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LOONGANA EL 36/79

REPORT ON EXPLORATION FOR 12 MONTHS

TO 1 APRIL 1987



Author: T von Strokirch

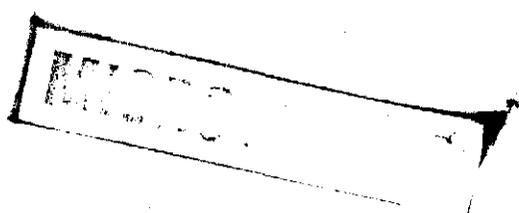
Date: 16 March 1987

Submitted to: T W Dickson

Accepted by: *TW Dickson*

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 CRAE Canberra
 Department of Mines,
 Tasmania
 Billiton Australia

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1. SUMMARY

A UTEM survey has been conducted over the Cattley North grid and the grid area has been mapped. A number of EM anomalies have been found that are worthy of follow-up.

Downhole EM tests were conducted on the holes at Two Hummocks. No major anomalies were recorded.

Analyses of the regional cyanide leach programme were received. No new prospective areas were identified.

2. INTRODUCTION

This report describes work carried out on EL 36/79 (Loongana) for the year ending 1 April 1987.

The EL is the subject of a joint venture between Billiton Australia and CRA Exploration Pty Limited. In March 1985 CRAE began exploring the licence in conjunction with the neighbouring licences, EL 7/74 (Moina) and EL 8/77 (Riana).

EL 36/79 is situated approximately 35 km south of Burnie and is dominantly used for logging and forest management (see Plans TASH 2954 and 2956).

3. CONCLUSIONS

The Cattley North prospect is an interesting geological environment showing potential for volcanogenic massive sulphide targets. Geophysical and geochemical tests have focused on the south western corner of the grid.

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The downhole EM indicates that no significant mineralisation is present in the vicinity of the drillholes at Two Hummocks.

4. RECOMMENDATIONS

1. Follow-up of the geophysical and geochemical anomalies in the Cattley North area with soil geochemistry and ground magnetics.
2. Drill test any targets resulting from 1.
3. Reconnaissance geological mapping and rock chip sampling in the Native Track Tier area to determine the source of the drainage anomalies.

5. GEOLOGY

The Loongana Exploration Licence lies at the central-western end of the WSW trending Fossey Mountain Trough. The area consists of a series of anticlines and synclines generally trending EW, with major fault trends running NNW to NW. Anticlinal cores are generally occupied by Cambrian acid to intermediate volcanics, sediments and cherts of the Mt Read group.

The Cambrian is unconformably overlain by the Ordovician Roland Conglomerate and Moina Sandstone. This in turn is overlain by the Gordon Limestone which outcrops in an EW trending synclinal structure at Taylors Flats.

Tertiary basalt masks the underlying geology over much of the licence area.

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Previous explorers' work concentrated within the Cambrian volcanics with some attempts to trace the volcanics under basalt cover proving unsuccessful.

6. REGIONAL GEOCHEMISTRY

Following the regional stream sediment programme completed in the previous exploration period the data were closely examined to attempt to identify subtle anomalies. No new anomalous areas were located. The major anomalous areas continued to be those outlined by Geopeko, ie. Challenger 1 (Cattley North), Challenger 2 (Native Track Tier) and Challenger 3 (Two Hummocks). The anomalous results are summarised in Plan TASH 3356.

7. TWO HUMMOCKS PROSPECT

7.1 Geology

The Two Hummocks prospect lies within a window of Cambrian sediments and volcanics surrounded by Ordovician conglomerate and Tertiary basalt. The area has been explored in the past by Geopeko, Pennzoil and Shell.

Geological mapping carried out by Geopeko indicated a sequence of acid volcanics, and volcanic derived sediments with interbeds of carbonaceous shale. Weak disseminated galena occurs at the base of a shale horizon exposed in a quarry and a minor barite occurrence was exposed during costeaning.

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7.2 Previous Exploration

Re-interpretation of RRMIP and UTEM surveys performed by previous explorers resulted in the drilling of PD85 TH1 and PD85 TH2 in the previous reporting period. These holes intersected altered tuffs, minor black shales and a weakly altered rhyolite. No significant mineralisation was intersected.

7.3 Downhole Geophysics

Following the drilling of holes PD85 TH1 and PD85 TH2 the holes were tested with downhole SIROTEM. Interference with a nearby EM37 survey caused some minor noise problems but there were clearly no major conductors present. In TH1 a small conductor was recorded but this was interpreted to be due to a narrow source within five metres of the drillhole. A likely cause would be a small shale unit. If the conductor was due to a sulphide body it does not have sufficient dimensions to be an economic ore body. Unfortunately the contractor did not produce good quality plots in the field and the data was lost when he returned to base so no data can be included with this report.

7.4 Discussion

As no significant mineralisation was intersected during the drilling and no major conductors were detected by the downhole EM the prospect is significantly downgraded. No further work is planned at this stage though opportunities for exploration still exist under the basalt.

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8. CATTLEY NORTH PROSPECT

8.1 Geology

The area consists of a sequence of previously largely undifferentiated Cambrian rocks overlain by Ordovician conglomerates and Tertiary basalts. Part of the area has previously been mapped by Geopeko and a major black shale and a small pyritic body were recognised.

It was postulated that the area lay on the same north-south trending anticlinal structure as the Que River and Hellyer orebodies.

A decision was made that the most effective tool in the search for base metal ore bodies was transient EM. A grid was therefore cut for the TEM and a contract geologist, S Hunns, was employed to map the area. His report is contained in Appendix 1 and summarized on plan TASH 3349.

8.2 Geophysics

A UTEM survey was proposed for the Cattley North area. A total of 51 kilometres of line was cut, 36.9 kilometres of reading line and 14.1 kilometres of additional loop line. Six loops were used. Readings were taken using two 10 channel receivers taking readings at 25 metre stations with a frequency of 26.23 Hz. Profiles of continuously normalised data are included with the report. Some points are missing where stations were located in the Leven River. Eight anomalies which extended over more than one line were

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recorded. A further eight one line anomalies were also recorded. The major anomalies were due to the conglomerate contact, an altered volcanic unit and black shales. The strike of the shale anomalies (as shown on Plan TASH 3289) does not agree with that of Hunns (Appendix 1) and both the geological and geophysical interpretation will need to be checked. At this stage Plan TASH 3289 only summarises a qualitative interpretative study. A more quantitative interpretation is still to be completed.

8.3. Geochemistry

A number of reconnaissance rock chip samples were taken within the grid area (Plan TASH 3131). The earliest samples showed evidence of elevated gold and base metals (270 ppb Au and 1200 ppm Pb) in a quartz porphyry intrusive in the south western corner of the grid. Follow-up sampling succeeded only in confirming the anomalous metal values (with values of 210 ppb Au and 880 ppm Pb) but did not significantly upgrade it.

8.4 Discussion

Most of the UTEM anomalies are explainable by obvious geological features but a number are not and require on-site investigation. Among these are a four line anomaly and a number of small single line anomalies in the southwestern part of the grid, not far from where the anomalous geochemistry was recorded. A programme of soil sampling, ground magnetics and probable drilling to follow is proposed in this area.

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9. FUTURE PROGRAMME

- 9.1 Investigation to follow-up the drainage anomalies over the Native Track Tier have yet to be completed. This work would involve reconnaissance geological mapping, further stream sediment sampling, and rock chip sampling.
- 9.2 On the Cattley North Grid it is proposed that the UTEM interpretation be completed and followed up. This follow-up is to consist of soil sampling across unexplained UTEM anomalies including sampling across the whole SW corner of the grid where anomalous rock geochemistry, geology and geophysics have been recorded. A ground magnetic survey is also proposed across this area to aid in geological and geophysical interpretation. It is hoped that drill targets will be developed from this work.

10. REFERENCES

- Caithness S J 1986 Loongana EL 36/79. Report on exploration for 12 months to 1 April 1986. CRAE Internal Report No 13863.
- Lawton J J et al 1983 EL 36/79 Loongana. Progress Report on exploration for period 1.5.80 to 3.6.83. Unpublished Shell Report No 08-1266
- Wright R G 1984 EL 36/79 Loongana. Progress Report on exploration for period 1.7.83 to 30.6.84. Unpublished Shell Report No 08-2263
- & Smyth W D

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11. LOCATION

Burnie 1:250 000 Sheet SK5503

12. KEYWORDS

Geochem-drainage, Drill-Percussion, Geochem-Rock,
Geophysics-EM, Geophysics-Downhole, Cambrian, Volcanics

13. LIST OF PLANS

<u>Plan</u>	<u>TASh No</u>		<u>Scale</u>
	2954 X	Loongana EL 36/79 Location Plan	1:1 000 000
	2956 †	Loongana EL 36/79 EL & Prospect Location Plan	1:100 000
	3092 †	Loongana EL 36/79 Regional Geology	1:25 000
	3131 †	Loongana EL 36/79 Cattley North Prospect Geochem, Locations & Results	1:10 000
	3234 X	Loongana EL 36/79 Cattley North Prospect Loop 1 Continuous Normalization Line 21600	As Shown
	3235 X	Loongana EL 36/79 Cattley North Prospect Loop 1 Continuous Normalization Line 21800	"

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3236 X	Loongana EL 36/79 Cattley North Prospect Loop 1 Continuous Normalization Line 22000	As Shown
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3289 X	Loongana EL 36/79 Cattley North Prospect UTEM Anomaly Plan	1:10 000
3349 X	Loongana EL 36/79 Cattley North Prospect Geology	1:10 000

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Loongana EL 36/79 CRAE Regional
Stream Sediment Sample Locations
1985-86 with Anomalous Results

1:25 000

14. LIST OF APPENDICES

Appendix 1 Geology of Cattley North

APPENDIX 1

GEOLOGY OF CATTLEY NORTH

THE GEOLOGY OF CATTLEY NORTH, LOONGANA EL 36/79INTRODUCTION

From 5 January 1987, approximately 4-5 weeks were spent mapping the area. Initially mapping was confined to road sections and grid lines with limited creek mapping. Best outcrop exposures are along the loop or ring road of the EL and some creek sections. Mapping along grid lines was hindered by lack of outcrop, so that float mapping was done, wherever possible. Coordinates given are relative to local grid except where otherwise specified (plan TASH 3349).

GEOLOGYQuaternary/Recent

Here deposits are characterized by scree slopes of Owen Conglomerate boulders to the east and north of the EL. Owen Conglomerate boulders were found near hill slopes and within areas that drain the central part of the EL.

Tertiary basalt scree and soils were mapped in the southwestern, western and northeastern quadrants of the EL.

Tertiary

The northeastern, southwestern and western quadrants of the EL are covered by flood basalts. They tend to cover extensive areas of lowlands (generally areas less than 650m A.S.L.).

Ordovician

The eastern (eg. Mt Tor), northern ridges of the EL are capped by Owen Conglomerate. This unit is composed of large quartzite pebble conglomerates, sandstone units and angular pebble size conglomerate bands.

Cambro-Ordovician (?)

- A unit of interbedded of polymict conglomerate
- (Clasts up to 30cm, angular to well rounded)

Feldspathic crystal rich volcanic and a volcanic sediment(?) was mapped along the northern extension of the forestry road near line 23,000N, 50,480E.

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The conglomerate consists of predominantly volcanics and minor shale clasts. They are up to 30cm across and are sub-rounded to angular in form, possibly Jukes conglomerate(?). A thin fine grained feldspathic crystal rich volcaniclast(?) is interbedded with the conglomerate unit of above. The contact orientation is approximately east-west. Underlying(?) the above units is a massive fine grained siltstone unit (volcanic sediment(?)). This unit is marked by the presence of small, flattened to rounded irregularly shaped mass of mudstone pellets (3-13mm in diameter). In some sections the pellets have been stretched and have coalesced parallel to the cleavage within the unit.

Rare to minor altered zones of feldspar crystals and mafic fragments were mapped within this unit. A quartz phyrlic lithic tuff was mapped with a strong cleaved (70/020°) quartzite pebble conglomerate outcrops. This unit might represent a tongue of Owen Conglomerate from the ridges to the east.

Cambrian - Igneous

A large roughly wedged shaped f-mg andesitic intrusive was mapped within the central part of the EL. It is dark brown in colour, contains 0.8mm size mafics and smaller euhedral feldspar crystals in a cryptocrystalline groundmass. It contains rare-minor disseminated magnetite, most noticeably in a quarry at the road junction near 21,400N, 50,800E. A fault was mapped within this unit.

A quartz porphyry outcrop on the ring road from approximately 20,600N 50,420E - 20,600N, 50,550E. This unit is composed of a fg felsic groundmass with angular glassy quartz phenocrysts.

It appears as though the quartz phenocrysts become coarser towards the centre of the outcrop. At the northern contact between the quartz porphyry and black shales, the shales are strongly deformed. This with the change in phenocryst size suggests that porphyry is an intrusive. Sulphide staining and pyrite grains are common. A second possible exposure of the porphyry occurs near 21,800N, 51,870E.

Volcanics/Sediments

This is a sequence of interbedded laminated black shales with occasional tuffaceous bands. Very fine grained (vfg) to fine grained (fg) felsic vitric (cryptocrystalline) tuffs, with or without quartz phenocrysts. Quartz

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feldspar crystal tuffs, euhedral quartz and/or feldspar crystals in a vfg-fg groundmass of felsic material and/or sericite. A feldspar, quartz crystal rich (40-50% crystals) volcanoclastic, with angular lithic and/or volcanic fragments. Conglomerate with rounded to angular quartzite volcanic fragments in a fg siliceous matrix. The clast size is variable, and has a range up to 10cm. A volcanoclastic breccia containing angular volcanic fragments and subordinate quartz and feldspar phenocrysts.

Alteration of the volcanics is generally limited and is predominantly sericitic, with rare-minor chloritic alteration. Weathering and oxidation of the outcrops has in parts made field identification of the rocks difficult at times.

MINERALIZATION

The most prominent occurrence of mineralisation is of the quartz porphyry at 20,600N, 50,420E. This is characterized by sulphide staining and disseminated pyrite grains. The pyrite occurs as euhedral crystals up to 1mm across. Minor pyrite mineralization was found within the black shales, either as fine disseminated grains or as localized "vughs". Disseminated pyrite was also found within outcrops of the fg siliceous vitric tuffs. Pyrite mineralization was also found in the northern part of the EL in the quartz feldspar crystal volcanoclastic, as discrete euhedral pyrite crystals. A possible pyritic was also found within this unit. No base metal mineralization was noted.

