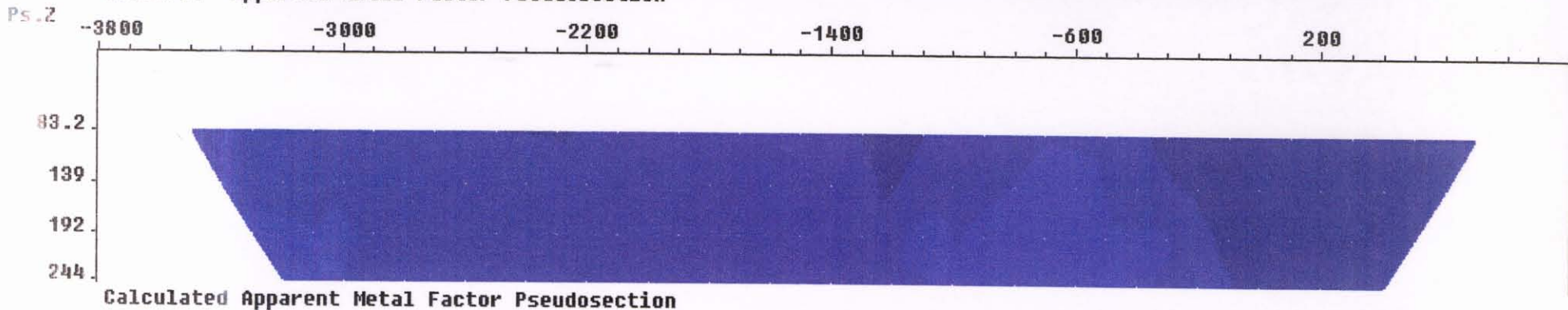
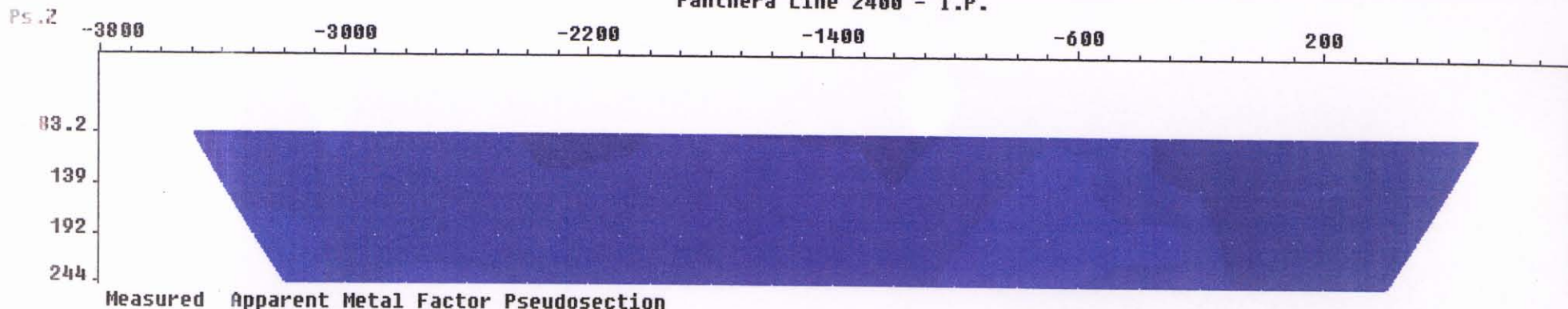


Panthera Line 2400 - I.P.

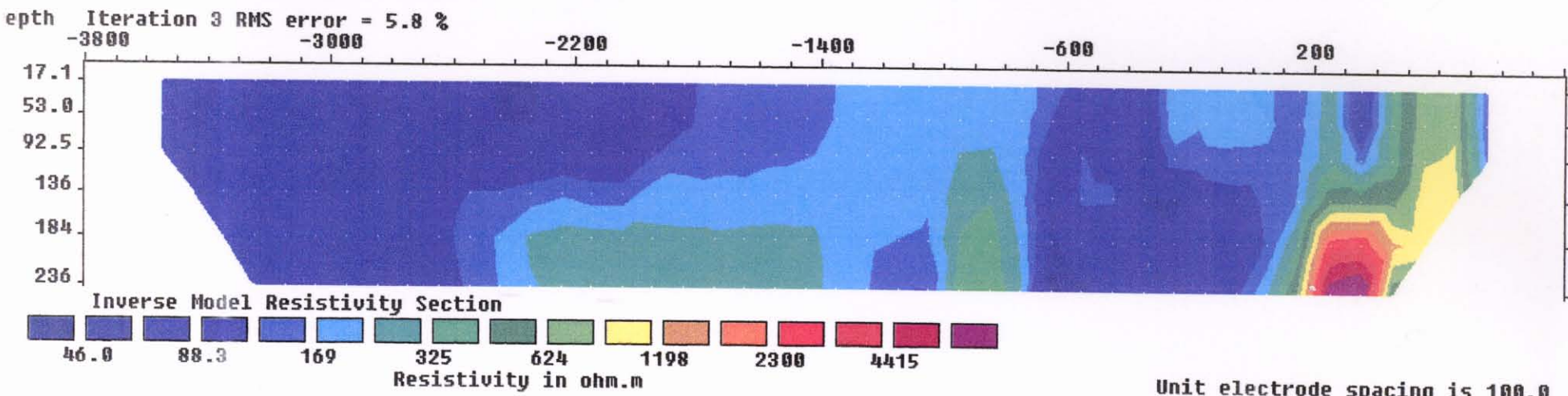
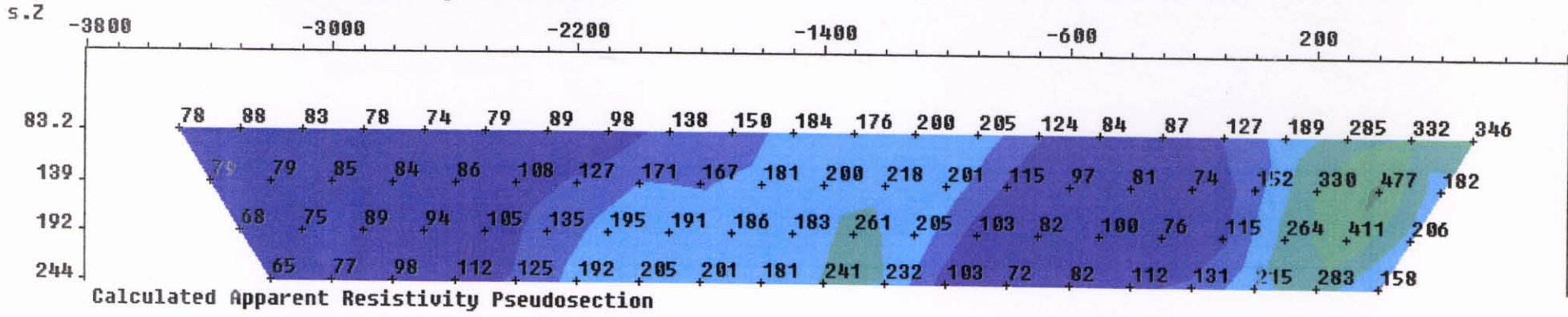
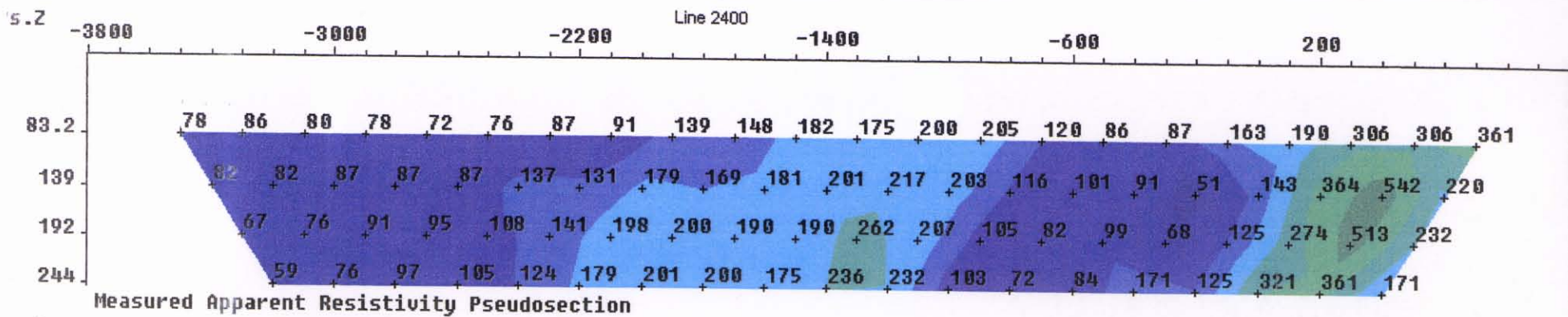


