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Yolande Joint Venture - Report for period ending
October 1985 - Henty River
Cyprus Minerals Australia Company*
Anon EL11/1985

8th November, 1985.

Mr. S. Taylor,
E.Z.I,
C/- West Coast Mines,
Rosebery,
Tasmania. 7470.

Cyprus Minerals,
5 Bedford Street,
New Town,
Tasmania. 7008.

Dear Sir,

YOLANDE JOINT VENTURE.
REPORT FOR PERIOD ENDING OCTOBER 1985.

SUMMARY.

EL11/85PT5

OF (1)

02_4730

Yolande Joint Venture - Report for period ending
October 1985 - Henty River
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Dear Sir,

YOLANDE JOINT VENTURE.
REPORT FOR PERIOD ENDING OCTOBER 1985.

SUMMARY.

A 25,000 scale composite basemap as well as three 1:10,000 more detailed maps for the licence were produced so as to transfer all of Mount Lyell's and Goldfields data.

An EM - 37 survey was conducted over a number of disseminated galena - sphalerite lenses which occur within the Henty River Grid. Three 500 x 300 metre loop set ups were employed on the down dip side of the stratigraphy to cover the prospective horizon. No responses of interest were obtained and no further work on this section of the grid is recommended. The prospective horizon is, however, open to the north.

Yours faithfully,
PHIL JONES AND ASSOCIATES



P.A. Jones,
CONSULTANT TO CYPRUS MINERALS.

MINERAL RESOURCES		
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YOLANDE JOINT VENTURE

EL 8/85

REPORT ON ACTIVITIES TO END OCTOBER 1985

INTRODUCTION

DATA COMPILATION

TRACK CUTTING

GEOPHYSICS

PROPOSED WORK

EXPENDITURE - MISSING

Appendix A: Interpretation of the EM37 Survey over the
Henty River Grid, Yolande (E.L. 11/85)

INTRODUCTION

The Henty River grid covers a small part of the steep sides and floor of the Henty River gorge, about 1 km south of the Hall Rivulet junction. The grid overlies a number of lenses of disseminated galena sphalerite mineralization set within a suite of lavas, tuffs and epiclastics of andesitic and minor acidic origin. The prominent Henty fault zone truncates the mineralization at the southern end of the prospect, however the mineralized zone is open to the north.

The exploration target is a volcanogenic massive sulphide deposit over which EM surveys and other tests have shown that while not excellent conductors, they are conductive enough to give recognizable signatures using such techniques as transient EM.

DATA COMPILATION

As much of the relevant data to be gleaned from the Mines Department and from such sources as West Coast Mines was obtained during the period for plotting onto a 1:25,000 regional basemap as well as onto 1:10,000 more detailed maps of the licence. The transfer of data is yet to be completed.

TRACK CUTTING

Prior to the commencement of a transient EM survey access was required to Mount Lyell's old Henty River grid as well as on the grid proper. All grid lines needed cleaning due to regrowth and windfall damage and some repegging was necessary. Lines in the region 4N to 1S needed extending to the west and a station interval of 30 metres was used as these were originally pegged at 100 foot spacings by Mount Lyell. All other grid lines were pegged at 25 metre intervals. All loop positions had to be cut as well as a track paralleling the Henty River linking up all the lines so as to facilitate the EM survey.

GEOPHYSICS

P and V Geophysical Services was contracted in July 1985 to conduct an EM-37 survey over the Henty River Prospect. Three loops were used to cover the prospective section of the grid (lines 3S to 13N) each with approximate dimensions of 500 x 300 metres. These were placed on the down dip side of the prospective stratigraphy (western side) with the leading edges being close to the top of the valley slope. The loops were roughly horizontal, however, the traverse lines sloped steeply (averaging 30°) to the east, down to the Henty River.

Weather conditions during the survey were atrocious, hampering the efficient running of the survey and led to a number of breakdowns.

John Bishop of Mitre Geophysics was contracted to interpret the data acquired from the survey. (Appendix 1.) He noted that the data quality was disappointing with only rough unedited plots being produced in the field, hampering effective evaluation. Furthermore he states that a string of anomalies on the western edges of lines 1N to 3N may be 'loop edge' effects and not due to sub-surface conductors. Similarly anomalies delineated overlying the river (adjacent to mineralization) between lines 1S and 1N are due to the fact that the data on the east side of the river was collected on a different date from that on the western side. Other possible anomalies generated during the survey were indicative of extremely poor conductors and occurred only in the 'early times'.

Bishop concluded that there are no responses of potential interest within the gridded area, however, he notes that the prospective horizon lies open to the north. He recommends that the area should be mapped and geochemically sampled prior to extending the EM coverage.

PROPOSED WORK

Exploration and expenditures for the period was conducted solely by Cyprus Minerals. However, the second phase of exploration and expenditures revolving around stream sampling, rock chip sampling and mapping in the vicinity of the Henty River Fault zone will be conducted by the joint venture partner, EZ.



MITRE GEOPHYSICS ^{APPENDIX A} PTY LTD

MINERAL EXPLORATION AND ENGINEERING CONSULTANTS

BUGGS LANE-

ELLIOTT

TASMANIA 7325

PHONE 004-363143

691006

INTERPRETATION OF THE EM37 SURVEY OVER THE
HENTY RIVER GRID, YOLANDE
(E.L. 11/85).

for

Cyprus Minerals Australia Company

by

Dr J.R. Bishop

CM/MG85/13
Oct., 1985

Summary	2
Introduction	3
Exploration Target and Geological Setting	3
Exploration History	3
Survey Details	4
Interpretation	4
Conclusions and Recommendations	5
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LIST OF FIGURES

- Figure 1. EM37 interpretation plan (1:2,500 scale).
- EM37 profiles (1:5,000 scale).

SUMMARY

An EM37 survey has been carried out over a number of disseminated galena-sphalerite lenses which lie within the Henty River grid. No responses of interest were obtained and no further work on this section of the grid is recommended. However it is noted that the prospective horizons are open to the north and further exploration of this area should be considered.

INTRODUCTION

The Henty River Grid covers a small part of the steep sides and floor of the Henty River gorge, about 1km south of the Hall Rivulet junction. The grid overlies a number of lenses of disseminated galena-sphalerite mineralisation.

At the time of the EM37 survey, the exploration program for Yolande (E.L. 11/85) was being managed by Amoco Minerals (now called Cyprus Minerals). Any work to be carried out in the immediate future is expected to be undertaken by the joint venture partner, EZ.

This report interprets the results from an EM37 survey carried out over the Henty River grid in June/July, 1985.

EXPLORATION TARGET AND GEOLOGICAL SETTING

The Henty River grid covers a suite of lavas and tuffs belonging to the Cambrian Mt Read Volcanics. Disseminated and veinlet galena-sphalerite mineralisation occurs in two horizons within the volcanics. The sulphides occur in four lenses averaging 10m wide by 50m long and grading 4% Pb, 2% Zn and 15g/t Ag. The mineralised horizons are (1) a thin zone of tuffaceous siltstones, shales and andesitic tuffs and (2) near the base of a conformably overlying sequence of andesitic lavas and tuffs (Meares, 1980). The prominent Henty Fault zone runs through the grid (closely following the course of the river) and this truncates the southern end of the prospect. However the mineralised horizons are apparently open to the north.

The exploration target is a volcanogenic massive sulphide deposit after the style of the Rosebery, Que River and Hellyer ore-bodies (all three deposits occurring within the Mt Read Volcanics). EM surveys and other tests have shown that while these deposits are not excellent conductors, they are certainly conductive enough to give recognisable responses using techniques such as the EM37, from depths in excess of 100m.

EXPLORATION HISTORY

Some of the mineralisation outcrops on the bank of the river and prospectors excavated three adits into this around the turn of the century. The area was re-discovered by a Mt Lyell Mining and Railway Co. geologist in 1972 and detailed exploration began in 1978 when the present grid was cut.

Magnetic and gradient array IP surveys were carried out in 1978/79 (Howland-Rose, 1979). Extensions to this coverage, plus two lines of pole-dipole IP were made in late 1979 (Howland-Rose, 1980). These surveys defined a number of chargeable zones through the grid. (The grid also overlies part of Mt Lyell's West Tyndall grid which was regionally covered by dipole-dipole

IP in 1967 (Hallof, 1968.) The area has also been soil sampled and this geochemical coverage extends south of the geophysics down to line 16S.

Mt Lyell drilled five holes into the prospect. DDH HR1 was drilled to the north of the outcropping mineralisation; traces of mineralisation were intersected at the bottom of the hole. The second hole, placed closer to the known occurrences, intersected disseminated and vein base-metal mineralisation around 150m down-hole. DDH HR3 was drilled to the north of HR1, beneath promising geochem values and a moderate IP anomaly, with disappointing results (see anomaly compilation plan; Meares et al, 1981). DDH's HR4 & HR5 (which were collared from the same site since HR4 failed to flatten sufficiently) tested a section of the geochem/IP zone to the north of HR3, again with disappointing results. Down-hole IP logging of HR5 indicated that the source of the IP anomaly was black shales. Mt Lyell's work is summarised in the company's annual reports for E.L. 9/66 between 1978 and 1981 (see references). Meares (1980) has carried out a detailed examination of the prospect.

Gold Fields Exploration (who took over from Mt Lyell in 1983) believed this to be a sufficient test of the prospect and relinquished the Yolande area in 1984 as part of their statutory reduction in the size of E.L. 9/66. Amoco Minerals successfully tendered for the area with EZ as a joint venture partner. Amoco considered that the drilling still left room for an economic-sized deposit and that the previous exploration had not investigated the area to any significant depth. It was therefore decided to carry out a deep-seeking, large-loop TEM survey.

SURVEY DETAILS

The survey was carried out by the Perth-based company P & V Geophysical Services in July, 1985. Three loops were used to cover the prospective section of the grid (lines 3S to 13N). These were placed on the western side of the lines, but the positions indicated in Figure 1 are approximate only. The leading edges of the loops were close to the top of the valley slope and the loops were roughly horizontal, however the traverse lines sloped steeply (averaging around 30°) to the east, down to the river.

Lines 3S, 2S and 5N to 13N were surveyed in metric units and a station spacing of 50m was used for these lines. Lines 1S to 4N were surveyed in imperial units and a station spacing of 100ft was used. All three components were measured.

INTERPRETATION

The results of the survey were disappointing; no drill targets were defined. The interpreted responses are indicated in Figure 1, with the channels on which the anomalies can be recognised,

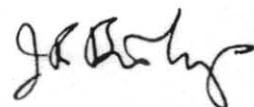
noted. (These responses were mostly picked from the vertical component data, which was usually the least noisy. The data quality was disappointing. Only rough unedited plots were produced in the field which did not permit an effective evaluation of the data.)

Only one anomaly occurred within the prospective horizon (at 12N/2400E), with another adjacent to it (at 9N/2700E). However like all of the other responses, these occurred only in the 'early-time' and they indicate extremely poor conductors.

The responses interpreted overlying the river between lines 1S and 1N may not be real, but rather may be due to the fact that the data on the east side of the river was probably collected on a different date from that on the western side. (In which case, the survey has not responded to the known (disseminated) mineralisation.) Similarly, the responses indicated on the western edges of lines 1N to 3N may be 'loop-edge' effects and not due to sub-surface conductors.

CONCLUSIONS AND RECOMMENDATIONS

No responses of potential interest have been interpreted and no further work is recommended here. However, the geological map (used as the base for Figure 1) shows the horizons containing the mineralisation as being open to the north and since the lenses are considered to be stratabound (though probably concentrated by tectonic movement associated with the fault), it is suggested that more detailed exploration should be carried out in this direction. Specifically, it is recommended that the area should be mapped and geochemically sampled before extending the EM coverage.



J.R. Bishop
Oct., 1985.

REFERENCES

- Hallof, F.G., 1968. Report on the further IP surveys in the Mt Tyndall area. McPhar Geophysics report for Mt Lyell.
- Howland-Rose, A.W., 1979. A report on the IP and magnetic surveys over the West Henty grid. Scintrex report Tas-062B for Mt Lyell.
- Howland-Rose, A.W., 1980. Data for IP and magnetic surveys over White Spur, Henty River, Henty Fault Zone (and West Tyndall and Lynch Ck). Scintrex report Tas-073D for Mt Lyell.
- Meares, R.M.D., 1980. Geology, mineralisation and alteration of the southern Henty Gorge lead-zinc prospect, Western Tasmania. MSc thesis submitted to James Cook Univ.
- Meares, R.M.D., Walter, A.C. and Hutton, M.J., 1980. E.L. 9/66 annual report 1979-80. Mt Lyell report.
- Meares, R.M.D., Hutton, M.J. and Komyshan, P., 1981. E.L. 9/66 annual report 1980-81. Mt Lyell report.
- Reid, K.O., Meares, R.M.D., Walter, A.C., Hutton, M.J. and Drake, G., 1979. E.L. 9/66 annual report 1978-79. Mt Lyell report.

GEOLOGICAL DESCRIPTION

- QUATERNARY**
- Qal 03 Alluvium
 - Qpm 01 Pleistocene moraine
- CARBONIFEROUS - JURASSIC**
- P-J Permo-Carboniferous beds and Jurassic dolerite
- SILURO-DEVONIAN**
- S-D 71 Eldon Group undifferentiated
- ORDOVICIAN**
- Og 18 Gordon Limestone (under superficial cover in most areas)
- LATE CAMBRIAN - EARLY ORDOVICIAN**
- Oc 17 Owen Conglomerate and correlatives including upper sandstone unit, lower Newton Creek Sandstone Member, basal volcanoclastic conglomerate

CAMBRIAN SEQUENCE

- NORTH OF HENTY FAULT ZONE**
- DUNDAS GROUP - "ROSEBERY GROUP"**
- DRu 26 Conglomerate
 - DRu 70 Quartzwacke - siltstone - mudstone sequences
 - DRu 50 Dolomite - siltstone - sandstone
 - DRu 48 Felsic volcanics, including quartz - feldspar porphyry
 - DRu 42 Undifferentiated greywacke - mudstone - conglomerate - tuff sequences
 - CC Secondary carbonate and/or chert bodies
 - Eq 21 Gabbro
- HOWARDS ROAD VOLCANO - SEDIMENTARY SEQUENCE**
- HRu 47 Felsic tuff and agglomerate, with minor siltstone
 - HRu 49 Felsic lava, quartz - feldspar - phytic
 - HRu 42 Greywacke, siltstone, minor tuff
 - HRu 44 Undifferentiated
- CENTRAL VOLCANIC SEQUENCE**
- CVI 09 Felsic intrusives with possible lavas
 - CVI 08 Felsic lavas, mainly feldspar - phytic
 - CVp 10 Felsic pyroclastics, mainly feldspar - phytic
 - CVa 16 Bedded shale - sandstone - tuff units
 - CVI 16 Bedded tuff - agglomerate unit
 - CVa 11 Quartz - phytic tuff, agglomerate
 - Es 22 Mafic dykes
 - CVu 13 Undifferentiated

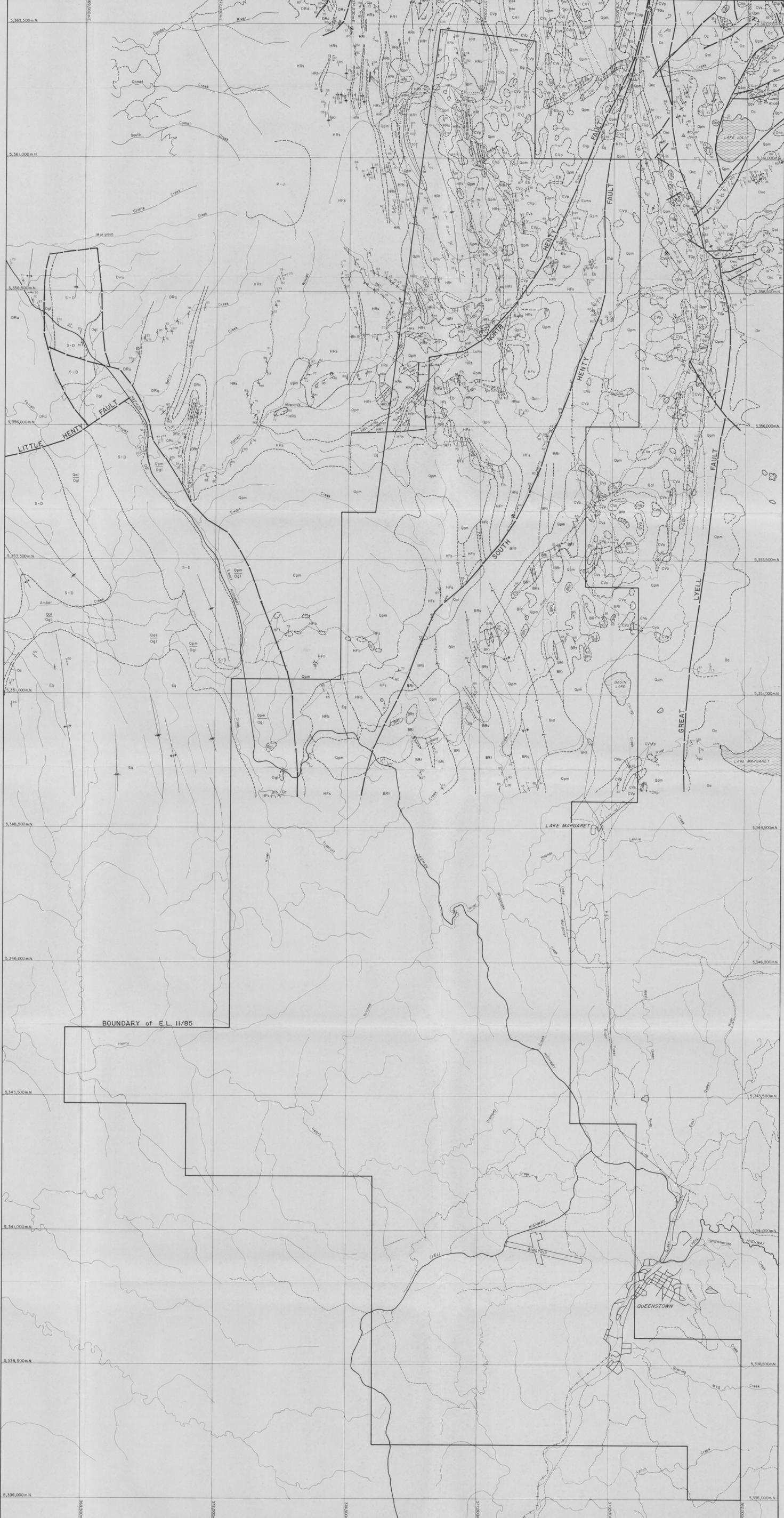
- BETWEEN NORTH AND SOUTH HENTY FAULTS**
- HFu 33 Greywacke, mudstone, with minor conglomerate (c)
 - HFu 47 Felsic tuff
 - HFu 27 Andesitic volcanics - pyroclastics, lavas
 - HFb 24 Basaltic to intermediate volcanics - lavas, pyroclastics
 - Eq 30 Quartzwacke - siltstone sequence west of Zealand Highway
 - Eq 21 Gabbro
 - Eum 23 Serpentinite and ultramafic rocks
- SOUTH AND EAST OF HENTY FAULT ZONE**
- TYNDALL GROUP**
- Tgl 48 Laves - quartz - feldspar - phytic
 - Tgp 43 Pyroclastics - quartz - feldspar - phytic
 - Tgu 43 Undifferentiated - includes volcanoclastic conglomerate
- CENTRAL VOLCANIC SEQUENCE**
- CVI 08 Felsic lavas, dominantly feldspar - phytic
 - CVp 10 Felsic pyroclastics
 - CVu 16 Siltstone - sandstone - minor tuff lenses
 - CVa 27 Andesitic volcanics - lavas, intrusives, pyroclastics
 - CVp 48 Quartz - feldspar porphyry

- BRADSHAW'S ROAD VOLCANO - SEDIMENTARY SEQUENCE**
- BRu 69 Vitric tuff, vitric-crystal tuff, siltstone, sandstone
 - BRu 68 Dominantly siltstone and greywacke
 - BRu 51 Felsic porphyry intrusives

- N.B. - Colour numbers from the Derwent No. 19 series.
- Geological boundary - approximate, inferred, concealed.
 - Fault - approximate, inferred.
 - Layering in igneous rock - dipping, vertical.
 - Bedding - facing unknown, facing known, vertical, overturned.
 - Cleavage - dipping, vertical.
 - Fold axis - syncline, anticline.
 - Prospect.
 - Fossil locality.

TOPOGRAPHIC LEGEND

- Highways
- Road/Track
- Lakes
- E.L. Boundary
- H.E.C. Power Lines
- Mountains
- Rivers/Creeks



02_4730

Volcanic and Sedimentary - Report for mineral leasing
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 E.L.11/85

ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED
 MINERAL RESOURCES DIVISION
 PROJECT YOLANDE JV E.L. 11/85

GEOLOGY OF THE HENTY RIVER
 TO
WILLAMSFORD AREA
 BY K.D. CORRETT (1984)

Completed: 1 MAT Date: 28-11-85 Scale: 1:25,000
 AMC Longitude
 Drawn: N.W.D.S. File No:
 PLAN NO: AO-519-0020

Reference: E.Z./MG 88/10

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Y4

Yolande Joint Venture - Report for period ending
October 1985 - Henty River
Cyprus Minerals Australia Company*
Anon EL11/1985

691014

EM37 DATA - 1985

**Henty River Prospect
Yolande J.V. 11/85**

reference

*Bishop JR., 1985, Interpretation of the
EM-37 Survey over the
Henty River grid, Yolande
E.L. 11/85. for Cyprus Minerals
Aust. Co. Oct 1985. CM/MG85/13
(Mine Geophysics Report number).*

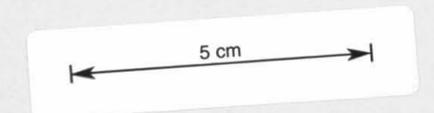
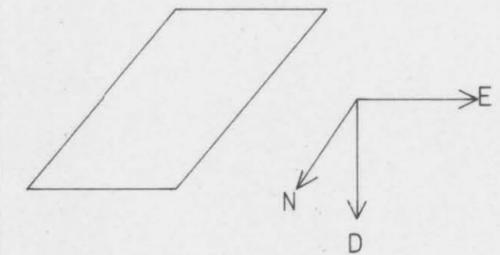
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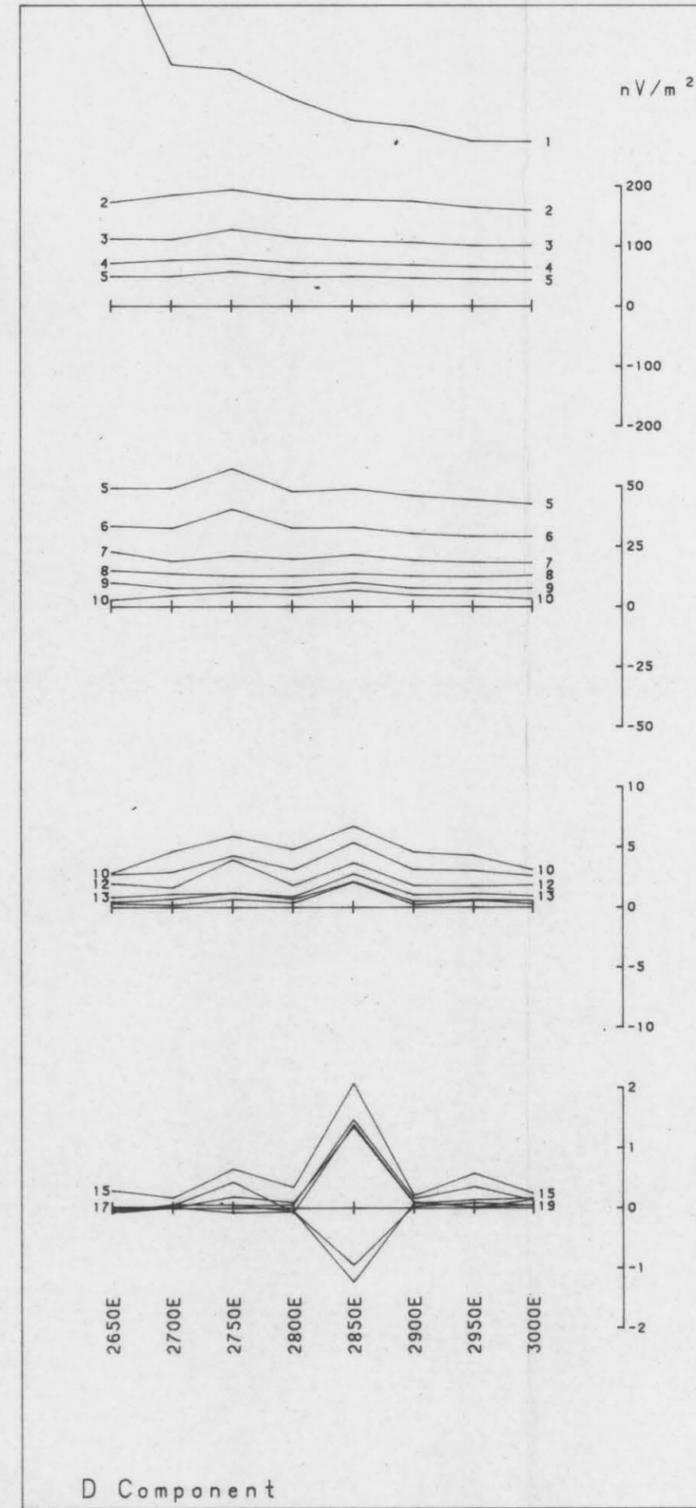
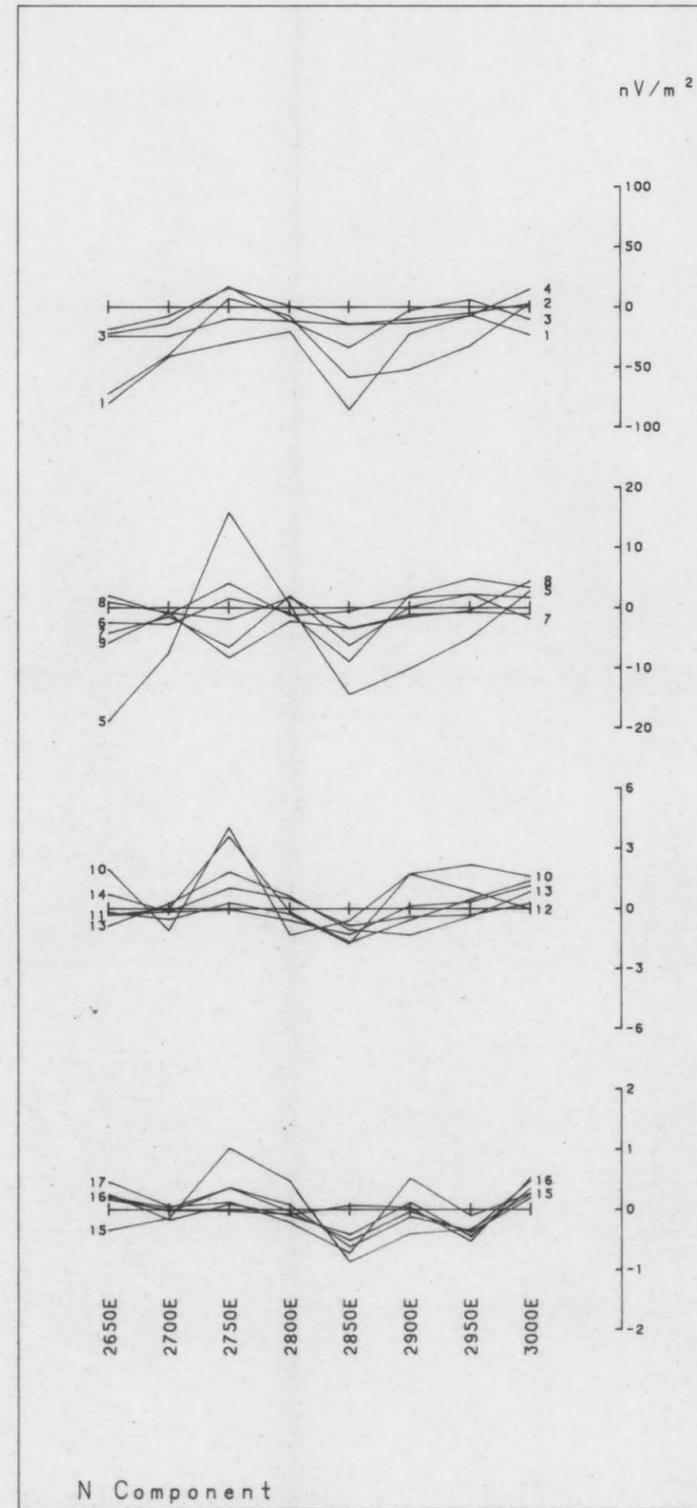
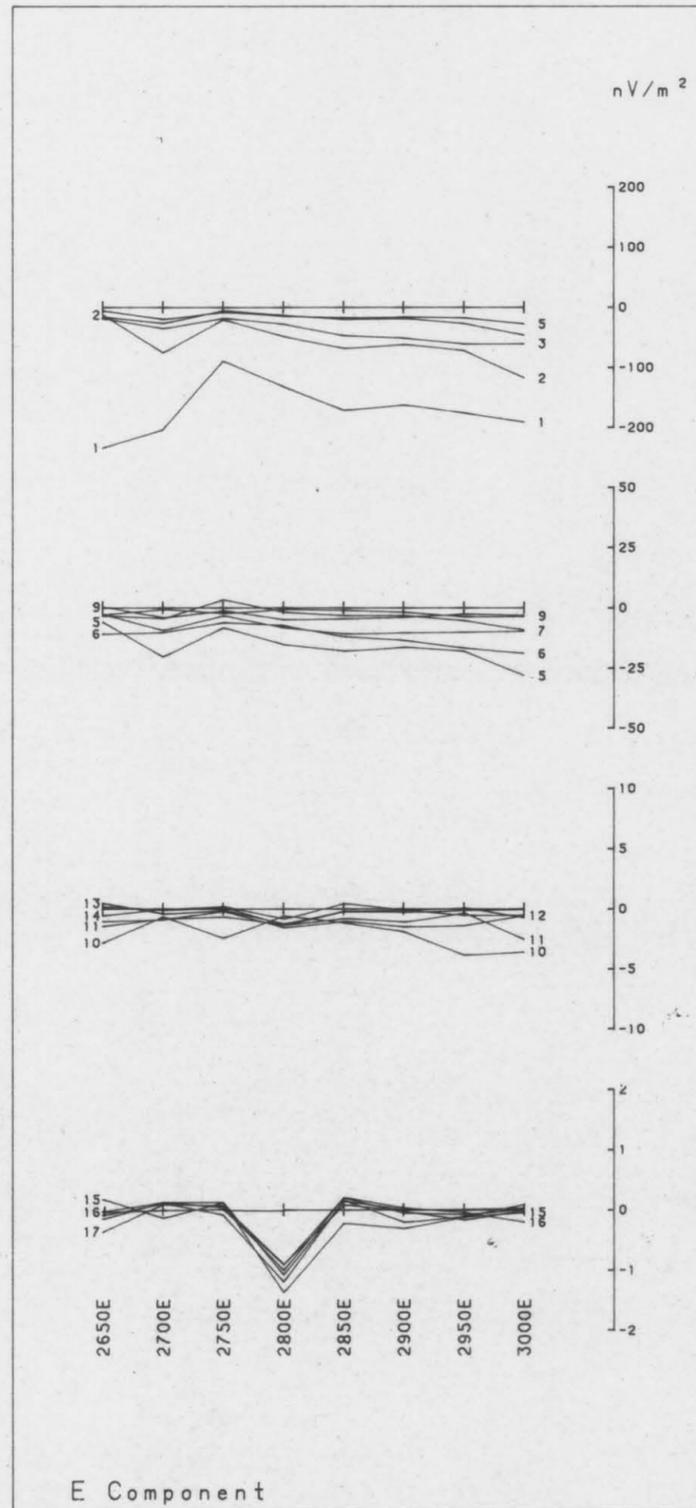
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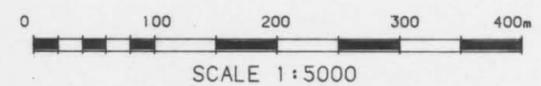
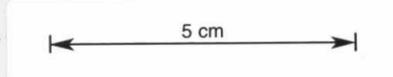
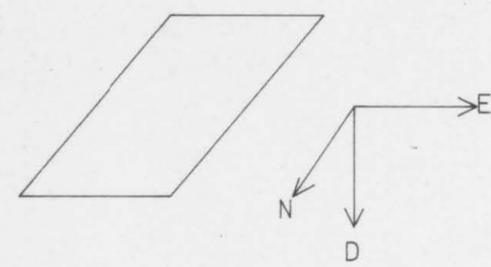
AMOCO MINERALS