STRUCTURE

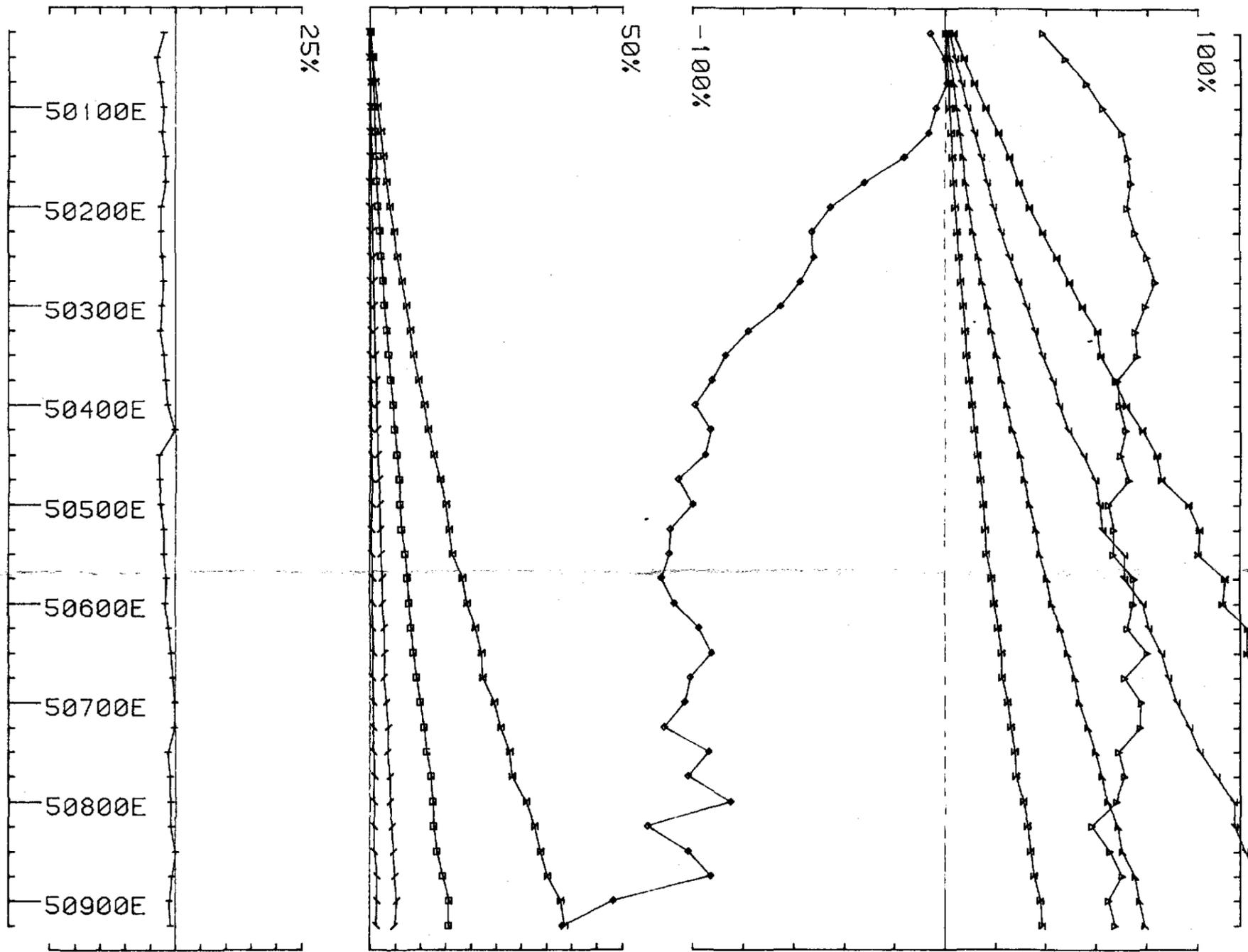
The rocks within the EL appear to be folded into a shallowly(?) southeasterly plunging anticline. This is evident from the swing in the strike of the black shales in the south east of the EL, and the possible repetition of units in the east and west of the EL. The core of the anticline is occupied by the andesite wedge.

Two "major" faults were mapped. One within the andesite. This is evident by polished surfaces and slickensides. The second fault was mapped in a creek, accessed from AMG 405800E, 5140600N. This fault is evident by strong shearing parallel to the creek and occupies a shallow narrow gully.

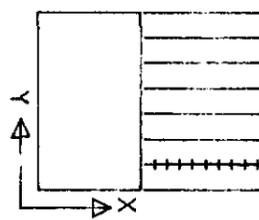
S R HUNNS

25 February 1987

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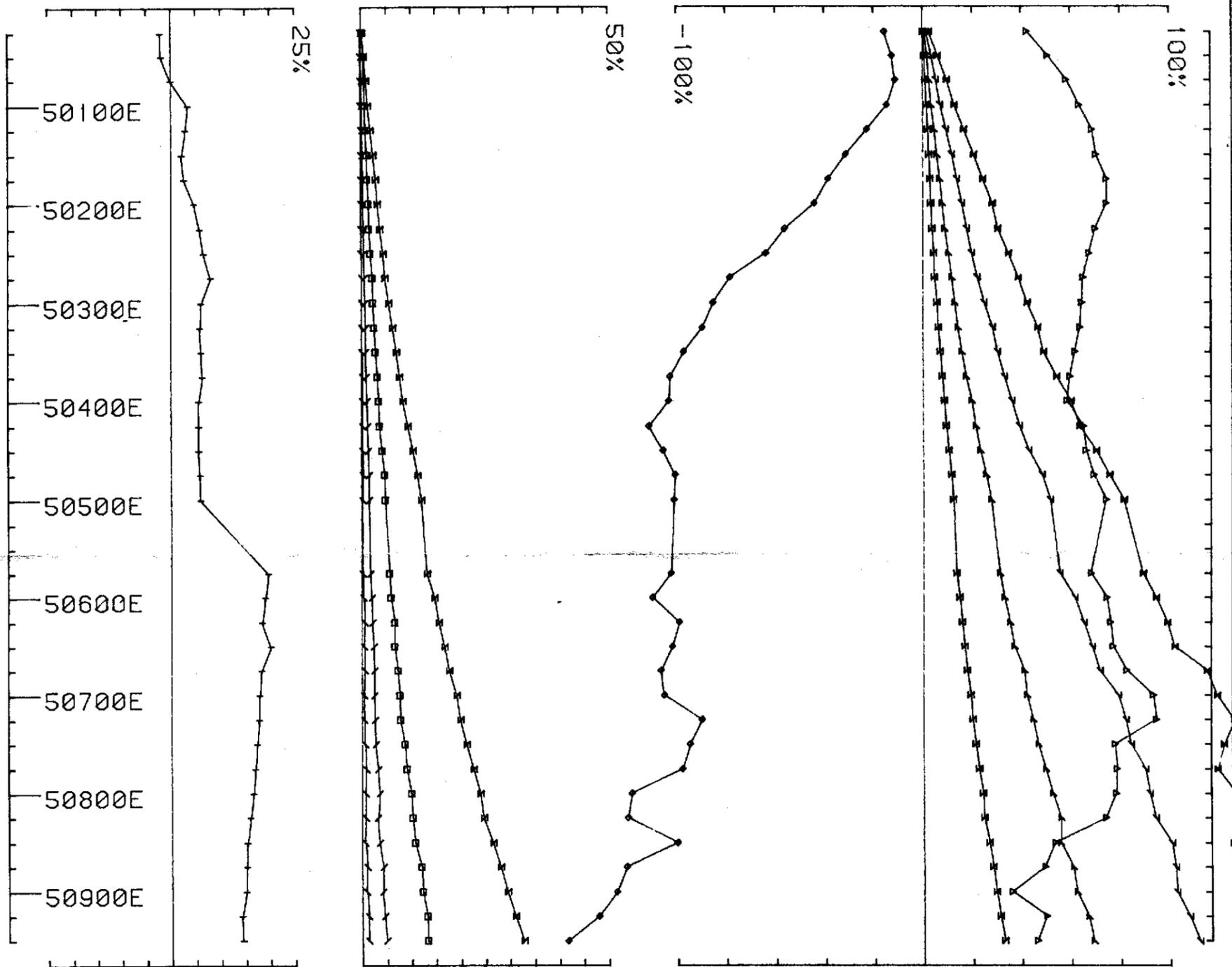


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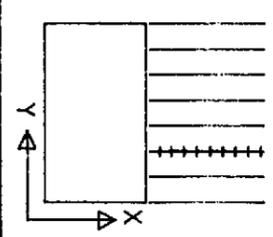


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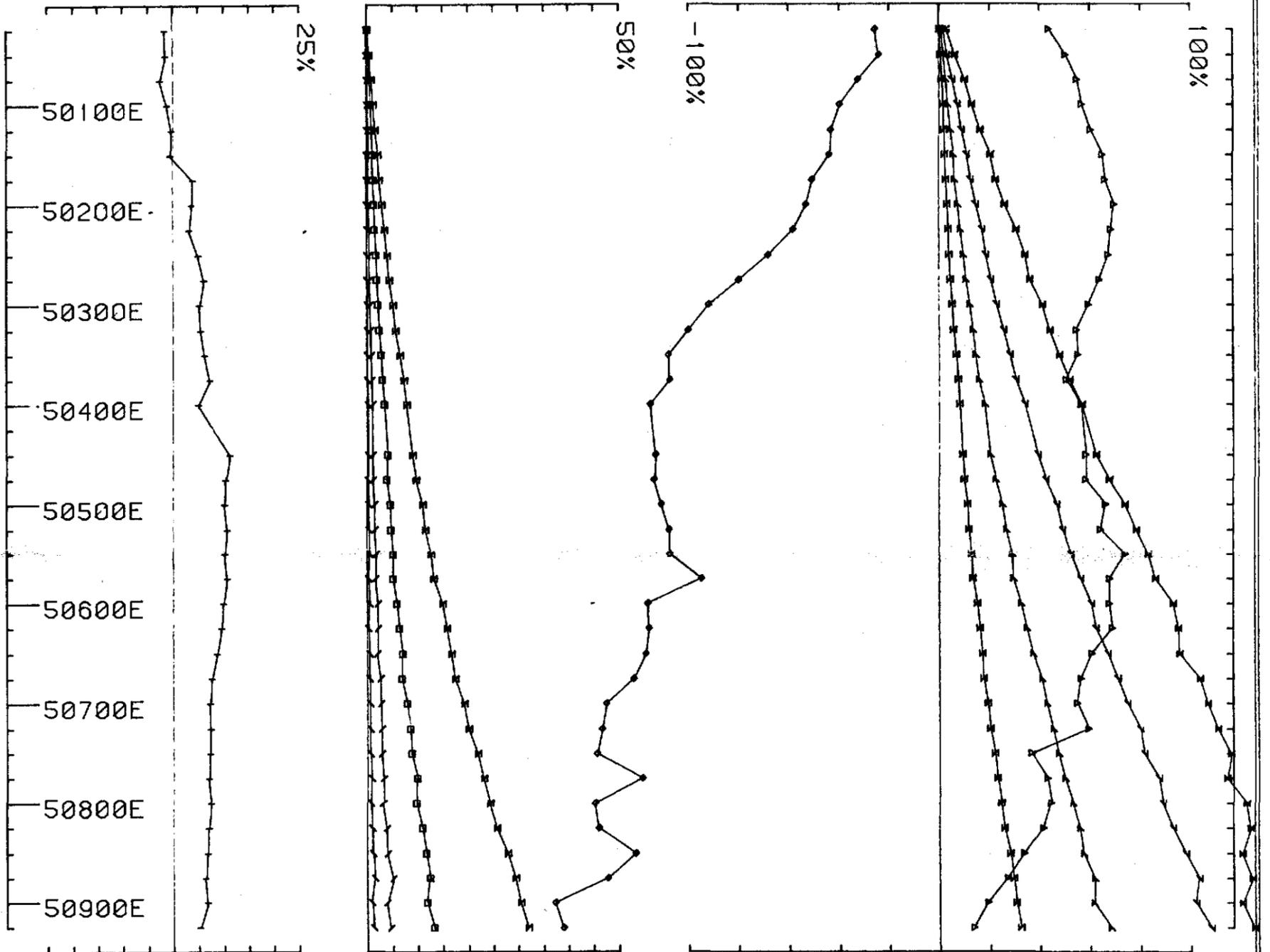


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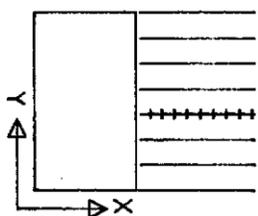
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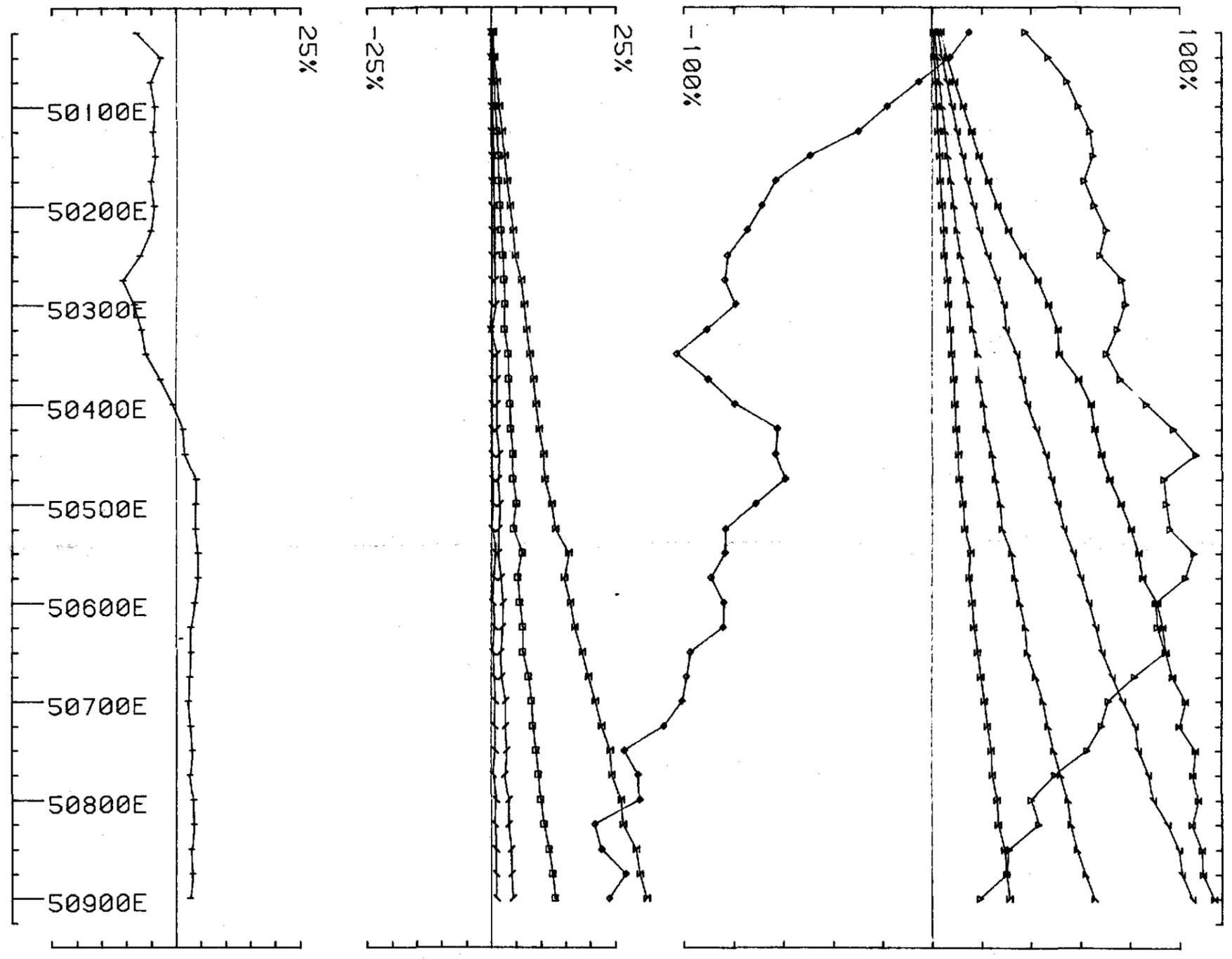


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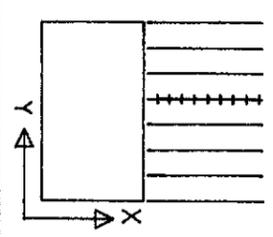