Unit electrode spacing is 100.0

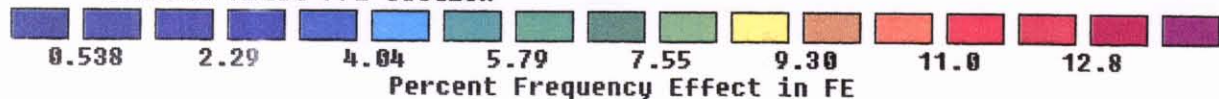
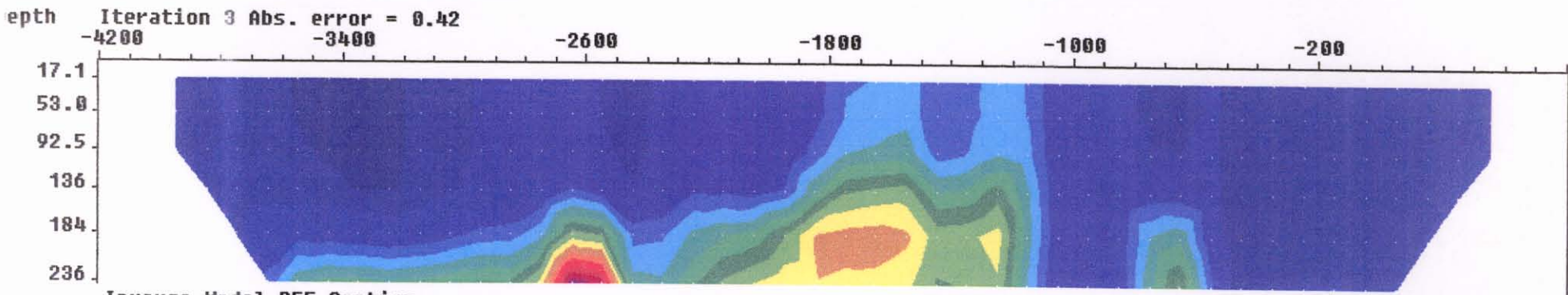
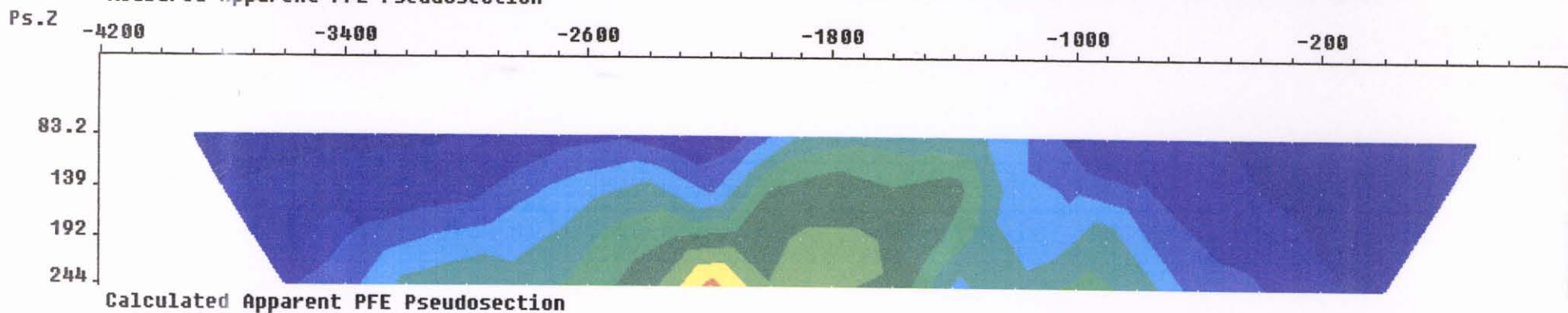
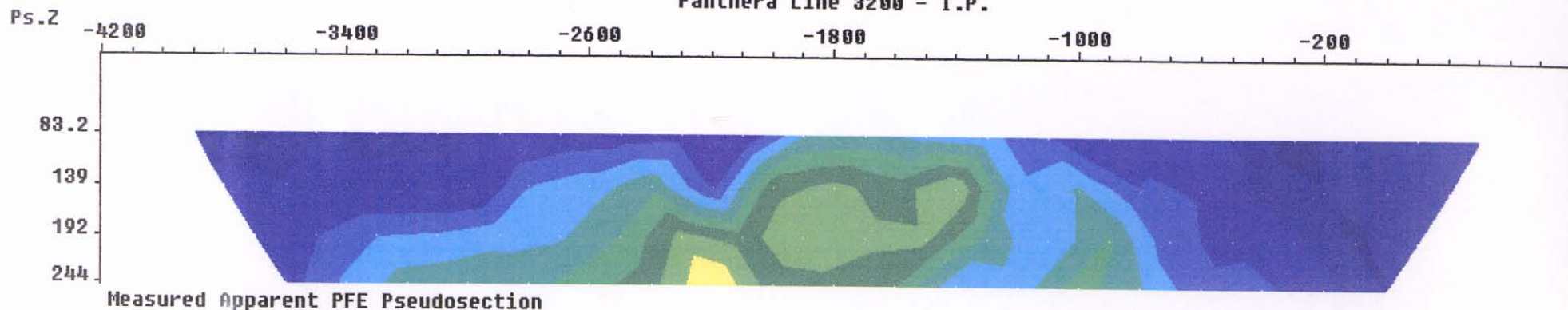
Panthera Line 2400 - I.P.



Unit electrode spacing is 100.0

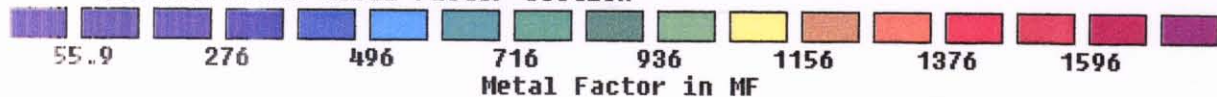
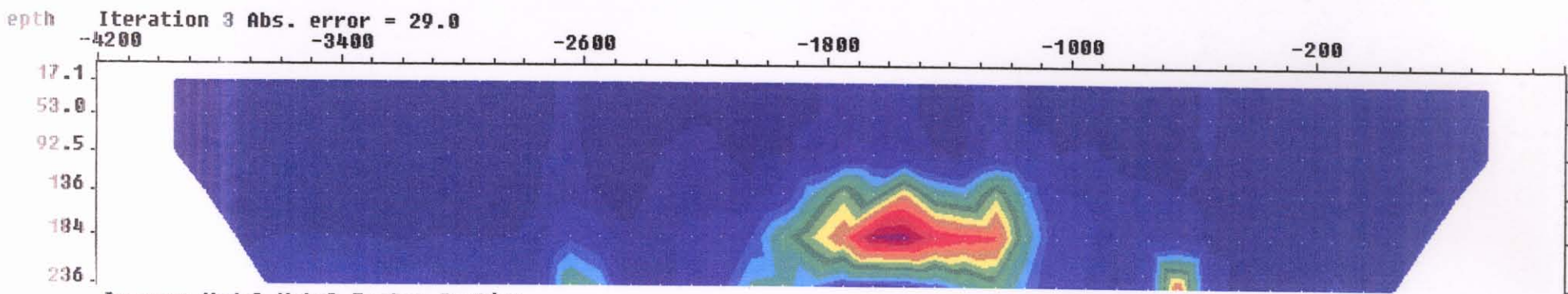
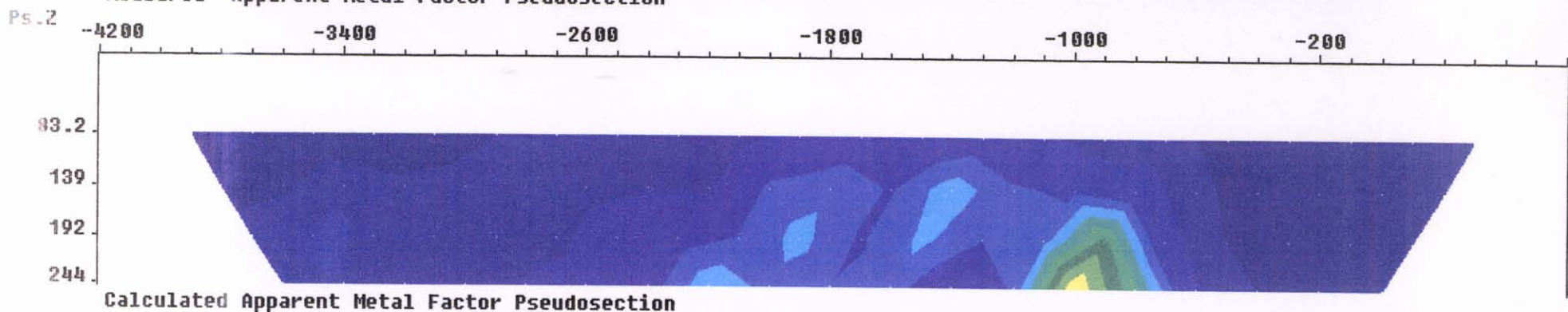
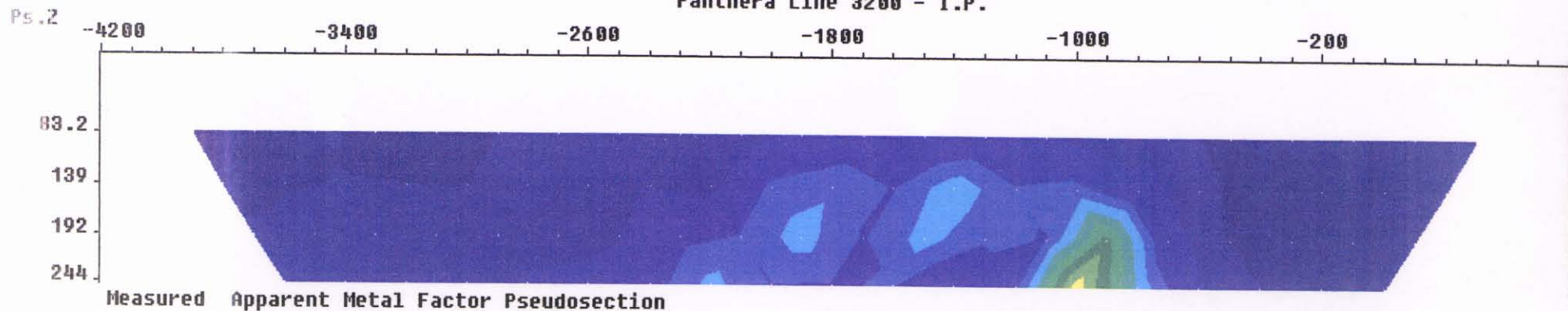


Panthera Line 3200 - I.P.