PROJECT : HENTY RIVER
AREA : YOLANDE
LINE : 3S
COMP. : E , N & D
Tx LOOP : Tx 3



EM 37
TRANSIENT
ELECTROMAGNETIC SURVEY

FIXED LOOP CONFIGURATION



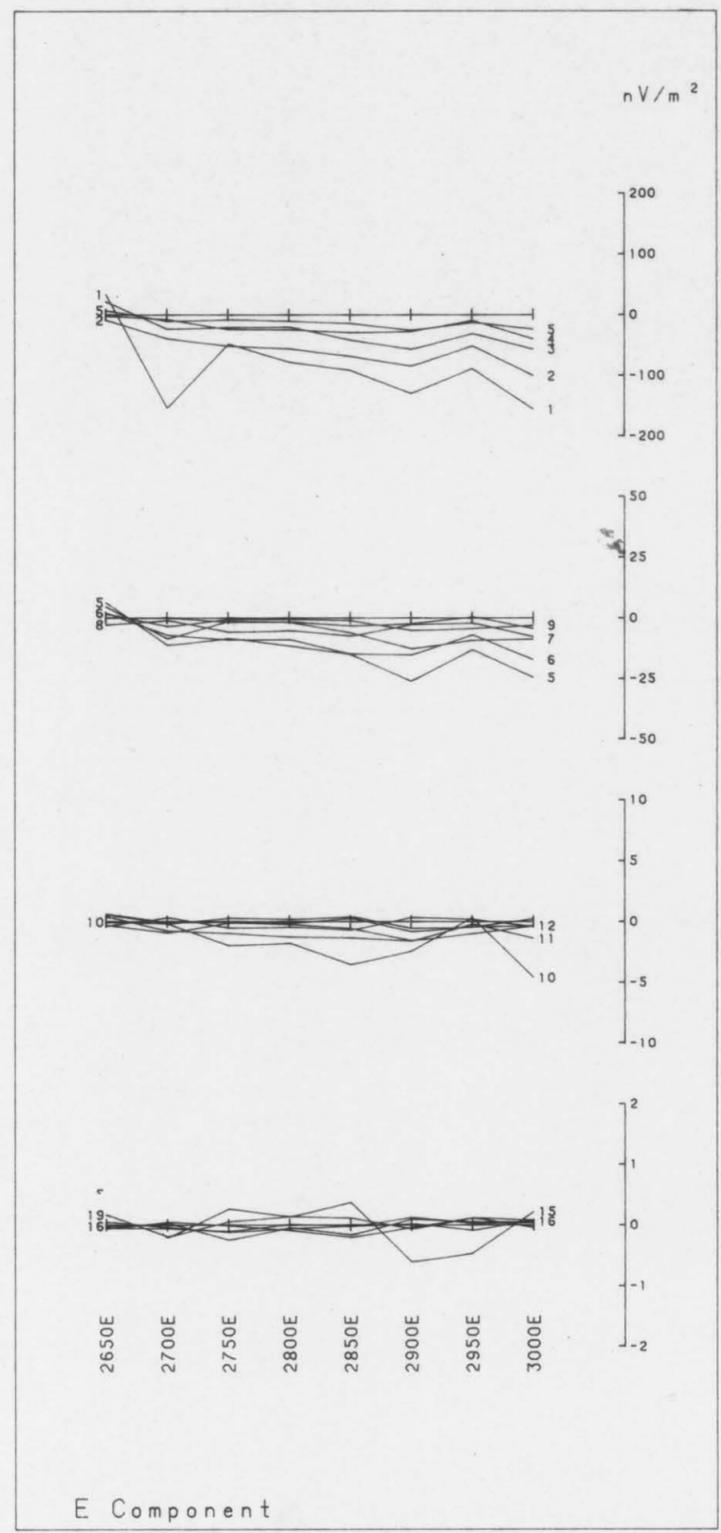
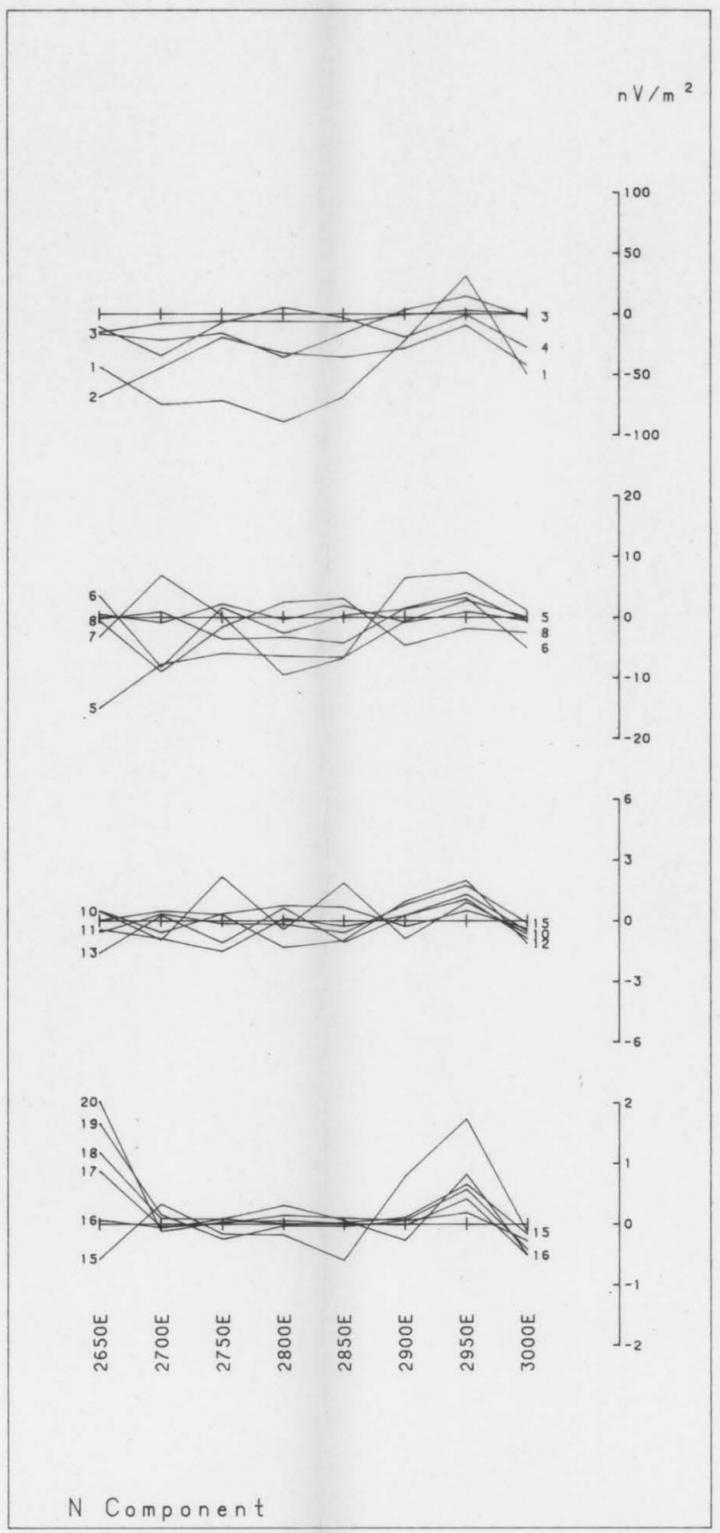
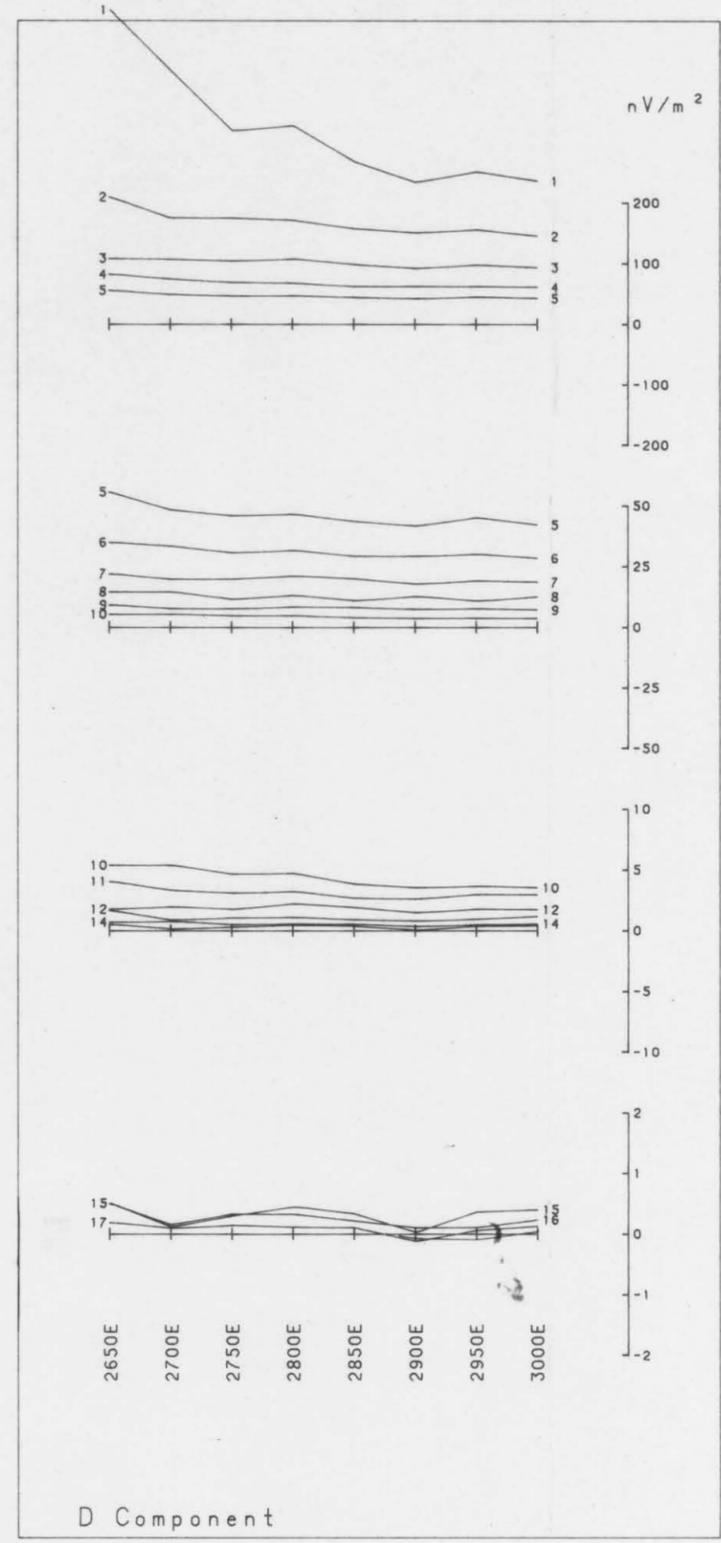
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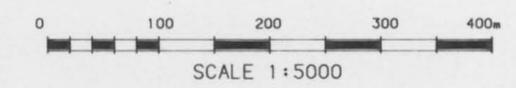
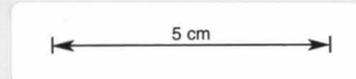
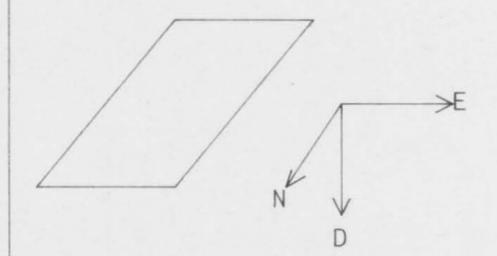
AMOCO MINERALS

PROJECT : HENTY RIVER
 AREA : YOLANDE
 LINE : 2S
 COMP. : E , N & D
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EM 37 TRANSIENT ELECTROMAGNETIC SURVEY

FIXED LOOP CONFIGURATION



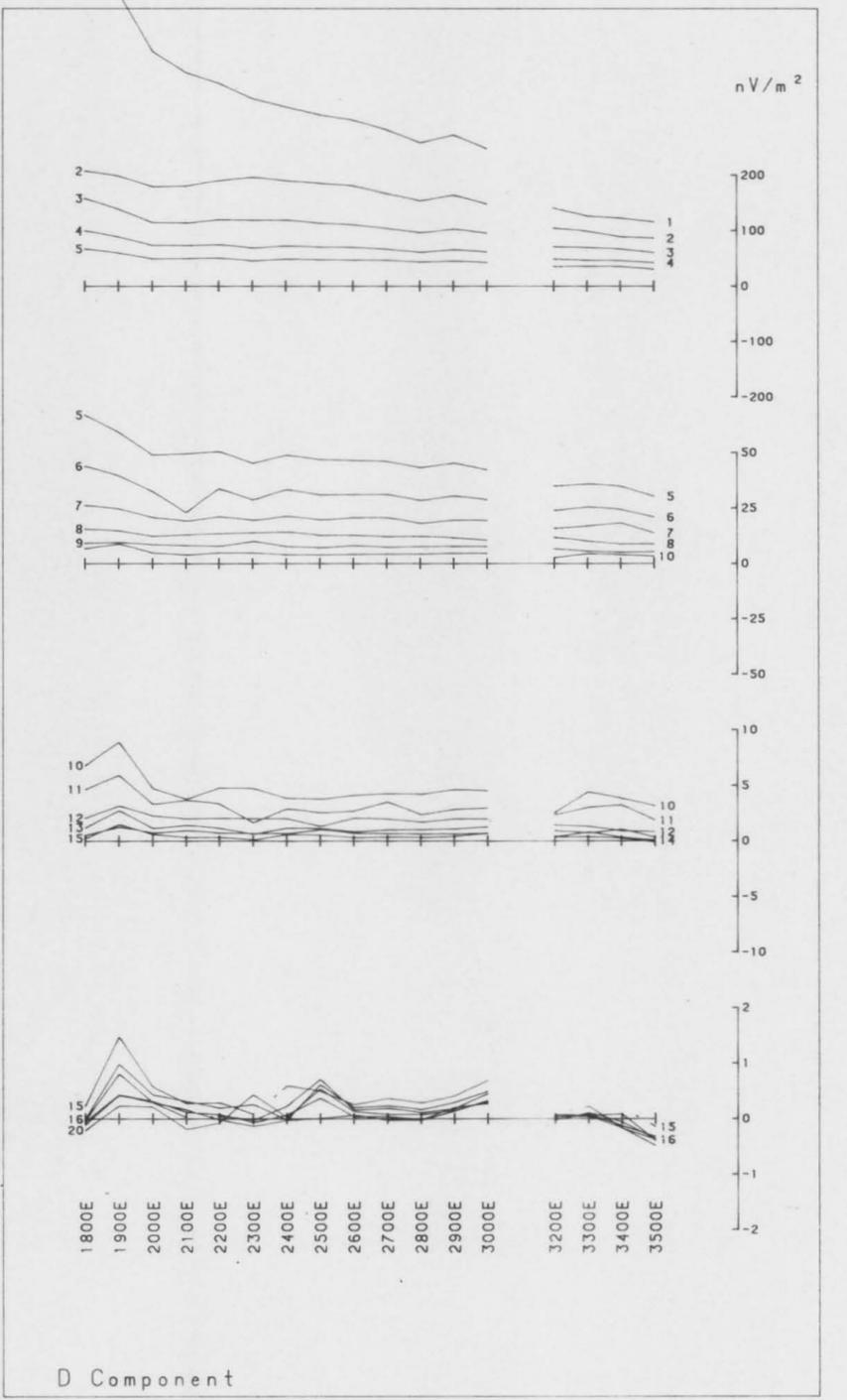
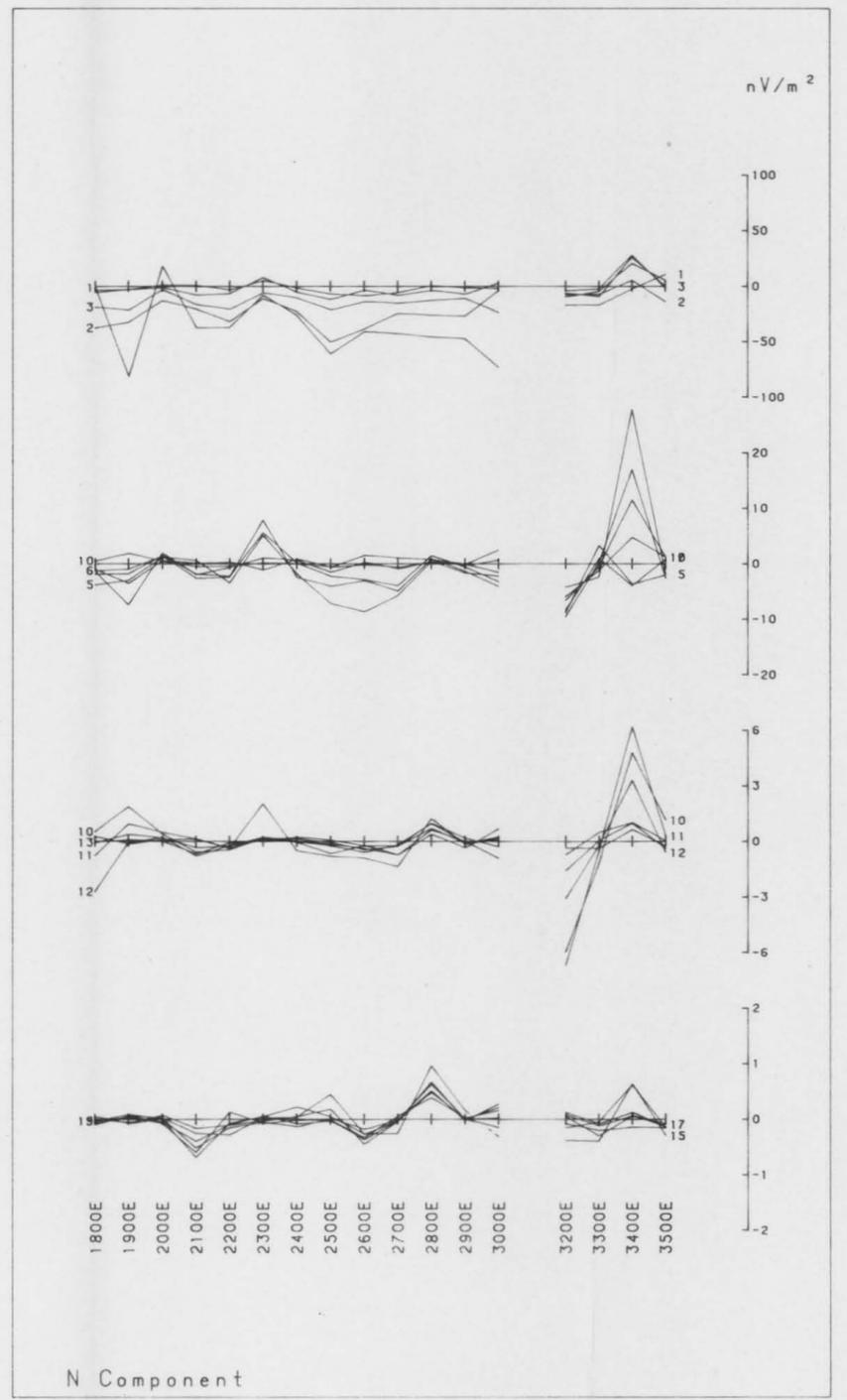
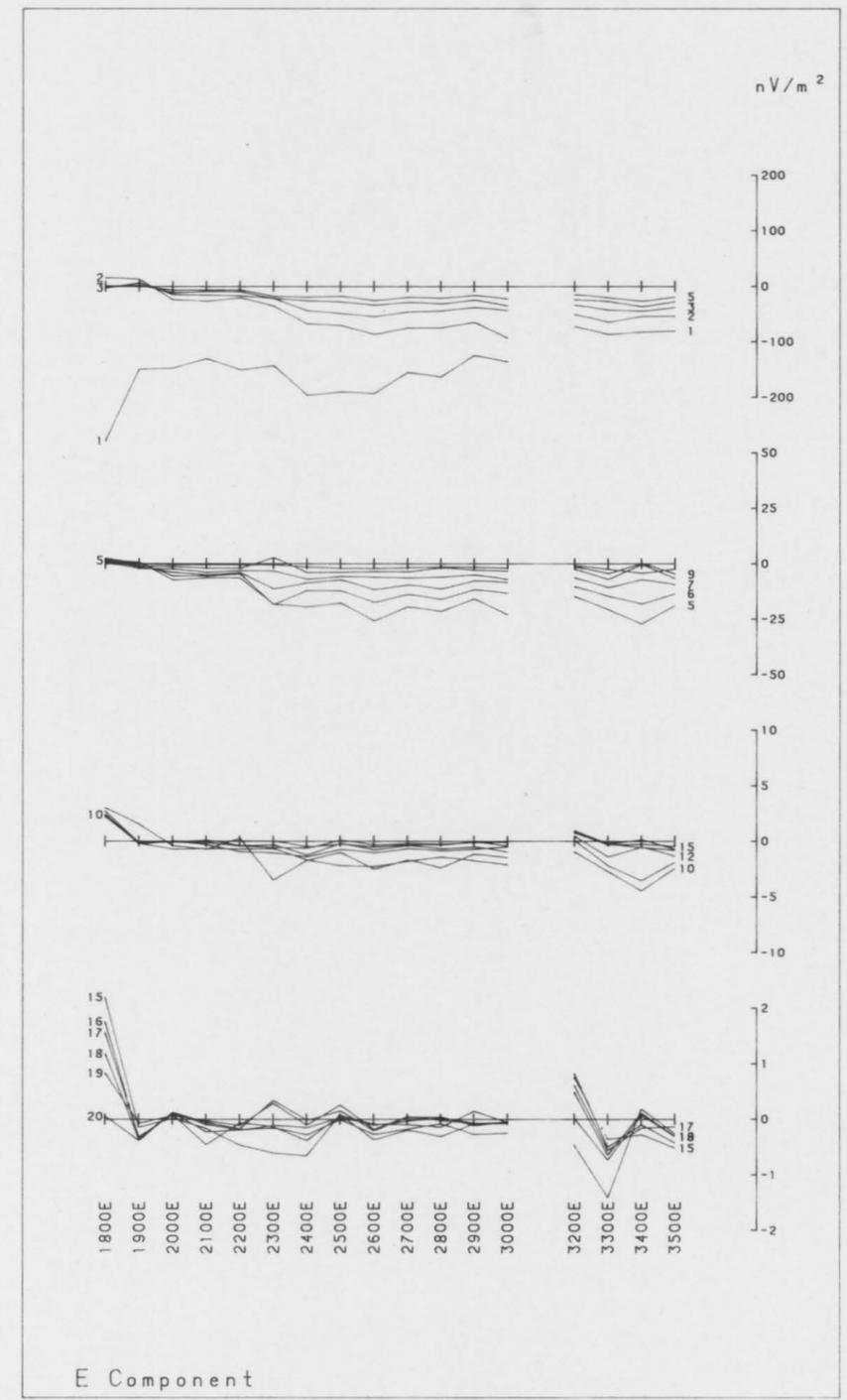
SURVEY SPECIFICATIONS

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	:	2300E	3S	2600E	3S

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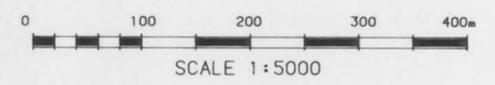
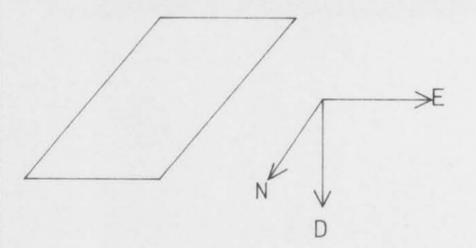
AMOCO MINERALS