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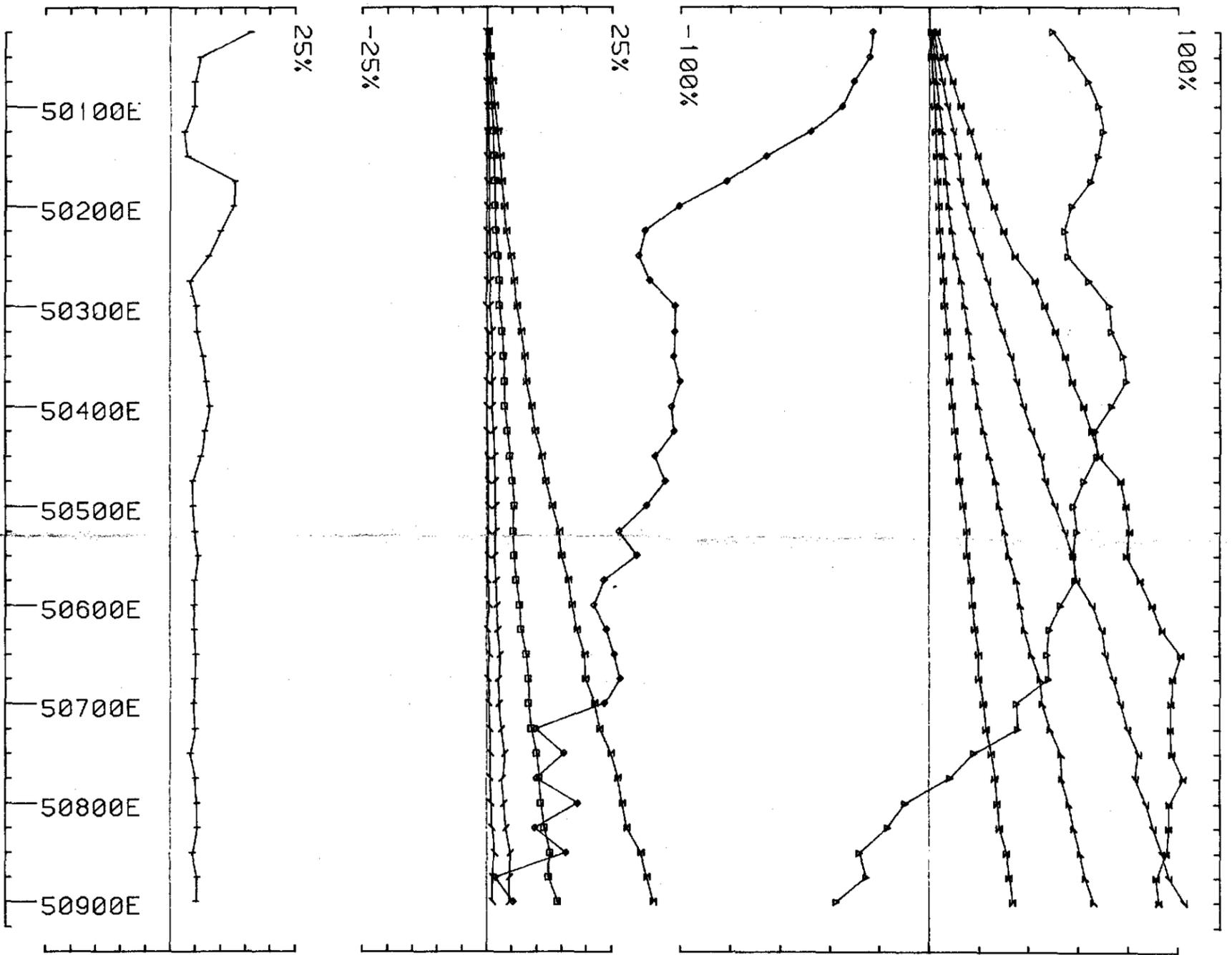
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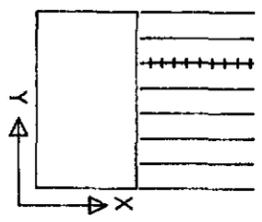
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TASH 3237

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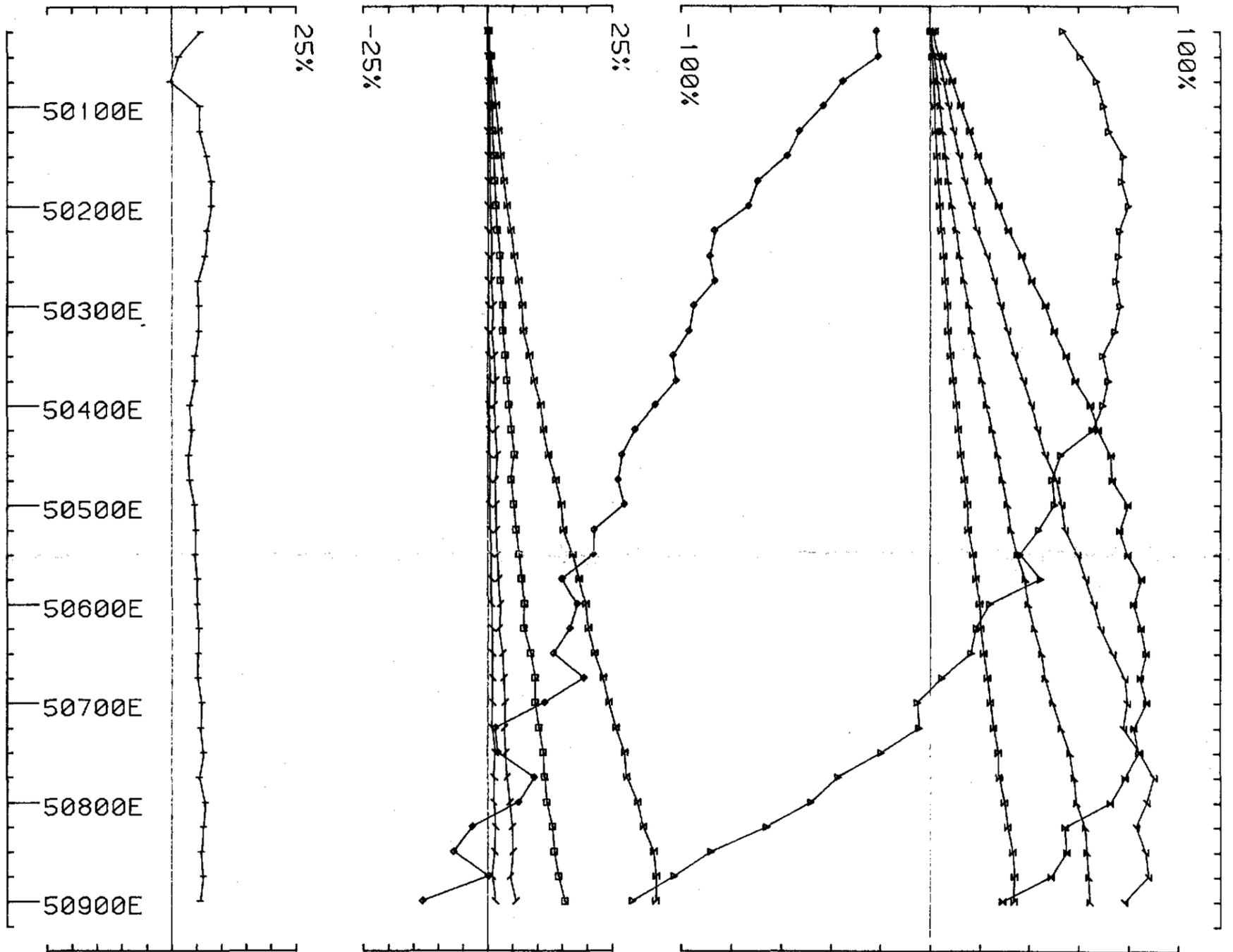


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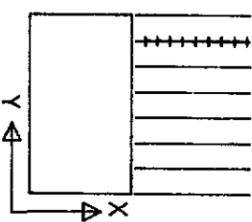
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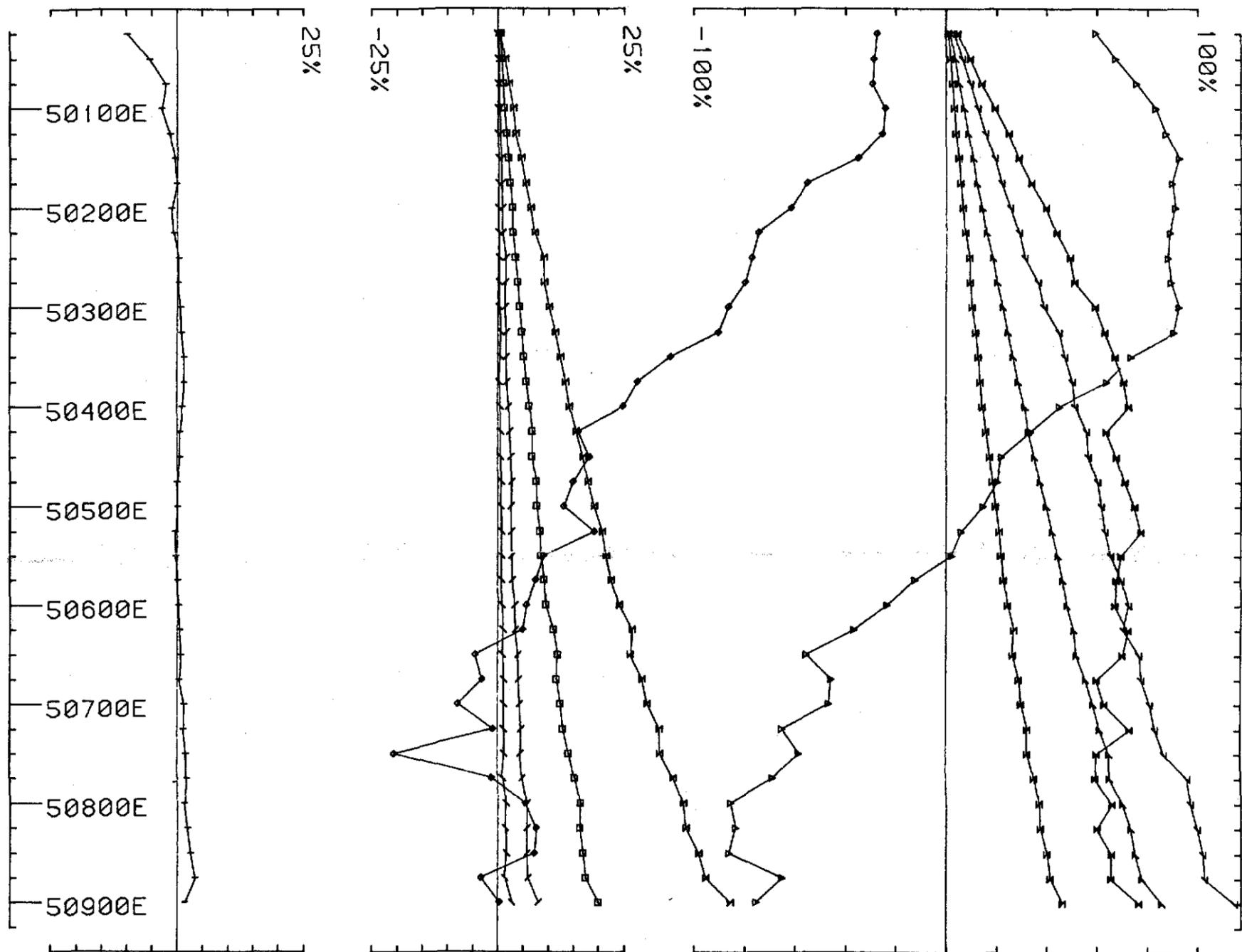


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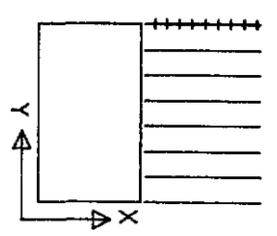


Mt. Cattley
 LOOP 0001
 LINE 22600
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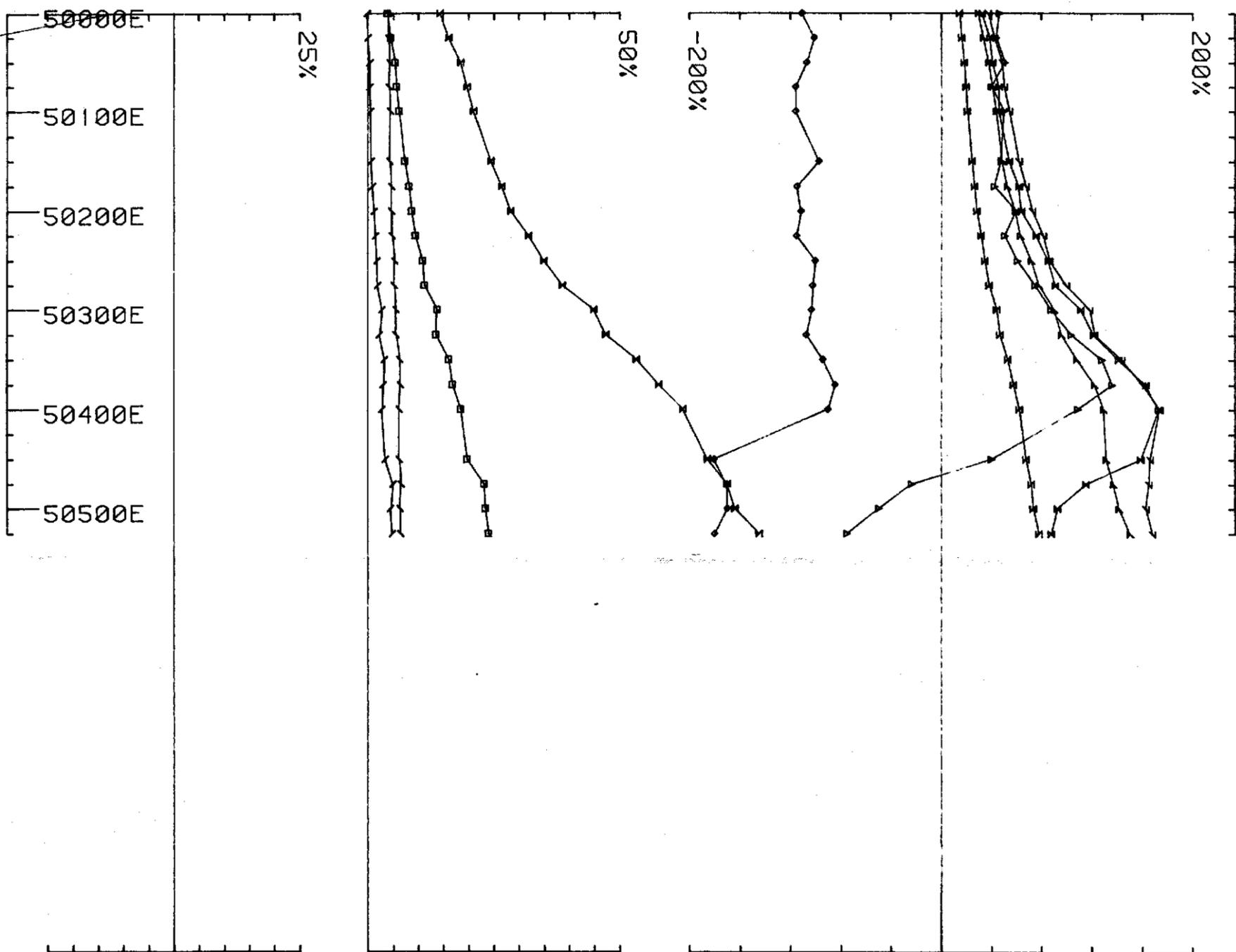