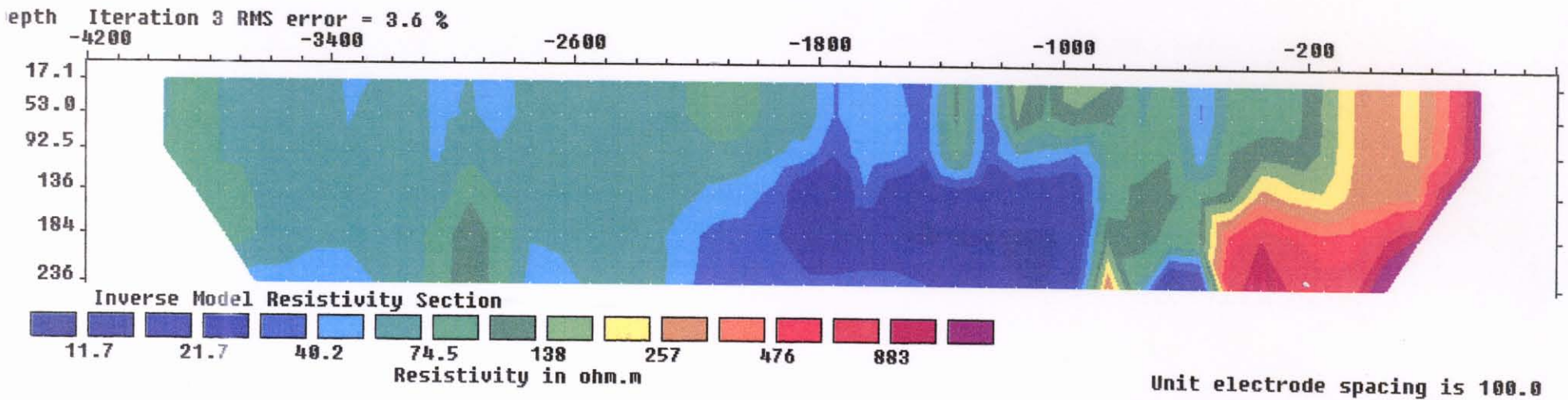
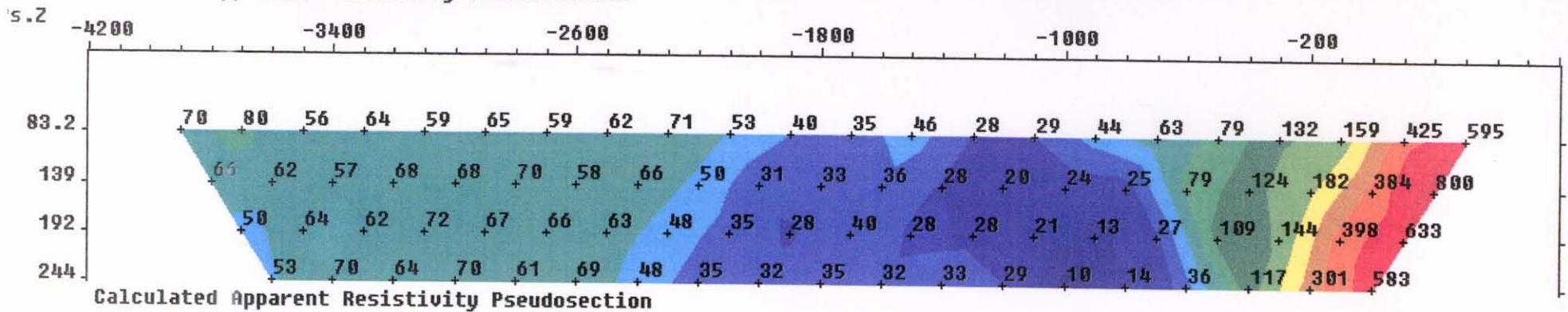
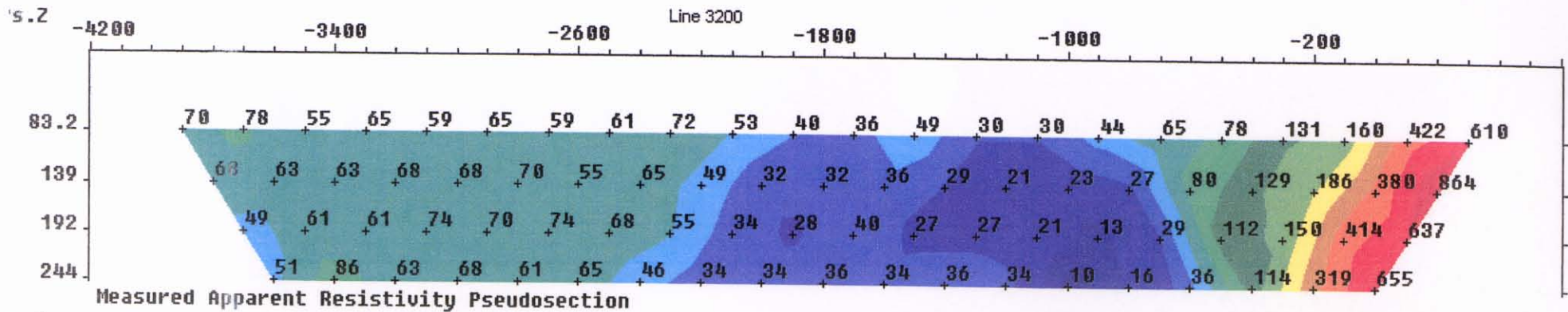


Unit electrode spacing is 100.0

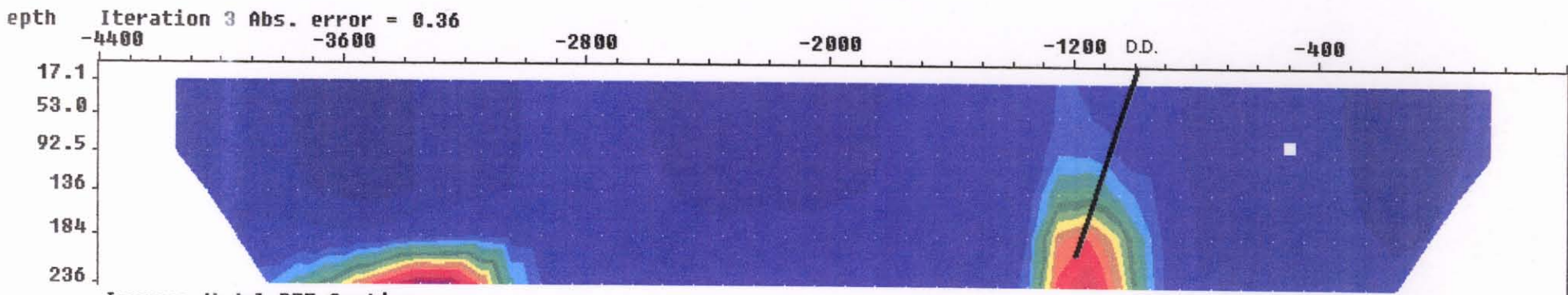
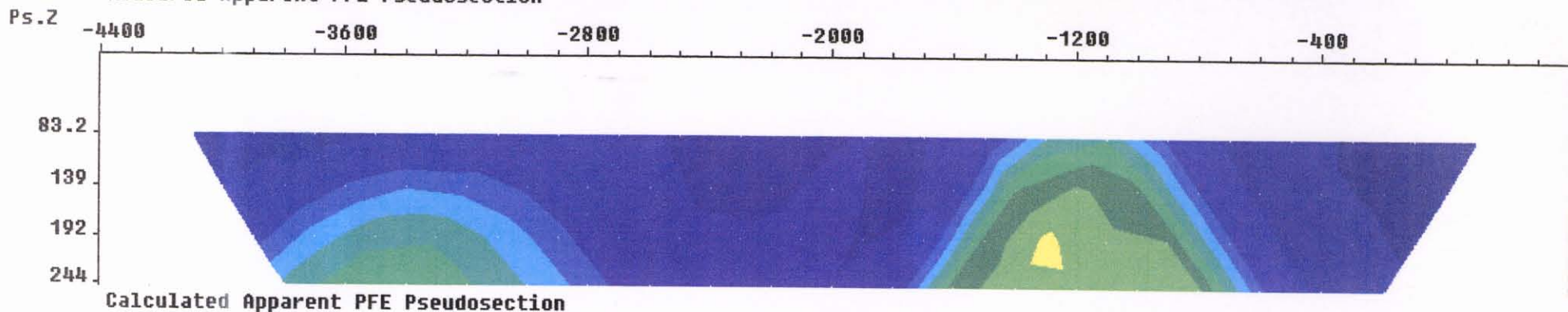
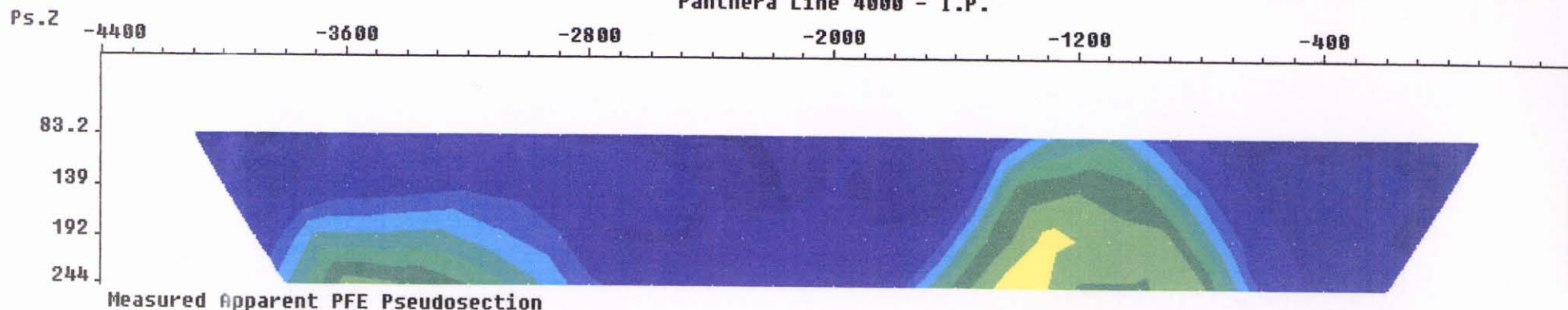
Panthera Line 3200 - I.P.