PROJECT : HENTY RIVER
 AREA : YOLANDE
 LINE : 1S
 COMP. : E , N & D
 Tx LOOP : Tx 3



EM 37
TRANSIENT
ELECTROMAGNETIC SURVEY

FIXED LOOP CONFIGURATION



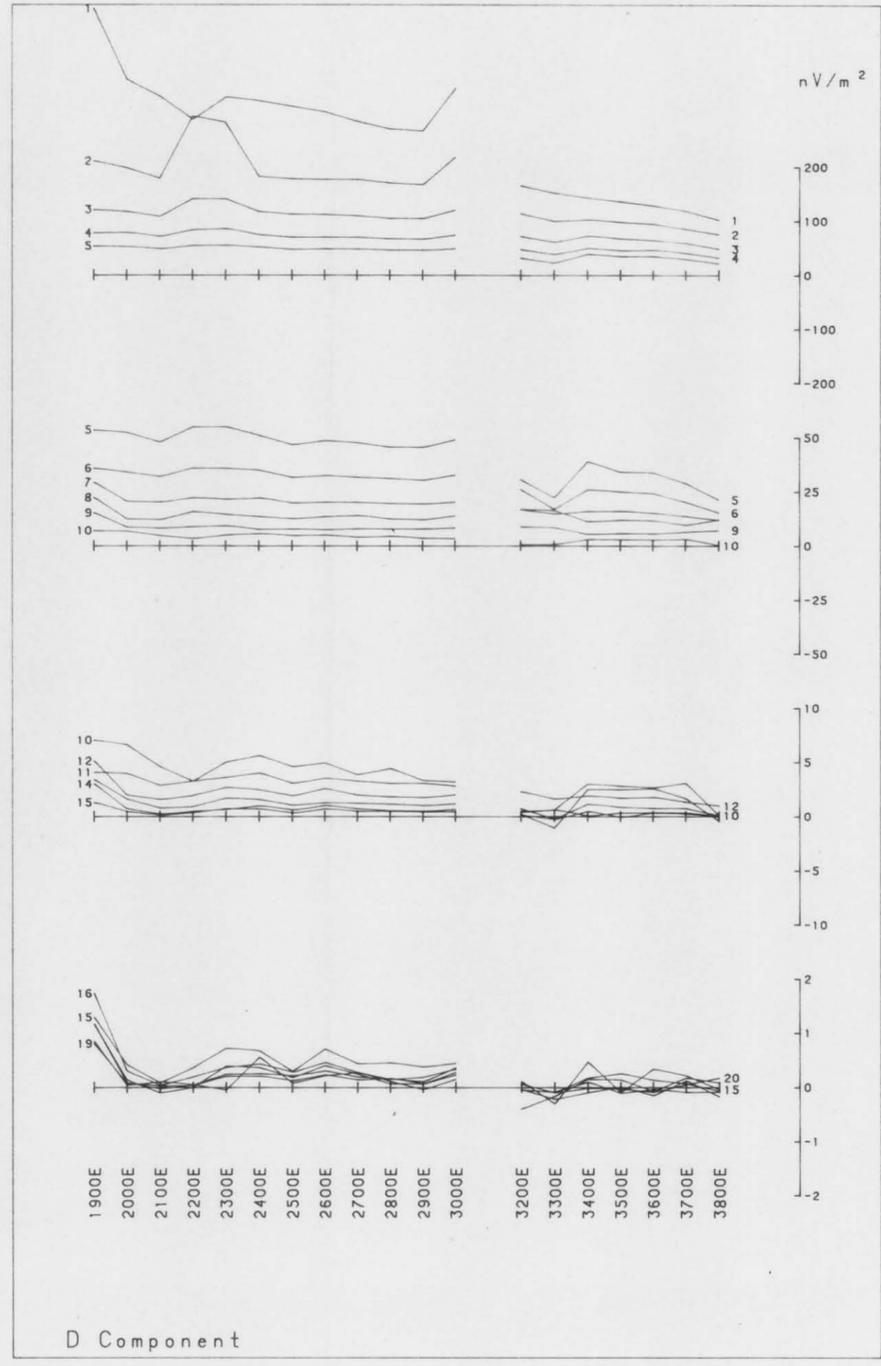
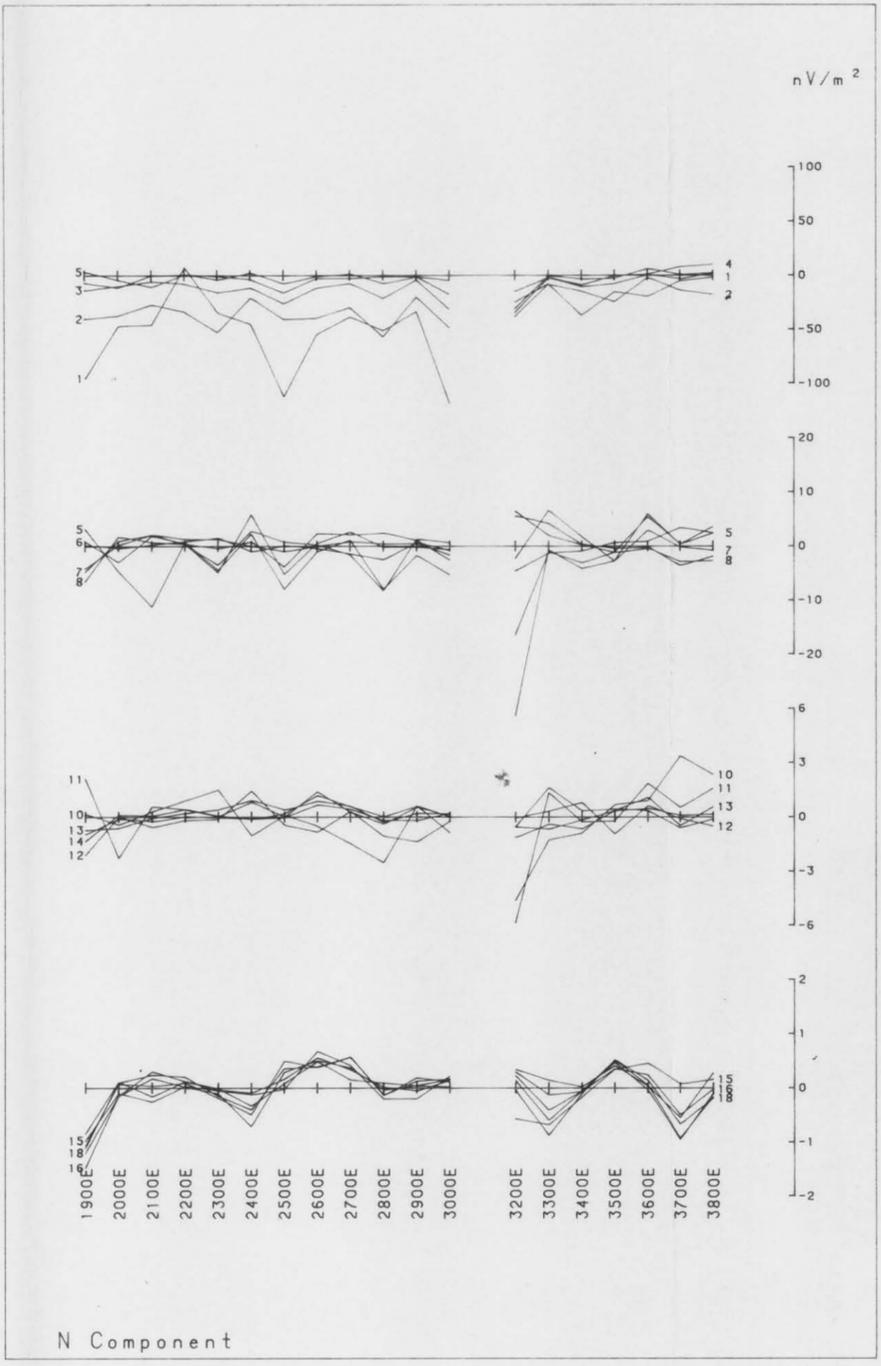
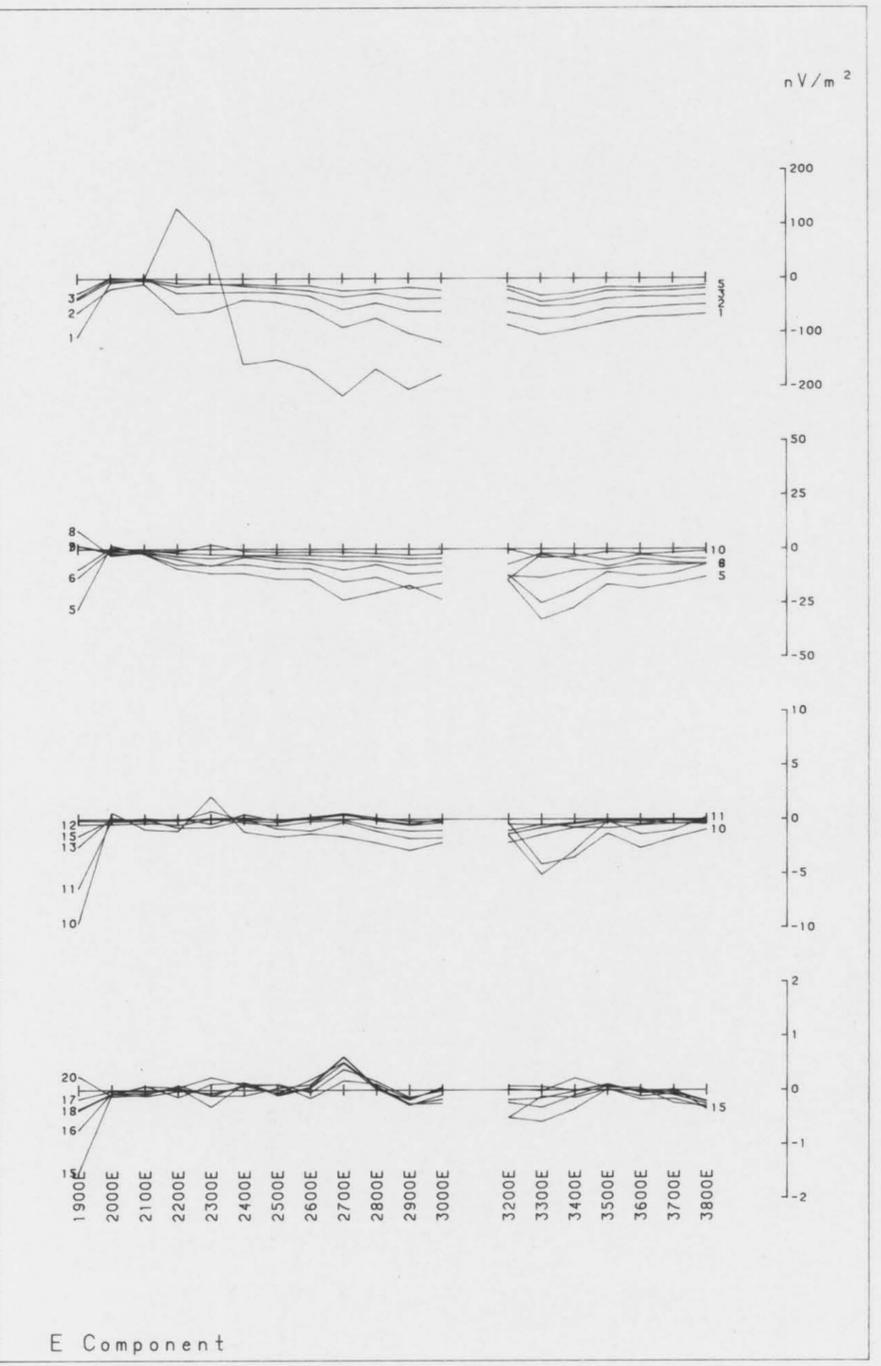
SURVEY SPECIFICATIONS

LOOP CO-ORDS : 2150E 4N 2450E 4N
: 2300E 3S 2600E 3S

Tx TURN OFF TIME : 195 usec
FIRST GATE TIME : 0.08 msec
CURRENT : 12.0 amps
FREQUENCY : 25 Hz
INTEGRATION TIME : 256
SYNC. MODE : XTAL
SURVEYED BY : P.P
DATE : MAY - JULY 1985
JOB NUMBER : 333
PROCESSING : TESLA 10 PTY LTD

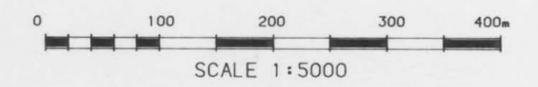
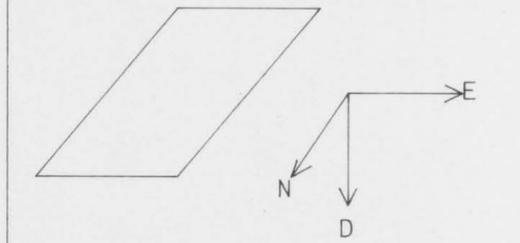
AMOCO MINERALS

PROJECT : HENTY RIVER
AREA : YOLANDE
LINE : ON
COMP. : E, N & D
Tx LOOP : Tx 3



**EM 37
TRANSIENT
ELECTROMAGNETIC SURVEY**

FIXED LOOP CONFIGURATION



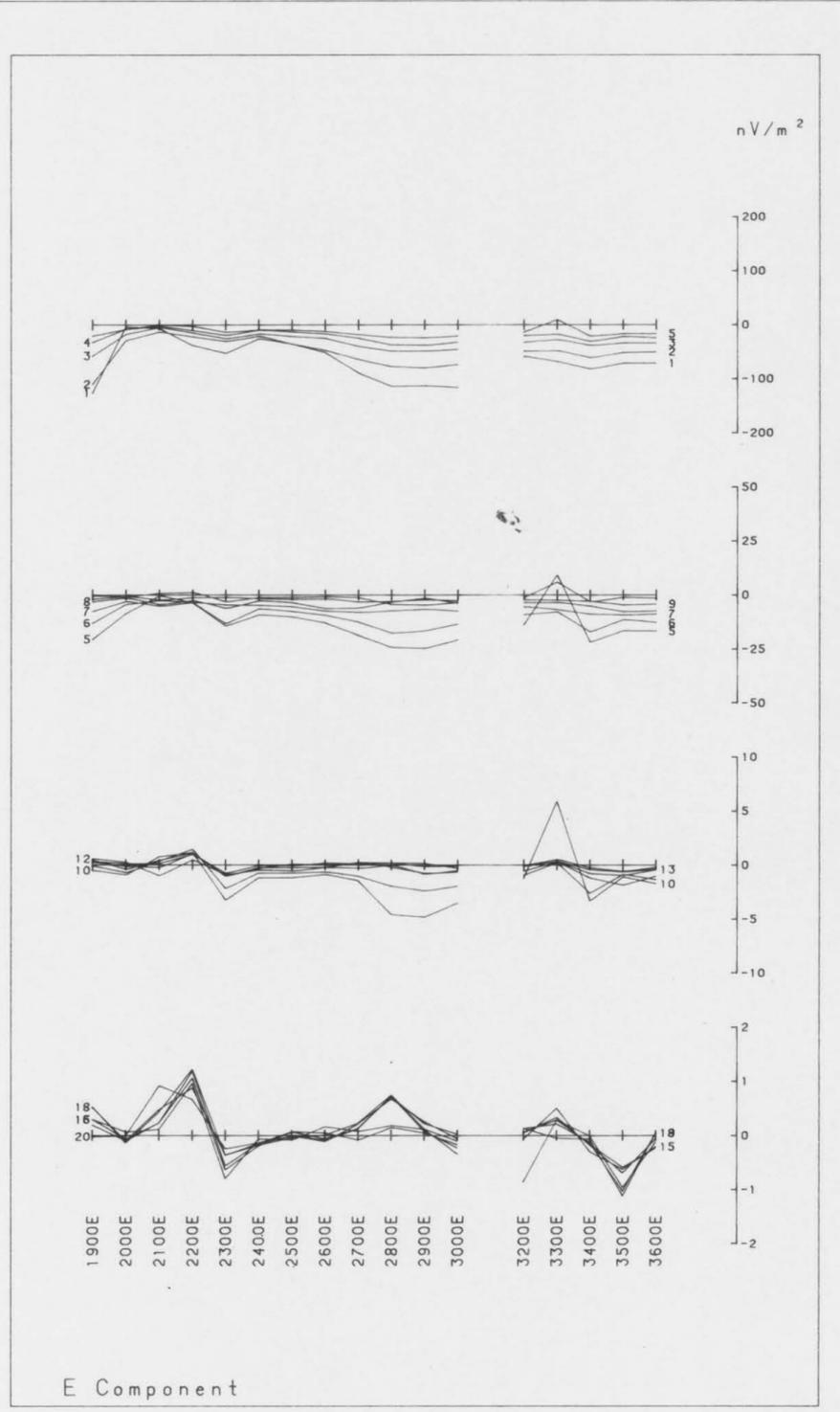
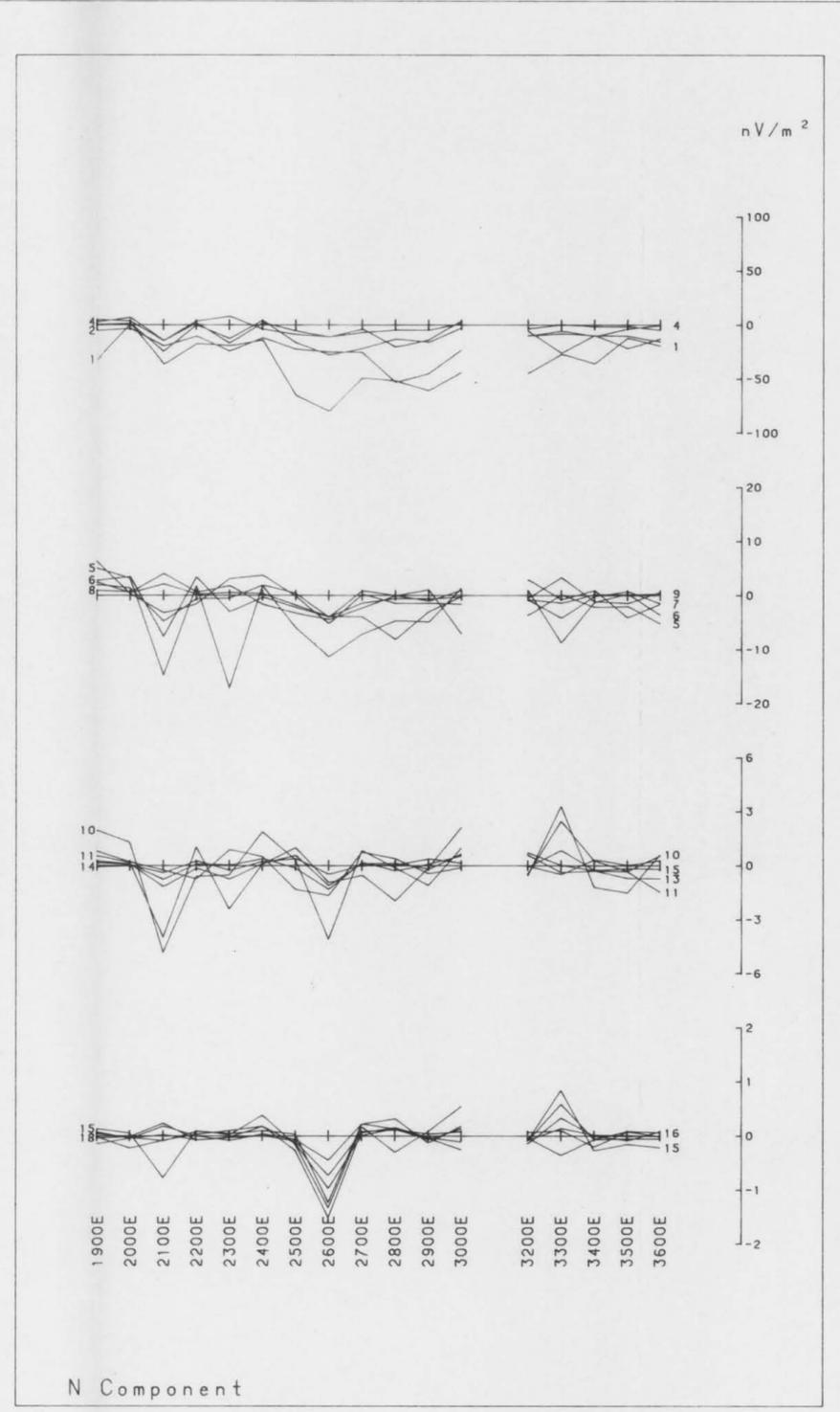
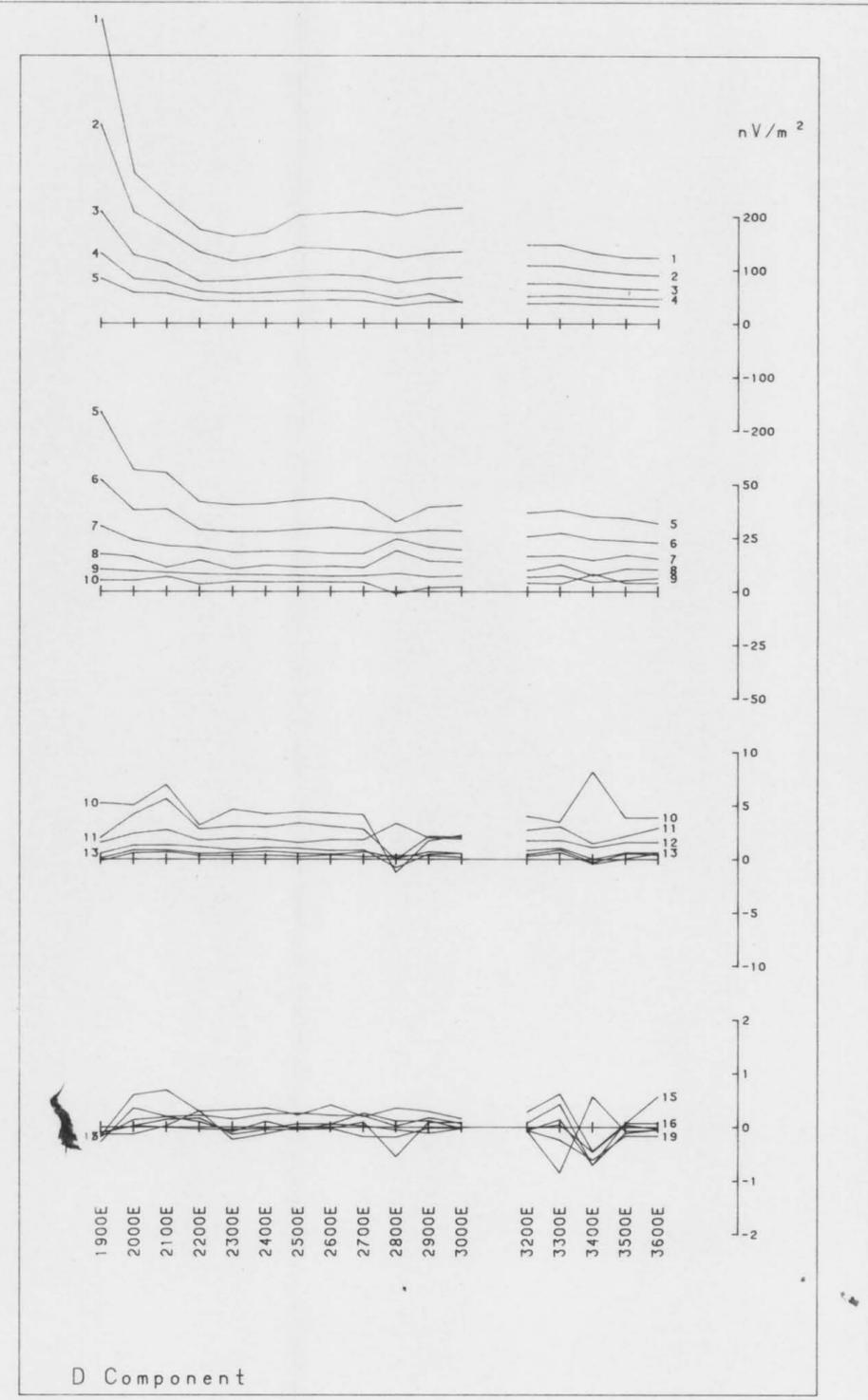
SURVEY SPECIFICATIONS

LOOP CO-ORDS : 2150E 4N 2450E 4N
 : 2300E 3S 2600E 3S

Tx TURN OFF TIME : 195 usec
 FIRST GATE TIME : 0.08 msec
 CURRENT : 12.0 amps
 FREQUENCY : 25 Hz
 INTEGRATION TIME : 256
 SYNC. MODE : XTAL
 SURVEYED BY : P-P
 DATE : MAY -JULY 1985
 JOB NUMBER : 333
 PROCESSING : TESLA 10 PTY LTD

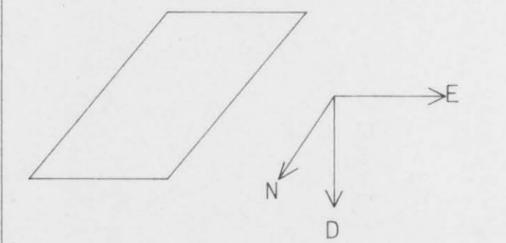
AMOCO MINERALS

PROJECT : HENTY RIVER
 AREA : YOLANDE
 LINE : 1N
 COMP. : E , N & D
 Tx LOOP : Tx 3



**EM 37
TRANSIENT
ELECTROMAGNETIC SURVEY**

FIXED LOOP CONFIGURATION



5 cm



SCALE 1:5000

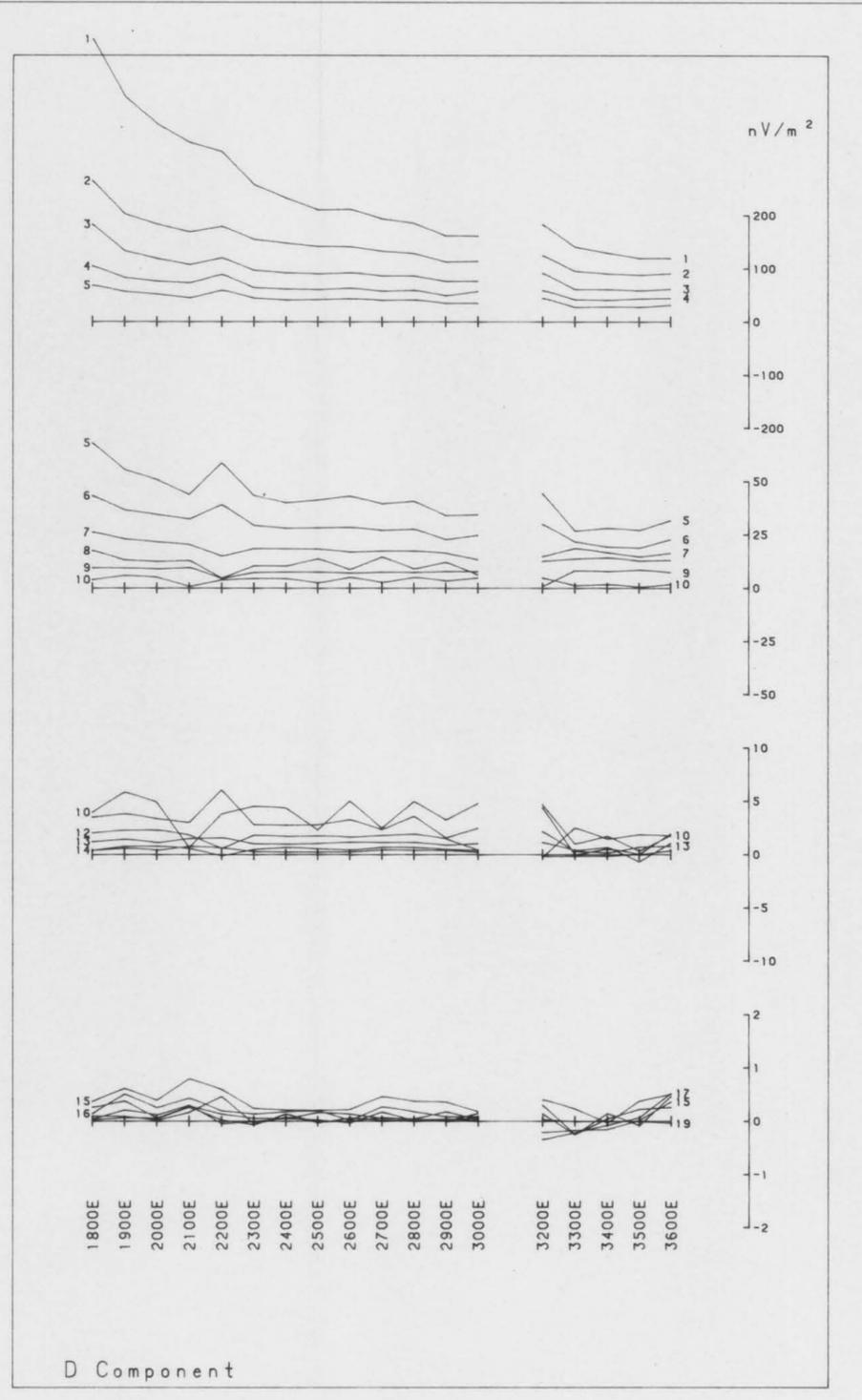
SURVEY SPECIFICATIONS

LOOP CO-ORDS : 2150E 4N 2450E 4N
 : 2300E 3S 2600E 3S

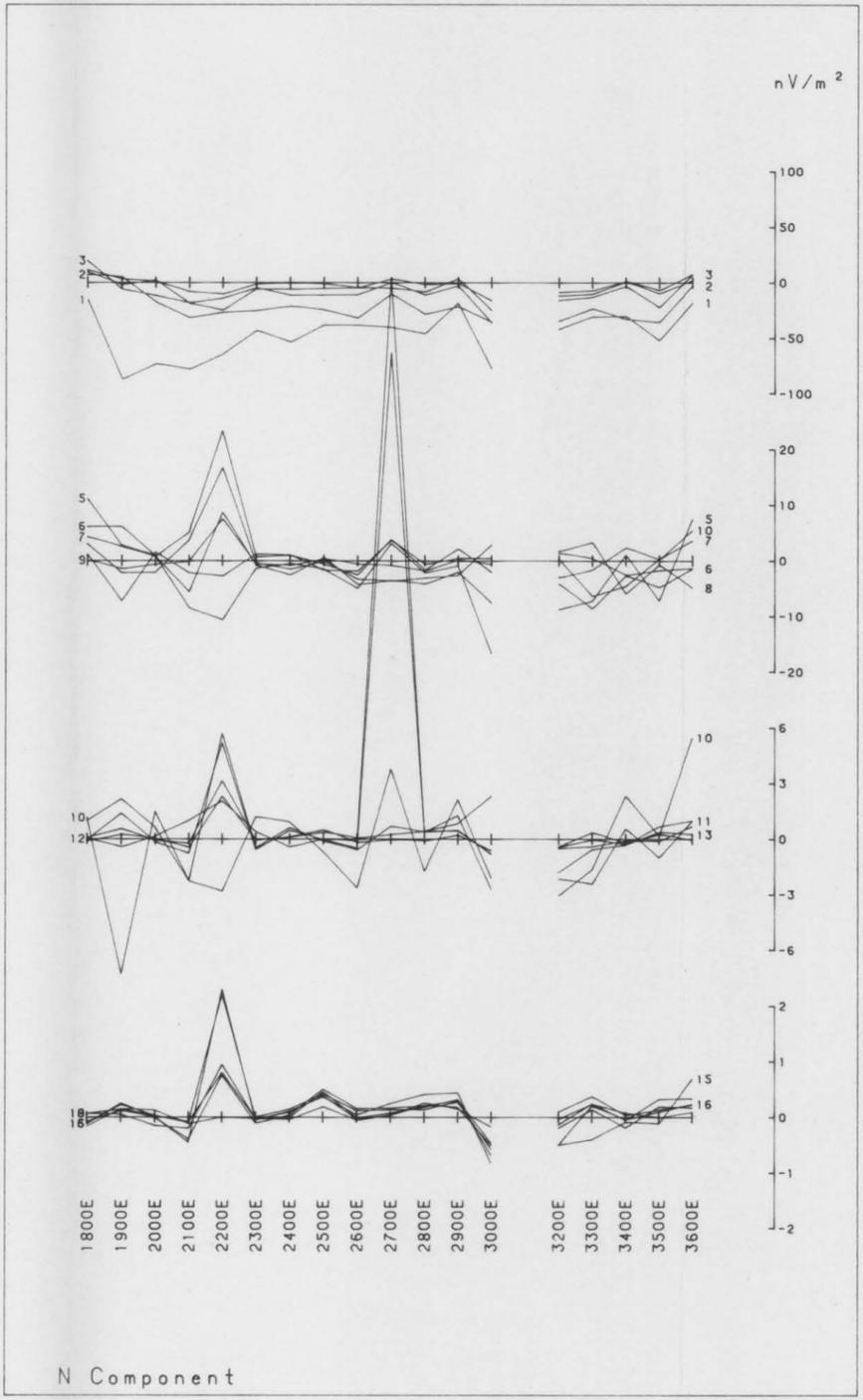
Tx TURN OFF TIME : 195 usec
 FIRST GATE TIME : 0.08 msec
 CURRENT : 12.0 amps
 FREQUENCY : 25 Hz
 INTEGRATION TIME : 256
 SYNC. MODE : XTAL
 SURVEYED BY : P.P
 DATE : MAY -JULY 1985
 JOB NUMBER : 333
 PROCESSING : TESLA 10 PTY LTD