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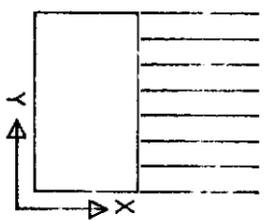
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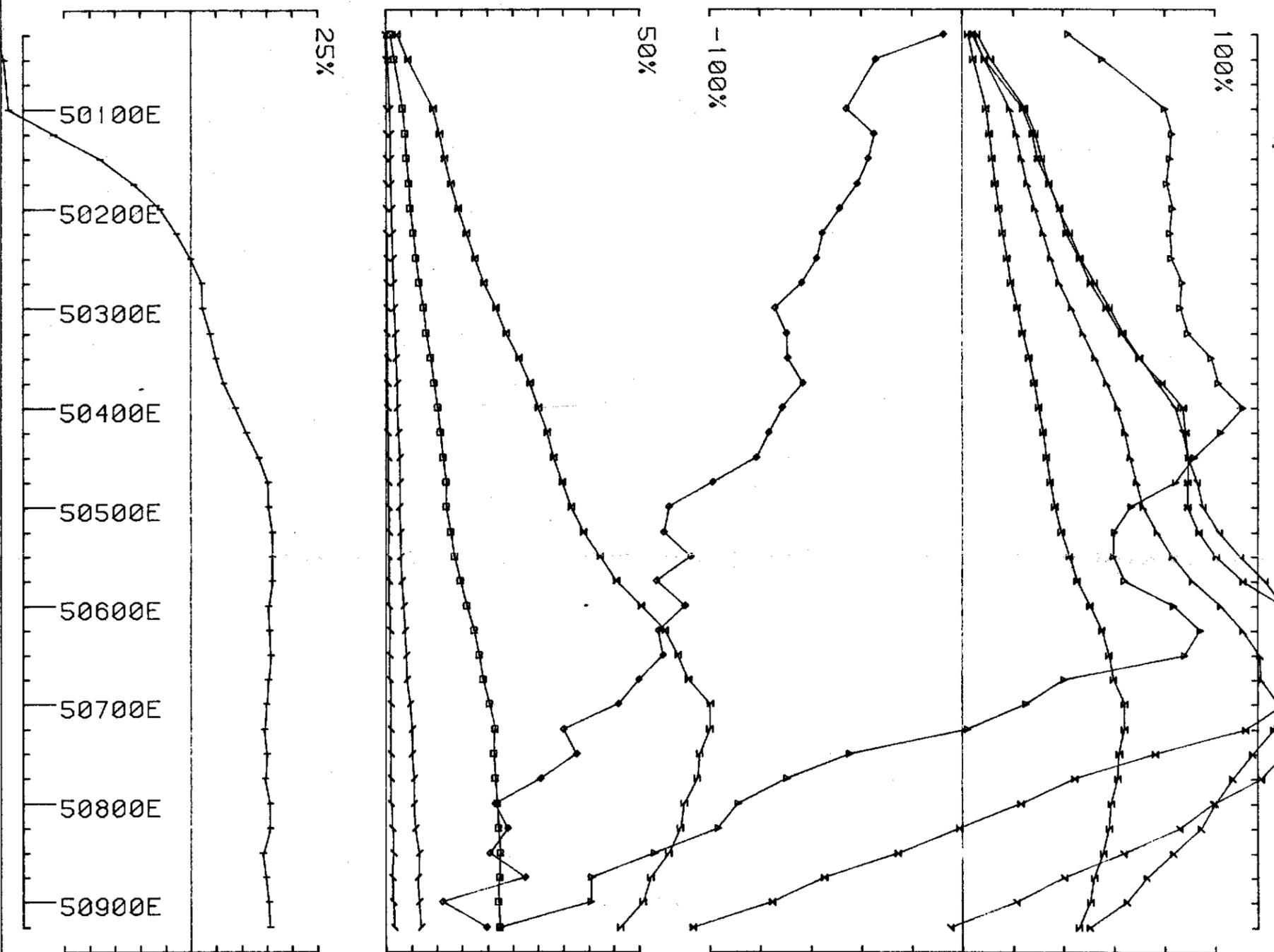


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 Line 19800N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

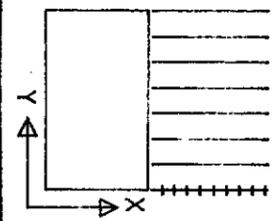


Mt. Cattley
 LOOP 0002
 LINE 19800
 Hz

028



LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- RH
 Line 20000N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

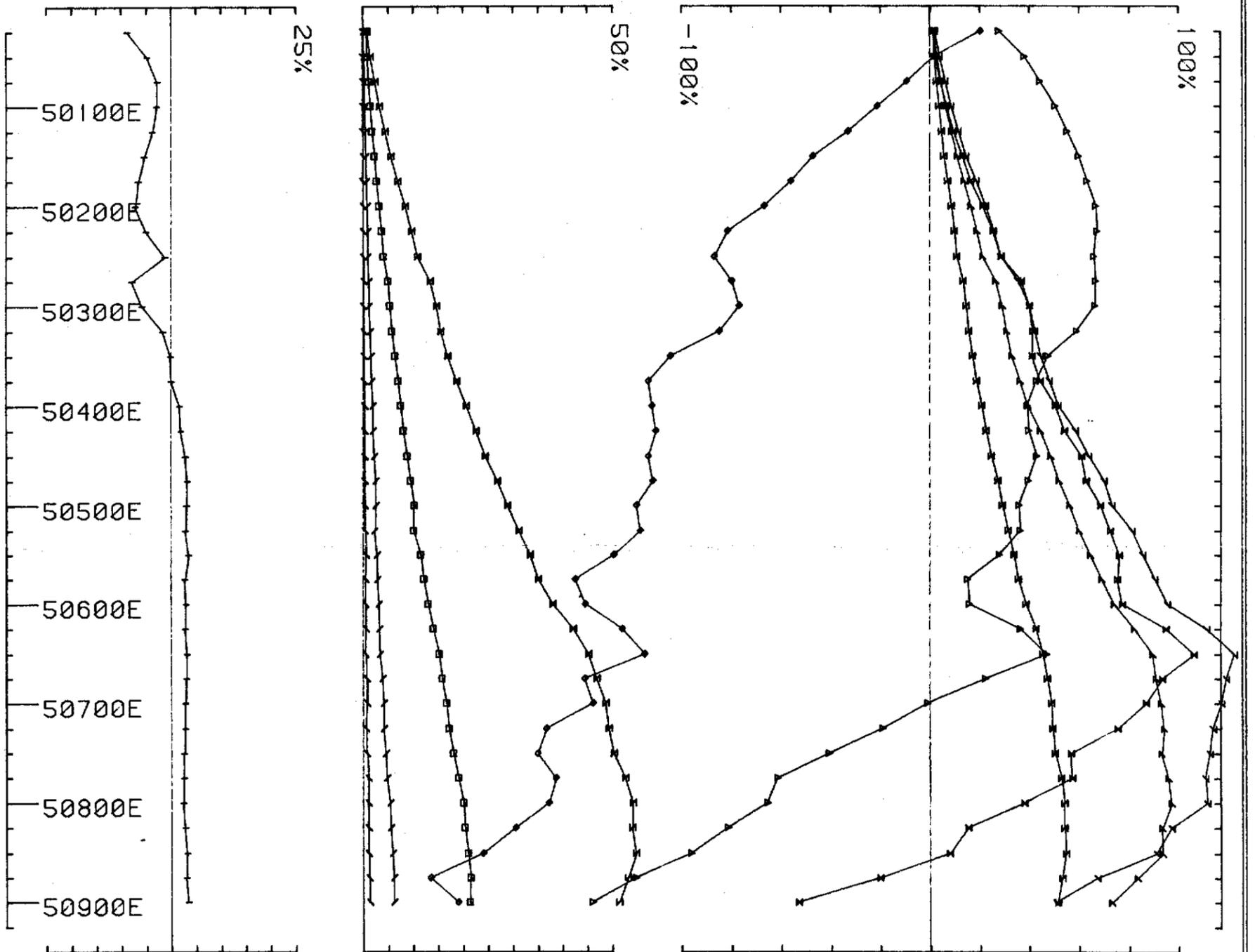


Mt. Cattley
 LOOP 0002
 LINE 20000
 Hz

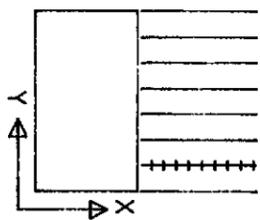
TASH 3242

934029

029



LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- RH
 Line 20200N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

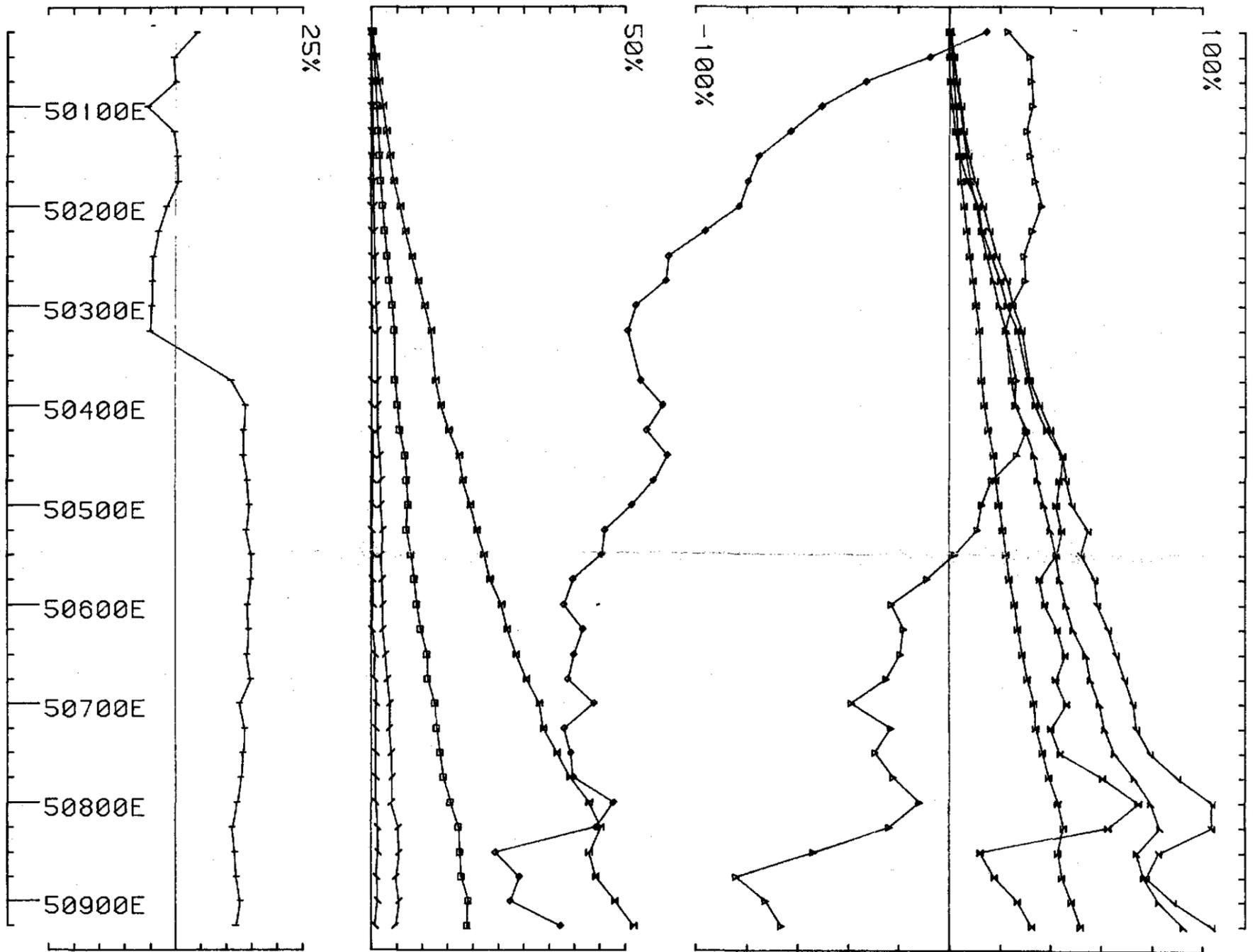


Mt. Cattley
 LOOP 0002
 LINE 20200
 Hz

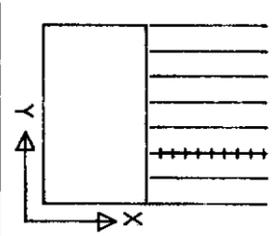
TASh 3243

934030

030



LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- RH
 Line 20400N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

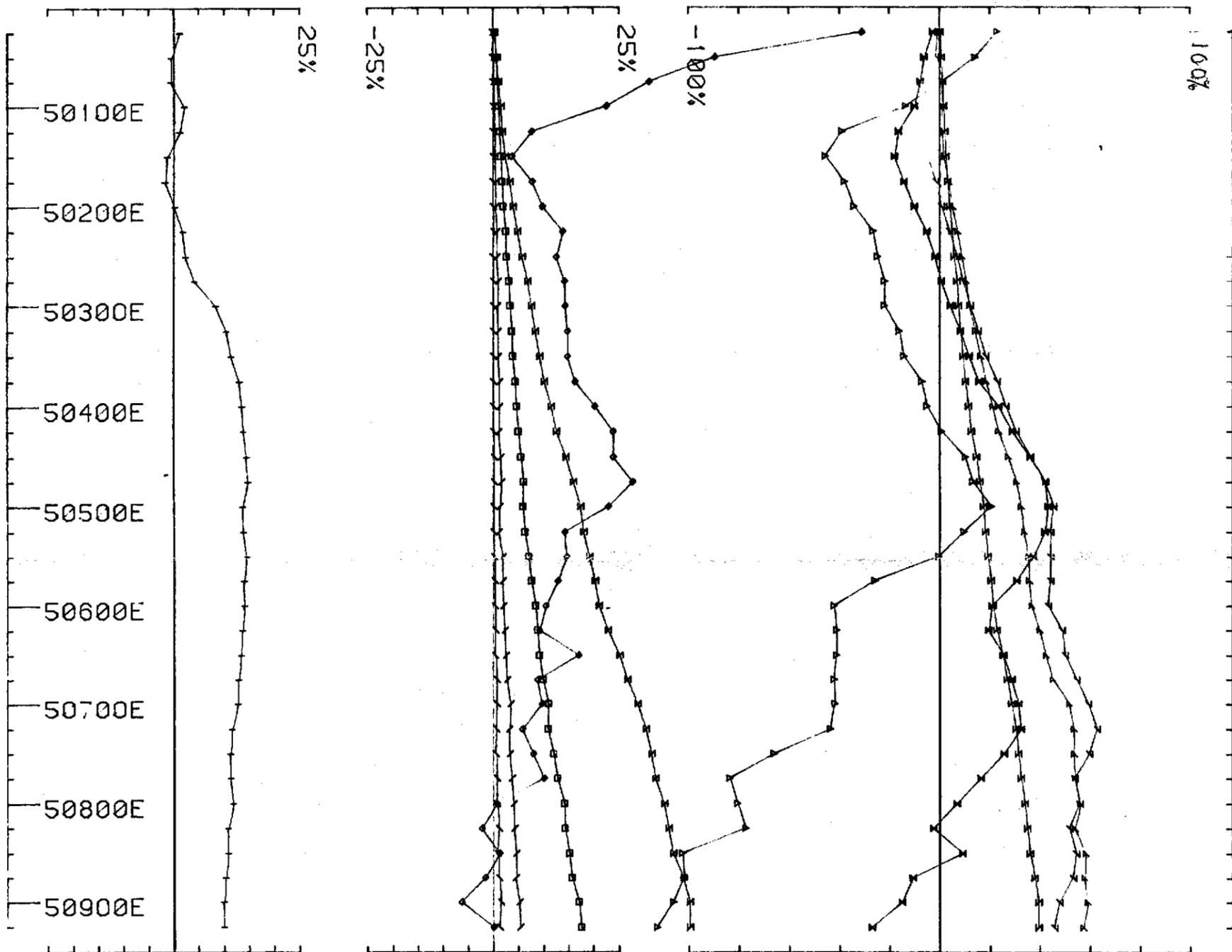


Mt. Cattley
 LOOP 0002
 LINE 20400
 Hz

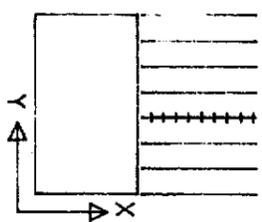
TASH 3244

934031

031



LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- RH
 Line 20600N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

