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NUMBER 8962

EL 1974 CHARLOTTE WELL

ANNUAL AND FINAL REPORTS FOR THE PERIOD
1/8/94 TO 3/6/96

Submitted by

CRA Exploration Pty Ltd
1996

MINES and ENERGY RESOURCES SOUTH AUSTRALIA

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ENVELOPE 8962

TENEMENT: EL 1974, Charlotte Well

TENEMENT HOLDER: CRA Exploration Pty Ltd

CONTENTS

[Note: Colour microfilm images of 8962-4, 8962-5, 8962-6, 8962-7 follow the plans on the microfiche].

END OF CONTENTS

SEPARATELY HELD DATA

DRILLHOLE SAMPLES (held by MESA Core Library)

For up to date information on available drillhole samples, contact the Supervisor, MESA Core Library and quote the Exploration Licence and drillhole number/s you wish to query.
AC 94 CW 1, 3, 4, 5, 7, 8, 9, 10 (RC holes)
C/DD 94 CW 2, 6 (diamond holes)

CRA

CRA EXPLORATION PTY LIMITED

A.C.N. 000 057 125

SUBJECT: SECOND AND FINAL REPORT FOR EXPLORATION LICENCE 1974 CHARLOTTE WELL, SOUTH AUSTRALIA FOR THE PERIOD ENDING 7TH MAY, 1996

AUTHOR: S.P. NEWBERY

DATE: JUNE, 1996

CRAE REPORT NO.: 22182

CRA EXPLORATION PTY. LIMITED

ANNUAL REPORT FOR CHARLOTTE WELL EL 1974, SOUTH AUSTRALIA, FOR THE PERIOD ENDED 31ST JULY, 1995

Gairdner SH 53-15, South Australia

AUTHOR: M.G. BARLOW/
W.A. STEWART

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CRAE ADELAIDE

DATE: 26TH SEPTEMBER, 1995

SUBMITTED BY:

ACCEPTED BY:

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1. SUMMARY

Charlotte Well EL 1974 was granted to CRAE on August 1994. Exploration in the past twelve months has concentrated on the Pinery Dam and Pascoe Well prospects, with base metals as the primary commodity.

The Pinery Dam prospect was first identified by BHP in the 1970s. Drilling in 1977 failed to intersect rocks that could explain the magnitude of the magnetic source and it appears likely that the holes terminated in intrusive dykes.

Ground magnetics undertaken in 1994 over the Pinery Dam anomaly were designed to define the anomaly geometry and facilitate the placement of a series of holes to fully test the body.

Three holes were aimed directly over the body and intersected doleritic rock at 13m. While susceptibility measurements of 4000 * 10^{-5} SI were recorded, they cannot adequately explain the magnetic anomaly. Holes drilled to the periphery of the anomaly intersected Gawler Range Volcanics.

The second area of interest was the Pascoe Well prospect, where a north east trending graben had been interpreted from the recently acquired A4 SAEI aeromagnetic data. A mineralisation setting broadly similar to Mt Gunson was interpreted and exploration work was aimed at targeting trapping mechanisms for migrating fluids, such as unconformity surfaces and bounding faults. The concept was tested with across-strike traverses of gravity, ground magnetics, CSAMT and a series of TEM soundings.

While the gravity and ground magnetics confirmed the general graben geometry, there was some disparity between the two data sets as to the exact positions of the bounding faults. Ten line kilometres of CSAMT and 20 TEM soundings were undertaken across zones of interest but only weak conductors were detected.

Despite the lack of encouraging results from the electrical geophysics, five holes were drilled along the traverse to test various aspects of the graben and to test a discrete magnetic anomaly on the northern edge of the northern horst. No significant results were obtained.

2. INTRODUCTION

Charlotte Well EL 1974 was granted on August 1st 1994. The tenement covered an area of approximately 2406 square kilometres, 70 km to the west of Woomera, South Australia. The EL was reduced to 230 square kilometres after the first year of exploration. Plan SAa 6255 shows the location of the tenement as well as the current EL boundaries.

EL 1974 covers the northern part of Lake Gairdner. Lithologies are dominated by Proterozoic rhyolites and dacites. Pandurra Formation onlaps the basement to the west, and is unconformably overlain by Adelaidean Tent Hill Formation. Numerous north-west trending dykes of the Gairdner Dyke swarm intrude the basement and Pandurra Formation. Occasional north-east trending dykes can also be discerned in the magnetics. Jurassic/Cretaceous Sediments overlay basement and Adelaidean to the north.

The area was flown with magnetics as part of the A4 South Australian exploration initiative (SAEI) in April/May 1993. Exploration interest focussed on a north east trending graben, identified from the airborne magnetics and referred to as the Pascoe Well prospect. A re-evaluation of the BHP Pinery Dam prospect was also undertaken.

3. CONCLUSIONS

Additional ground magnetic work and drilling at the Pinery Dam prospect has failed to adequately explain the very large magnetic source at this site. No further work is warranted however, due to the unprospective nature of the rock (dolerite) intersected.

Gravity and magnetics at the Pascoe Well grid defined a possible graben structure in basement. If sagging and compaction of suitable sediments within the graben had occurred then potential exists for base metal mineralisation in geochemical and structural trap sites of migrating fluids.

Strategic zones within the graben were tested with CSAMT and TEM soundings. No significant conductors were recorded. It was also shown that the area is not particularly amenable to these techniques due to very conductive, near- surface conditions.

A fence of five drill holes placed across the graben intersected the Tent Hill and Pandurra Formations at similar depths. The data indicated that graben formation had been pre-depositional to these sediments and that the traverse was on the extreme edge of the basin. No significant results were obtained and no reducing sediments were intersected.

4. INVESTIGATIONS

Exploration focussed on two prospect areas:

Pascoe Well

A NE-trending graben 8 km wide with basement highs to the NW and SE was interpreted from aeromagnetics (MESA, 1993). The graben is in the vicinity of a number of unconformities between Gawler Range Volcanics, Pandurra Formation, Adelaidean Tent Hill Formation and Jurassic/Cretaceous sediments (Blisset, 1977). The Pandurra/Adelaidean basin deepens eastwards.

The setting is broadly similar to that at Mt. Gunson and it was conceived that mineralisation may be trapped geochemically by suitable sediments (e.g. reducing) within the Pandurra Formation or Tent Hill Formation on the edges and tops of the interpreted horst structures. The graben is a potential focus for fluids deriving from sagging and compaction within the graben and from the deeper basin to the east. The unconformity surfaces, graben faults and boundary faults are suitable conduits for such fluids. This concept was tested and defined by a variety of geophysical methods and drilling.

Pinery Dam

Interpretation of aeromagnetics (MESA, 1993) identified a discrete magnetic anomaly, 3.5 x 1.5 km, near Pinery Dam. This anomaly was previously recovered with ground magnetics by BHP (1977) and drill tested with one hole. Dolerite was intersected at 23m depth, and the main magnetic mineral was ilmenite. It was possible that the hole intersected one of the many Gairdner Dykes rather than the cause of the anomaly.

The anomaly was followed up in this reporting period with ground magentics and drilling.

4.1 Ground Magnetics

A total of 22 line kilometres of ground magnetics were recorded to test magnetic anomalies identified from the A4 SAEI aeromagnetic data. The data were recorded over seven grids and two north south traverses across a postulated half graben at the Pascoe Well prospect. Locations are shown on plan SAa 6504.

Plans SAa 6488 and 6328 show magnetic profiles for traverses 7700E and 8000E across the Pascoe Well graben respectively.

Between stations 16800 and 18400N on line 8000E, the traverse follows a buried pipe line and the data is contaminated by high frequency noise. Spikes at 12400, 19200 and 8200 on the same line, relate to intrusives across the magnetic basement and are possibly responses associated with various dykes.

Overall, the data confirms a basement high on the northern edge of the traverses with a rapid increase to magnetic basement to the south at stations 49000N and 18800N on lines 7700E and 8000E respectively. Line 8000E also shows that the basement appears to be shallower towards the southern margin of the traverse, in agreement with the proposed graben model.

Ground magnetic profiles for the grids labelled A to F are included as Plans SAa 6492 to 6497. They were targeted at various dykes on the up block portion of the Pascoe Well graben. In all cases the aeromagnetic targets haves been identified and represent magnetic anomalies of 100 to 200nT on the ground. All the anomalies with the exception of E appear to have depth to tops of between 50 and 75m. The depth to the top of the source for E appears to be slightly deeper at 150 to 200m below surface.

Eight line kilometres of ground magnetics were completed across the southern part of the Pinery Dam anomaly, presented on plan SAa 6491. Ground magnetics and drilling was undertaken at this site by BHP in 1977, but previous work failed to adequately explain the high magnetisation. The new grid was designed to provide additional, detailed mapping of the anomaly boundaries for a planned 'fence' of drill holes to positively identify the causative body (see the section on drilling in this report).

Due to the very shallow nature of the target, the magnetics clearly outline the boundaries of the body. Modelling suggests that the susceptibility exceeds 10000 * 10^{-5} SI, twice that recorded in the BHP hole. Demagnetisation and/or remanence may need to be invoked.

4.2 Gravity

One hundred and sixty gravity stations were recorded at 100 m intervals along lines 7700E and 8000E on the Pascoe Well grid. Bouguer gravity and elevation profiles are presented in plans SAa 6489 and 6490 for line 7700E and plans SAa 6329 and 6330 for line 8000E. Data listings and processing sequence are provided in Appendix II.

The data has been reduced with a Bouguer reduction density of 2.3 g/cc. This was found to be the optimum in reducing correlation between elevation and the gravity profile. It is also considered to be realistic in view of the fairly thick sequence of overburden and weathered material present.

Line 8000E shows basement block highs on the northern and southern edges of the traverse. While both the gravity and magnetics put the northern edge of the southern block near stations 8000 to 8400E, there is a disparity of over 3 km between the data sets for the southern contact of the northern block. One possible explanation is that the northern block is composed of banded volcanics with only the most northern half being magnetic.

Assuming a depth to basement on the northern block of 50 m (based on the magnetic modelling to the top of the dykes) and a density contrast of 0.3 -0.4 g/cc, modelling suggests that the depth to basement in the centre of the graben is at least 150 m from surface.

4.3 Controlled Source AMT (CSAMT)

Three sections of scalar CSAMT were recorded along line 8000E, shown on plan SAa 6503. CSAMT was employed in an attempt to define the geometry of the postulated graben and also to detect any electrical contrasts associated with mineralisation. In this regard, the contacts between basement highs and lows (based primarily on the gravity data) and the 0.5 mgal high between stations 12800 and 14000N were the primary targets for surveying. The sections surveyed were as follows:

1. 17275-19200E at 25m stations
2. 11600-17275E at 50m stations
3. 7600-10000E at 50m stations

The work was recorded by Zonge Engineering P/L of Fullarton, S.A. in October and November 1994. Recording details are provided in Appendix III. Sections of the raw data: impedance phase, Cagniard resistivity, and the static-corrected resistivity, and the contractors interpretation are contained in Appendix IV. Details of the static correction methodology are provided in Appendix V.

Plans SAa 6352 to 6353 show smooth model inversions for the CSAMT traverses. The proprietary inversion process is briefly explained in Appendix V.

Referring to the inversions and raw data, the following conclusions can be made:

1. The depth of penetration is limited to 200 m and normally about 100m.
2. A three layered geology is evident.
3. The first layer, or near surface has a variable conductivity and effectively maps topography; topographic highs, particularly dunes are resistive with lows being relatively conductive.
4. The second layer varies in thickness between 25 and 100m and is extremely conductive ($\rho < 5\ \Omega$.m). This has produced recording conditions where the near field occurs at very shallow depths.
5. A third, more resistive layer is evident along the entire traverse with resistivities of approximately 10 Ω.m. With such a small resistivity, this is unlikely to be basement and probably represents either weathered basement or overlying sediments. It is shallowest between 18100 and 18600N with another slightly deeper section between 16500 and 17100N.
6. There are numerous single station anomalies (such as at 16300N) that possibly relate to near surface heterogeneities and should be disregarded.
7. Only one anomaly can be identified; a conductive feature centred on 17150N with a depth to source of 100m.

4.4 TEM

In-loop TEM soundings were also undertaken along line 8000E to detect conductive targets along or near faults associated with the graben geometry. The first set of soundings were recorded with a 100 * 100m transmitter centred on 18450, 17950, 17450, 16950, 16450, 15450, 14950, 14450, 13950, 13450, 12950 and 12600N. Work was recorded by Zonge Engineering P/L in November 1994 with details provided in Appendix III.

Decay curves for the loop placements are presented in Appendix VI. No conductors were identified but it was felt that the with the very conductive overburden, the loop moment was not large enough to provide sufficient sampling of the late time response.

The 100m soundings at 17950, 18450, 18850 and 18950 and 19050N appear to be contaminated by near surface IP effects, evident as the negative early time response.

A second set of TEM soundings were performed by the same contractor using a 200*200m loop, with the primary aim to test the CSAMT anomaly centred on 17150N. Transmitter placements were centred on 16450, 16850, 16950, 17050, 17150, 18450, 18950 and 19050N. Decay curves are presented in Appendix V.

No conductors or anomalous zones were identified. However, the larger transmitter has extended the useable data window by 20 msec out to 60 msec after turnoff. Note also that the IP effect on the 100*100m transmitter data at stations 18450, 18950 and 19050N has been removed with the larger transmitter geometry.

4.5 Drilling

4.5.1 *Pascoe Well*

One diamond hole (RC/DD94CW6) and four RC holes (RC94CW7 to RC94CW10) were drilled to test across the graben (plans SAa 6328, 6358, 6488). None of the holes intersected Gawler Range Volcanics and all ended in Pandurra Formation (Appendix VII).

Hole RC/DD94CW6 was drilled to obtain a stratigraphic section in the centre of the graben. Holes RC94CW7, RC94CW9 and 10 were drilled to test various portions of the interpreted horst and weak CSAMT conductors at 17150N and 18925N. Hole RC94CW8 was drilled to test a discrete magnetic anomaly on the northern edge of the northern horst. No significant assays were returned and no reducing sediments were intersected.

4.5.2 *Pinery Dam*

A fence of five vertical aircore holes (AC94CW1, AC/DD94CW2, AC94CW3-5; plan SAa 6491) were drilled across the anomaly for a total of 213m to identify the cause of the anomaly. Hole AC/DD94CW2 included a diamond tail (11.5m).

Doleritic rock was intersected in AC94CW1, AC/DD94CW2 and AC94CW3 corresponding to the magnetic anomaly (Appendix VII). Gawler Range Volcanics were intersected peripheral to the anomaly in holes AC94CW4 and AC94CW5 (Appendix VII). No significant assays were returned.

Two samples of the doleritic rock from the diamond tail of AC/DD94CW2 were submitted for petrological description (Appendix VIII). Sample 1156565 was collected from the interval 43.00 to 43.10m and sample 1156566 was collected from the interval 53.45 to 53.65m.

Susceptibility measurements from the doleritic rock did not match that predicted by modelling (max. 4000 x 10^{-5} SI). Magnetic remanence may explain this.

4.6 Diamond Indicator Sampling

As part of CRAE regional diamond sampling program, eight 40 kg bulk samples were collected from the top 20m of holes RC/DD94CW6, RC94CW7, RC94CW9 and RC94CW10 for observation of kimberlitic indicator minerals. Chromites were reported in two samples from the top 10m of CW9 and CW10 with negative results for all other samples submitted (Appendix I).

M.G. BARLOW

MGB/dt Reports/Charlotte Well

REFERENCES

Blisset, A.H., 1977. S.A. Geological Series Sheet SH5315 Gairdner. Department of Mines SA.

MESA, 1993. SAEI Geophysical 1:250 000 series, part sheets SH5311, SH5315 and SI5303. South Australian Department of Mines and Energy.

LOCATION

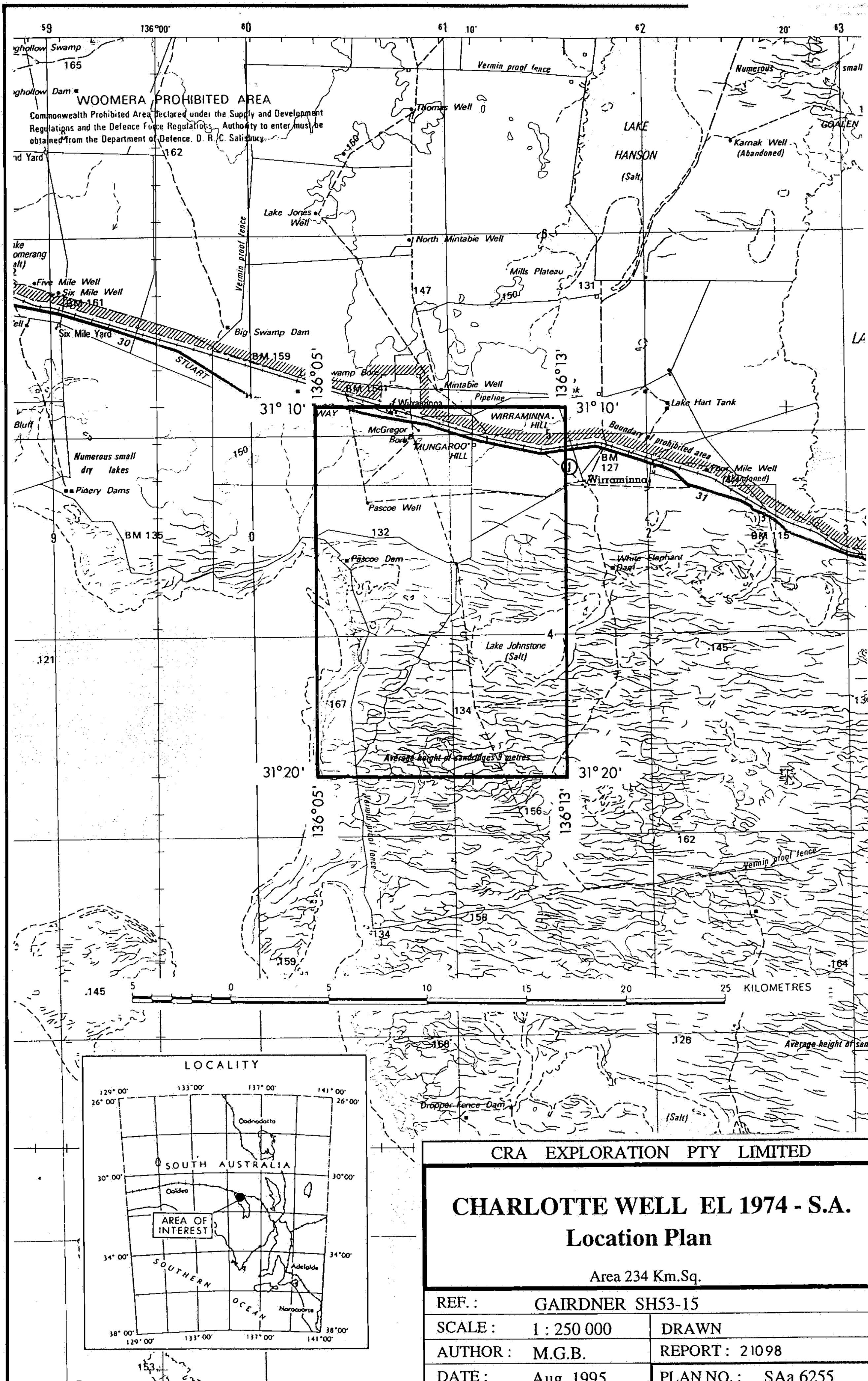
Gairdner SH53-15 1:250 000 sheet

KEYWORDS

Chromite, Gairdner Dyke, Gawler Range Volcanics, Geophysics-magnetics, Geophysics-gravity, Geophysics-CSAMT, Mt. Gunson, Pinery Dam, Pandurra Formation, Transient Electromagnetics (TEM), South Australian Exploration Initiative (SAEI) - A4.

LIST OF DPO'S

54363, 54357, 54320, 54358



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CHARLOTTE WELL EL 1974 - S.A.
Location Plan

Area 234 Km.Sq.

REF. :	GAIRDNER SH53-15		
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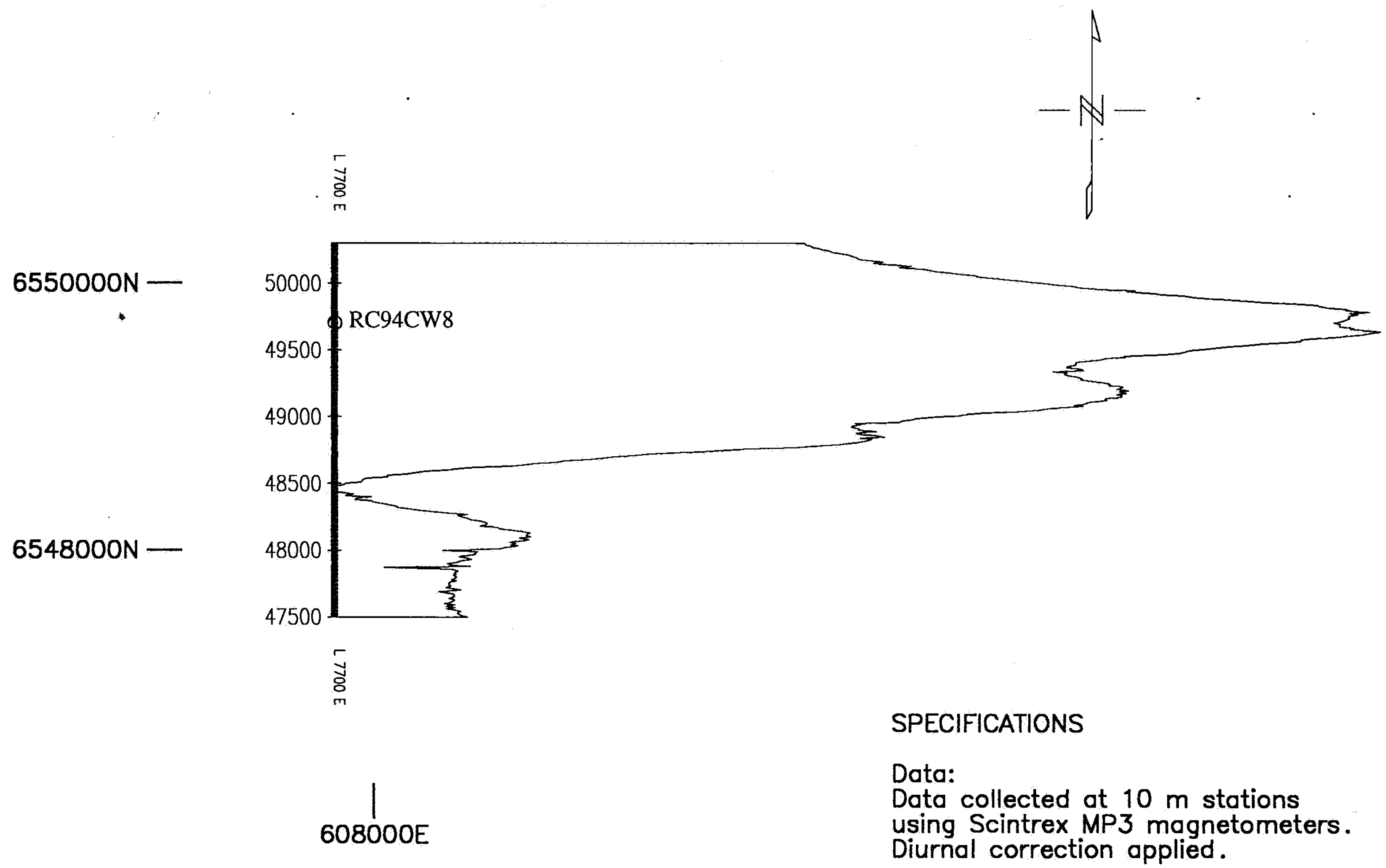
AUTHOR :	M.G.B.	REPORT :	21098
DATE :	Aug. 1995	PLAN NO. :	SAa 6255



SPECIFICATIONS

Data:
Data collected at 10 m stations using Scintrex MP3 magnetometers. Diurnal correction applied.

PROFILES:
Vertical Scale - 25 nT/cm

Scale 1:50000

500 0 500 1000 1500

(metres)

CRA

CRA EXPLORATION PTY LIMITED	
CHARLOTTE WELL EL 1974 LINE 7700E GROUND MAGNETIC PROFILE	
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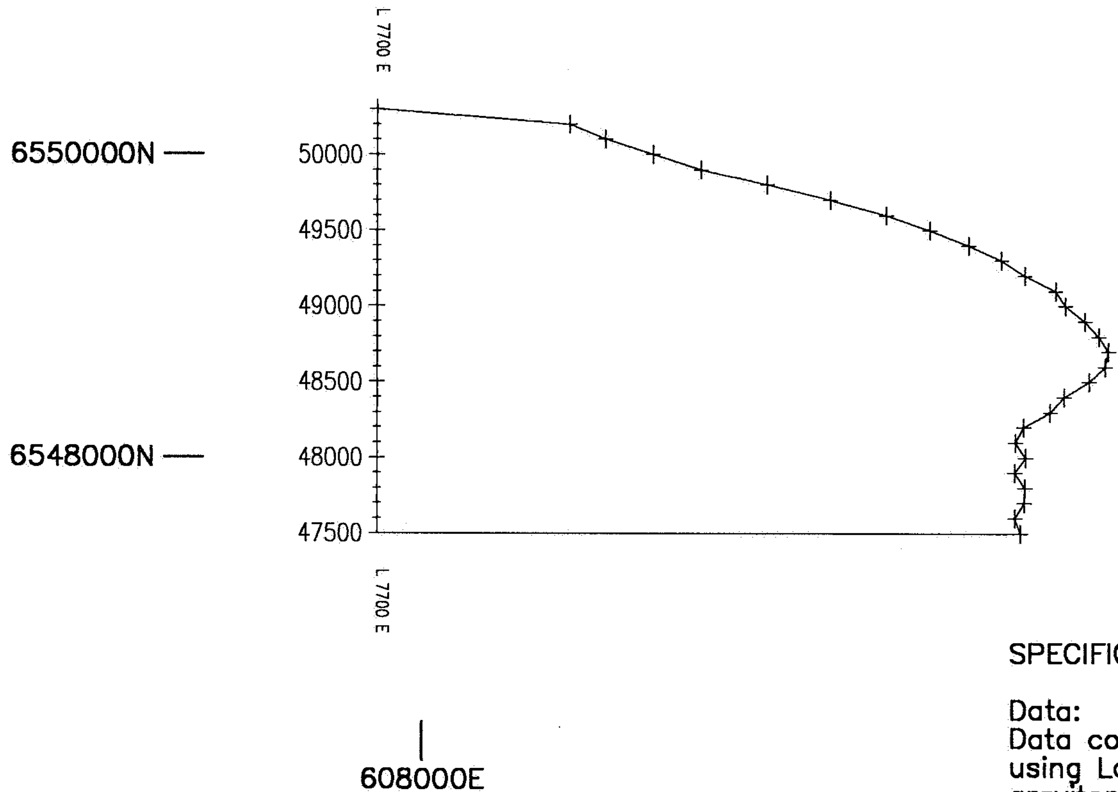
AUTHOR MGB	REPORT 21098
DATE Sep 95	PLAN No SAa 6488



SPECIFICATIONS

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Machine constant - 1.055
Operator - MGB
Meter drfit correction applied
Latitude correction applied - ISGAL65
Free air correction applied - 2gh/R
Bouguer reduction density - 2.3 g/cc

Profiles:
Vertical Scale - 0.5 mgal/cm

Scale 1:50000

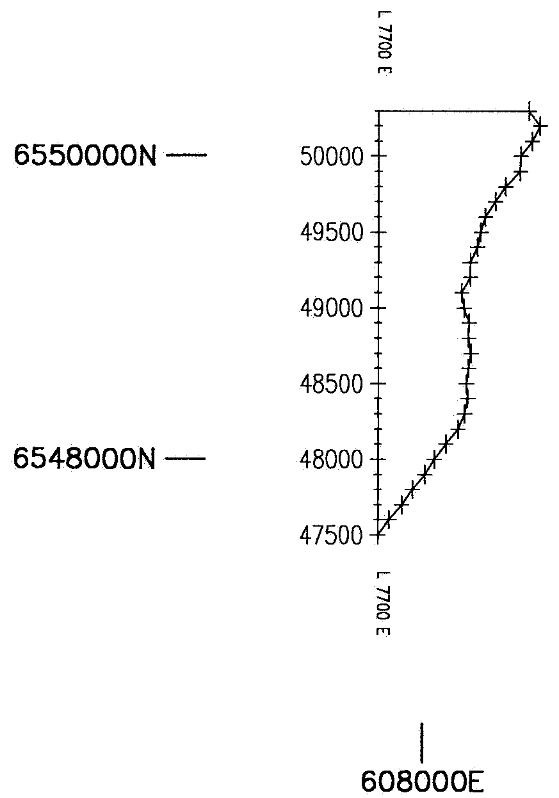
500 0 500 1000 1500

(metres)

CRA

CRA EXPLORATION PTY LIMITED	
CHARLOTTE WELL EL 1974	
LINE 7700E	
BOUGUER GRAVITY PROFILE	
REF. GAIRDNER SH 53-15	
SCALE 1:50,000	DRAWN MGB
AUTHOR MGB	REPORT 21098
DATE Sep 95	PLAN No SAa 6489

J00018



SPECIFICATIONS

Data:
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Profile:
Relative elevation
Vertical scale – 5 m/cm

Scale 1:50000

500 0 500 1000 1500 (metres)

CRA

CRA EXPLORATION PTY LIMITED	
CHARLOTTE WELL EL 1974 LINE 7700E ELEVATION PROFILE	
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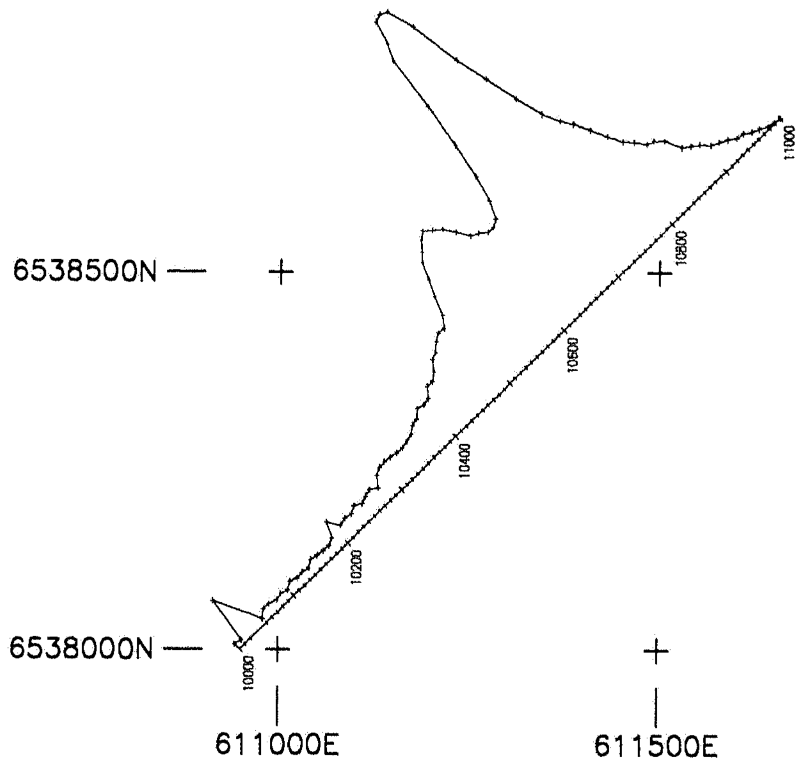
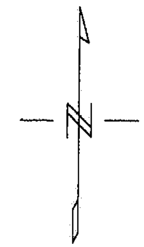
AUTHOR MGB	REPORT 21098
DATE Sep 95	PLAN No SAa 6490





SPECIFICATIONS

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Recorded August 1994.
Diurnal correction applied.

PROFILES:
Vertical Scale - 50 nT/cm

Scale 1:10000
250 0
(metres)

CRA

CRA EXPLORATION PTY LIMITED	
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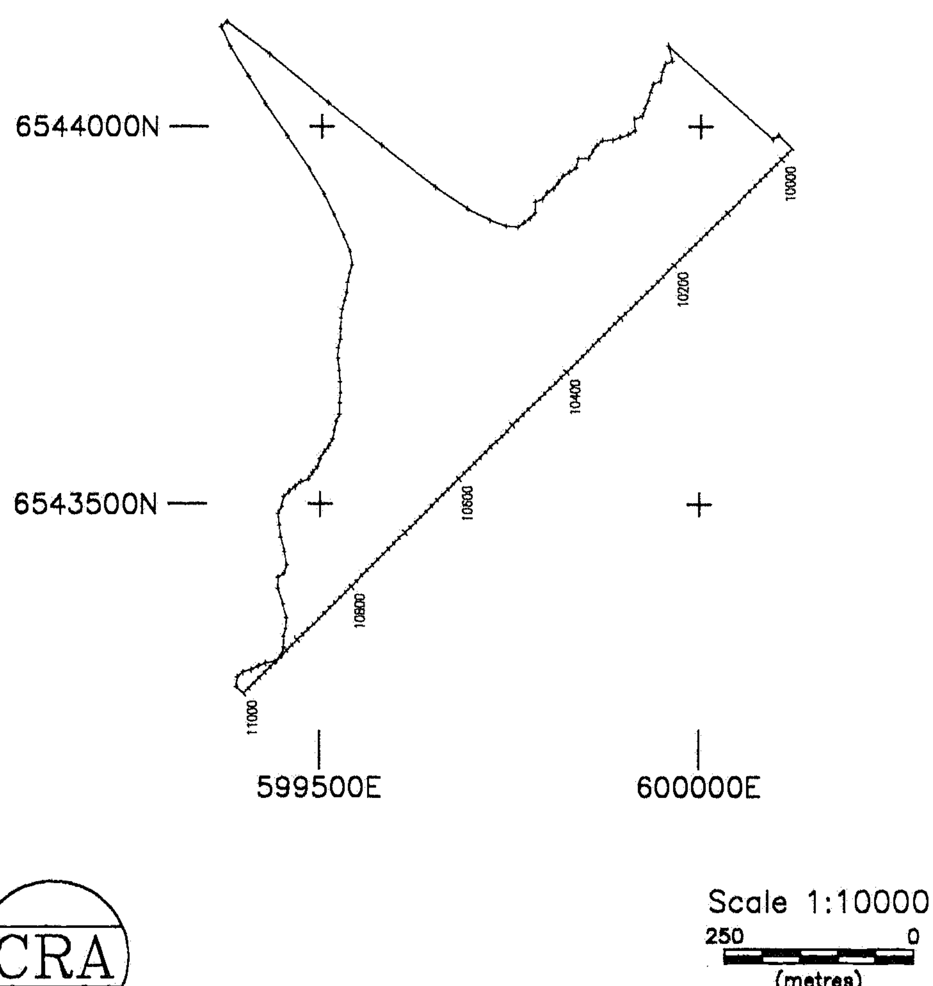
AUTHOR MGB	REPORT 21098
DATE Sep 95	PLAN No SAa 6492



SPECIFICATIONS

Data:
Data collected at 10 m stations
using Scintrex MP3 magnetometers.
Recorded August 1994.
Diurnal correction applied.

PROFILES:
Vertical Scale - 50 nT/cm

CRA

CRA EXPLORATION PTY LIMITED	
CHARLOTTE WELL EL 1974 GRID A GROUND MAGNETIC PROFILES	
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AUTHOR MGB	REPORT 21098
DATE Sep 95	PLAN No SAa 6493

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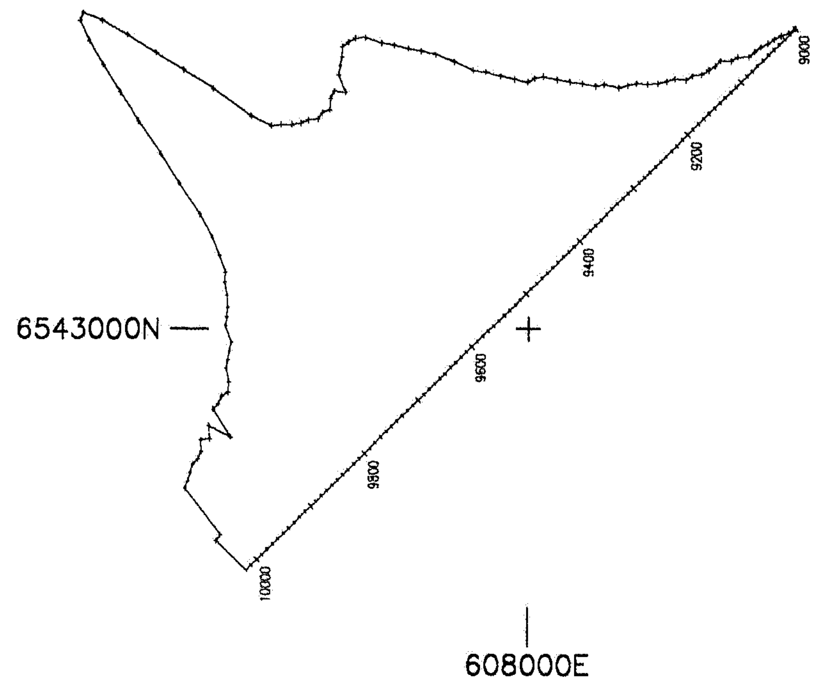

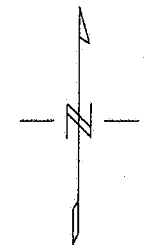

SPECIFICATIONS

Data:
Data collected at 10 m stations
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Recorded August 1994.
Diurnal correction applied.

PROFILES:
Vertical Scale - 50 nT/cm

CRA

Scale 1:10000
250 0
(metres)

CRA EXPLORATION PTY LIMITED	
CHARLOTTE WELL EL 1974 GRID C GROUND MAGNETIC PROFILES	
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AUTHOR MGB	REPORT 21098
DATE Sep 95	PLAN No SAa 6494

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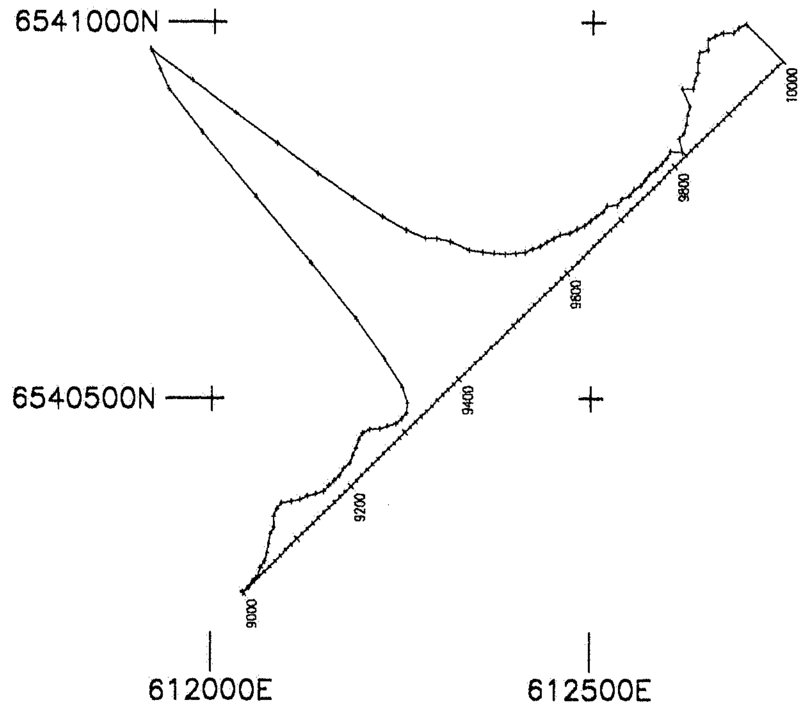

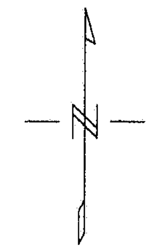

SPECIFICATIONS

Data:
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Recorded August 1994.
Diurnal correction applied.

PROFILES:
Vertical Scale - 50 nT/cm

Scale 1:10000

100 0 100 200 300
(metres)

CRA

CRA EXPLORATION PTY LIMITED	
CHARLOTTE WELL EL 1974 GRID F GROUND MAGNETIC PROFILES	
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AUTHOR MGB	REPORT 21098
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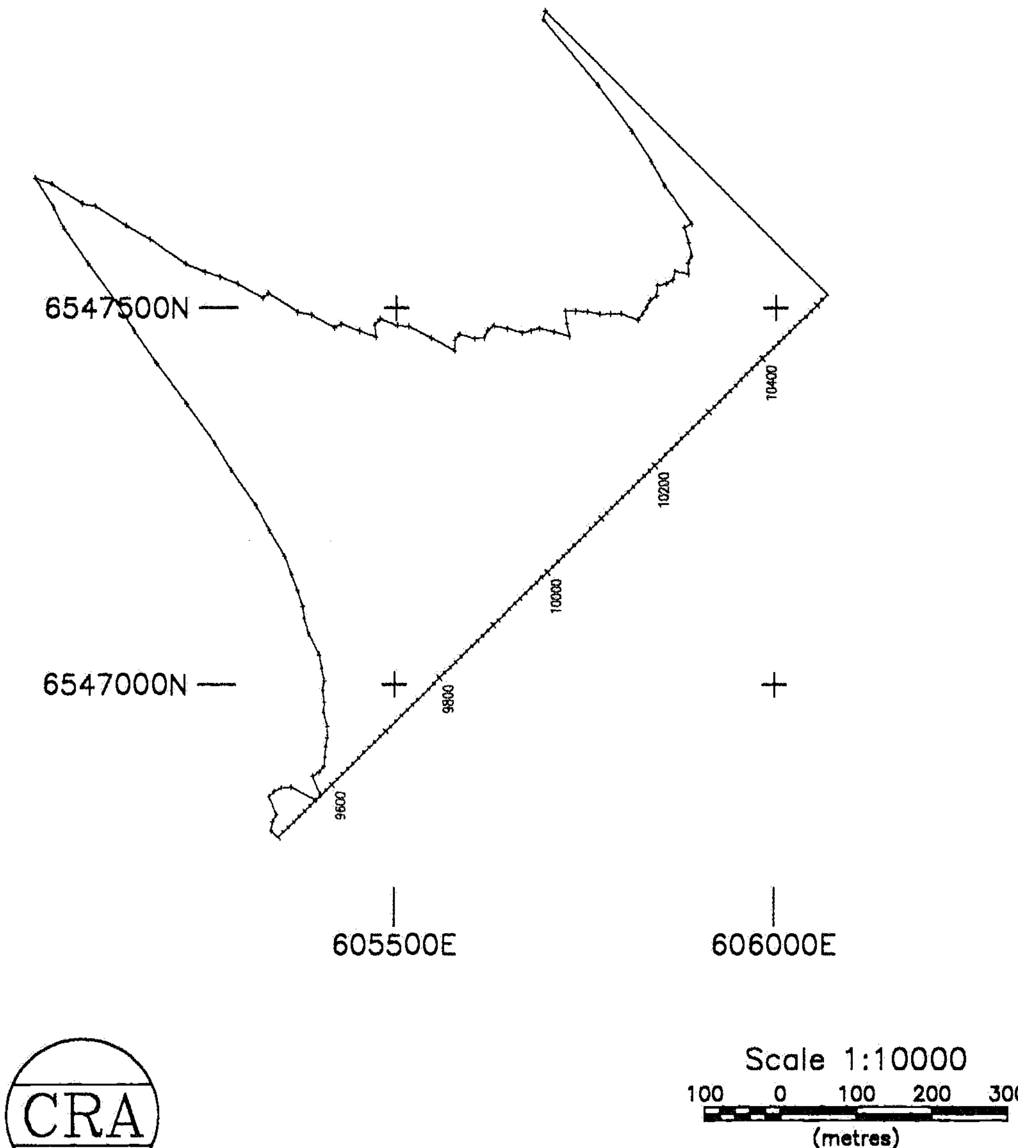

CRA

SPECIFICATIONS

Data:
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using Scintrex MP3 magnetometers.
Recorded August 1994.
Diurnal correction applied.

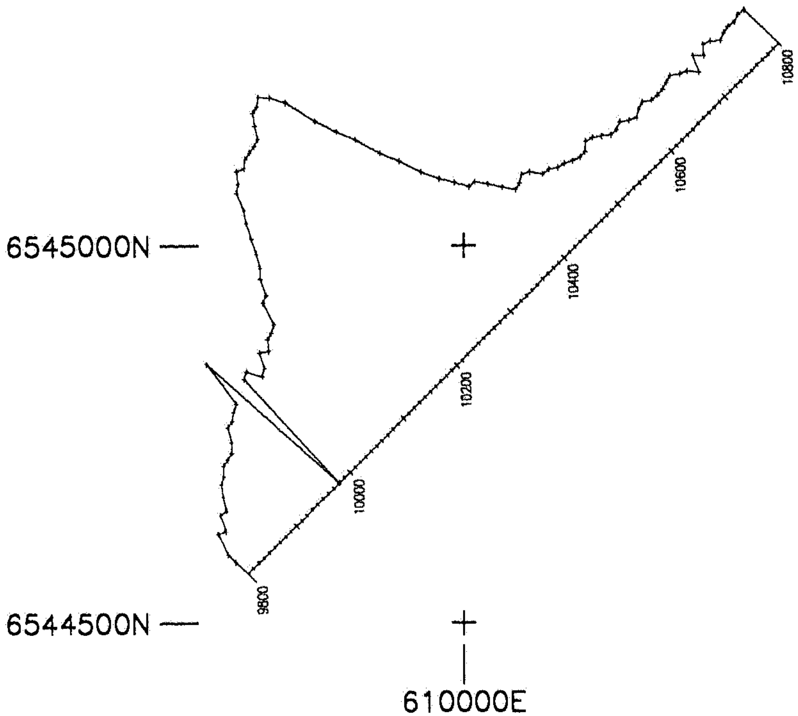
PROFILES:
Vertical Scale - 25 nT/cm

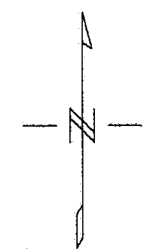
CRA EXPLORATION PTY LIMITED

CHARLOTTE WELL EL 1974
GRID B
GROUND MAGNETIC PROFILES

REF. GAIRDNER SH 53-15

SCALE 1:10,000	DRAWN MGB
AUTHOR MGB	REPORT 21098
DATE Sep 95	PLAN No SAa 6496





SPECIFICATIONS

Data:
Data collected at 10 m stations
using Scintrex MP3 magnetometers.
Recorded August 1994.
Diurnal correction applied.