AMOCO MINERALS

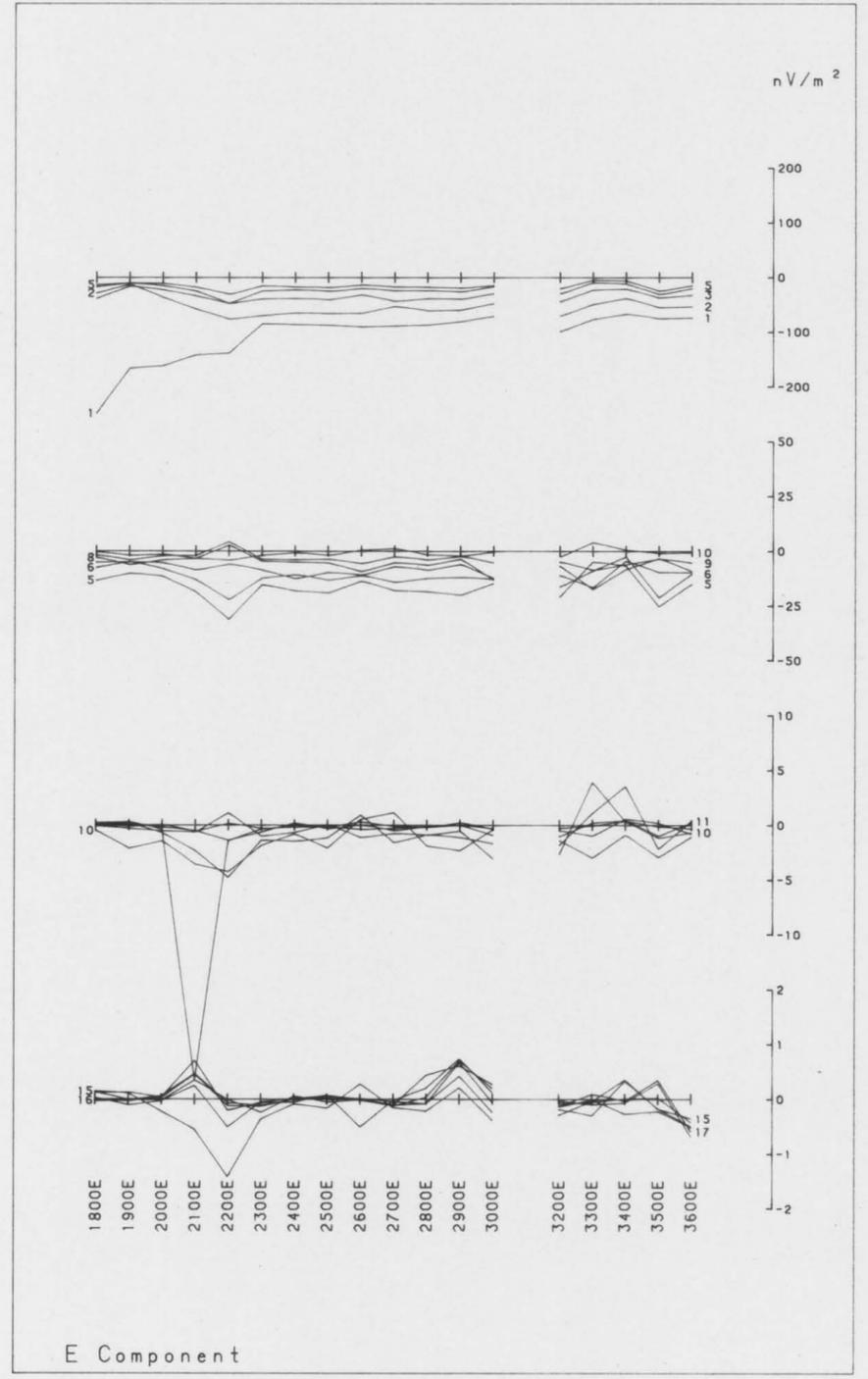
PROJECT : HENTY RIVER
 AREA : YOLANDE
 LINE : 2N
 COMP. : E, N & D
 Tx LOOP : Tx 3



D Component



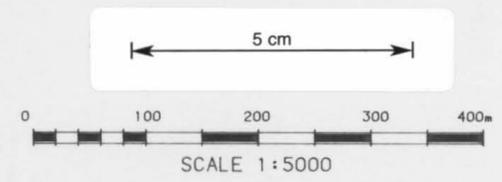
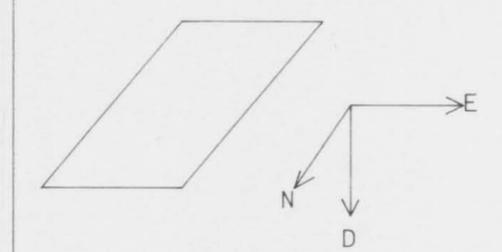
N Component



E Component

EM 37 TRANSIENT ELECTROMAGNETIC SURVEY

FIXED LOOP CONFIGURATION



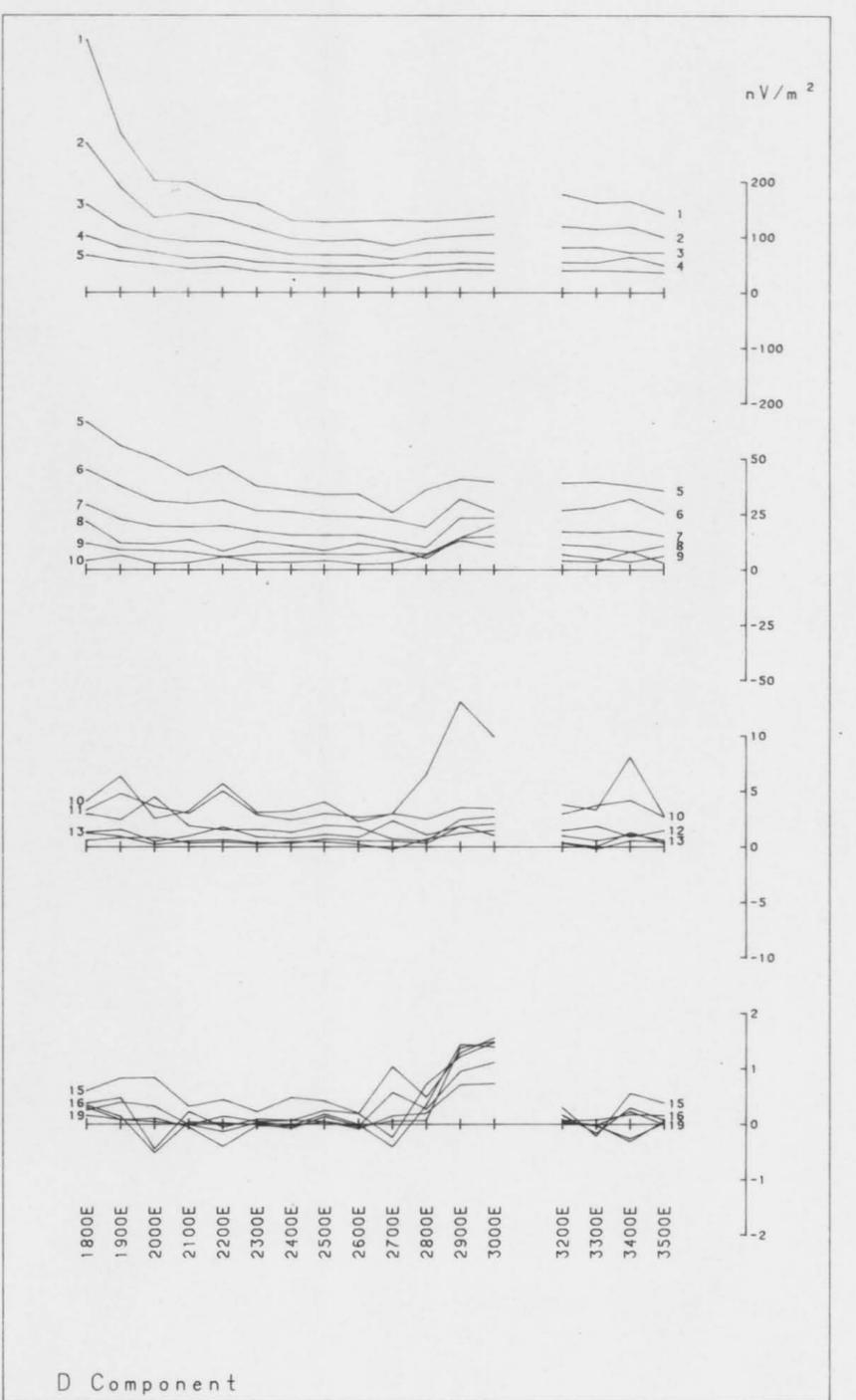
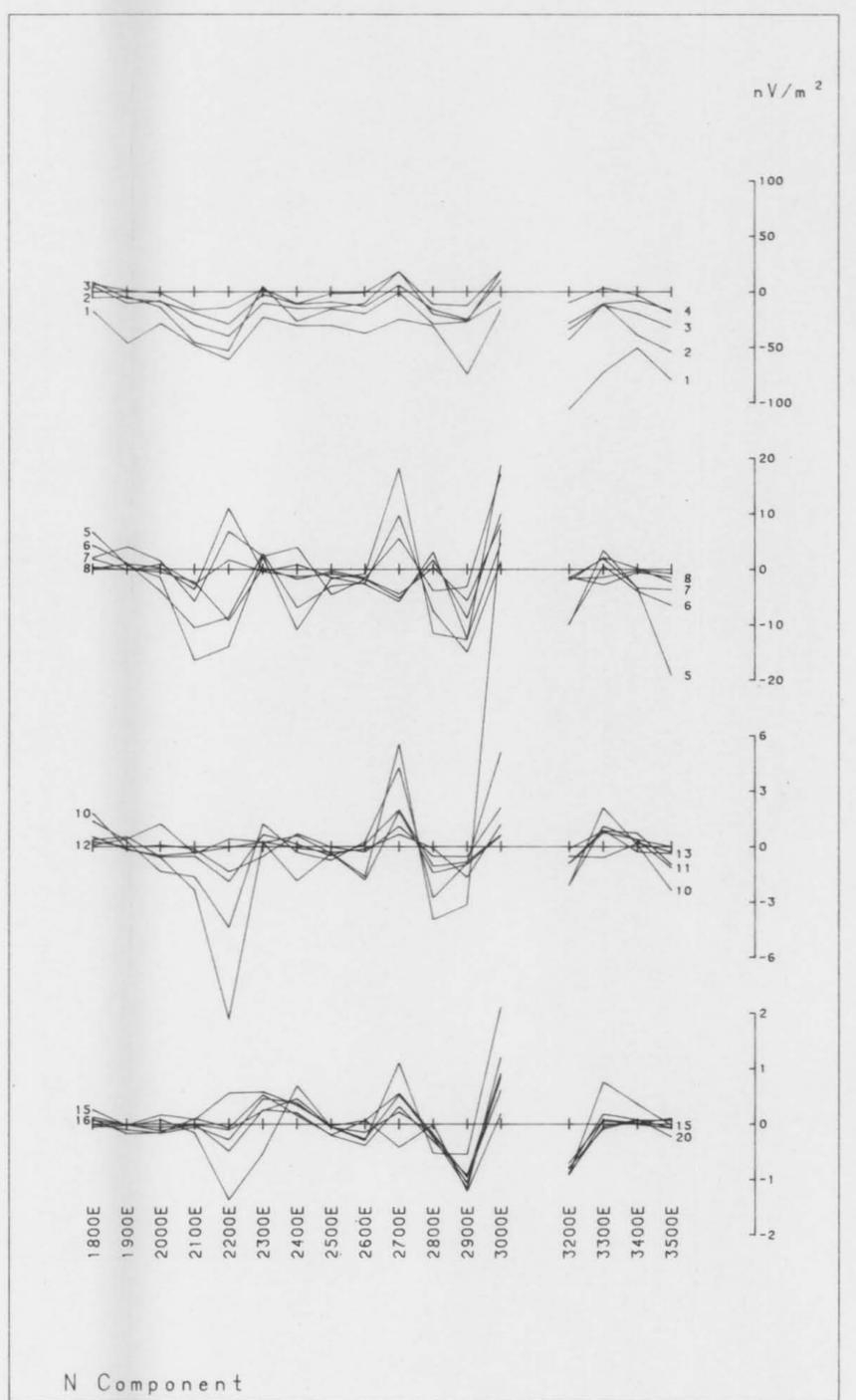
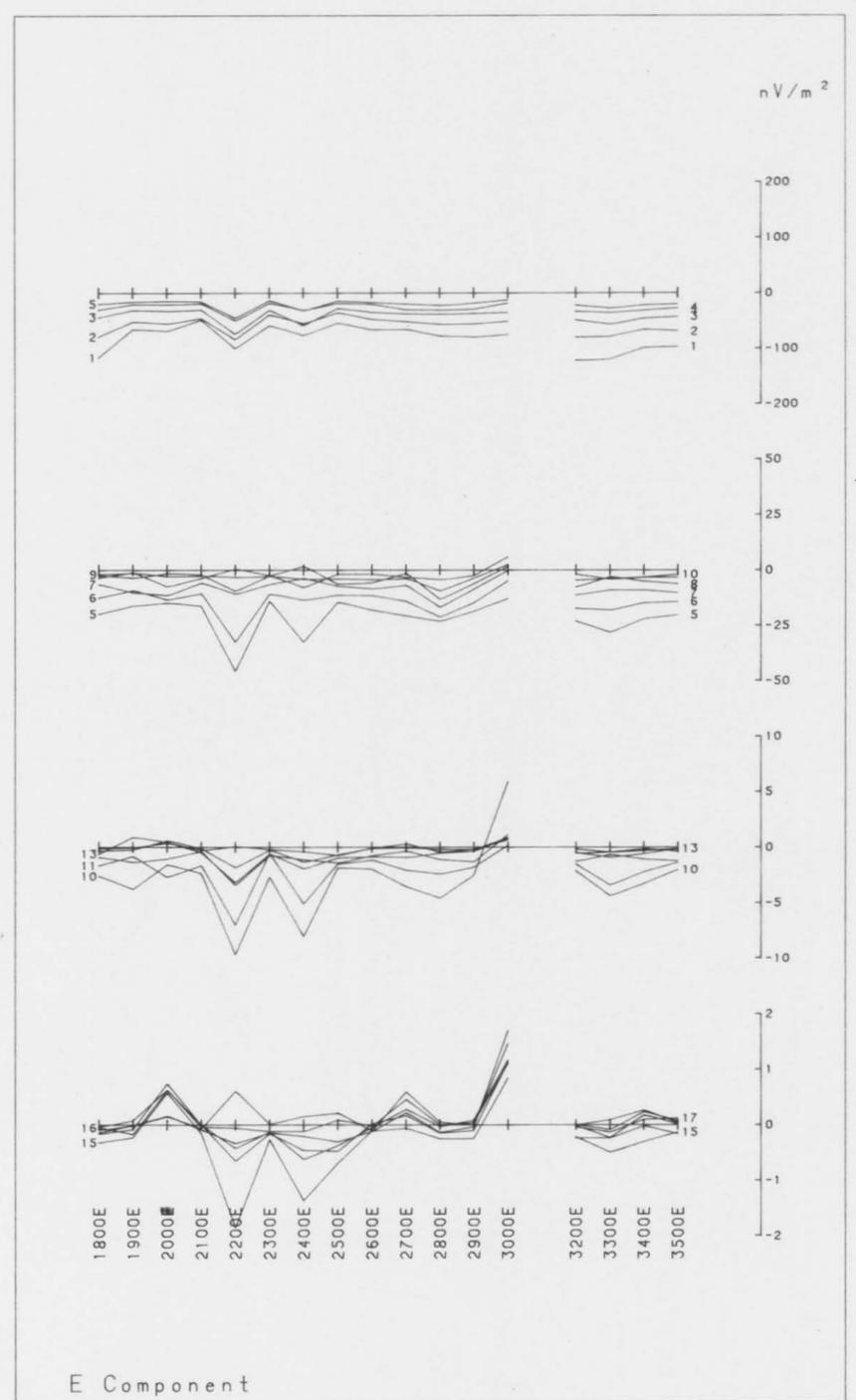
SURVEY SPECIFICATIONS

LOOP CO-ORDS : 2150E 4N 2450E 4N
 : 2300E 3S 2600E 3S

Tx TURN OFF TIME : 195 usec
FIRST GATE TIME : 0.08 msec
CURRENT : 12.0 amps
FREQUENCY : 25 Hz
INTEGRATION TIME : 256
SYNC. MODE : XTAL
SURVEYED BY : P.P
DATE : MAY -JULY 1985
JOB NUMBER : 333
PROCESSING : TESLA 10 PTY LTD

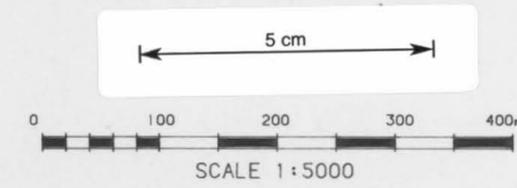
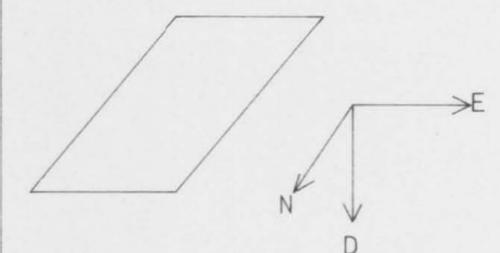
AMOCO MINERALS

PROJECT : HENTY RIVER
AREA : YOLANDE
LINE : 3N
COMP. : E , N & D
Tx LOOP : Tx 3



EM 37
TRANSIENT
ELECTROMAGNETIC SURVEY

FIXED LOOP CONFIGURATION



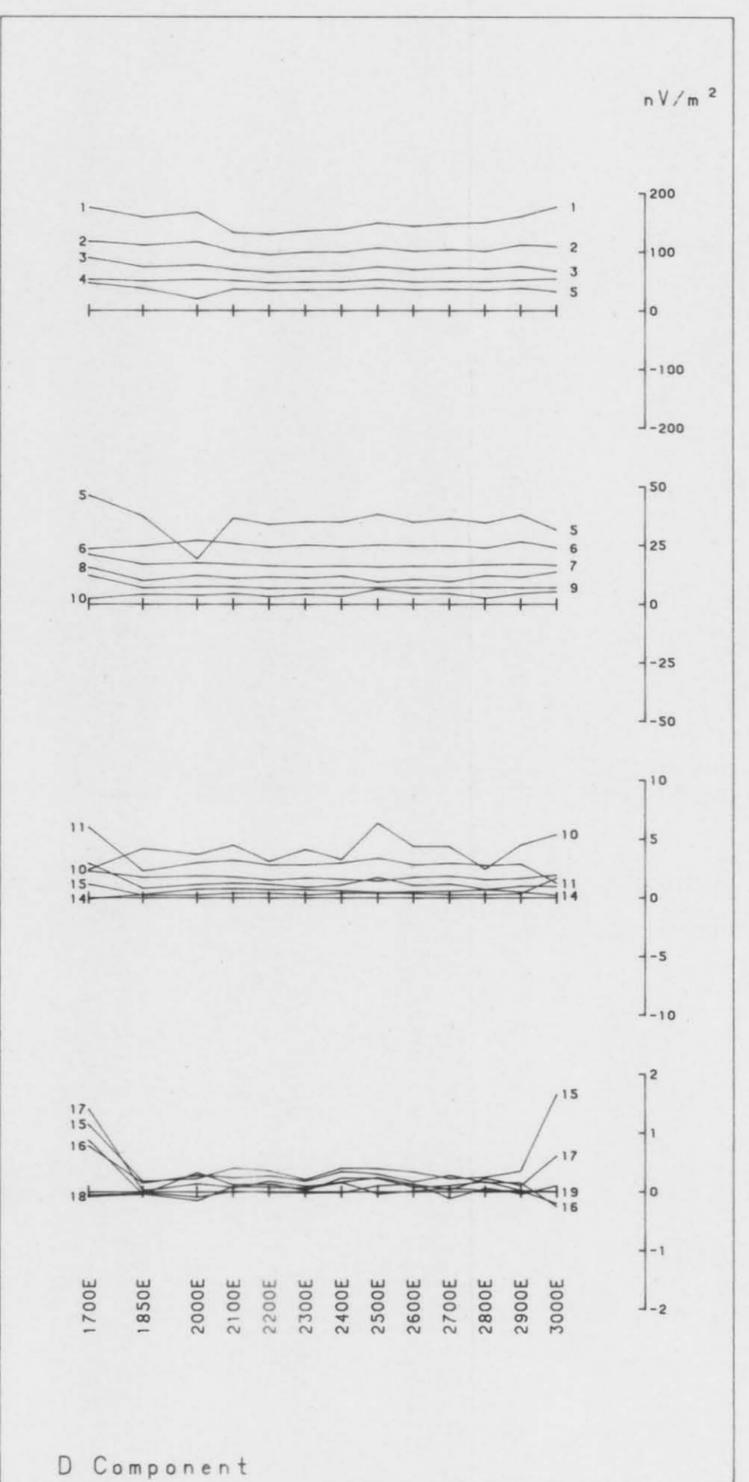
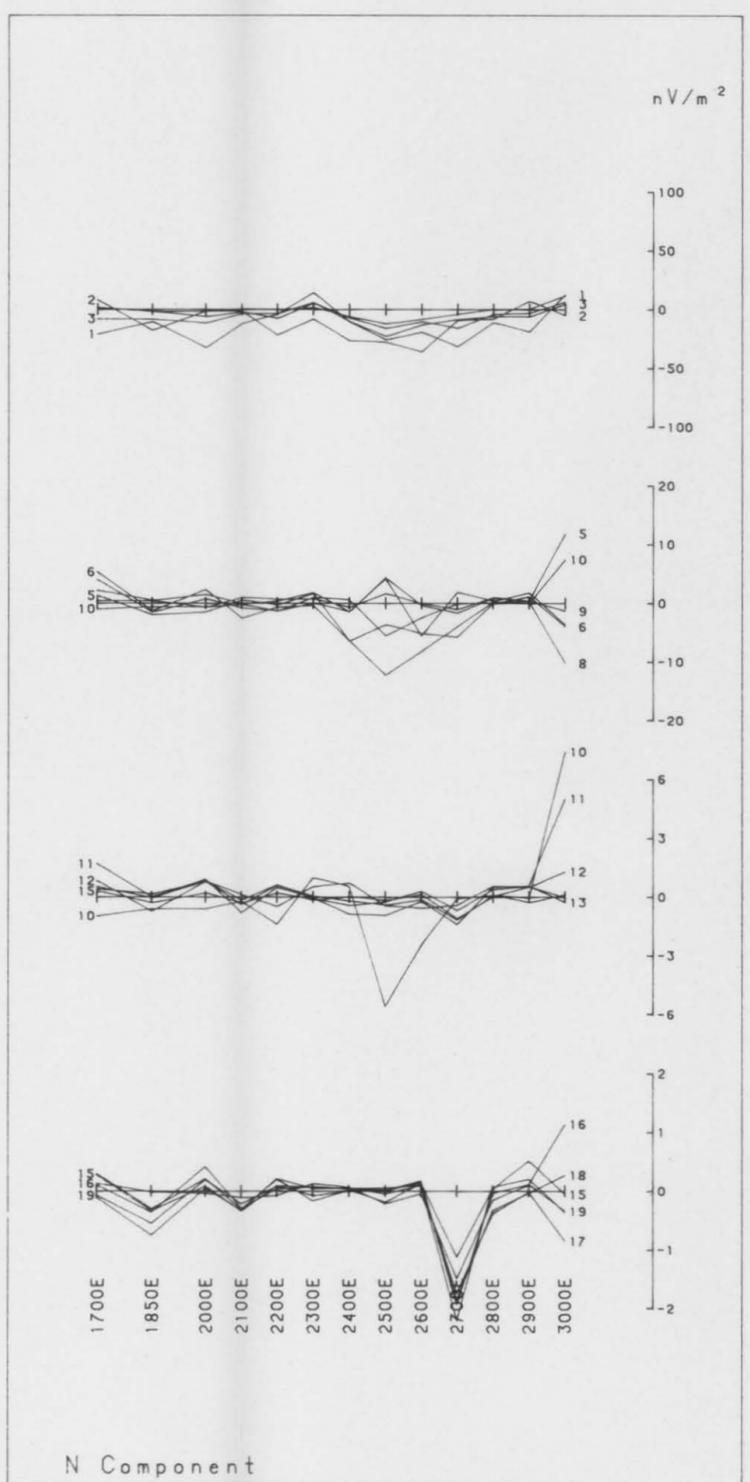
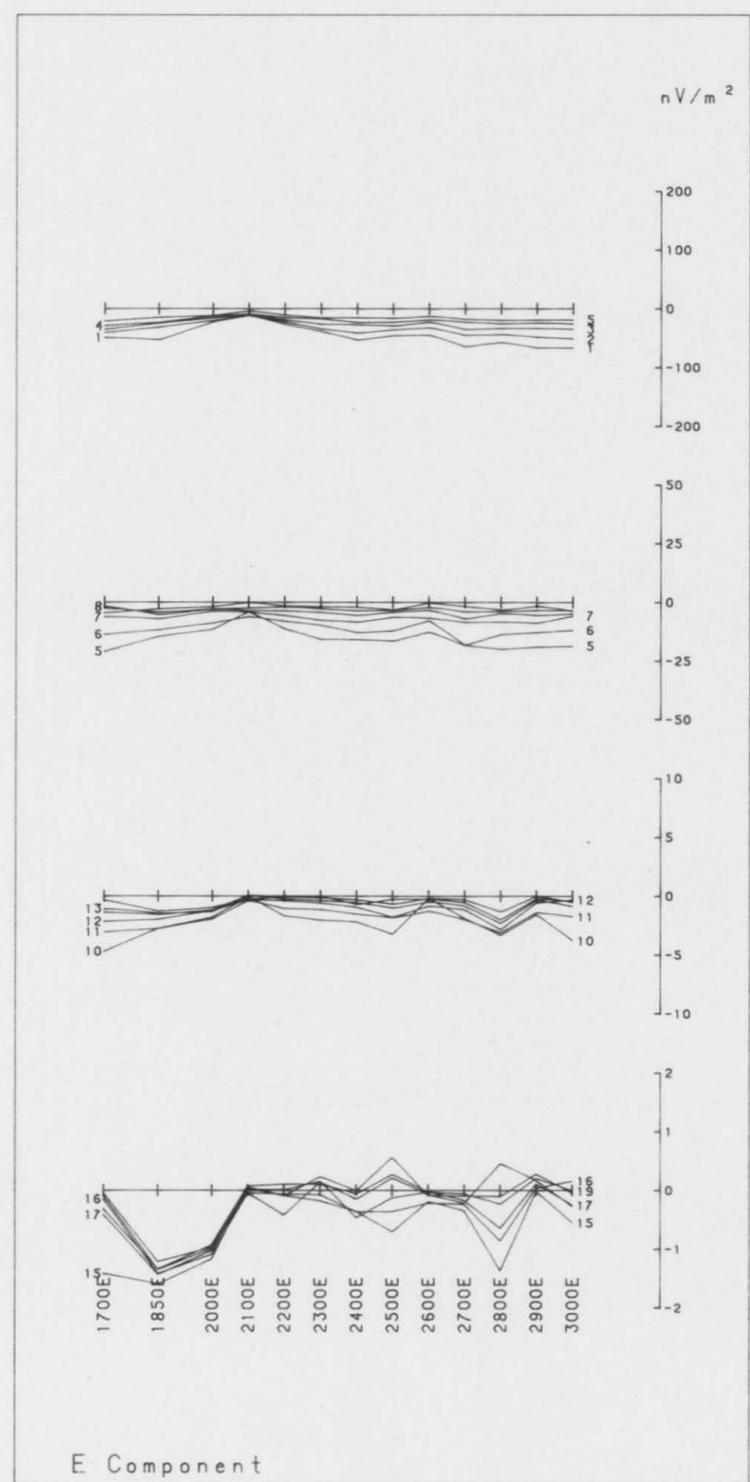
SURVEY SPECIFICATIONS