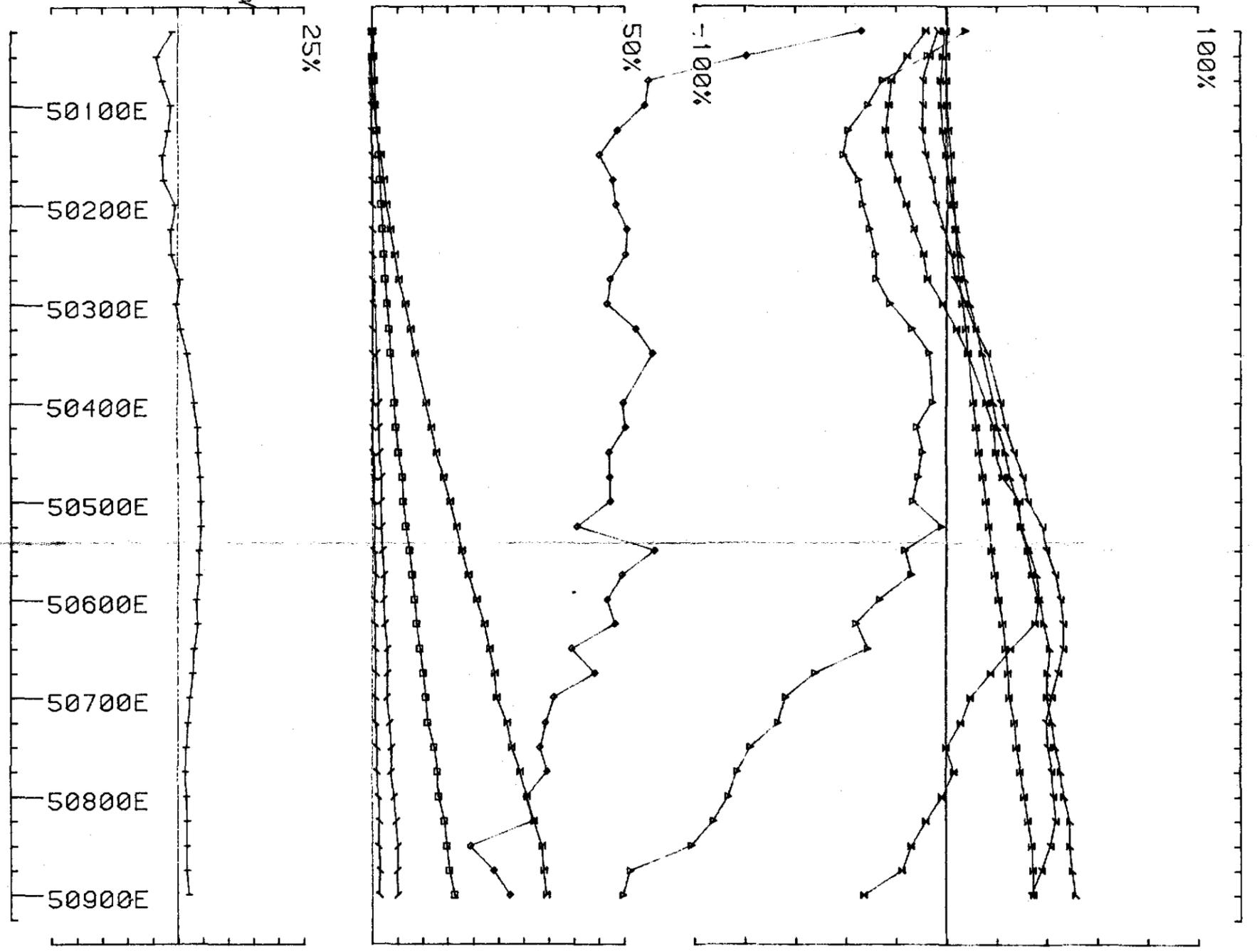


Mt. Cattley
 LOOP 0002
 LINE 20600
 Hz

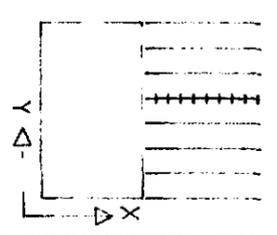
032

N.B. Station 50375 was deleted as it was a connector anomaly which was not detected in the field. It spiked channel 1 and channels 8, 9 and 10.

***Please Note: Stations missed on the data previously are in the middle of the Lever River.



LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM
 Line 20800N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

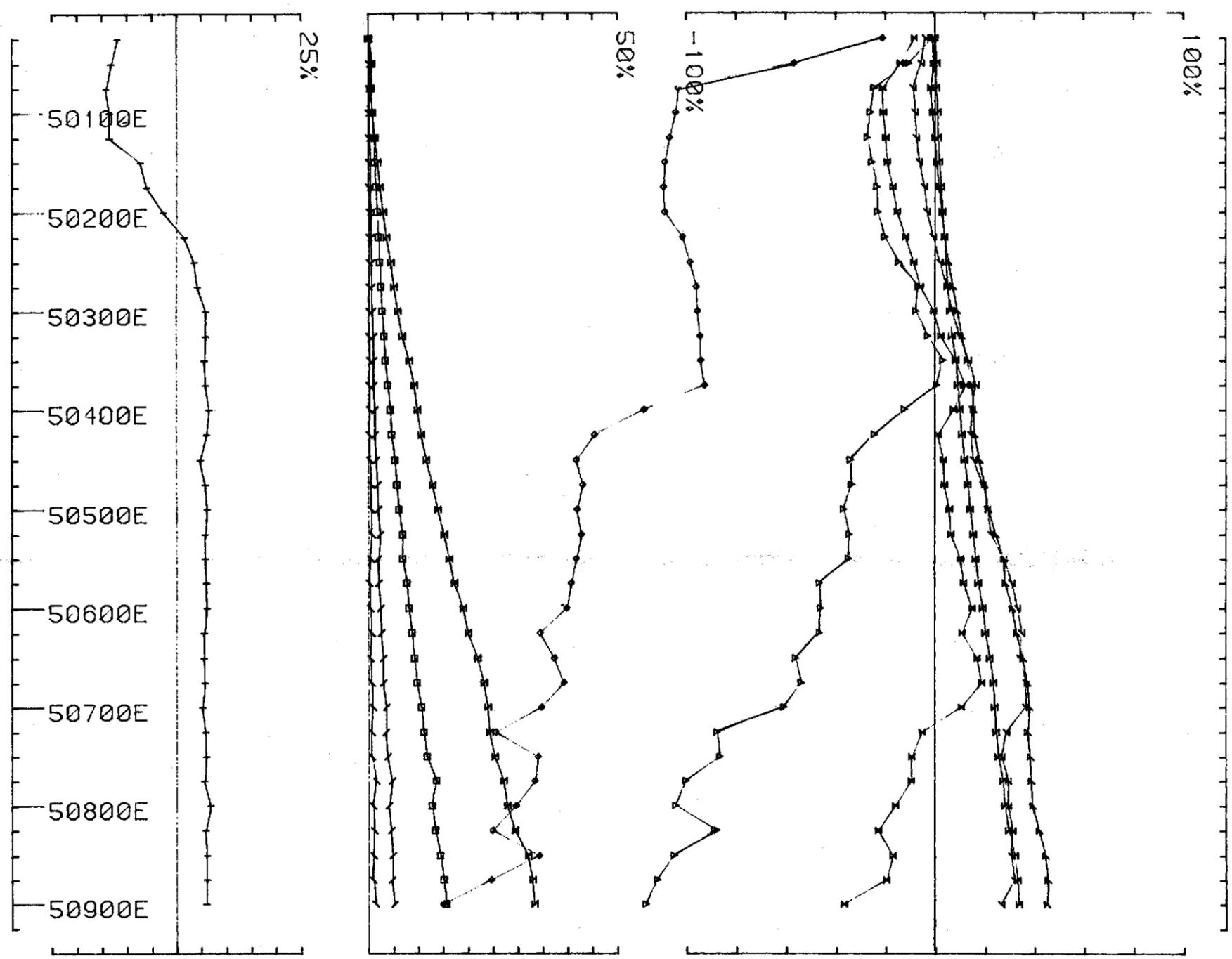


Mt. Cattley
 LOOP 0002
 LINE 20800
 Hz

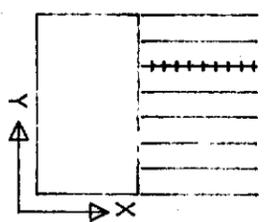
TASH 3246

934033

033



LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM
 Line 21000N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

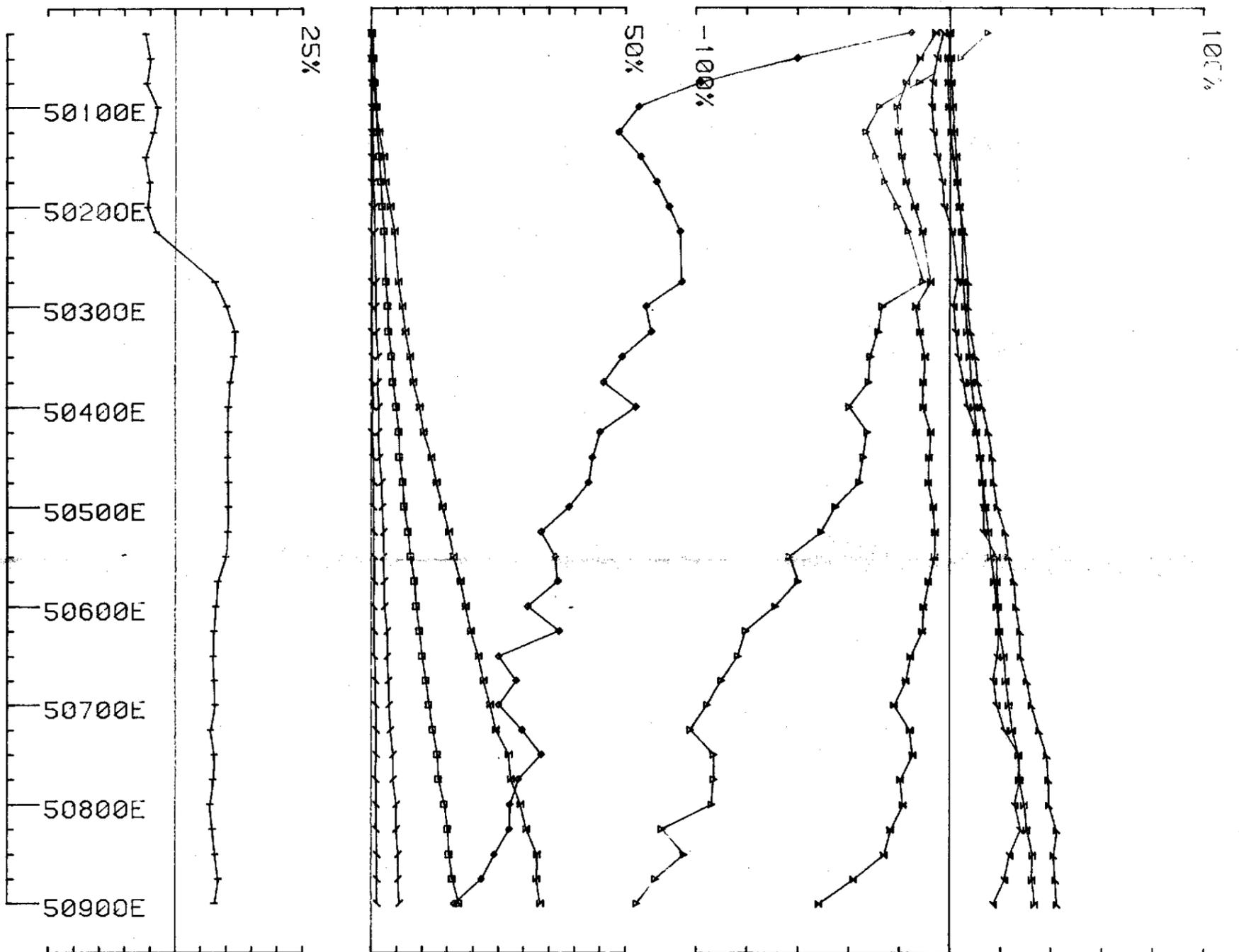


Mt. Cattley
 LOOP 0002
 LINE 21000
 Hz

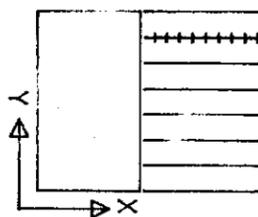
TASH 3247

934034

034



LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM
 Line 21200N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

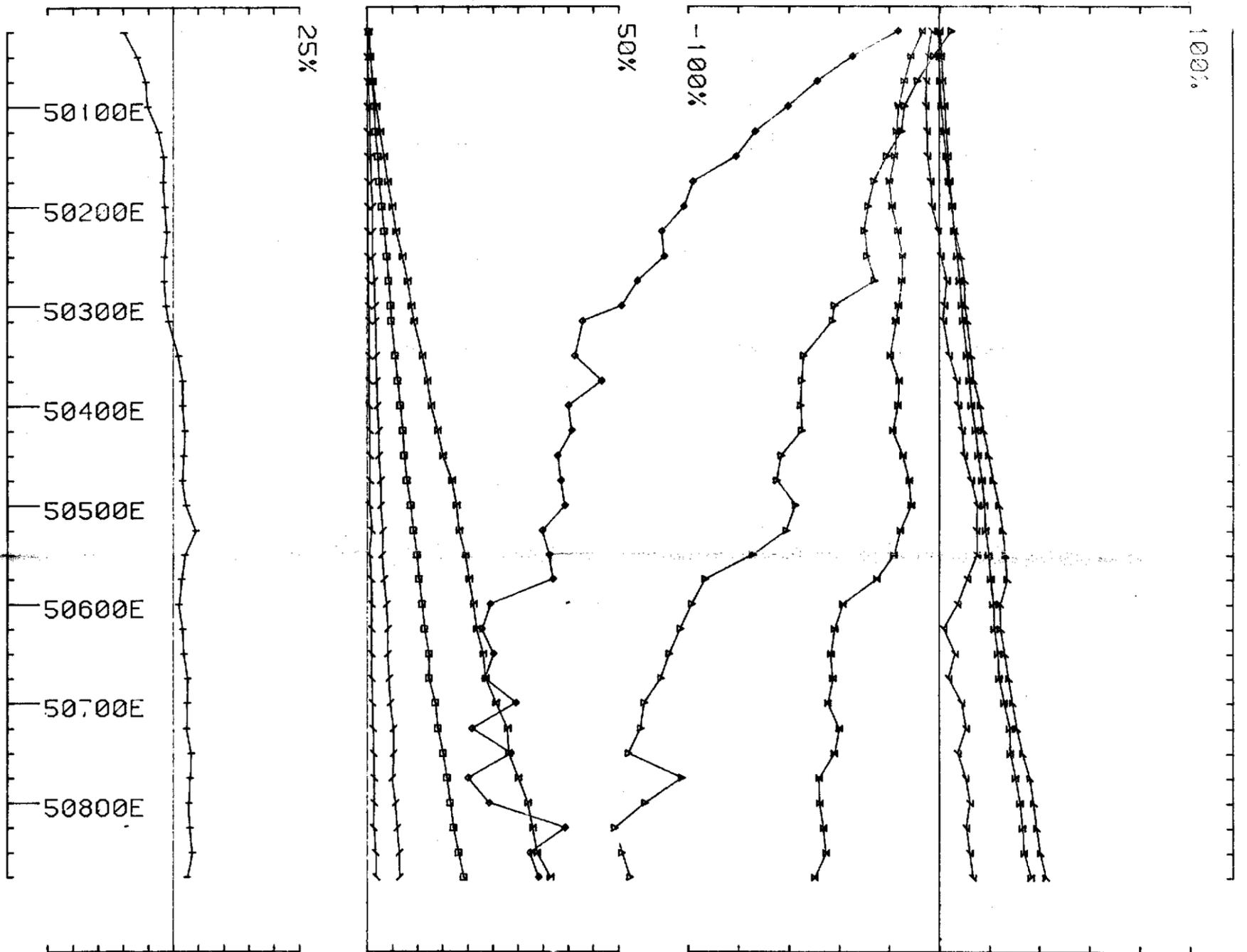


Mt. Cattley
 LOOP 0002
 LINE 21200
 Hz

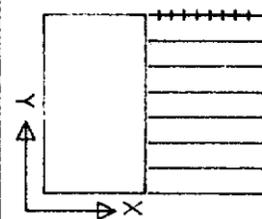
TASH 3248

934035

035



LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM
 Line 21400N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