PROFILES:
Vertical Scale - 25 nT/cm

Scale 1:10000

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(metres)

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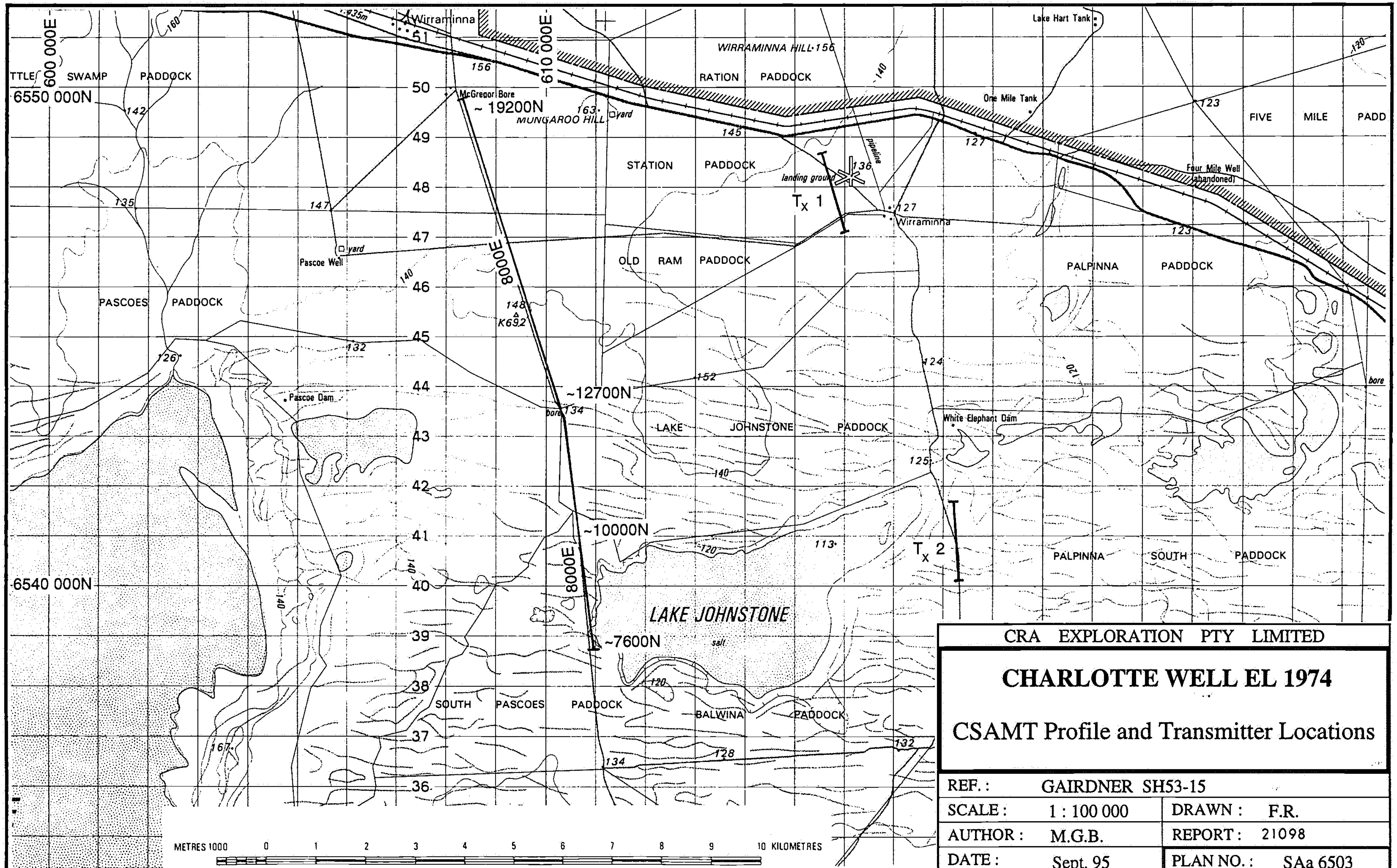
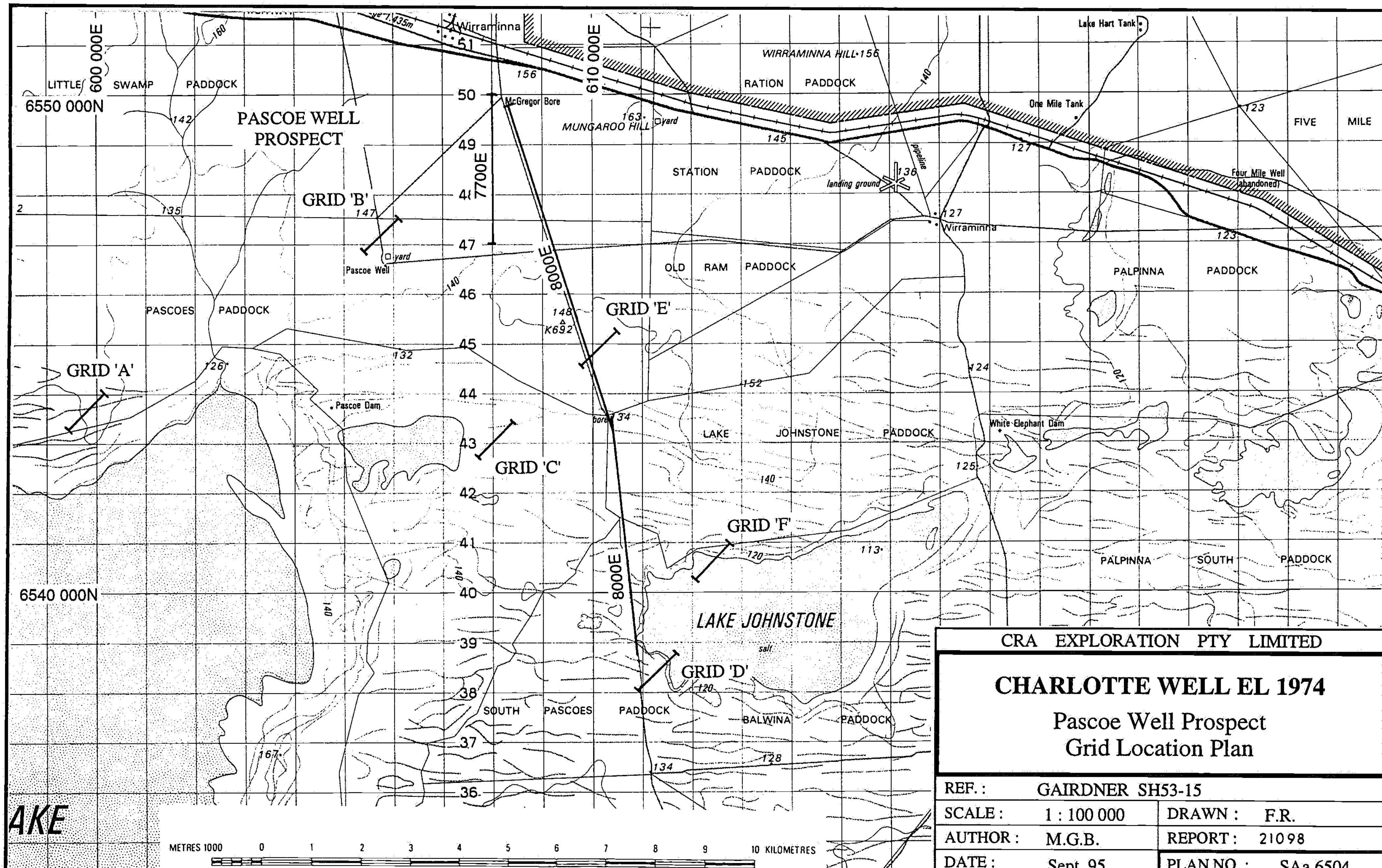
AUTHOR MGB	REPORT 21098
DATE Sep 95	PLAN No SAa 6497


CRA EXPLORATION PTY LIMITED
CHARLOTTE WELL EL 1974
CSAMT Profile and Transmitter Locations
REF.: GAIRDNER SH53-15
SCALE: 1 : 100 000
DRAWN: F.R.
AUTHOR: M.G.B.
REPORT: 21098
DATE: Sept. 95
PLAN NO.: SAa 6503
600 000E
610 000E
6550 000N
6540 000N
~ 19200N
~12700N
~10000N
~7600N
8000E
8000E
Tx 1
Tx 2
Wirraminna
WIRRAMINNA HILL 156
MUNGAROO HILL
McGregor Bore
Pascoe Well
Pascoe Dam
Lake Hart Tank
One Mile Tank
Four Mile Well (abandoned)
White Elephant Dam
landing ground
pipeline
yard
bore
K692
SWAMP PADDOCK
RATION PADDOCK
STATION PADDOCK
OLD RAM PADDOCK
PASCOES PADDOCK
LAKE JOHNSTONE PADDOCK
PALPINNA PADDOCK
PALPINNA SOUTH PADDOCK
FIVE MILE PADD
SOUTH PASCOES PADDOCK
BALWINA PADDOCK
LAKE JOHNSTONE
salt
METRES 1000 0 1 2 3 4 5 6 7 8 9 10 KILOMETRES



CRA EXPLORATION PTY LIMITED			
CHARLOTTE WELL EL 1974 Pascoe Well Prospect Grid Location Plan			
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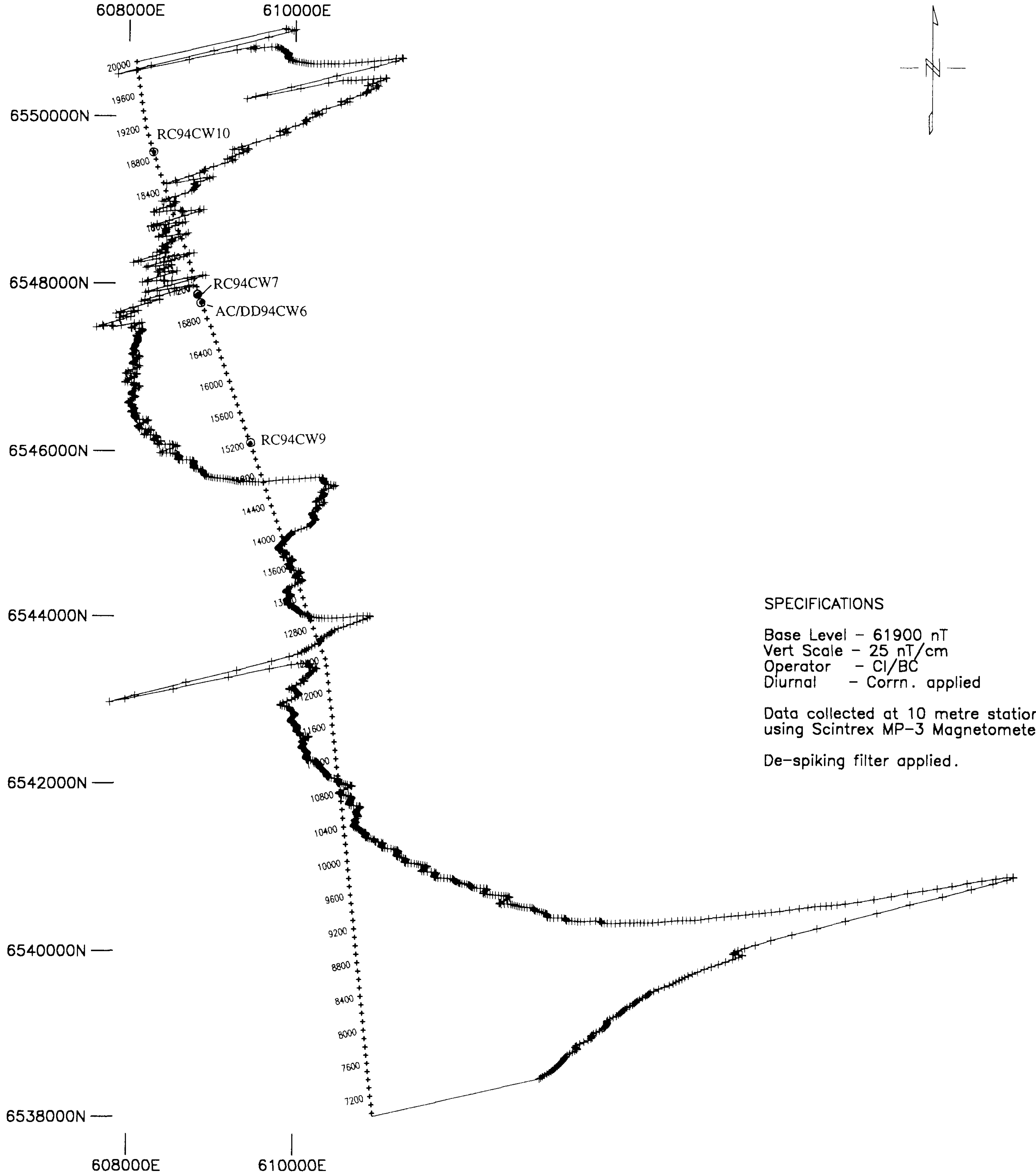
SCALE:	1 : 100 000	DRAWN:	F.R.
AUTHOR:	M.G.B.	REPORT:	21098
DATE:	Sept. 95	PLAN NO.:	SAa 6504

J000026



SPECIFICATIONS

Base Level – 61900 nT
Vert Scale – 25 nT/cm
Operator – CI/BC
Diurnal – Corrn. applied

Data collected at 10 metre stations using Scintrex MP-3 Magnetometer.

De-spiking filter applied.

CRA

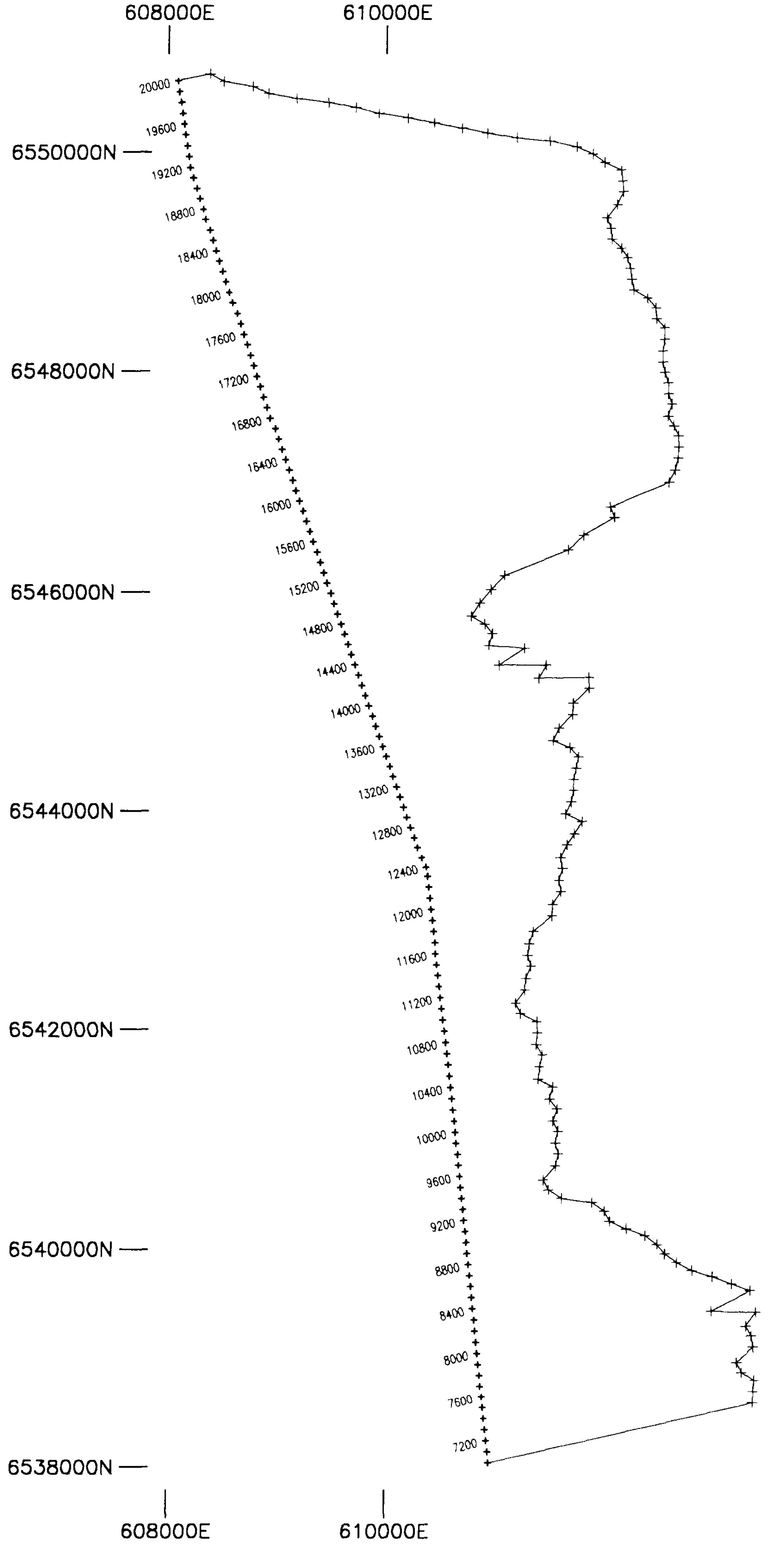
Scale 1:50000

500 0 500 1000 1500 2000

(meters)

CRA EXPLORATION PTY LIMITED	
CHARLOTTE WELL EL 1974 LINE 8000E GROUND MAGNETIC PROFILE	
REF. GAIRDNER SH 53-15	
SCALE 1:50,000	DRAWN MGB
AUTHOR DW	REPORT 21098
DATE Sep '94	PLAN No SAa 6328

8962-1



SPECIFICATIONS

Vert Scale – 0.5 mgal/cm
Machine constant – 1.055
Operator – MGB
Bouguer reduction density – 2.3 g/cc

Data collected at 100 metre stations using LaCoste and Romberg G-282 with 2 hour base stations.

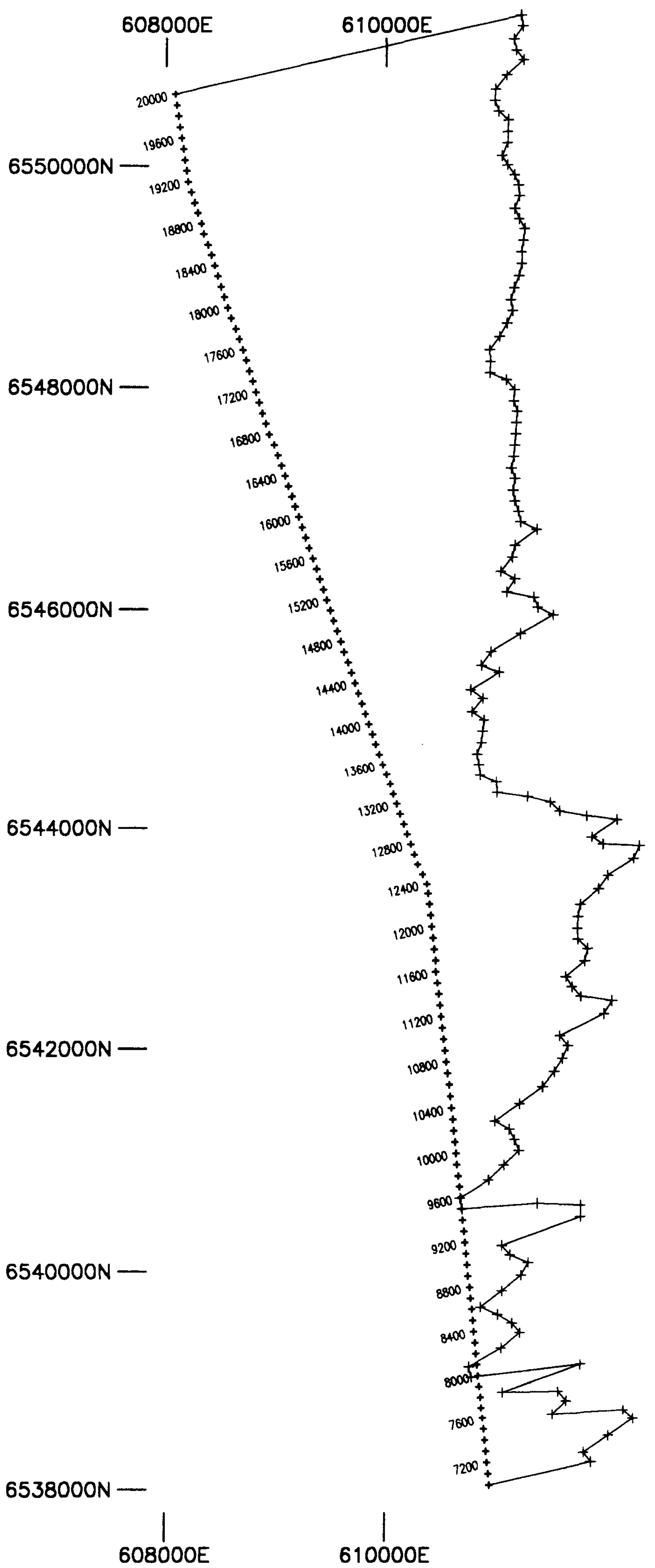
CRA

Scale 1:50000

500 0 500 1000 1500 2000
(meters)

CRA EXPLORATION PTY LIMITED	
CHARLOTTE WELL EL 1974	
LINE 8000E	
BOUGUER GRAVITY PROFILE	
REF. GAIRDNER SH 53-15	
SCALE 1:50,000	DRAWN MGB
AUTHOR DW	REPORT 21098
DATE Sep '94	PLAN No SAa 6329

8962-2



SPECIFICATIONS

Vert Scale – 5 m/cm
Base Level – 120 m
Operator – CI/BC

Data optically levelled.
Loop closed with 2 cm discrepancy

CRA

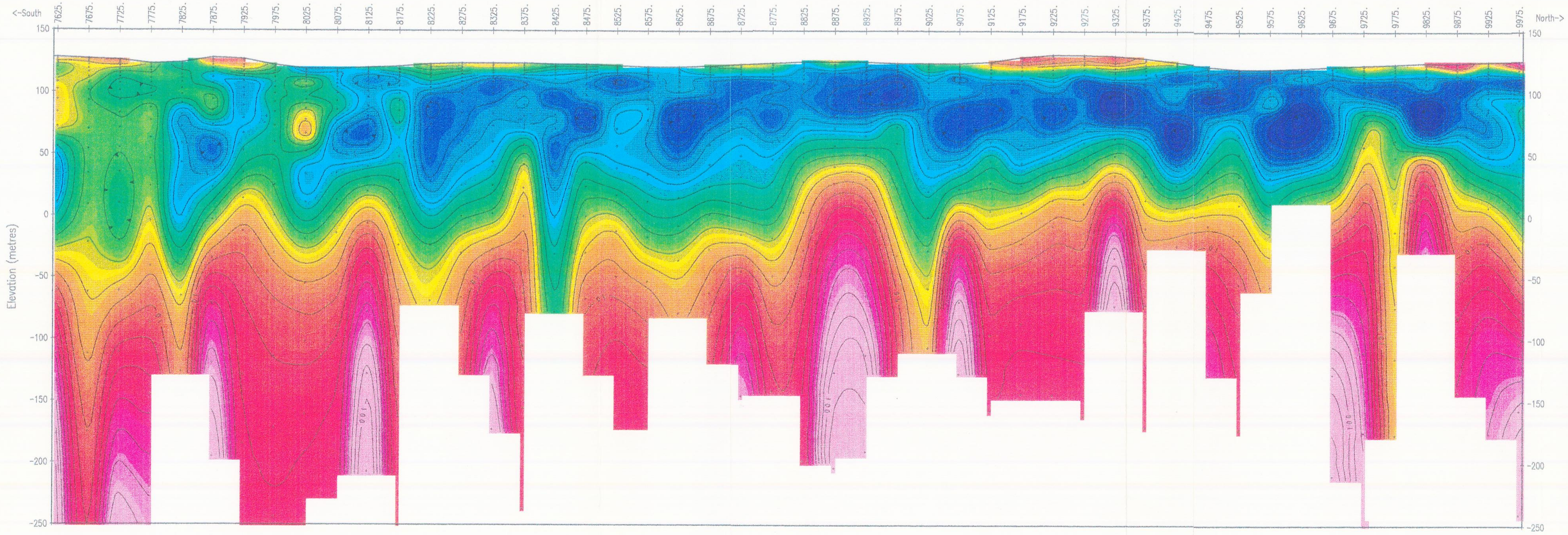
Scale 1:50000

500 0 500 1000 1500 2000

(meters)

CRA EXPLORATION PTY LIMITED	
CHARLOTTE WELL EL 1974 LINE 8000E ELEVATION PROFILE	
REF. GAIRDNER SH 53-15	
SCALE 1:50,000	DRAWN MGB
AUTHOR DW	REPORT 21098
DATE Sep '94	PLAN No SAa 6330

8962-3



Charlotte Well Line 8000 E

Smooth-model Resistivity (ohm-metres)
Plotted 14/11/94 for CRA Exploration

50 0 50 100
(meters)

CRA EXPLORATION PTY LIMITED

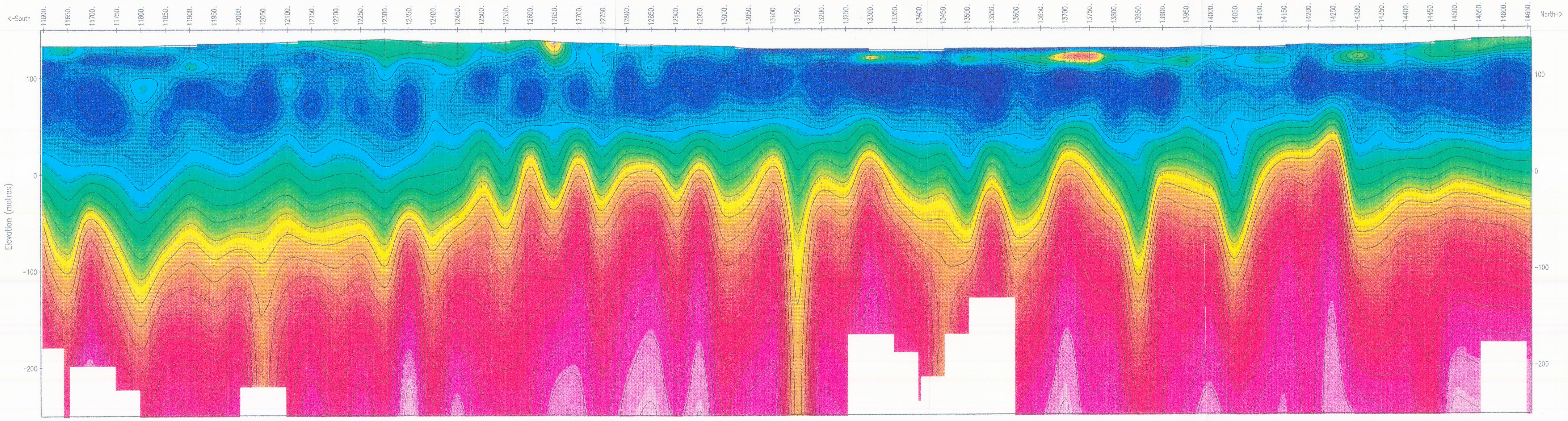
Charlotte Well

Line 8000 E

Smooth-model Inversion of CSAMT Data

AUTHOR	DRAWN	DATE	SCALE	REPORT
		14/11/94	1:5000	21098
REF. SH 53-15		FILE		Plan No. SAa 6352

8962-4



Charlotte Well Line 8000 E

Smooth-model Resistivity (ohm-metres)
Plotted 14/11/94 for CRA Exploration

50 0 50 100
(meters)

8962-5

CRA EXPLORATION PTY LIMITED

Charlotte Well

Line 8000 E

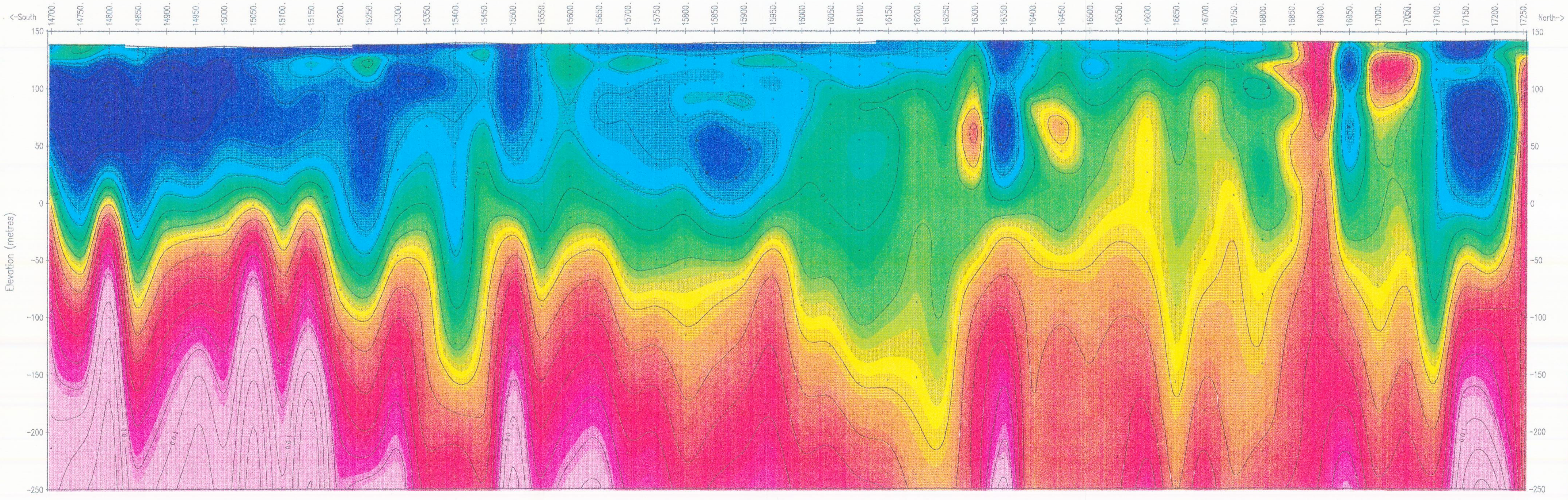
8962-5

Smooth-model Inversion of CSAMT Data

AUTHOR	DRAWN	DATE	SCALE	REPORT
		14/11/94	1:5000	21098

REF. SH 53-15 FILE Plan No. SAa 6353

Charlotte Well Line 8000 E

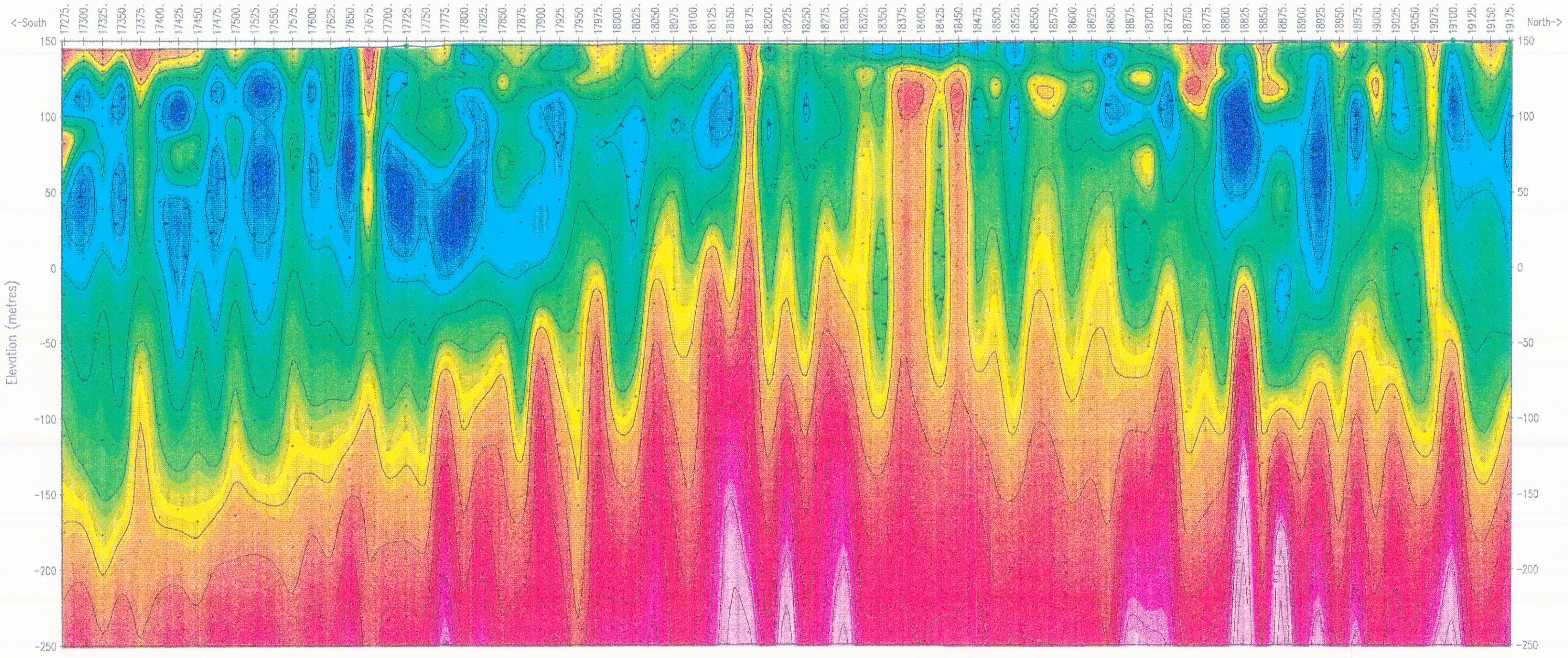


Smooth-model Resistivity (ohm-metres)
Plotted 11/11/94 for CRA Exploration

100 0 100
(meters)

8962-6

CRA EXPLORATION PTY LIMITED				
Charlotte Well Line 8000 E Smooth-model Inversion of CSAMT Data				
AUTHOR	DRAWN	DATE	SCALE	REPORT
		11/11/94	1:5000	21098
REF. SH 53-15		FILE		Plan No. SAa 6354



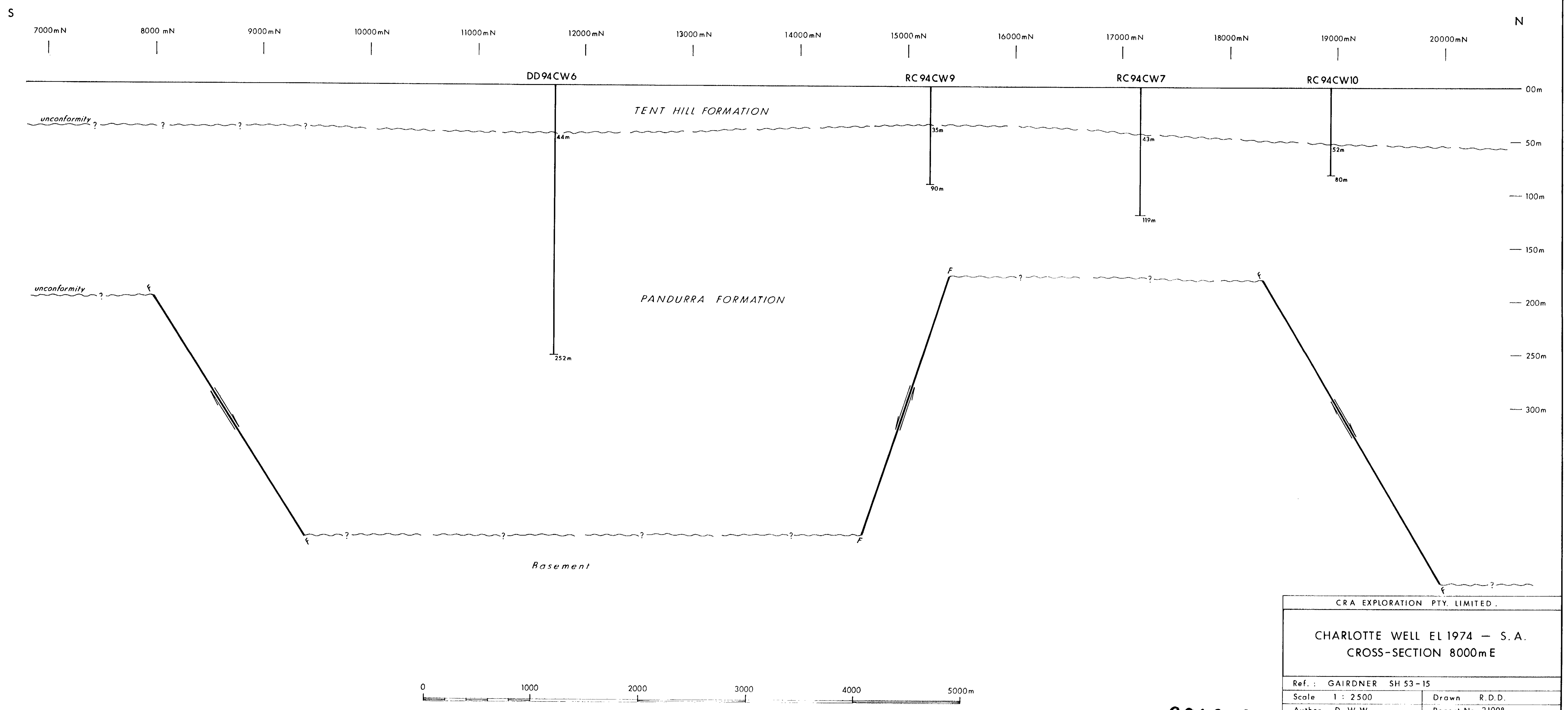
Charlotte Well Line 8000 E

Smooth-model Resistivity (ohm-metres)
Plotted 14/11/94 for CRA Exploration

50 0 50 100
(meters)

8962-7

CRA EXPLORATION PTY LIMITED				
Charlotte Well Line 8000 E Smooth-model Inversion of CSAMT Data				
AUTHOR	DRAWN	DATE	SCALE	REPORT
		14/11/94	1:5000	21098
REF. SH 53 - 15		FILE		Plan No. SAa 6355

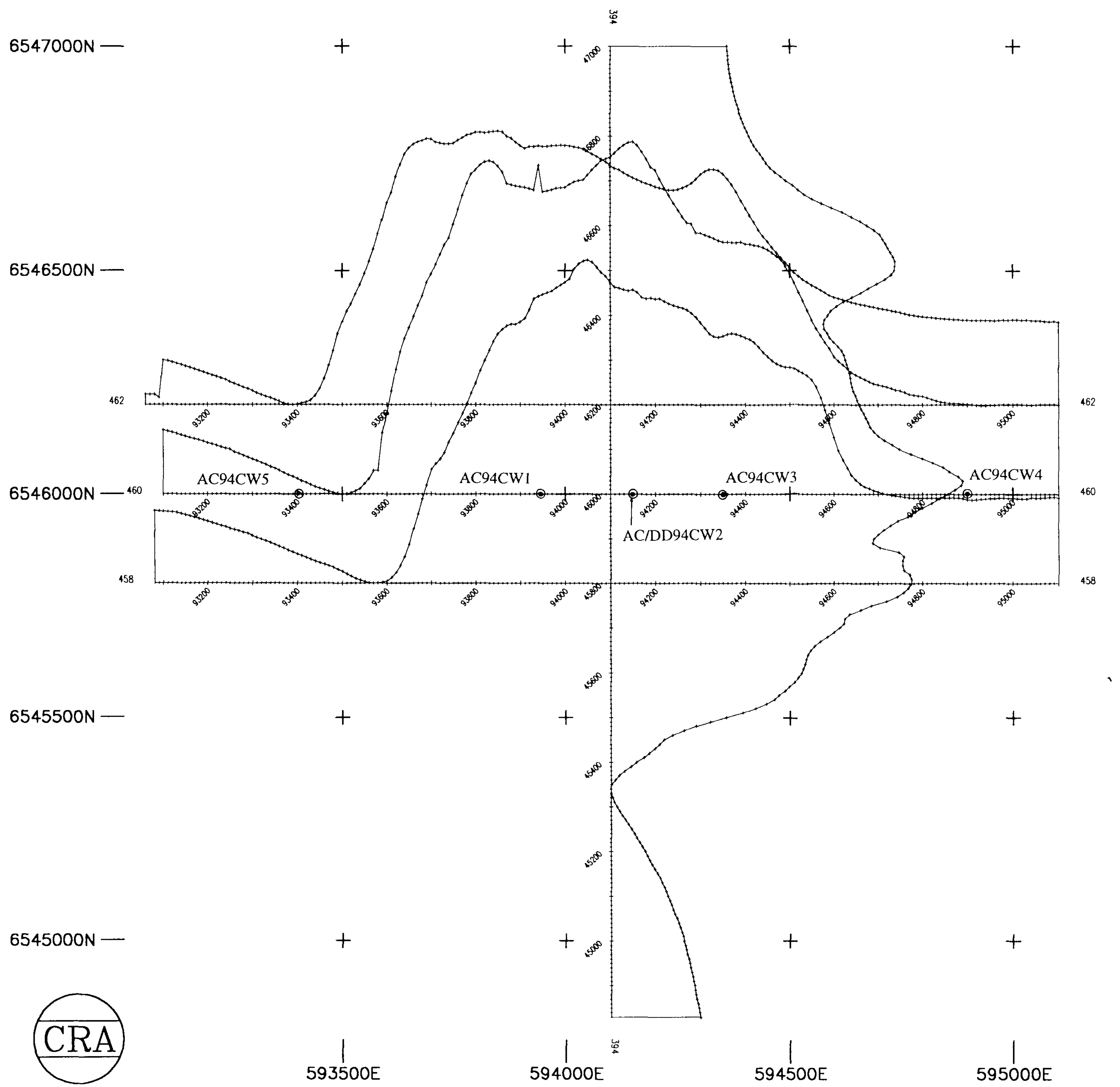


8962-8

CRA EXPLORATION PTY. LIMITED.

CHARLOTTE WELL EL 1974 — S. A.
CROSS-SECTION 8000mE

Ref. : GAIRDNER SH 53-15	
Scale 1 : 2500	Drawn R.D.D.
Author D. W.W.	Report No. 21098
Date Jan. 1995	Plan No. SAa 6358



SPECIFICATIONS

Data:
Data collected at 10 m stations using Scintrex MP3 magnetometers.
Recorded August 1994.
Diurnal correction applied.

PROFILES:
Vertical Scale - 1000 nT/cm

Scale 1:10000

250 0 250
(metres)

CRA EXPLORATION PTY LIMITED	
CHARLOTTE WELL EL 1974	
PINARY DAM PROSPECT	
GROUND MAGNETIC PROFILES	
REF. GAIRDNER SH 53-15	
SCALE 1:10,000	DRAWN MGB
AUTHOR MGB	REPORT 21098
DATE Sep 95	PLAN No SAa 6491

8962-9

APPENDIX I

Diamond Indicator Sampling

SAMPLE NO	DRILLHOLE	EASTING	NORTHING	100 SHEET	DPO	REPORT	RESULT
3943308	RC/DD94CW6	608875	6547750	LAKE HART	54363	O13/95	Negative
3943309	RC/DD94CW6	608875	6547750	LAKE HART	54363	O13/95	Negative
3943310	RC94CW7	608800	6547875	LAKE HART	54363	O14/95	Negative
3943311	RC94CW7	608800	6547875	LAKE HART	54363	O15/95	Negative
3943312	RC94CW9	609475	6546100	LAKE HART	54363	O13/95	1 Ch
3943313	RC94CW9	609475	6546100	LAKE HART	54363	O14/95	Negative
3943314	RC94CW10	608275	6549600	LAKE HART	54363	O14/95	4 Ch
3943315	RC94CW10	608275	6549600	LAKE HART	54363	O13/95	Negative

APPENDIX II

Gravity Data Files, Lines 7700E and 8000E

/ NAM Gravity Line 8000E, Charlotte Well, 08.09.94									
/									
/ GRAVITY READINGS WERE CORRECTED FOR METER DRIFT									
/ GRAVITY READINGS WERE CORRECTED FOR LATITUDE USING ISOGAL65									
/ FREE AIR CORRECTION WAS APPLIED USING 2gh/R									
/ BOUGER CORRECTION WAS APPLIED USING DENSITY OF 2.3grams/cc									
/ PAR FREE ; .3086									
/ PAR ZONE ; 53.									
/ PAR GMT ; 10.									
/ PAR BASE STATION ; A : 608086. 6550652. 980000.									
/ PAR METER ; : 1.055									
/ TYP LINE									
/ FMT (A1,1X,F9.4,1X,F8.3,1X,F7.3,1X,F8.1,1X,F9.1,5(1X,I2.2),2(1X,F10.3))									
/ EOH									
/ Easting Northing Station Raw_G Elevation Bouguer_G Time Date Drift_Corr Base									
Line 8000									
/ 608086	6550652	20000	2939.422	152.208		7:35	08.09.94	980000	A
608086.1	6550652	20000	2939.422	152.208	601.8	7:36	08.09.94	980000	
608100.3	6550553	19900	2939.591	152.231	601.917	7:41	08.09.94	980000.2	
608114.5	6550454	19800	2940.091	151.272	602.176	7:47	08.09.94	980000.7	
608128.8	6550355	19700	2940.273	151.301	602.308	7:52	08.09.94	980000.9	
608143.1	6550256	19600	2940.468	151.822	602.559	7:59	08.09.94	980001.1	
608157.3	6550157	19500	2941.136	150.139	602.842	8:05	08.09.94	980001.8	
608171.5	6550058	19400	2941.662	148.961	603.083	8:11	08.09.94	980002.4	
608185.8	6549959	19300	2941.958	148.763	603.287	8:16	08.09.94	980002.7	
608200.1	6549860	19200	2942.225	148.958	603.544	8:22	08.09.94	980003	
608230.2	6549765	19100	2942.372	149.552	603.761	8:27	08.09.94	980003.2	
608260.4	6549669	19000	2942.729	149.189	603.997	8:33	08.09.94	980003.5	
608290.6	6549574	18900	2943.047	148.881	604.204	8:38	08.09.94	980003.9	
608320.8	6549479	18800	2943.512	148.006	604.449	8:45	08.09.94	980004.4	
608343.1	6549384	18700	2943.784	148.306	604.737	8:52	08.09.94	980004.7	
608381.2	6549288	18600	2943.988	148.577	604.946	8:58	08.09.94	980004.9	
608411.4	6549193	18500	2944.145	148.666	605.067	9:03	08.09.94	980005.1	
608441.6	6549098	18400	2944.328	148.443	605.15	9:09	08.09.94	980005.3	
/ 608086	6550652	20000	2939.331	152.208		9:21	08.09.94	980000	A
608471.8	6549002	18300	2944.636	147.683	605.274	9:32	08.09.94	980005.6	
608502.1	6548907	18200	2944.656	147.795	605.26	9:38	08.09.94	980005.6	
608532.2	6548812	18100	2944.644	148.011	605.232	9:43	08.09.94	980005.6	
608562.4	6548716	18000	2944.708	147.566	605.146	9:49	08.09.94	980005.7	
608592.6	6548621	17900	2944.741	147.083	605.02	9:55	08.09.94	980005.8	
608637.9	6548526	17800	2944.878	146.618	605.008	10:01	08.09.94	980005.9	
608668.1	6548431	17700	2945.028	146.058	604.989	10:07	08.09.94	980006.1	
608698.3	6548335	17600	2945.289	145.301	605.046	10:13	08.09.94	980006.4	
608728.5	6548240	17500	2945.495	144.691	605.075	10:19	08.09.94	980006.6	
608758.7	6548145	17400	2945.572	144.552	605.067	10:24	08.09.94	980006.7	
608788.9	6548049	17300	2945.773	143.753	605.051	10:30	08.09.94	980006.9	
608819.1	6547954	17200	2946.022	142.732	605.041	10:37	08.09.94	980007.2	
608849.3	6547859	17100	2946.416	141.529	605.142	10:42	08.09.94	980007.6	
608879.5	6547763	17000	2946.572	141.233	605.185	10:48	08.09.94	980007.8	
/ 608086	6550652	20000	2939.187	152.208		10:58	08.09.94	980000	A
608909.7	6547668	16900	2946.643	140.907	605.161	11:09	08.09.94	980007.9	
608939.9	6547573	16800	2946.505	142.101	605.21	11:14	08.09.94	980007.8	
608987.1	6547478	16700	2946.452	142.394	605.162	11:21	08.09.94	980007.7	
609019.1	6547384	16600	2946.532	142.008	605.108	11:26	08.09.94	980007.8	

609051.1	6547291	16500	2946.558	141.987	605.077	11:32	08.09.94	980007.8	
609083.1	6547198	16400	2946.682	141.586	605.067	11:37	08.09.94	980008	
609115.1	6547105	16300	2946.803	141.227	605.064	11:43	08.09.94	980008.1	
609147.1	6547012	16200	2946.907	140.811	605.032	11:49	08.09.94	980008.3	
609179.2	6546919	16100	2947.049	140.379	605.034	11:54	08.09.94	980008.4	
609211.2	6546826	16000	2947.149	139.803	604.966	12:01	08.09.94	980008.5	
609243.2	6546733	15900	2947.217	139.811	604.983	12:06	08.09.94	980008.6	
609275.2	6546640	15800	2947.378	139.312	604.995	12:13	08.09.94	980008.8	
609307.3	6546547	15700	2947.431	139.176	604.966	12:18	08.09.94	980008.9	
609339.3	6546454	15600	2947.447	139.192	604.93	12:23	08.09.94	980008.9	
609371.3	6546361	15500	2947.458	139.079	604.864	12:29	08.09.94	980008.9	
609403.3	6546268	15400	2947.196	140.243	604.776	12:34	08.09.94	980008.6	
609435.4	6546175	15300	2947.163	137.889	604.193	12:41	08.09.94	980008.6	
609467.4	6546082	15200	2947.336	137.321	604.199	12:46	08.09.94	980008.8	
/ 608086	6550652	20000	2938.953	152.208		12:57	08.09.94	980000	A
/ 608086	6550652	20000	2938.932	152.208		13:13	08.09.94	980000	A
609499.4	6545989	15100	2947.343	135.871	603.879	13:18	08.09.94	980008.9	
609531.4	6545896	15000	2947.032	136.885	603.698	13:27	08.09.94	980008.5	
609563.5	6545803	14900	2946.718	135.798	603.07	13:33	08.09.94	980008.2	
609595.5	6545710	14800	2946.191	137.978	602.908	13:38	08.09.94	980007.7	
609627.5	6545617	14700	2946.115	138.035	602.773	13:43	08.09.94	980007.6	
609659.5	6545524	14600	2945.848	139.161	602.662	13:49	08.09.94	980007.3	
609691.5	6545431	14500	2946.671	135.801	602.754	13:54	08.09.94	980008.2	
609723.6	6545338	14400	2947.378	132.741	602.788	13:59	08.09.94	980008.9	
609755.6	6545245	14300	2947.638	131.464	602.726	14:03	08.09.94	980009.2	
609787.6	6545152	14200	2947.725	132.787	603.03	14:07	08.09.94	980009.3	
609819.6	6545059	14100	2948.122	129.814	602.755	14:19	08.09.94	980009.7	
609851.7	6544966	14000	2948.416	130.612	603.166	14:24	08.09.94	980010	
609883.7	6544873	13900	2948.645	129.293	603.063	14:30	08.09.94	980010.2	
609915.7	6544779	13800	2948.966	130.081	603.5	14:35	08.09.94	980010.6	
609947.7	6544686	13700	2949.093	129.632	603.473	14:42	08.09.94	980010.7	
609979.8	6544593	13600	2949.071	129.202	603.292	14:48	08.09.94	980010.7	
610011.8	6544500	13500	2949.243	128.463	603.251	14:53	08.09.94	980010.9	
610043.8	6544407	13400	2949.185	128.312	603.091	15:00	08.09.94	980010.8	
610075.8	6544314	13300	2949.218	128.052	603.004	15:07	08.09.94	980010.9	
/ 608086	6550652	20000	2938.932	152.208		15:23	08.09.94	980000	A
610107.9	6544221	13200	2949.164	129.255	603.129	15:33	08.09.94	980010.8	
610139.9	6544128	13100	2949.323	129.016	603.176	15:39	08.09.94	980011	
610171.9	6544035	13000	2948.828	131.553	603.12	15:45	08.09.94	980010.4	
610203.9	6543942	12900	2948.481	133.376	603.068	15:51	08.09.94	980010.1	
610236.1	6543849	12800	2948.415	133.873	603.034	15:57	08.09.94	980010	
610268.1	6543756	12700	2947.985	136.099	602.979	16:04	08.09.94	980009.5	
610300.1	6543663	12600	2947.475	138.581	602.894	16:11	08.09.94	980009	
610340.1	6543570	12500	2948.201	135.822	603.007	16:18	08.09.94	980009.8	
610380.1	6543485	12400	2948.023	136.459	602.891	16:23	08.09.94	980009.6	
610392.1	6543400	12300	2947.355	139.731	602.812	16:28	08.09.94	980008.9	
610404.2	6543299	12200	2947.493	139.052	602.739	16:33	08.09.94	980009	
610416.3	6543198	12100	2948.073	136.532	602.744	16:39	08.09.94	980009.6	
610428.4	6543097	12000	2948.302	135.531	602.698	16:45	08.09.94	980009.8	
610440.5	6542996	11900	2948.743	133.717	602.704	16:53	08.09.94	980010.3	
610452.6	6542895	11800	2948.802	133.371	602.617	16:59	08.09.94	980010.4	
610464.7	6542794	11700	2948.893	133.177	602.596	17:05	08.09.94	980010.5	
/ 608086	6550652	20000	2938.989	152.208		17:16	08.09.94	980000	A
/ 608086	6550652	20000	2939.007	152.208		8:33	09.09.94	980000	A

610464.7	6542693	11600	2948.803	133.235	602.422	8:38	09.09.94	980010.3	
610476.8	6542592	11500	2948.664	134.017	602.373	8:43	09.09.94	980010.2	
610488.9	6542491	11400	2948.771	133.654	602.344	8:49	09.09.94	980010.3	
610501.1	6542390	11300	2949.234	131.746	602.363	8:54	09.09.94	980010.8	
610513.2	6542289	11200	2949.161	132.163	602.306	8:58	09.09.94	980010.7	
610525.3	6542188	11100	2949.054	132.874	602.278	9:04	09.09.94	980010.6	
610537.4	6542086	11000	2948.472	135.656	602.183	9:09	09.09.94	980010	
610549.5	6541985	10900	2948.734	134.816	602.217	9:15	09.09.94	980010.3	
610561.6	6541884	10800	2949.778	130.573	602.358	9:22	09.09.94	980011.4	
610573.7	6541783	10700	2949.702	131.219	602.348	9:27	09.09.94	980011.3	
610585.8	6541682	10600	2949.879	130.548	602.326	9:32	09.09.94	980011.5	
610597.9	6541581	10500	2950.151	129.717	602.372	9:38	09.09.94	980011.8	
610610.1	6541480	10400	2950.431	128.451	602.335	9:44	09.09.94	980012.1	
610620.2	6541379	10300	2950.916	126.216	602.309	9:50	09.09.94	980012.7	
610630.4	6541278	10200	2951.583	123.798	602.437	9:56	09.09.94	980013.4	
610640.5	6541177	10100	2951.352	125.071	602.396	10:02	09.09.94	980013.1	
610650.7	6541075	10000	2951.401	125.451	602.461	10:08	09.09.94	980013.2	
610660.9	6540974	9900	2951.344	125.768	602.404	10:15	09.09.94	980013.1	
610671.1	6540873	9800	2951.747	124.249	602.444	10:22	09.09.94	980013.6	
610681.2	6540772	9700	2952.088	122.71	602.412	10:27	09.09.94	980013.9	
/ 608086	6550652	20000	2938.868	152.208		10:37	09.09.94	980000	A
610691.4	6540671	9600	2952.701	119.915	602.425	10:49	09.09.94	980014.6	
610701.6	6540569	9500	2952.701	120.027	602.388	10:59	09.09.94	980014.6	
610711.8	6540468	9400	2951.265	126.929	602.265	11:05	09.09.94	980013.1	
610721.9	6540367	9300	2950.579	130.849	602.306	11:12	09.09.94	980012.4	
610732.1	6540266	9200	2950.765	130.746	602.414	11:17	09.09.94	980012.6	
610742.3	6540165	9100	2952.576	123.308	602.692	11:24	09.09.94	980014.5	
610752.5	6540064	9000	2952.605	123.978	602.799	11:30	09.09.94	980014.6	
610762.6	6539962	8900	2952.383	125.579	602.839	11:37	09.09.94	980014.3	
610772.8	6539861	8800	2952.735	124.828	602.986	11:42	09.09.94	980014.7	
610783.1	6539760	8700	2953.333	122.905	603.147	11:48	09.09.94	980015.4	
610793.2	6539659	8600	2953.909	120.819	603.252	11:56	09.09.94	980016	
610803.4	6539558	8500	2953.733	122.311	603.314	12:00	09.09.94	980015.8	
610813.5	6539456	8400	2953.643	123.537	603.415	12:08	09.09.94	980015.7	
610823.7	6539355	8300	2953.708	124.168	603.551	12:13	09.09.94	980015.8	
610833.9	6539254	8200	2954.308	122.321	603.73	12:19	09.09.94	980016.4	
/ 608086	6550652	20000	2938.723	152.208		12:29	09.09.94	980000	A
610844.1	6539153	8100	2955.133	119.249	603.904	12:49	09.09.94	980017.3	
610854.2	6539052	8000	2955.331	119.379	604.071	12:55	09.09.94	980017.5	
610864.4	6538951	7900	2953.029	129.416	603.691	13:01	09.09.94	980015.1	
610874.6	6538849	7800	2954.961	122.029	604.101	13:07	09.09.94	980017.2	
610884.8	6538748	7700	2953.913	127.088	603.994	13:14	09.09.94	980016.1	
610894.9	6538647	7600	2953.879	127.787	604.037	13:21	09.09.94	980016	
610905.1	6538546	7500	2954.227	126.416	604.045	13:27	09.09.94	980016.4	
610915.3	6538445	7400	2952.835	132.903	603.876	13:33	09.09.94	980014.9	
610925.5	6538343	7300	2952.771	133.735	603.915	13:40	09.09.94	980014.9	
610935.6	6538242	7200	2953.429	131.286	604.023	13:46	09.09.94	980015.6	
610945.8	6538141	7100	2953.955	128.857	603.996	13:52	09.09.94	980016.1	
610956.1	6538040	7000	2953.884	129.466	603.982	14:02	09.09.94	980016	
/ 608086	6550652	20000	2938.661	152.208		14:24	09.09.94	980000	A

000031

/ NAM LN7700E, CHARLOTTE WELL - GRAVITY SURVEY									
/ ;									
/ ; GRAVITY READINGS WERE CORRECTED FOR METER DRIFT									
/ ; GRAVITY READINGS WERE CORRECTED FOR LATITUDE USING ISOGAL65									
/ ; FREE AIR CORRECTION WAS APPLIED USING 2gh/R									
/ ; BOUGER CORRECTION WAS APPLIED USING DENSITY OF 2.3grams/cc									
/ PAR FREE ; .3086									
/ PAR ZONE ; 53.									
/ PAR GMT ; 10.									
/ PAR BASE STATION ; A : 607700. 6547500. 980000.									
/ PAR METER ; : 1.055									
/ TYP LINE									
/ FMT (A1,1X,F9.4,1X,F8.3,1X,F7.3,1X,F8.1,1X,F9.1,5(1X,I2.2),2(1X,F10.3))									
/ EOH									
/ Easting Northing Station Raw_G Elevation Bouguer_G Time Date Drift_Corr Base									
Line 7700									
607700	6547500	47500	2946.265	144.009		14:59	09.09.94	980000	A
607700	6547500	47500	2946.265	144.009	597.797	14:59	09.09.94	980000	
607700	6547600	47600	2946.012	144.768	597.759	15:05	09.09.94	979999.7	
607700	6547700	47700	2945.837	145.601	597.82	15:10	09.09.94	979999.5	
607700	6547800	47800	2945.634	146.313	597.824	15:17	09.09.94	979999.3	
607700	6547900	47900	2945.342	147.118	597.756	15:22	09.09.94	979999	
607700	6548000	48000	2945.219	147.761	597.83	15:29	09.09.94	979998.9	
607700	6548100	48100	2944.937	148.522	597.762	15:35	09.09.94	979998.6	
607700	6548200	48200	2944.767	149.306	597.817	15:41	09.09.94	979998.4	
607700	6548300	48300	2944.776	149.753	597.99	15:46	09.09.94	979998.4	
607700	6548400	48400	2944.757	149.961	598.083	15:52	09.09.94	979998.4	
607700	6548500	48500	2944.865	149.877	598.248	15:58	09.09.94	979998.5	
607700	6548600	48600	2944.873	150.012	598.354	16:04	09.09.94	979998.5	
607700	6548700	48700	2944.793	150.178	598.374	16:10	09.09.94	979998.4	
607700	6548800	48800	2944.701	150.015	598.311	16:16	09.09.94	979998.3	
607700	6548900	48900	2944.541	150.052	598.22	16:21	09.09.94	979998.1	
607700	6549000	49000	2944.421	149.715	598.091	16:26	09.09.94	979998	
607700	6549100	49100	2944.327	149.549	598.026	16:32	09.09.94	979997.9	
607700	6549200	49200	2943.953	150.133	597.823	16:38	09.09.94	979997.5	
607700	6549300	49300	2943.742	150.131	597.67	16:43	09.09.94	979997.3	
607700	6549400	49400	2943.377	150.601	597.452	16:50	09.09.94	979996.9	
607700	6549500	49500	2943.026	150.816	597.195	16:58	09.09.94	979996.5	
607700	6549600	49600	2942.628	151.111	596.907	17:04	09.09.94	979996.1	
/ 607700	6547500	47500	2946.334	144.009		17:21	09.09.94	980000	A
607700	6549700	49700	2942.101	151.775	596.535	17:35	09.09.94	979995.5	
607700	6549800	49800	2941.506	152.458	596.112	17:43	09.09.94	979994.9	
607700	6549900	49900	2940.828	153.444	595.67	17:48	09.09.94	979994.2	
607700	6550000	50000	2940.458	153.478	595.351	17:53	09.09.94	979993.8	
607700	6550100	50100	2939.951	154.216	595.036	17:59	09.09.94	979993.2	
607700	6550200	50200	2939.558	154.757	594.798	18:06	09.09.94	979992.8	
607700	6550300	50300	2938.431	154.031	593.518	18:13	09.09.94	979991.6	
/ 608086	6550652	20000	2938.971	152.208	593.948	18:21	09.09.94	979992.1	
/ 607700	6547500	47500	2946.429	144.009		18:33	09.09.94	980000	A
/ EOD									
/ END									

APPENDIX III

Instrumentation, Recording Procedures and Data Quality,

CSAMT and TEM Survey, Charlotte Well

(Zonge Engineering & Research Organization)

300033.