LOOP CO-ORDS : 2050E 8N 2350E 8N
: 2050E 4N 2350E 4N

Tx TURN OFF TIME : 220 usec
FIRST GATE TIME : 0.08 msec
CURRENT : 14.0 amps
FREQUENCY : 25 Hz
INTEGRATION TIME : 256
SYNC. MODE : XTAL
SURVEYED BY : P.P
DATE : MAY -JULY 1985
JOB NUMBER : 333
PROCESSING : TESLA 10 PTY LTD

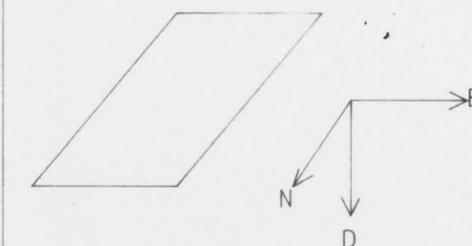
AMOCO MINERALS

PROJECT : HENTY RIVER
AREA : YOLANDE
LINE : 4N
COMP. : E , N & D
Tx LOOP : Tx 2



EM 37
TRANSIENT
ELECTROMAGNETIC SURVEY

FIXED LOOP CONFIGURATION



5 cm



SCALE 1:5000

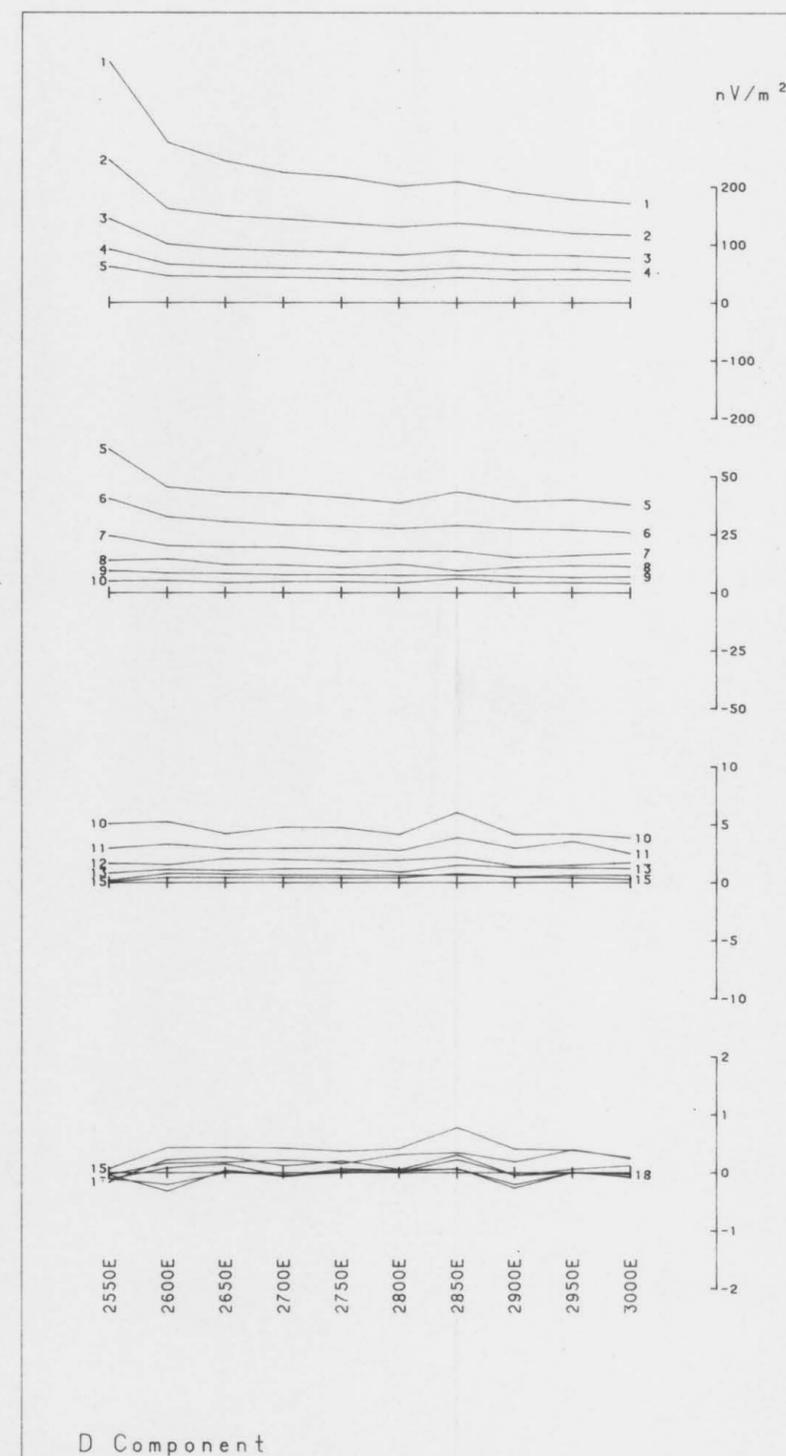
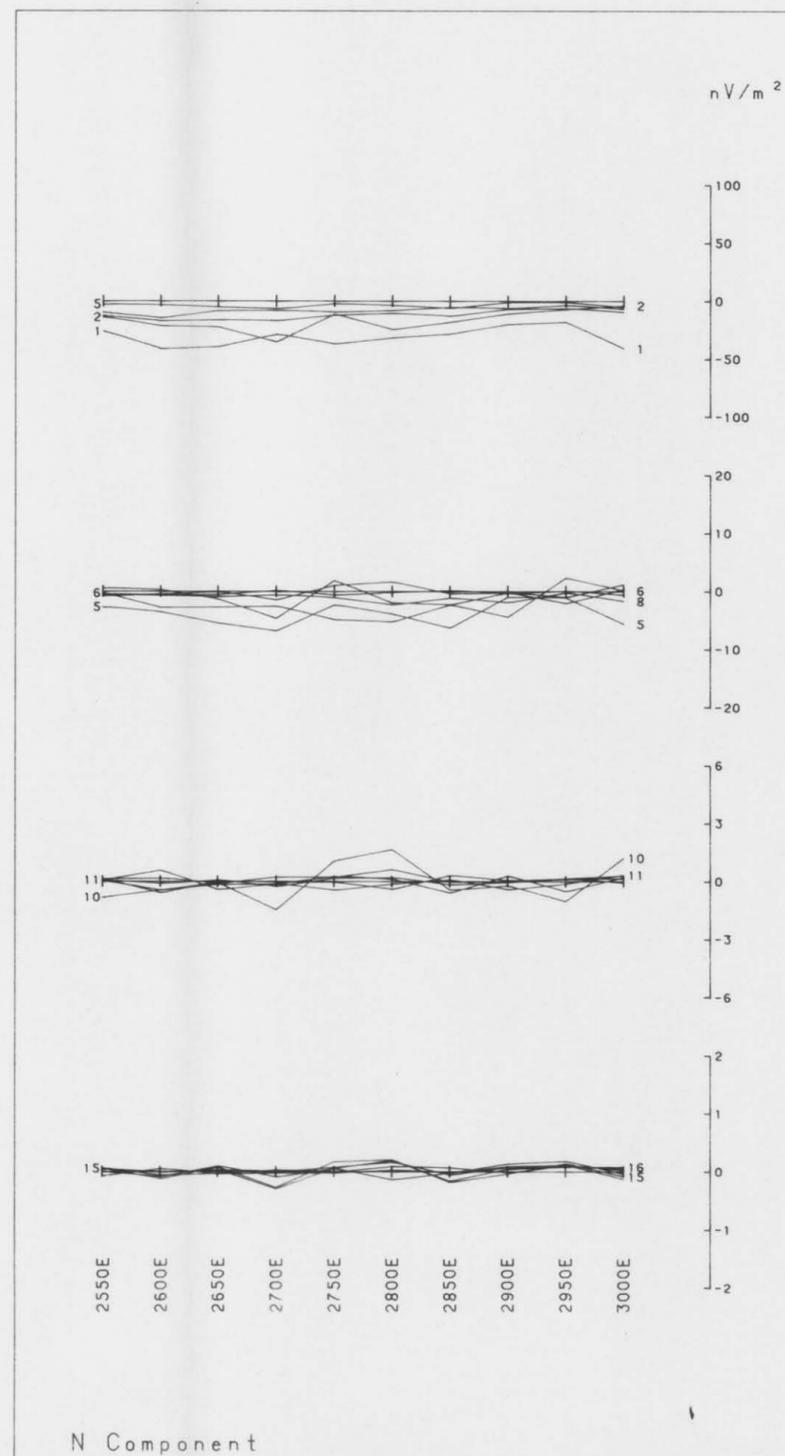
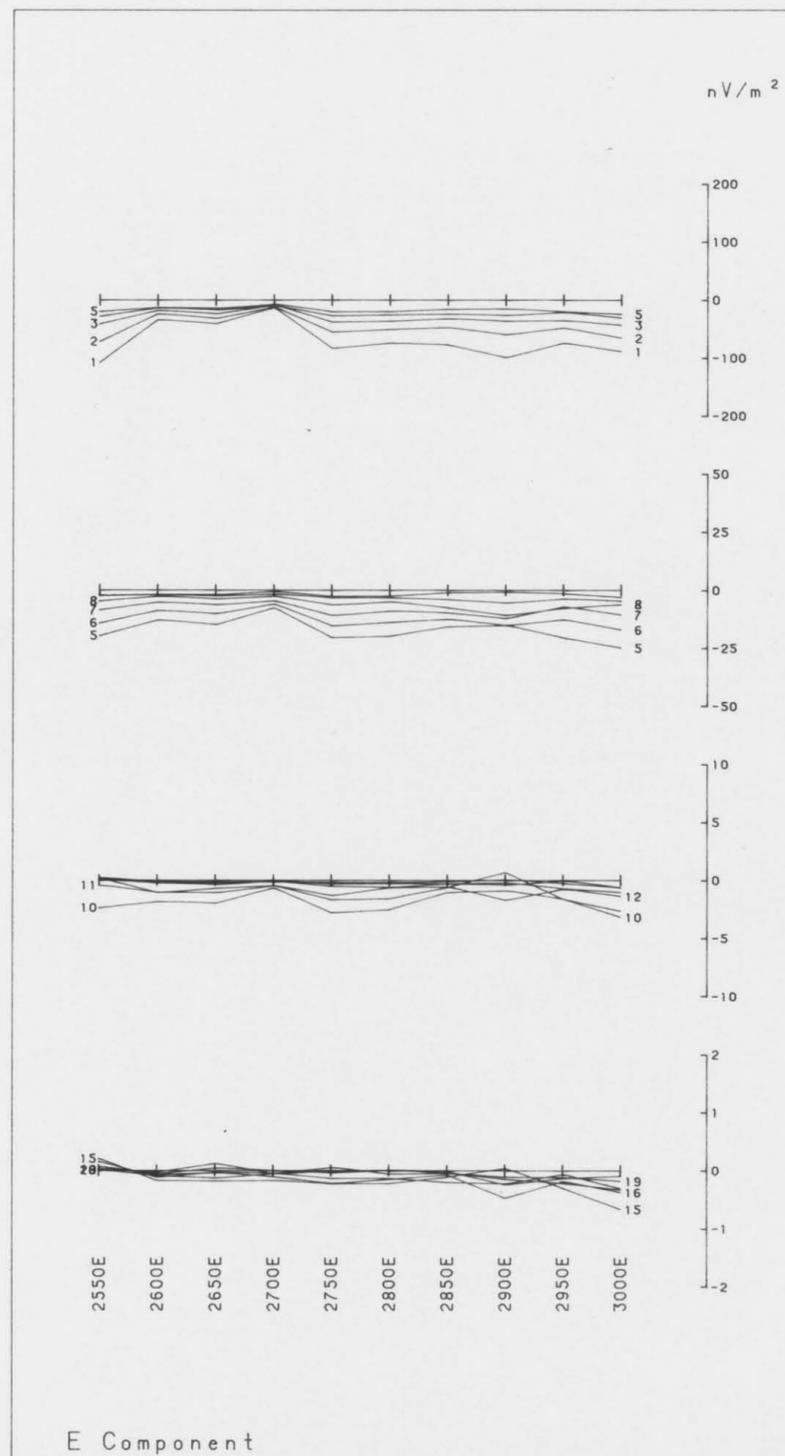
SURVEY SPECIFICATIONS

LOOP CO-ORDS : 2050E 8N 2350E 8N
: 2050E 4N 2350E 4N

Tx TURN OFF TIME : 220 usec
FIRST GATE TIME : 0.08 msec
CURRENT : 14.0 amps
FREQUENCY : 25 Hz
INTEGRATION TIME : 256
SYNC. MODE : XTAL
SURVEYED BY : P.P
DATE : MAY -JULY 1985
JOB NUMBER : 333
PROCESSING : TESLA 10 PTY LTD

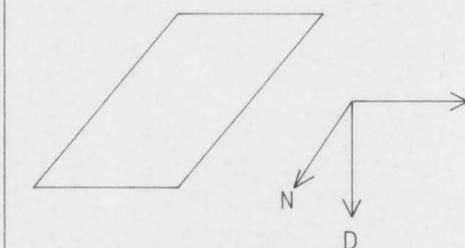
AMOCO MINERALS

PROJECT : HENTY RIVER
AREA : YOLANDE
LINE : 5N
COMP. : E, N & D
Tx LOOP : Tx 2

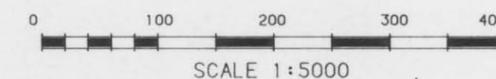


EM 37
TRANSIENT
ELECTROMAGNETIC SURVEY

FIXED LOOP CONFIGURATION



5 cm



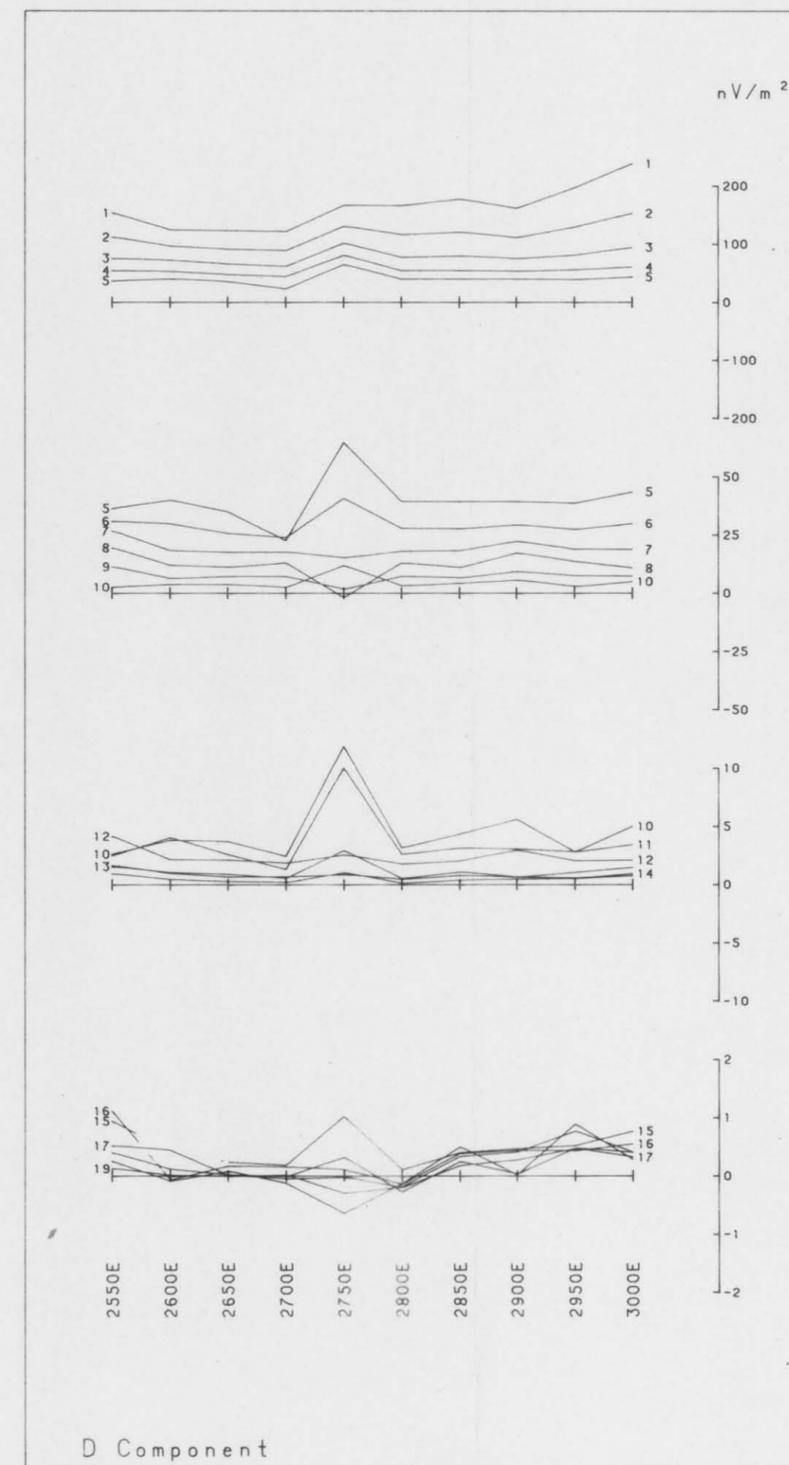
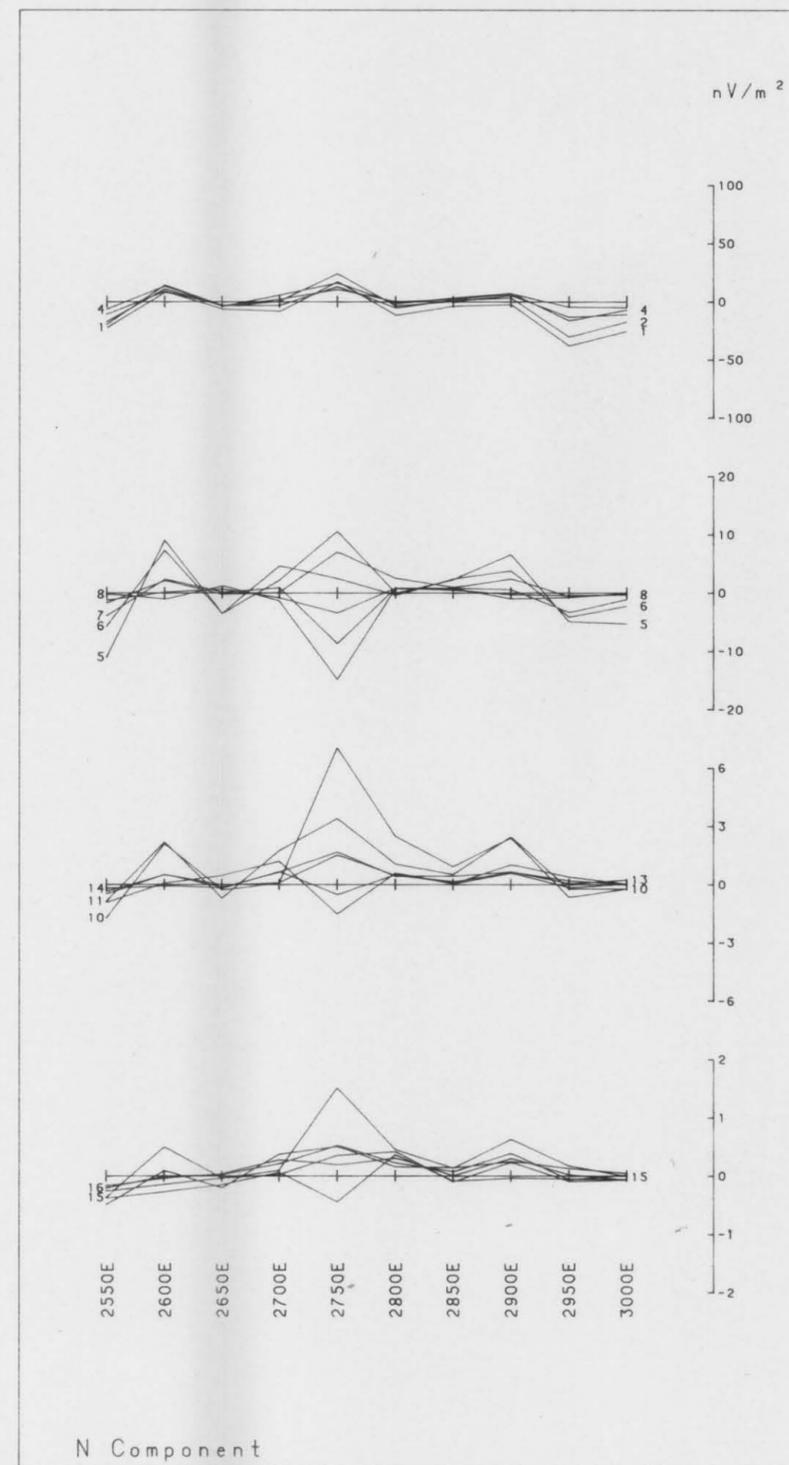
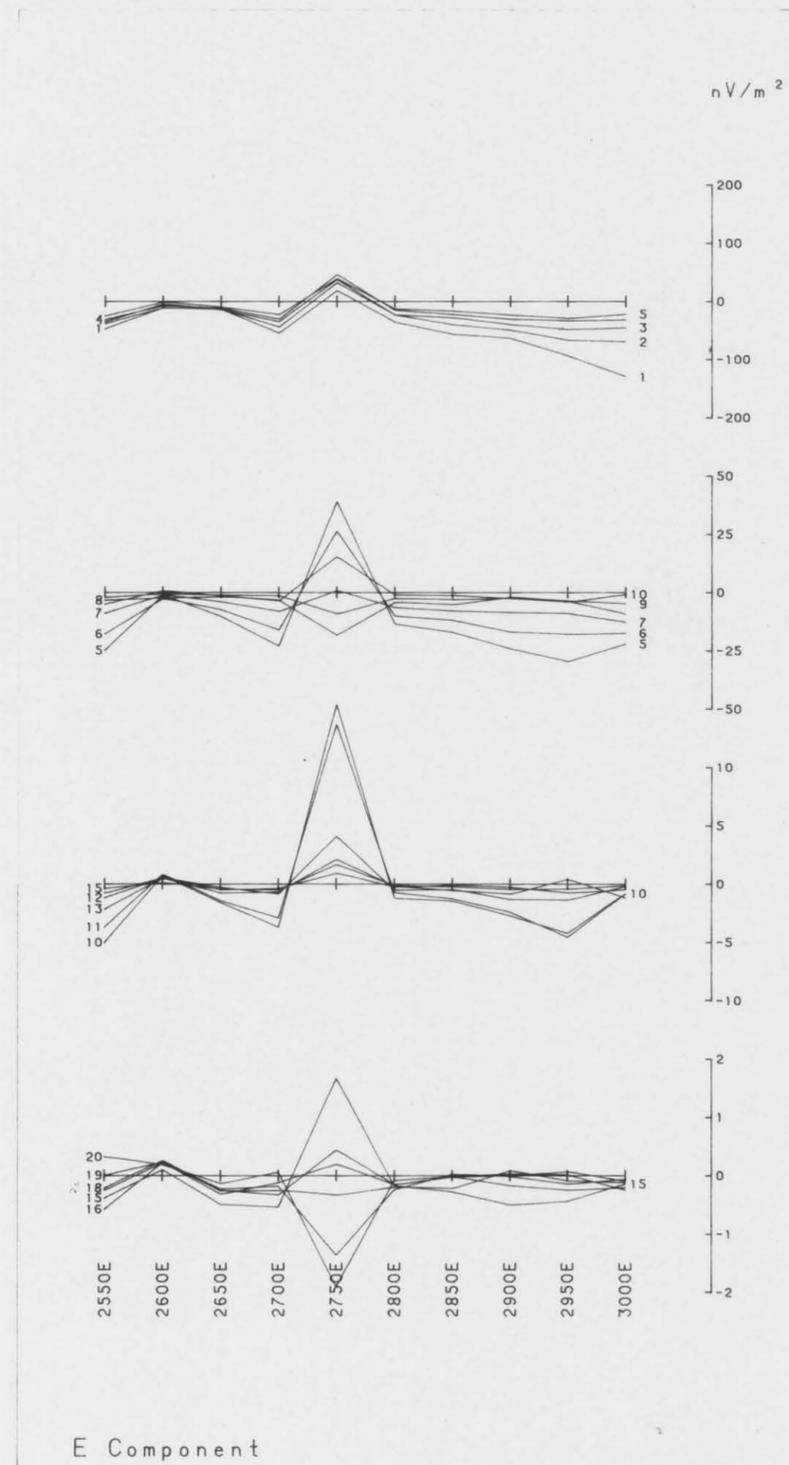
SURVEY SPECIFICATIONS

LOOP CO-ORDS : 2050E 8N 2350E 8N
: 2050E 4N 2350E 4N

Tx TURN OFF TIME : 220 usec
FIRST GATE TIME : 0.08 msec
CURRENT : 14.0 amps
FREQUENCY : 25 Hz
INTEGRATION TIME : 256
SYNC. MODE : XTAL
SURVEYED BY : P.P
DATE : MAY -JULY 1985
JOB NUMBER : 333
PROCESSING : TESLA 10 PTY LTD