Unit electrode spacing is 100.0

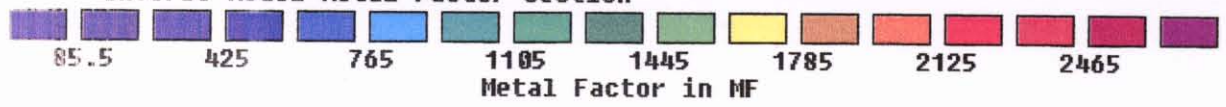
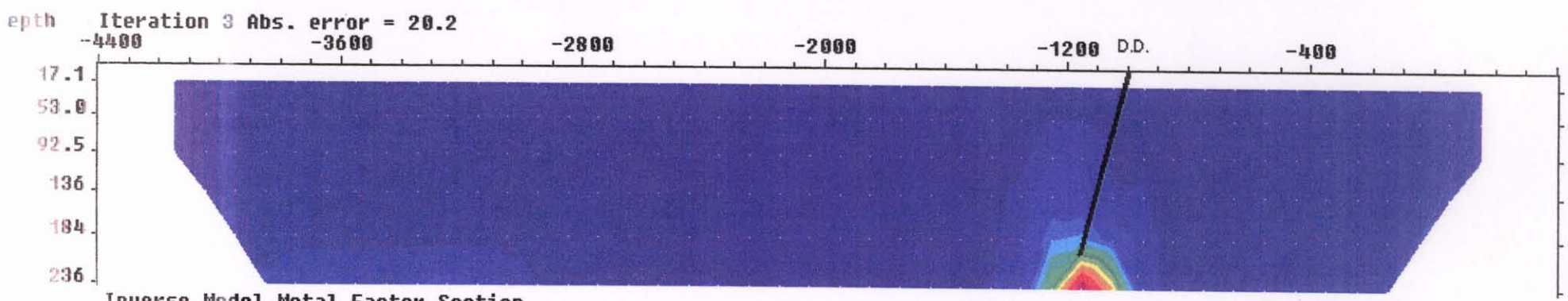
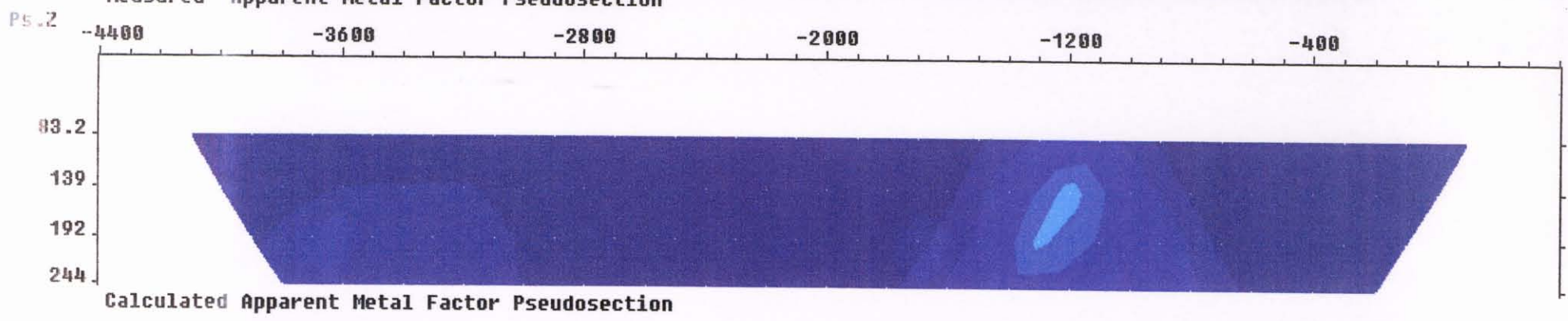
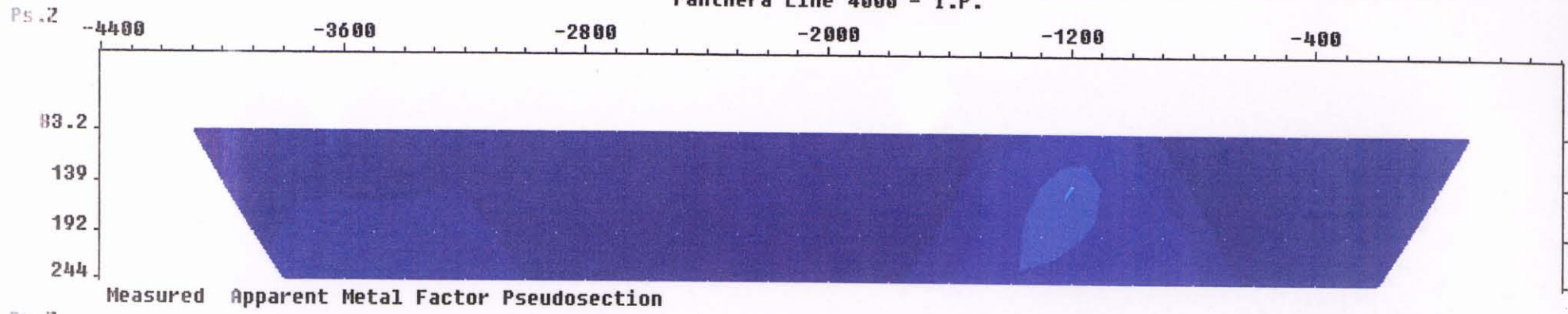


Panthera Line 4000 - I.P.



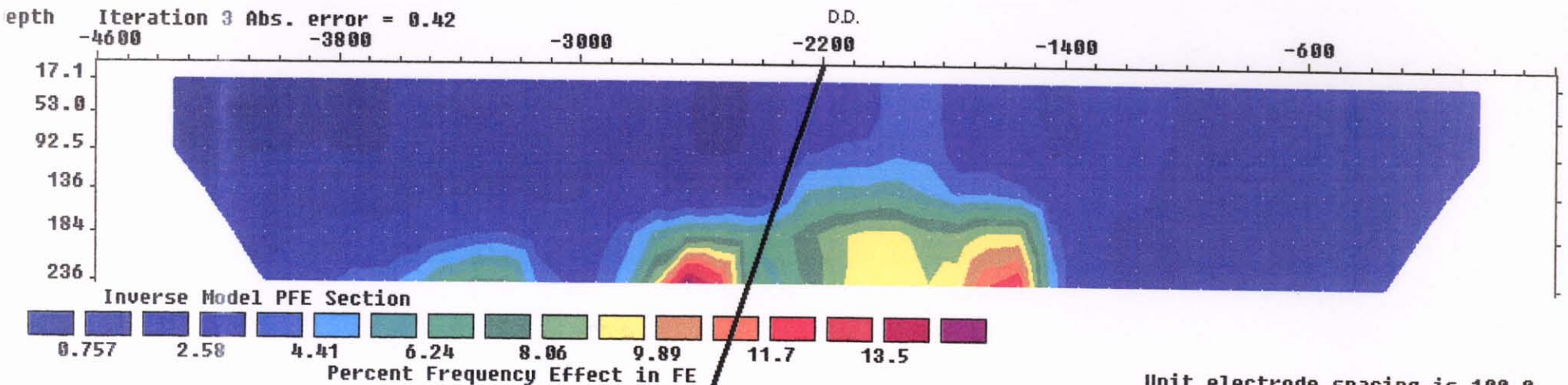
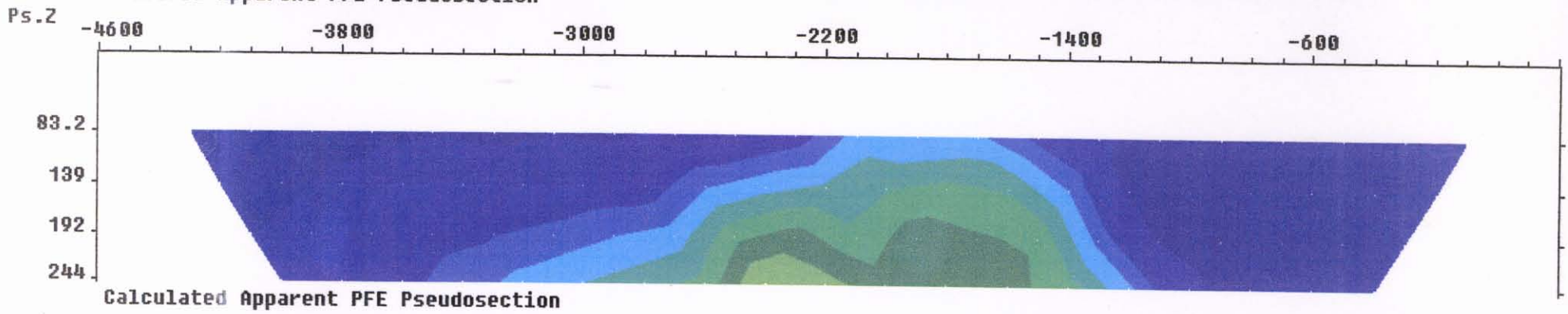
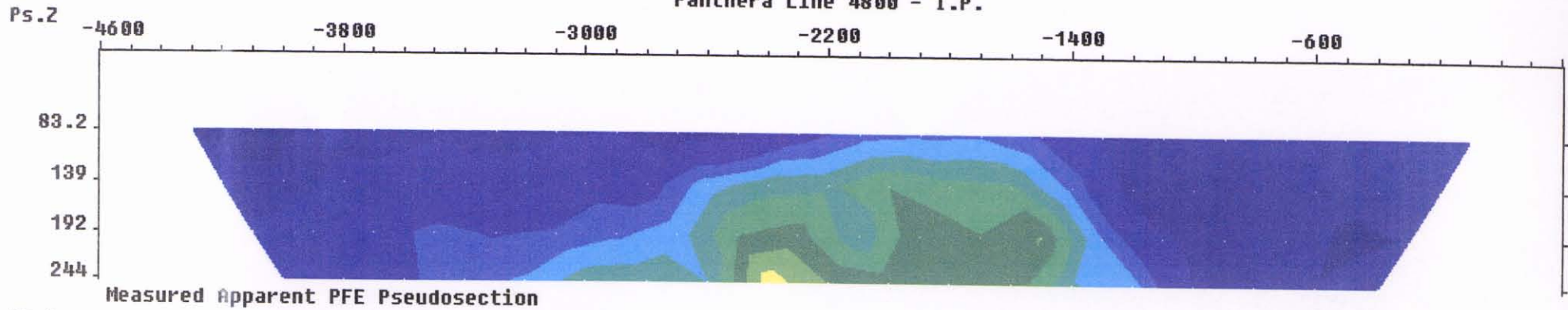
Unit electrode spacing is 100.0

Panthera Line 4000 - I.P.