SELECTED EXTRACTS FROM:

CSAMT SURVEY REPORT

Charlotte Well/Kalabity Prospect

for

CRA Exploration Pty. Limited

Issue Date: 19 April, 1995

Zonge Engineering & Research Organization
240 Glen Osmond Road, Fullarton, South Australia 5063
Phone (08) 338-1559 Fax (08) 379-6753

Executive Summary

In December of 1994 and January of 1995, at the request of Mike Barlow of CRA Exploration, Zonge Engineering and Research Organization performed controlled-source audio-frequency magnetotelluric (CSAMT) surveys on two separate prospects in South Australia. The first survey was on the Charlotte Well prospect, located near Glendambo in the mid-north of the state. The second survey was situated on the Kalabity Station, near the town of Olary, in the state's eastern pastoral region.

One long CSAMT line was run over the Charlotte Well area, with the majority (7.1 kilometres) surveyed using 50 metre station spacing. The remainder of the line (1.9 kilometres) was surveyed using 25 metre station spacings. The second phase of the survey, at Kalabity, consisted of six lines totalling 40 kilometres, most of which was read using 50 metre station spacing. 1.5 kilometres were surveyed using 25 metre station spacings. On both surveys, follow-up transient electromagnetic (TEM) soundings were made over areas of interest.

Project Logistics

Survey Overview

On the 27th of October 1994, a Zonge Engineering crew, led by Jeff Cashmore, began CSAMT production on the Charlotte Well prospect. Only one long line, line 8000E, was read using two transmitter locations (see figure 1 for line locations). This work was followed up by in-loop TEM soundings over several areas as an independent means of checking the CSAMT data (and the inversion process). This portion of the survey was completed on the 8th of November, 1994. The electric field was oriented approximately perpendicular to strike on line 8000E.

During the Charlotte Well phase of this survey four days of production were lost due to problems with the alternator. At least one full day of production (over the course of a few days) was also lost due to problems with the GDP-32. That unit finally failed completely, so production was switched to a three channel GDP-16 for two days until an eight channel GDP-16 could be shipped up. Production rates for the three channel receiver were quite comparable with those for the eight channel.

During the second phase of this survey 1.5 days of production were lost due to transmitter problems. One day of production was also lost due to inclement weather.

Field Procedures

For the CSAMT, electric-field components parallel to the transmitter antenna were usually measured at each station using 50 metre long grounded dipoles. Where better lateral resolution was needed, 25 metre grounded dipoles were used. In either case, magnetic field components perpendicular to the transmitter antenna were measured using an inductive coil.

For the data taken at 50 metre station spacings, four electric field and one magnetic field measurements were read simultaneously at each setup. At Charlotte Well, the 25 metre stations spacing data was taken using seven electric-field and one magnetic-field measurements simultaneously at each setup. Data were collected at discrete frequencies ranging from 8192 hertz down to frequencies ranging between 32 hertz and 1 hertz. The lower frequency was chosen so that data was taken at least two frequencies into the near-field. This was occasionally difficult to determine, as the location of the notch frequency was often quite variable along a line, and could be somewhat difficult to recognise, especially in the field.

For the TEM, the transient magnetic field was measured "in-loop", i.e. with the receiving antenna (antennae) set up at the centre of the transmitting loop. At Charlotte Well all TEM data were taken at 0.5 hertz, comparing data from both 100 metre and 200 metre transmitting loops. Only Hz data was taken, using the Zonge coil alone.

Field Instrumentation

A Zonge Engineering GGT-25 transmitter was used to generate source fields for the CSAMT and TEM surveys. Power was provided by a trailer-mounted, ZMG-30 motor generator, CSAMT transmitting bipoles were approximately 1.5 kilometres long, running parallel with the traverse line.

An eight channel GDP-32 was used at the beginning of this survey at Charlotte Well to record data. It became apparent that this receiver was not working properly, and needed to be replaced. These problems were not related to and did not affect the data quality. This unit was switched first with a three channel GDP-16 (being the only receiver available), and then with an eight channel GDP-16. The remainder of the data taken on this survey (during both stages) were taken using an eight channel GDP-16.

For the CSAMT, the electric field receiver dipoles were grounded by copper-sulfate porous pots. Three different models of coil were used to sense the magnetic field during the first phase of this work. These included the Saarloos coil, an EMI model BF-10 and a Zonge ANT-1B. During the second phase of the work only the Zonge ANT-1B was used.

For the TEM at Charlotte Well, the Zonge TEM/3 antenna was used to measure transient magnetic field.

The data were downloaded each evening from the receiver's solid-state memory to a portable computer. Final processing, modelling and plotting were completed in Zonge Engineering's Adelaide office.

Data Quality

This section is a general overview of the data quality for the work performed on this survey. Since each survey line used a different transmitting bipole, data quality varied greatly. More detailed discussion of data quality for each line will be found in the Data Presentation section of this report.

Following standard Zonge Engineering field procedures, the receiver operator repeated each measurement at least twice. If variation in apparent resistivity was greater than 5 percent, additional repeats were recorded.

Overall, the data quality for these surveys was at least acceptable. Data were generally the worst in areas where the resistivities were extremely low, i.e. ranging in value from 1 to 10 ohm-metres. Signal levels are very low in this type of ground, thus making readings substantially noisier. It is also worth noting that, if for example, individual resistivity readings range from 1 to 1.5 ohm-metres (repeatable to about 50 percent), it may not be worthwhile for the operator to use a great deal of time taking enough data to get the variation percentage down to an apparently "acceptable" level.

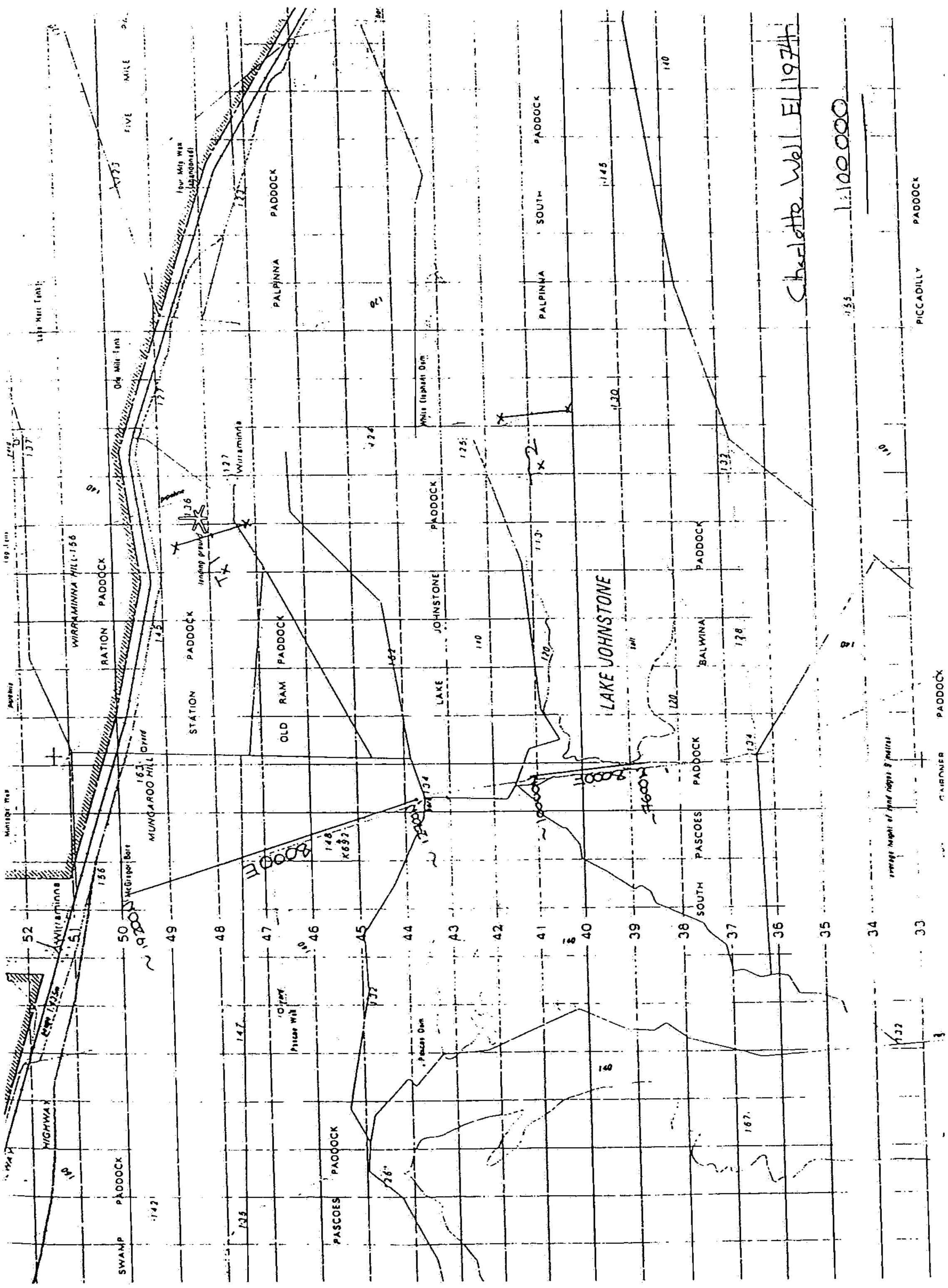


Figure 1: Location Map for Charlotte Well, line 8000E (from Michael Barlow).

APPENDIX IV

Raw Plot Files and Contractors Report, CSAMT, Line 8000E

(Zonge Engineering & Research Organization)

CHARLOTTE WELL/KALABITY CSAMT

Zonge Engineering - January, 1995

Charlotte Well

All eastings and northings used in this report are local coordinates.

The survey at Charlotte Well was comprised of one line, divided into two separate sections. Line 8000E was read in late October and November of 1994. The southern section of the line extended from 7600N to 10000N. The northern section of the line extended from 11600N to 19175N.

Line 8000E: CSAMT

All of the data for the southern section of the line, and for the northern section of the line from 11600N to 17250N were taken at 50 metre station spacings. From 17275N to 19175N, all of the data were taken at 25 metre station spacings. Most of the data on this line were taken down to 4 hertz, although from 17800N to the northern end of the line at 19175N, data were taken down to 1 hertz.

Two transmitter locations were used for this line. The first, used for the southern part of the line, was centred approximately 7.5 kilometres east of the line at 15500E, 88000N. The second transmitter location, used for the northern part of the line, was also 7.5 kilometres east of the line, centred at 15500E, 16000N. Both transmitter antennas were approximately 1.5 kilometres long.

The northern transmitting bipole produced currents of 20 to 24 amperes for frequencies from 1 hertz to 256 hertz. At higher frequencies, the transmitter current was limited by the intrinsic impedance of the transmitter antenna wire, dropping gradually to between 1 and 3 amperes at 8192 hertz. The southern transmitting bipole produced 10 to 12 amperes for frequencies from 4 hertz to 256 hertz. Currents then dropped gradually to between 1.5 and 2 amperes at 8192 hertz.

The near-field notch came in fairly consistently and strongly on this data set at around 16 hertz. Since most of the data was taken to 4 hertz, the full frequency range was inverted.

Resistivities along this line were generally very low, with values that ranged from one to five ohm-metres for most of the southern section of the line, and high values only around 20 ohm-metres near the northern end of the line. These low resistivities, combined with the low currents produced by the southern transmitting bipole combined to make the data from the southern section of the line fairly noisy, as measured by variation in the repeatability of the resistivities. Variations between apparent resistivity repeats were generally on the order of 5 to 30 percent, with any given frequency varying up to 50 to 100 percent. The high frequency data were slightly noisier due to weaker signal strength, although this was not entirely consistent either. 256 hertz and 512 hertz were both noisier than most. These two frequencies are very close to the fifth and ninth harmonics of standard 50 hertz power line signal, and are therefore often noisier than the rest.

The quality of the phase data followed a similar pattern to the resistivity data, being generally fairly noisy, with the noisiest data usually at the highest frequencies (as well as at 256 hertz and 512 hertz).

Data quality, from the northern section of this line are generally better than from the southern section, especially for the 50 metre data (taken using the Saarloos coil). Resistivity variations were generally better than 15 percent, with much of the data better than 5 percent. As expected, variation was worse for the higher frequency data, with variation up to 50 to 100 percent for the 8192 hertz data. As with the southern section of the line, it appears that this data was somewhat affected by power line noise. For this part of the line, 256 hertz, 128 hertz and 64 hertz were slightly noisier than the rest.

Again, the noise in the phase data followed the same pattern as the resistivity data, with the noisiest data at the highest frequencies, and at the frequencies affected by power line noise.

While the 25 metre data at the far north end of the line is only slightly more variable than the other data from the rest of the line, there is another problem with the data quality from this area. When examined closely, the resistivity and phases on the black-and-white pseudosection for this part of the line can be seen to group into units of seven. This grouping is also apparent on the colour inversion section for this part of the line. This data was taken reading seven electric field readings (dipoles) and one magnetic-field reading (magnetic coil) per setup. The grouping pattern suggests that the problem is not in the electric field measurements, but is most likely in the magnetic field measurement, as this is the one reading that is common to all seven resistivity calculation. It appears that the EM1 coil was reading inconsistently from setup to setup, while still maintaining some measure of repeatability within a setup. Historically this coil has been one of our best and most accurate, and we are uncertain for the reason for this problem. While the data on this northernmost end of this line is not of the highest quality, I would suggest that it is still basically correct. Nevertheless, this is a problem that we will have to be more vigilant for in the future.

APPENDIX V

Technical Notes Accompanying CSAMT Smooth Model Inversion & Static-Corrected Profiles

(Zonge Engineering & Research Organization)

CHARLOTTE WELL/KALABITY CSAMT

Zonge Engineering - January, 1995

Technical Notes

Static Effects

Static-shift effects can be caused by both topography and near-surface inhomogeneities that are too small to be resolved by the 8192 hertz data. Small, near-surface features cause an offset in the sounding curves, but do not change curve shape. Static-shift corrections were calculated by an adaptive static-correction method that uses a non-parametric, robust-moving-average filter to estimate corrected resistivity values. The static-correction often removes residual powerline noise variation as well as topographic effects. The static-correction procedure also removes the effects of small-scale, near-surface geology. Both Cagniard apparent resistivity and static-corrected apparent resistivity pseudosections are useful for interpretation. Cagniard apparent resistivity data have more station-to-station variation, but near-surface geologic effects are preserved. Both topographic and near-surface geologic effects are suppressed in the static-corrected data, enhancing the interpretation of deeper and broader scale geology.

Smooth-Model Inversion

The static-corrected apparent resistivity and impedance phase data were modelled using a smooth-model inversion routine. The inversion algorithm is designed to produce an economical inversion of entire CSAMT data sets. Instead of predicting sharp boundaries between layers, which can be misleading, smooth-modelling produces a smoothly-varying resistivity cross-section, a cross-section that graphically represents the diffuse nature of electrical measurements.

The modelling program calculates a sequence of thin layers that provide a best fit to the data. Seven layers are used for each decade of frequency spanned by the sounding. The calculated resistivities of these layers are then plotted against layer depth to produce the final smooth-model cross-section. Smooth-model resistivity is much more representative of the ground response than apparent resistivity. Near-field and transition-zone data are explicitly modelled by the program. The result is substantially more reliable than the Bostick transformation or other far-field inversion schemes and the result is readily interpretable in geologic terms.

Line 8000 E
Charlotte Well
for
CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 08 Nov 94

CSAMT SURVEY DATA
CAGNIARD RESISTIVITY

values in ohm-meters

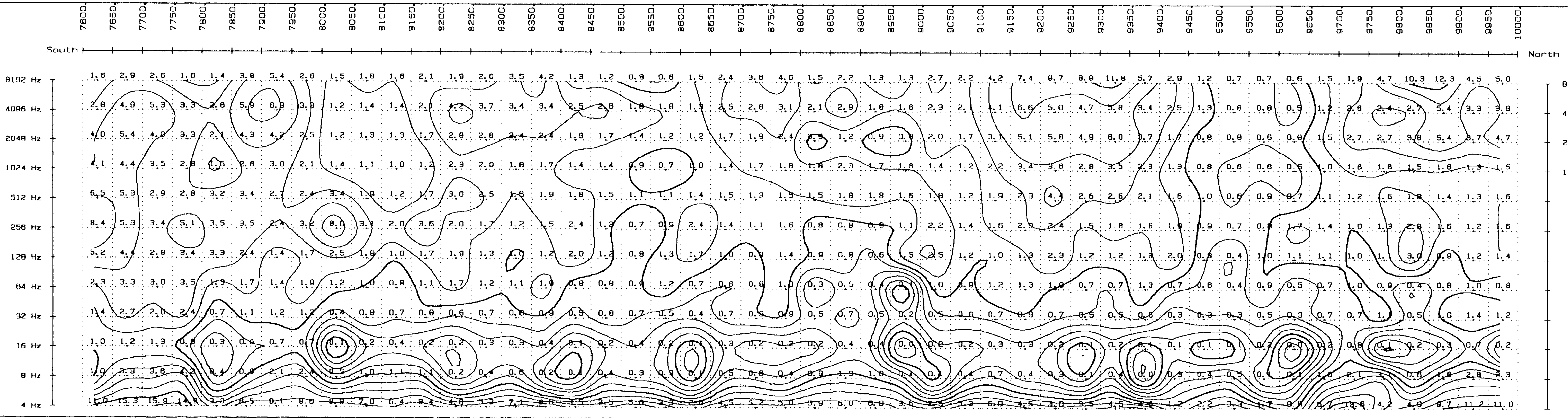
RECEIVER DATA
Length = 50 m Line = North
Spacing= 50 m Dipole= 0

Surveyed= 10/94

TRANSMITTER DATA
Length = 1500 m
Orient. = 0
Distance= 6500 m
Rx to Tx= 090

[Plot limits] and LOGARITHMIC CONTOURS
(Interval: 0.20)

[29.4m]	2.51
39.8m	3.98
63.1m	6.31
.100	10.0
.158	15.8
.251	[18.6]
.398	
.631	
1.00	
1.58	



8962-10

Line 8000 E
Charlotte Well
for
CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 08 Nov 94

CSAMT SURVEY DATA
STATIC-CORRECTED RES.

5-PT. TMA FILTER AT 4096 HZ
ZSTATIC v2.00a 11/08/94

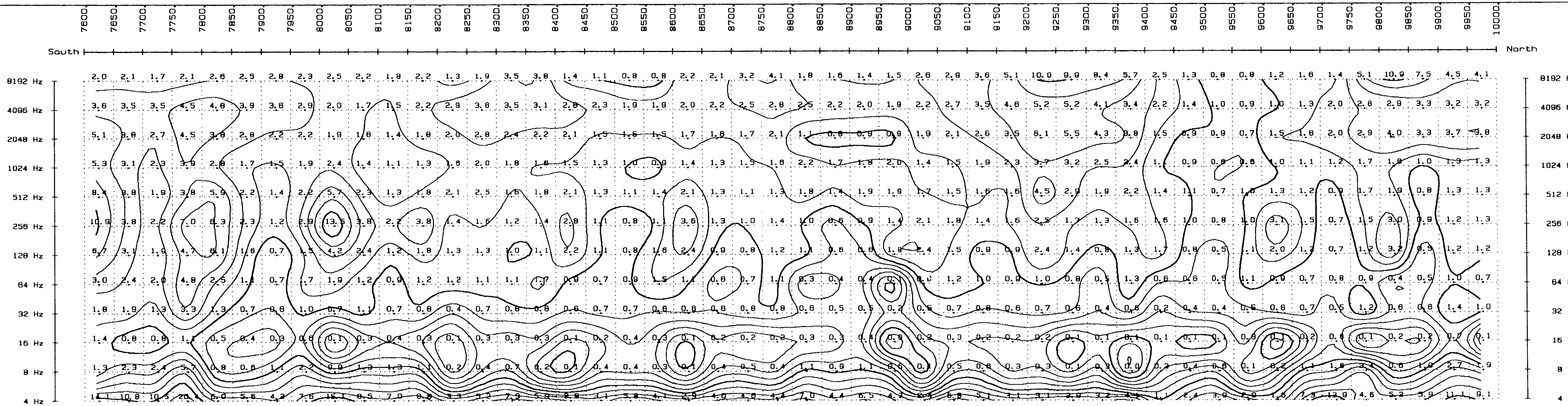
RECEIVER DATA
Length = 50 m Line = North
Spacing= 50 m Dipole= 0

Surveyed= 10/94

TRANSMITTER DATA
Length = 1500 m
Orient. = 0
Distance= 6500 m
Rx to Tx= 090

[Plot limits] and LOGARITHMIC CONTOURS
(Interval: 0.20)

[38.2m]	2.51
39.8m	3.98
63.1m	6.31
.100	10.0
.158	15.8
.251	[20.4]
.398	
.631	
1.00	
1.58	



8962-11

Line 8000 E
Charlotte Well
for
CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 08 Nov 94

CSAMT SURVEY DATA
IMPEDANCE PHASE

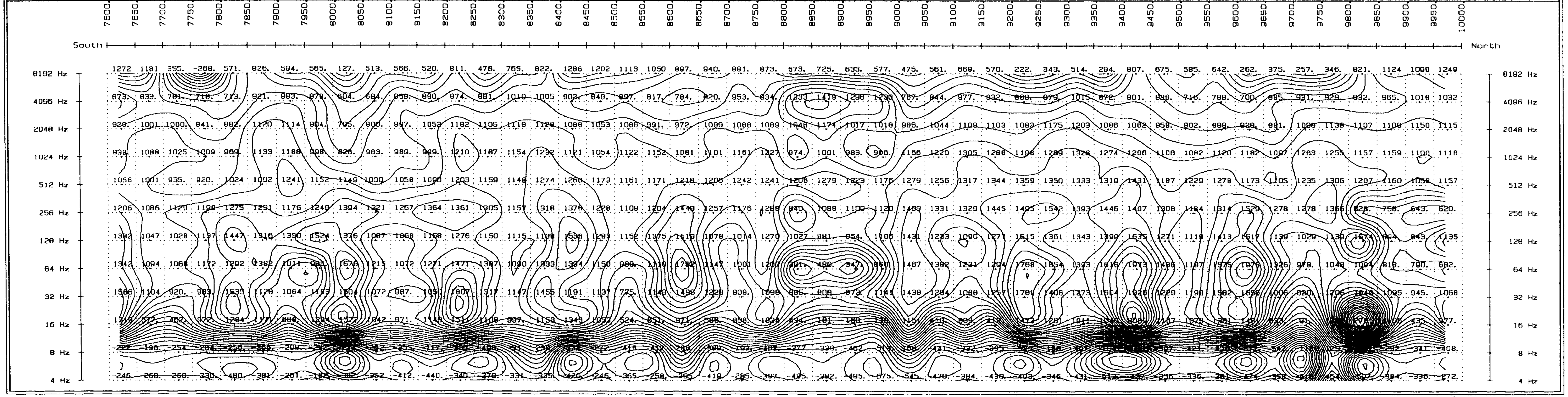
values in milliradians

RECEIVER DATA
Length = 50 m Line = North
Spacing= 50 m Dipole= 0
Surveyed= 10/94

TRANSMITTER DATA
Length = 1500 m
Orient. = 0
Distance= 6500 m
Rx to Tx= 090

[Plot limits] and ARITHMETIC CONTOURS
(Interval: 100.00)

[-1288]	-300.	700.	1700	2700
-1200	-200.	800.	1800	2800
-1100	-100.	900.	1900	[2843]
-1000	0.00	1000	2000	
-900.	100.	1100	2100	
-800.	200.	1200	2200	
-700.	300.	1300	2300	
-600.	400.	1400	2400	
-500.	500.	1500	2500	
-400.	600.	1600	2600	



8962-12

Line 8000 E
Charlotte Well
for
CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 08 Nov 94

CSAMT SURVEY DATA
CAGNIARD RESISTIVITY

values in ohm-meters

RECEIVER DATA			TRANSMITTER DATA
Length =	50 m	Line = North	Length = 1500 m
Spacing=	50 m	Dipole= 335	Orient. = 335
			Distance= 6500 m
Surveyed= 10/94			Rx to Tx= 065

[Plot limits] and LOGARITHMIC CONTOURS
(Interval: 0.20)

[31.0m]	2.51
39.8m	3.98
63.1m	6.31
.100	10.0
.158	15.8
.251	25.1
.398	39.8
.631	[58.0]
1.00	
1.58	

8962-13

Line 8000 E
Charlotte Well
for
CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 08 Nov 94

CSAMT SURVEY DATA
IMPEDANCE PHASE

values in milliradians

RECEIVER DATA
Length = 50 m Line = North
Spacing= 50 m Dipole= 335

Surveyed= 10/94

TRANSMITTER DATA
Length = 1500 m
Orient. = 335
Distance= 6500 m
Rx to Tx= 065

[Plot limits] and ARITHMETIC CONTOURS
(Interval: 100.00)

[-825.]	100.	1100	[2053]
-800.	200.	1200	
-700.	300.	1300	
-600.	400.	1400	
-500.	500.	1500	
-400.	600.	1600	
-300.	700.	1700	
-200.	800.	1800	
-100.	900.	1900	
0.00	1000	2000	

8962-14

Line 8000 E
Charlotte Well
for
CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 08 Nov 94

CSAMT SURVEY DATA
STATIC-CORRECTED RES.

5-PT. TMA FILTER AT 4096 HZ
ZSTATIC v2.00a 11/08/94

RECEIVER DATA		TRANSMITTER DATA
Length = 50 m	Line = North	Length = 1500 m
Spacing= 50 m	Dipole= 335	Orient. = 335
		Distance= 6500 m
Surveyed= 10/94		Rx to Tx= 065

[Plot limits] and LOGARITHMIC CONTOURS
(Interval: 0.20)

[39.5m]	2.51
39.8m	3.98
63.1m	6.31
.100	10.0
.158	15.8
.251	25.1
.398	39.8
.631	[55.9]
1.00	
1.58	

8962-15

Line 8000 E
Charlotte Well
for
CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 08 Nov 94

CSAMT SURVEY DATA
IMPEDANCE PHASE

values in milliradians

RECEIVER DATA
Length = 50 m Line = North
Spacing= 50 m Dipole= 335

Surveyed= 10/94

TRANSMITTER DATA
Length = 1500 m
Orient. = 335
Distance= 6500 m
Rx to Tx= 065

[Plot limits] and ARITHMETIC CONTOURS
(Interval: 100.00)

[-2071]	-1100	-100.	900.	1900
-2000	-1000	0.00	1000	2000
-1900	-900.	100.	1100	2100
-1800	-800.	200.	1200	2200
-1700	-700.	300.	1300	2300
-1600	-600.	400.	1400	2400
-1500	-500.	500.	1500	2500
-1400	-400.	600.	1600	[2538]
-1300	-300.	700.	1700	
-1200	-200.	800.	1800	

8962-16

Line 8000 E
Charlotte Well
for
CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 08 Nov 94

CSAMT SURVEY DATA
CAGNIARD RESISTIVITY

values in ohm-meters

RECEIVER DATA		TRANSMITTER DATA
Length = 50 m	Line = North	Length = 1500 m
Spacing= 50 m	Dipole= 335	Orient. = 335
		Distance= 6500 m
Surveyed= 10/94		Rx to Tx= 085

[Plot limits] and LOGARITHMIC CONTOURS
(Interval: 0.20)

[32.2m]	2.51	251.
39.8m	3.98	[295.1]
63.1m	6.31	
.100	10.0	
.158	15.8	
.251	25.1	
.398	39.8	
.631	63.1	
1.00	100.	
1.58	158.	

8962-17

Line 8000 E
Charlotte Well
for
CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 08 Nov 94

CSAMT SURVEY DATA
STATIC-CORRECTED RES.

5-PT. TMA FILTER AT 4096 HZ
ZSTATIC v2.00a 11/08/94

RECEIVER DATA
Length = 50 m Line = North
Spacing= 50 m Dipole= 335

TRANSMITTER DATA
Length = 1500 m
Orient. = 335
Distance= 6500 m
Rx to Tx= 065

Surveyed= 10/94

[Plot limits] and LOGARITHMIC CONTOURS
(Interval: 0.20)

[25.4m]	2.51	251.
39.8m	3.98	[352.]
63.1m	6.31	
.100	10.0	
.158	15.8	
.251	25.1	
.398	39.8	
.631	63.1	
1.00	100.	
1.58	158.	

8962-18

Line 8000 E
Charlotte Well
for
CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 08 Nov 94

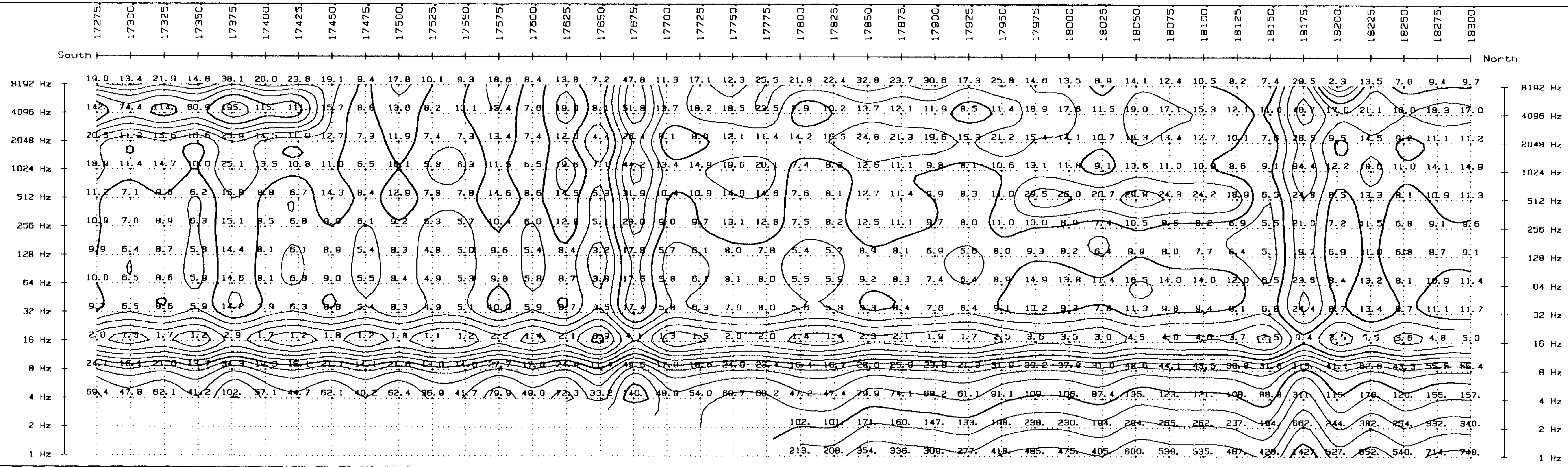
CSAMT SURVEY DATA
CAGNIARD RESISTIVITY

values in ohm-meters

RECEIVER DATA		TRANSMITTER DATA	
Length = 25 m	Line = North	Length = 1500 m	
Spacing= 25 m	Dipole= 335	Orient. = 335	
		Distance= 6500 m	
Surveyed= 10/94		Rx to Tx= 065	

[Plot limits] and LOGARITHMIC CONTOURS
(Interval: 0.20)

[.908]	63.1
1.00	100.
1.58	158.
2.51	251.
3.98	398.
6.31	631.
10.0	1000
15.8	[1427]
25.1	
39.8	



8962-19

Line 8000 E
Charlotte Well
for
CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 08 Nov 94

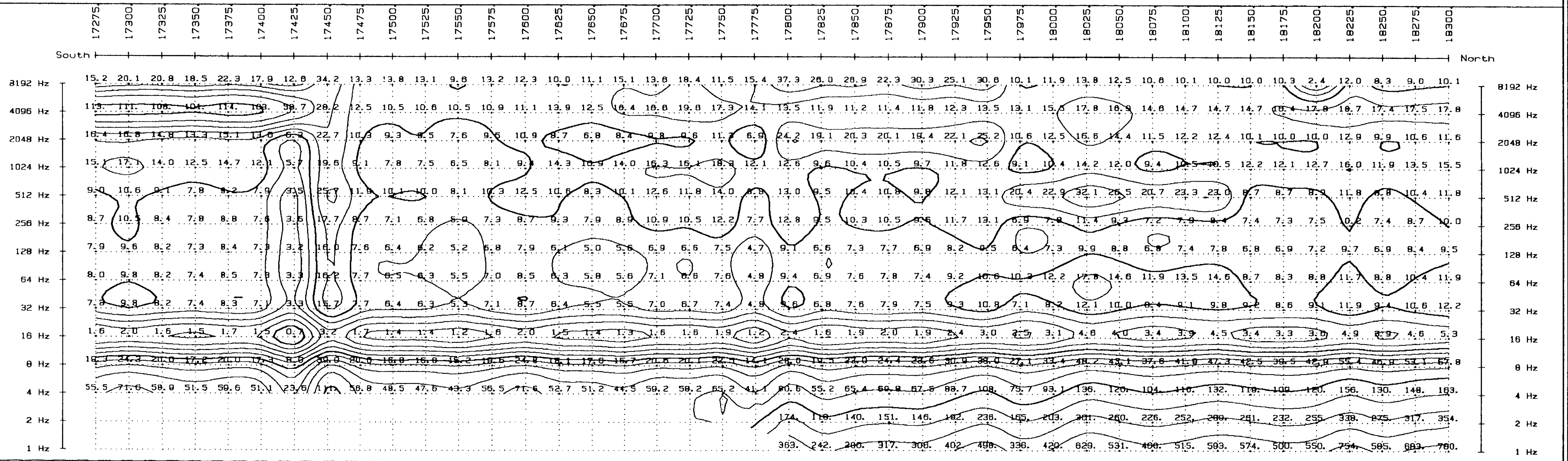
CSAMT SURVEY DATA
STATIC-CORRECTED RES.

5-PT. TMA FILTER AT 4096 HZ
ZSTATIC v2.00a 11/08/94

RECEIVER DATA		TRANSMITTER DATA	
Length = 25 m	Line = North	Length = 1500 m	
Spacing= 25 m	Dipole= 335	Orient. = 335	
		Distance= 6500 m	
Surveyed= 10/94		Rx to Tx= 085	

[Plot limits] and LOGARITHMIC CONTOURS
(Interval: 0.20)

[.652]	63.1
1.00	100.
1.58	158.
2.51	251.
3.98	398.
6.31	631.
10.0	[780.]
15.8	
25.1	
39.8	



8962-20

Line 8000 E
Charlotte Well
for
CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 08 Nov 94

CP

CSAMT SURVEY DATA
IMPEDANCE PHASE

values in milliradians

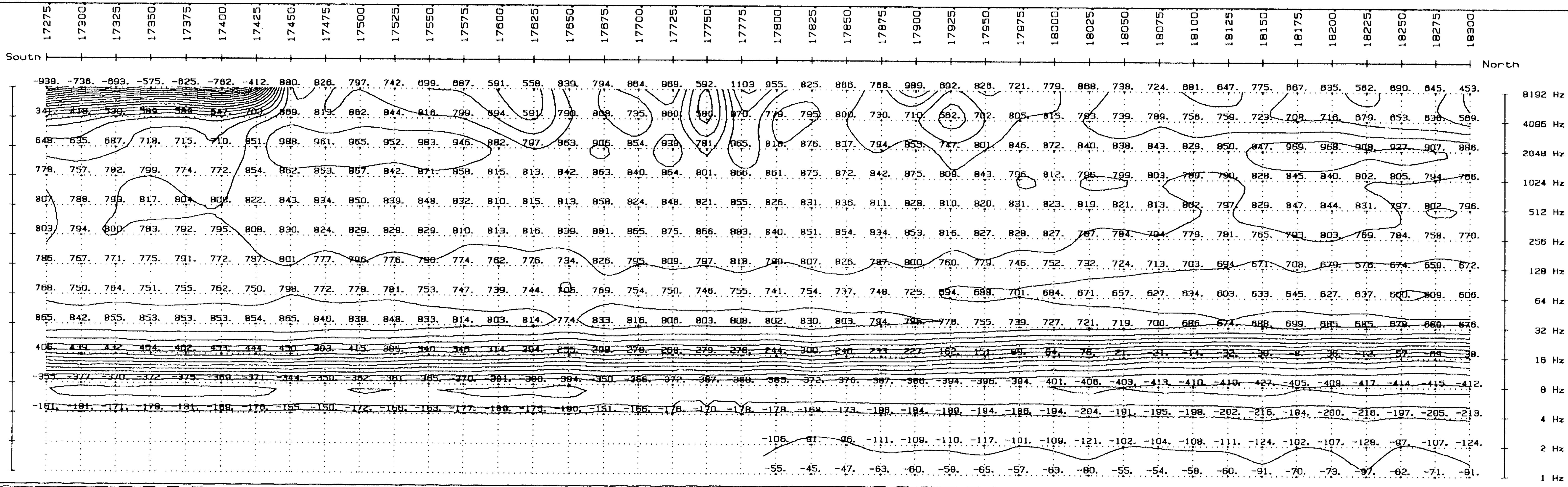
RECEIVER DATA
Length = 25 m Line = North
Spacing= 25 m Dipole= 335

Surveyed= 10/94

TRANSMITTER DATA
Length = 1500 m
Orient. = 335
Distance= 6500 m
Rx to Tx= 065

[Plot limits] and ARITHMETIC CONTOURS
(Interval: 100.00)

[-939.]	0.00	1000
-900.	100.	1100
-800.	200.	[1125]
-700.	300.	
-600.	400.	
-500.	500.	
-400.	600.	
-300.	700.	
-200.	800.	
-100.	900.	



8962-21

Line 8000 E
Charlotte Well
for
CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 08 Nov 94

CSAMT SURVEY DATA
CAGNIARD RESISTIVITY

values in ohm-meters

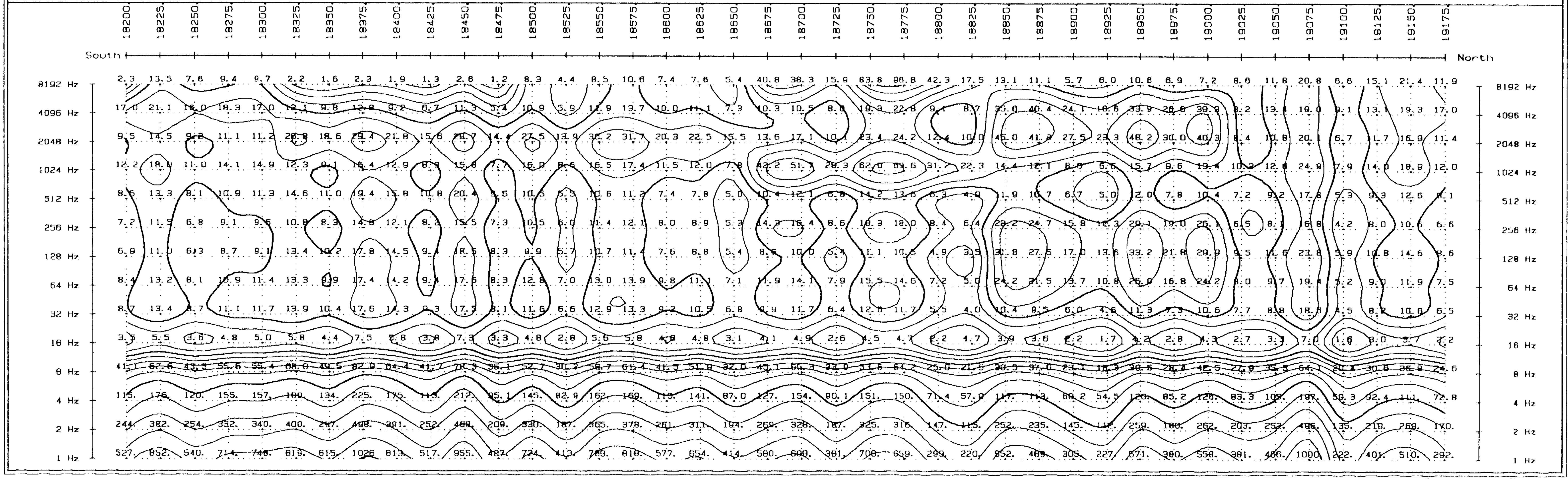
RECEIVER DATA
Length = 25 m Line = North
Spacing= 25 m Dipole= 335

Surveyed= 10/94

TRANSMITTER DATA
Length = 1500 m
Orient. = 335
Distance= 6500 m
Rx to Tx= 065

[Plot limits] and LOGARITHMIC CONTOURS
(Interval: 0.20)

[1.24]	100.
1.58	158.
2.51	251.
3.98	398.
6.31	631.
10.0	1000
15.8	[1046]
25.1	
39.8	
63.1	



8962-22

Line 8000 E
Charlotte Well
for
CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 08 Nov 94

CO

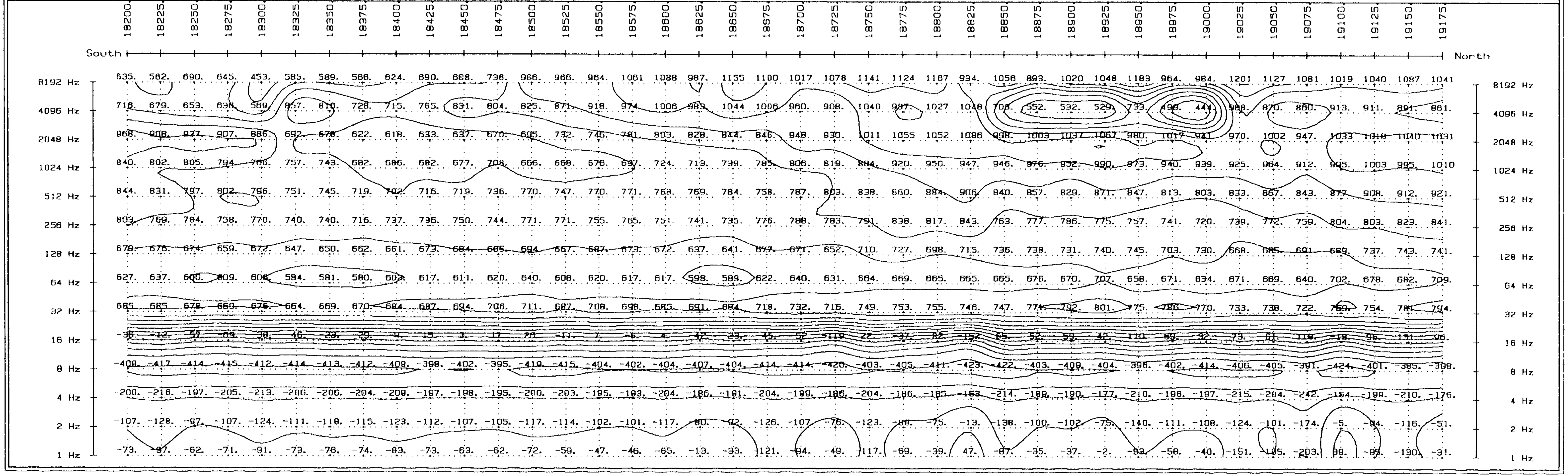
CSAMT SURVEY DATA
IMPEDANCE PHASE

values in milliradians

RECEIVER DATA		TRANSMITTER DATA
Length = 25 m	Line = North	Length = 1500 m
Spacing= 25 m	Dipole= 335	Orient. = 335
		Distance= 6500 m
Surveyed= 10/94		Rx to Tx= 065

[Plot limits] and ARITHMETIC CONTOURS
(Interval: 100.00)

[-425.]	500.
-400.	600.
-300.	700.
-200.	800.
-100.	900.
0.00	1000
100.	1100
200.	1200
300.	[1205]
400.	



8962-23

Line 8000 E
Charlotte Well
for
CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 08 Nov 94

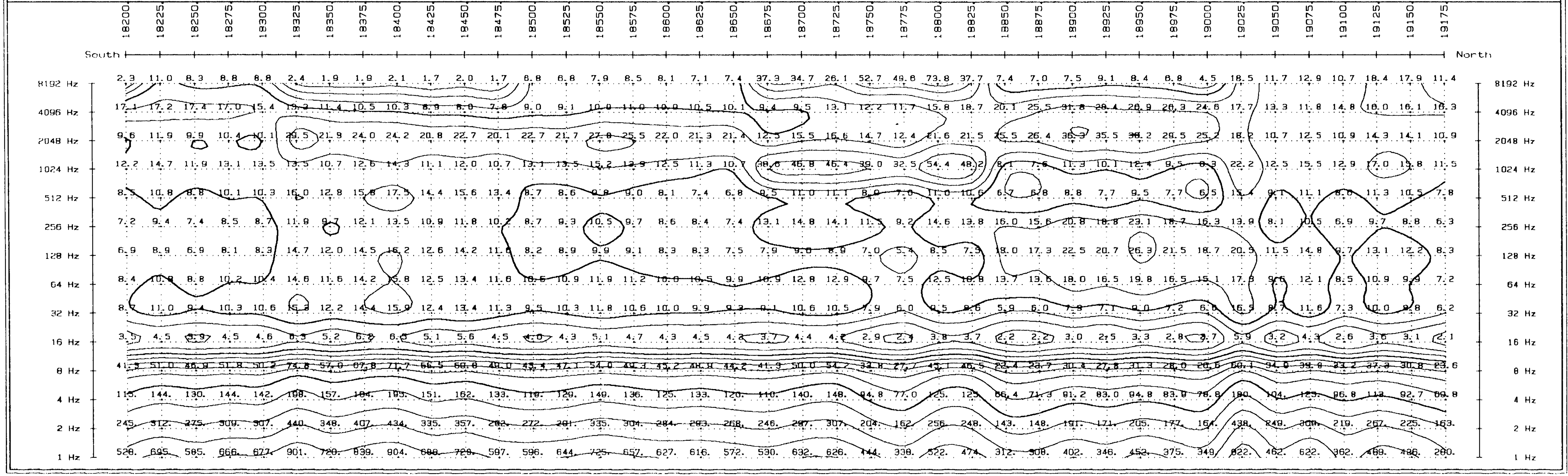
CSAMT SURVEY DATA
STATIC-CORRECTED RES.