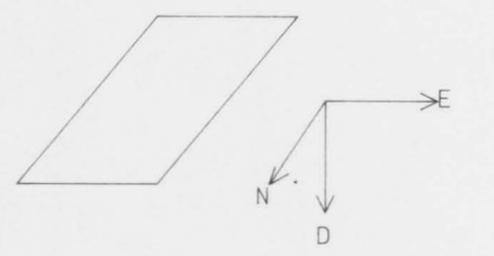
AMOCO MINERALS

PROJECT : HENTY RIVER
AREA : YOLANDE
LINE : 6N
COMP. : E , N & D
Tx LOOP : Tx 2

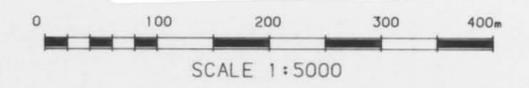


**EM 37
TRANSIENT
ELECTROMAGNETIC SURVEY**

FIXED LOOP CONFIGURATION



5 cm



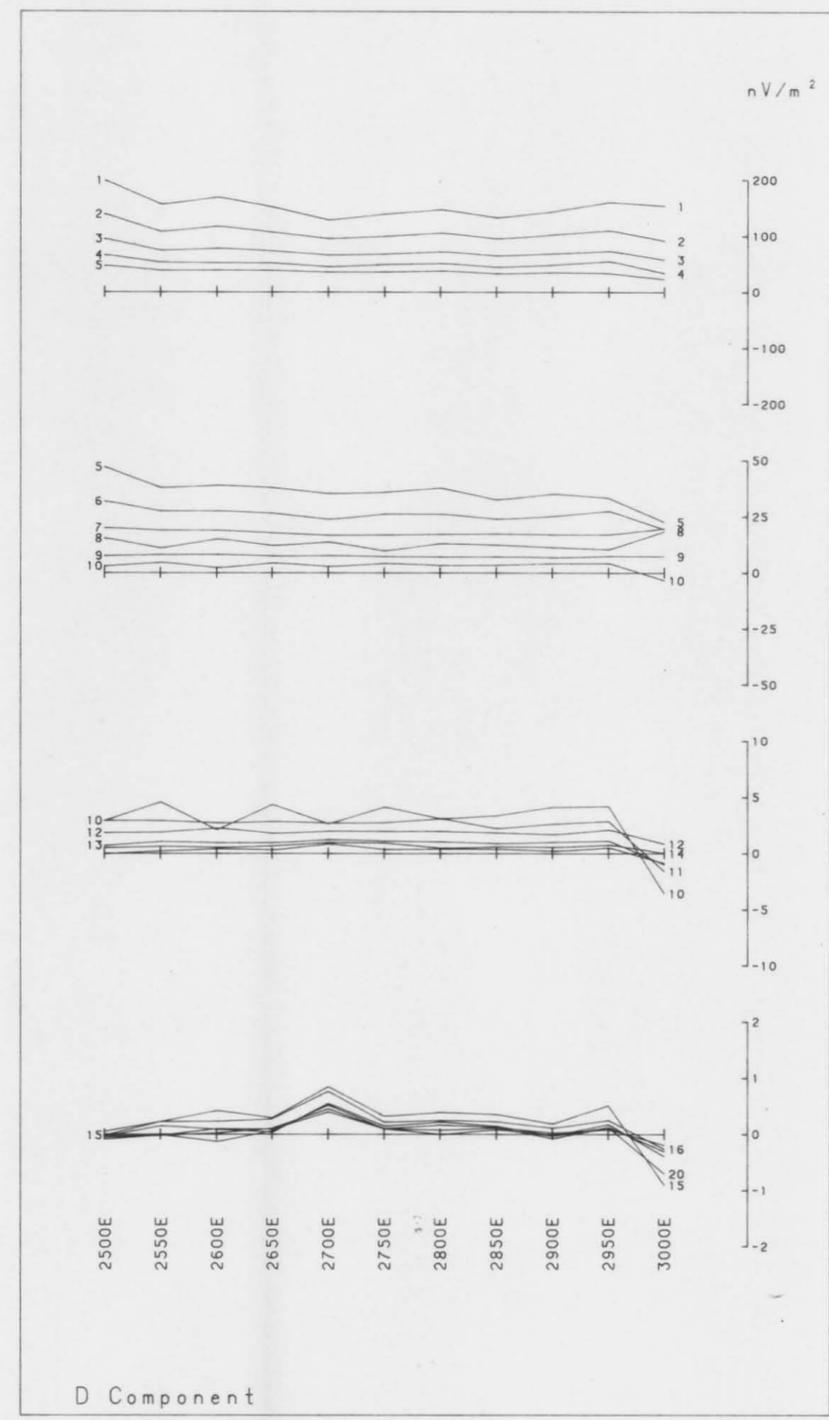
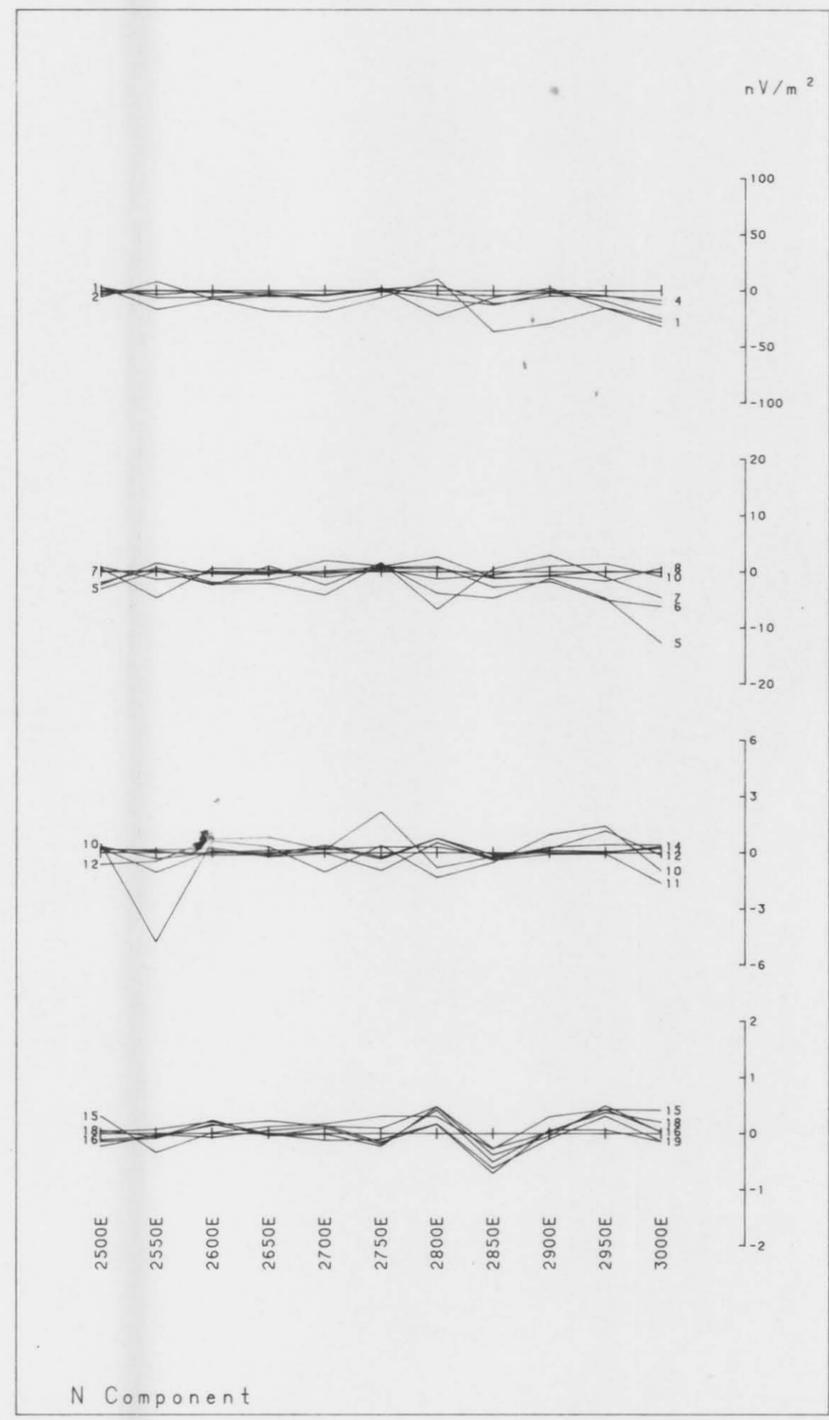
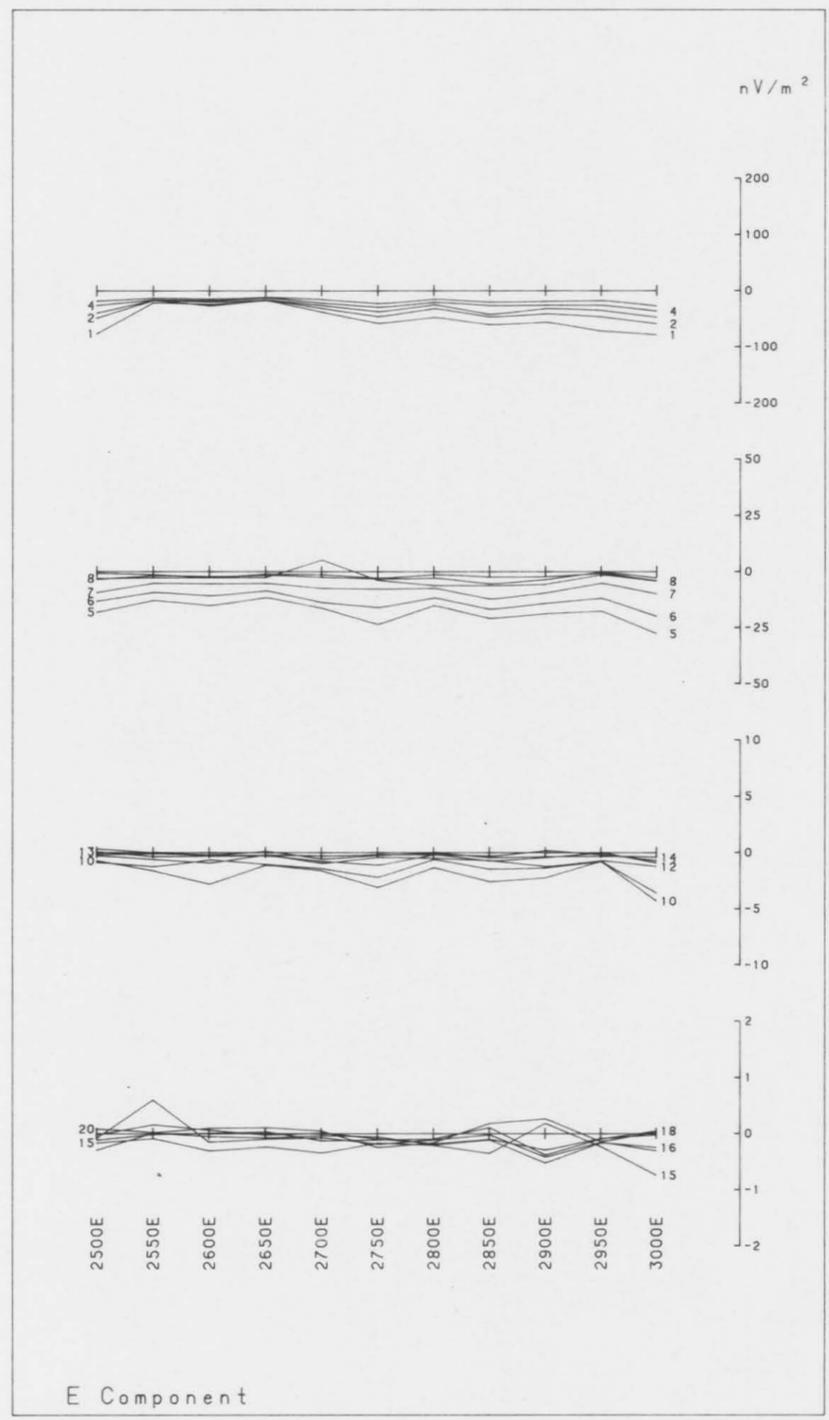
SURVEY SPECIFICATIONS

LOOP CO-ORDS : 2050E 8N 2350E 8N
: 2050E 4N 2350E 4N

Tx TURN OFF TIME : 220 usec
FIRST GATE TIME : 0.08 msec
CURRENT : 14.0 amps
FREQUENCY : 25 Hz
INTEGRATION TIME : 256
SYNC. MODE : XTAL
SURVEYED BY : P.P
DATE : MAY - JULY 1985
JOB NUMBER : 333
PROCESSING : TESLA 10 PTY LTD

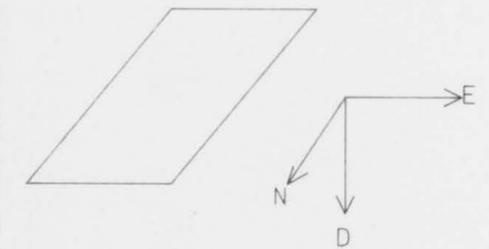
AMOCO MINERALS

PROJECT : HENTY RIVER
AREA : YOLANDE
LINE : 7N
COMP. : E, N & D
Tx LOOP : Tx 2



EM 37
TRANSIENT
ELECTROMAGNETIC SURVEY

FIXED LOOP CONFIGURATION



5 cm



SCALE 1:5000

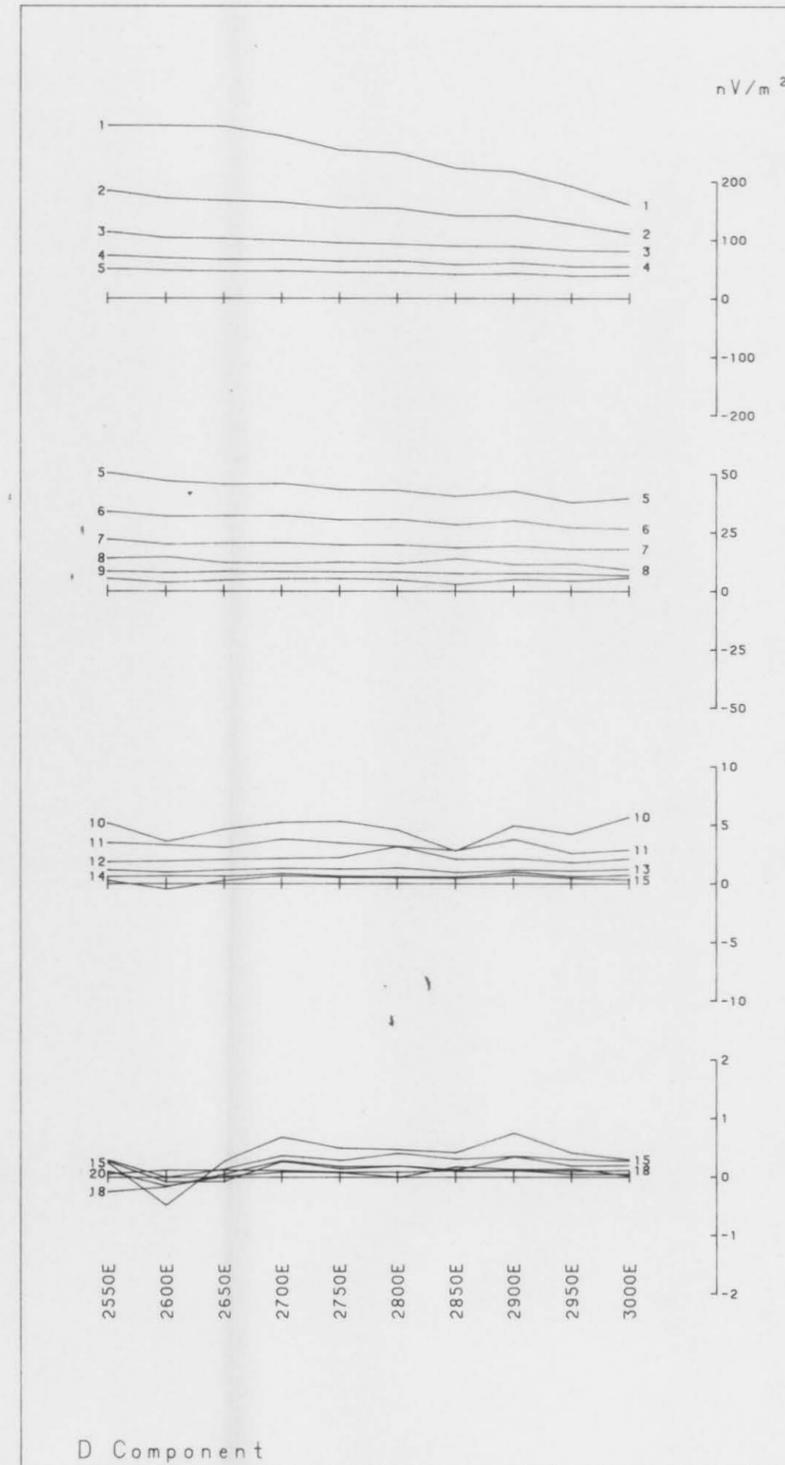
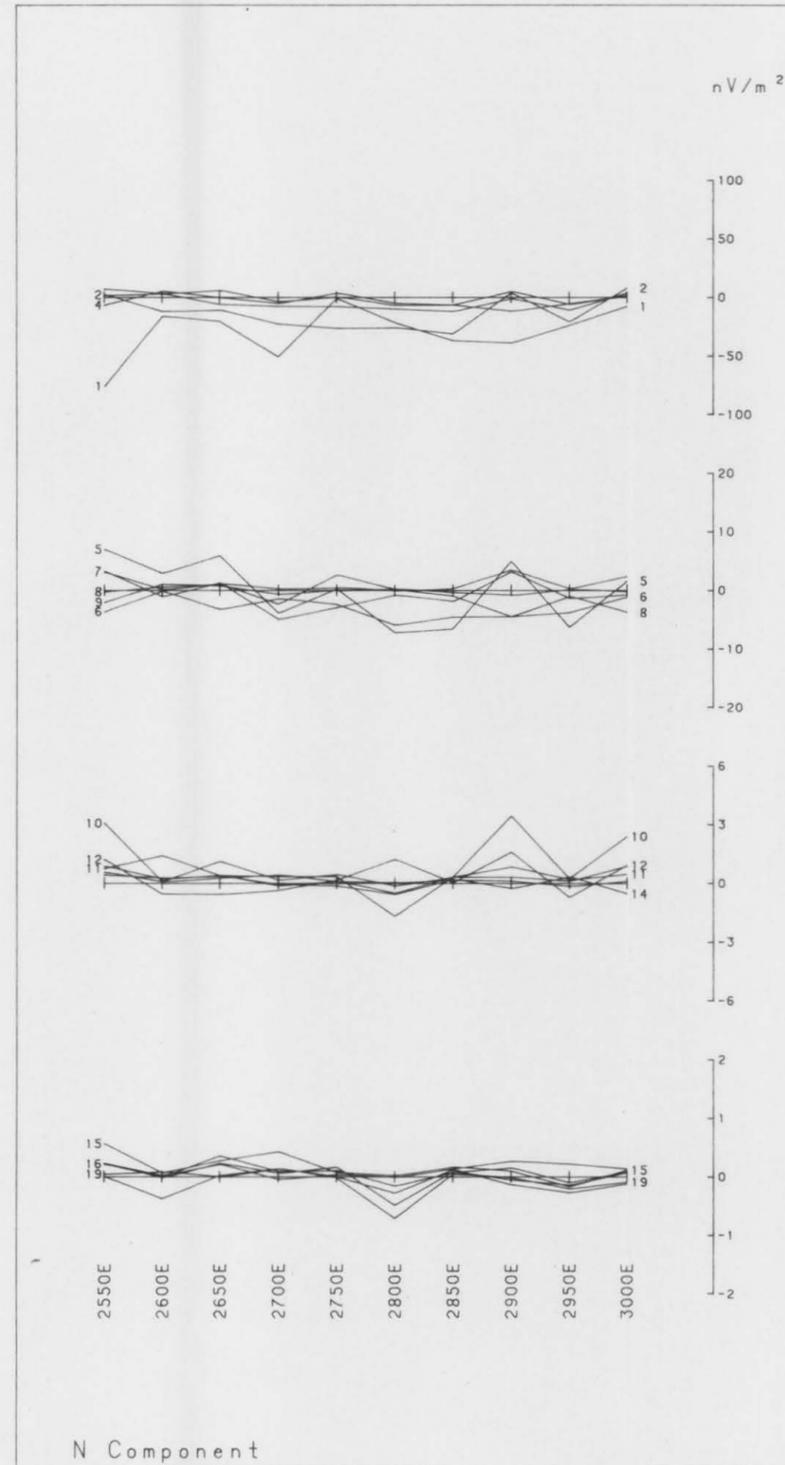
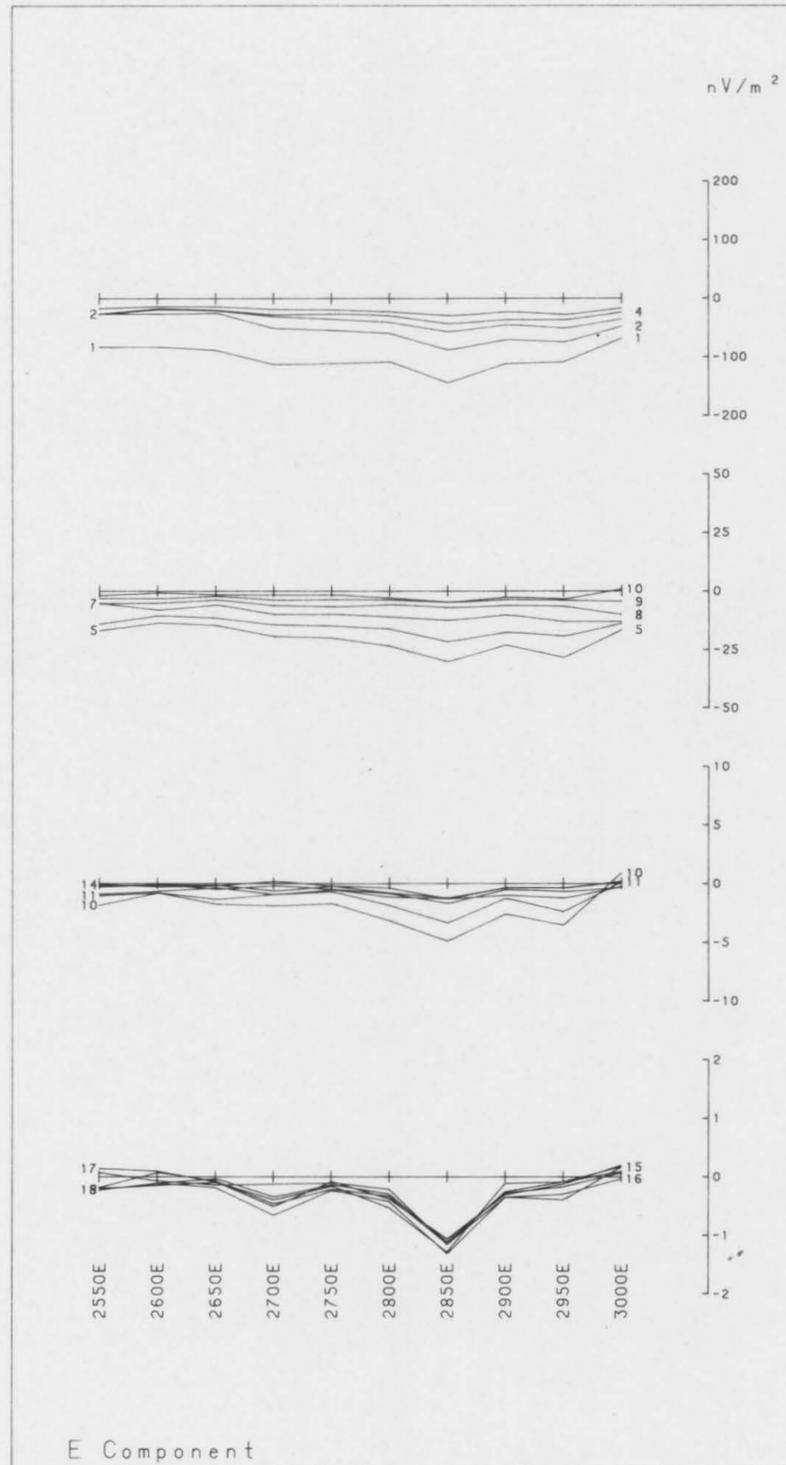
SURVEY SPECIFICATIONS

LOOP CO-ORDS : 2050E 8N 2350E 8N
 : 2050E 4N 2350E 4N

Tx TURN OFF TIME : 220 usec
 FIRST GATE TIME : 0.08 msec
 CURRENT : 14.0 amps
 FREQUENCY : 25 Hz
 INTEGRATION TIME : 256
 SYNC. MODE : XTAL
 SURVEYED BY : P.P
 DATE : MAY -JULY 1985
 JOB NUMBER : 333
 PROCESSING : TESLA 10 PTY LTD

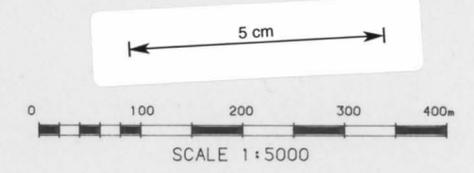
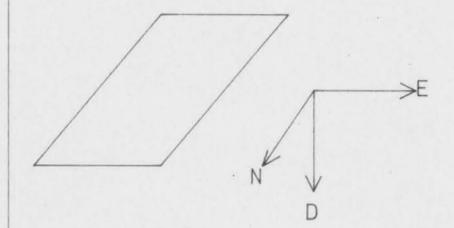
AMOCO MINERALS