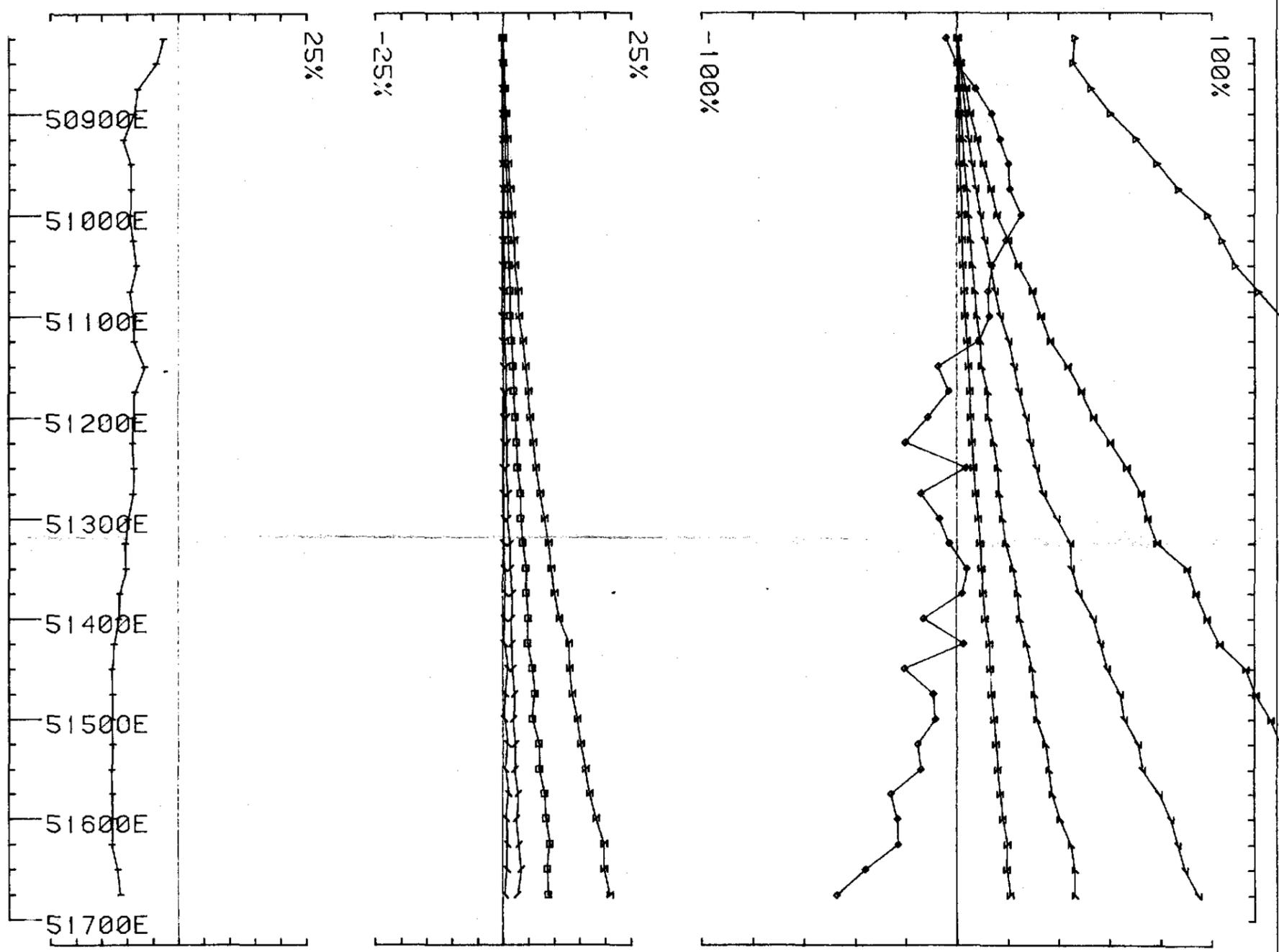


Mt. Cattley
 LOOP 0002
 LINE 21400
 Hz

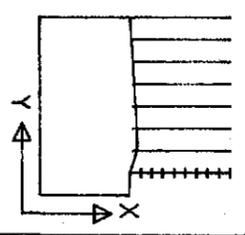
TASH 3249

934036

036



LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM
 Line 21600N Hz COMPONENT BASE FREQ :- 26.255HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

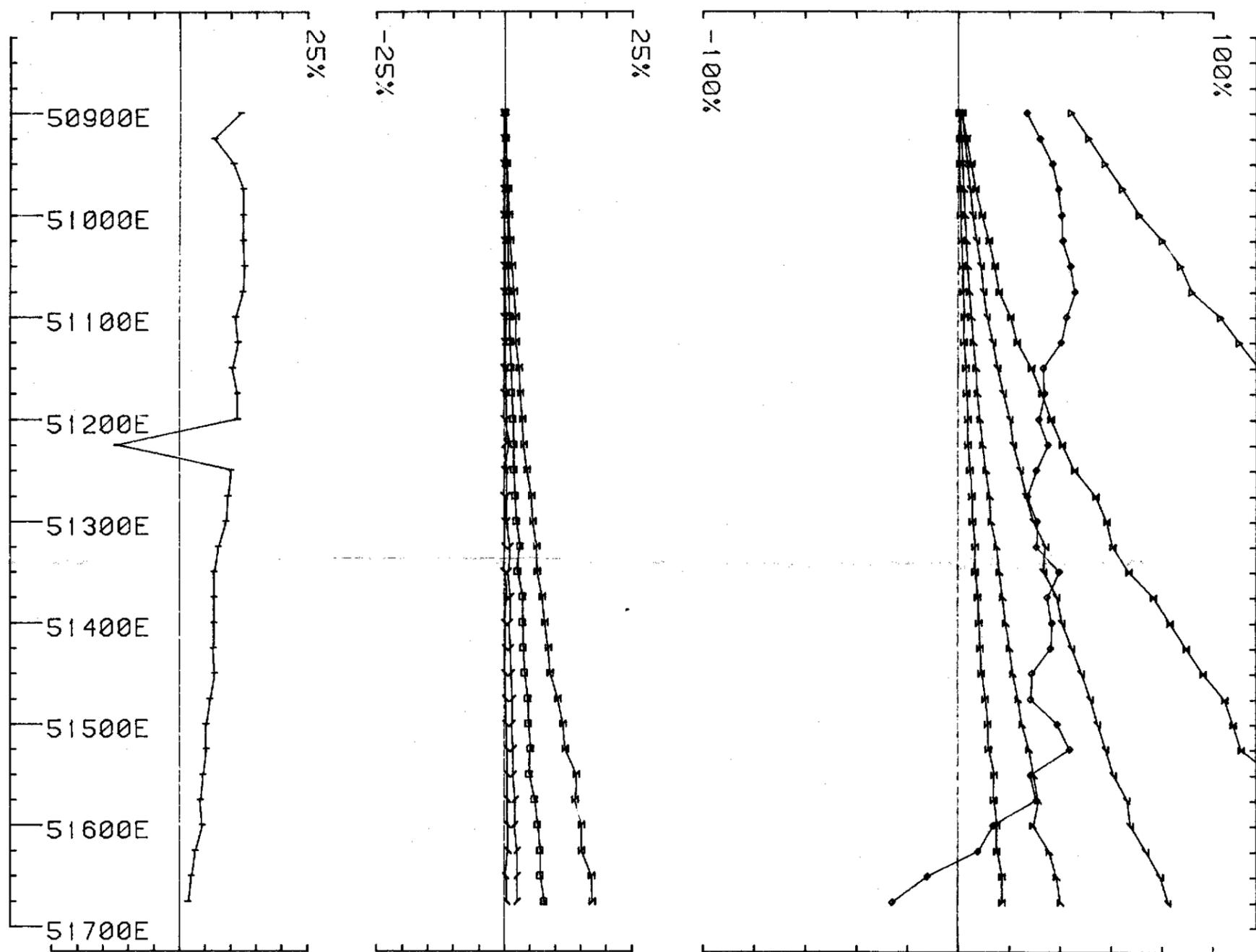


Mt. Cattley
 LOOP 0003
 LINE 21600
 Hz

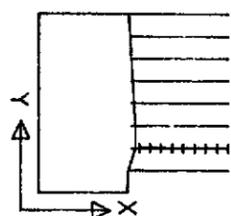
TASH 3256

934037

037



LAMONTAGNE GEOPHYSICS UTEM SURVEY Job 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM
 Line 21800N Hz COMPONENT BASE FREQ :- 26.255HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

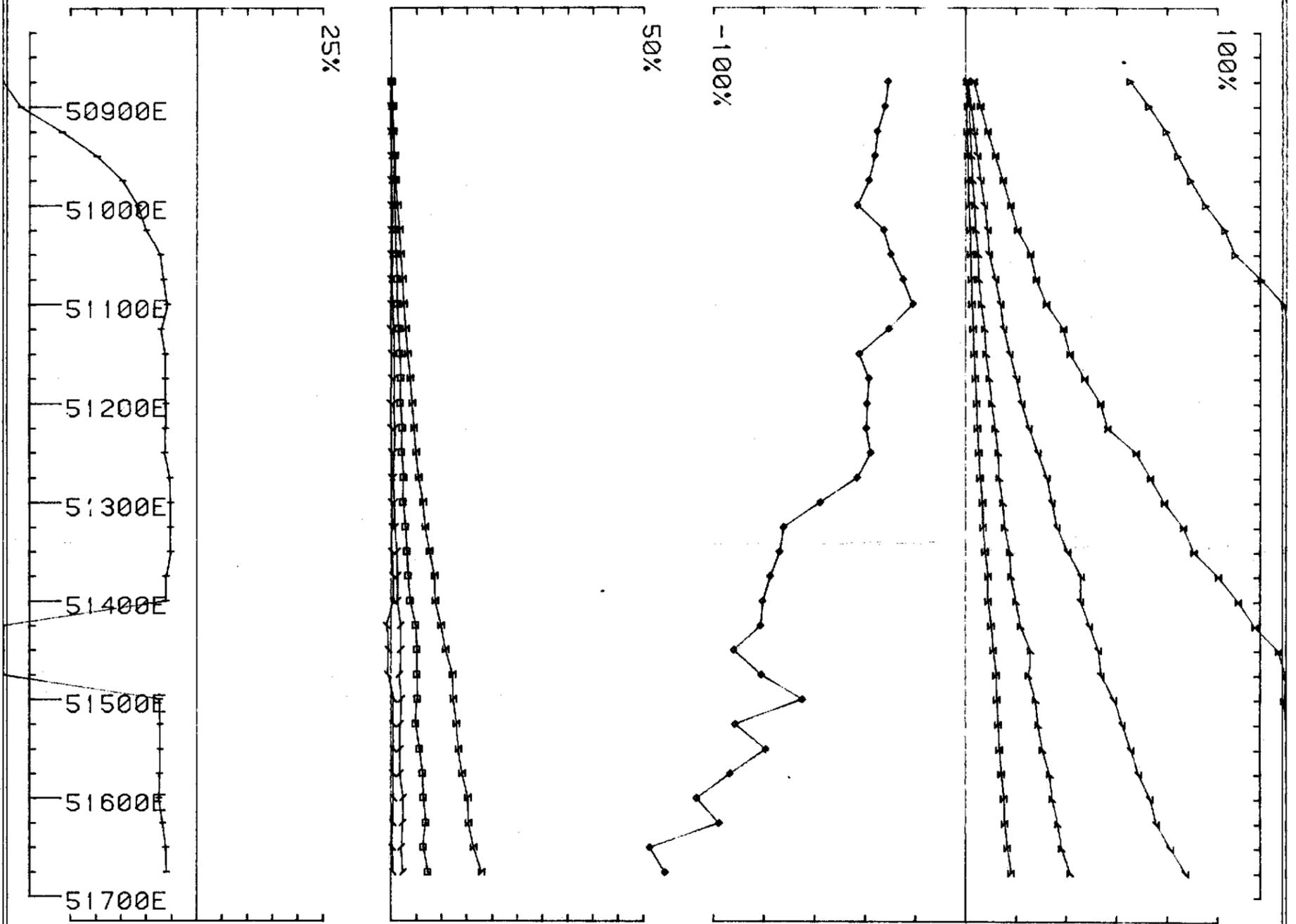


Mt. Cattley
 LOOP 0003
 LINE 21800
 Hz

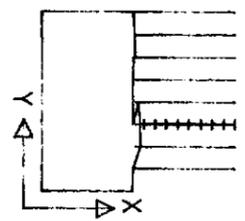
TASh 3257

934038

038

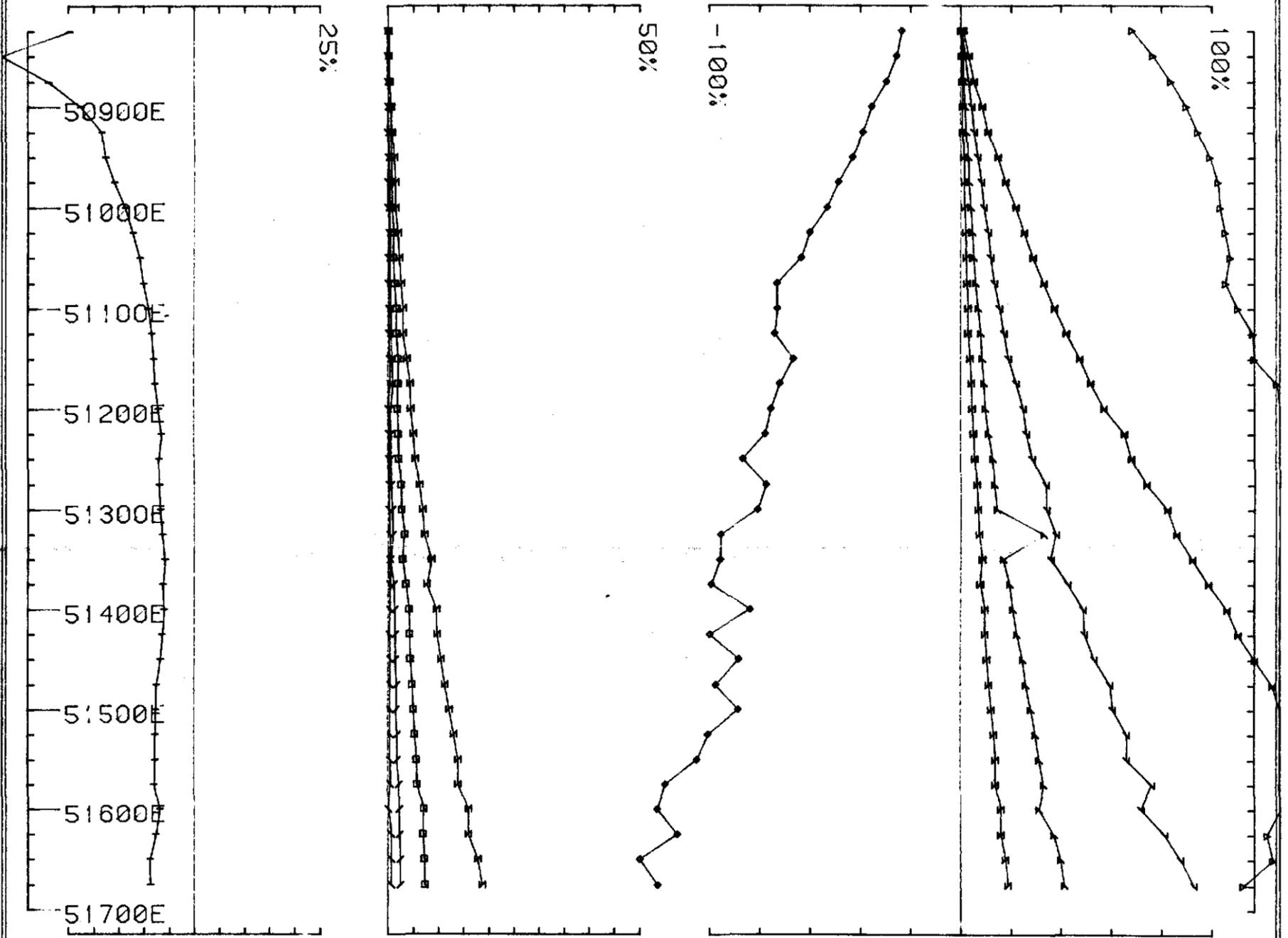


LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM
 Line 2200N Hz COMPONENT BASE FREQ :- 26.255HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