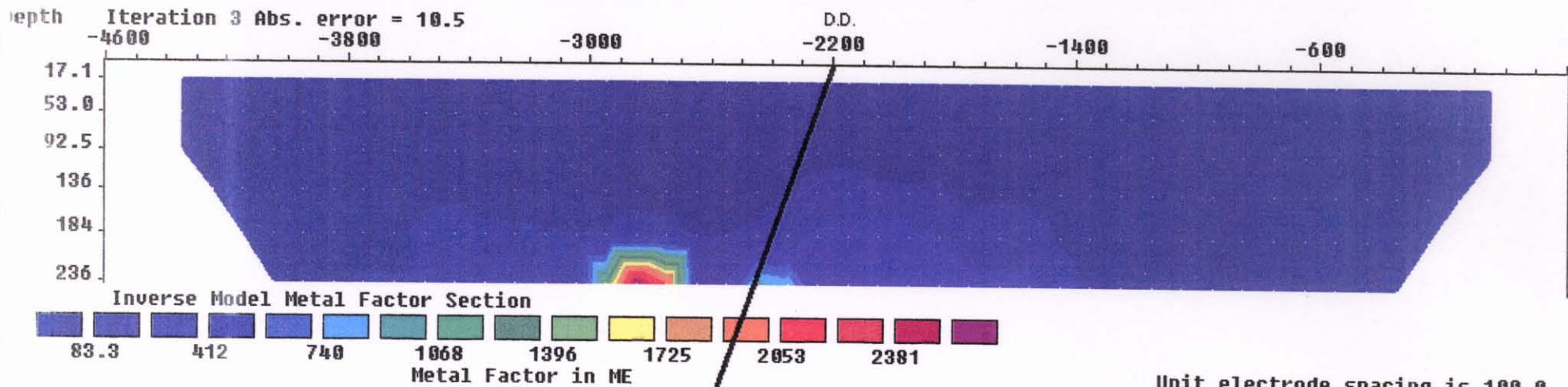
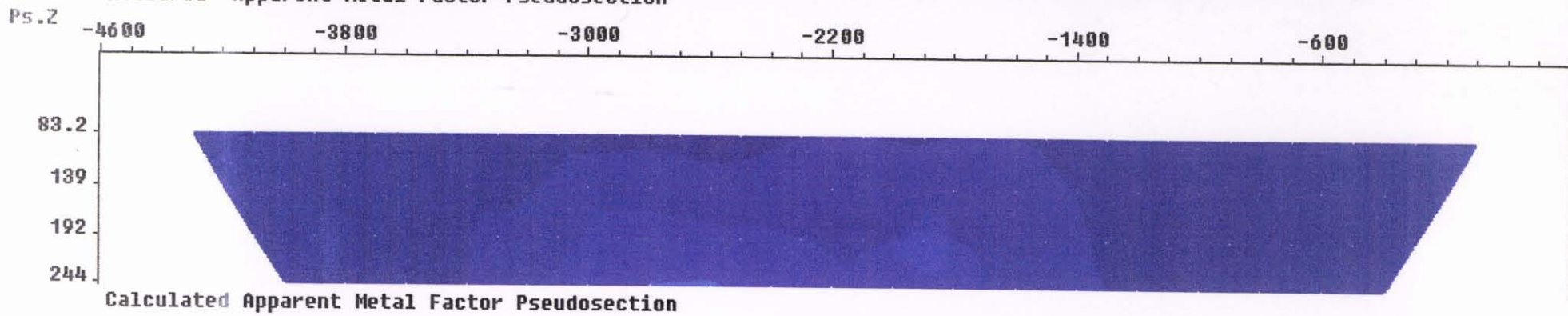
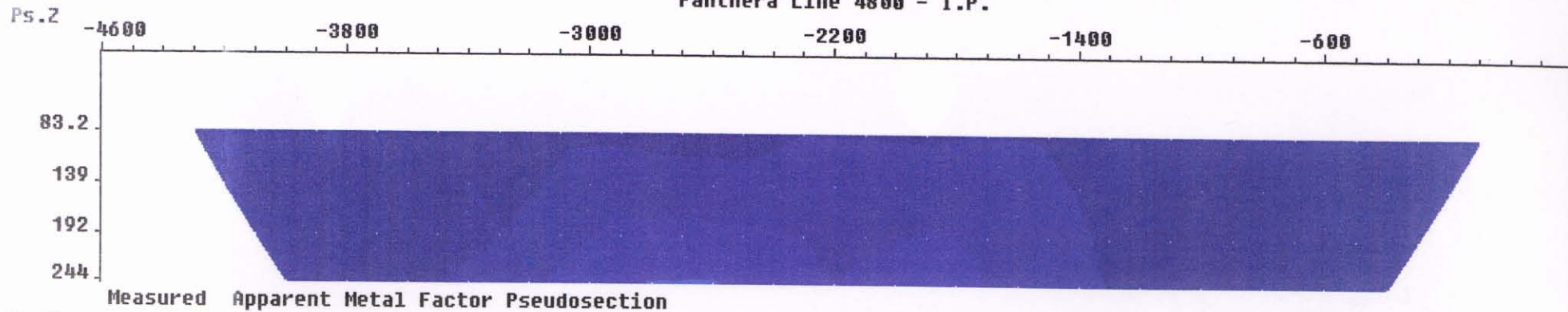


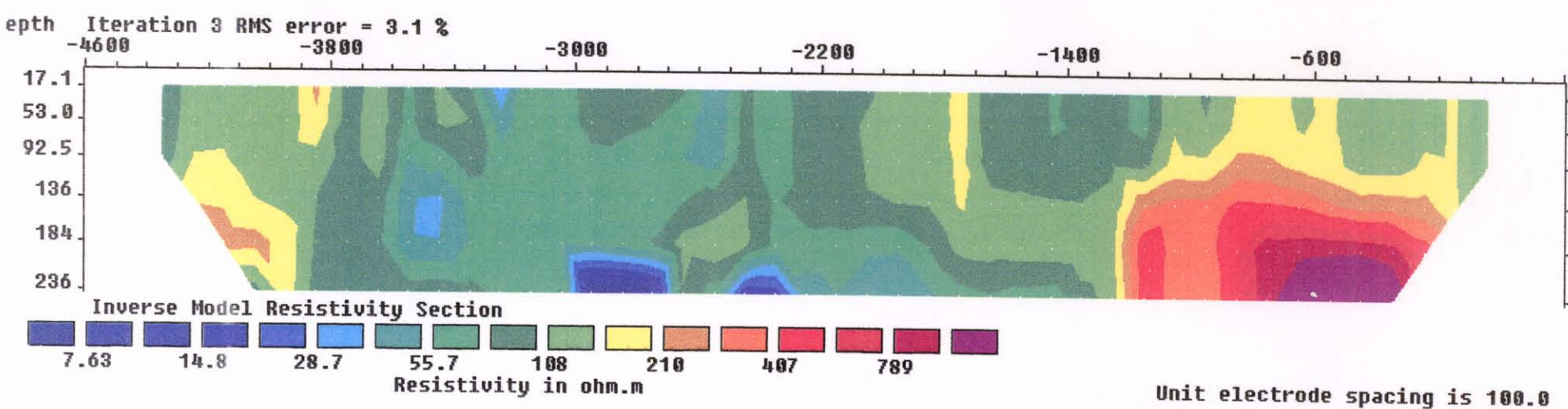
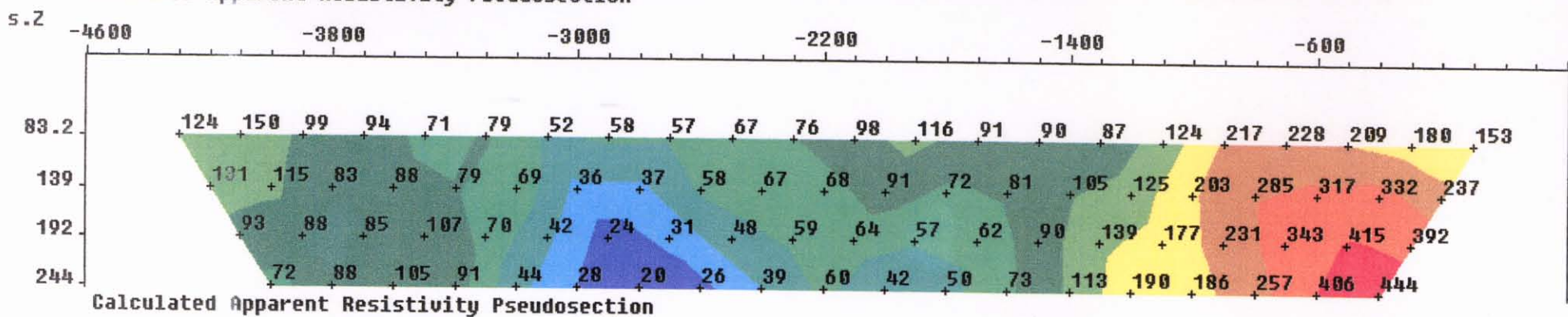
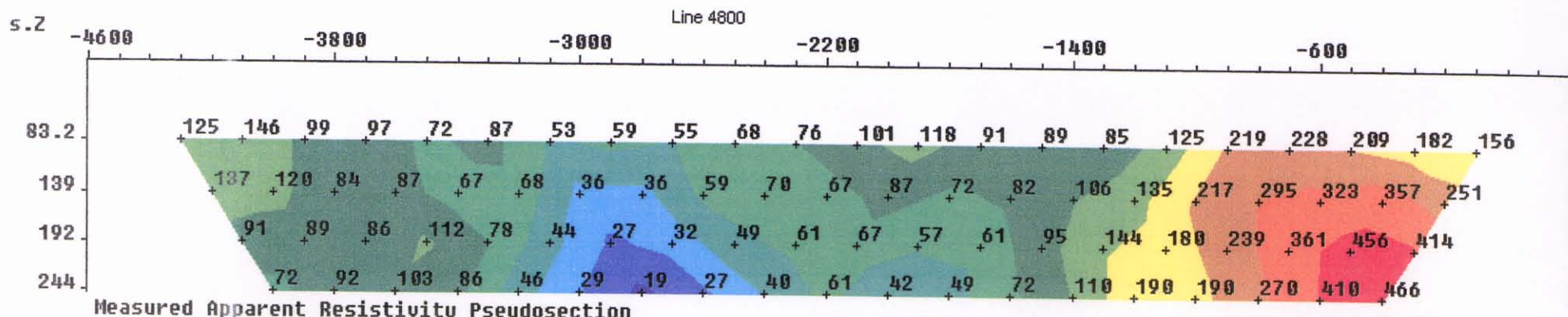
Unit electrode spacing is 100.0