5-PT. TMA FILTER AT 4096 HZ
ZSTATIC v2.00a 11/08/94

RECEIVER DATA		TRANSMITTER DATA	
Length =	25 m Line = North	Length	= 1500 m
Spacing=	25 m Dipole= 335	Orient.	= 335
		Distance=	6500 m
Surveyed= 10/94		Rx to Tx=	065

[Plot limits] and LOGARITHMIC CONTOURS
(Interval: 0.20)

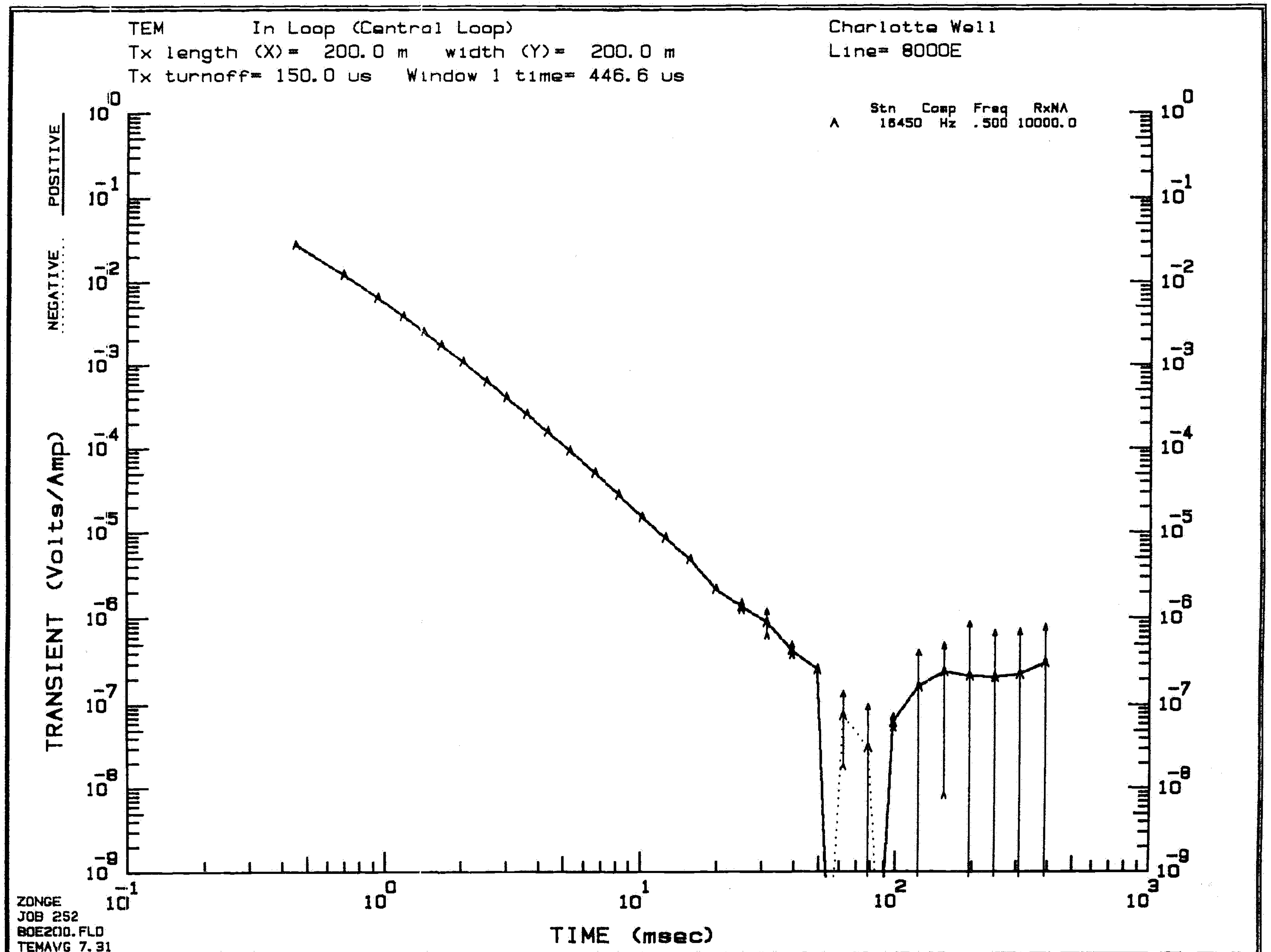
[1.82]	158.
2.51	251.
3.98	398.
6.31	631.
10.0	[917.]
15.8	
25.1	
39.8	
63.1	
100.	

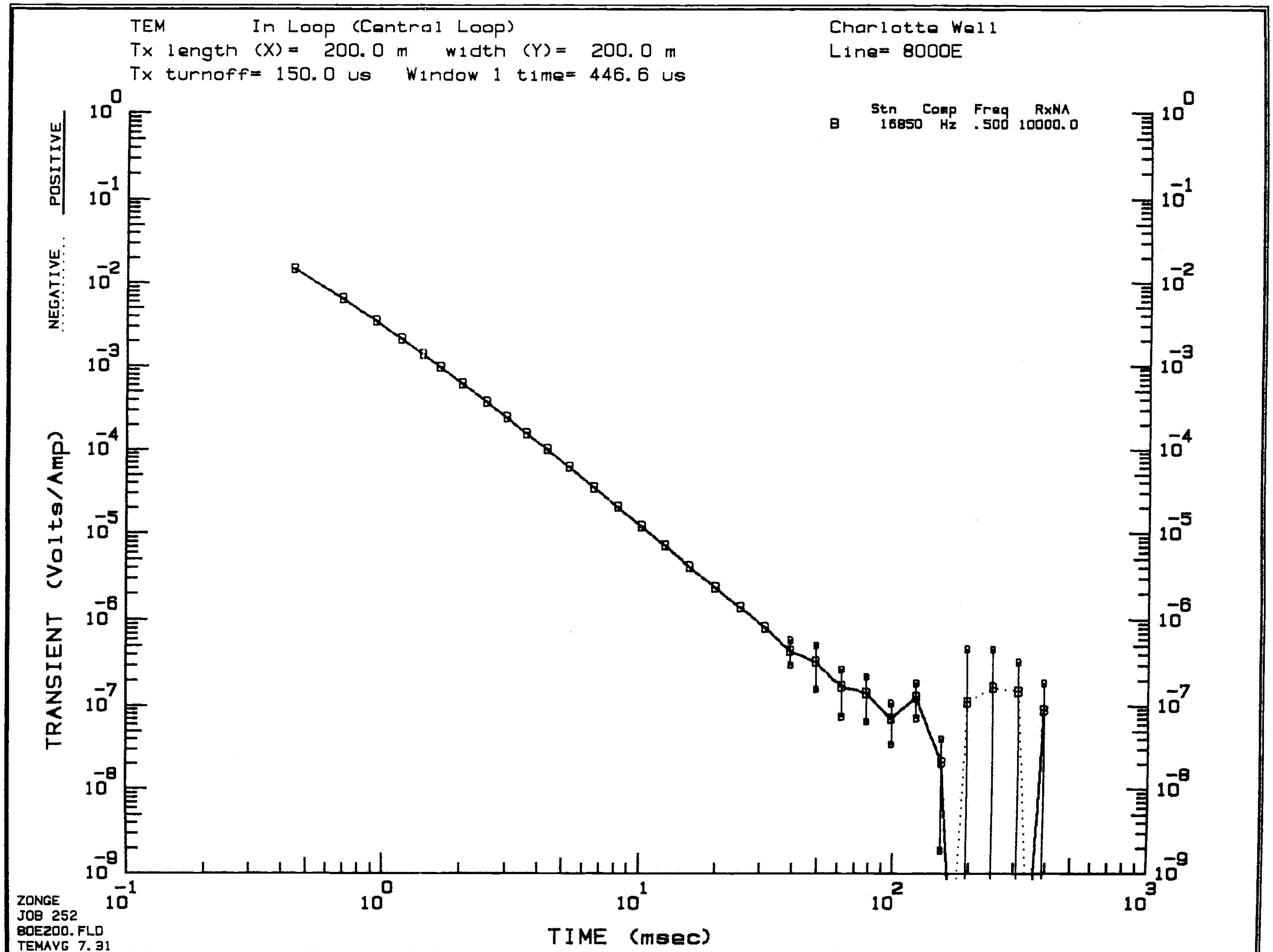


8962-24

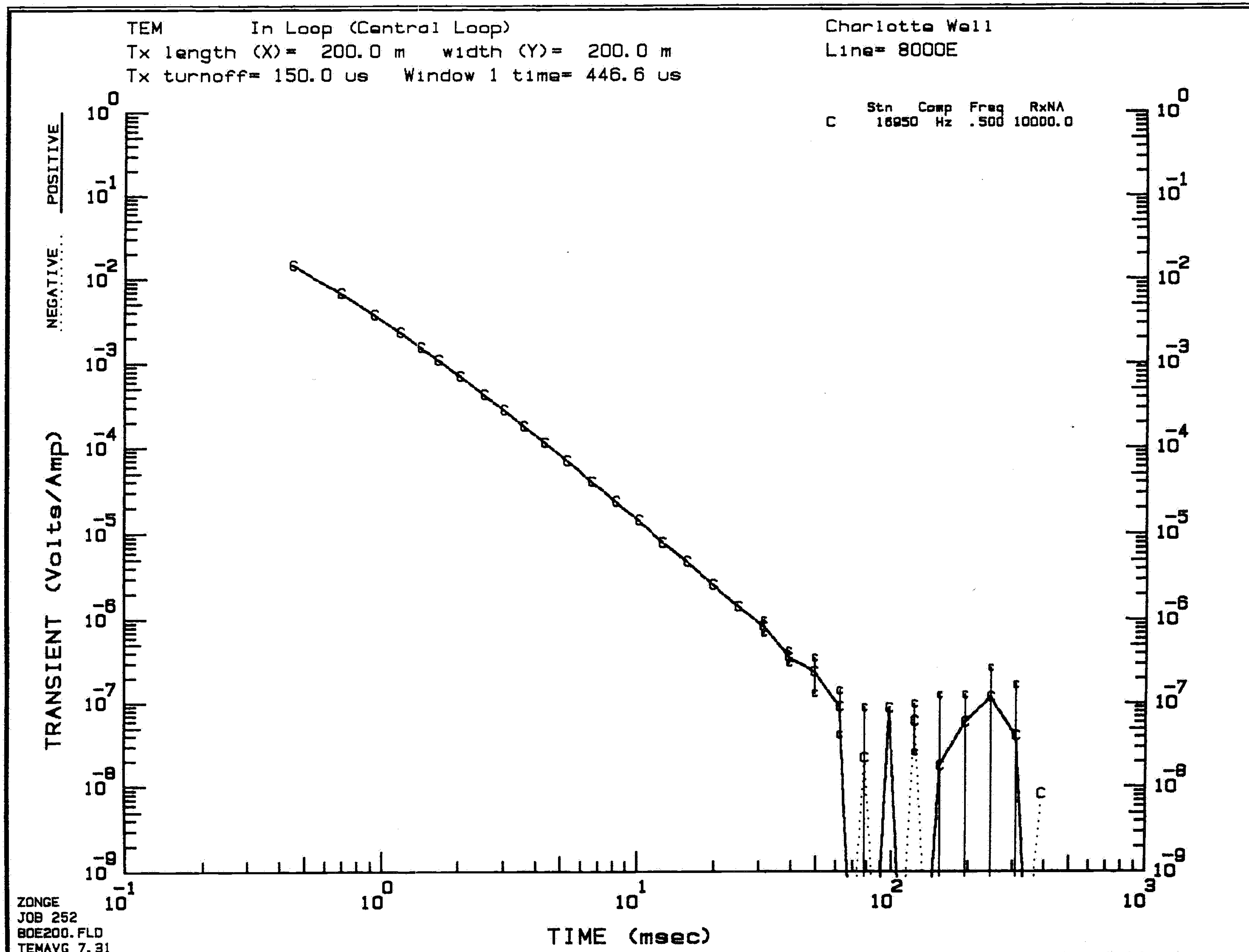
APPENDIX VI

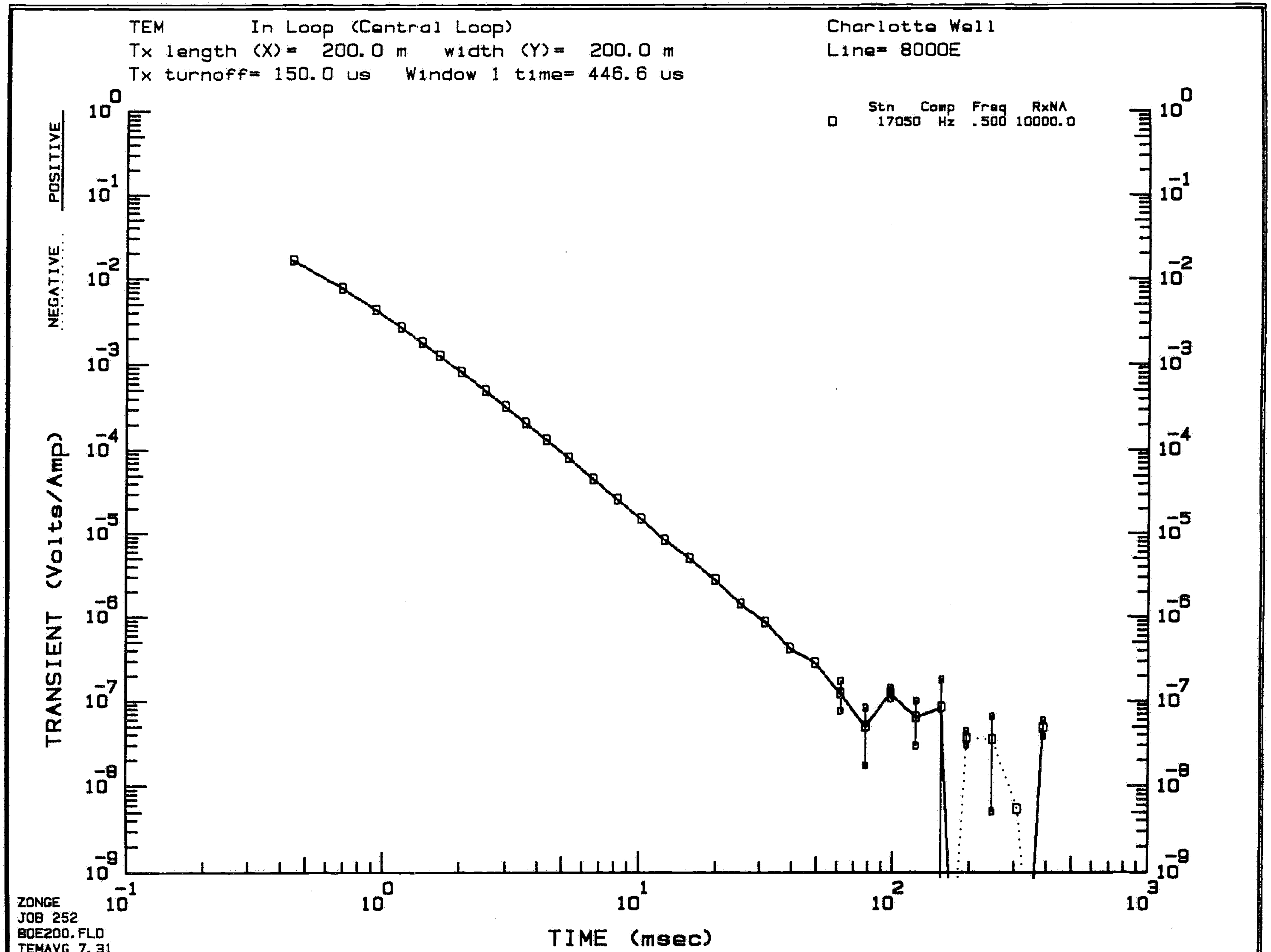
Time Decay Curves for In-loop TEM Survey, Line 8000E


TEM In Loop (Central Loop)
Tx length (X)= 200.0 m width (Y)= 200.0 m
Tx turnoff= 150.0 us Window 1 time= 446.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
A 16450 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E200.FLD
TEMAVG 7.31



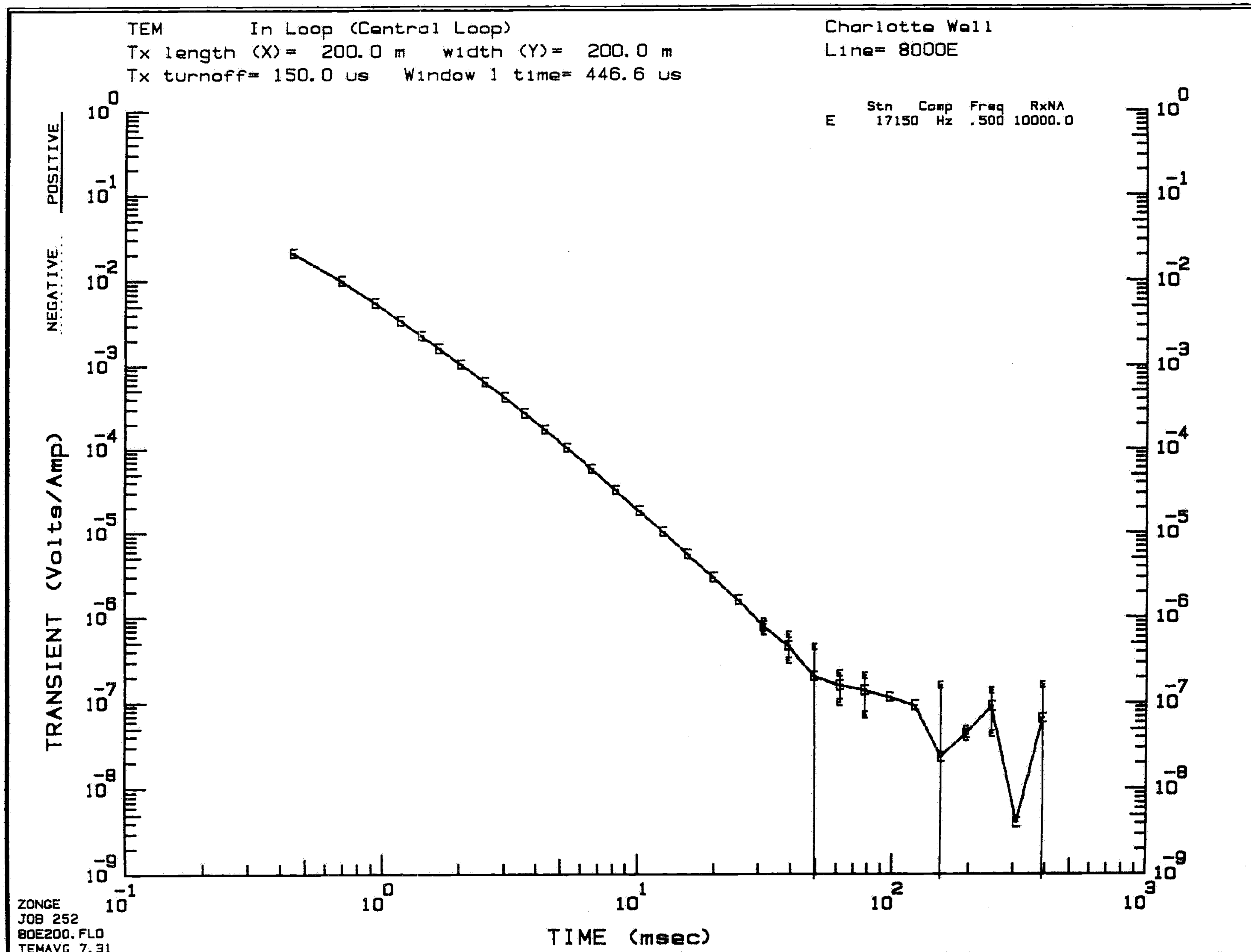
TEM In Loop (Central Loop)
Tx length (X)= 200.0 m width (Y)= 200.0 m
Tx turnoff= 150.0 us Window 1 time= 446.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
B 16850 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E200.FLD
TEMAVG 7.31


TEM In Loop (Central Loop)
Tx length (X)= 200.0 m width (Y)= 200.0 m
Tx turnoff= 150.0 us Window 1 time= 446.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
C 16950 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E200.FLD
TEMAVG 7.31

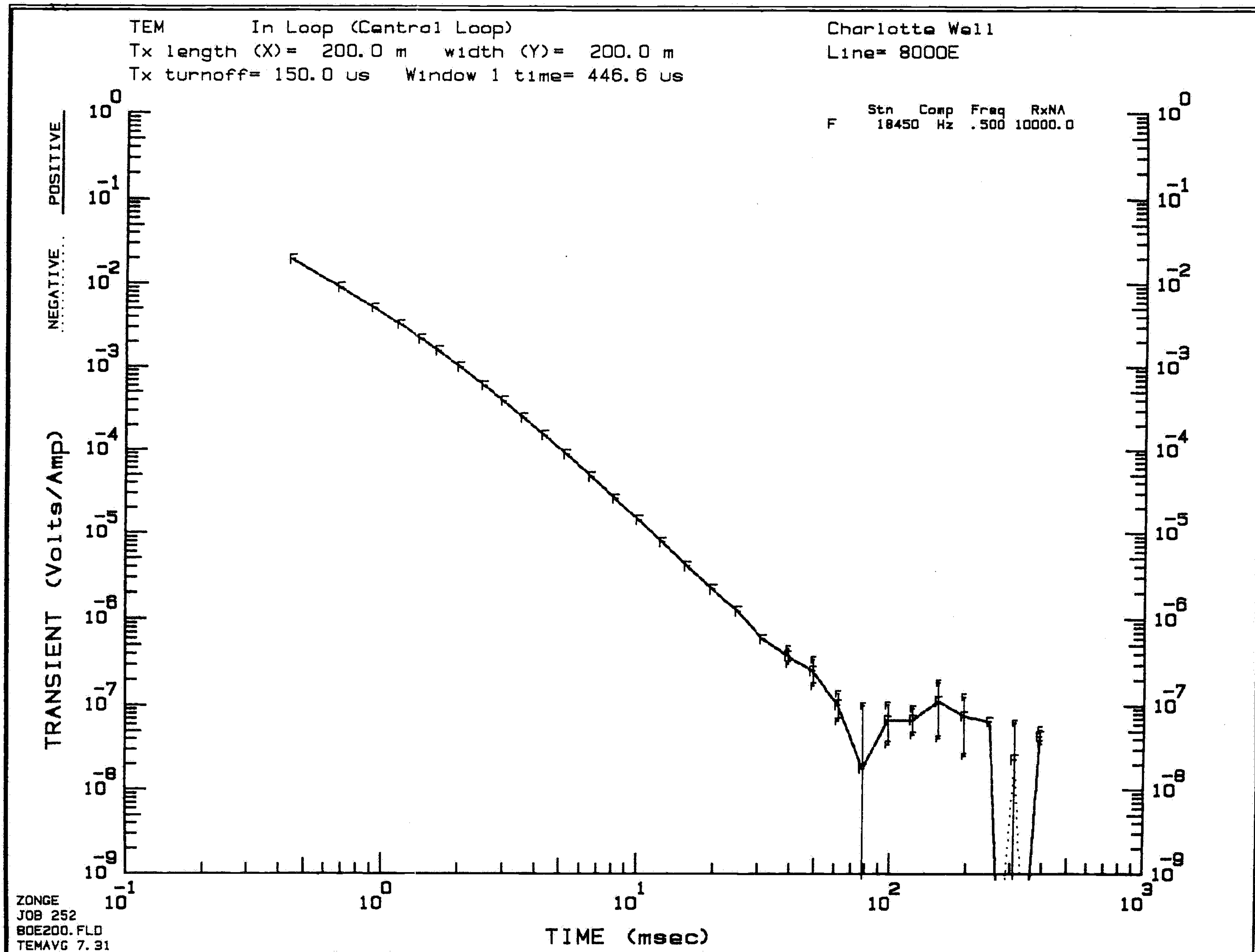


TEM In Loop (Central Loop)
Tx length (X)= 200.0 m width (Y)= 200.0 m
Tx turnoff= 150.0 us Window 1 time= 446.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
17050 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E200.FLD
TEMAVG 7.31

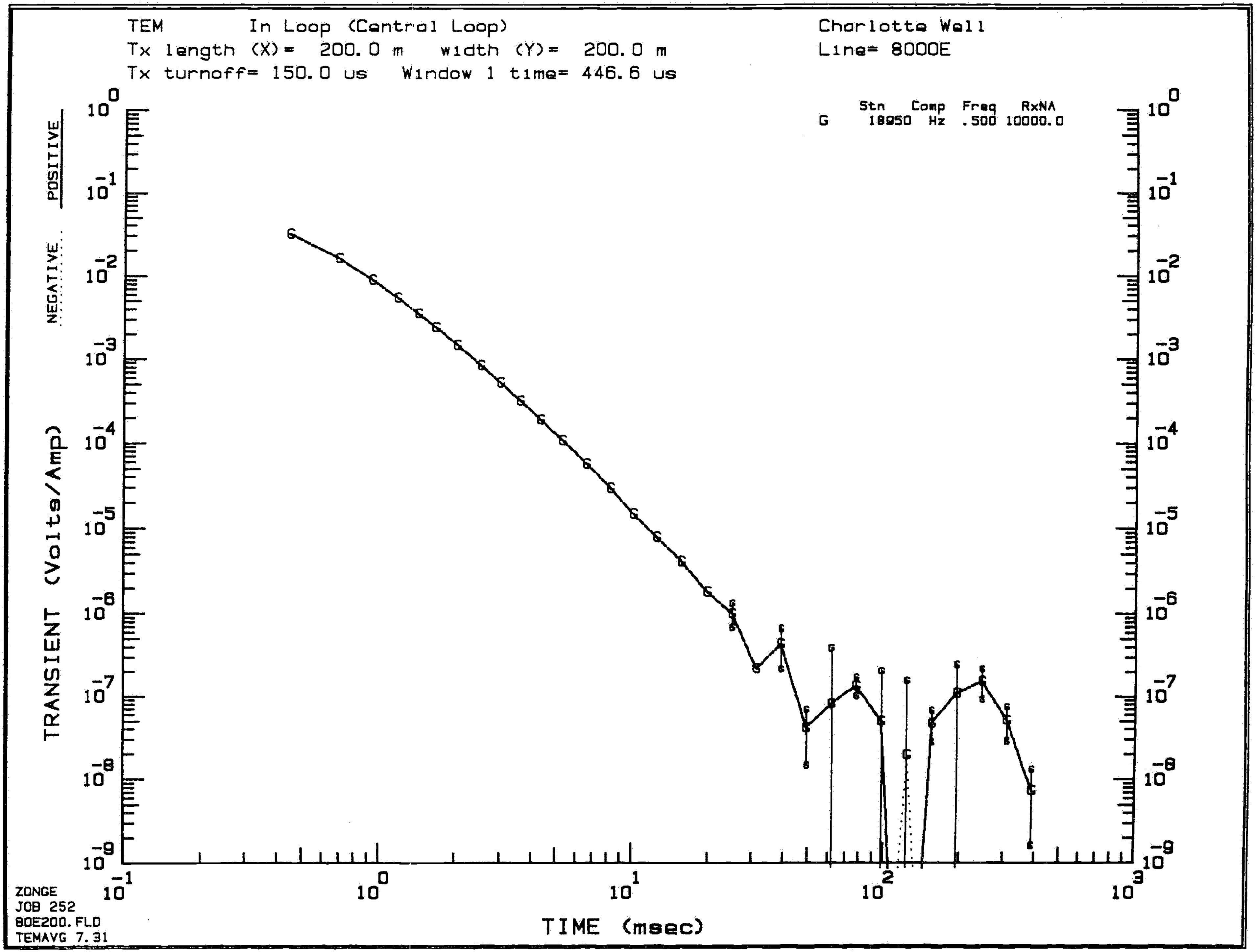
00051



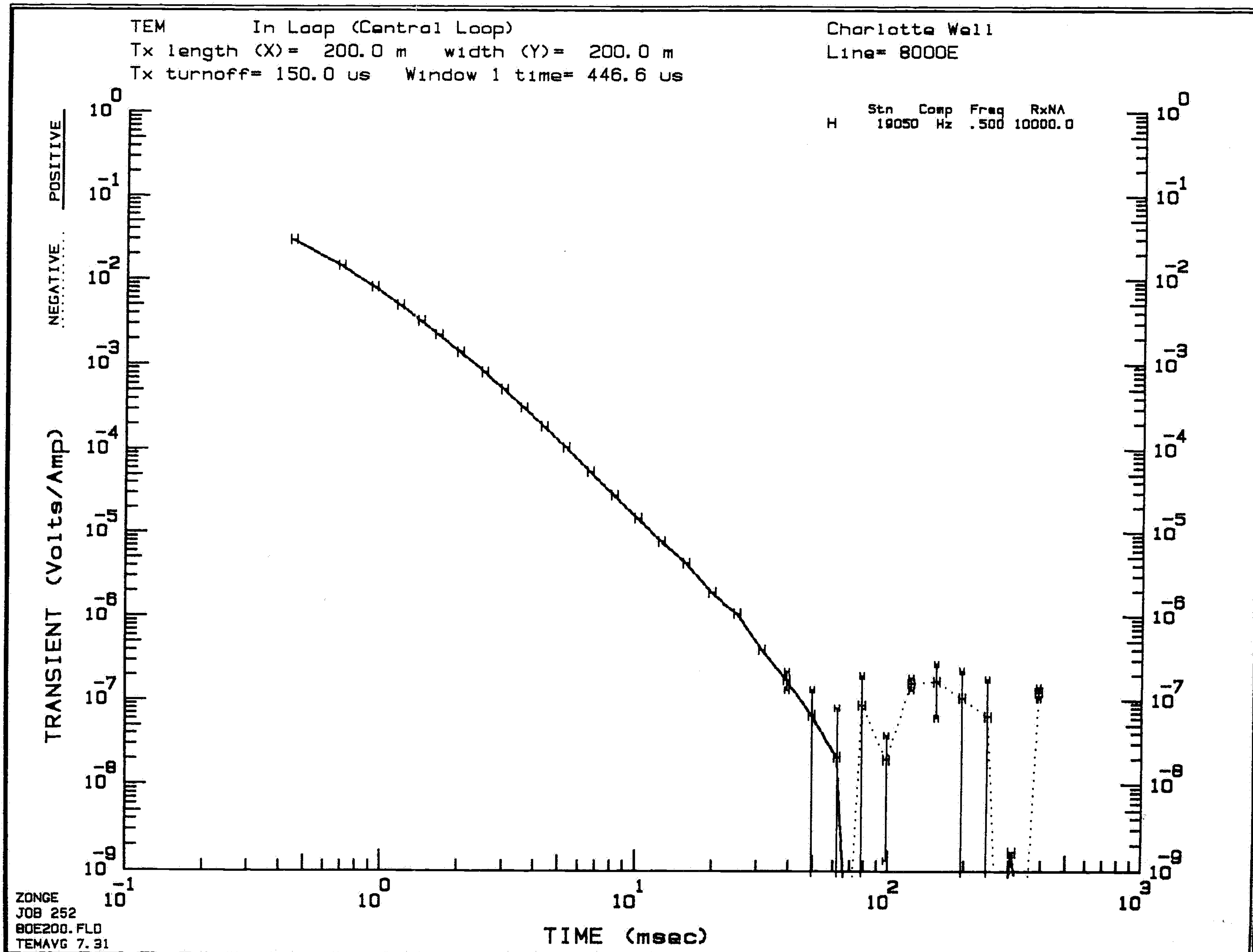
TEM In Loop (Central Loop)
Tx length (X)= 200.0 m width (Y)= 200.0 m
Tx turnoff= 150.0 us Window 1 time= 446.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
E 17150 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E200.FLO
TEMAVG 7.31



TEM In Loop (Central Loop)
Tx length (X)= 200.0 m width (Y)= 200.0 m
Tx turnoff= 150.0 us Window 1 time= 446.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
F 18450 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E200.FLD
TEMAVG 7.31

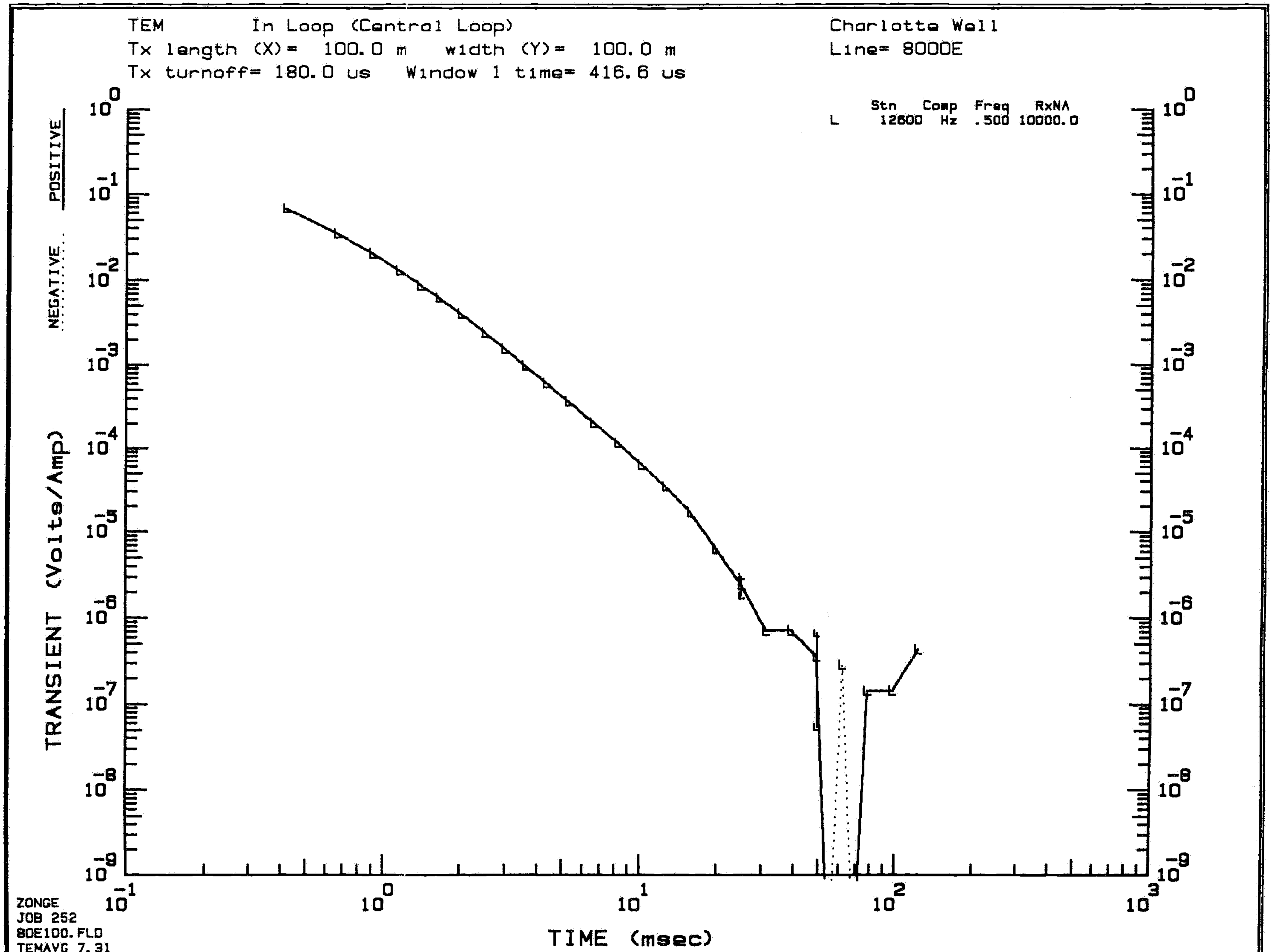


TEM
In Loop (Central Loop)
Tx length (X)= 200.0 m width (Y)= 200.0 m
Tx turnoff= 150.0 us Window 1 time= 446.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
G 18950 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E200.FLD
TEMAVG 7.31



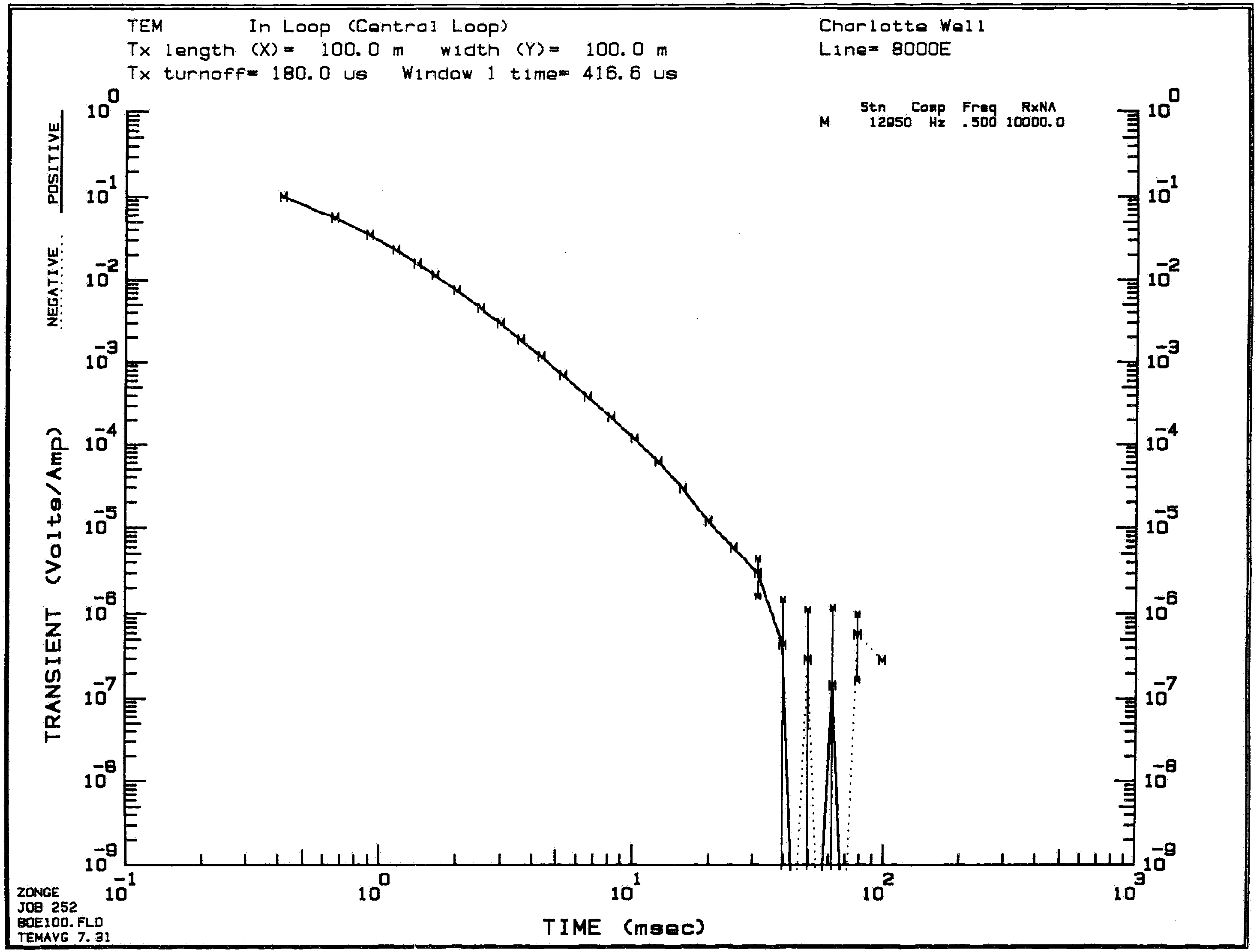
TEM In Loop (Central Loop)
Tx length (X) = 200.0 m width (Y) = 200.0 m
Tx turnoff= 150.0 us Window 1 time= 446.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
H 19050 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E200.FLD
TEMAVG 7.31

55



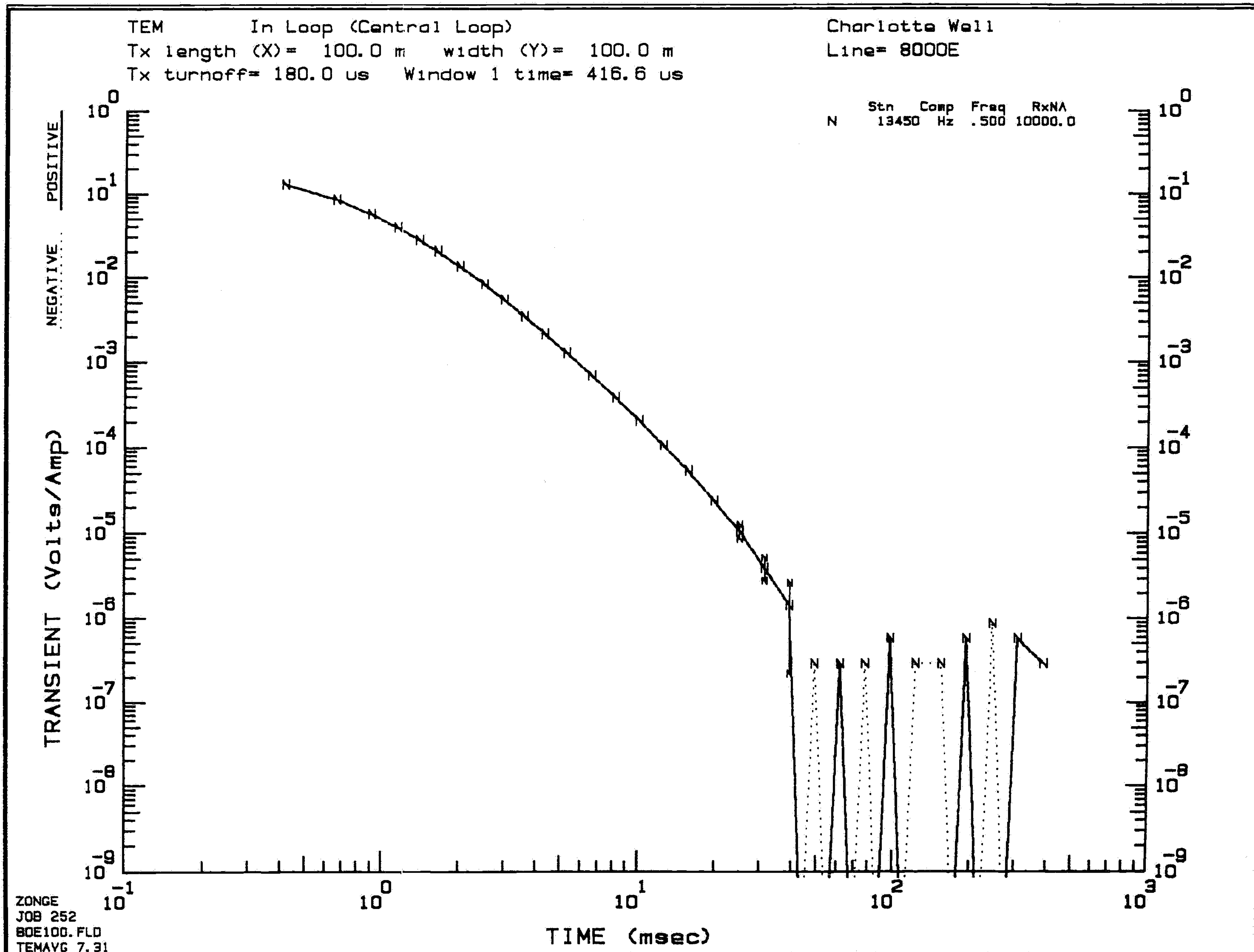
TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
L 12600 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31

56

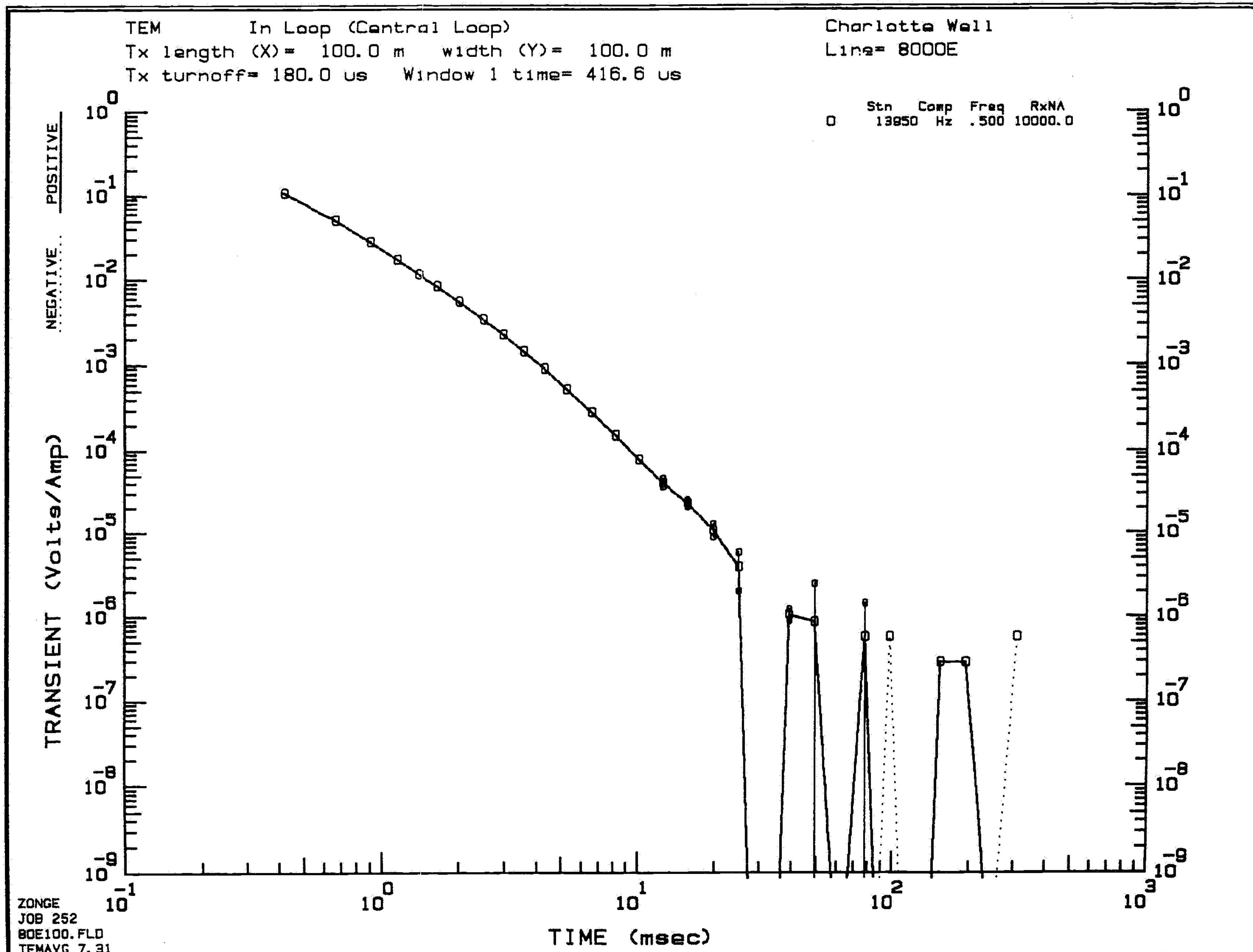


TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
M 12950 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31

J00057

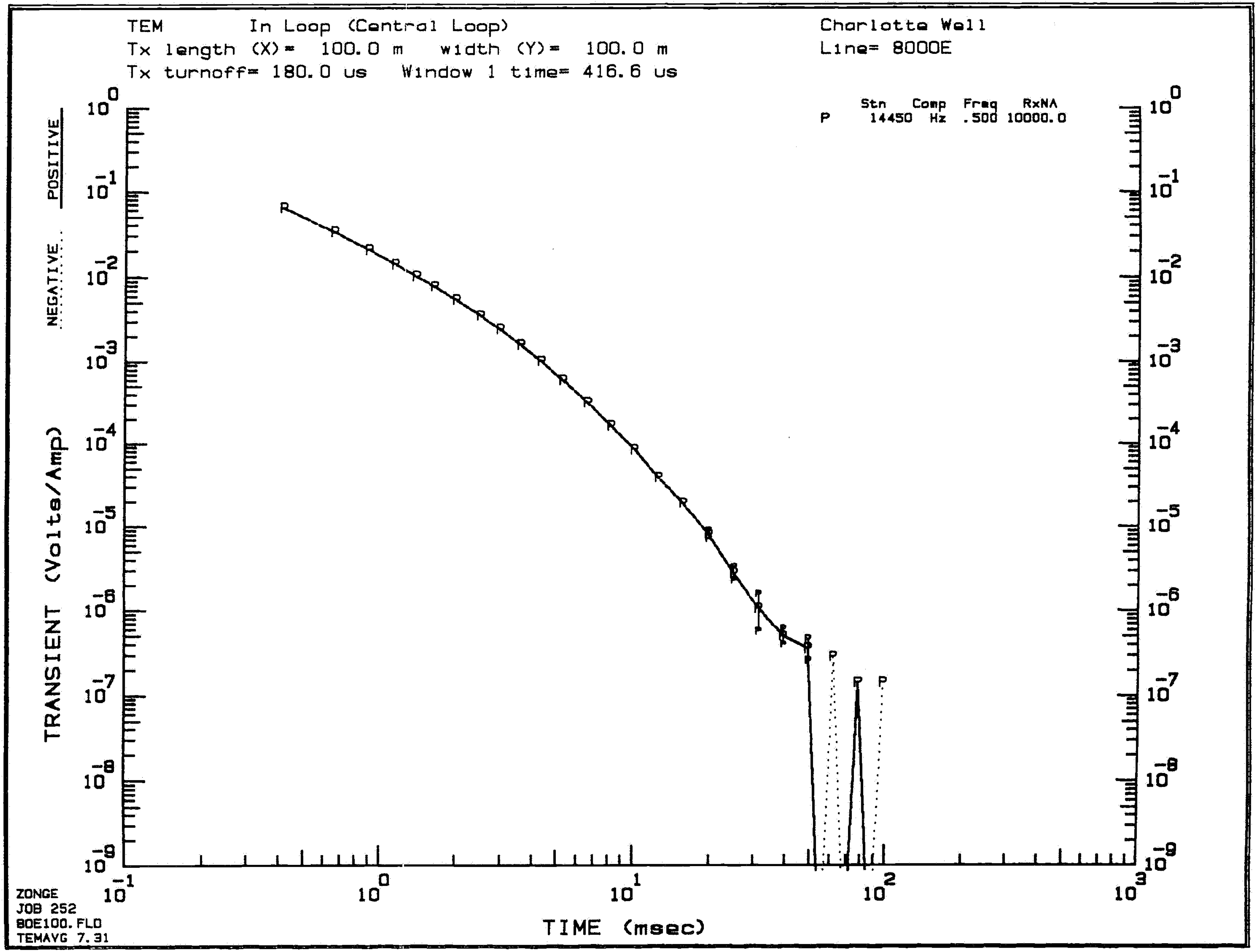

TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
N 13450 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31