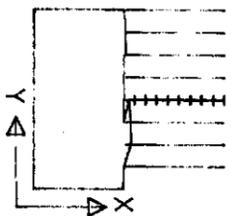


Mt. Cattley
 LOOP 0003
 LINE 22000
 Hz

039

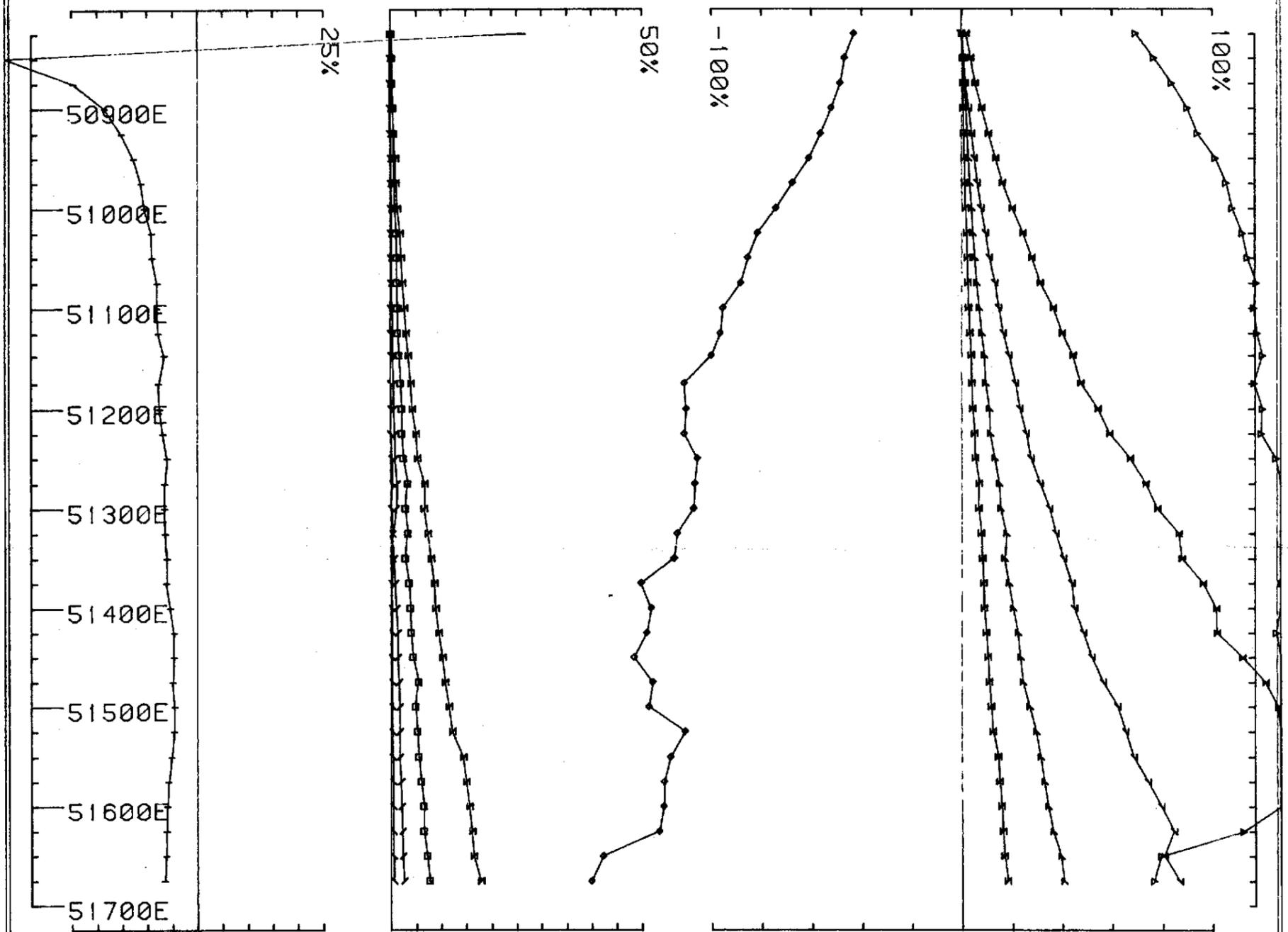


LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM
 Line 22200N Hz COMPONENT BASE FREQ :- 26.255HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

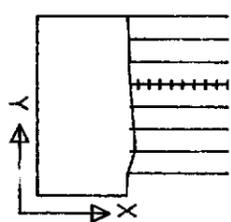


Mt. Cattley
 LOOP 0003
 LINE 22200
 Hz

040

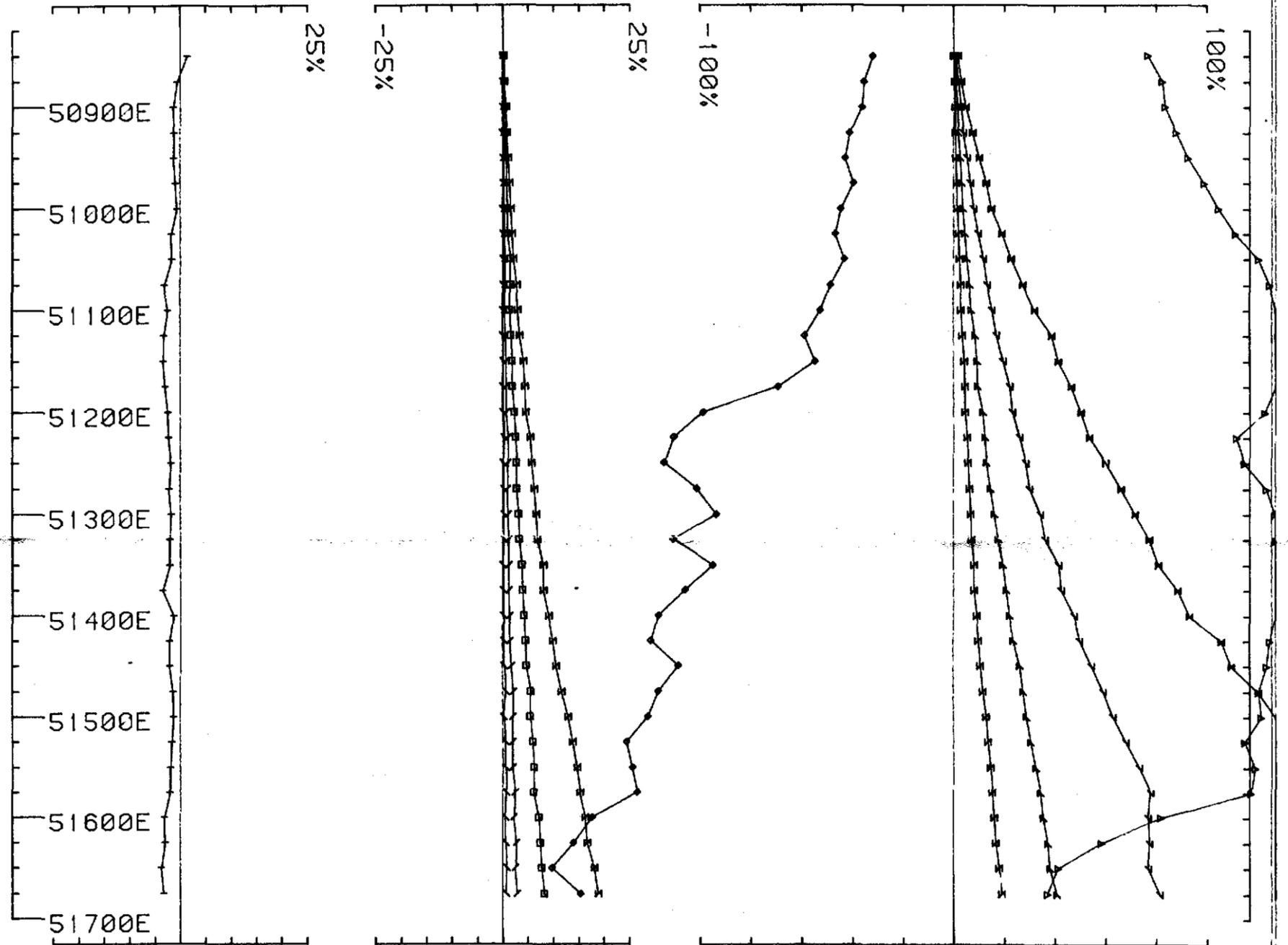


LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM
 Line 22400N Hz COMPONENT BASE FREQ :- 26.255HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

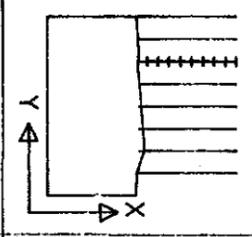


Mt. Cattley
 LOOP 0003
 LINE 22400
 Hz

041

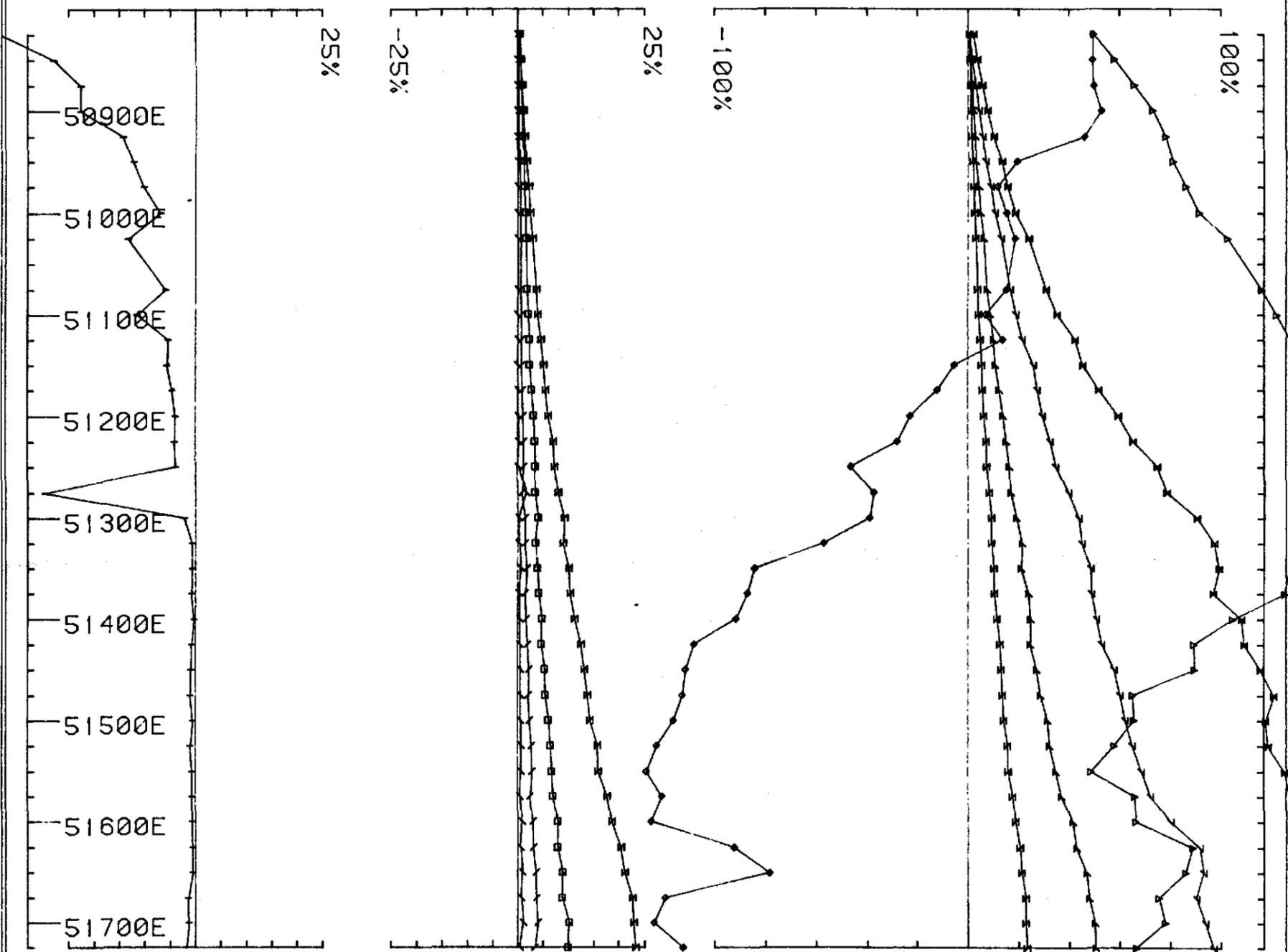


LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM
 Line 22600N Hz COMPONENT BASE FREQ :- 26.255HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

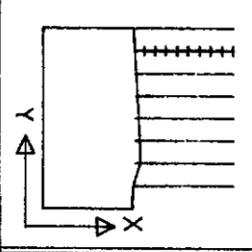


Mt. Cattley
 LOOP 0003
 LINE 22600
 Hz

042

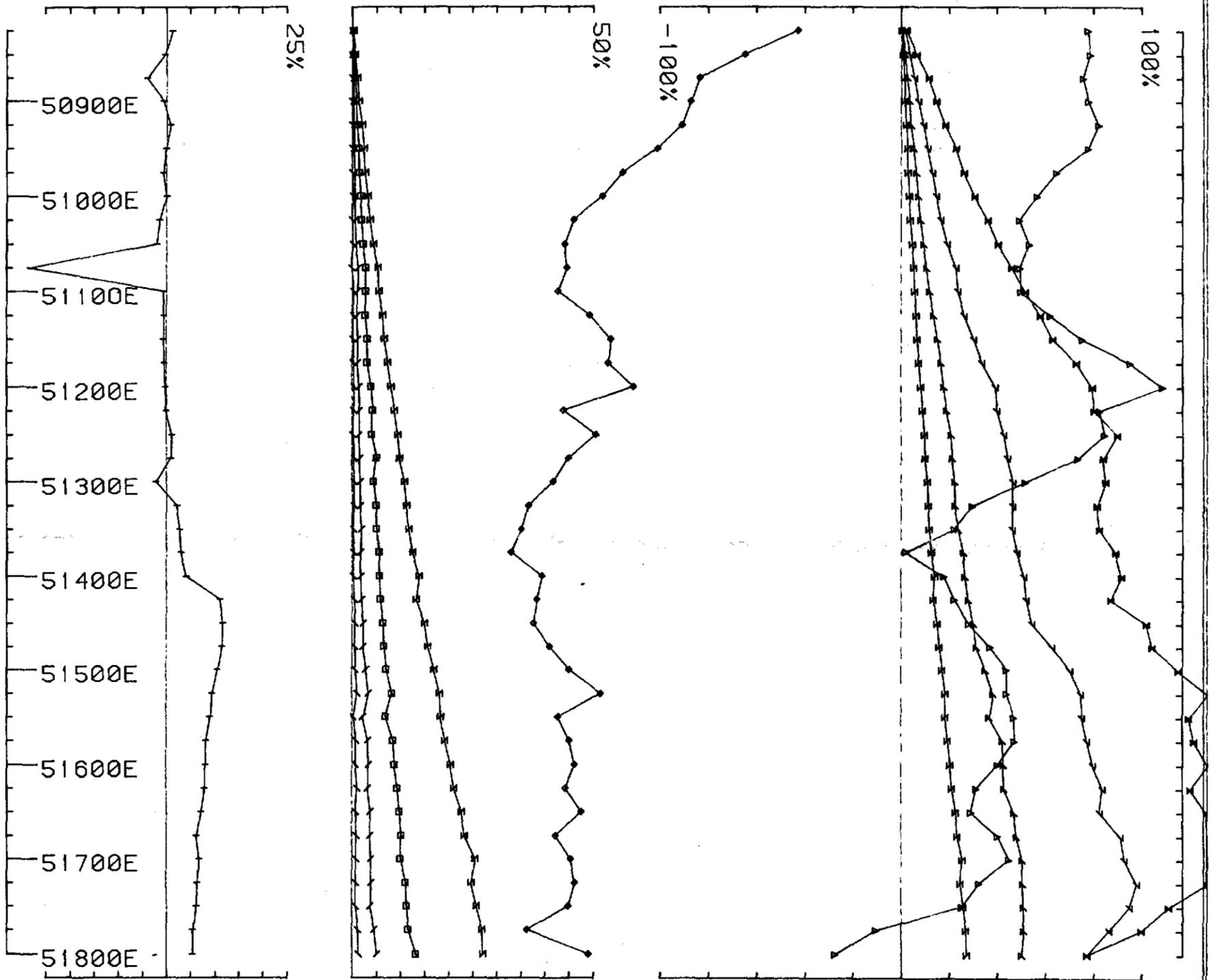


LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- RH
 Line 22800N Hz COMPONENT BASE FREQ :- 26.255HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