Panthera Line 4800 - I.P.

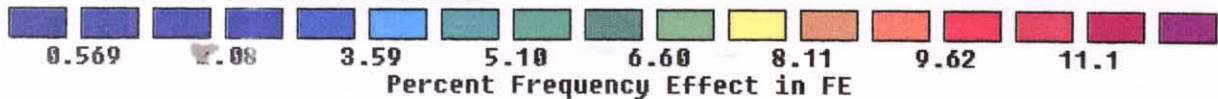
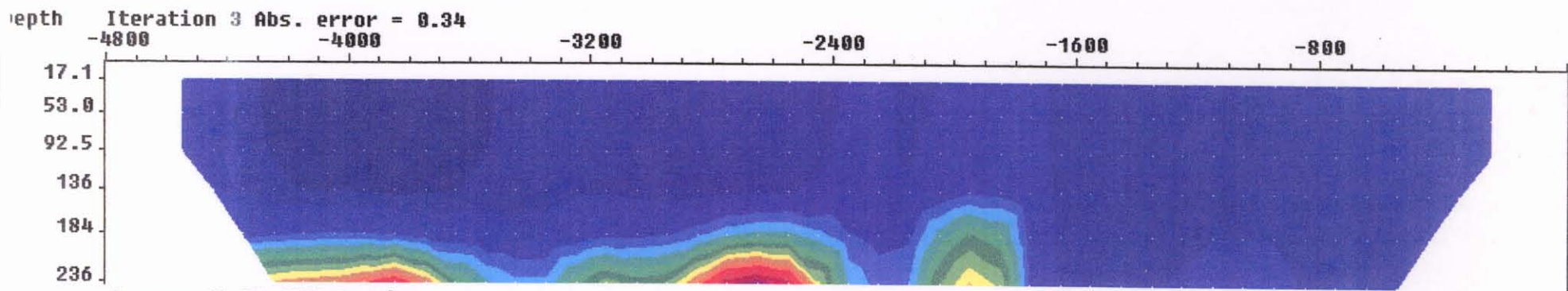
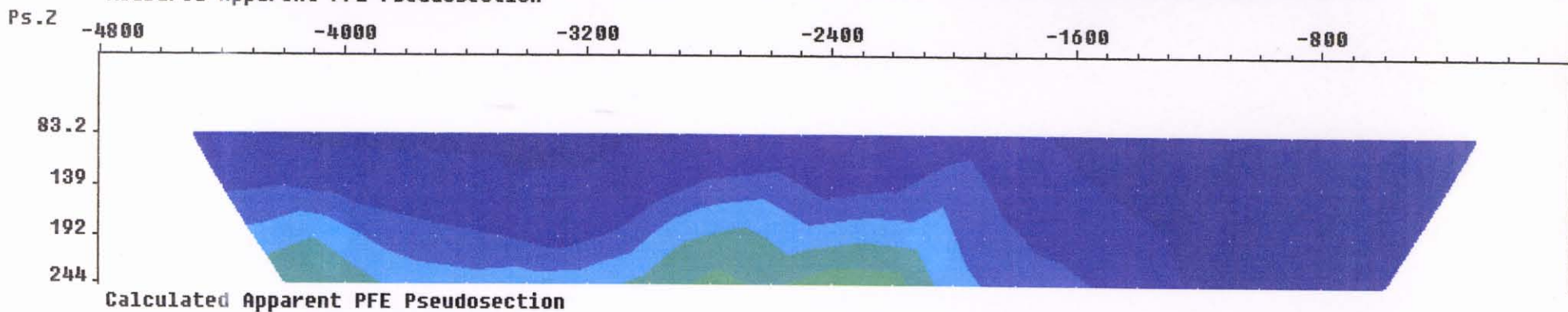
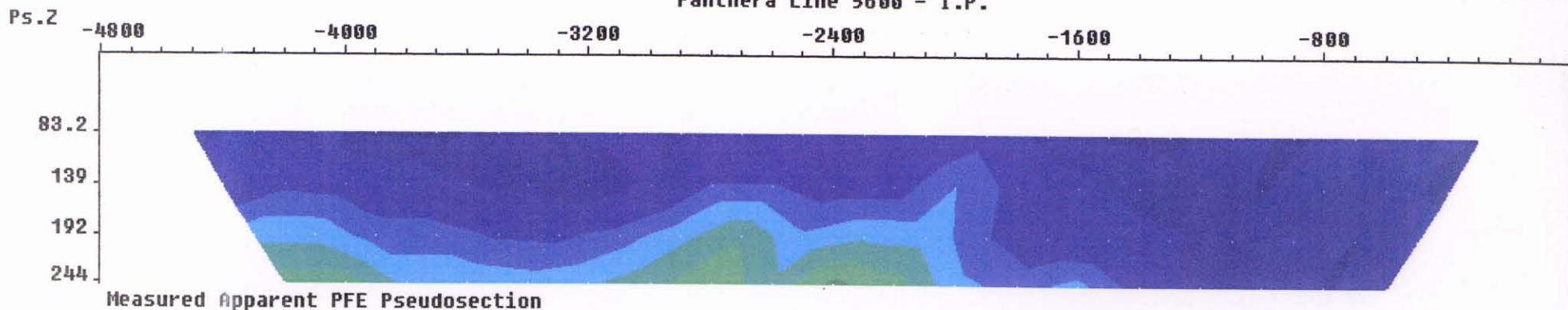


Panthera Line 4800 - I.P.