100058

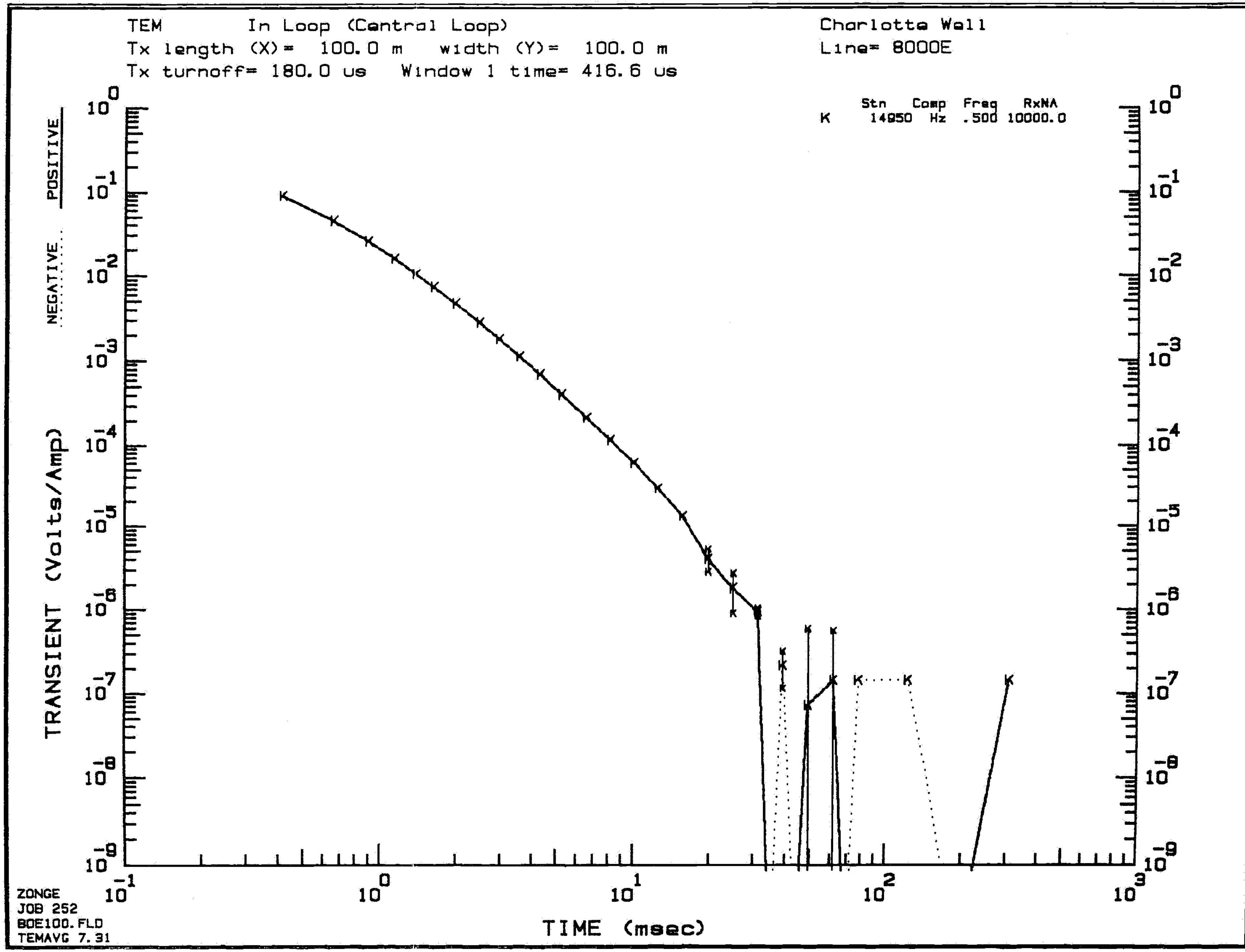


TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
13850 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31

00059

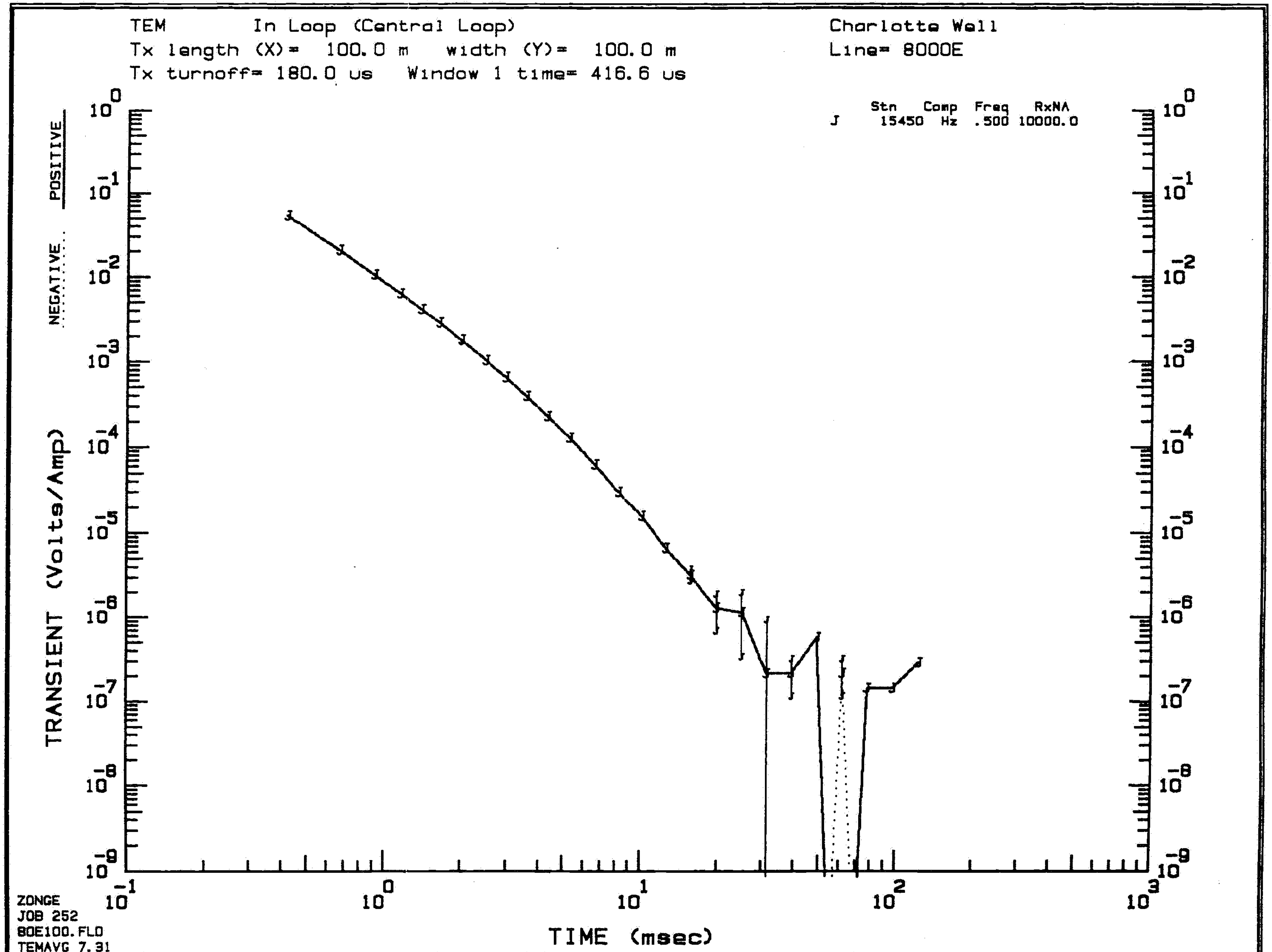

TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
P 14450 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31

000060

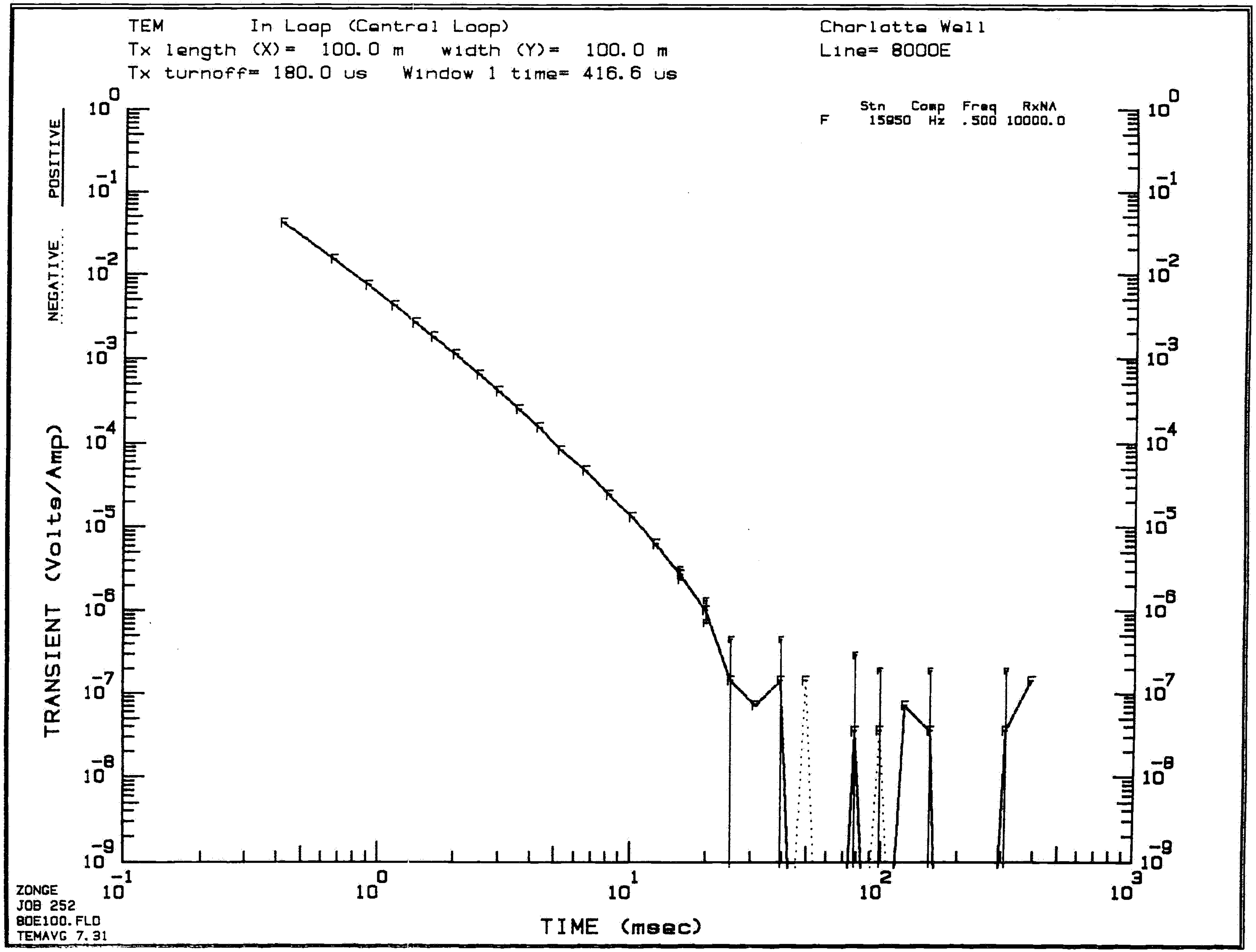


TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Charlotte Wall
Line= 8000E
Stn Comp Freq RxNA
K 14950 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31

J00C61

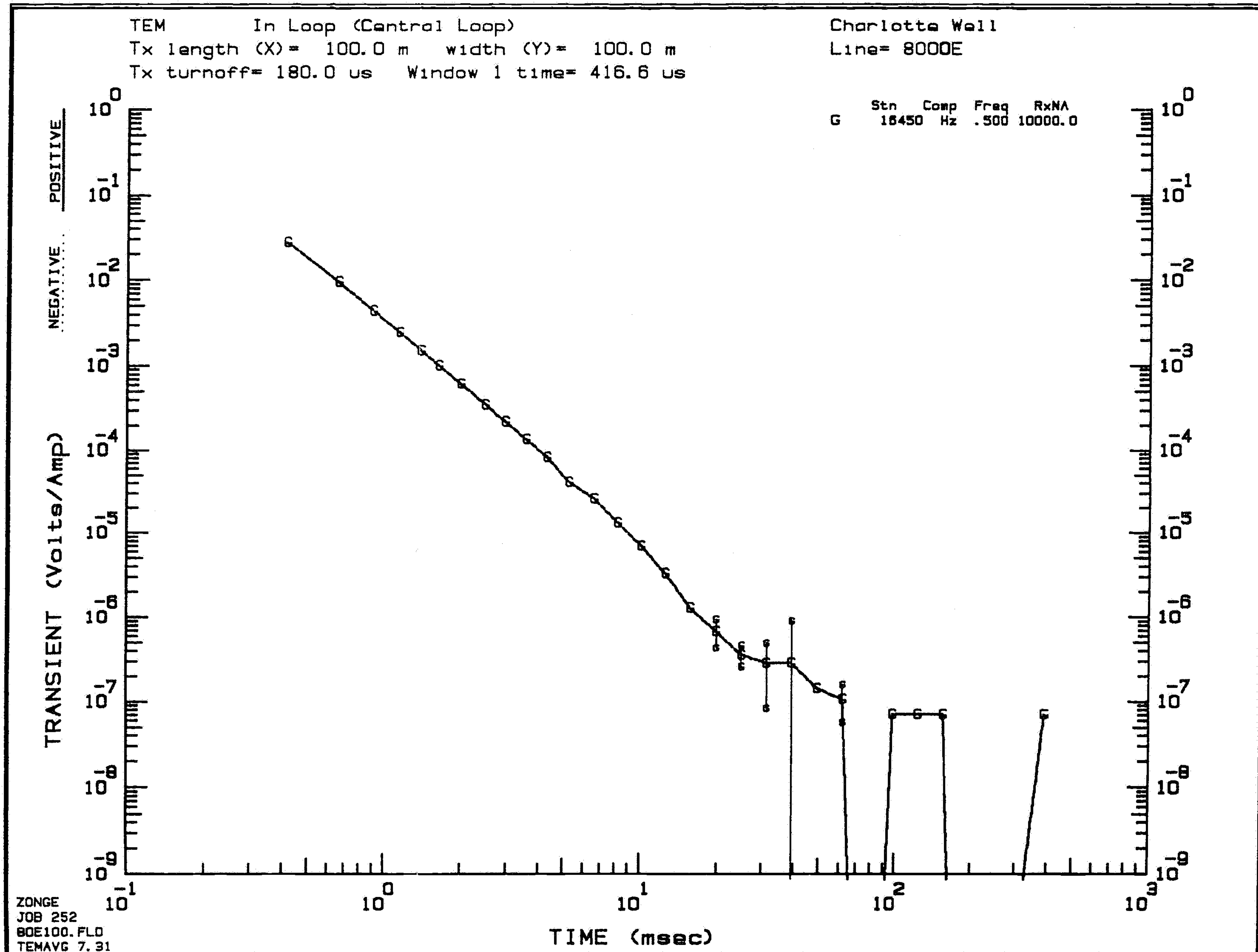

TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
J 15450 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31

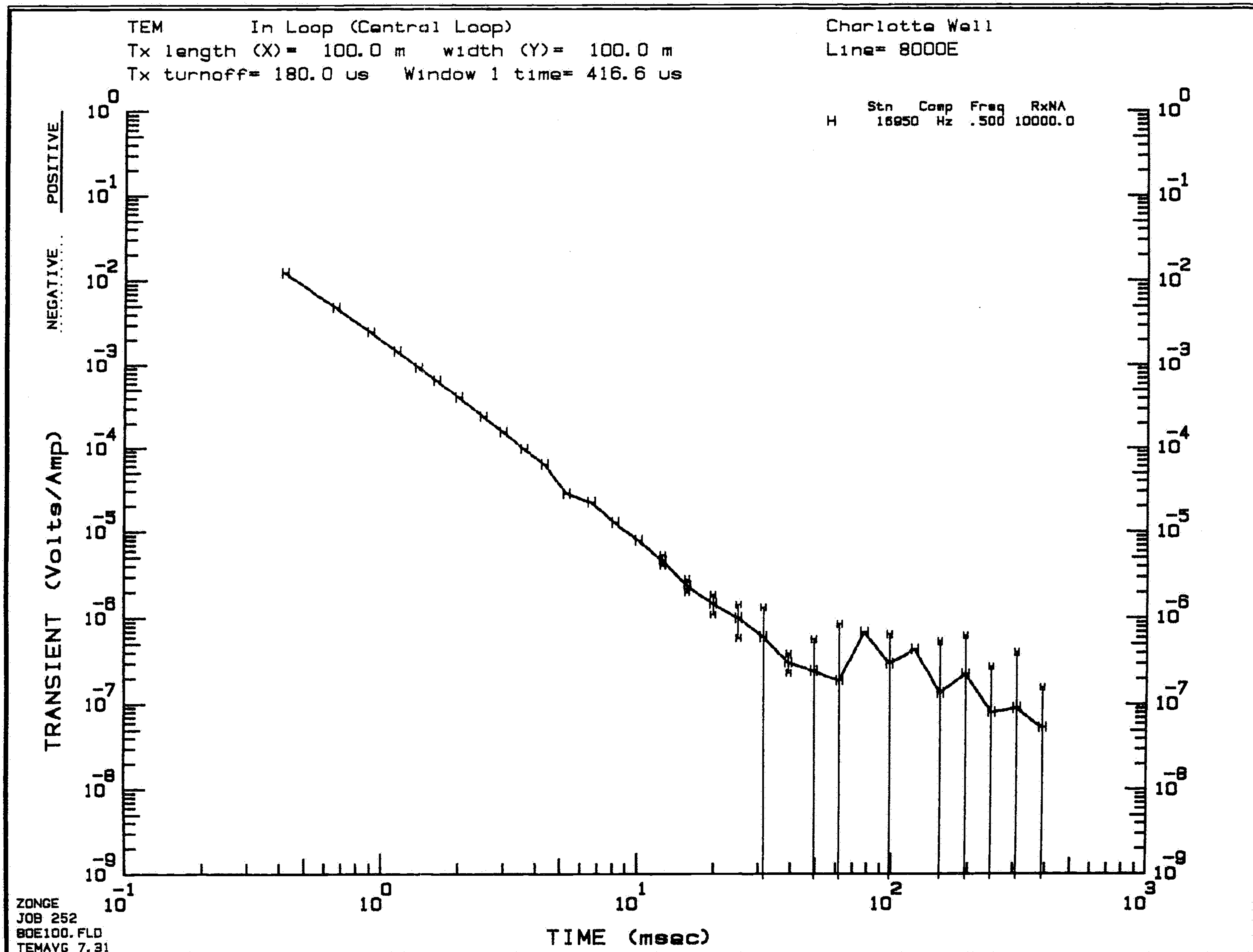
00062



TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
F 15950 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31

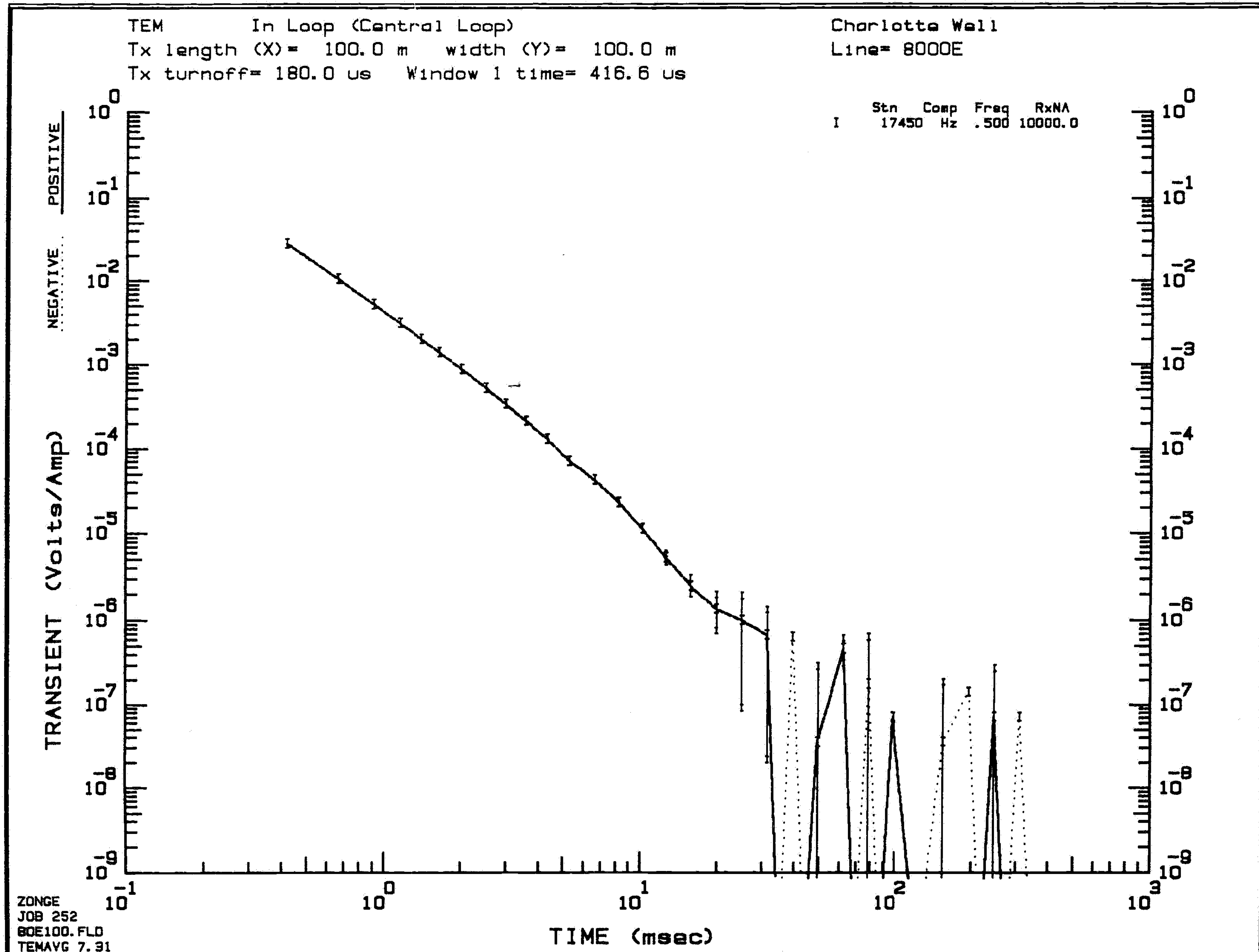
000063


TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
G 16450 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31
100C4

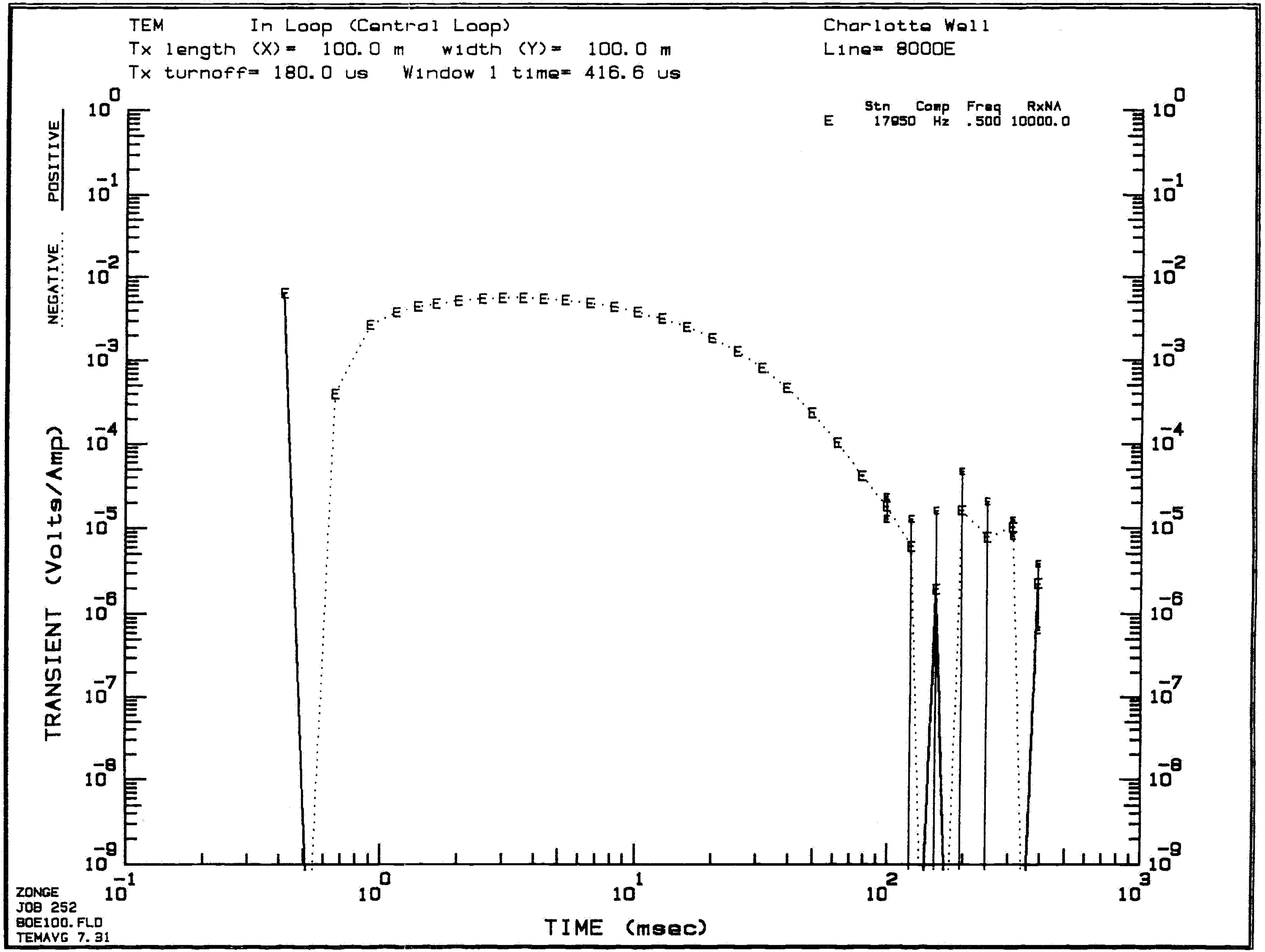


TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
H 16850 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31

100005

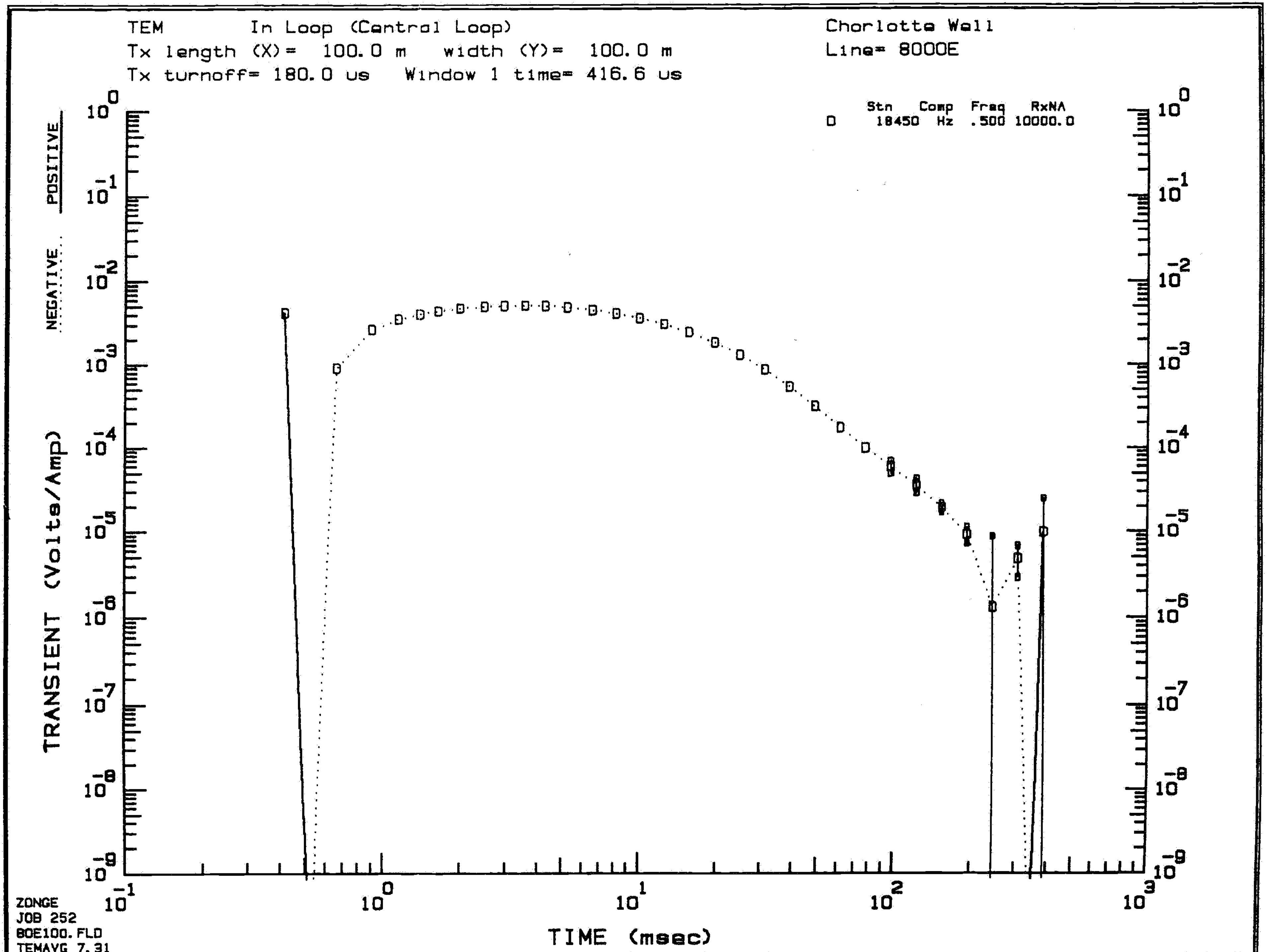

TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
I 17450 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-7}
10^{-8}
10^{-9}
10^{-1}
10^{0}
10^{1}
10^{2}
10^{3}
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31

100066

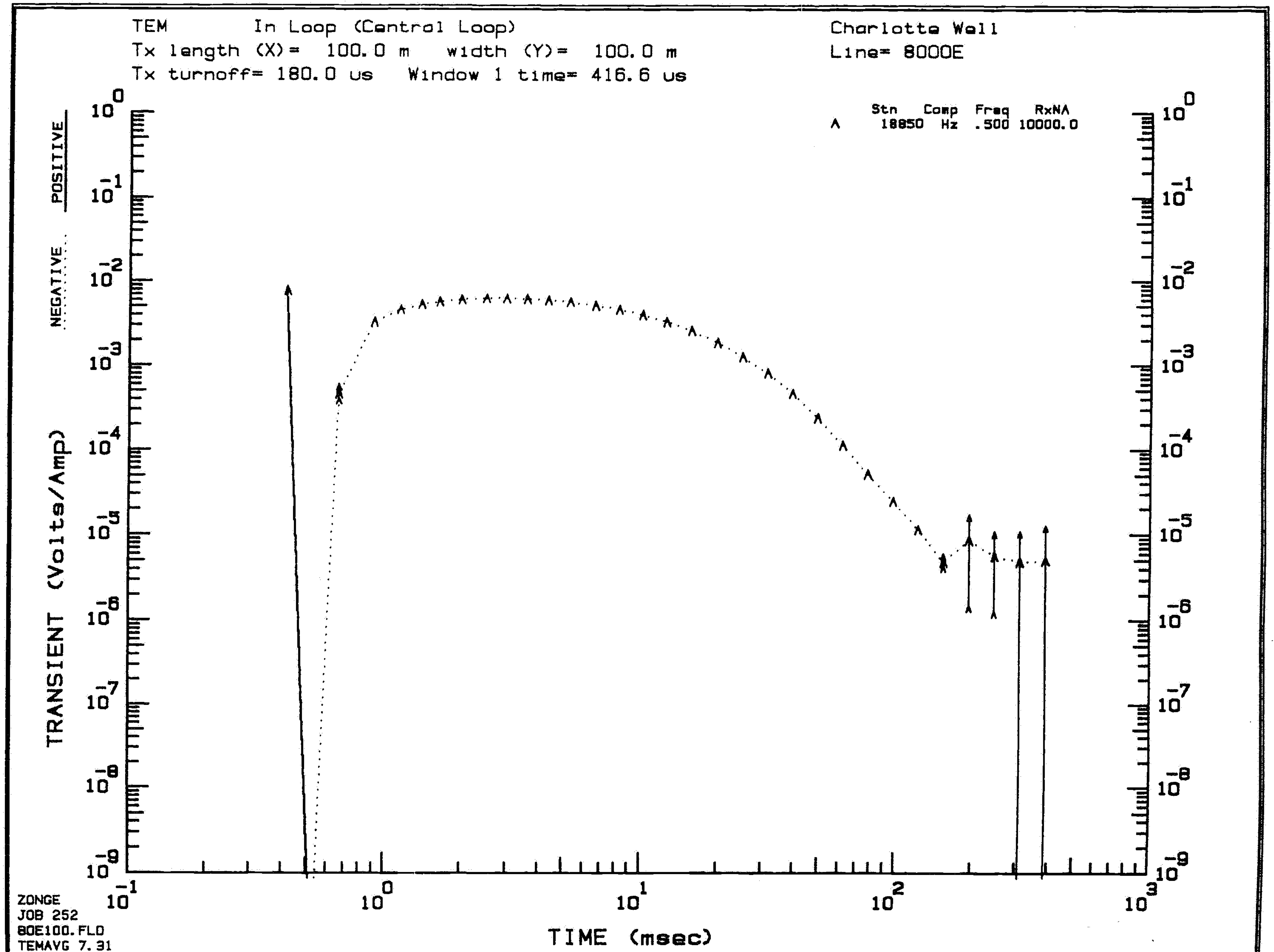


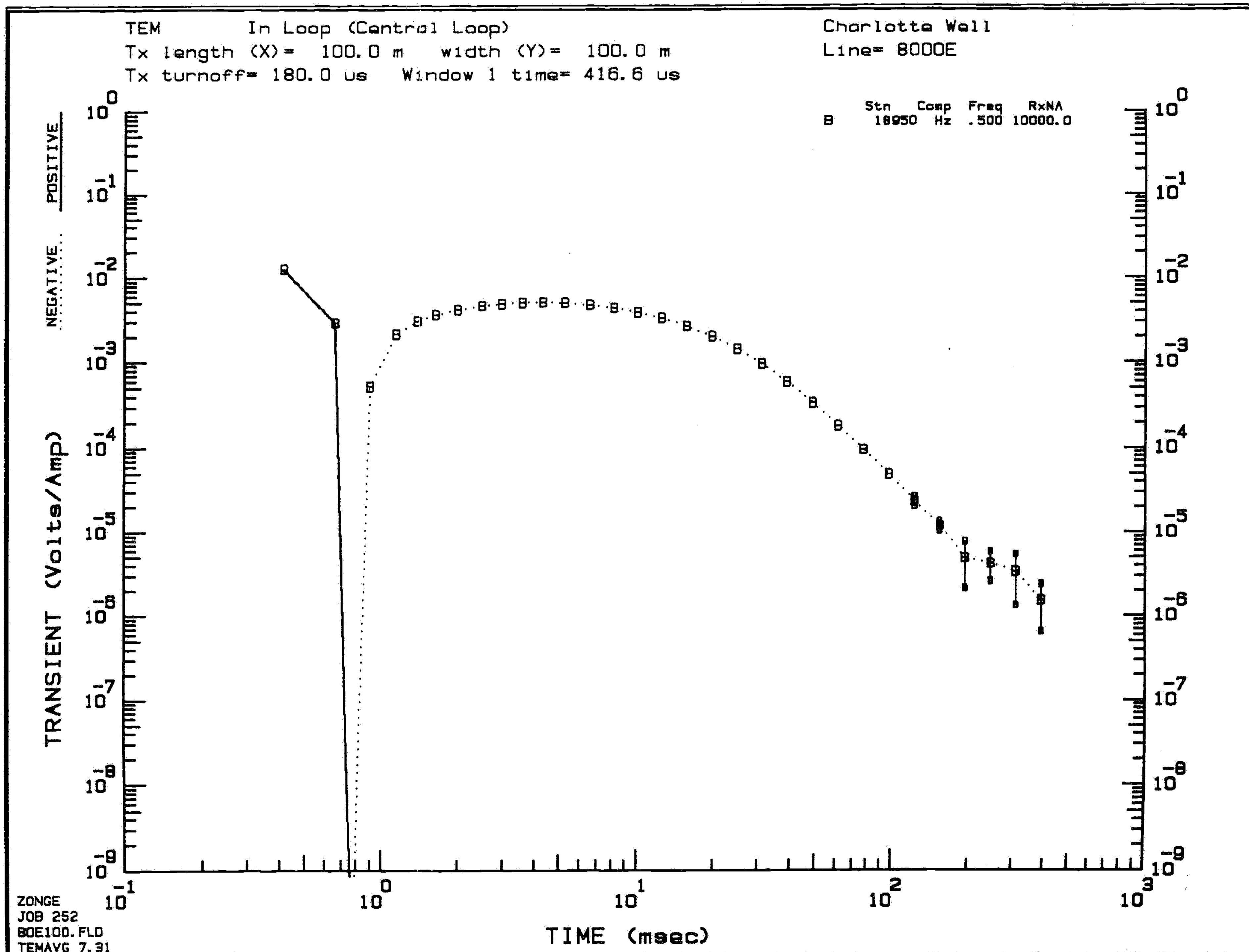
TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
E 17950 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31

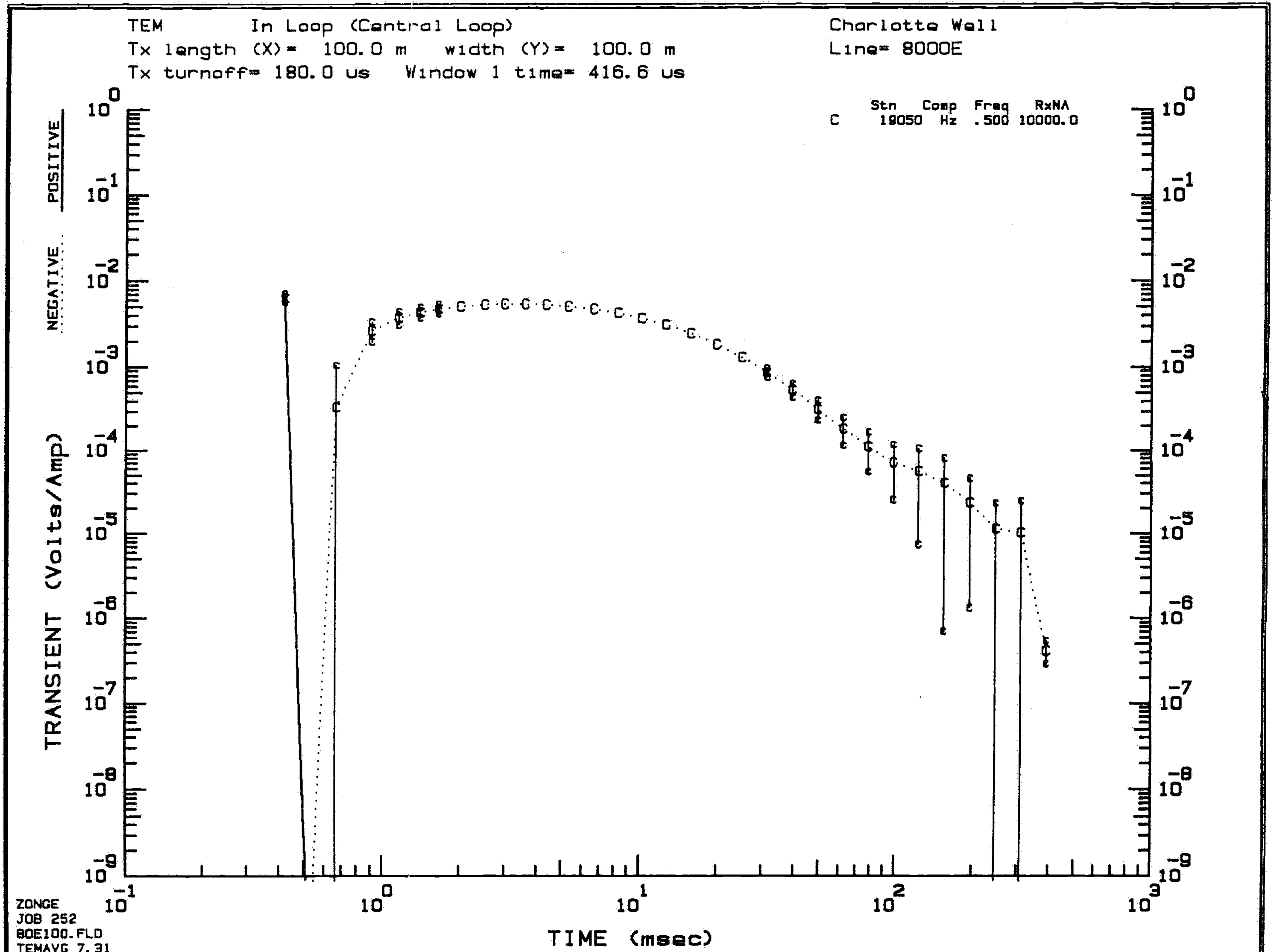
1000027


TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Chorlotte Well
Line= 8000E
Stn Comp Freq RxNA
18450 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31

100068


TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
18850 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31


TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
B 18950 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31



TEM In Loop (Central Loop)
Tx length (X)= 100.0 m width (Y)= 100.0 m
Tx turnoff= 180.0 us Window 1 time= 416.6 us
Charlotte Well
Line= 8000E
Stn Comp Freq RxNA
C 19050 Hz .500 10000.0
POSITIVE
NEGATIVE
TRANSIENT (Volts/Amp)
TIME (msec)
ZONGE
JOB 252
80E100.FLD
TEMAVG 7.31

10071

APPENDIX VII

Lithological Logs and Sample Analyses for 1994 Drill Holes, Line 8000E

HOLE AC94CW1 CHARLOTTE WELL - EL1974

PROSPECT	PINARY DAM	EASTING	593950(AMG)	COMMENCED	7/11/94	DPO	54357	AIRCORE	48m	OXIDISED TO	47m	CONTRACTOR	STRATA
AZIMUTH	-	NORTHING	6546000(AMG)	COMPLETED	8/11/94					WATER TABLE	-	DRILLER	JOHN/TINY
INCLINATION	90°	ZONE	53	GEOLOGIST	WAS							RIG	EXPLORER 200
TOTAL DEPTH	48m	RL	140m										

GEOLOGICAL DESCRIPTION				RESULTS					
From	To	Summary	Detail	Sample No	From	To	Int	SI	CPS
0	2	Sand	Red Brown. Sand partly cemented with clay.	3339489	0	2	2	60	50
2	4	Sand	Brown. Cemented sand and clayey sand, siliceous.	3339490	2	4	2	20	50
4	5	Sandy Clay	L Brown. Sandy clay and cemented sand.	3339491	4	6	2	20	50
5	6	Silcrete	Cream Brown. Silcrete with some of the above.	3339492	6	10	4	20	50
6	12	Sand	Cream. Clayey sand.	3339493	10	12	2	20	50
12	15	Dolerite	Brown. Weathered dolerite, minor magnetite. Limonitic. Some contamination	3339494	12	13	1	200	50
15	19	Dolerite	Red Brown. Weathered dolerite, minor magnetite. Some red feldspar.	3339495	13	14	1	200	50
19	26	Dolerite	Green Brown. Weathered dolerite, minor magnetite. Some Mn on fractures.	3339496	14	15	1	500	50
26	38	Dolerite	Green Brown. Mod weathered dolerite, minor magnetite. Some Mn on fractures.	3339497	15	16	1	500	50
38	41	Dolerite	Green Brown. Mod-wk weathered dolerite, minor magnetite. Some Mn on fractures.	3339498	16	17	1	500	50
41	43	Dolerite	Green Brown. Mod weathered dolerite, minor magnetite. Some Mn on fractures.	3339499	17	18	1	300	50
43	47	Dolerite	Green Brown. Mod-wk weathered dolerite, minor magnetite. Some Mn on fractures.	3339500	18	19	1	300	50
47	48	Dolerite	Green Brown. Wk weathered dolerite, minor magnetite. Some Mn on fractures.	3339501	19	20	1	300	50
EOH				3339502	20	21	1	300	50
				3339503	21	22	1	300	50
				3339504	22	23	1	400	50
				3339505	23	24	1	600	50
				3339506	24	25	1	400	50
				3339507	25	26	1	300	50
				3339508	26	28	2	500	50
				3339509	28	30	2	400	50
				3339510	30	32	2	1500	50
				3339511	32	34	2	900	50
				3339512	34	36	2	1000	50
				3339513	36	38	2	850	50
				3339514	38	40	2	1000	50
				3339515	40	42	2	1000	50
				3339516	42	44	2	1000	50
				3339517	44	46	2	800	50
				3339518	46	48	2	1500	50
				EOH					

SAMPLE	Ag	As	Au	Bi	Ce	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Pd	Pt	Th	U	Zn
3339489	0	-1	-1	0	13	3	230	9	1	0	1	80	2	0	10	6	-1	-5	4	1	20
3339490	0	6	2	0	50	13	170	14	2	1	1	140	3	0	21	19	1	-5	7	4	26
3339491	0	12	-1	0	17	4	190	10	2	1	0	75	3	0	12	11	-1	-5	8	2	20
3339492	0	6	-1	0	18	3	130	9	3	1	1	85	2	1	9	9	-1	-5	12	2	24
3339493	0	-1	-1	0	11	4	50	8	4	1	1	130	1	1	12	9	-1	-5	16	3	30
3339494	0	6	-1	0	11	8	38	11	7	1	1	330	2	1	11	9	-1	-5	16	3	40
3339495	0	6	1	0	9	10	28	14	11	0	0	450	3	1	8	7	-1	-5	12	3	38
3339496	0	4	-1	0	9	11	26	17	10	0	0	740	1	1	5	5	-1	-5	9	2	65
3339497	0	4	-1	0	11	15	26	19	10	0	0	760	1	1	10	8	-1	-5	9	2	110
3339498	0	4	-1	0	11	15	22	17	9	0	0	620	1	1	7	8	-1	-5	8	2	80
3339499	0	-1	-1	0	13	18	22	22	10	1	0	740	3	1	8	11	-1	-5	9	2	90
3339500	0	4	-1	0	11	17	24	22	10	1	0	720	2	1	8	9	-1	-5	8	2	80
3339501	0	4	-1	0	21	20	16	24	10	1	1	580	2	1	11	7	-1	-5	7	2	75
3339502	0	-1	-1	0	44	20	20	28	12	1	1	880	2	1	14	9	-1	-5	7	2	120
3339503	0	4	-1	0	50	22	26	28	11	1	1	740	2	1	11	16	-1	-5	8	2	95
3339504	0	4	-1	0	75	20	22	28	10	1	1	760	1	2	11	21	-1	-5	7	2	100
3339505	0	4	-1	0	90	24	22	32	9	1	1	880	1	2	13	21	-1	-5	8	3	120
3339506	0	-1	-1	0	60	24	24	30	9	1	1	800	1	1	13	12	-1	-5	6	3	110
3339507	0	4	-1	0	65	23	18	30	10	1	1	900	2	2	14	11	-1	-5	7	4	110
3339508	0	4	-1	0	65	26	16	36	9	1	1	1150	1	2	13	10	-1	-5	6	2	130
3339509	0	-1	-1	0	42	60	20	38	10	1	1	2200	1	2	19	8	-1	-5	7	2	160
3339510	0	4	-1	0	48	60	15	36	10	1	1	2600	1	2	20	9	-1	-5	7	2	150
3339511	0	-1	-1	0	42	49	22	30	9	1	1	2000	1	2	20	10	-1	-5	6	2	150
3339512	0	-1	-1	0	50	48	22	32	11	1	1	2600	1	2	21	11	-1	-5	7	2	160
3339513	0	-1	-1	0	50	55	17	32	9	1	1	1600	1	2	22	9	-1	-5	6	2	140
3339514	0	-1	-1	0	49	32	28	32	8	1	1	920	1	2	17	9	-1	-5	7	2	120
3339515	0	-1	-1	0	50	50	22	40	11	1	1	1900	1	2	20	10	-1	-5	7	2	100
3339516	0	4	1	0	55	38	26	34	9	1	1	1450	1	2	17	9	-1	-5	7	2	120
3339517	0	6	1	0	65	44	22	32	9	2	1	1600	1	2	16	12	-1	-5	9	2	120
3339518	0	-1	-1	0	55	35	32	32	9	1	1	1300	1	3	16	9	-1	-5	8	2	110
SCHEME	IC3M	IC3M	FA3	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	FA3	FA3	IC3M	IC3M	IC3M
DL	0	1	1	0	1	0	2	1	0	0	0	5	0	0	2	0	1	5	0	0	2
UNITS	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppb	ppb	ppm	ppm	ppm
LAB:AMDEL																					

100074

HOLE AC/DD94CW2				CHARLOTTE WELL - EL1974							
PROSPECT	PINARY DAM	EASTING	594150(AMG)	COMMENCED	8/11/94	DPO	54357	AIRCORE	0-42.5m	OXIDISED TO	42m	CONTRACTOR	STRATA
AZIMUTH	-	NORTHING	6546000(AMG)	COMPLETED	10/11/94			BQ	42.5-54m	WATER TABLE	-	DRILLER	JOHN / TINY
INCLINATION	90°	ZONE	53	GEOLOGIST	WAS							RIG	EXPLORER 200
TOTAL DEPTH	54m	RL	140m										

CORE BLOCKS				GEOLOGICAL DESCRIPTION				RESULTS					
From	To	Rec	%rec	From	To	Summary	Detail	Sample No	From	To	Int	SI	CPS
				0.00	2.00	Sand	Orange Brown. Sand,some clay.	3339519	0.00	2.00	2.00	200	40
				2.00	3.00	Sandy Clay	Orange Brown. Sandy clay.	3339520	2.00	4.00	2.00	150	40
				3.00	4.00	Sandy Clay	Light Brown. Sandy clay with lumps of silcrete.	3339521	4.00	10.00	6.00	30	40
				4.00	6.00	Silcrete	Light Brown. Silcrete with cemented sand.	3339522	10.00	11.00	1.00	700	40
				6.00	10.00	Sandy Clay	Light Brown. Sandy clay.	3339523	11.00	13.00	2.00	250	40
				10.00	11.00	Laterite	Red Brown. Laterite cap (after dolerite)	3339524	13.00	15.00	2.00	800	40
				11.00	22.00	Mottled Zone	Brown. Highly weathered dolerite, ferruginous in part.	3339525	15.00	17.00	2.00	1500	40
				22.00	24.00	Ferruginous Dolerite	Red Brown. Ferruginous weathered dolerite. Some iron stained feldspar.	3339526	17.00	19.00	2.00	1500	40
				24.00	26.00	Ferruginous Dolerite	Orange Brown. Ferruginous weathered dolerite. Some iron stained feldspar.	3339527	19.00	21.00	2.00	1000	40
				26.00	42.00	Weathered Dolerite	Green Brown. Weathered dolerite. Mn on fractures.	3339528	21.00	22.00	1.00	2000	40
				42.00	42.50	Dolerite	Grey. Fresh dolerite.	3339529	22.00	24.00	2.00	1000	40
							START DIAMOND TAIL	3339530	24.00	26.00	2.00	2000	40
42.50	44.90	2.30	96	42.50	44.10	Dolerite	Green Grey. Fresh, medium to coarse grained dolerite with laths of feldspar and vesicles(?) filled with quartz	3339531	26.00	28.00	2.00	2000	40
44.90	47.90	3.00	100				and chlorite. Minor pyrite.	3339532	28.00	30.00	2.00	2000	40
47.90	50.90	3.05	102	44.10	44.55	Weathered Dolerite	Brown. Weathered dolerite.	3339533	30.00	32.00	2.00	1500	40
50.90	54.00	3.20	103	44.55	52.55	Dolerite	Green Grey. Fresh, medium to coarse grained dolerite with laths of feldspar and vesicles(?) filled with quartz	3339534	32.00	34.00	2.00	2500	40
EOH							and chlorite. Minor pyrite.	3339535	34.00	36.00	2.00	2000	40
				52.55	53.55	Altered Dolerite	Band of potassic(?) altered dolerite (pink-brown colouration) bounded by calcite/quartz veins 5mm thick.	3339536	36.00	38.00	2.00	2000	40
							Wk-mod pyrite and trace chalcopyrite.	3339537	38.00	40.00	2.00	1500	40
				53.55	54.00	Dolerite	Green Grey. Fresh, medium to coarse grained dolerite with laths of feldspar and vesicles(?) filled with quartz and	3339538	40.00	42.00	2.00	200	40
				EOH			chlorite. Minor pyrite.	3339539	42.00	42.70	0.70	1000	40
								3339699	42.70	44.00	1.30	3000	40
								3339700	44.00	46.00	2.00	1500	40
								3339701	46.00	48.00	2.00	3000	40
								3339702	48.00	50.00	2.00	3000	40
								3339703	50.00	52.00	2.00	4000	40
								3339704	52.00	54.00	2.00	1000	40
									EOH				