PROJECT : HENTY RIVER
AREA : YOLANDE
LINE : 7.5N
COMP. : E , N & D
Tx LOOP : Tx 2



EM 37
TRANSIENT
ELECTROMAGNETIC SURVEY

FIXED LOOP CONFIGURATION



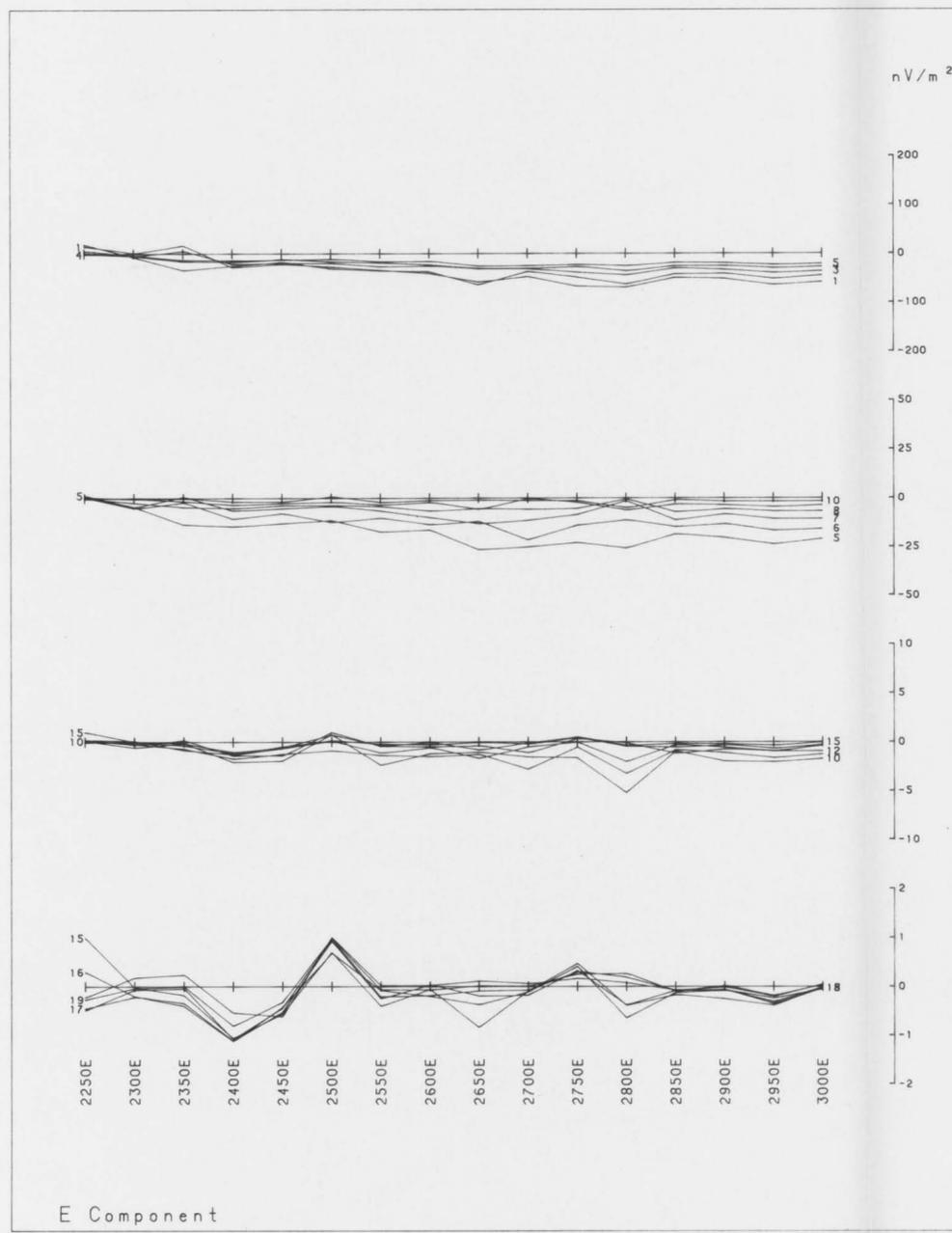
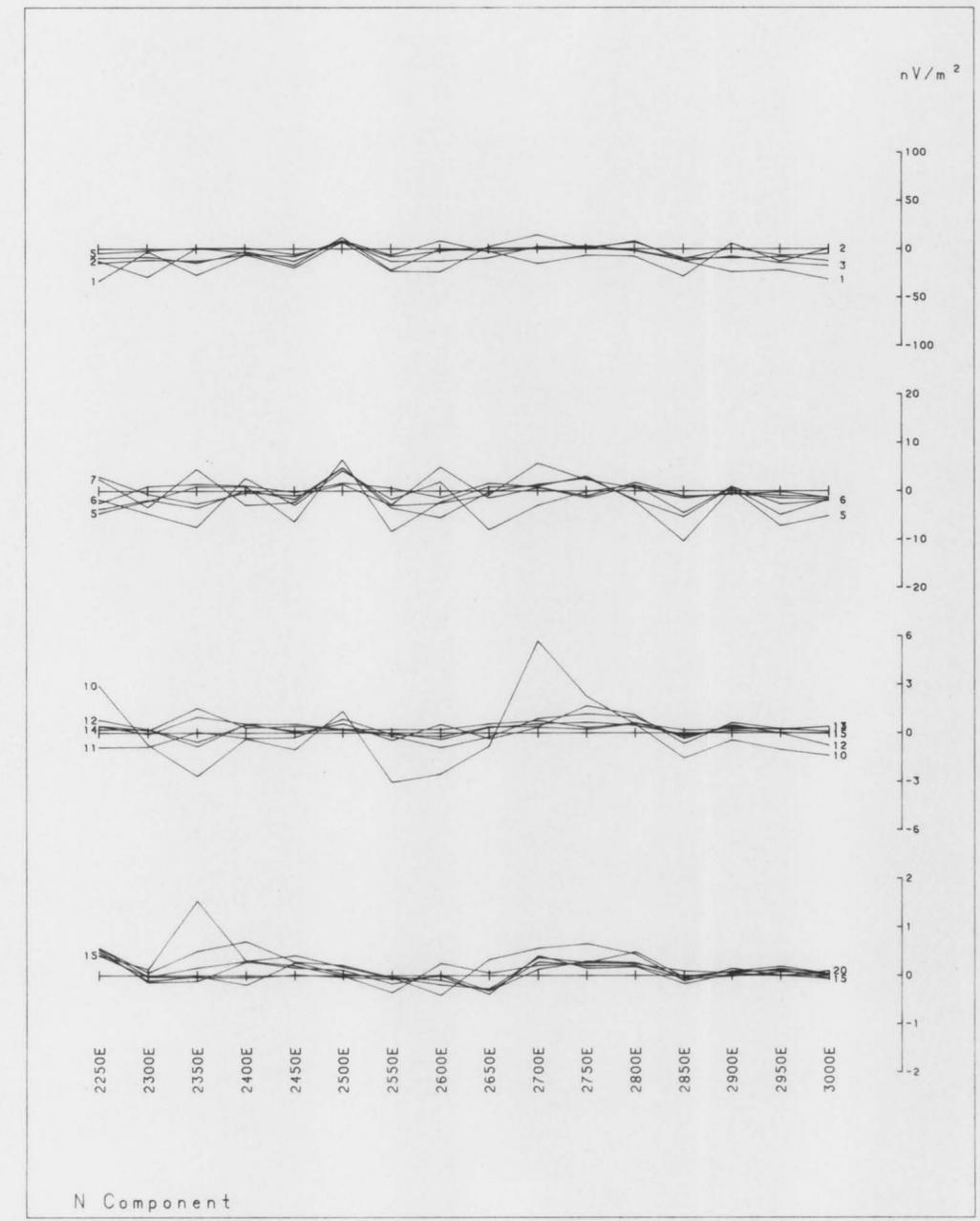
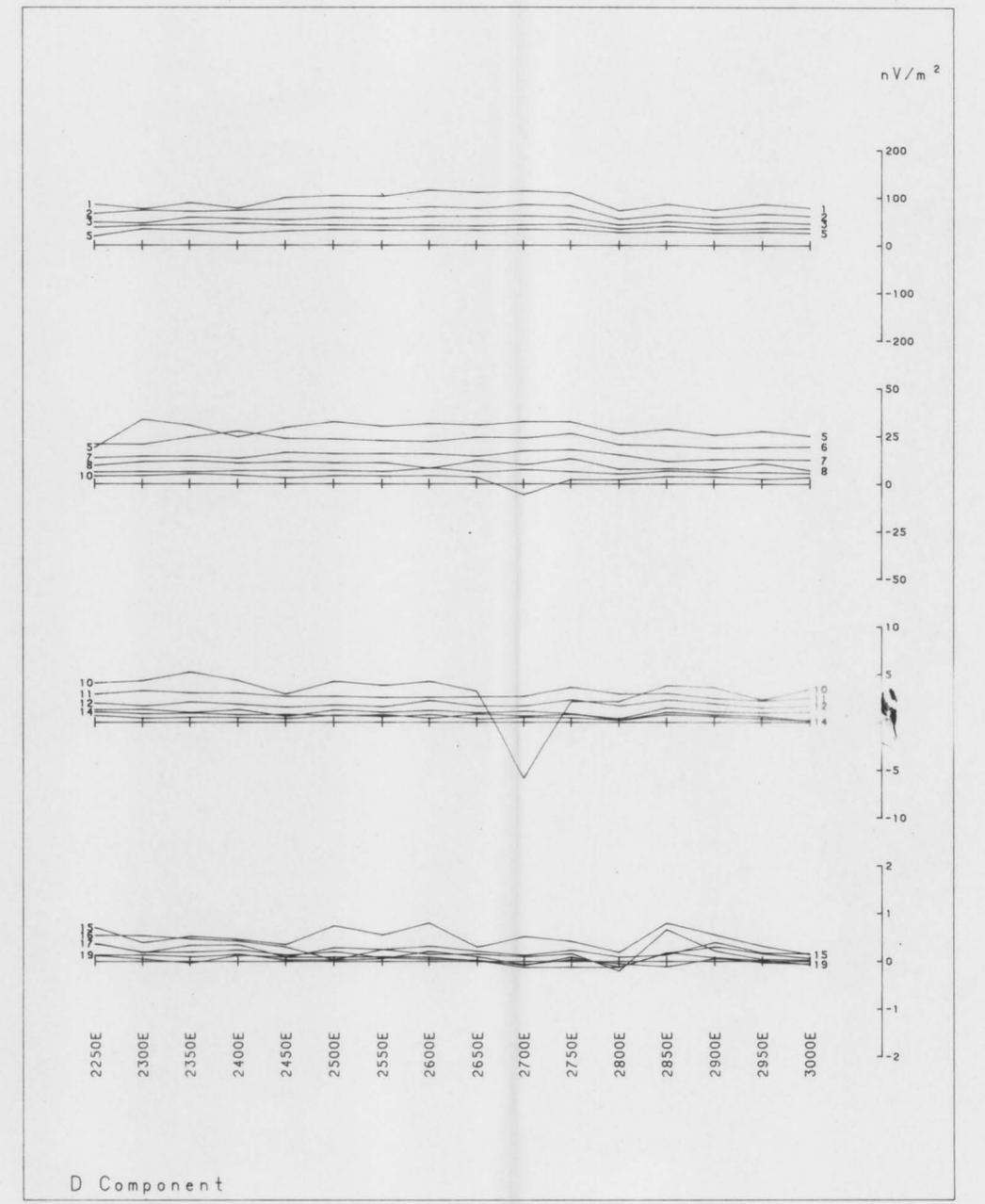
SURVEY SPECIFICATIONS

LOOP CO-ORDS : 1850E 13N 2150E 13N
: 1900E 8N 2200E 8N

Tx TURN OFF TIME : 230 usec
FIRST GATE TIME : 0.08 msec
CURRENT : 18.0 amps
FREQUENCY : 25 Hz
INTEGRATION TIME : 256
SYNC. MODE : XTAL
SURVEYED BY : P.P
DATE : MAY - JULY 1985
JOB NUMBER : 333
PROCESSING : TESLA 10 PTY LTD

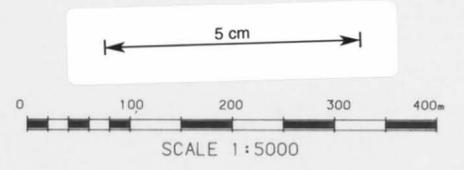
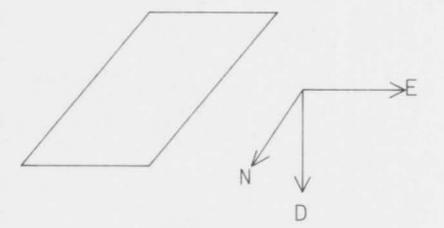
AMOCO MINERALS

PROJECT : HENTY RIVER
AREA : YOLANDE
LINE : 8N
COMP. : E, N & D
Tx LOOP : Tx 1



**EM 37
TRANSIENT
ELECTROMAGNETIC SURVEY**

FIXED LOOP CONFIGURATION



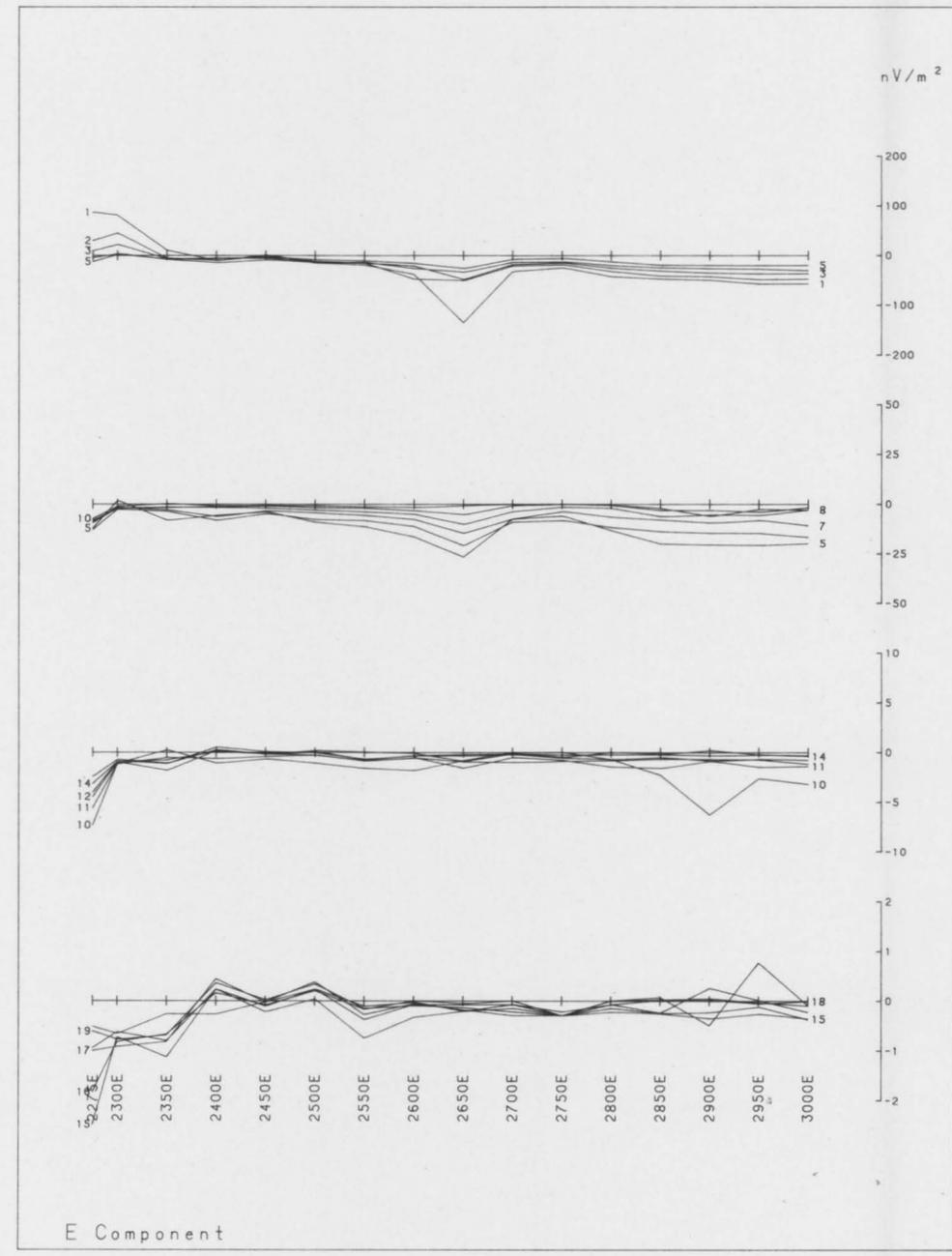
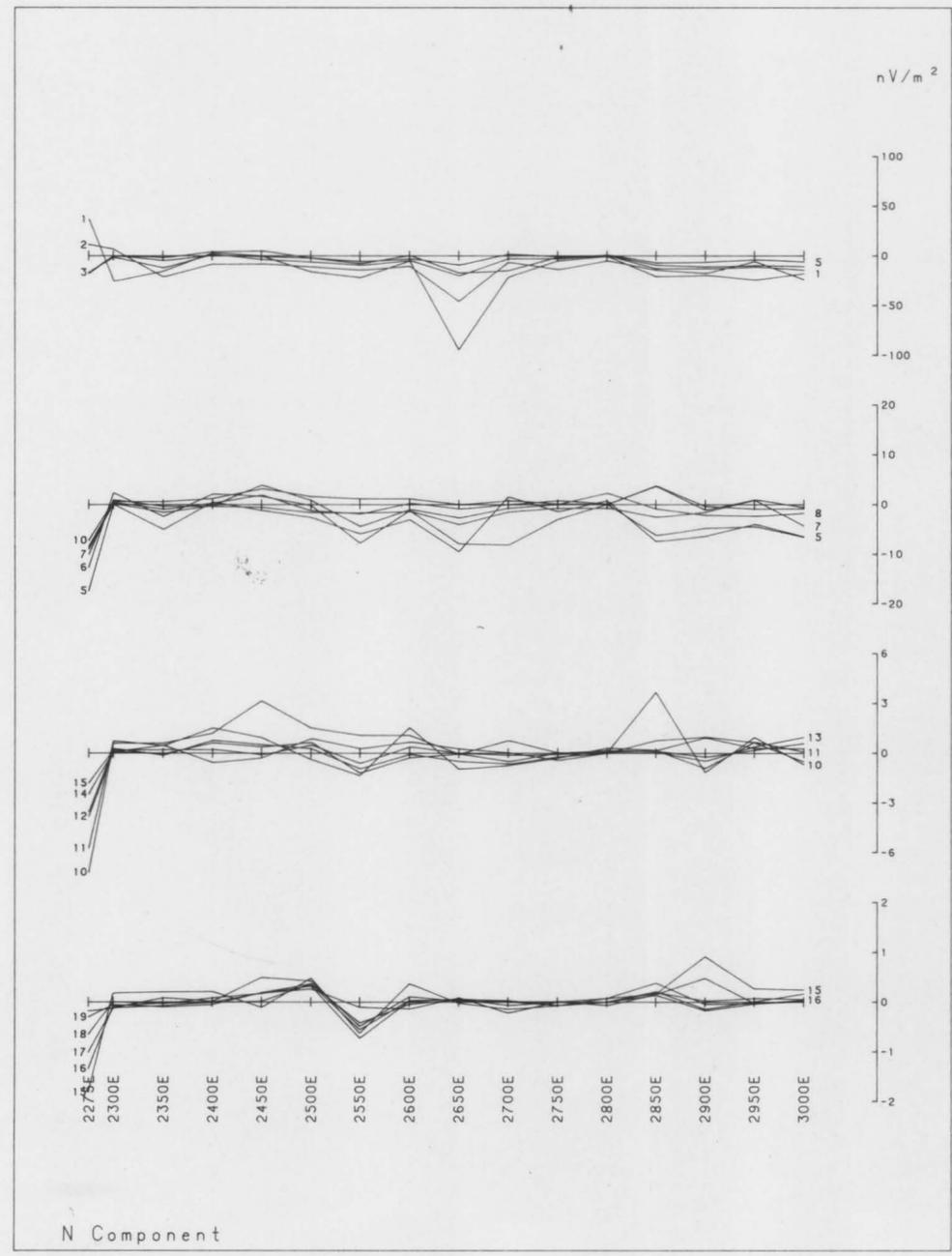
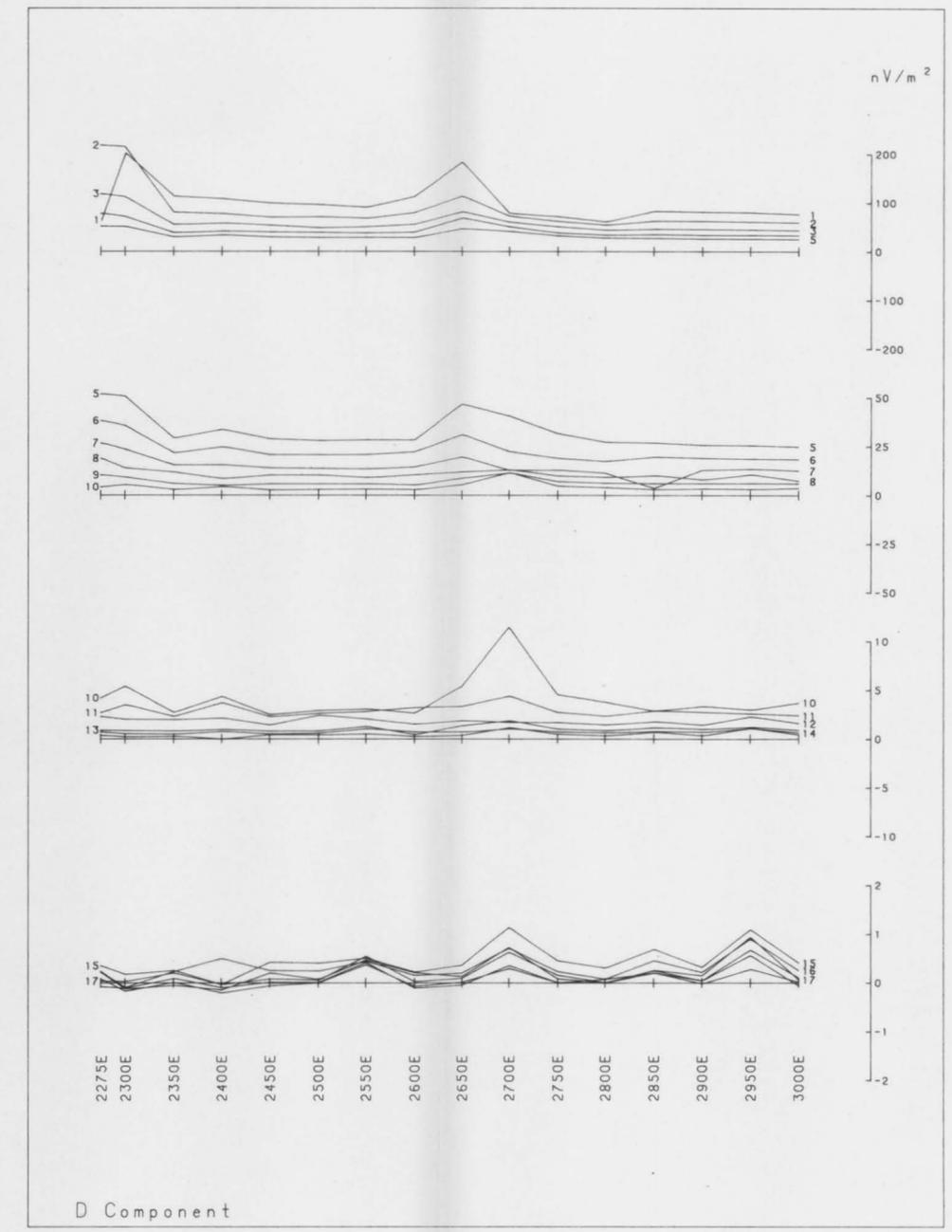
SURVEY SPECIFICATIONS

LOOP CO-ORDS : 1850E 13N 2150E 13N
: 1900E 8N 2200E 8N

Tx TURN OFF TIME : 230 usec
FIRST GATE TIME : 0.08 msec
CURRENT : 18.0 amps
FREQUENCY : 25 Hz
INTEGRATION TIME : 256
SYNC. MODE : XTAL
SURVEYED BY : P.P
DATE : MAY - JULY 1985
JOB NUMBER : 333
PROCESSING : TESLA 10 PTY LTD

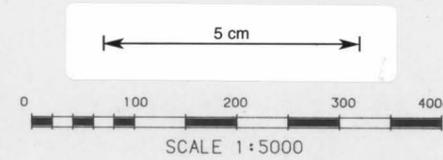
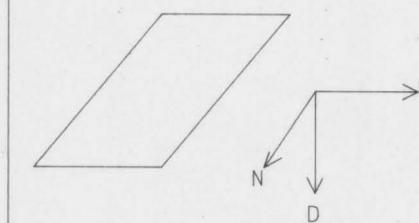
AMOCO MINERALS

PROJECT : HENTY RIVER
AREA : YOLANDE
LINE : 9N
COMP. : E, N & D
Tx LOOP : Tx 1



EM 37
TRANSIENT
ELECTROMAGNETIC SURVEY

FIXED LOOP CONFIGURATION



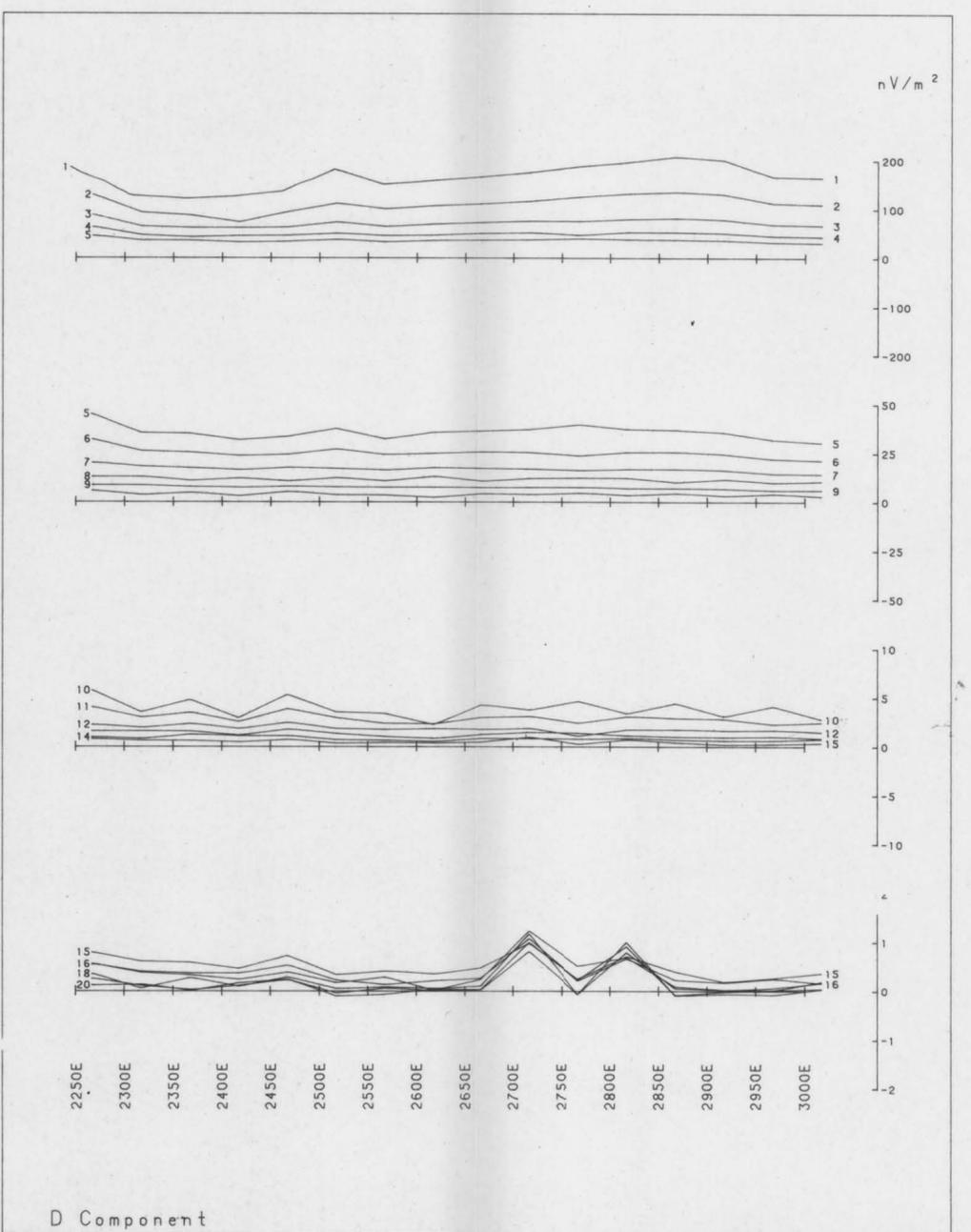
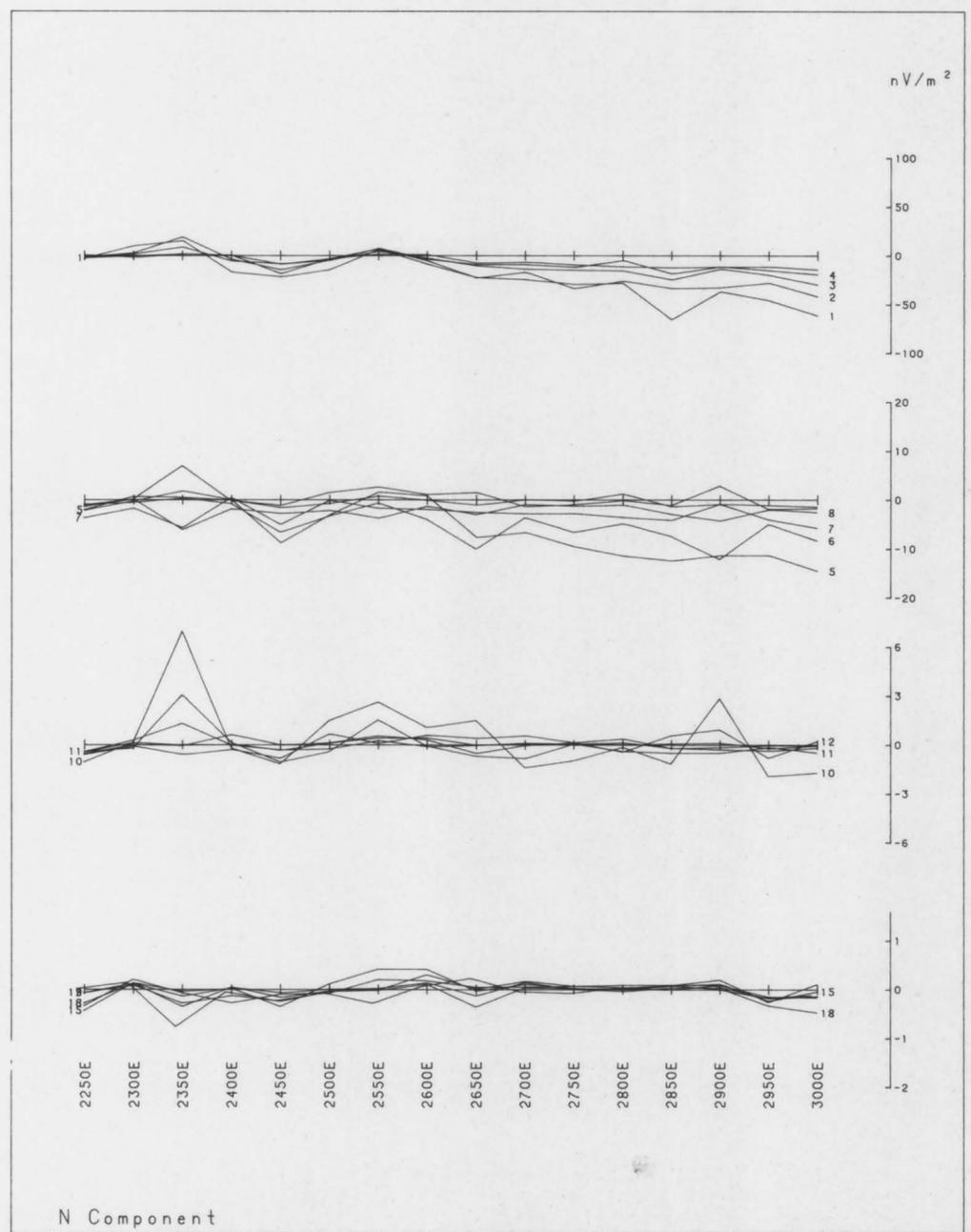
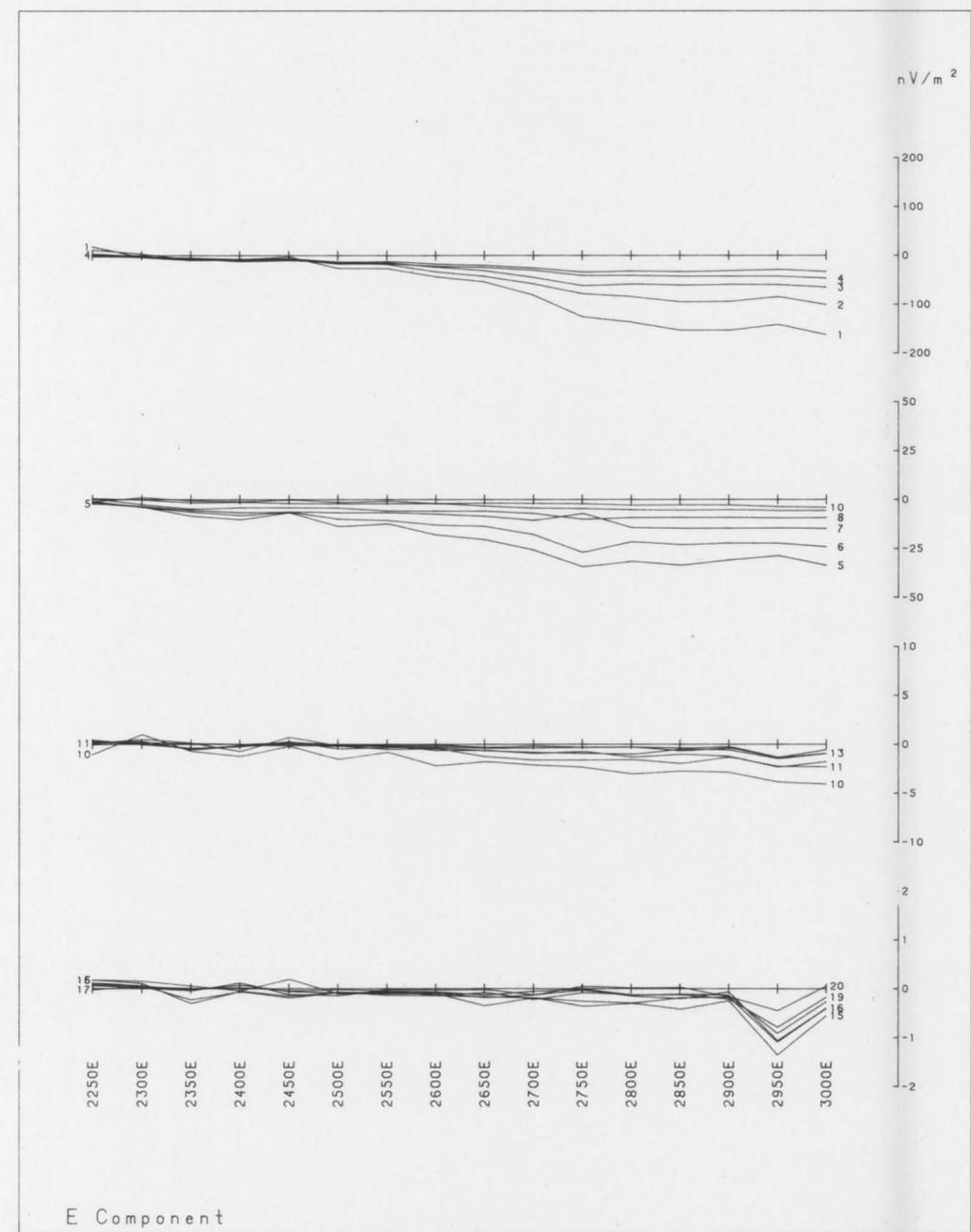
SURVEY SPECIFICATIONS