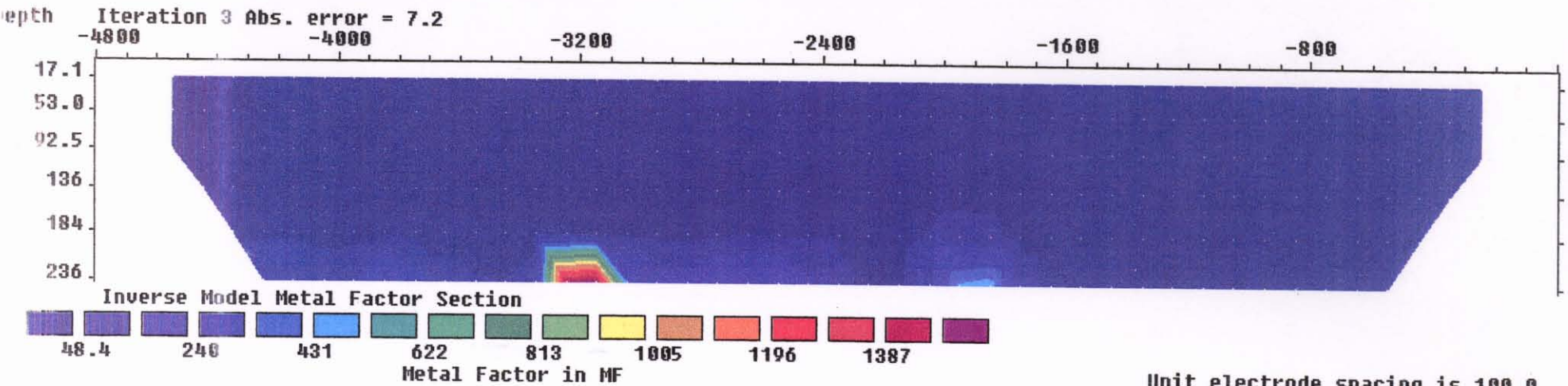
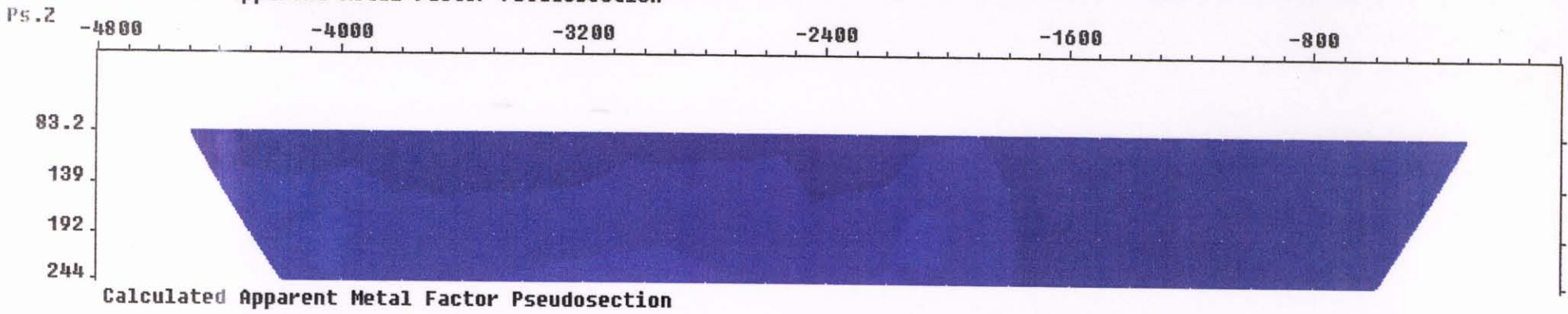
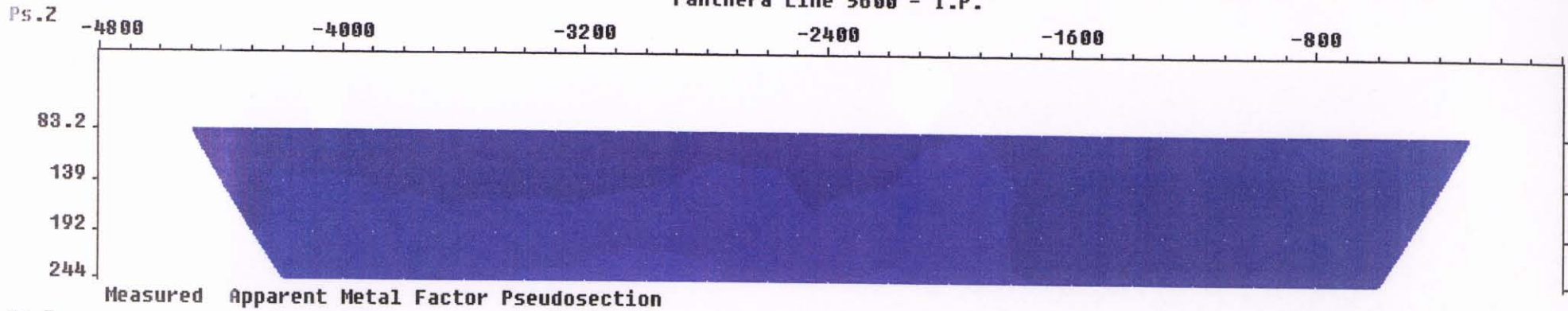


Panthera Line 5600 - I.P.



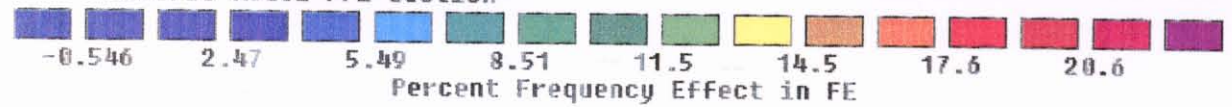
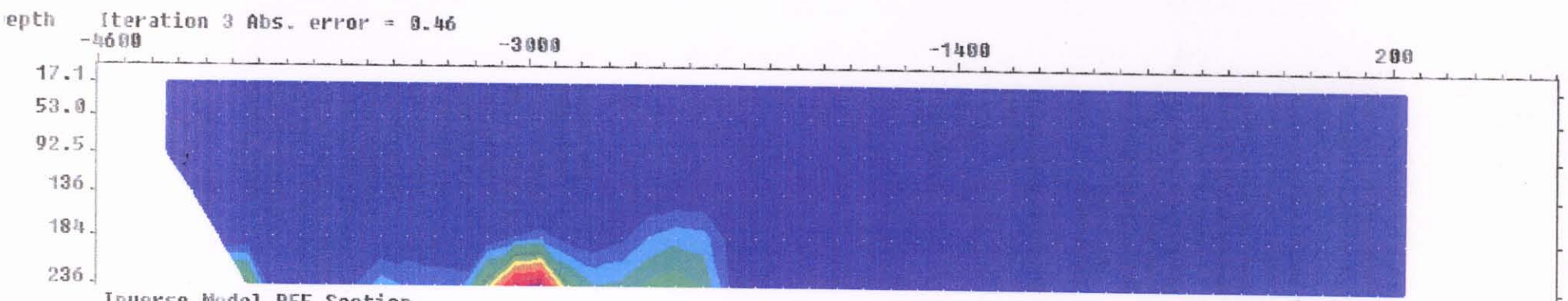
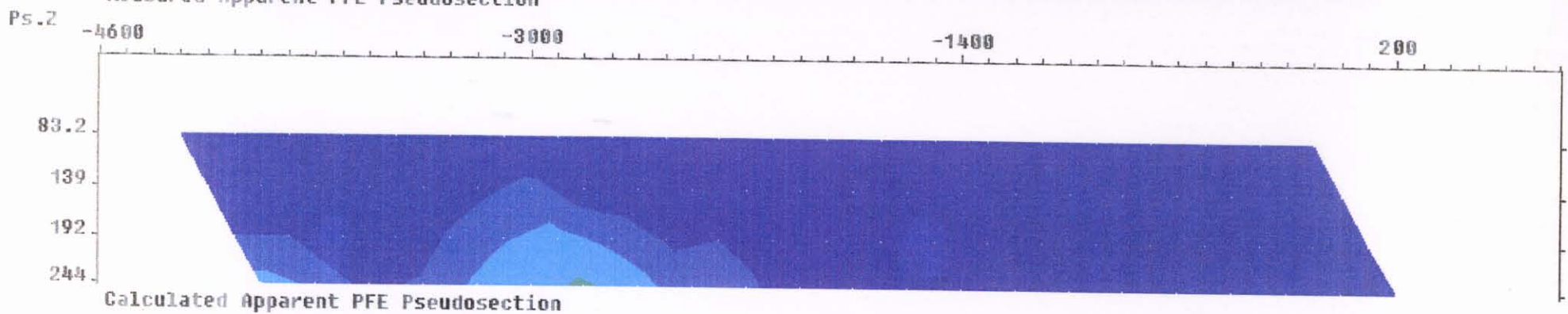
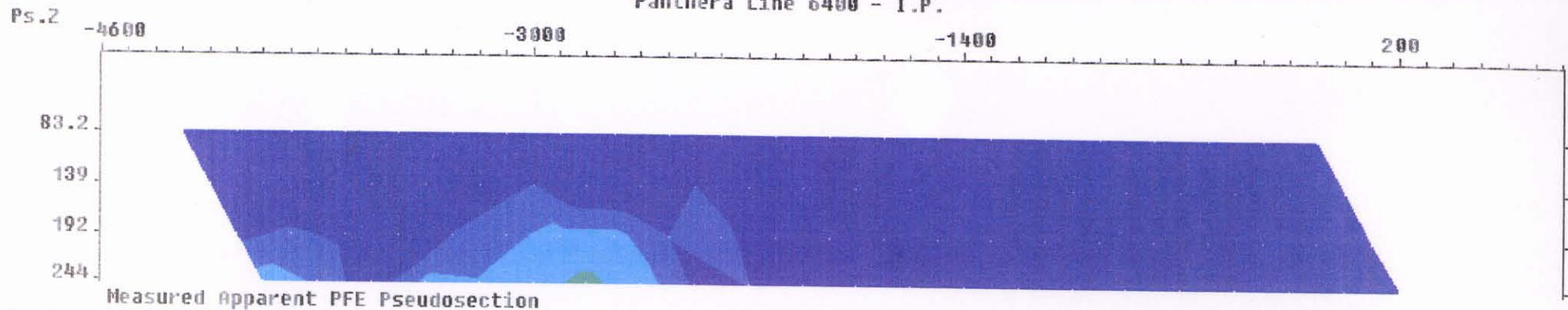
Unit electrode spacing is 100.0

Panthera Line 5600 - I.P.