SAMPLE	Ag	As	Au	Bi	Ce	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Pd	Pt	Th	U	Zn
3339519	-0.1	-1	1	-0.1	16	9.2	280	11	2.42	0.500	0.330	310	2.9	0.510	10	4.3	-1	-5	3.50	0.51	32
3339520	-0.1	4	1	-0.1	14	5.6	230	9	1.65	0.475	0.560	130	2.2	0.260	10	4.9	1	-5	3.40	0.75	24
3339521	0.3	4	1	0.2	20	4.8	110	10	2.58	1.100	0.580	95	1.6	0.470	13	14.0	-1	-5	12.00	2.00	28
3339522	0.2	10	1	0.3	13	4.5	80	16	18.00	0.890	0.550	110	1.8	0.520	9	15.0	-1	-5	18.00	2.40	46
3339523	-0.1	-1	-1	0.2	4.7	3.0	34	12	10.40	0.245	0.220	65	1.1	0.325	3	6.4	-1	-5	10.00	1.60	26
3339524	-0.1	-1	-1	0.2	5.1	5.9	34	24	12.60	0.335	0.200	140	0.8	0.335	4	6.5	-1	-5	9.30	2.00	32
3339525	-0.1	4	-1	0.1	8.1	6.5	32	24	10.60	0.415	0.220	170	0.6	0.405	4	5.1	-1	-5	8.60	2.20	34
3339526	-0.1	-1	-1	0.2	6.9	9.9	44	20	9.10	0.390	0.305	210	0.9	0.650	6	5.5	-1	-5	9.30	2.30	40
3339527	-0.1	-1	-1	0.2	6.9	10.0	32	28	9.10	0.395	0.380	210	0.6	0.900	8	6.6	-1	-5	8.20	2.90	46
3339528	-0.1	-1	1	0.1	7.4	14.0	32	26	8.85	0.465	0.540	260	0.4	1.240	9	4.9	-1	-5	8.00	2.40	80
3339529	-0.1	-1	-1	0.2	55	14.0	26	28	8.70	0.730	0.580	310	0.8	1.420	9	6.1	-1	-5	8.30	2.90	80
3339530	-0.1	-1	-1	-0.1	100	19.0	24	32	8.05	1.260	0.680	340	0.9	1.660	11	4.8	-1	-5	5.90	2.80	75
3339531	-0.1	-1	-1	0.1	105	31.0	30	40	9.50	1.280	0.910	470	0.9	1.960	18	8.0	-1	-5	9.10	3.80	130
3339532	-0.1	-1	-1	-0.1	65	36.0	34	38	8.55	1.340	0.990	1050	0.6	1.940	18	20.0	-1	-5	7.20	2.30	100
3339533	-0.1	-1	-1	0.1	49	34.0	20	36	8.55	1.460	1.040	1500	0.5	2.080	19	25.0	-1	-5	7.30	1.96	120
3339534	-0.1	-1	-1	0.1	135	50.0	26	40	8.65	1.600	1.080	1850	0.5	2.200	24	18.0	-1	-5	8.50	2.70	120
3339535	-0.1	4	-1	0.2	155	48.0	24	42	8.55	1.740	1.140	1350	0.4	2.520	24	9.8	-1	-5	8.10	1.92	120
3339536	-0.1	-1	1	0.1	70	55.0	26	42	8.40	1.540	1.260	1600	0.6	2.700	31	8.4	-1	-5	7.00	1.36	150
3339537	-0.1	-1	1	0.1	42	47.0	22	38	8.05	1.680	1.420	1500	0.8	2.840	30	8.1	-1	-5	7.30	1.44	190
3339538	-0.1	-1	1	-0.1	40	65.0	22	34	8.50	1.780	1.700	2100	0.4	2.200	65	11.0	-1	-5	7.30	1.75	200
3339539	-0.1	-1	-1	0.1	50	70.0	20	38	7.85	1.580	1.800	2750	0.7	2.380	31	9.9	-1	-5	7.10	1.62	150
3339699	-0.1	4	-1	0.1	49	40.0	28	38	8.25	1.420	2.460	1350	0.7	2.400	17	12.0	-1	-5	6.40	1.28	120
3339700	-0.1	6	-1	0.2	55	44.0	24	38	8.30	1.360	2.600	1350	0.5	2.380	16	10.0	-1	-5	7.60	1.24	120
3339701	0.1	-1	-1	0.1	50	36.0	22	38	8.80	1.360	2.440	1300	0.5	2.260	15	9.3	-1	-5	8.00	1.53	110
3339702	0.1	-1	-1	0.1	55	38.0	22	38	8.35	1.460	2.500	1300	0.5	2.260	19	9.5	-1	-5	7.60	1.30	110
3339703	0.1	6	-1	0.2	55	39.0	24	36	8.55	1.480	2.400	1300	1.2	2.240	21	11.0	-1	-5	8.10	1.64	110
3339704	-0.1	12	-1	-0.1	55	38.0	22	34	8.05	1.660	2.060	1150	1.9	2.300	20	11.0	-1	-5	6.70	3.30	100
SCHEME	IC3M	IC3M	FA3	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	FA3	FA3	IC3M	IC3M	IC3M
DL	0.1	1	1	0.1	0.5	0.2	2	1	0.01	0.001	0.001	5	0.2	0.001	2	0.2	1	5	0.02	0.02	2
UNITS	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppb	ppb	ppm	ppm	ppm
LAB:AMDEL																					

HOLE AC94CW3 — CHARLOTTE WELL - EL1974

PROSPECT	PINARY DAM	EASTING	594350(AMG)	COMMENCED	8/11/94	DPO	54357	AIRCORE	40.5m	OXIDISED TO	39m	CONTRACTOR	STRATA
AZIMUTH	-	NORTHING	6546000(AMG)	COMPLETED	8/11/94					WATER TABLE	-	DRILLER	JOHN/TINY
INCLINATION	90°	ZONE	53	GEOLOGIST	WAS							RIG	EXPLORER 200
TOTAL DEPTH	40.5m	RL	140m										

GEOLOGICAL DESCRIPTION

From	To	Summary	Detail
0	3	Sand	Orange Brown. Sand, some cemented lumps
3	4	Cemented Sand	Orange Brown. Cemented sand, almost silcrete.
4	5	Silcrete	Orange Brown. Silcrete, ferruginous n part, plus cemented sand.
5	6	Sandy Clay	Light Brown. Sandy clay and silcrete.
6	10	Sandy Clay	Light Brown. Sandy clay.
10	11	Clay	Cream. Clay.
11	12	Weathered Dolerite	Red Brown. Clay and highly weathered dolerite.
12	17	Weathered Dolerite	Red Brown. Highly weathered dolerite, ferruginous in part.
17	20	Weathered Dolerite	Orange Brown. Weathered dolerite, ferruginous in part. Iron stained feldspars.
20	39	Weathered Dolerite	Green Brown. Weathered dolerite, Mn on fractures. Mod magnetite.
39	41	Weathered Dolerite	Green. Wk-Mod weathered dolerite, Mn on fractures. Mod magnetite.
EOH			

RESULTS

Sample No	From	To	Int	SI	CPS
3339540	0	4	4	50	50
3339541	4	6	2	50	50
3339542	6	10	4	20	50
3339543	10	12	2	150	50
3339544	12	14	2	500	50
3339545	14	16	2	500	50
3339546	16	18	2	600	50
3339547	18	20	2	600	50
3339548	20	22	2	2000	50
3339549	22	24	2	2000	50
3339550	24	26	2	1500	50
3339551	26	28	2	800	50
3339552	28	30	2	1500	50
3339553	30	32	2	2000	50
3339554	32	34	2	2000	50
3339555	34	36	2	2000	50
3339556	36	38	2	2000	50
3339557	38	40	2	3000	50
3339558	40	40.5	0.5	3000	50
	EOH				

SAMPLE	Ag	As	Au	Bi	Ce	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Pd	Pt	Th	U	Zn
3339540	-0.1	-1	1	-0.1	9.2	4.7	370	9	1.4	0.365	0.395	120	2.8	0.175	13	3.4	-1	-5	2.2	0.47	18
3339541	-0.1	4	1	0.2	31	7.4	320	11	2.3	0.84	0.48	100	3.3	0.35	16	13	-1	-5	8.6	2.3	24
3339542	0.1	4	-1	0.2	17	3.6	120	10	2.6	1.18	0.47	75	1.4	0.43	10	7.6	-1	-5	9.2	1.24	24
3339543	-0.1	4	-1	0.2	30	5.1	55	12	7	1.2	0.8	130	1.8	0.67	15	19	-1	-5	16	2.5	32
3339544	-0.1	4	-1	0.1	33	6.5	32	15	12.6	0.225	0.175	110	1.6	0.6	6	22	-1	-5	6.1	2.2	38
3339545	0.1	-1	-1	-0.1	11	8.2	36	22	12.2	0.25	0.195	190	1.5	0.99	7	7.2	-1	-5	5.4	1.95	50
3339546	-0.1	-1	-1	0.3	6.5	13	34	28	10.8	0.325	0.33	290	0.9	1.48	12	8.5	-1	-5	6.7	2.9	70
3339547	-0.1	-1	-1	0.2	7.9	18	38	24	9.35	0.425	0.475	280	0.8	1.66	16	11	-1	-5	6.1	3.2	85
3339548	-0.1	6	-1	0.1	12	25	30	32	12.2	0.84	0.57	400	0.7	1.56	17	14	-1	-5	7.9	4.1	100
3339549	-0.1	-1	-1	0.1	65	30	34	32	11.2	1.34	0.75	430	1.2	1.62	13	9.3	-1	-5	6.8	3.5	100
3339550	-0.1	6	-1	0.1	70	39	36	36	10.4	1.58	0.84	760	2	1.8	18	16	-1	-5	7.3	4	110
3339551	-0.1	12	-1	0.1	90	49	26	40	10	1.6	0.9	1700	0.6	1.88	16	41	-1	-5	6.5	3.1	110
3339552	0.4	6	-1	0.1	46	75	26	40	9.25	1.6	0.95	2100	0.8	2.12	17	22	-1	-5	6.1	2.8	130
3339553	-0.1	4	-1	-0.1	40	70	28	42	9.9	1.5	1.24	2700	0.4	2.72	23	18	-1	-5	6.2	2	150
3339554	0.8	-1	-1	0.2	37	55	24	40	9.4	1.46	1.2	4450	0.7	3.02	17	8.3	-1	-5	5.9	2.1	110
3339555	-0.1	-1	-1	0.1	33	70	24	46	8.7	1.5	1.2	11000	0.8	3.32	13	8.9	-1	-5	4.6	2.4	110
3339556	-0.1	-1	-1	0.1	38	38	28	40	9.1	1.62	1.14	600	0.5	3.34	14	6.6	-1	-5	5.6	1.78	110
3339557	-0.1	4	-1	0.1	22	44	28	32	8.45	1.48	1.38	640	0.9	3.34	15	8.8	-1	-5	3	1.14	110
3339558	-0.1	4	-1	-0.1	29	38	48	26	8.2	1.62	1.58	600	0.9	3.36	14	7.8	-1	-5	4.6	1.2	110
SCHEME	IC3M	IC3M	FA3	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	FA3	FA3	IC3M	IC3M	IC3M
DL	0.1	1	1	0.1	0.5	0.2	2	1	0.01	0.001	0.001	5	0.2	0.001	2	0.2	1	5	0.02	0.02	2
UNITS	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppb	ppb	ppm	ppm	ppm
LAB:AMDEL																					

HOLE AC94CW4 CHARLOTTE WELL - EL1974

PROSPECT	PINARY DAM	EASTING	594900(AMG)	COMMENCED	9/11/94	DPO	54357	AIRCORE	18m	OXIDISED TO	39m	CONTRACTOR	STRATA
AZIMUTH	-	NORTHING	6546000(AMG)	COMPLETED	9/11/94					WATER TABLE	-	DRILLER	JOHN/TINY
INCLINATION	90°	ZONE	53	GEOLOGIST	WAS							RIG	EXPLORER 200
TOTAL DEPTH	18m	RL	140m										

GEOLOGICAL DESCRIPTION				RESULTS					
From	To	Summary	Detail	Sample No	From	To	Int	SI	CPS
0	1	Sand	Orange Brown. Sand with some silcrete.	3339559	0	2	2	50	50
1	2	Silcrete	Orange Brown. Silcrete/calcrete.	3339560	2	6	4	20	50
2	4	Cemented Sand	Orange Brown. Cemented sand.	3339561	6	10	4	20	50
4	12	Sandy Clay	Light Brown. Sandy clay.	3339562	10	12	2	20	50
12	18	Volcanic	Cream. Weathered Gawler Range Volcanics, finly flow banded (tuffaceous?) in part. Generaly green groundmass with round pink feldspars,	3339563	12	14	2	40	50
EOH			frquently brecciated.	3339564	14	16	2	40	50
				3339565	16	18	2	40	50
					EOH				

00073

SAMPLE	Ag	As	Au	Bi	Ce	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Pd	Pt	Th	U	Zn
3339559	-0.1	-1	-1	-0.1	13	4.7	250	10	1.35	0.4	0.51	90	1.9	0.205	10	3.2	-1	-5	2.4	0.51	20
3339560	-0.1	6	-1	0.1	17	4.3	140	9	1.83	0.87	0.56	85	1.7	0.29	11	6.2	-1	-5	4.9	1.01	20
3339561	0.3	4	-1	0.2	20	3.1	95	7	2.32	1.06	0.39	65	1.5	0.36	6	7.9	-1	-5	12	1.25	18
3339562	0.1	-1	-1	0.3	18	4.3	50	9	2.96	1.12	0.64	75	0.4	0.63	8	12	-1	-5	15	1.54	22
3339563	0.1	-1	-1	0.1	85	4.9	42	3	1.98	1.4	0.5	130	1.8	1.82	3	9	-1	-5	21	2.5	55
3339564	-0.1	-1	-1	-0.1	75	3.8	36	3	1.54	1.44	0.45	95	0.8	2.4	-2	9.2	-1	-5	16	2.2	50
3339565	0.3	-1	-1	0.1	80	4.4	28	2	1.35	1.32	0.44	90	0.6	2.24	-2	14	-1	-5	14	2.2	60
SCHEME	IC3M	IC3M	FA3	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	FA3	FA3	IC3M	IC3M	IC3M
DL	0.1	1	1	0.1	0.5	0.2	2	1	0.01	0.001	0.001	5	0.2	0.001	2	0.2	1	5	0.02	0.02	2
UNITS	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppb	ppb	ppm	ppm	ppm
LAB:AMDEL																					

HOLE AC94CW5 CHARLOTTE WELL - EL1974

PROSPECT	PINARY DAM	EASTING	593400(AMG)	COMMENCED	9/11/94	DPO	54357	AIRCORE	53m	OXIDISED TO 27m	CONTRACTOR STRATA
AZIMUTH	-	NORTHING	6546000(AMG)	COMPLETED	9/11/94					WATER TABLE -	DRILLER JOHN/TINY
INCLINATION	90°	ZONE	53	GEOLOGIST	WAS						RIG EXPLORER 200
TOTAL DEPTH	53m	RL	140m								

GEOLOGICAL DESCRIPTION				RESULTS					
From	To	Summary	Detail	Sample No	From	To	Int	SI	CPS
0	3		Orange Brown. Sand with some cemented lumps.	3339566	0	4	4	30	50
3	5		Orange Brown. Sand and clay with some cemented lumps.	3339567	4	7	3	30	50
5	7		Orange Brown. Cemented sand.	3339568	7	10	3	20	50
7	8		Light Brown. Silcrete and sandy clay.	3339569	10	14	4	20	50
8	17		Light Brown. Sandy clay	3339570	14	17	3	20	50
17	19		Light Brown. Sandy clay, ferruginous in part.	3339571	17	19	2	20	50
19	20		Brown. Pisolitic duricrust, pisolites have goethite skins.	3339572	19	20	1	600	50
20	23		Brown. Sandy clay, ferruginous in part.	3339573	20	21	1	200	50
23	25		Brown. Weathered Gawler Range Volcanics. Green groundmass with round pink feldspars.	3339574	21	22	1	20	50
25	27		Brown. Weathered Gawler Range Volcanics. Very clayey. Green groundmass with round pink feldspars. Mn on fractures.	3339575	22	25	3	20	50
27	30		Brown. Mod weathered Gawler Range Volcanics. Green groundmass with round pink feldspars. Mn on fractures.	3339576	25	27	2	20	50
30	37		Yellow Brown. Weathered Gawler Range Volcanics. Very clayey. Green groundmass with round pink feldspars. Mn on fractures.	3339577	27	30	3	20	50
37	39		Brown. Weathered Gawler Range Volcanics. Purple brown groundmass with large feldspars (up to 10mm). Mn on fractures.	3339578	30	32	2	20	50
39	42		Yellow Brown. Weathered flow banded Gawler Range Volcanics. Banding approx 15° to CA. Mn on fractures.	3339579	32	34	2	20	50
42	44		Brown. Brecciated Gawler Range Volcanics.	3339580	34	36	2	20	50
44	45		Yellow Brown. Weathered flow banded Gawler Range Volcanics. Banding parallel to CA. Mn on fractures.	3339581	36	38	2	20	50
45	53		Brown. Weathered flow banded Gawler Range Volcanics. Banding 90° to CA. Mn on fractures.	3339582	38	40	2	20	50
EOH				3339583	40	42	2	20	50
				3339584	42	44	2	20	50
				3339585	44	46	2	20	50
				3339586	46	48	2	20	50
				3339587	48	50	2	20	50
				3339588	50	53	3	20	50
					EOH				

18000

SAMPLE	Ag	As	Au	Bi	Ce	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Pd	Pt	Th	U	Zn
3339566	-0.1	-1	-1	-0.1	7.8	2.1	300	6	1.06	0.35	0.225	60	2.1	0.094	8	3.9	-1	-5	1.64	0.22	14
3339567	-0.1	-1	-1	0.2	21	6.9	200	11	2.34	0.86	0.48	90	1.8	0.27	13	11	-1	-5	8.1	1.88	32
3339568	-0.1	6	-1	0.2	15	3.8	110	8	3	1.06	0.55	85	1.8	0.42	10	9.4	-1	-5	9	1.59	28
3339569	-0.1	4	-1	0.2	15	4.7	55	9	3.18	1.2	0.81	120	1.2	0.67	13	6.9	-1	-5	14	1.92	28
3339570	-0.1	-1	-1	0.2	9.1	3.1	100	7	2.98	0.81	0.83	110	1.2	0.69	8	6.3	1	-5	12	1.65	20
3339571	0.1	-1	-1	0.2	5.8	2	230	8	3.64	0.235	0.385	50	3	0.36	7	4.2	-1	-5	11	1.25	24
3339572	-0.1	8	1	0.2	6.6	2.9	290	6	10.5	0.145	0.265	65	2.7	0.245	6	8.5	-1	-5	9.7	0.9	13
3339573	-0.1	-1	-1	0.2	3.6	1.8	340	7	4.1	0.145	0.355	45	2.1	0.35	5	4.9	-1	-5	6.6	0.84	14
3339574	0.3	-1	-1	0.1	3.5	2.4	260	6	2.64	0.12	0.4	40	2.3	0.405	6	3	-1	-5	4.8	0.73	14
3339575	0.1	-1	1	0.2	28	1.9	80	6	1.8	1.38	0.475	35	1.5	0.275	3	7.1	-1	-5	14	2.4	20
3339576	-0.1	-1	1	0.2	31	1.9	20	4	2.94	1.46	0.59	35	0.9	0.355	-2	5.8	-1	-5	18	2.5	44
3339577	-0.1	-1	-1	-0.1	105	5.1	19	4	5.3	1.64	0.65	65	0.9	0.55	-2	7.9	-1	-5	18	2.8	75
3339578	-0.1	-1	-1	0.1	210	5.9	14	-1	3.68	1.16	0.66	75	0.8	0.72	-2	8.5	-1	-5	24	3.5	65
3339579	0.2	-1	-1	0.2	190	7.4	18	3	5.95	1.36	0.61	140	2.1	1.7	2	8.2	-1	-5	21	4.5	75
3339580	-0.1	-1	1	0.2	140	5.8	26	3	3.16	1.76	0.62	80	0.7	1.52	-2	7	-1	-5	22	3.8	55
3339581	0.1	-1	-1	0.1	155	11	30	3	3.06	1.46	0.67	620	0.7	1.6	-2	8.4	-1	-5	24	4.3	60
3339582	0.1	-1	-1	-0.1	115	38	20	4	2.66	1.74	0.6	2500	0.8	1.72	-2	9.7	-1	-5	18	3.9	65
3339583	-0.1	-1	-1	-0.1	95	10	34	4	2.32	1.34	0.52	1000	1	1.36	-2	18	-1	-5	20	5.5	60
3339584	-0.1	-1	-1	-0.1	90	15	26	3	3.68	1.56	0.74	3250	1.2	1.34	3	11	-1	-5	15	3.6	70
3339585	0.1	-1	-1	-0.1	95	9.5	60	4	2.98	1.4	0.65	1500	1.9	1.94	3	8.6	-1	-5	17	3.1	60
3339586	0.2	-1	-1	-0.1	110	12	30	4	3.2	1.4	0.91	1400	1.5	1.54	3	9.5	-1	-5	15	2.9	65
3339587	0.1	-1	-1	-0.1	90	8.4	18	3	3.76	1.28	1.56	1850	0.8	1.24	-2	11	-1	-5	18	2.9	70
3339588	-0.1	-1	-1	-0.1	100	4.8	15	4	3.02	1.32	1.36	1500	0.5	1.32	-2	17	-1	-5	15	3.3	48
SCHEME	IC3M	IC3M	FA3	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	FA3	FA3	IC3M	IC3M	IC3M
DL	0.1	1	1	0.1	0.5	0.2	2	1	0.01	0.001	0.001	5	0.2	0.001	2	0.2	1	5	0.02	0.02	2
UNITS	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppb	ppb	ppm	ppm	ppm
LAB:AMDEL																					

00082

HOLE AC/DD94CW6 CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	608875(AMG)	Traverse 1 (Local)	COMMENCED	11/11/94	DPO	54357	RC	0-72m	OXIDISED TO	13m	CONTRACTOR	STRATA
AZIMUTH	-	NORTHING	6547750(AMG)	11700 (local)	COMPLETED	18/11/94	LAB	AMDEL	BQ	72-252m	WATER TABLE	20m	DRILLER	JOHN / TINY
INCLINATION	90°	ZONE	53		GEOLOGIST	WAS							RIG	EXPLORER 200
TOTAL DEPTH	252m	RL	135m											

CORE BLOCKS				GEOLOGICAL DESCRIPTION				RESULTS					
From	To	Rec	%rec	From	To	Summary	Detail	Sample No	From	To	Int	SI	CPS
				0.00	6.00		Orange Brown. Sand with some cemented sand & clay	3339589	0.00	4.00	4.00	50	40
				6.00	7.00		Orange Brown. Clay with some cemented sand	3339590	4.00	6.00	2.00	50	40
				7.00	12.00		Orange Brown. Sandy clay	3339591	6.00	10.00	4.00	50	40
				12.00	13.00	Tent Hill Fm?	Orange Brown. Sandy clay with silicified sandstone (Tent Hill Fm?)	3339592	10.00	12.00	2.00	20	40
				13.00	16.00	Tent Hill Fm?	White. Partly silcreted sandstone, fine-med grained.	3339593	12.00	14.00	2.00	200	40
				16.00	18.00	Tent Hill Fm?	White. Qtz, clay sandstone, a bit soft, weathered kaolinitic	3339594	14.00	18.00	4.00	20	40
				18.00	32.00	Tent Hill Fm?	Light Brown. Powdered to a sandy clay. damp (water inject thereafter) at 18m.	3339595	18.00	22.00	4.00	20	40
				32.00	36.00	Tent Hill Fm?	Light Grey. Powdered to a sandy clay.	3339596	22.00	26.00	4.00	20	40
				36.00	37.00	Tent Hill Fm?	Light Brown. Powdered to a sandy clay.	3339597	26.00	30.00	4.00	20	40
				37.00	44.00	Tent Hill Fm?	Light Grey. Powdered to a sandy clay.	3339598	30.00	34.00	4.00	20	40
				44.00	45.00	Tent Hill Fm?	Brown. Powdered to a sandy clay.	3339599	34.00	38.00	4.00	20	40
				45.00	46.00	Tent Hill Fm?	As above, but more sand	3339600	38.00	42.00	4.00	20	40
				46.00	51.00	Tent Hill Fm?	Brown. Harder, a few small chips of sandstone, mainly pulverised to sand. Pandurra?	3339601	42.00	45.00	3.00	20	40
				51.00	57.00	Tent Hill Fm?	Pink Brown. Clayey sandstone, pulverised by hammer.	3339602	45.00	48.00	3.00	20	40
				57.00	60.00	Tent Hill Fm?	Pink Brown. Sandstone pulverised to mostly sand, some clay.	3339603	48.00	52.00	4.00	10	40
				60.00	64.00	Tent Hill Fm?	Light Grey. Fine to med clayey sandstone, poor-mod consolidated, cemented bands/horizons	3339604	52.00	56.00	4.00	10	40
				64.00	68.00	Tent Hill Fm?	Purple Brown. Fine to coarse, poorly sorted, poorly consolidated sandstone ferruginous cemented horizons, pebble bands	3339605	56.00	60.00	4.00	20	40
							Base of unconformity?	3339606	60.00	64.00	4.00	40	40
				68.00	71.00	Pandurra?	Pink Brown. Clayey sandstone. Fine grained with coarse sand - small gritty pebble bands/horizons	3339607	64.00	68.00	4.00	30	40
				71.00	72.00	Pandurra	Light Brown. V. fine to coarse sandstone. Cemented sand lenses/horizons. Cemented fine sandstone bands white-light grey are	3339608	68.00	72.00	4.00	70	40
							contamination from higher up hole.	3339609	72.00	74.00	2.00	10	40
								3339610	74.00	76.00	2.00	10	40
							High water flow limiting penetration. Change to diamond coring at 72m	3339611	76.00	78.00	2.00	10	40
								3339612	78.00	80.00	2.00	10	40
				72.00	72.20	Pandurra	Pandurra Fm - med-coarse gritty, mod consolidated, bedded, x-bedded, Fe stained beds	3339613	80.00	82.00	2.00	10	40
							Fracture at 72.2m	3339614	82.00	84.00	2.00	10	40
72.00	72.40	0.50	125	72.20	73.40	Pandurra	Fine to coarse, graded & cross bedded sandstone, banded (grey, purple, maroon) colouration light tan/orange/red/maroon	3339615	84.00	86.00	2.00	10	40
72.40	73.00	0.65	108	73.40	75.50	Pandurra	Fine to coarse graded sandstone, minor bedding, whispy clay laminations, rare small pebble	3339616	86.00	88.00	2.00	10	40
73.00	75.00	1.75	88				clasts, generally poorly sorted (maroon colour)	3339617	88.00	90.00	2.00	20	40
75.00	75.80	0.70	88	75.50	75.60	Pandurra	Foliated silty mudstone, micaceous bedding planes, finely bedded, (purple brown), mod indurated	3339618	90.00	92.00	2.00	10	40
75.80	78.00	2.10	95	75.60	75.70	Pandurra	Fine-medium, mod sorted, mod-well indurated, rare-minor coarse gritty clasts, bedded (tan, purple, brown)						
78.00	81.00	2.95	98	75.70	77.45	Pandurra	Fine-coarse gritty, matrix supported sandstone, poorly sorted , mod indurated, bedded with minor						
81.00	84.00	2.90	97				irregular fine sandstone and mudstone lenses/horizons. (light grey/brown/orange/purple)						
84.00	87.00	2.85	95	77.45	77.60	Pandurra	Foliated silty mst, interbedded with narrow fine sandstone, poor-mod indurated (brown-orange-purple)						
87.00	90.00	2.90	97	77.60	84.00	Pandurra	Thick, mod-well sorted, graded, med grained-gritty sandstone, mod-well indurated						
							Rare interbedded lenses of mst, or gritty pebble conglomerate (maroon/brown)						
				84.00	87.00	Pandurra	Interbedded, mod-well sorted, fine to coarse sandstone, siltstone and mudstone, thin beds/lenses						
							Minor cross-bedding and grading. Poor-well consolidated (light grey, tan, orange, brown)						
				87.00	89.50	Pandurra	Fine to coarse sandstone. Poorly sorted, poorly bedded, mod-well indurated, thin whispy clay/mst						
							bands throughout. (purple brown-light grey)						
				89.50	90.85	Pandurra	Fine to coarse sandstone, mod-well sorted massive homogeneous sandstone. Rare mst whisps mod-well						
							indurated (purple brown) minor bedding						

HOLE AC/DD94CW6 CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	608875(AMG)	Traverse 1 (Local)	COMMENCED	11/11/94	DPO	54357	RC	0-72m	OXIDISED TO 13m	CONTRACTOR STRATA
AZIMUTH	-	NORTHING	6547750(AMG)	11700 (local)	COMPLETED	18/11/94	LAB	AMDEL	BQ	72-252m	WATER TABLE 20m	DRILLER JOHN / TINY
INCLINATION	90°	ZONE	53		GEOLOGIST	WAS						RIG EXPLORER 200
TOTAL DEPTH	252m	RL	135m									

CORE BLOCKS				GEOLOGICAL DESCRIPTION				RESULTS					
From	To	Rec	%rec	From	To	Summary	Detail	Sample No	From	To	Int	SI	CPS
90.00	93.00	2.90	97	90.85	90.95	Pandurra	Interbedded fine-med sandstone, mudstone, mod indurated, sheared on bedding planes, whispy clay bands (white/brown/purple)	3339619	92.00	94.00	2.00	10	40
93.00	96.00	2.90	97	90.95	92.80	Pandurra	Fine to medium, poorly bedded sandstone, minor coarse gritty graded zone at 91.2-91.4m	3339620	94.00	96.00	2.00	10	40
96.00	99.00	3.00	100				Rare thin siltstone/mudstone bands, banded purple/brown/orange/light tan	3339621	96.00	98.00	2.00	10	40
99.00	102.00	2.95	98	92.80	92.85	Pandurra	Poor-mod consolidated, finely interbedded clayey sandstone, med grained (light brown)	3339622	98.00	100.00	2.00	10	40
102.00	105.00	2.95	98	92.85	94.30	Pandurra	Mod-well consolidated, fine-med grained well sorted, poor to mod bedded sst	3339623	100.00	102.00	2.00	10	40
105.00	108.00	2.95	98				Rare coarse sandy clasts near 94.1m. Colour banded (purple/brown/red/light tan). Rare clayey whisps.	3339624	102.00	104.00	2.00	10	40
108.00	111.00	3.00	100	94.30	94.50	Pandurra	Poor-mod consolidated, clayey v. fine sandstone, with bedding plane shearing (brecciation)	3339625	104.00	106.00	2.00	10	50
111.00	114.00	3.00	100				and thin whispy clayey & gypsiferous bands (purple-brown/red/white)	3339626	106.00	108.00	2.00	10	50
114.00	117.00	3.00	100	94.50	94.90	Pandurra	Fine well consolidated sst interbedded with poorly-mod consolidated sst moderate thin bedding, minor whispy clay horizons.	3339627	108.00	110.00	2.00	10	50
117.00	120.00	3.00	100				Rare coarse sand clasts. Colour banded/mottled (light grey-tan, light brown purple, red)	3339628	110.00	112.00	2.00	10	50
120.00	123.00	3.00	100	94.90	96.75	Pandurra	Fine to small pebble, mod sorted, well consolidated, graded sandstone, minor bedding (purple-brown)	3339629	112.00	114.00	2.00	10	50
				96.75	96.85	Pandurra	Med to coarse poorly sorted sst interbedded with lenses of mudstone/shale. Mod-well consolidated (light grey/orange)	3339630	114.00	116.00	2.00	10	50
				96.85	96.95	Pandurra	V. fine sandy-silty mudstone-shale well bedded-layered. (orange brown)	3339631	116.00	118.00	2.00	10	50
				96.95	97.20	Pandurra	F.-v. coarse, well consoliated, poorly sorted sst porous, minor mst lenses (grey brown)	3339632	118.00	120.00	2.00	10	50
				97.20	98.75	Pandurra	F.-med well consolidated, mod-well sorted sst, moderate bedding. Minor narrow	3339633	120.00	122.00	2.00	10	50
							coarse-v. coarse sandstone horizons, coloured banding (purple grey/maroon/light tan)	3339634	122.00	124.00	2.00	10	50
				98.75	98.80	Fault Pug	Unconsolidated clayey sand - bedding plane fault/or cavity fill (tan-light brown)	3339635	124.00	126.00	2.00	10	50
				98.80	99.30	Pandurra	V. fine to fine silty clayey sandstone. Well consolidated. Well sorted. Minor x-bedding	3339636	126.00	128.00	2.00	10	40
							Laminated, clayey bands toward 99.30m (brown-red-tan)	3339637	128.00	130.00	2.00	10	40
				99.30	105.70	Pandurra	Graded fine to v. coarse interbedded moderately well sorted sandstone, some						
							vague bedding and x-bedding. Colour banded (purple brown-minor red/tan/grey)						
				105.70	105.80	Pandurra	Laminated mst/shale (red brown)						
				105.80	106.80	Pandurra	Med-coarse, mod-well sorted, well consolidted sandstone, rare bedding + x-bedding. Minor						
							fine sandstone-clayey bands (purple, brown)						
				106.80	107.10	Pandurra	Laminated/bedded mudstone/shale, with minor silty sandy bands toward base. (orange brown)						
				107.10	111.00	Pandurra	Fine to coarse, mod-well sorted graded, mod-well consolidated sandstone. Vague bedding and x-bedding. Minor fine silty						
							sandstone lenses/beds. Also minor coarse gritty lenses/beds. Colour zonation within bedding.						
							(light grey-tan/orange/brown/purple)						
				111.00	110.05	Pandurra	Laminated/bedded mudstone/shale (orange/brown)						
				110.05	117.50	Pandurra	Med-coarse, poor-well sorted, graded sandstones. Bedding and minor x-bedding with dispersed narrow v. fine sandstone						
							and siltstone horizons. Banded rare coarse gritty sandstone horizons. Colour zonations with bedding (purple brown/orange						
							brown/light tan/red)						
				117.50	117.60	Pandurra	Laminated mudstone/shale - micaceous (sericitic) (orange brown)						
				117.60	119.30	Pandurra	Med-coarse, mod-sorted, graded sandstone, vague bedding and colour zonation						
							Rare narrow siltstone or gritty sandstone horizons (purple-brown-orange)						
				119.30	120.25	Pandurra	Laminated mod consolidated red brown mudstone						
				120.25	120.60	Pandurra	V. fine-med grained, mod sorted sandstone with narrow interbedded red brown mudstone horizons (grey-purple/-red brown)						
				120.60	122.40	Pandurra	Fine grading to coarse gritty, poor sorted consolidated sandstone. Poor-mod bedding (purple brown). Minor x-bedding and						
							clay horizons						
				122.40	123.60	Pandurra	Laminated moderately fissile. Slightly micaceous, silty, mod consolidated						
							red orange brown mudstone						
				123.60	129.30	Pandurra	Med-coarse poor to mod sorted, graded sandstone. Poor bedding and						

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HOLE AC/DD94CW6 CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	608875(AMG)	Traverse 1 (Local)	COMMENCED	11/11/94	DPO	54357	RC	0-72m	OXIDISED TO	13m	CONTRACTOR	STRATA	
AZIMUTH	-	NORTHING	6547750(AMG)	11700 (local)	COMPLETED	18/11/94	LAB	AMDEL	BQ	72-252m	WATER TABLE	20m	DRILLER	JOHN / TINY	
INCLINATION	90°	ZONE	53		GEOLOGIST	WAS							RIG	EXPLORER 200	
TOTAL DEPTH	252m	RL	135m												

CORE BLOCKS				GEOLOGICAL DESCRIPTION				RESULTS					
From	To	Rec	%rec	From	To	Summary	Detail	Sample No	From	To	Int	SI	CPS
123.00	126.00	3.10	103				x-bedding. Rare siltstone/mudstone band at 127.1m (purple brown)	3339638	130.00	132.00	2.00	10	40
126.00	129.00	3.00	100	129.30	131.40	Pandurra	Fine-med, poor-well sorted, graded silty sandstone, consolidated	3339639	132.00	134.00	2.00	10	40
129.00	132.00	3.00	100				(purple brown)	3339640	134.00	136.00	2.00	10	40
132.00	135.00	2.95	98	131.40	131.41	Pandurra	Laminated, slightly micaceous, consolidated red brown mudstone	3339641	136.00	138.00	2.00	10	40
135.00	138.00	2.95	98	131.41	131.70	Pandurra	Fine-med, mod sorted, consolidated sandstone (purple brown)	3339642	138.00	140.00	2.00	10	50
138.00	141.00	3.00	100	131.70	131.85	Pandurra	Muddy siltstone, fissile & laminated, consolidated (purple brown)	3339643	140.00	142.00	2.00	10	50
141.00	144.00	3.00	100	131.85	133.50	Pandurra	Fine-med, mod sorted, poorly bedded, consolidated sandstone (purple brown)	3339644	142.00	144.00	2.00	10	60
144.00	147.00	2.95	98	133.50	134.50	Pandurra	Interbedded fine silty sandstone and narrow beds of laminated red brown mudstone	3339645	144.00	146.00	2.00	10	60
147.00	150.00	2.95	98				Consolidated, mod-well bedded (purple brown)	3339646	146.00	148.00	2.00	10	50
150.00	153.00	3.05	102	134.50	137.95	Pandurra	Fine-v. coarse, moderately sorted, graded sandstone, consolidated (purple brown)	3339647	148.00	150.00	2.00	10	40
153.00	156.00	2.95	98	137.95	138.00	Pandurra	Laminated slightly micaceous red brown mudstone/shale	3339648	150.00	152.00	2.00	10	40
156.00	159.00	3.00	100	138.00	138.40	Pandurra	Fine-coarse, poor-mod sorted, graded sandstone (purple brown)	3339649	152.00	154.00	2.00	10	40
159.00	162.00	2.95	98	138.40	138.90	Pandurra	Laminated, slightly micaceous, red brown mudstone/shale	3339650	154.00	156.00	2.00	10	40
162.00	165.00	3.00	100	138.90	139.00	Pandurra	Sandy siltstone (grading into sst) (grey orange brown)	3339651	156.00	158.00	2.00	10	40
				139.00	141.30	Pandurra	Fine-v. coarse, poorly sorted sandstone (purple brown)	3339652	158.00	160.00	2.00	10	40
				141.30	141.90	Pandurra	Fine-v. fine silty sandstone, well sorted (purple grey brown)	3339653	160.00	162.00	2.00	10	50
				141.90	142.50	Pandurra	Laminated, slightly micaceous (red brown) mudstone/shale	3339654	162.00	164.00	2.00	10	50
				142.50	144.50	Pandurra	V. fine silty sandstone with thin interbedded mudstone (grey-brown-red)						
				144.50	144.95	Pandurra	V. fine to coarse, micaceous & muddy banded graded sandstone (purple brown)						
				144.95	146.30	Pandurra	Laminated, slightly micaceous, silty banded mudstone/shale (red brown)						
				146.30	150.50	Pandurra	Fine-coarse, poorly sorted, graded sandstone with minor siltstone and						
							mudstone bands/lenses (purple brown)						
				150.50	153.00	Pandurra	Interbedded, well sorted very fine sandstone/siltstone/and laminated						
							mudstone (purple brown/red brown) minor banding of colours						
				153.00	154.20	Pandurra	Fine to coarse, poorly sorted, graded sandstone, minor bedding/x-bedding						
							Rare siltstone horizons (purple brown)						
				154.20	154.22	Pandurra	Laminated brown mudstone						
				154.22	154.70	Pandurra	V. fine to very coarse graded sandstone, poor-mod sorted. Grading to						
							siltstone in part (purple brown)						
				154.70	155.00	Pandurra	Interbanded v. fine sandy siltstone and mudstone, mod-well bedded (grey purple brown)						
				155.00	155.70	Pandurra	V. fine sandy siltstone with minor graded sandy bands (purple brown)						
				155.70	158.70	Pandurra	Fine to very coarse, graded, poor-mod sorted sandstone, rare mst lenses						
							Poor bedding (purple brown)						
				158.70	160.10	Pandurra	V. fine sandstone and siltstone rare mudstone horizons, poorly laminated (purple brown)						
				160.10	160.50	Pandurra	Med to v. coarse, poorly sorted, sandstone, poor-mod bedding small mudstone						
							lenses (purple brown)						
				160.50	161.40	Pandurra	Laminated mudstone interbedded with very fine sandy siltstone (red brown/purple brown)						
				161.40	163.00	Pandurra	V. fine silty sandstone interbanded siltstone. Poor-mod bedding (purple brown)						
				163.00	163.70	Pandurra	Fine to coarse, poorly sorted sandstone (purple brown)						
				163.70	163.75	Pandurra	Laminated mudstone, slightly micaceous (red brown)						
				163.75	164.90	Pandurra	V. fine to coarse poorly sorted graded sandstone, rare mudstone layers						
							and lenses (purple brown)						

HOLE AC/DD94CW6 — CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	608875(AMG)	Traverse 1 (Local)	COMMENCED	11/11/94	DPO	54357	RC	0-72m	OXIDISED TO	13m	CONTRACTOR	STRATA
AZIMUTH	-	NORTHING	6547750(AMG)	11700 (local)	COMPLETED	18/11/94	LAB	AMDEL	BQ	72-252m	WATER TABLE	20m	DRILLER	JOHN / TINY
INCLINATION	90°	ZONE	53		GEOLOGIST	WAS							RIG	EXPLORER 200
TOTAL DEPTH	252m	RL	135m											

CORE BLOCKS				GEOLOGICAL DESCRIPTION				RESULTS					
From	To	Rec	%rec	From	To	Summary	Detail	Sample No	From	To	Int	SI	CPS
165.00	168.00	2.95	98	164.90	164.94	Pandurra	Laminate, slightly micaceous mudstone (red brown)	3339655	164.00	166.00	2.00	10	40
168.00	171.00	3.00	100	164.94	169.20	Pandurra	Very fine to v. coarse, graded, poor-mod well sorted sandstone vague bedding	3339656	166.00	168.00	2.00	10	40
171.00	174.00	2.95	98				and x-bedding. Rare mudstone lenses (purple brown)	3339657	168.00	170.00	2.00	10	40
174.00	177.00	3.00	100	169.20	169.30	Pandurra	Interbedded laminated slightly micaceous mudstone with a central lense	3339658	170.00	172.00	2.00	10	40
177.00	180.00	3.00	100				of poorly sorted med-coarse sandstone (red brown)	3339659	172.00	174.00	2.00	10	40
180.00	183.00	3.05	102	169.30	171.00	Pandurra	Med-coarse, mod sorted, bedded & x-bedded, homogeneous sandstone (purple brown)	3339660	174.00	176.00	2.00	10	40
183.00	186.00	2.95	98	171.00	173.80	Pandurra	V. fine-v. coarse, poor-mod sorted, interbedded and graded sandstone mod bedded	3339661	176.00	178.00	2.00	10	40
186.00	189.00	2.95	98				and x-bedded, rare mudstone lenses & horizons (purple brown)	3339662	178.00	180.00	2.00	10	40
189.00	192.00	3.05	102	173.80	173.90	Pandurra	Laminated, slightly micaceous mudstone (red brown)	3339663	180.00	182.00	2.00	10	40
192.00	195.00	3.00	100	173.90	177.40	Pandurra	Fine-v. coarse, poorly sorted, interbedded and graded sandstone, poor bedding	3339664	182.00	184.00	2.00	10	40
195.00	198.00	2.95	98				and x-bedding (purple brown)	3339665	184.00	186.00	2.00	10	40
198.00	201.00	2.95	98	177.40	177.90	Pandurra	Very fine sandstone and siltstone, well bedded with bands and lenses of	3339666	186.00	188.00	2.00	10	40
201.00	204.00	3.10	103				mudstone (purple brown & red)	3339667	188.00	190.00	2.00	10	40
204.00	207.00	3.00	100	177.90	183.10	Pandurra	Fine to v. coarse gritty poorly sorted graded and interbedded sandstone	3339668	190.00	192.00	2.00	10	40
							Rare siltstone and mudstone lenses/horizons. Moderately well bedded	3339669	192.00	194.00	2.00	10	40
							in parts (brown-brown purple)	3339670	194.00	196.00	2.00	10	40
				183.10	183.30	Pandurra	Laminated slightly micaceous mudstone (red brown)	3339671	196.00	198.00	2.00	10	40
				183.30	184.50	Pandurra	Interbedded v. coarse gritty poorly sorted sandstone and v. fine-med silty	3339672	198.00	200.00	2.00	10	40
							sandstone. Mod bedding, minor siltstone/mudstone lenses (brown)	3339673	200.00	202.00	2.00	10	40
				184.50	187.30	Pandurra	Interbedded v. coarse gritty sandstone poorly sorted and laminated/	3339674	202.00	204.00	2.00	10	40
							interbedded "tiger striped" v. fine sandy siltstone and mudstone (red)	3339675	204.00	206.00	2.00	10	40
							(brown red) well bedded. Mudstone lenses						
				187.30	195.60	Pandurra	Med-very coarse gritty (almost small pebbly) sandstone. Poorly sorted						
							graded bedding, poor bedding/x-bedding. Some med grained						
							sandstone interbeds. Minor/rare red mudstone lenses (brown)						
				195.60	195.90	Pandurra	Fine-coarse, poor-mod sorted, mod bedded sandstone with thin						
							lenses/horizons of red siltstone-mudstone interbedded (brown, red)						
				195.90	196.80	Pandurra	Med-v. coarse gritty sandstone, poorly sorted, poorly graded (brown)						
				196.80	197.80	Pandurra	Interbanded coarse gritty sandstone siltstone, and red mudstone "tiger stripe"						
							Well bedded, poor-well sorted (brown, red, light tan)						
				197.80	197.90	Pandurra	Laminated mudstone (red brown) rare mica (and carboniferous material)						
				197.90	201.12	Pandurra	Fine to very coarse gritty graded sandstone with moderate bedding						
							x-bedding, poor-mod sorted, rare mudstone/siltstone/& arkose						
							sandstone beds lenses very thin (brown grey red)						
				201.12	201.45	Pandurra	Laminated mudstone (red brown) rare micaceous material						
				201.45	204.10	Pandurra	Fine-v. coarse massive graded poorly sorted sandstone rare red						
							mudstone lenses (brown)						
				204.10	204.40	Pandurra	Gritty poorly sorted, v. small pebble conglomerate (graded) (grey brown)						
				204.40	205.15	Pandurra	Med-coarse, well bedded, graded poor-mod sorted sandstone with						
							rare siltstone and rare thin arkose sandstone horizons, rare mudstone						
							laminations (brown)						
				205.15	205.30	Pandurra	Finely interbedded, v. fine sandy siltstone and mudstone ("tiger striped")						

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HOLE AC/DD94CW6 CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	608875(AMG)	Traverse 1 (Local)	COMMENCED	11/11/94	DPO	54357	RC	0-72m	OXIDISED TO 13m
AZIMUTH	-	NORTHING	6547750(AMG)	11700 (local)	COMPLETED	18/11/94	LAB	AMDEL	BQ	72-252m	WATER TABLE 20m
INCLINATION	90°	ZONE	53		GEOLOGIST	WAS					
TOTAL DEPTH	252m	RL	135m								

CONTRACTOR	STRATA
DRILLER	JOHN / TINY
RIG	EXPLORER 200

CORE BLOCKS				GEOLOGICAL DESCRIPTION				RESULTS					
From	To	Rec	%rec	From	To	Summary	Detail	Sample No	From	To	Int	SI	CPS
207.00	210.00	2.95	98				(red brown grey)	3339676	206.00	208.00	2.00	10	40
210.00	213.00	3.50	117	205.30	206.05	Pandurra	Fine to coarse poorly sorted, massive, poorly bedded sandstone (brown)	3339677	208.00	210.00	2.00	10	40
213.00	216.00	3.00	100	206.05	206.65	Pandurra	Med to v. coarse gritty, poorly sorted massive sandstone (brown)	3339678	210.00	212.35	2.35	10	40
216.00	219.00	3.00	100	206.65	206.80	Pandurra	Interbedded fine-coarse sandstone, siltstone, mudstone, poor-mod bedding	3339679	212.35	214.00	1.65	10	40
219.00	222.00	3.00	100				x-bedding, 1cm mudstone layer at base (brown-red-light grey)	3339680	214.00	216.00	2.00	10	40
222.00	225.00	3.00	100	206.80	207.80	Pandurra	Fine to coarse, poorly sorted, graded, poor-mod bedded sandstone, narrow	3339681	216.00	218.00	2.00	10	40
225.00	228.00	3.00	100				bands of coarse gritty sand-small pebbles (brown)	3339682	218.00	220.00	2.00	10	40
228.00	231.00	3.00	100	207.80	208.10	Pandurra	Laminated, slightly micaceous mudstone (red brown)	3339683	220.00	222.00	2.00	10	40
231.00	234.00	3.00	100	208.10	208.80	Pandurra	Med to v. coarse poorly sorted, graded, poor-mod bedded sandstone, thin	3339684	222.00	224.00	2.00	10	40
234.00	237.00	3.05	102				arkose horizons (brown, light tan)	3339685	224.00	226.00	2.00	10	50
237.00	240.00	3.05	102	208.80	208.95	Pandurra	V. fine-med silty sandstone ("tiger striped") mod x-bedding (brown-red brown)	3339686	226.00	228.00	2.00	10	40
240.00	243.00	3.05	102	208.95	209.15	Pandurra	Laminated, slightly silty mudstone, well bedded, (red brown)	3339687	228.00	230.00	2.00	10	40
243.00	246.00	3.01	100	209.15	209.60	Pandurra	Interbedded v. fine-med poorly sorted sandstone, and sandy siltstone. Good	3339688	230.00	232.00	2.00	10	40
							x-bedding ("tiger striped") (red brown-light cream)	3339689	232.00	234.00	2.00	10	40
				209.60	210.20	Pandurra	Interbedded arkose, qtz sandstone and rare siltstone, fine-v. coarse grained	3339690	234.00	236.00	2.00	10	40
							poor-mod sorted poor-mod bedding (brown, cream, red)	3339691	236.00	238.00	2.00	10	40
				210.20	210.40	Pandurra	Interbedded fine-med poor sorted sandstone and sandy siltstone ("tiger stripe"	3339692	238.00	240.00	2.00	10	40
							x-bedded) (brown, red) finely interbedded	3339693	240.00	242.00	2.00	10	40
				210.40	210.95	Pandurra	Med to v. coarse, poorly sorted graded bedded sandstone. Arkose	3339694	242.00	244.00	2.00	10	40
							toward base (brown, cream)	3339695	244.00	246.00	2.00	10	40
				210.95	212.25	Pandurra	Finely interbedded fine to med, sandstone and sandy siltstone, ("tiger stripe")						
							Mod-good bedding/x-bedding. Thin arkose bands toward base						
							(brown-red)						
				212.25	212.35	Pandurra	Laminated mudstone (red brown)						
				212.35	226.09	Pandurra	Interbedded med-v. coarse gritty (even small pebble) poorly sorted						
							graded sandstone, grit conglomerate. Arkose in composition.						
							Ferruginous quartzose banded. Interbanded with thin laminated						
							red mudstone horizons. Poor to good bedding (red brown/cream)						
				226.09	226.25	Pandurra	Laminated mudstone (red brown) interbedded with thin siltstone						
							well bedded						
				226.25	227.85	Pandurra	Fine to coarse well bedded mod sorted, arkosic sandstone & grit						
							Rare to minor v. coarse gritty lenses rare interbedded siltstone						
							and mudstone laminations. Bedding well defined by Fe staining (pink/red, cream)						
				227.85	228.00	Pandurra	Laminated silty mudstone (red brown)						
				228.00	228.45	Pandurra	V. finely bedded/x-bedded/interbedded siltstone and fine to medium						
							arkose sandstone (pink-light cream grey)						
				228.45	228.80	Pandurra	Laminated silty mudstone (red brown)						
				228.80	231.08	Pandurra	Interbedded very fine to very coarse poor to mod sorted, well bedded						
							and x-bedded arkosic sandstone. Minor interbedded siltstone and						
				231.08	231.42	Pandurra	mudstone laminations. Bedding well defined by colour (pink, red, cream grey)						
				231.42	246.70	Pandurra	Laminated mudstone interbedded with thin siltstone (red brown grey)						
							Interbedded, well bedded and x-bedded fine to coarse moderately						