LOOP CO-ORDS : 1850E 13N 2150E 13N
 : 1900E 8N 2200E 8N

Tx TURN OFF TIME : 230 usec
 FIRST GATE TIME : 0.08 msec
 CURRENT : 18.0 amps
 FREQUENCY : 25 Hz
 INTEGRATION TIME : 256
 SYNC. MODE : XTAL
 SURVEYED BY : P.P
 DATE : MAY -JULY 1985
 JOB NUMBER : 333
 PROCESSING : TESLA 10 PTY LTD

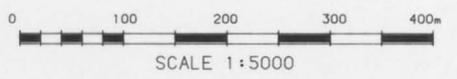
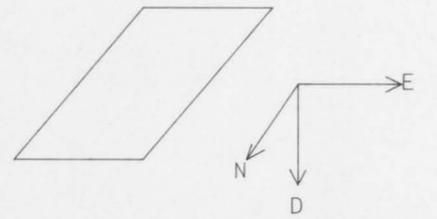
AMOCO MINERALS

PROJECT : HENTY RIVER
 AREA : YOLANDE
 LINE : 10N
 COMP. : E , N & D
 Tx LOOP : Tx 1



EM 37
TRANSIENT
ELECTROMAGNETIC SURVEY

FIXED LOOP CONFIGURATION



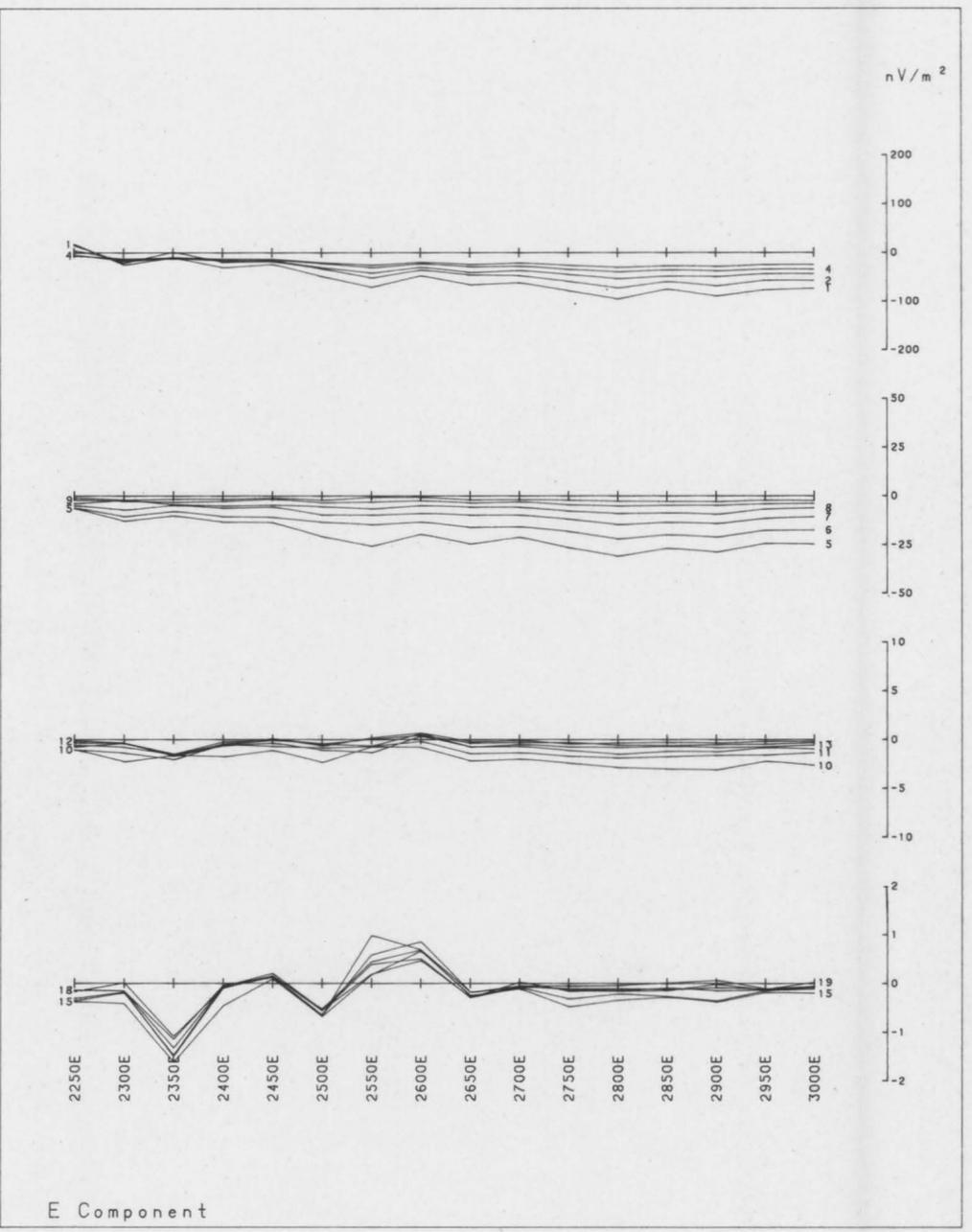
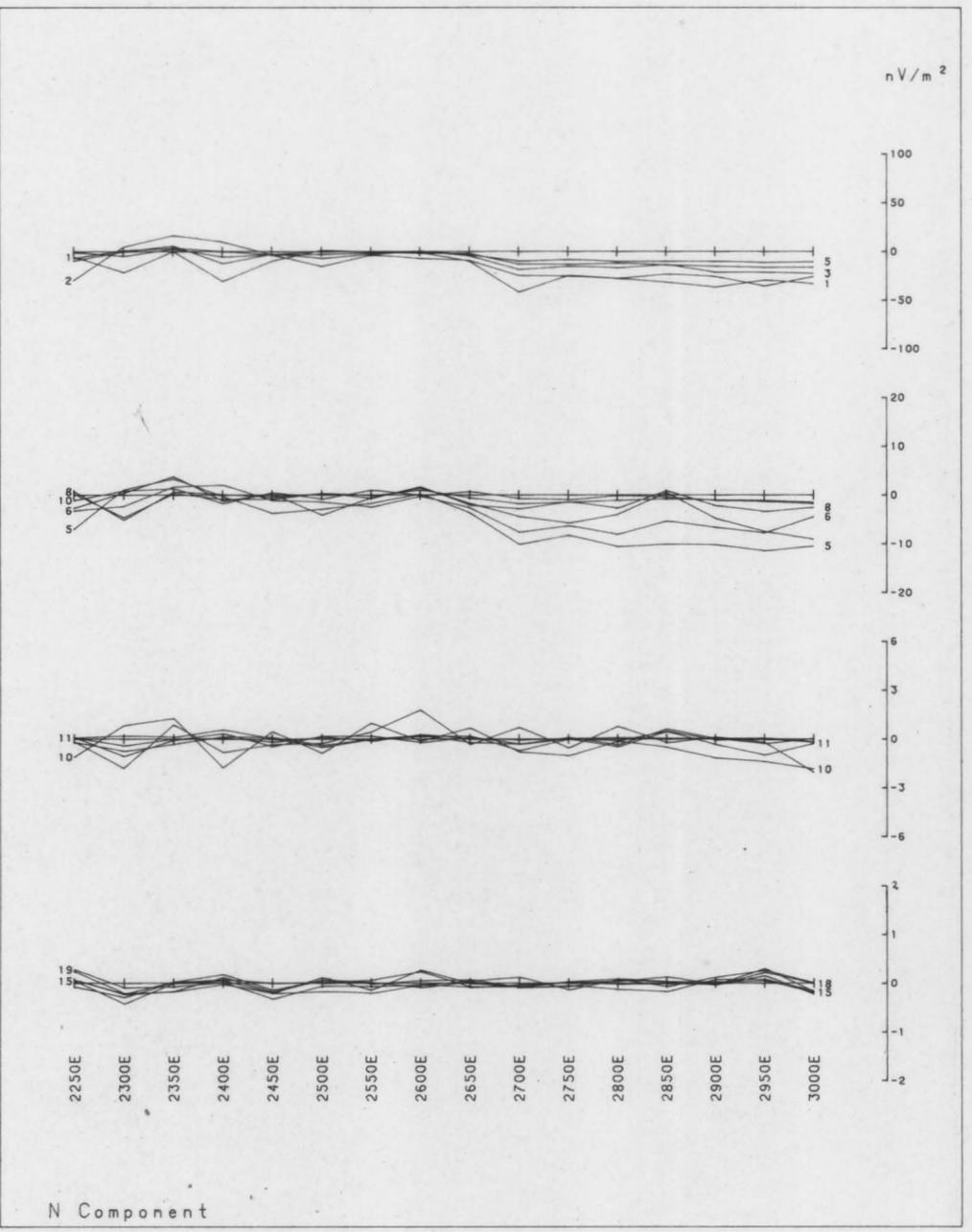
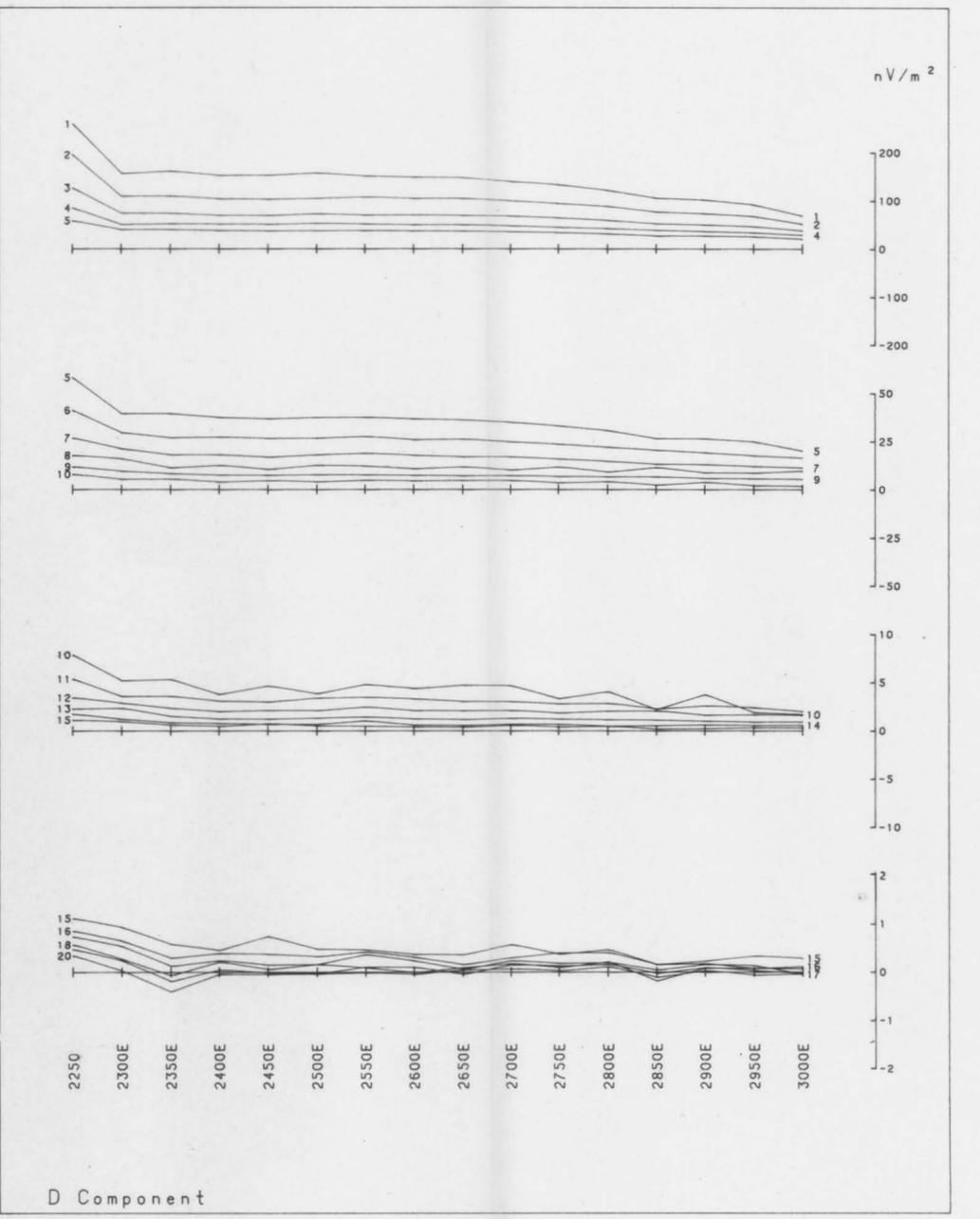
SURVEY SPECIFICATIONS

LOOP CO-ORDS : 1850E 13N 2150E 13N
 : 1900E 8N 2200E 8N

Tx TURN OFF TIME : 230 usec
 FIRST GATE TIME : 0.08 msec
 CURRENT : 18.0 amps
 FREQUENCY : 25 Hz
 INTEGRATION TIME : 256
 SYNC. MODE : XTAL
 SURVEYED BY : P.P
 DATE : MAY - JULY 1985
 JOB NUMBER : 333
 PROCESSING : TESLA 10 PTY LTD

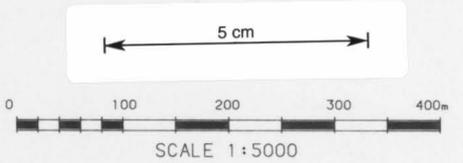
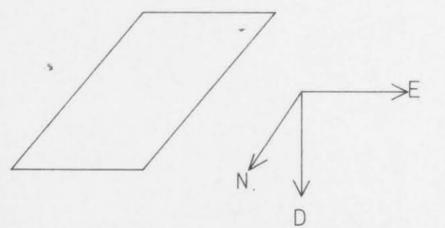
AMOCO MINERALS

PROJECT : HENTY RIVER
 AREA : YOLANDE
 LINE : 11N
 COMP. : E , N & D
 Tx LOOP : Tx 1



EM 37
TRANSIENT
ELECTROMAGNETIC SURVEY

FIXED LOOP CONFIGURATION



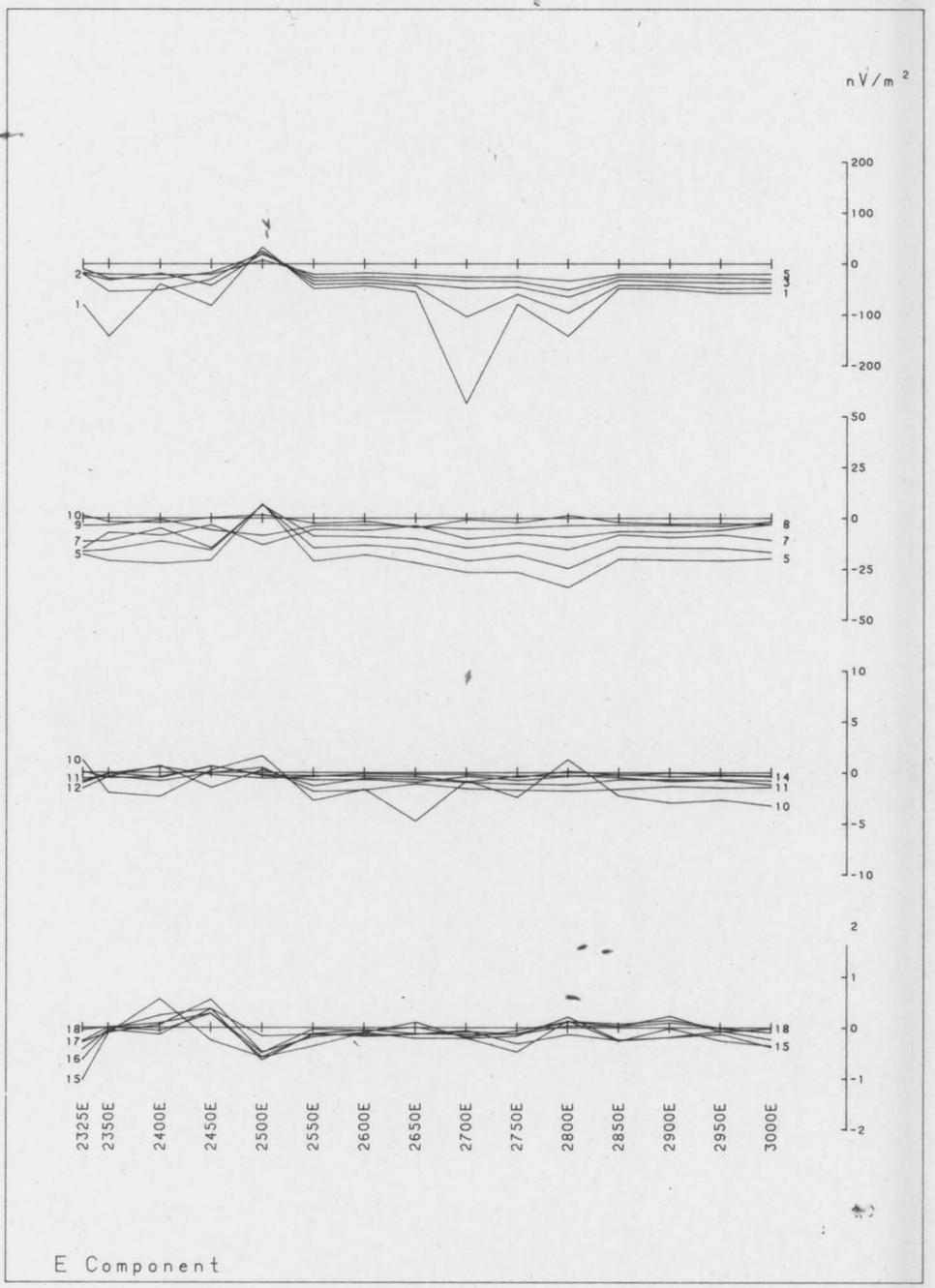
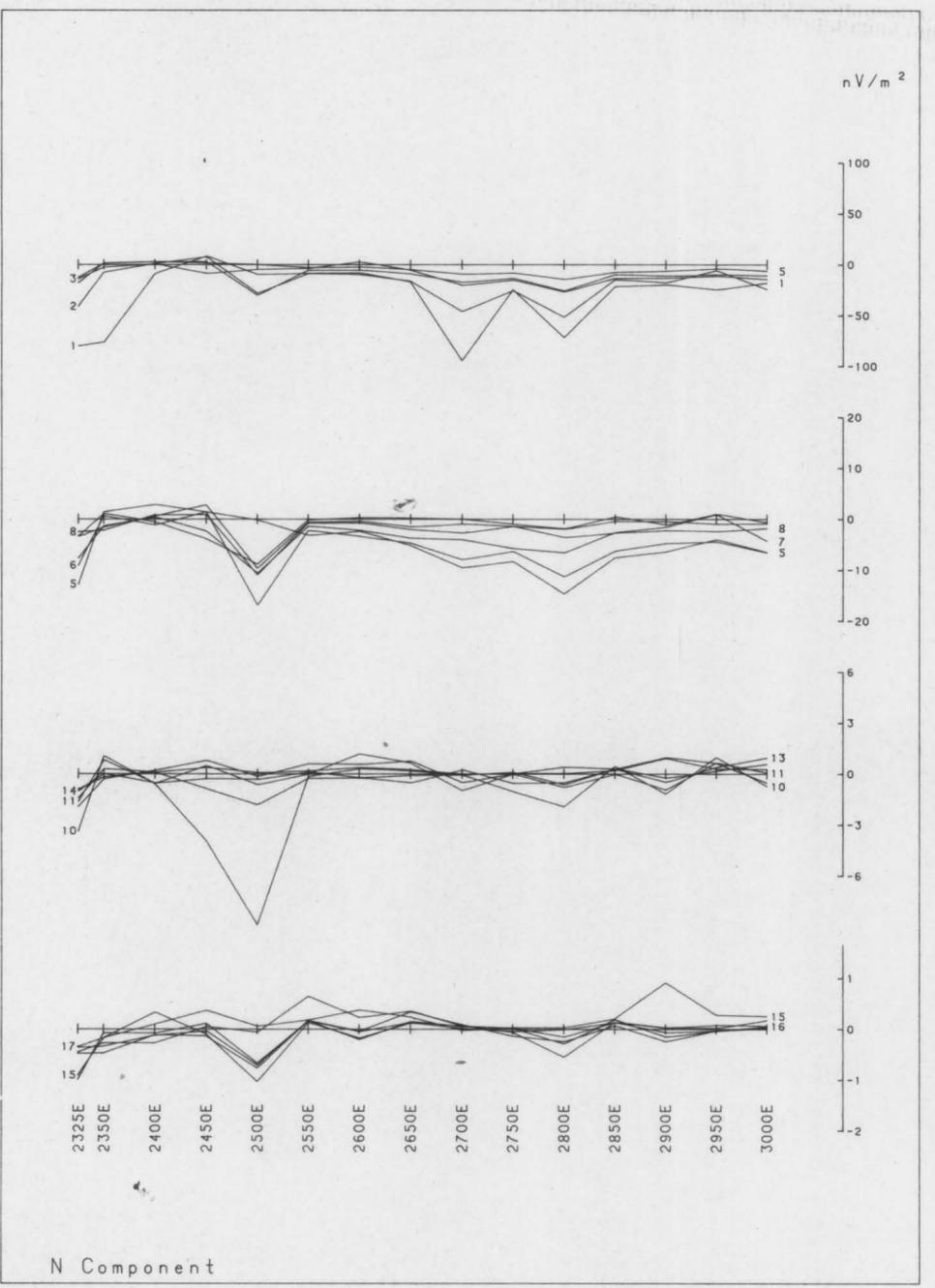
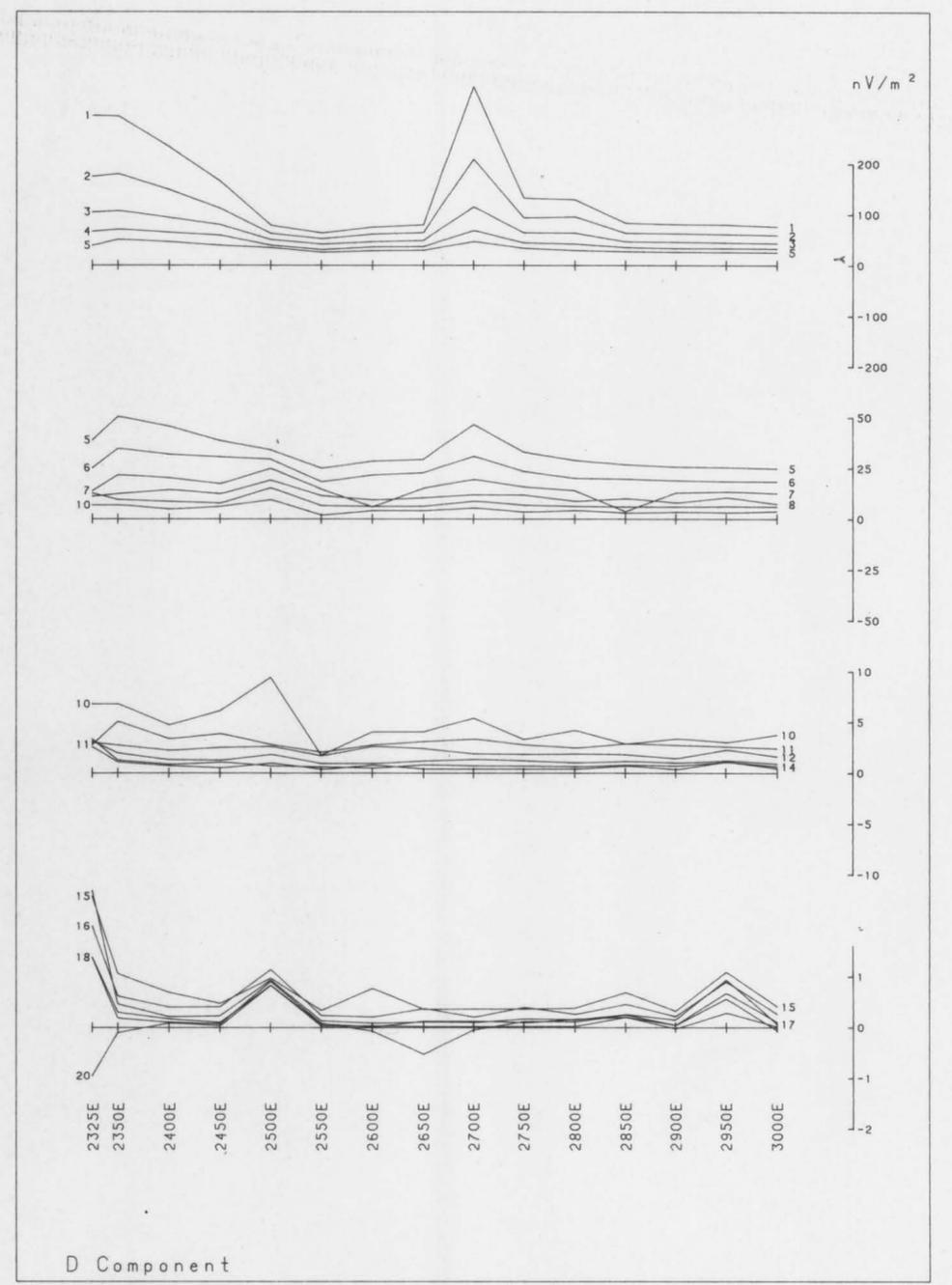
SURVEY SPECIFICATIONS

LOOP CO-ORDS : 1850E 13N 2150E 13N
: 1900E 8N 2200E 8N

Tx TURN OFF TIME : 230 usec
FIRST GATE TIME : 0.08 msec
CURRENT : 18.0 amps
FREQUENCY : 25 Hz
INTEGRATION TIME : 256
SYNC. MODE : XTAL
SURVEYED BY : P.P
DATE : MAY -JULY 1985
JOB NUMBER : 333
PROCESSING : TESLA 10 PTY LTD

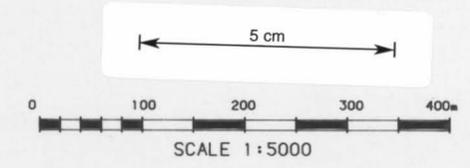
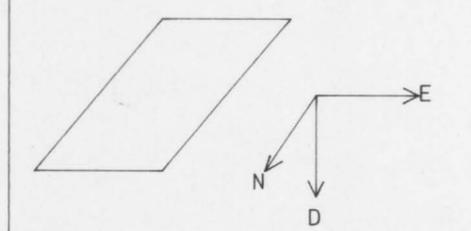
AMOCO MINERALS

PROJECT : HENTY RIVER
AREA : YOLANDE
LINE : 12N
COMP. : E , N & D
Tx LOOP : Tx 1



EM 37
TRANSIENT
ELECTROMAGNETIC SURVEY

FIXED LOOP CONFIGURATION



SURVEY SPECIFICATIONS

LOOP CO-ORDS : 1850E 13N 2150E 13N
 : 1900E 8N 2200E 8N

Tx TURN OFF TIME : 230 μ sec
 FIRST GATE TIME : 0.08 msec
 CURRENT : 18.0 amps
 FREQUENCY : 25 Hz
 INTEGRATION TIME : 256
 SYNC. MODE : XTAL
 SURVEYED BY : P.P
 DATE : MAY -JULY 1985
 JOB NUMBER : 333
 PROCESSING : TESLA 10 PTY LTD

AMOCO MINERALS

PROJECT : HENTY RIVER
 AREA : YOLANDE
 LINE : 13N
 COMP. : E , N & D
 Tx LOOP : Tx 1