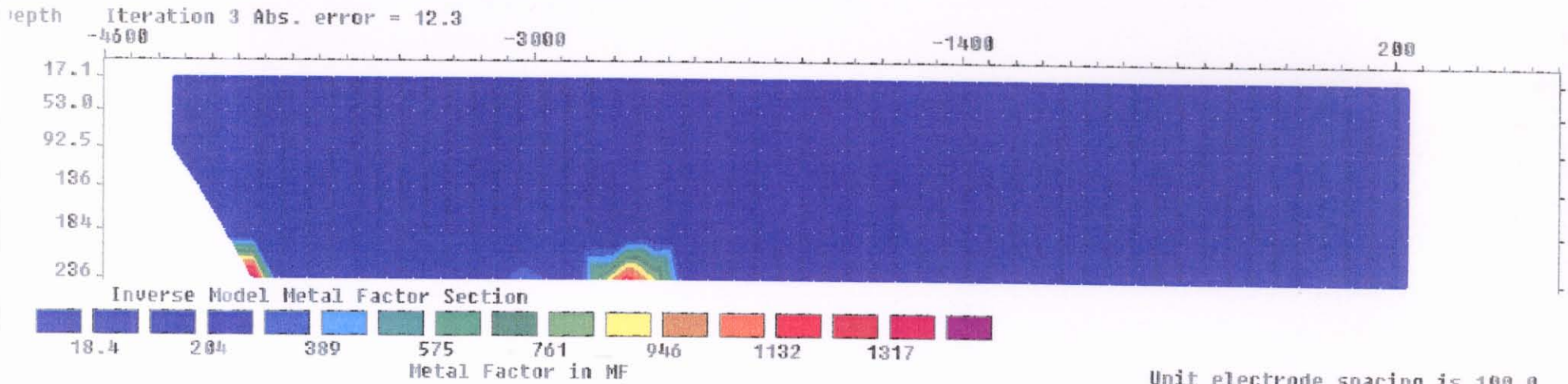
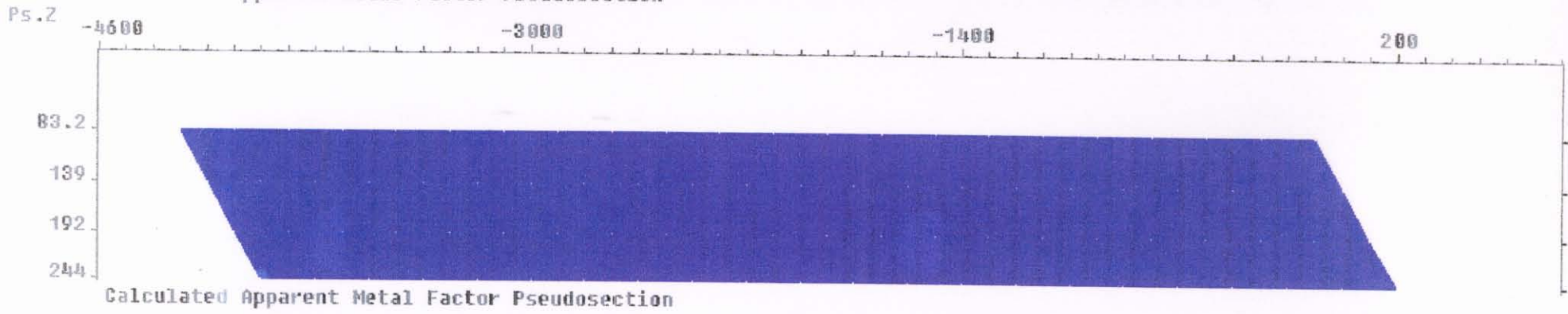
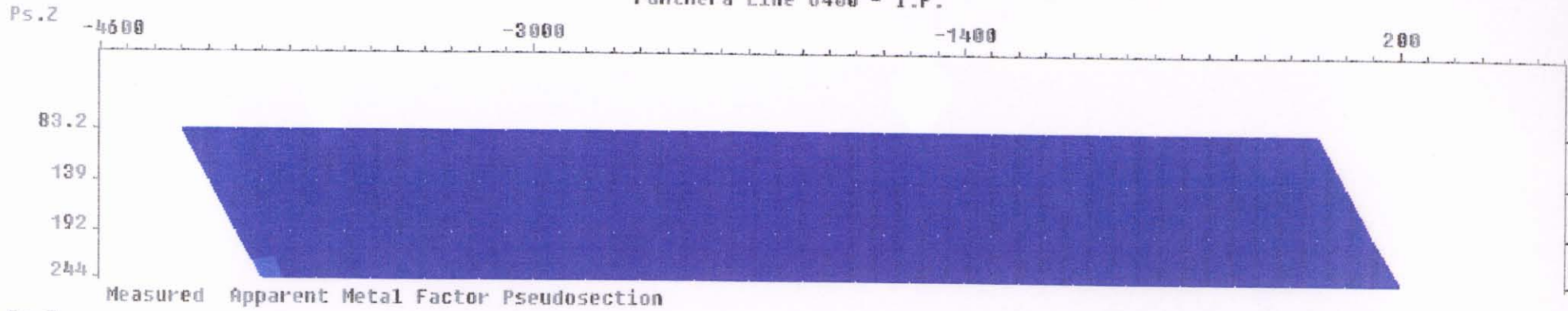
Unit electrode spacing is 100.0

Panthera Line 6400 - I.P.

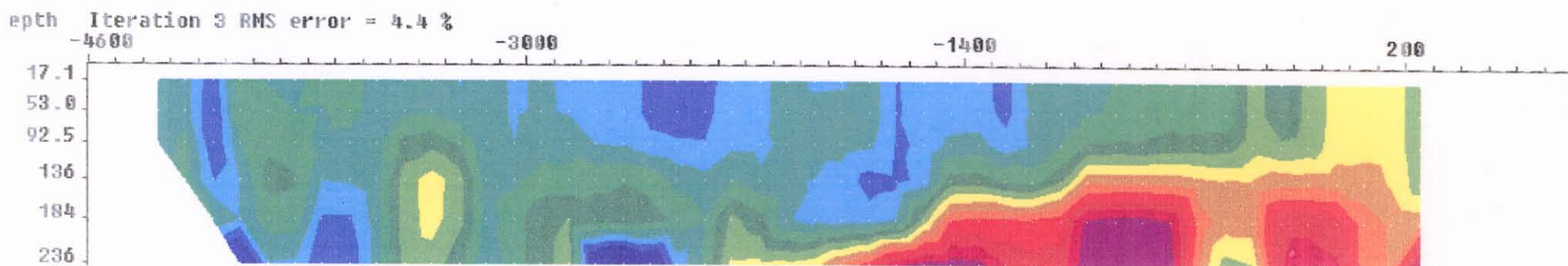
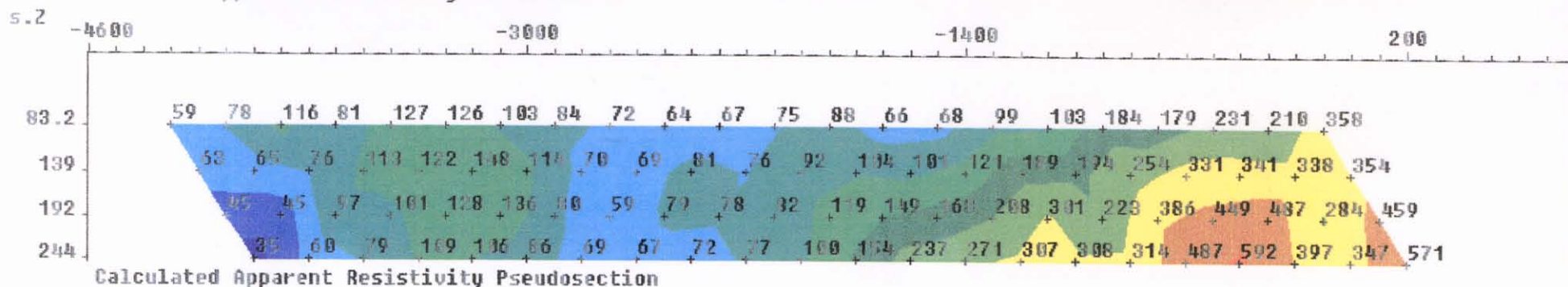
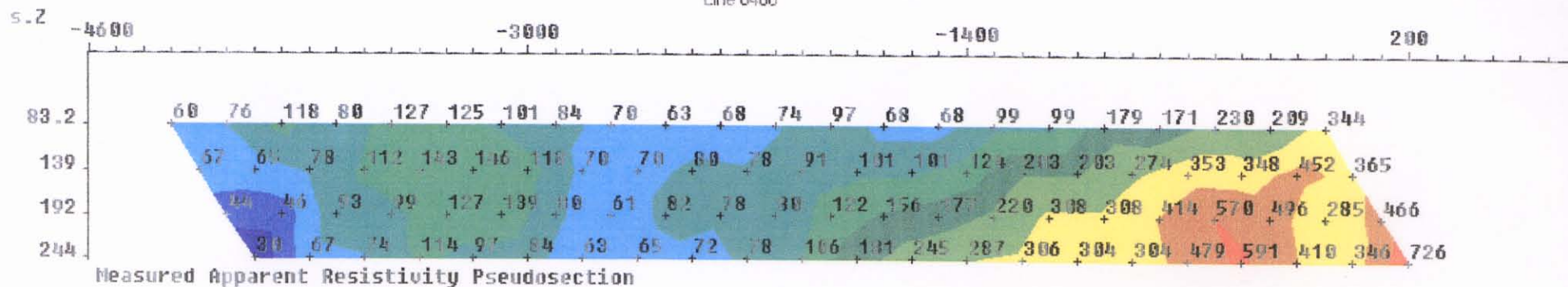


Unit electrode spacing is 100.0

Panthera Line 6400 - I.P.



Line 6400



Inverse Model Resistivity Section



Resistivity in ohm.m

Unit electrode spacing is 100.0

EAST

6075500

76000

76500

77000

77500

78000

78500

66000

65500

65000

64500

64000

63500

63000

62500

62000 NORTH

LM
LIMESTONE

5400 GALL.
DIAG. HIGH

ANDESITE
FLOAT

PY
CPY

VOL.

2 4 4 9 5 9 7 12 17 13 6 83

6 20 11 10 10 7 15 10 72 27 8 11 14 14 7 9 10 13 12

8 5 6 9 9 5 5 6 6 4 7 8 8 6 19

554460

554461

554462

554463

6400 North

5500

4300

4000

3200

2400

MINFILE 93L 193 COUGAR, CU

1600

800

00

Panthera Claim Group Geochemistry

November 2007

PPM Copper + 7

Pyrite PY

Chalcopyrite CPY

Volcanics VOL.

Decommissioned Road - - - - -

All Weather Road - - - - -

Power line - | - | -

Historical Induced Polarization Survey

July 1971

Surface Projection Anomalous Zones

Definite —————

Probable - - - - -

Possible

0 200 400
SCALE METER

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

29,388

Map 4