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HOLE AC/DD94CW6 — CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	608875(AMG) Traverse 1 (Local)	COMMENCED	11/11/94	DPO	54357	RC	0-72m	OXIDISED TO	13m	CONTRACTOR	STRATA
AZIMUTH	-	NORTHING	6547750(AMG) 11700 (local)	COMPLETED	18/11/94	LAB	AMDEL	BQ	72-252m	WATER TABLE	20m	DRILLER	JOHN / TINY
INCLINATION	90°	ZONE	53	GEOLOGIST	WAS							RIG	EXPLORER 200
TOTAL DEPTH	252m	RL	135m										

CORE BLOCKS				GEOLOGICAL DESCRIPTION				RESULTS					
From	To	Rec	%rec	From	To	Summary	Detail	Sample No	From	To	Int	SI	CPS
246.00	249.00	3.00	100				sorted sandstone/siltstone/and mudstone. Beds vary and are	3339696	246.00	248.00	2.00	10	40
249.00	252.00	3.00	100				commonly 5-20cm thick and grade between each other	3339697	248.00	250.00	2.00	10	40
252.00	EOH						Bedding is well detailed by ferruginous colouration	3339698	250.00	252.00	2.00	10	40
							amongst interbedded units. Mudstones are commonly						
							laminated and are slightly micaceous (pink, light grey-cream, orange brown)						
							Mst band at 245.5m (20cm)						
				246.70	247.50		Interbedded laminated mudstone and siltstone, well bedded (red brown)						
				247.50	252.00		Interbedded, well bedded and x-bedded, fine to coarse moderately sorted						
				EOH			sandstone/siltstone/mudstone. Beds vary in thickness but are						
							commonly 5-20cm thick and grade or are truncated. Bedding						
							is well detailed by ferruginous colouration amongst						
							interbedded units. Mudstones are commonly laminated and						
							are slightly micaceous (pink-light grey cream brown)						
							arkose bands						
							No Gawler Range Volcanics intersected						

000083

Sample No	From	To	Ag	As	Au	Bi	Ce	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Th	U	Zn
3339589	0	4	-0.1	-1	-1	-0.1	17	3.3	240	8	1.08	0.295	0.59	80	1.4	0.135	8	5.3	3	0.53	22
3339590	4	6	-0.1	-1	-1	0.1	50	9.9	220	10	1.01	0.205	0.24	80	1.7	0.12	13	11	5.6	2.6	16
3339591	6	10	0.8	6	-1	0.3	24	4.8	130	11	2	0.74	0.51	110	3.5	0.425	10	13	9.4	2.3	30
3339592	10	12	0.7	10	-1	0.3	17	3.7	160	11	2.24	0.66	0.395	65	2.1	0.43	9	10	8.4	2.1	22
3339593	12	14	0.2	-1	-1	0.3	5.9	4.1	390	3	1.97	0.285	0.18	60	1.1	0.315	11	9.8	5.1	2.7	28
3339594	14	18	2.7	4	-1	0.1	26	1.8	300	17	1.35	1	0.14	120	3.3	0.395	7	11	5.7	1.22	24
3339595	18	22	-0.1	-1	-1	0.1	18	2.7	360	9	0.91	1.28	0.098	100	1.3	0.465	9	16	5.1	0.99	18
3339596	22	26	-0.1	4	-1	0.2	20	4.2	270	9	1.01	1.7	0.078	160	3.3	0.365	9	17	5	1.28	40
3339597	26	30	-0.1	-1	-1	0.1	25	3	320	10	0.94	1.68	0.068	150	1.6	0.225	10	15	9.1	1.56	19
3339598	30	34	0.1	-1	-1	0.2	35	3.2	320	6	0.75	2.2	0.08	150	4.2	0.235	13	19	12	1.92	22
3339599	34	38	-0.1	-1	-1	0.1	25	2.7	440	6	0.84	1.72	0.09	150	1.3	0.38	6	15	8.3	1.86	18
3339600	38	42	-0.1	-1	1	-0.1	17	2.6	330	4	0.67	1.9	0.066	120	2.7	0.245	5	15	5.2	0.97	14
3339601	42	45	-0.1	-1	-1	-0.1	27	3.1	380	7	0.84	1.9	0.066	130	1.3	0.33	5	14	7.7	1.43	14
3339602	45	48	-0.1	-1	-1	0.1	28	3.1	320	10	0.92	1.56	0.084	110	2.9	0.485	8	8.6	7.9	1.95	14
3339603	48	52	-0.1	4	1	0.1	34	3.9	230	14	0.89	1.8	0.14	150	0.9	0.85	11	12	9.6	3.2	30
3339604	52	56	-0.1	-1	1	0.1	29	4.8	250	10	0.87	1.82	0.084	160	3.2	0.305	13	12	7.8	2.3	26
3339605	56	60	-0.1	-1	-1	0.2	120	3.8	280	11	1.05	1.68	0.11	160	3.5	0.44	14	14	26	3.7	26
3339606	60	64	-0.1	-1	1	-0.1	15	1.7	260	8	0.76	1.54	0.094	70	1.6	0.45	3	5.7	4.5	0.91	9
3339607	64	68	-0.1	-1	-1	-0.1	15	1.4	290	6	0.8	1.04	0.105	70	0.9	0.355	6	4.8	5.3	1.13	20
3339608	68	72	-0.1	-1	-1	-0.1	20	2.8	350	6	0.87	1.82	0.115	95	2.7	0.61	8	9.2	5.4	1.31	20
3339609	72	74	-0.1	4	-1	0.1	42	4.6	320	18	0.96	1.5	0.06	800	0.9	0.285	10	9.6	11	2.8	24
3339610	74	76	-0.1	8	-1	0.2	65	4.6	320	16	2.04	2.04	0.12	1950	2.5	0.41	11	12	15	1.7	26
3339611	76	78	-0.1	6	-1	0.2	50	4.7	340	19	2.28	1.78	0.125	1300	0.8	0.375	13	21	9.7	2.1	32
3339612	78	80	-0.1	4	-1	0.2	60	7.1	340	12	1.95	2.06	0.1	1150	2.9	0.4	19	16	15	1.85	24
3339613	80	82	0.3	4	-1	0.2	55	5.7	390	14	2.08	1.9	0.098	1300	1.2	0.34	17	14	11	1.56	24
3339614	82	84	-0.1	4	-1	0.2	55	5.5	350	14	1.9	2.02	0.098	1600	3	0.39	22	14	12	1.97	24
3339615	84	86	-0.1	6	-1	0.2	55	6.8	400	16	1.47	1.88	0.092	800	1.2	0.375	16	14	12	2.8	22
3339616	86	88	0.1	-1	-1	0.1	47	7.2	380	17	1.64	1.96	0.086	1150	3.2	0.385	18	11	11	1.72	19
3339617	88	90	-0.1	4	-1	0.1	44	7.5	370	13	1.76	1.82	0.078	1450	1	0.355	13	12	12	1.5	28
3339618	90	92	-0.1	-1	-1	0.2	55	7.4	370	11	1.68	2	0.092	1050	3.3	0.405	23	14	13	1.81	22

00083

Sample No	From	To	Ag	As	Au	Bi	Ce	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Th	U	Zn
3339619	92	94	-0.1	-1	-1	0.2	60	7	350	16	1.84	1.64	0.098	780	1.1	0.395	19	13	14	2.1	22
3339620	94	96	-0.1	4	-1	0.2	65	7	290	16	2.06	1.7	0.12	760	2.2	0.355	15	14	15	2.9	28
3339621	96	98	-0.1	4	-1	0.2	60	6.1	320	13	1.77	1.66	0.115	580	0.7	0.37	16	14	13	1.87	22
3339622	98	100	1	4	-1	0.2	55	5.3	250	16	1.56	2.2	0.11	640	2.7	0.34	16	13	15	2.9	28
3339623	100	102	-0.1	-1	-1	0.2	75	6.3	360	17	1.92	1.88	0.11	660	0.9	0.385	18	16	22	3.1	24
3339624	102	104	-0.1	6	-1	0.3	60	7.6	290	16	1.98	1.78	0.135	1150	2.1	0.335	17	16	16	3.4	32
3339625	104	106	0.2	6	-1	0.4	85	10	300	24	2.84	1.82	0.135	1300	0.8	0.35	22	22	19	3.1	32
3339626	106	108	-0.1	4	-1	0.4	90	10	240	26	2.8	1.98	0.19	1150	2.7	0.34	34	20	20	3.6	44
3339627	108	110	-0.1	-1	-1	0.3	70	7.4	320	17	2.22	1.7	0.12	560	1.2	0.33	21	14	18	4.6	34
3339628	110	112	-0.1	4	-1	0.4	85	11	270	17	2.16	1.76	0.135	520	3.3	0.34	30	19	25	4.2	36
3339629	112	114	0.2	-1	1	0.3	75	8.2	330	13	1.89	1.74	0.096	800	1.1	0.305	29	15	14	1.93	26
3339630	114	116	-0.1	-1	-1	0.3	65	6.1	340	14	1.89	1.98	0.088	420	2.8	0.305	19	14	12	1.77	26
3339631	116	118	-0.1	-1	-1	0.2	80	5.3	320	13	1.63	1.9	0.094	480	0.5	0.3	12	11	18	1.81	32
3339632	118	120	-0.1	6	-1	0.4	70	10	240	30	2.88	2.66	0.25	1400	2.3	0.33	27	16	14	3.6	75
3339633	120	122	0.4	6	-1	0.4	65	13	240	30	3.1	1.98	0.17	600	1.2	0.34	34	16	15	4.3	50
3339634	122	124	0.5	8	-1	0.7	125	18	120	55	3.9	1.84	0.34	780	1.5	0.275	35	42	29	8.3	90
3339635	124	126	-0.1	8	1	0.3	85	10	260	26	2.46	1.84	0.11	1250	1	0.35	32	18	18	5.7	34
3339636	126	128	-0.1	8	-1	0.3	90	11	250	19	2.5	1.94	0.105	740	2.6	0.34	21	17	18	2.4	32
3339637	128	130	-0.1	6	-1	0.5	120	9.5	340	22	2.76	1.76	0.1	960	1.2	0.285	10	21	18	10	48

00090

Sample No	From	To	Ag	As	Au	Bi	Ce	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Th	U	Zn
3339638	130	132	-0.1	8	-1	0.5	105	12	240	24	3.1	2.02	0.16	800	3	0.28	13	23	27	3.6	60
3339639	132	134	-0.1	6	-1	0.5	90	11	230	26	3.22	2.18	0.19	1400	1	0.29	13	22	24	3.6	50
3339640	134	136	-0.1	12	-1	0.6	85	12	180	30	3.72	1.96	0.185	860	2.2	0.3	13	22	22	4.6	60
3339641	136	138	-0.1	10	-1	0.5	90	12	230	30	3.58	1.88	0.16	720	0.9	0.315	13	22	21	3	48
3339642	138	140	-0.1	10	-1	0.6	90	14	150	38	3.88	1.78	0.275	880	2	0.27	16	28	22	3.6	75
3339643	140	142	-0.1	14	-1	0.4	85	11	210	30	3.46	1.84	0.175	700	0.7	0.29	12	20	23	3.9	50
3339644	142	144	-0.1	14	-1	0.7	110	16	95	44	4.36	1.78	0.35	1350	1.4	0.235	18	26	28	5	90
3339645	144	146	-0.1	14	-1	0.8	120	17	100	50	4.56	1.8	0.36	840	0.7	0.215	19	21	29	4.7	100
3339646	146	148	-0.1	12	-1	0.7	105	13	120	36	4.2	2	0.265	720	1.6	0.225	14	23	22	5.3	70
3339647	148	150	-0.1	12	-1	0.4	60	11	210	28	3.46	1.74	0.145	760	0.7	0.255	13	17	13	3.1	50
3339648	150	152	-0.1	18	-1	0.7	95	15	140	36	3.92	1.9	0.25	1600	2.1	0.235	18	29	23	5.5	70
3339649	152	154	-0.1	12	-1	0.4	75	11	160	26	3.08	1.7	0.175	640	0.6	0.26	12	21	22	3	55
3339650	154	156	-0.1	12	-1	0.4	85	12	180	26	3.2	1.9	0.175	800	1.8	0.26	12	25	21	3.1	55
3339651	156	158	-0.1	8	-1	0.3	65	9.2	310	20	2.78	1.56	0.105	1500	0.8	0.265	10	21	13	2.4	36
3339652	158	160	-0.1	10	1	0.5	120	14	190	30	3.6	1.58	0.195	1250	2.2	0.29	16	27	21	3.2	55
3339653	160	162	-0.1	12	-1	0.5	105	15	200	34	3.76	1.42	0.25	900	0.8	0.265	17	32	29	6.4	65
3339654	162	164	-0.1	10	-1	0.4	75	11	220	26	3.52	1.88	0.17	1500	2.2	0.27	13	26	19	2.7	44

00091

Sample No	From	To	Ag	As	Au	Bi	Ce	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Th	U	Zn
3339655	164	166	-0.1	8	-1	0.4	75	11	310	24	2.88	1.46	0.145	1100	0.9	0.305	13	33	22	2.6	36
3339656	166	168	-0.1	12	-1	0.3	65	13	270	24	3.24	1.52	0.14	1600	2.4	0.335	13	35	15	5.1	38
3339657	168	170	-0.1	12	-1	0.5	95	16	200	32	3.84	1.58	0.225	1600	0.7	0.32	17	43	28	5	55
3339658	170	172	-0.1	8	-1	0.4	85	14	290	24	3.7	1.74	0.14	1100	2.4	0.33	14	38	20	3.2	36
3339659	172	174	-0.1	12	-1	0.4	90	12	180	28	2.86	1.5	0.195	4250	0.6	0.285	13	30	24	3.8	48
3339660	174	176	-0.1	10	-1	0.2	55	10	290	20	2.7	1.66	0.12	2100	2.1	0.285	11	29	14	2.2	32
3339661	176	178	-0.1	14	-1	0.4	75	15	280	30	3.66	1.78	0.22	2550	0.8	0.325	17	36	22	4.1	55
3339662	178	180	-0.1	8	-1	0.2	55	9.1	300	16	2.3	1.64	0.12	1450	2.2	0.29	10	26	15	1.89	26
3339663	180	182	-0.1	12	-1	0.3	70	11	290	19	2.68	1.64	0.13	2300	0.8	0.26	12	34	19	3	36
3339664	182	184	-0.1	8	-1	0.3	70	12	250	22	2.7	2.1	0.21	2950	2.1	0.3	14	48	18	2.9	46
3339665	184	186	-0.1	10	-1	0.2	70	10	170	17	1.76	2.16	0.13	3250	0.7	0.28	11	23	20	3.2	34
3339666	186	188	-0.1	14	-1	0.4	70	12	210	22	2.38	2.14	0.17	7800	2.4	0.295	14	28	17	3	32
3339667	188	190	-0.1	8	-1	0.1	44	9.1	350	11	1.97	1.68	0.098	1400	1	0.335	10	17	10	1.34	20
3339668	190	192	-0.1	10	-1	0.2	60	9	270	12	1.87	1.86	0.125	5300	2.4	0.335	10	25	12	1.86	22
3339669	192	194	-0.1	6	1	0.2	45	8.4	340	11	1.98	1.92	0.1	1750	1	0.305	10	22	9.8	1.44	19
3339670	194	196	-0.1	10	-1	0.2	70	8.5	280	13	2.02	1.96	0.12	2900	2.6	0.295	10	21	13	2.1	22
3339671	196	198	-0.1	10	-1	0.2	60	9.1	260	14	1.97	1.54	0.14	2400	0.8	0.315	11	25	14	3.1	26
3339672	198	200	-0.1	10	-1	0.2	65	8.1	250	16	1.91	1.6	0.125	1850	2	0.32	10	22	14	2.3	24
3339673	200	202	-0.1	10	-1	0.4	85	14	260	24	3.12	1.7	0.255	3900	1	0.305	20	34	18	3.7	48
3339674	202	204	-0.1	-1	-1	0.1	37	6.2	330	11	1.81	1.62	0.088	1700	2.4	0.315	8	17	6.7	0.92	14
3339675	204	206	-0.1	6	-1	0.2	70	8.2	270	13	1.89	1.8	0.14	3700	0.7	0.295	10	27	16	1.98	26

00092

Sample No	From	To	Ag	As	Au	Bi	Ce	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Th	U	Zn
3339676	206	208	-0.1	10	-1	0.3	90	9.4	240	17	2.5	1.7	0.185	1500	2.2	0.29	14	29	17	4.2	34
3339677	208	210	-0.1	12	-1	0.3	80	10	140	20	2.64	2.38	0.165	2450	0.8	0.28	16	47	18	4.6	40
3339678	210	212.35	-0.1	8	-1	0.2	70	6.6	150	15	1.92	1.86	0.16	2000	1.5	0.275	9	21	19	2.2	30
3339679	212.35	214	-0.1	-1	-1	-0.1	28	4.6	320	8	1.07	1.76	0.098	400	1	0.26	9	17	8.4	1.3	14
3339680	214	216	-0.1	-1	-1	0.1	38	4.4	240	9	1.09	1.88	0.1	350	2.4	0.3	7	21	11	2.1	15
3339681	216	218	-0.1	-1	-1	0.1	49	4.1	230	10	1.04	2.1	0.1	660	0.9	0.28	6	17	8.2	4.3	16
3339682	218	220	-0.1	-1	-1	0.1	28	3.9	230	17	1.07	2.04	0.11	240	2.6	0.325	6	22	9	1.43	15
3339683	220	222	-0.1	-1	-1	-0.1	23	3.4	290	6	0.85	1.54	0.084	180	0.8	0.26	5	17	7.7	1.5	11
3339684	222	224	-0.1	-1	-1	0.1	28	3.6	280	9	0.89	1.6	0.105	180	2	0.31	4	18	11	1.18	15
3339685	224	226	-0.1	-1	1	0.2	49	3.7	200	9	1	1.74	0.13	240	1.6	0.28	3	21	13	2.3	19
3339686	226	228	-0.1	-1	-1	0.2	55	4.4	170	11	1.52	1.58	0.18	320	2	0.27	5	25	15	2.1	30
3339687	228	230	-0.1	-1	-1	0.3	80	5.7	100	11	1.48	2.22	0.225	500	1.6	0.26	8	27	19	2.7	36
3339688	230	232	-0.1	-1	-1	0.2	65	4.7	140	15	1.56	2	0.22	520	1.6	0.265	6	24	16	2.4	36
3339689	232	234	-0.1	-1	-1	0.2	55	4.3	130	11	1.31	2.12	0.185	320	1.7	0.26	5	23	15	2.4	32
3339690	234	236	-0.1	-1	-1	0.2	55	4.6	160	12	1.26	2.2	0.175	340	1.8	0.255	6	24	12	3.1	36
3339691	236	238	-0.1	-1	-1	0.2	50	4.8	120	14	1.52	2.24	0.205	450	1.8	0.27	6	27	16	2.9	32
3339692	238	240	-0.1	4	-1	0.1	55	3.5	130	9	0.85	1.6	0.15	560	1.5	0.285	4	27	11	3	24
3339693	240	242	-0.1	-1	-1	0.2	65	4.6	130	13	1.34	1.64	0.185	320	1.7	0.265	6	27	15	3	34
3339694	242	244	-0.1	4	-1	0.3	60	5	110	12	1.64	1.78	0.26	420	1.5	0.265	6	27	16	2.7	42
3339695	244	246	-0.1	4	-1	0.2	90	4.8	95	12	1.45	2.52	0.23	600	1.5	0.25	6	29	23	2.9	40

00093

Sample No	From	To	Ag	As	Au	Bi	Ce	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Th	U	Zn
3339696	246	248	-0.1	-1	-1	0.2	75	4.6	110	13	1.84	2.16	0.28	310	1.3	0.25	7	22	19	3	50
3339697	248	250	-0.1	4	1	0.2	65	3.8	160	11	1.38	1.76	0.135	520	1.8	0.255	5	26	15	2.3	28
3339698	250	252	-0.1	-1	-1	0.1	32	2.7	220	10	1.02	2.34	0.105	140	2.3	0.255	5	18	11	1.33	16
SCHEME			IC3M	IC3M	AA9	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M
DL			0.1	1	1	0.1	0.5	0.2	2	1	0.01	0.001	0.001	5	0.2	0.001	2	0.2	0.02	0.02	2
UNITS			ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm

HOLE RC94CW7 — CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	608800(AMG)	Traverse 1(Local)	COMMENCED	29/11/94	DPO	54320	RC	0-119m	OXIDISED TO	7m	CONTRACTOR	STRATA
AZIMUTH	-	NORTHING	6547875(AMG)	17150(Local)	COMPLETED	30/11/94					WATER TABLE	51m	DRILLER	MARTY / TREVOR
INCLINATION	90°	ZONE	53		GEOLOGIST	DWW							RIG	EXPLORER 200
TOTAL DEPTH	119m	RL	142m											

GEOLOGICAL DESCRIPTION						RESULTS (ppm)														
From	To	Summary	Detail	SI	CPS	Sample No	From	To	Int	Au	Ag	As	Co	Cr	Cu	Fe %	Mn	Ni	Pb	Zn
0	1	SAND	Br/Rd med. Sand, mod. qtz, clay, Fe	170	50	3942620	0	4	4	<0.02	<1	4	3	12	14	1.63	65	8	15	15
1	2	SAND	Br/Rd med. Sand, mod. qtz, clay, Fe, consol. Sst	60	50	3942621	4	8	4	<0.02	<1	<3	<2	9	<2	1.21	15	4	<5	2
2	3	SANDSTONE	Br/Rd weath. f/med. qtz Sst, abund. Fe	30	50	3942622	8	12	4	<0.02	<1	<3	3	120	<2	0.43	25	4	<5	<2
3	4	SANDSTONE	Br/Rd weath. f/med. qtz Sst, abund. Fe, tr. qtz	30	50	3942623	12	16	4	<0.02	<1	<3	8	44	<2	0.35	65	8	5	2
4	5	SANDSTONE	Br/Rd weath. f/med. qtz Sst, abund. Fe, tr. qtz	20	65	3942624	16	20	4	<0.02	<1	<3	7	44	<2	0.28	55	8	10	2
5	6	SANDSTONE	Ye/Br weath. med. qtz Sst, ang-rd qtz, mod. sorting, Fe	20	65	3942625	20	24	4	<0.02	<1	<3	3	24	5	0.59	80	8	15	7
6	7	SANDSTONE	Ye. weath. med. qtz Sst, ang-rd qtz, mod. sorting	15	65	3942626	24	28	4	<0.02	<1	<3	<2	85	3	0.44	100	9	5	4
7	8	SAND	Ye/Wh med/c qtz Sand, poor sorting, subrd qtz, mod. consol.	15	65	3942627	28	32	4	<0.02	<1	4	<2	60	7	0.52	220	8	10	5
8	9	SAND	Ye/Wh med/c qtz Sand, poor sorting, subrd qtz, mod. consol.	15	55	3942628	32	36	4	<0.02	<1	<3	2	75	4	0.40	55	7	5	5
9	10	SAND	Ye/Wh med/c qtz Sand, poor sorting, subrd qtz, mod. consol.	15	55	3942629	36	40	4	<0.02	<1	4	4	48	7	0.76	160	6	10	13
10	11	SAND	Ye/Wh med/c qtz Sand, poor sorting, subrd qtz, mod. consol.	10	55	3942630	40	44	4	<0.02	<1	4	3	75	8	1.36	2450	7	10	13
11	12	SAND	Wh. f/med. qtz Sand, mod. sorting, rd qtz, weak consol.	10	50	3942631	44	48	4	<0.02	<1	<3	3	70	9	1.13	1650	6	10	11
12	13	SAND	Wh. f/med. qtz Sand, mod. sorting, rd qtz, weak consol.	10	50	3942632	48	52	4	<0.02	<1	6	5	50	13	1.88	1650	8	15	19
13	14	SAND	Wh. f/med. qtz Sand, mod. sorting, rd qtz, weak consol.	10	50	3942633	52	56	4	<0.02	<1	4	5	85	10	1.84	1400	9	15	14
14	15	SAND	Wh. f/med. qtz Sand, mod. sorting, rd qtz, weak consol.	10	50	3942634	56	60	4	<0.02	<1	4	4	75	10	1.76	1100	9	15	13
15	16	SAND/CLAY	Wh. vf qtz Sand-powdery clay, min. c sand	15	50	3942635	60	64	4	<0.02	<1	4	5	80	13	2.22	1150	11	15	17
16	17	SAND/CLAY	Wh. vf/med. qtz Sand-powdery clay, min. c sand	20	50	3942636	64	68	4	<0.02	<1	4	3	100	8	1.36	880	7	10	10
17	18	SAND/CLAY	Wh. vf/med. qtz Sand-powdery clay, min. c sand	40	50	3942637	68	72	4	<0.02	<1	<3	3	140	7	1.28	560	10	5	9
18	19	SAND/CLAY	Wh. vf/med. qtz Sand, mod. powdery clay, min. c sand	50	55	3942638	72	76	4	<0.02	<1	8	6	18	17	2.52	940	13	30	34
19	20	SAND/CLAY	Wh. vf/med. qtz Sand, min. powdery clay, mod. c sand	50	55	3942639	76	80	4	<0.02	<1	6	5	26	17	2.58	880	10	15	30
20	21	SAND/CLAY	Wh. vf/med. qtz Sand, mod. powdery clay, c sand	50	60	3942640	80	84	4	<0.02	<1	8	6	20	26	2.50	430	9	25	28
21	22	SAND/CLAY	Wh/Ye vf qtz Sand-powdery clay, min. c sand	40	85	3942641	84	88	4	<0.02	<1	8	7	28	18	2.82	800	11	20	30
22	23	SAND/CLAY	Wh/Ye vf qtz Sand-powdery clay, min. c sand	20	90	3942642	88	92	4	<0.02	<1	10	8	13	24	3.66	1000	11	25	40
23	24	SAND/CLAY	Wh/Ye vf qtz Sand-powdery clay, min. c sand	90	90	3942643	92	96	4	<0.02	<1	10	9	19	26	3.82	2450	16	35	42
24	25	SAND/CLAY	Wh. vf/med. qtz Sand-powdery clay, min. c sand	160	70	3942644	96	100	4	<0.02	<1	6	7	36	14	2.50	1400	10	25	22
25	26	SAND/CLAY	Wh. vf/med. qtz Sand-powdery clay, min. c sand	250	60	3942645	100	104	4	<0.02	<1	10	7	70	18	2.58	2700	12	40	24
26	27	SAND/CLAY	Wh/Ye vf qtz Sand-powdery clay, min. c sand	150	65	3942646	104	108	4	<0.02	<1	6	6	65	11	2.50	700	13	15	17
27	28	SAND/CLAY	Wh. vf/med. qtz Sand-powdery clay, min. c sand	180	65	3942647	108	112	4	<0.02	<1	10	8	28	22	3.26	1050	13	30	32
28	29	SAND/CLAY	Wh/Ye vf qtz Sand-powdery clay, min. c sand	200	65	3942648	112	116	4	<0.02	<1	12	10	28	22	3.62	840	14	35	40
29	30	SAND/CLAY	Wh. vf qtz Sand-powdery clay, min. c sand	80	80	3942649	116	119	3	<0.02	<1	8	8	36	19	2.92	560	12	20	32
30	31	SAND/CLAY	Wh. vf qtz Sand-powdery clay, min. c sand	200	70		EOH													
31	32	SAND/CLAY	Wh/Br med. qtz Sand-powdery clay, min. c sand	40	75															
32	33	SAND/CLAY	Lt. Gy. vf/med. qtz Sand-powdery clay	60	70															
33	34	SAND/CLAY	Lt. Gy. vf qtz Sand-powdery clay	200	70															
34	35	SAND/CLAY	Lt. Gy/Br vf/med. qtz Sand, mod. powdery clay, min. Fe, c qtz	150	75															
35	36	SAND/CLAY	Lt. Gy/Br vf/med. qtz Sand, mod. powdery clay, min. Fe, c qtz	80	75															
36	37	SAND/CLAY	Lt. Br. vf qtz Sand-powdery clay (Shale), min. Fe	80	120															
37	38	SAND/CLAY	Lt. Br. vf qtz Sand-powdery clay (Shale), min. Fe	60	110															
38	39	SAND	Gy. c/vc qtz Sand/Grav, mod. sorting, subrd qtz, min. Fe	50	70															

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HOLE RC94CW7		CHARLOTTE WELL - EL1974										
PROSPECT	PASCOE WELL	EASTING	608800(AMG)	Traverse 1(Local)	COMMENCED	29/11/94	DPO	54320	RC	0-119m	OXIDISED TO	7m	CONTRACTOR	STRATA
AZIMUTH	-	NORTHING	6547875(AMG)	17150(Local)	COMPLETED	30/11/94					WATER TABLE	51m	DRILLER	MARTY / TREVOR
INCLINATION	90°	ZONE	53		GEOLOGIST	DWW							RIG	EXPLORER 200
TOTAL DEPTH	119m	RL	142m											

GEOLOGICAL DESCRIPTION						RESULTS (ppm)														
From	To	Summary	Detail	SI	CPS	Sample No	From	To	Int	Au	Ag	As	Co	Cr	Cu	Fe %	Mn	Ni	Pb	Zn
39	40	SANDSTONE	Gy. med/c qtz Sst, mod. sorting, subrd qtz, min. Fe	20	60															
40	41	SANDSTONE	Gy. med. qtz Sst, poor sorting, min. clay	130	70															
41	42	SANDSTONE	Gy. med. qtz Sst, mod. sorting, min. Fe	80	70															
42	43	SANDSTONE	Gy/Pi med. qtz Sst, mod. sorting, Fe	150	80															
43	44	FE SANDSTONE	Lt. Br. Fe med. qtz Sst, mod. sorting, min. chl. PANDURRA FM.	60	90															
44	45	FE SANDSTONE	Br. Fe med. qtz Sst, min. Wh Sst, mod. sorting, min. chl.	60	105															
45	46	FE SANDSTONE	Br/Wh Fe med. qtz Sst, mod. sorting, min. clay	60	80															
46	47	SANDSTONE	Lt. Br/Wh med. qtz Sst, mod. sorting, min. Fe, clay	60	80															
47	48	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. clay	60	80															
48	49	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. clay	60	80															
49	50	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. clay	60	80															
50	51	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. clay	60	80															
51	52	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. clay, qtz	60	90															
52	53	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. clay, qtz	60	90															
53	54	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. clay, qtz	60	90															
54	55	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. chl/talc, clay, qtz	60	100															
55	56	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. clay, qtz	60	100															
56	57	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. clay, qtz	60	100															
57	58	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, clay, min. qtz	60	90															
58	59	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. clay, qtz	60	70															
59	60	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. clay, qtz	80	80															
60	61	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. clay, qtz	20	80															
61	62	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. clay, qtz	20	80															
62	63	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. clay, qtz	20	80															
63	64	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. clay, qtz	20	80															
64	65	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. clay, qtz	20	80															
65	66	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. clay, qtz	60	80															
66	67	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. clay, qtz	60	80															
67	68	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. clay, qtz	60	80															
68	69	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. Shale, clay, qtz	200	80															
69	70	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. Shale, clay, qtz	80	80															
70	71	FE SST/SHALE	Br/Gy Fe med/c qtz Sst, mod. sorting, ab. Shale, min. clay, qtz	200	80															
71	72	FE SANDSTONE	Br/Gy Fe med/c qtz Sst, mod. sorting, min. Shale, clay, qtz	200	90															
72	73	FE SST/SHALE	Gy. Fe med/c qtz Sst, mod. sorting, Shale, min. Fe, clay, qtz	150	100															
73	74	FE SILTSTONE	Br. mica Slt, min. Fe/Mn on bedding	60	160															
74	75	FE SLT/SST	Br. mica Slt, mod. Fe Sst, min. qtz	80	130															
75	76	FE SLT/SST	Br. mica Slt, mod. Fe Sst, min. qtz	60	120															
76	77	FE SLT/SST	Br. mica Slt, abund. Fe Sst, min. qtz	40	120															
77	78	FE SST/SHALE	Br. Fe med/c qtz Sst, mod. sorting, Shale, min. qtz	40	105															

HOLE RC94CW7 — CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	608800(AMG) Traverse 1(Local)	COMMENCED	29/11/94	DPO 54320	RC 0-119m	OXIDISED TO 7m	CONTRACTOR STRATA
AZIMUTH	-	NORTHING	6547875(AMG) 17150(Local)	COMPLETED	30/11/94			WATER TABLE 51m	DRILLER MARTY / TREVOR
INCLINATION	90°	ZONE	53	GEOLOGIST	DWW				RIG EXPLORER 200
TOTAL DEPTH	119m	RL	142m						

GEOLOGICAL DESCRIPTION						RESULTS (ppm)														
From	To	Summary	Detail	SI	CPS	Sample No	From	To	Int	Au	Ag	As	Co	Cr	Cu	Fe %	Mn	Ni	Pb	Zn
78	79	FE SST/SHALE	Br. Fe med/c qtz Sst, mod. sorting, Shale, min. qtz	20	80															
79	80	FE SST/SLT	Br. Fe med/c qtz Sst, mod. sorting, abund. mica Slt, min. qtz	20	80															
80	81	FE SILTSTONE	Br. mica Slt, min. Fe Sst	20	125															
81	82	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. mica Slt, qtz	30	140															
82	83	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. qtz	40	110															
83	84	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. mica, tr. qtz	80	120															
84	85	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, mica, tr. qtz	30	130															
85	86	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. Shale, tr. qtz	200	130															
86	87	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, mica, tr. qtz	50	180															
87	88	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, mica, tr. qtz	40	105															
88	89	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, mica, tr. qtz	40	150															
89	90	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, mica, tr. qtz	70	140															
90	91	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. mica, tr. qtz	60	100															
91	92	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. mica, tr. qtz	200	100															
92	93	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. mica, tr. qtz	200	100															
93	94	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. mica, tr. qtz	50	120															
94	95	FE SILTSTONE	Br. mica Slt, abund. mica, mod. Fe	200	150															
95	96	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. mica, tr. qtz	250	120															
96	97	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. mica, tr. qtz	60	100															
97	98	FE SANDSTONE	Br. Fe med/c qtz Sst, poor sorting, abund. qtz, tr. mica	250	100															
98	99	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, abund. mica, min. qtz	60	100															
99	100	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, mica, min. chl, tr. qtz	50	100															
100	101	FE SLT/SHALE	Gy/Br Slt/Shale, mod. Fe, min. mica	200	160															
101	102	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, mica, qtz	200	160															
102	103	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. mica, tr. qtz	80	120															
103	104	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, qtz, tr. mica	200	105															
104	105	FE SANDSTONE	Br. Fe med/c qtz Sst, poor sorting, abund. qtz, tr. mica	250	80															
105	106	FE SANDSTONE	Br. Fe med/c qtz Sst, poor sorting, mod. qtz, min. mica	40	100															
106	107	FE SANDSTONE	Br. Fe med/c qtz Sst, poor sorting, abund. qtz, tr. mica	200	80															
107	108	FE SANDSTONE	Br. Fe med/c qtz Sst, poor sorting, mod. qtz, tr. mica	150	90															
108	109	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. mica, tr. qtz	50	150															
109	110	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, mica, tr. qtz	90	140															
110	111	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, mica, qtz	60	90															
111	112	FE SST/SLT	Br. Fe med/c qtz Sst, poor sorting, mod. Slt, mica, min. chl.	60	120															
112	113	FE SST/SLT	Br. Fe med/c qtz Sst, poor sorting, mod. Slt, mica, min. chl.	80	130															
113	114	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, min. mica, qtz	60	90															
114	115	FE SANDSTONE	Br. Fe med/c qtz Sst, mod. sorting, qtz, min. mica	20	70															
115	116	FE SST/SLT	Br. Fe med/c qtz Sst, poor sorting, abund. mica Slt, tr. qtz	20	120															
116	117	FE SST/SLT	Br. Fe med/c qtz Sst, mod. sorting, mica Slt, min. qtz	20	100															

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HOLE RC94CW7		CHARLOTTE WELL - EL1974											
PROSPECT	PASCOE WELL	EASTING	608800(AMG)	Traverse 1(Local)	COMMENCED	29/11/94	DPO	54320	RC	0-119m	OXIDISED TO	7m	CONTRACTOR	STRATA
AZIMUTH	-	NORTHING	6547875(AMG)	17150(Local)	COMPLETED	30/11/94					WATER TABLE	51m	DRILLER	MARTY / TREVOR
INCLINATION	90°	ZONE	53		GEOLOGIST	DWW							RIG	EXPLORER 200
TOTAL DEPTH	119m	RL	142m											

From	To	Summary	Detail	SI	CPS	Sample No	From	To	Int	Au	Ag	As	Co	Cr	Cu	Fe %	Mn	Ni	Pb	Zn
		GEOLOGICAL DESCRIPTION				RESULTS (ppm)														
117	118	FE SST/SLT	Br. Fe med/c qtz Sst, poor sorting, abund. mica Slt, tr. qtz	20	80															
118	119	FE SST/SLT	Br. Fe med/c qtz Sst, poor sorting, abund. mica Slt, tr. qtz	20	80															
EOH																				

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HOLE RC94CW8 — CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	607700(AMG)	COMMENCED	30/11/94	DPO	54320	RC	0-92m
AZIMUTH	-	NORTHING	6549700(AMG)	COMPLETED	1/12/94	OXIDISED TO	5m	CONTRACTOR	STRATA
INCLINATION	90°	ZONE	53	GEOLOGIST	DWW	WATER TABLE	33m	DRILLER	MARTY / TREVOR
TOTAL DEPTH	92m	RL	149m					RIG	EXPLORER 200

GEOLOGICAL DESCRIPTION						RESULTS (ppm)														
From	To	Summary	Detail	SI	CPS	Sample No	From	To	Int	Au	Ag	As	Co	Cr	Cu	Fe %	Mn	Ni	Pb	Zn
0	1	SANDSTONE	Ye/Br weath. med/c qtz Sst, poor sorting, min. clay, qtz, tr. Fe	20	60	3942650	0	4	4	<0.02	<1	4	<2	46	4	1.67	50	5	<5	4
1	2	SANDSTONE	Ye/Br weath. med/c qtz Sst, poor sorting, min. clay, qtz, tr. Fe	20	60	3942651	4	8	4	<0.02	<1	<3	<2	65	3	1.19	35	4	<5	3
2	3	SANDSTONE	Ye/Br weath. med/c qtz Sst, poor sorting, min. qtz, tr. Fe	20	60	3942652	8	12	4	<0.02	<1	<3	<2	36	2	0.42	10	3	<5	<2
3	4	SANDSTONE	Ye/Br weath. med/c qtz Sst, poor sorting, min. qtz, tr. Fe	10	60	3942653	12	16	4	<0.02	<1	<3	<2	65	<2	0.40	15	4	10	<2
4	5	SANDSTONE	Ye/Br weath. med/c qtz Sst, poor sorting, min. qtz, tr. Fe	10	50	3942654	16	20	4	<0.02	<1	<3	<2	55	3	0.28	15	4	10	<2
5	6	SAND	Ye c/vc qtz Sand, well sorted, subrd qtz, min. Sst	10	50	3942655	20	24	4	<0.02	<1	<3	<2	75	<2	0.42	20	6	10	<2
6	7	SAND	Ye/Br med/c qtz Sand, poor sorting, subrd qtz	15	60	3942656	24	28	4	<0.02	<1	<3	<2	50	3	0.32	15	7	20	<2
7	8	SAND/SST	Ye/Wh c/vc qtz Sand, well sorted, subrd qtz, mod. Sst	15	50	3942657	28	32	4	<0.02	<1	<3	<2	80	3	0.41	20	8	10	<2
8	9	SAND	Ye/Wh c/vc qtz Sand, well sorted, subrd qtz, tr. Sst	20	45	3942658	32	36	4	<0.02	<1	<3	<2	40	<2	0.18	10	3	5	<2
9	10	SANDSTONE	Wh/Ye f/med. qtz Sst, mod. sorting, min. qtz, tr. Fe	20	45	3942659	36	40	4	<0.02	<1	<3	3	95	10	0.42	65	5	5	4
10	11	SAND	Rd/Br f/med. qtz Sand, mod. sorting, min. c Sand	40	50	3942660	40	44	4	<0.02	<1	<3	<2	75	5	0.56	70	6	10	10
11	12	SAND	Wh. c/vc qtz Sand, poor sorting, subang-subrd qtz, min. clay	200	60	3942661	44	48	4	<0.02	<1	4	5	75	11	1.72	160	11	5	28
12	13	SAND/CLAY	Wh. c/vc qtz Sand, poor sorting, subang-subrd qtz, ab. clay	20	60	3942662	48	52	4	<0.02	<1	<3	4	130	7	1.57	140	8	5	20
13	14	SAND/CLAY	Wh. c/vc qtz Sand, poor sorting, subang-subrd qtz, ab. clay	20	55	3942663	52	56	4	<0.02	<1	<3	4	120	8	1.81	110	10	10	24
14	15	SAND	Wh. f/med. qtz Sst, mod. sorting, min. c qtz, clay, tr. Fe	15	45	3942664	56	60	4	<0.02	<1	<3	3	55	7	1.70	120	6	10	18
15	16	SAND	Wh. f/med. qtz Sst, mod. sorting, min. c qtz, clay	20	55	3942665	60	64	4	<0.02	<1	4	6	75	7	2.34	210	8	10	28
16	17	SAND	Wh. f/med. qtz Sst, mod. sorting, min. clay	20	50	3942666	64	68	4	<0.02	<1	8	7	46	8	3.72	520	11	20	46
17	18	SAND	Wh. f/med. qtz Sst, mod. sorting, abund. qtz, min. clay	70	40	3942667	68	72	4	<0.02	<1	6	19	55	9	3.96	500	26	25	100
18	19	SAND/CLAY	Wh. vf/f qtz Sand-powdery/sticky clay	60	60	3942668	72	76	4	<0.02	<1	6	8	48	8	3.16	360	13	15	40
19	20	SAND/CLAY	Wh. med. qtz Sand, well sorted, mod. powdery/sticky clay	60	60	3942669	76	80	4	<0.02	<1	4	5	110	8	2.98	340	10	5	19
20	21	SAND/CLAY	Wh. med. qtz Sand, well sorted, mod. powdery/sticky clay	60	50	3942670	80	84	4	<0.02	<1	<3	6	100	6	2.28	270	10	10	36
21	22	SAND/CLAY	Wh. vf qtz Sand-powdery clay, min. c qtz, Fe	20	50	3942671	84	88	4	<0.02	<1	<3	2	170	4	1.46	170	6	5	8
22	23	SAND/CLAY	Wh. vf qtz Sand-powdery clay, min. c qtz, Fe	20	50	3942672	88	92	4	<0.02	<1	<3	2	46	2	1.53	190	3	<5	6
23	24	SAND/CLAY	Wh. vf/med. qtz Sand-powdery clay, abund. c/vc qtz, min. Fe	60	60		EOH													
24	25	SAND/CLAY	Wh. vf/med. qtz Sand-powdery clay, abund. c/vc qtz, min. Fe	20	60															
25	26	CLAY	Wh. powdery Clay, mod. competent clay, min. c qtz	30	80															
26	27	CLAY	Wh. powdery Clay, mod. competent clay, min. c qtz	30	110															
27	28	SAND/CLAY	Wh/Ye vf/med. qtz Sand-powdery clay, ab. c/vc qtz, min. Fe	40	100															
28	29	SAND/CLAY	Wh/Lt. Gy vf/med. qtz Sand-powdery clay, min. med/c qtz	250	70															
29	30	SAND/CLAY	Wh/Lt. Gy vf/med. qtz Sand-powdery clay, mod. med/c qtz	20	65															
30	31	SAND/CLAY	Wh/Lt. Gy vf/med. qtz Sand-powdery clay, mod. med/c qtz	200	65															
31	32	SAND/CLAY	Wh. med/c qtz Sand, poor sorting, mod. clay, min. vc qtz	5	55															
32	33	SAND/CLAY	Wh. c/vc qtz Sand, mod. sorting, subang-rd qtz, mod. clay	5	55															
33	34	SAND	Wh. f/c qtz Sand, poor sorting, subang-rd qtz, min. clay	10	55															
34	35	SAND	Wh. med/c qtz Sand, mod. sorting, subang-rd qtz, min. clay	5	45															
35	36	SANDSTONE	Wh. med. qtz Sst, well sorted, rd qtz, clean	5	50															
36	37	SAND	Wh. c/vc qtz Sand, poor sorting, subrd qtz, min. Sst, clay	20	50															
37	38	SAND	Wh. f/vf qtz Sand, mod. sorting, min. med/c qtz, tr. clay	30	70															
38	39	SAND	Wh. f/vf qtz Sand, mod. sorting, min. med/c qtz, tr. clay	30	70															

HOLE RC94CW8 — CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	607700(AMG)	COMMENCED	30/11/94	DPO	54320	RC	0-92m	OXIDISED TO 5m	CONTRACTOR STRATA
AZIMUTH	-	NORTHING	6549700(AMG)	COMPLETED	1/12/94					WATER TABLE 33m	DRILLER MARTY / TREVOR
INCLINATION	90°	ZONE	53	GEOLOGIST	DWW						RIG EXPLORER 200
TOTAL DEPTH	92m	RL	149m								

GEOLOGICAL DESCRIPTION						RESULTS (ppm)														
From	To	Summary	Detail	SI	CPS	Sample No	From	To	Int	Au	Ag	As	Co	Cr	Cu	Fe %	Mn	Ni	Pb	Zn
39	40	SAND	Wh. f/vf qtz Sand, mod. sorting, min. med/c qtz, tr. clay	30	75															
40	41	SAND	Wh. f/c qtz Sand, poor sorting, min. vc qtz	30	75															
41	42	SAND	Wh/Ye f/med. qtz Sand, mod. sorting, min. c qtz, tr. clay	60	75															
42	43	SAND	Wh/Ye f/vf qtz Sand, mod. sorting, min. med/c qtz, tr. Fe	60	90															
43	44	SAND	Wh/Br vf/f qtz Sand, well sorted, min. med. qtz, Fe, clay	30	100															
44	45	SAND	Wh/Br vf/f qtz Sand, mod. sorting, c/vc qtz, min. Fe, clay	60	100															
45	46	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, c/vc qtz, min. vf/f qtz	200	110															
46	47	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, c/vc qtz, min. vf/f qtz	90	105															
47	48	SANDSTONE	Br/Ye med. qtz Sst, mod. sorting, Fe, tr. qtz	100	90															
48	49	SAND	Br/Ye f/c qtz Sand, poor sorting, rd qtz, min. Sst	80	85															
49	50	SAND	Ye/Wh f/med. qtz Sand, mod. sorting, rd qtz, min. Sst, c qtz	80	70															
50	51	SAND	Ye/Wh f/med. qtz Sand, mod. sorting, rd qtz, min. Sst, c qtz, Fe	200	70															
51	52	SAND/SST	Lt. Br/Wh med/c qtz Sand, mod. sorting, mod. Sst	60	80															
52	53	SST/SAND	Br. med. qtz Sst, mod. sorting, Fe, tr. qtz PANDURRA FM.	200	80															
53	54	SANDSTONE	Br. med. qtz Sst, mod. sorting, qtz, min. Fe	150	80															
54	55	SST/SAND	Br. med. qtz Sst/Sand, mod. sorting, qtz	40	90															
55	56	SST/SAND	Lt. Br/Ye med. qtz Sst, mod. sorting, Sand, qtz, min. Fe	90	90															
56	57	SST/SAND	Lt. Br/Ye med. qtz Sst/Sand, mod. sorting, qtz, min. Fe	200	70															
57	58	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. Wh. clay, qtz	30	110															
58	59	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. Wh. clay, qtz	20	110															
59	60	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, mica/chl, qtz	20	70															
60	61	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. mica/chl, qtz	20	110															
61	62	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. mica/chl, tr. qtz	30	130															
62	63	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, tr. qtz	60	120															
63	64	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting	40	110															
64	65	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. chl.	40	100															
65	66	FE SILTSTONE	Br. mica Slt, min. Shale, abund. Fe	40	180															
66	67	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. mica, tr. qtz	40	140															
67	68	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. mica, tr. qtz	20	110															
68	69	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. qtz	20	90															
69	70	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, clay, min. qtz	20	80															
70	71	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, mod. qtz	60	90															
71	72	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. qtz	40	100															
72	73	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. qtz	40	100															
73	74	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. mica, tr. qtz	40	100															
74	75	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. Wh. Sst, tr. qtz	40	90															
75	76	SANDSTONE	Br/Wh med. qtz Sst, mod. sorting, qtz, min. Fe Sst	40	100															
76	77	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. mica, tr. qtz	90	90															
77	78	FE SANDSTONE	Br. Fe med. qtz Sst/Wh. Sst, mod. sorting, min. qtz	40	90															

HOLE RC94CW8 — CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	607700(AMG)	COMMENCED	30/11/94	DPO 54320	RC 0-92m	OXIDISED TO 5m	CONTRACTOR STRATA
AZIMUTH	-	NORTHING	6549700(AMG)	COMPLETED	1/12/94			WATER TABLE 33m	DRILLER MARTY / TREVOR
INCLINATION	90°	ZONE	53	GEOLOGIST	DWW				RIG EXPLORER 200
TOTAL DEPTH	92m	RL	149m						

GEOLOGICAL DESCRIPTION						RESULTS (ppm)															
From	To	Summary	Detail	SI	CPS	Sample No	From	To	Int	Au	Ag	As	Co	Cr	Cu	Fe %	Mn	Ni	Pb	Zn
78	79	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, abund. qtz	50	70															
79	80	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. qtz	80	70															
80	81	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, qtz	50	70															
81	82	FE SANDSTONE	Br. Fe med. qtz Sst/Wh. Sst, mod. sorting, min. chl, tr. qtz	30	70															
82	83	FE SANDSTONE	Br. Fe med. qtz Sst/Wh. Sst, mod. sorting, chl, min. qtz	30	70															
83	84	SAND	Br/Wh med/c qtz Sand, mod. sorting, subrd qtz, min. Fe	40	70															
84	85	SAND	Br/Wh med/c qtz Sand, mod. sorting, subrd qtz, mod. Fe	40	60															
85	86	SAND	Br/Wh med/c qtz Sand, mod. sorting, subrd qtz, mod. Fe	40	60															
86	87	SAND	Br/Wh med/c qtz Sand, mod. sorting, subrd qtz, mod. Fe	40	60															
87	88	SAND	Wh/Br med/c qtz Sand, mod. sorting, subrd qtz, clean	20	60															
88	89	SAND	Wh/Br med/c qtz Sand, mod. sorting, subrd qtz, clean	40	60															
89	90	SAND	Wh. med/c qtz Sand, mod. sorting, subrd qtz, clean	40	60															
90	91	SAND	Wh. med/c qtz Sand, mod. sorting, subrd qtz, clean, min. Fe	10	60															
91	92	SAND	Wh. med/c qtz Sand, mod. sorting, subrd qtz, clean, min. Fe	10	60															
EOH																				

HOLE RC94CW9 — CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	609475(AMG)	Traverse 1(Local)	COMMENCED	1/12/94	DPO 54320
AZIMUTH	-	NORTHING	6546100(AMG)	15200(Local)	COMPLETED	2/12/94	RC 0-90m
INCLINATION	90°	ZONE	53		GEOLOGIST	DWW	
TOTAL DEPTH	90m	RL	137m				

OXIDISED TO	5m	CONTRACTOR	STRATA
WATER TABLE	59m	DRILLER	MARTY / TREVOR
		RIG	EXPLORER 200

GEOLOGICAL DESCRIPTION						RESULTS (ppm)														
From	To	Summary	Detail	SI	CPS	Sample No	From	To	Int	Au	Ag	As	Co	Cr	Cu	Fe %	Mn	Ni	Pb	Zn
0	1	SAND	Br. med/vc qtz Sand, poor sorting, subrd qtz, min. Fe	60	50	3942673	0	4	4	<0.02	<1	4	3	50	8	1.38	60	7	5	13
1	2	SAND	Br. med/vc qtz Sand, poor sorting, subrd qtz, min. Fe	60	50	3942674	4	8	4	<0.02	<1	6	5	44	9	2.24	75	10	5	20
2	3	SAND	Br. med/vc qtz Sand, poor sorting, subrd qtz, min. Sst, Fe	70	50	3942675	8	12	4	<0.02	<1	<3	3	44	10	2.60	60	11	10	20
3	4	SAND/CLAY	Br. weath. med. qtz Sand/Clay, poor sorting, min. Fe	60	50	3942676	12	16	4	<0.02	<1	4	2	36	7	2.44	35	10	5	12
4	5	SAND/CLAY	Br. weath. med. qtz Sand/Clay, poor sorting, min. Fe	60	50	3942677	16	20	4	<0.02	<1	<3	3	80	3	1.48	30	11	5	5
5	6	SAND/CLAY	Br. weath. med. qtz Sand/Clay, poor sorting, min. Fe	40	50	3942678	20	24	4	<0.02	<1	4	3	80	4	0.59	460	17	10	4
6	7	SAND/CLAY	Br. weath. med. qtz Sand/Clay, poor sorting, mod. qtz, min. Fe	40	60	3942679	24	28	4	<0.02	<1	4	<2	120	5	0.53	460	12	10	4
7	8	SAND/CLAY	Br. weath. med. qtz Sand/Clay, poor sorting, min. Fe	40	60	3942680	28	32	4	<0.02	<1	6	2	65	10	1.33	660	8	10	10
8	9	SAND/CLAY	Br. weath. med. qtz Sand/Clay, poor sorting, min. qtz, Fe	20	60	3942681	32	36	4	<0.02	<1	6	4	75	18	1.08	140	11	5	12
9	10	SAND/CLAY	Br. weath. med. qtz Sand, poor sorting, mod. clay, qtz, min. Fe	20	55	3942682	36	40	4	<0.02	<1	10	5	19	14	2.06	580	10	10	24
10	11	SAND/CLAY	Br. weath. med. qtz Sand, poor sorting, mod. clay, qtz, min. Fe	40	55	3942683	40	44	4	<0.02	<1	6	4	80	11	1.75	700	14	10	15
11	12	SAND/CLAY	Br. weath. med. qtz Sand/Clay, poor sorting, mod. qtz, min. Fe	60	55	3942684	44	48	4	<0.02	<1	4	4	40	10	1.13	180	11	<5	15
12	13	SAND/CLAY	Br. med. qtz Sand, mod. sorting, Clay, Fe, min. qtz	80	60	3942685	48	52	4	<0.02	<1	4	3	60	13	1.34	200	11	5	14
13	14	SAND/CLAY	Br. med. qtz Sand, mod. sorting, Clay, Fe, min. qtz	70	60	3942686	52	56	4	<0.02	<1	8	4	32	9	2.26	480	10	10	17
14	15	SAND/CLAY	Br. med. qtz Sand/Clay, poor sorting, mod. Fe, min. qtz	50	50	3942687	56	60	4	<0.02	<1	8	5	40	15	2.40	410	12	10	26
15	16	SAND/CLAY	Br. med. qtz Sand, mod. sorting, Clay, Fe, min. qtz	50	55	3942688	60	64	4	<0.02	<1	14	8	9	24	3.58	360	12	20	55
16	17	CLAY/SAND	Lt. Br/Wh Clay/ f/med. Sand, poor sorting, min. qtz, Fe	20	60	3942689	64	68	4	<0.02	<1	12	6	19	19	3.66	940	7	15	40
17	18	SAND	Wh. Clay/ f/med. Sand, poor sorting, min. Sst, qtz	60	50	3942690	68	72	4	<0.02	<1	8	6	13	18	2.92	460	9	15	44
18	19	SAND	Wh. f/med. Sand, mod. sorting, min. powdery clay, vc qtz	50	60	3942691	72	76	4	<0.02	<1	12	9	24	22	3.72	760	11	15	42
19	20	SAND	Wh. f Sand, mod. sorting, min. powdery clay, med/vc qtz	20	50	3942692	76	80	4	<0.02	<1	18	5	50	14	3.60	660	6	10	26
20	21	SAND/CLAY	Wh/Ye med/c Sand, poor sorting, mod. clay, min. f qtz	30	45	3942693	80	84	4	<0.02	<1	14	3	100	5	1.53	170	5	5	8
21	22	SAND/CLAY	Wh/Ye c/vc Sand, poor sorting, mod. clay, min. f/med. qtz	20	60	3942694	84	88	4	<0.02	<1	6	3	9	6	1.79	260	4	5	26
22	23	SAND/CLAY	Wh/Lt. Gy vf/f Sand-powdery clay, mod. med/vc qtz	200	60	3942695	88	90	2	<0.02	<1	<3	4	30	5	2.38	290	3	10	38
23	24	SAND/CLAY	Wh/Lt. Gy vf/f Sand, mod. powdery clay, min. med. qtz	60	85		EOH													
24	25	SAND/CLAY	Wh/Lt. Gy f/med. Sand, mod. powdery clay, min. c qtz	60	60															
25	26	SAND/CLAY	Wh/Lt. Gy vf/f Sand, mod. powdery clay, min. med/c qtz	200	70															
26	27	SAND/CLAY	Wh/Lt. Gy f/med. Sand, min. powdery clay, c/vc qtz	200	70															
27	28	SAND	Wh/Ye f/vf Sand, min. clay, med/c qtz, tr. Fe	200	60															
28	29	SAND	Wh/Ye f Sand, min. clay, med/c qtz, Fe	100	90															
29	30	SAND/CLAY	Ye/Lt. Gy vf/f Sand, mod. powdery clay, mod. Fe, min. med. qtz	80	100															
30	31	SAND/CLAY	Ye. vf/f Sand, mod. powdery clay, mod. Fe, min. med. qtz	200	100															
31	32	SAND/CLAY	Br/Ye vf/f Sand, mod. powdery clay, mod. Fe, min. med. qtz	80	100															
32	33	SAND/CLAY	Lt. Br/Wh vf/f Sand, mod. powdery clay, mod. Fe, min. med. qtz	80	100															
33	34	SAND/CLAY	Lt. Br/Wh vf/f Sand, mod. powdery clay, mod. Fe, min. med. qtz	60	80															
34	35	SAND/CLAY	Ye/Lt. Gy vf/f Sand, mod. powdery clay, min. Sst	250	80															
35	36	FE SANDSTONE	Lt. Br. Fe med. Sst, mod. sorting, mod. Fe, tr. qtz PANDURRA FM	200	100															
36	37	FE SANDSTONE	Lt. Br. Fe med. Sst, mod. sorting, tr. qtz	200	110															
37	38	FE SANDSTONE	Lt. Br. Fe med. Sst, mod. sorting, min. mica	100	120															
38	39	FE SANDSTONE	Lt. Br. Shale/mica Slt, mod. Fe, min. Sst	60	120															

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HOLE RC94CW9 CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	609475(AMG)	Traverse 1(Local)	COMMENCED	1/12/94	DPO	54320	RC	0-90m	OXIDISED TO	5m	CONTRACTOR STRATA
AZIMUTH	-	NORTHING	6546100(AMG)	15200(Local)	COMPLETED	2/12/94					WATER TABLE	59m	DRILLER MARTY / TREVOR
INCLINATION	90°	ZONE	53		GEOLOGIST	DWW							RIG EXPLORER 200
TOTAL DEPTH	90m	RL	137m										

GEOLOGICAL DESCRIPTION						RESULTS (ppm)														
From	To	Summary	Detail	SI	CPS	Sample No	From	To	Int	Au	Ag	As	Co	Cr	Cu	Fe %	Mn	Ni	Pb	Zn
39	40	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. shale/Slt, tr. qtz	200	90															
40	41	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. qtz	200	80															
41	42	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. qtz	250	70															
42	43	FE SHALE/SLT	Br. Shale/mica Slt, mod. Fe, min. Sst, min. mica Slt	200	130															
43	44	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. qtz	300	90															
44	45	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, abund. qtz	250	90															
45	46	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. shale, qtz	250	70															
46	47	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, qtz, min. shale	300	80															
47	48	SANDSTONE	Lt. Gy/Br. med. Sst, mod. sorting, Fe Sst, qtz	300	80															
48	49	SANDSTONE	Lt. Gy/Br. med. Sst, mod. sorting, qtz, min. Fe	250	70															
49	50	SANDSTONE	Lt. Gy/Br. med. Sst, mod. sorting, Fe, qtz	300	90															
50	51	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. qtz	250	120															
51	52	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. Wh. Sst, qtz	200	100															
52	53	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. Wh. Sst, qtz	200	110															
53	54	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, tr. qtz	200	100															
54	55	FE SILTSTONE	Br mica Slt, mod. sorting, mica/chl, tr. qtz	80	130															
55	56	FE SILTSTONE	Br mica Slt, mod. sorting, mica/chl, tr. qtz	60	180															
56	57	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. mica, qtz	150	130															
57	58	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, mica, tr. qtz	60	140															
58	59	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, mica, tr. qtz	250	140															
59	60	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, clay, min. qtz	40	90															
60	61	FE SILTSTONE	Br mica Slt, mod. Fe, min. chl.	40	120															
61	62	FE SILTSTONE	Br mica Slt, mod. Fe, min. chl.	20	130															
62	63	FE SILTSTONE	Br mica Slt, mod. Fe, tr. chl.	30	120															
63	64	FE SST/SLT	Br. Fe med. Sst, mod. sorting, mica Slt, min. qtz	50	140															
64	65	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. qtz	40	100															
65	66	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. mica	20	100															
66	67	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. Slt, qtz	60	150															
67	68	FE SST/SLT	Br. Fe med. Sst, mod. sorting, mica Slt, min. qtz	20	160															
68	69	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. Slt, qtz	20	150															
69	70	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, tr. qtz	80	135															
70	71	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, qtz, min. mica/chl.	80	105															
71	72	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. mica/chl, tr. qtz	20	75															
72	73	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. Shale/Slt	60	100															
73	74	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. qtz	30	80															
74	75	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, qtz, min. Wh. Sst	30	80															
75	76	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. mica, tr. qtz	30	100															
76	77	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, min. Slt, clay	40	120															
77	78	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, tr. qtz	30	80															

HOLE RC94CW9 CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	609475(AMG)	Traverse 1(Local)	COMMENCED	1/12/94	DPO 54320	RC 0-90m	OXIDISED TO 5m	CONTRACTOR STRATA
AZIMUTH	-	NORTHING	6546100(AMG)	15200(Local)	COMPLETED	2/12/94			WATER TABLE 59m	DRILLER MARTY / TREVOR
INCLINATION	90°	ZONE	53		GEOLOGIST	DWW				RIG EXPLORER 200
TOTAL DEPTH	90m	RL	137m							

GEOLOGICAL DESCRIPTION						RESULTS (ppm)															
From	To	Summary	Detail	SI	CPS	Sample No	From	To	Int	Au	Ag	As	Co	Cr	Cu	Fe %	Mn	Ni	Pb	Zn
78	79	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, mod. qtz	20	60															
79	80	FE SANDSTONE	Br. Fe med. Sst, mod. sorting, pyrite aggreg, min. qtz	20	60															
80	81	FE SST/SAND	Br. Fe med. Sst/Sand, mod. sorting, qtz, tr. pyrite aggreg.	40	65															
81	82	FE SAND/SST	Br/Wh c qtz Sand/Sst, mod. sorting, subrd qtz, min. Fe	20	60															
82	83	FE SAND/SST	Br/Wh med/c qtz Sand/Sst, mod. sorting, subrd qtz, Fe	20	60															
83	84	FE SAND/SST	Br/Wh med/c qtz Sand/Sst, mod. sorting, subrd qtz, Fe	20	60															
84	85	FE SAND/SST	Br/Wh med/c qtz Sand/Sst, mod. sorting, subrd qtz, Fe	20	70															
85	86	FE SST/SAND	Br/Wh med. qtz Sst/Sand, mod. sorting, min. chl.	20	130															
86	87	FE SST/SAND	Br/Wh med. qtz Sst/Sand, mod. sorting, min. chl.	20	140															
87	88	FE SST/SAND	Br/Wh med. qtz Sst/Sand, mod. sorting, chl.	20	140															
88	89	FE SST/SAND	Br/Wh med. qtz Sst/Sand, mod. sorting, chl.	40	130															
89	90	FE SST/SAND	Br/Wh med. qtz Sst/Sand, mod. sorting, min. chl.	80	130															
EOH																				

00103

HOLE RC94CW10 — CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	608275(AMG)	Traverse 1(Local)	COMMENCED	3/12/94	DPO	54320
AZIMUTH	-	NORTHING	6549600(AMG)	18925(Local)	COMPLETED	3/12/94	RC	0-81m
INCLINATION	90°	ZONE	53		GEOLOGIST	DWW		
TOTAL DEPTH	81m	RL	149m					

OXIDISED TO	3m	CONTRACTOR	STRATA
WATER TABLE	63m	DRILLER	MARTY / TREVOR
		RIG	EXPLORER 200

GEOLOGICAL DESCRIPTION						RESULTS (ppm)															
From	To	Summary	Detail	SI	CPS	Sample No	From	To	Int	Au	Ag	As	Co	Cr	Cu	Fe %	Mn	Ni	Pb	Zn
0	1	SAND	Br/Wh qtz Sand, calcrete?, weath.	40	50	3942696	0	4	4	<0.02	<1	<3	2	42	5	1.14	25	5	<5	5
1	2	SAND	Br/Wh qtz Sand, calcrete?, weath.	20	50	3942697	4	8	4	<0.02	<1	<3	<2	90	<2	0.56	15	4	<5	<2
2	3	SANDSTONE	Ye. weath. med/c qtz Sst, poor sorting, ang-subrd qtz, min. Fe	20	60	3942698	8	12	4	<0.02	<1	<3	<2	36	<2	0.26	10	4	15	<2
3	4	SANDSTONE	Ye. vc qtz Sst, well sorted, subrd qtz, clean	5	50	3942699	12	16	4	<0.02	<1	<3	<2	46	<2	0.34	15	4	15	<2
4	5	SANDSTONE	Ye. vc qtz Sst, well sorted, subrd qtz, clean	5	50	3942700	16	20	4	<0.02	<1	<3	<2	26	<2	0.38	10	4	5	<2
5	6	SANDSTONE	Wh. vc qtz Sst, well sorted, subrd qtz, clean	5	50	3942701	20	24	4	<0.02	<1	<3	<2	50	4	0.46	20	7	10	2
6	7	SANDSTONE	Wh. vc qtz Sst, well sorted, subrd qtz, clean	5	50	3942702	24	28	4	<0.02	<1	4	<2	30	7	0.43	35	7	20	4
7	8	SANDSTONE	Wh. vc qtz Sst, well sorted, subrd qtz, mod. powdery Clay	15	50	3942703	28	32	4	<0.02	<1	6	<2	32	16	0.39	40	10	10	5
8	9	SANDSTONE/CLAY	Wh. vc qtz Sst-powdery Clay, mod. sorting, subrd qtz	15	50	3942704	32	36	4	<0.02	<1	<3	2	75	4	0.32	75	5	10	3
9	10	SANDSTONE/CLAY	Wh. vc qtz Sst-powdery Clay, mod. sorting, subrd qtz	40	50	3942705	36	40	4	<0.02	<1	4	3	90	6	1.05	130	9	10	6
10	11	CLAY/SANDSTONE	Wh. powdery Clay-vc qtz Sst, mod. sorting, subrd qtz	60	50	3942706	40	44	4	<0.02	<1	4	3	44	5	0.50	55	9	10	17
11	12	SANDSTONE	Wh. c/vc qtz Sst, weak consol. (sand/clay), mod. sorting	60	50	3942707	44	48	4	<0.02	<1	4	5	65	12	1.48	440	11	5	17
12	13	SANDSTONE	Wh. c/vc qtz Sst, weak consol. (sand/clay), mod. sorting	60	50	3942708	48	52	4	<0.02	<1	4	4	46	7	2.02	980	11	5	13
13	14	SANDSTONE	Wh. c/vc qtz Sst, weak consol. (clay/sand), mod. sorting	60	50	3942709	52	56	4	<0.02	<1	6	5	60	12	2.48	1000	12	5	16
14	15	SANDSTONE	Wh. c/vc qtz Sst, weak consol. (clay/sand), mod. sorting	60	50	3942710	56	60	4	<0.02	<1	6	4	70	14	2.04	680	11	15	20
15	16	SANDSTONE/CLAY	Wh. c/vc qtz Sst-powdery Clay, weak consol, poor sorting	40	50	3942711	60	64	4	<0.02	<1	4	3	150	8	1.42	330	10	5	13
16	17	SAND	Br/Or med. Sand, well sorted, clean	5	50	3942712	64	68	4	<0.02	<1	6	6	44	17	2.24	880	8	15	26
17	18	SAND	Br/Or med. Sand, well sorted, clean	5	50	3942713	68	72	4	<0.02	<1	6	4	65	12	2.28	780	9	15	16
18	19	SANDSTONE	Wh. med/c qtz Sst, weak consol, mod. sorting, Clay	40	50	3942714	72	76	4	<0.02	<1	<3	4	42	10	1.74	600	8	10	15
19	20	SANDSTONE	Wh. med/c qtz Sst, weak consol, poor sorting, ab. vf sand/clay	40	50	3942715	76	81	5	<0.02	<1	4	5	55	17	2.56	1100	8	15	26
20	21	SAND	Br/Or med. Sand, well sorted, clean	10	50		EOH													
21	22	SAND/SST	Wh. f/med qtz Sand/Sst, weak consol, mod. sorting	50	50															
22	23	SAND/SST	Wh. f/med qtz Sand/Sst, weak consol, mod. sorting	50	50															
23	24	SANDSTONE	Wh. med qtz Sst, weak consol, poor sorting, mod. vc sand, clay	80	50															
24	25	SAND	Wh. vf/f Sand, well sorted, min. Sst	80	70															
25	26	SAND/CLAY	Wh. vf/f Sand, well sorted, mod. Clay	80	70															
26	27	SAND	Br. f/med Sand, poor sorting, min. c/vc sand, clay	80	70															
27	28	SAND	Br. f/med Sand, mod. sorting, min. c/vc sand, clay	40	80															
28	29	SAND/CLAY	Lt. Gy. f/med Sand, mod. sorting, clay, min. c/vc sand	40	70															
29	30	SAND/CLAY	Lt. Gy. med/c Sand, mod. sorting, clay, min. f sand	40	70															
30	31	SAND/CLAY	Lt. Gy. med/c Sand, poor sorting, mod. clay, f sand	40	60															
31	32	SAND/CLAY	Lt. Gy. med/c Sand, mod. sorting, clay, f sand	40	80															
32	33	SAND/CLAY	Lt. Gy. med/f Sand, mod. sorting, clay, c sand	40	70															
33	34	SAND	Wh. med. Sand, well sorted, rd qtz, clean	5	50															
34	35	SAND	Wh. med. Sand, well sorted, rd qtz, clean	5	50															
35	36	SAND	Wh. med/f Sand, mod. sorting, min. Sst, vf sand	200	80															
36	37	SAND	Wh. med/f Sand, mod. sorting, min. Sst, vf sand	150	70															
37	38	SAND/SST	Wh/Ye med/c Sand, mod. sorting, Sst, clay	150	70															
38	39	SAND	Wh/Ye f/med Sand, mod. sorting, min. clay	200	70															

HOLE RC94CW10 — CHARLOTTE WELL - EL1974

PROSPECT	PASCOE WELL	EASTING	608275(AMG)	Traverse 1(Local)	COMMENCED	3/12/94	DPO	54320	RC	0-81m	OXIDISED TO 3m
AZIMUTH	-	NORTHING	6549600(AMG)	18925(Local)	COMPLETED	3/12/94					WATER TABLE 63m
INCLINATION	90°	ZONE	53		GEOLOGIST	DWW					
TOTAL DEPTH	81m	RL	149m								

CONTRACTOR	STRATA
DRILLER	MARTY / TREVOR
RIG	EXPLORER 200

GEOLOGICAL DESCRIPTION						RESULTS (ppm)														
From	To	Summary	Detail	SI	CPS	Sample No	From	To	Int	Au	Ag	As	Co	Cr	Cu	Fe %	Mn	Ni	Pb	Zn
39	40	SAND	Lt. Br/Wh f/med Sand, mod. sorting, min. c sand	60	70															
40	41	SAND	Lt. Gy/Wh f/med Sand, mod. sorting, min. c sand	120	75															
41	42	SAND	Lt. Gy. f/med Sand, mod. sorting, min. Sst, c sand	90	75															
42	43	SAND	Lt. Gy. f/med Sand, mod. sorting, min. Sst, c sand	80	70															
43	44	SAND	Lt. Gy. f/med Sand, mod. sorting, min. Sst, c sand	80	70															
44	45	SAND	Ye/Br f/med Sand, poor sorting, min. c sand	80	80															
45	46	SAND	Lt. Br/Wh f Sand, mod. sorting, min. Sst, med/c sand	60	90															
46	47	SANDSTONE	Br Fe med. qtz Sst/Wh Sst, mod. sorting, min. qtz	100	80															
47	48	SANDSTONE	Wh. med. qtz Sst, mod. sorting, min. qtz	200	70															
48	49	SAND	Wh. f/med qtz Sand, mod. sorting, min. Sst, c sand	200	70															
49	50	SAND	Wh. f/med qtz Sand, mod. sorting, min. Sst, c sand	200	70															
50	51	SAND	Wh. f/vf qtz Sand, mod. sorting, min. med/c sand	200	80															
51	52	SAND	Lt. Br/Wh med/f qtz Sand, mod. sorting, min. Fe Sst, c sand	70	80															
52	53	SAND	Lt. Br. med/f qtz Sand, mod. sorting, min. Fe Sst, c sand	200	95															
53	54	SAND	Lt. Br. med/f qtz Sand, mod. sorting, min. Fe Sst, c sand	200	95															
54	55	FE SST/SAND	Lt. Br. Fe med. qtz Sst, mod. sorting, ab. f sand PANDURRA FM	200	80															
55	56	FE SST/SAND	Lt. Br. Fe med. qtz Sst, mod. sorting, abund. f sand, mod. qtz	200	80															
56	57	FE SANDSTONE	Lt. Br. Fe med. qtz Sst, mod. sorting, f sand, tr. qtz	200	80															
57	58	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. qtz	60	110															
58	59	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. qtz	200	90															
59	60	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. qtz	200	80															
60	61	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. qtz	60	80															
61	62	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. qtz	50	70															
62	63	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, abund. qtz	40	60															
63	64	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. shale/clay, qtz	30	65															
64	65	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. qtz, mica	30	80															
65	66	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, mod. qtz	70	95															
66	67	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. mica Slt/Shale, tr. qtz	20	140															
67	68	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, min. mica Slt/Shale, tr. qtz	40	115															
68	69	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, tr. qtz	60	105															
69	70	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, tr. qtz	80	80															
70	71	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, tr. qtz	40	80															
71	72	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, tr. qtz	60	95															
72	73	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, tr. qtz	10	80															
73	74	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, qtz	10	75															
74	75	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, qtz	40	75															
75	76	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, qtz	70	70															
76	77	FE SST/SLT	Br. Fe med. qtz Sst/mica Slt/Shale, mod. sorting, tr. qtz	20	80															
77	78	FE SAND	Br. Fe med. qtz Sand, mod. sorting, min. Fe Sst	30	65															

HOLE RC94CW10				CHARLOTTE WELL - EL1974							
PROSPECT	PASCOE WELL	EASTING	608275(AMG)	Traverse 1(Local)	COMMENCED	3/12/94	DPO	54320	RC	0-81m	OXIDISED TO 3m	CONTRACTOR STRATA
AZIMUTH	-	NORTHING	6549600(AMG)	18925(Local)	COMPLETED	3/12/94					WATER TABLE 63m	DRILLER MARTY / TREVOR
INCLINATION	90°	ZONE	53		GEOLOGIST	DWW						RIG EXPLORER 200
TOTAL DEPTH	81m	RL	149m									

From	To	Summary	Detail	SI	CPS	Sample No	From	To	Int	Au	Ag	As	Co	Cr	Cu	Fe %	Mn	Ni	Pb	Zn
78	79	FE SANDSTONE	Br. Fe med. qtz Sst, mod. sorting, qtz	40	80															
79	80	FE SLT/SST	Br. Fe Slt/Sst, mod. sorting, min. clay	60	95															
80	81	FE SILTSTONE	Br. Fe Slt, min. Fe Sst	40	70															
EOH																				

GEOLOGICAL DESCRIPTION / RESULTS (ppm)

00107

00103

APPENDIX VIII

Mineralogical Report No. 6764 by Purvis, A.C., Pontifex and Associates P/L

Pontifex & Associates Pty. Ltd. 00169

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MINERALOGICAL REPORT NO. 6764

by A.C. Purvis, PhD

December 21, 1994

TO :

CRA Exploration Pty Ltd
31 Osmond Terrace
NORWOOD SA 5067

Attention : Warwick Stewart
Dave Jackson

COPY TO :

Snr. Administration Officer
CRA Exploration Pty Ltd
31 Osmond Terrace
NORWOOD SA 5067

Information Officer
CRA Exploration Pty Ltd
PO Box 3709
MANUKA ACT 2603

YOUR REFERENCE : DPO No. P54358

MATERIAL & IDENTIFICATION : 2 Rock samples
1156565 and 1156566

WORK REQUESTED : Polished thin section preparation, petrographic descriptions, with comments and photomicrographs, as specified.

SAMPLES & SECTIONS : Returned to you with this report.

a.c.purvis

PONTIFEX & ASSOCIATES PTY. LTD.

1156565 **Basalt with a coarse framework of plagioclase, pyroxene(s) and skeletal opaque oxides and a mesostasis of plagioclase microlites in chlorite - k felspar-altered possible glass, with clay-quartz-carbonate-(chalcopyrite)-filled possible vesicles and trace pyrite.**

Field Note: Altered dolerite.

This is quite an unusual rock, with an apparently cage-like framework of coarse plagioclase laths to 3 mm long, commonly containing patches of sericite and carbonate, encapsulating large areas of quenched mesostasis. The plagioclase-rich framework also contains some (~7%) granular to prismatic clinopyroxene to 2 mm grainsize, commonly altered to clays and partly skeletal opaque oxide crystals to 2 mm long. Some largely clay-altered possible orthopyroxene is also present (<1%).

The mesostasis has cores to 3 mm diameter which may be vesicles and contain quartz, chloritic clays, carbonate and sulphides in various proportions. The mesostasis proper is dominated by plagioclase microlites, many of which are curved and/or hollow, reflecting rapid quenching. Interstitial chloritic clays are common, together with less abundant carbonate, sphene and dendritic fine opaque oxide crystals. Some of the mesostasis also contains diffuse patches of alkali felspar.

One of the vesicles has a grain of chalcopyrite about 0.15 mm in size and there is rare pyrite in the host rock.

This sample appears to have commenced to cool slowly, forming the framework and then been quenched. It may be classified as a basalt with a bimodal grainsize.

1156566	**Similar "bimodal" basalt to that in 1156565, with a green area rich in chlorite and a brown area rich in alkali felspar, with chloritised ferromagnesian minerals and quartz-chlorite-carbonate-filled vesicles throughout. Pyrite more abundant in the brown zone than in the green zone. Zoned quartz-carbonate vein separating the zones, with trace pyrite.**

Field Note: Altered dolerite in contact with strong alteration band/vein

This is essentially a similar rock to that in the previous sample, but shows a green variant on one side of a quartz-carbonate vein and a brown variant on the other side. The basic rock is texturally similar to that in the previous sample but has a more abundant framework component, and less abundant mesostasis + vesicles. The vesicles, which are up to 4 mm in diameter, have been filled by various proportions of chlorite, carbonate and quartz.

The framework has plagioclase laths from 1 to 4 mm long, rarely to 8 mm long, and totally chloritised ferromagnesian grains but with smaller skeletal opaque oxides to 0.1 mm grainsize. The framework is coarser than in the previous sample but the mesostasis is finer-grained, with networks of generally planar plagioclase microlites to 0.5 mm in diameter. In the green facies, interstitial chlorite is rather more abundant than alkali felspar but in the brown zone most of the material between the plagioclase microlites is alkali felspar.

The brown zone has more abundant, if rather irregularly distributed pyrite than the green zone, with some areas having up to 7% pyrite as cubes about 0.1 mm in size. Pyrite in the green zone is rare (1%) and fine grained, except in small areas adjacent to the median vein, where there are a few grains to 0.1 mm in size.

The veins between these two zones vary in mineralogy both across and along the vein but are essentially composed of quartz and carbonate. There is a trace of pyrite in the vein.

Pontifex & Associates Pty. Ltd.

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SELECTED PHOTOMICROGRAPHS

TO ACCOMPANY

REPORT 6764

FOR

C.R.A. EXPLORATION
ADELAIDE, S.A.

21/12/94

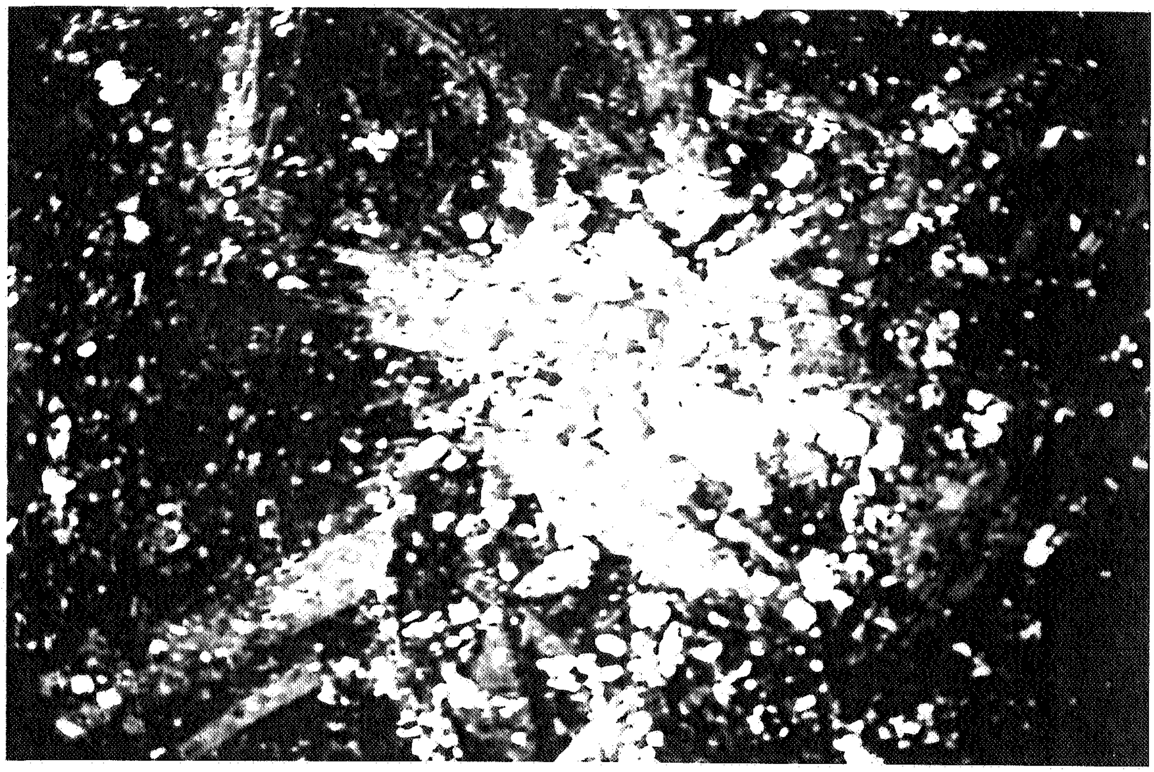


Fig 1 **1156565** **Scale : 10mm represents 0.32mm**

Xnic, basalt, showing unusual cage-like framework of coarse plagioclase laths with patches of sericite and carbonate; with quenched mesostasis in between.

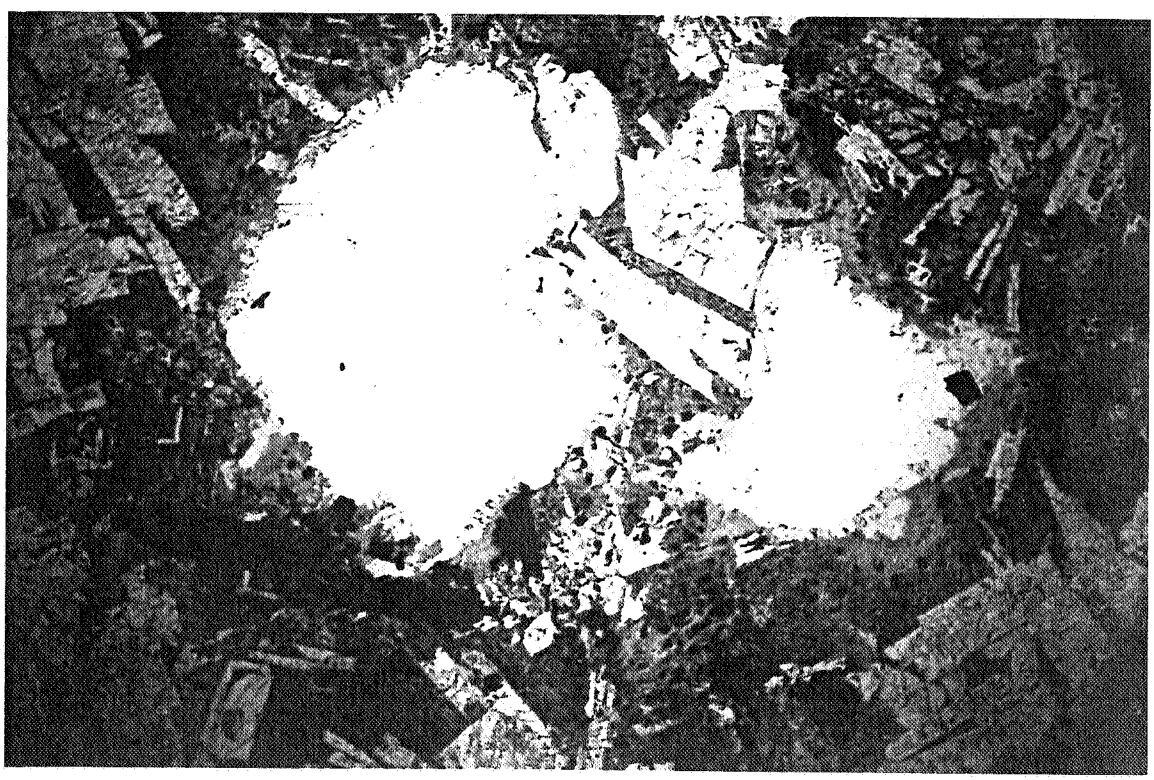


Fig 2 **1156565** **Scale : 10mm represents 0.32mm**

Ordinary light, two "cores" within mesostasis, probably vesicles occupied by quartz + rare carbonate. Some coarser plagioclase laths and opaque oxides also in mesostasis.

Fig 3 **1156565** **Scale : 10mm represents 0.32mm**

Ordinary light, mesostasis only, dominated by randomly interlocking plagioclase microlites, some curved and hollow characteristic of rapid quenching.

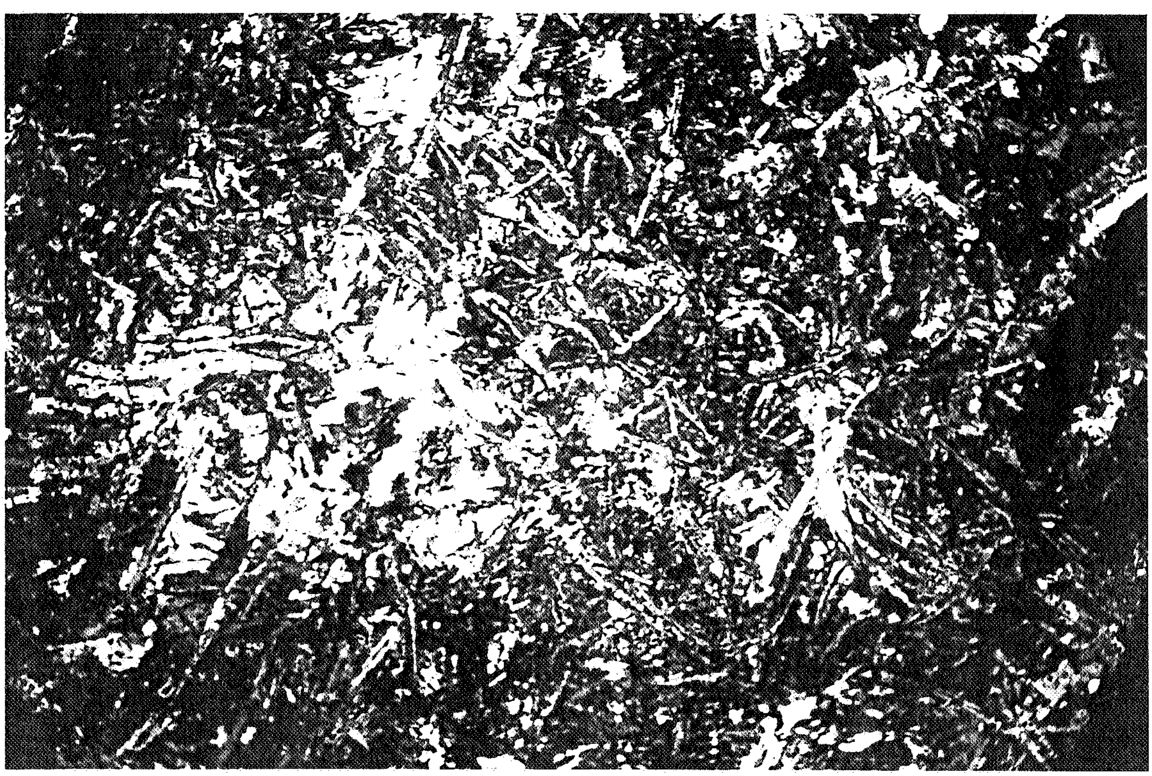


Fig 4 **1156565** **Scale : 10mm represents 0.32mm**

Xnicols equivalent of Fig 3, showing dispersed fine carbonate and sericite.

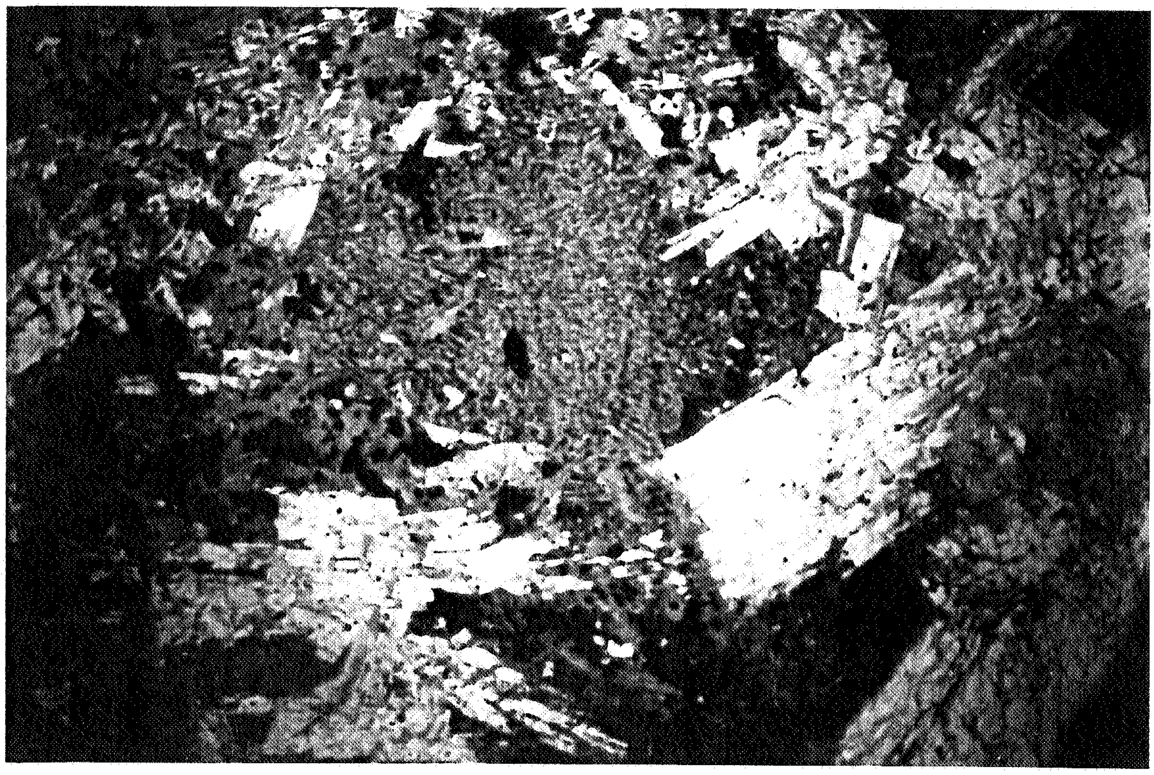


Fig 5 **1156566** **Scale : 10mm represents 0.32mm**

Ordinary light; similar "bimodal" basalt to 1156565, showing framework coarse plagioclase crystals, enclosing mesostasis here dominated by an area of ultrafine plagioclase microlites, with greenish extremely fine chlorite interstitial (with scattered fine granular opaque oxides).

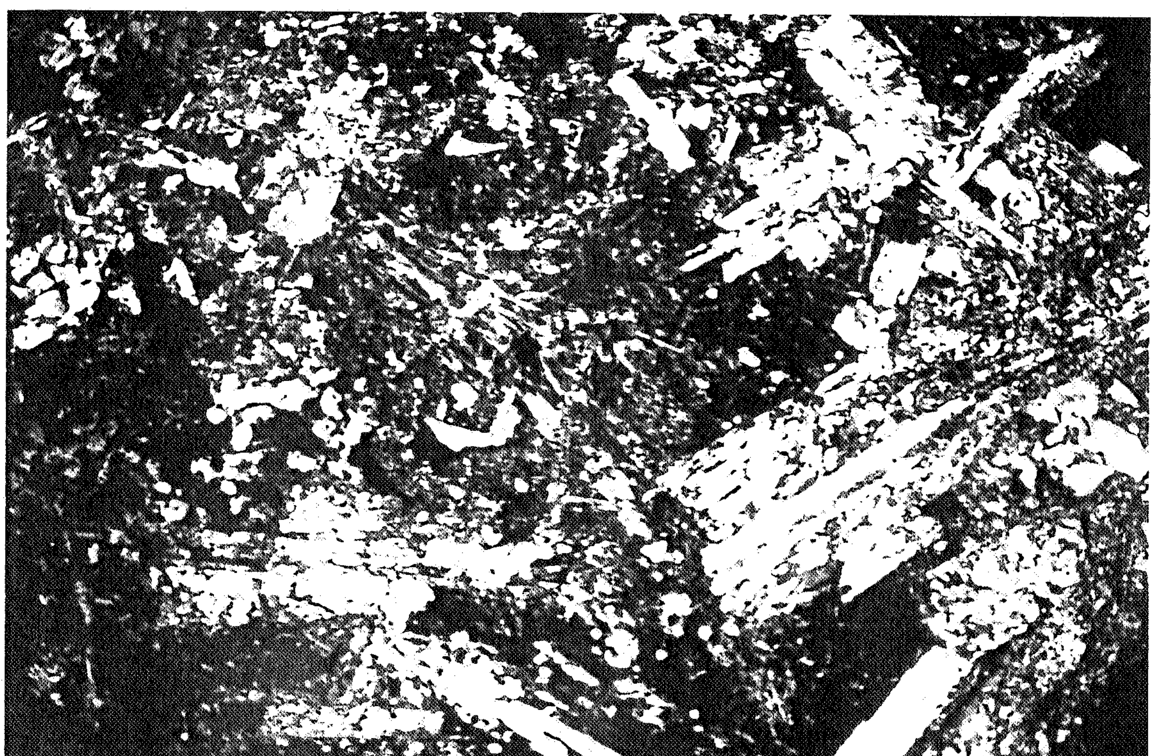


Fig 6 **1156566** **Scale : 10mm represents 0.32mm**

Xnicols equivalent of Fig 5, showing moderate fine sericitic alteration in coarser plagioclase.

Fig 7 **1156566** **Scale : 10mm represents 0.32mm**

Ordinary light, basically the same textural relationships s in Figs 5 and 6 (same sample), but more brownish material in mesostasis is extremely fine k-spar clouded with iron oxide dust.

END

OF

REPORT

CRA EXPLORATION PTY. LIMITED

SECOND AND FINAL REPORT FOR
EXPLORATION LICENCE 1974 CHARLOTTE WELL, SOUTH AUSTRALIA
THE PERIOD ENDING 7TH MAY, 1996

Gairdner SH5315, South Australia

AUTHOR: S.P. NEWBERY

COPIES TO: MESA
ET&I BOX HILL
CRAE ADELAIDE

DATE: JUNE, 1996

SUBMITTED BY:

ACCEPTED BY:

CRA

CRA EXPLORATION PTY LIMITED

A.C.N. 000 057 125

SUBJECT: ANNUAL REPORT FOR CHARLOTTE WELL EL 1974, SOUTH AUSTRALIA, FOR THE PERIOD ENDED 31ST JULY, 1995

AUTHOR: M.G. BARLOW & W.A. STEWART

DATE: 26TH SEPTEMBER, 1995

CRAE REPORT NO.: 21098

CONTENTS

LIST OF PLANS

Plan No.	Title	Scale
SAa 6255	Charlotte Well EL 1974 - S.A. Location plan	1:250 000

1. SUMMARY

EL 1974 was acquired on the 1st August 1994 as part of a programme to evaluate the areas potential for base metal mineralisation.

Exploration during that time has focused upon two main prospect areas namely Pascoe Dam and Pinery Dam. All work pertaining to these prospect areas is contained within previous reports.

A partial relinquishment of the tenement was made on the 11th July 1995.

No additional exploration activities have been completed since that time and the decision has been made to relinquish the remainder of the tenement.

2. INTRODUCTION

EL 1974 was granted on the 1st August 1994 over an area of approximately 2046 square kilometres. The EL location and boundaries are presented in plan SAa 6255.

A partial relinquishment of the tenement to an area of 234 square kilometres was effected on the 11th July 1995.

All previously completed exploration activities are documented in CRAE report 21098.

This report summarises the work completed during the second and final year of tenure.

3. CONCLUSIONS AND RECOMMENDATIONS

On the basis of the results of the initial programmes it was concluded that no additional follow-up work was justified.

The tenement was recommended for relinquishment.

4. INVESTIGATIONS

No exploration activities were completed during the reporting period.

S.P.

S.P. NEWBERY

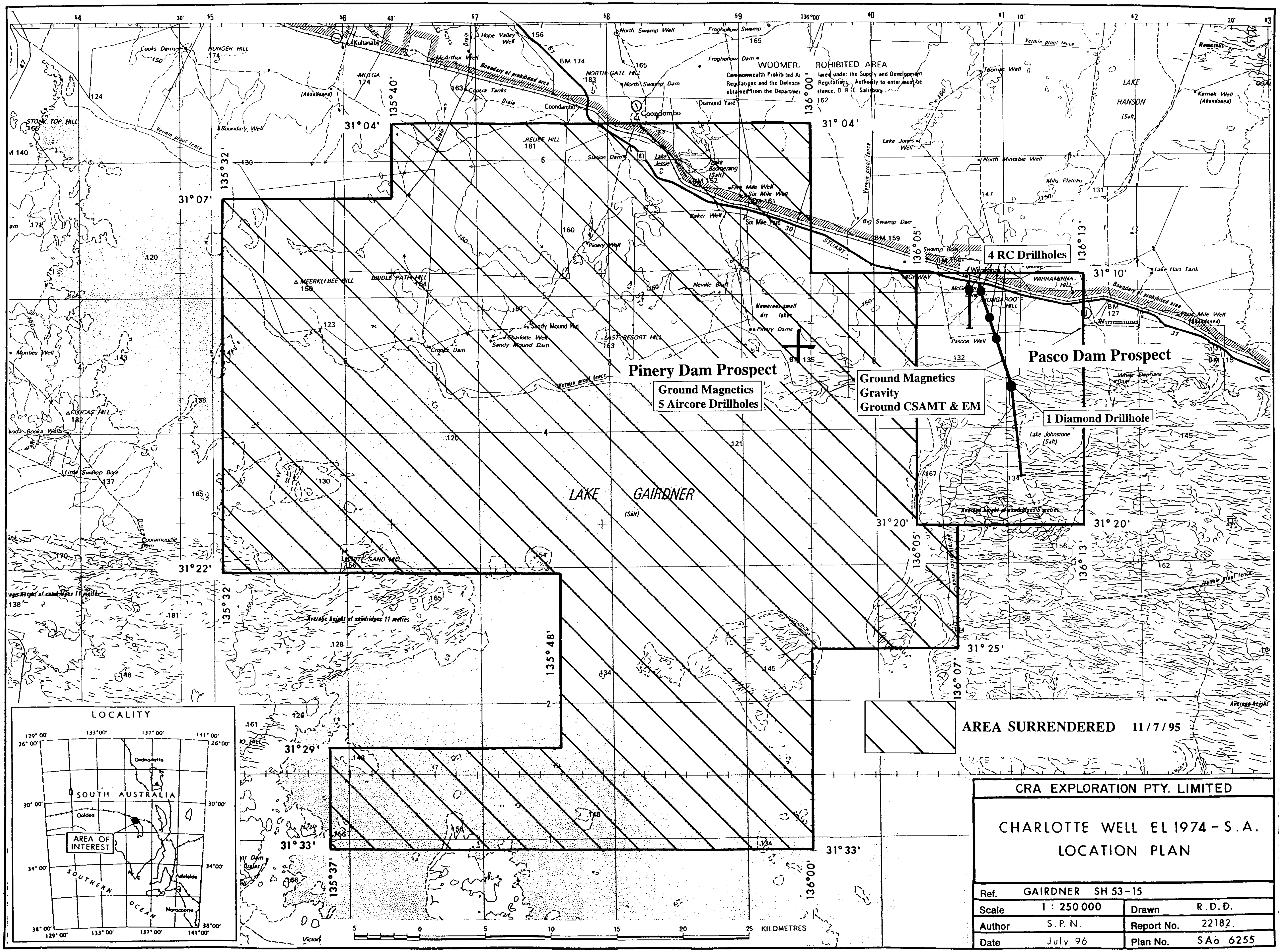
SPN/dt Reports#Charlotte Well#1974#ARPT#05/96

LOCATION

Gairdner SH53-15 1:250 000 sheet

KEYWORDS

Base Metals, Pinery Dam, Pascoe Dam, Charlotte Well.



WOOMERA PROHIBITED AREA
4 RC Drillholes
Pinery Dam Prospect
Ground Magnetics
5 Aircore Drillholes
Ground Magnetics
Gravity
Ground CSAMT & EM
Pasco Dam Prospect
1 Diamond Drillhole
LAKE GAIRDNER (Salt)
LAKE HANSON (Salt)
Lake Johnstone (Salt)
STUART HIGHWAY
Coondambo
Kultanaby
Wirraminna
31° 04'
31° 07'
31° 10'
31° 20'
31° 22'
31° 25'
31° 29'
31° 33'
135° 32'
135° 37'
135° 40'
135° 48'
136° 00'
136° 05'
136° 07'
136° 13'
AREA SURRENDERED 11/7/95
KILOMETRES
LOCALITY
SOUTH AUSTRALIA
AREA OF INTEREST
SOUTHERN OCEAN
Oodnadatta
Ooldea
Adelaide
Naracoorte
CRA EXPLORATION PTY. LIMITED
CHARLOTTE WELL EL 1974 - S.A.
LOCATION PLAN
Ref. GAIRDNER SH 53-15
Scale 1 : 250 000
Drawn R.D.D.
Author S.P.N.
Report No. 22182.
Date July 96
Plan No. SAo 6255

000122

END

OF

REPORT