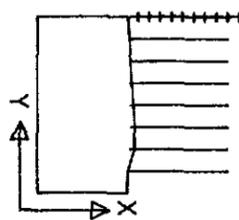


Mt. Cattley
 LOOP 0003
 LINE 22800
 Hz

043



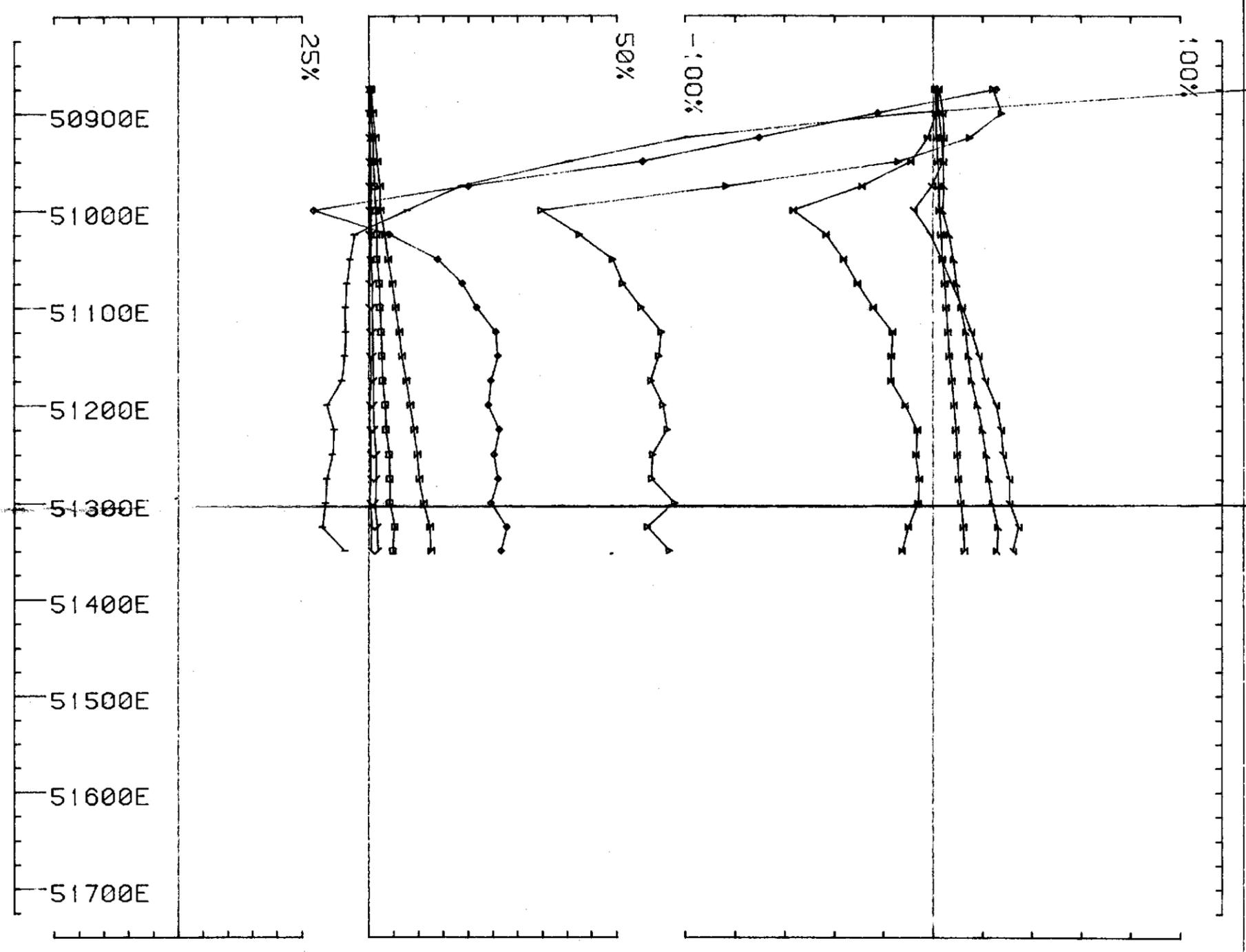
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- RH
 Line 23000N Hz COMPONENT BASE FREQ :- 26.255HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



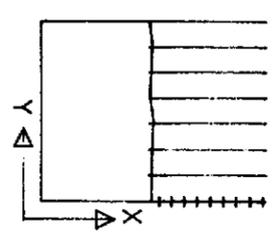
Mt. Cattley
 LOOP 0003
 LINE 23000
 Hz

934044

044

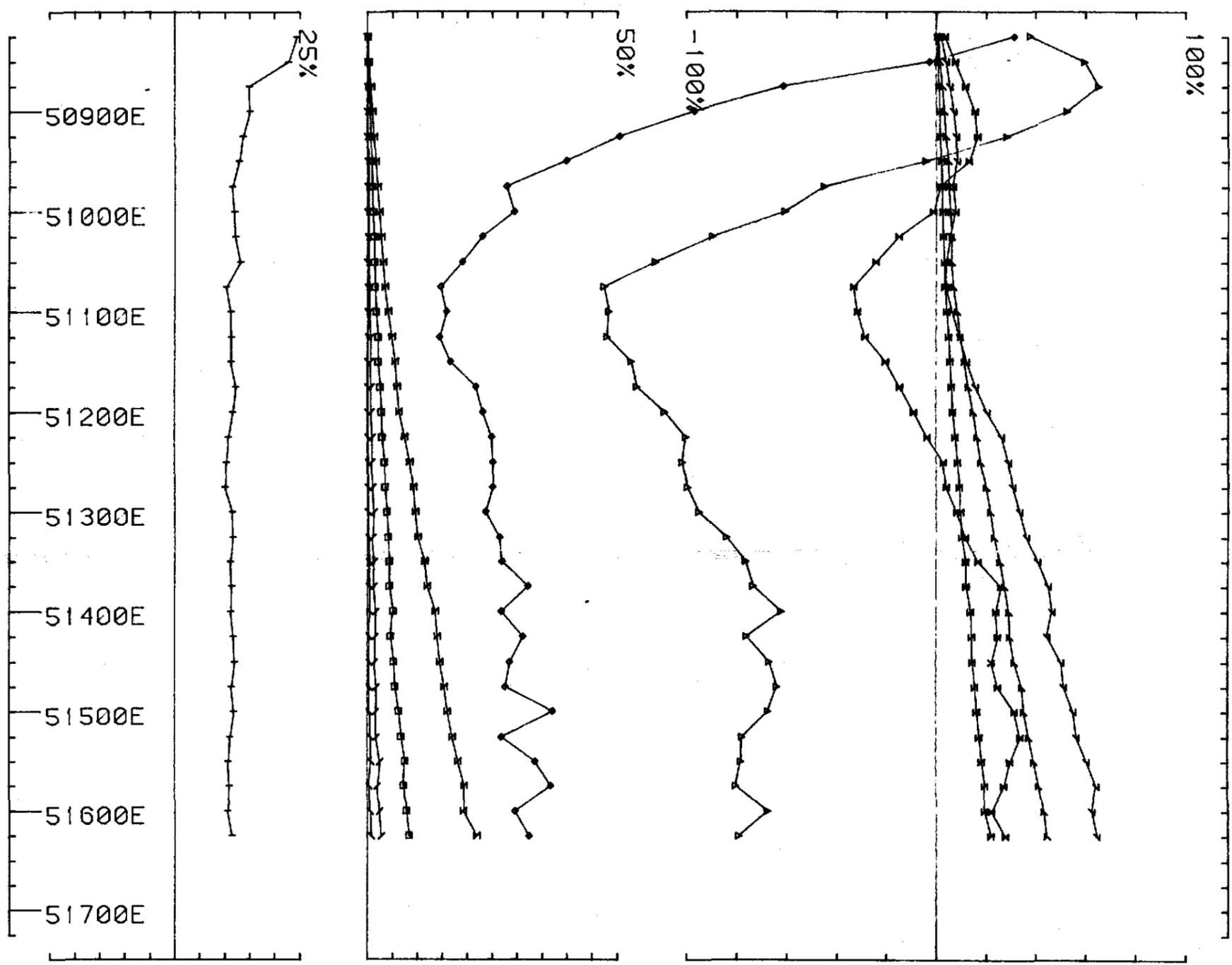


LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- RH
 Line 20000N Hz COMPONENT BASE FREQ :- 26.255HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

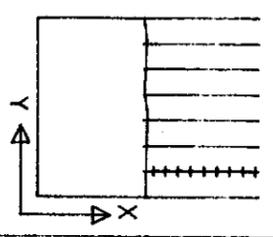


Mt. Cattley
 LOOP 0004
 LINE 20000
 Hz

045

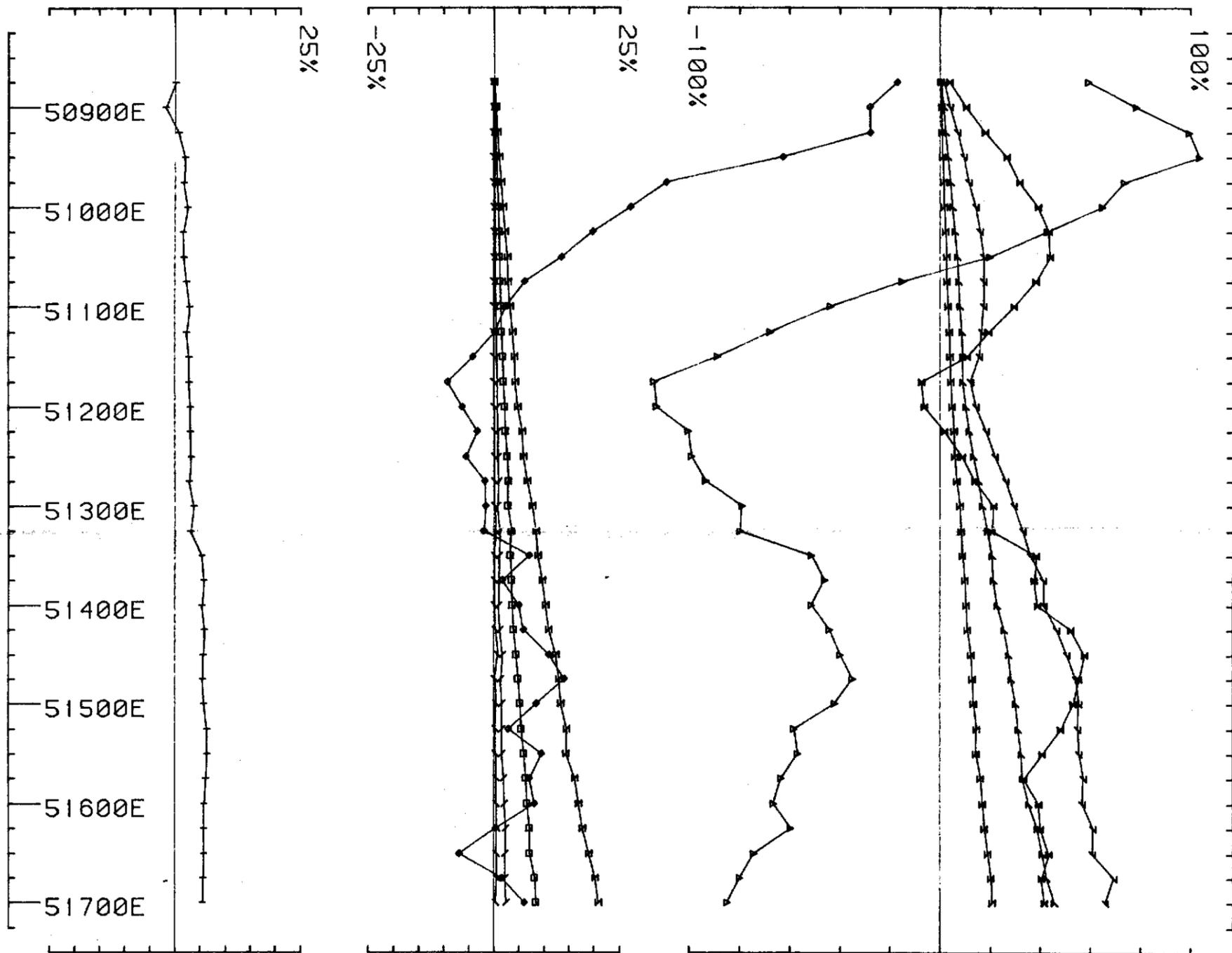


LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- RH
 Line 20200N Hz COMPONENT BASE FREQ :- 26.255HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

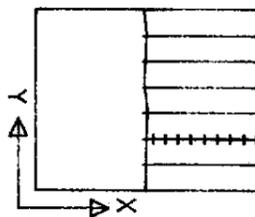


Mt. Cattley
 LOOP 0004
 LINE 20200
 Hz

046



LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- RH
 Line 20400N Hz COMPONENT BASE FREQ :- 26.255HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

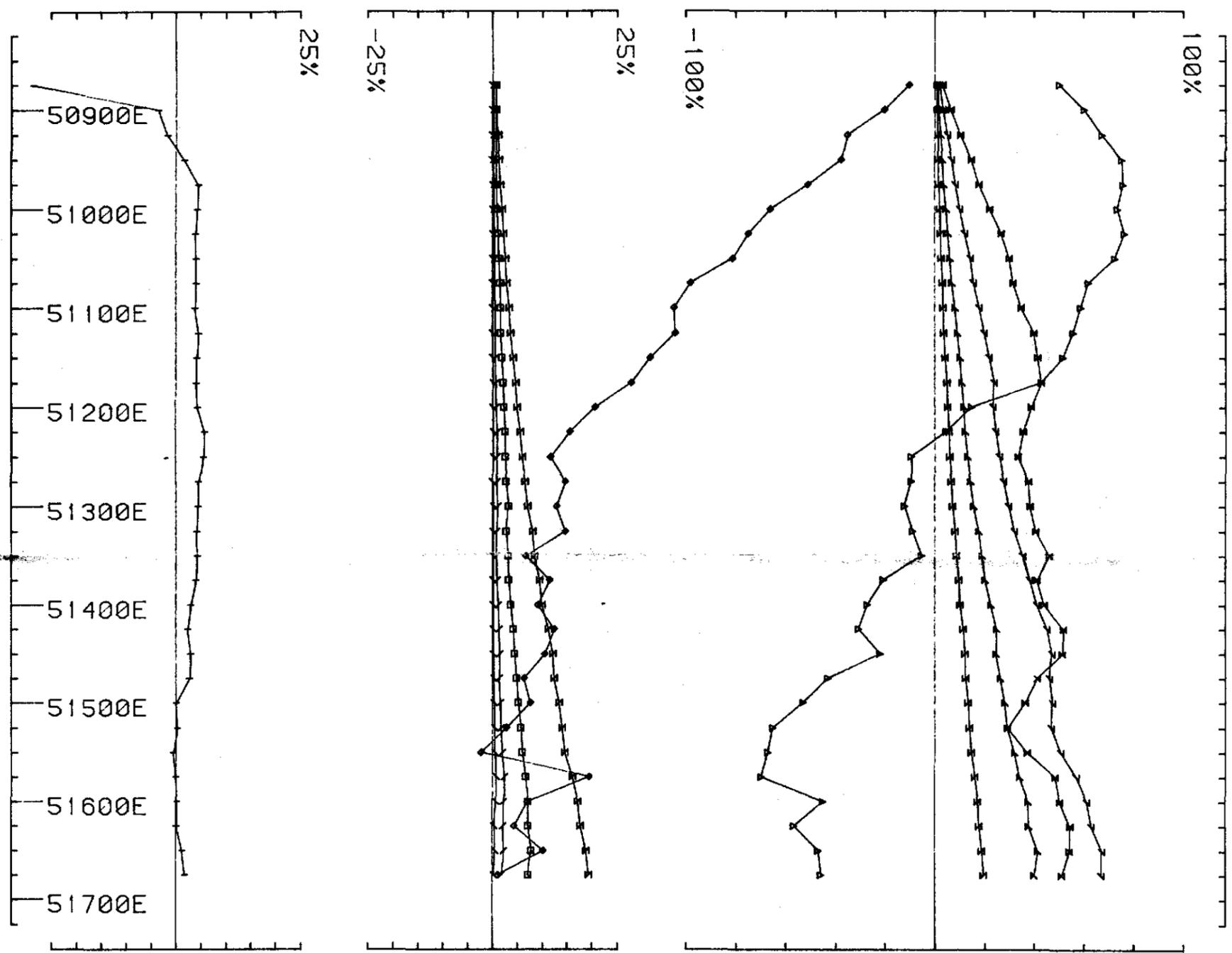


Mt. Cattley
 LOOP 0004
 LINE 20400
 Hz

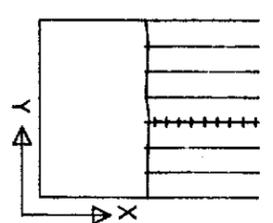
TASH 3266

934047

047

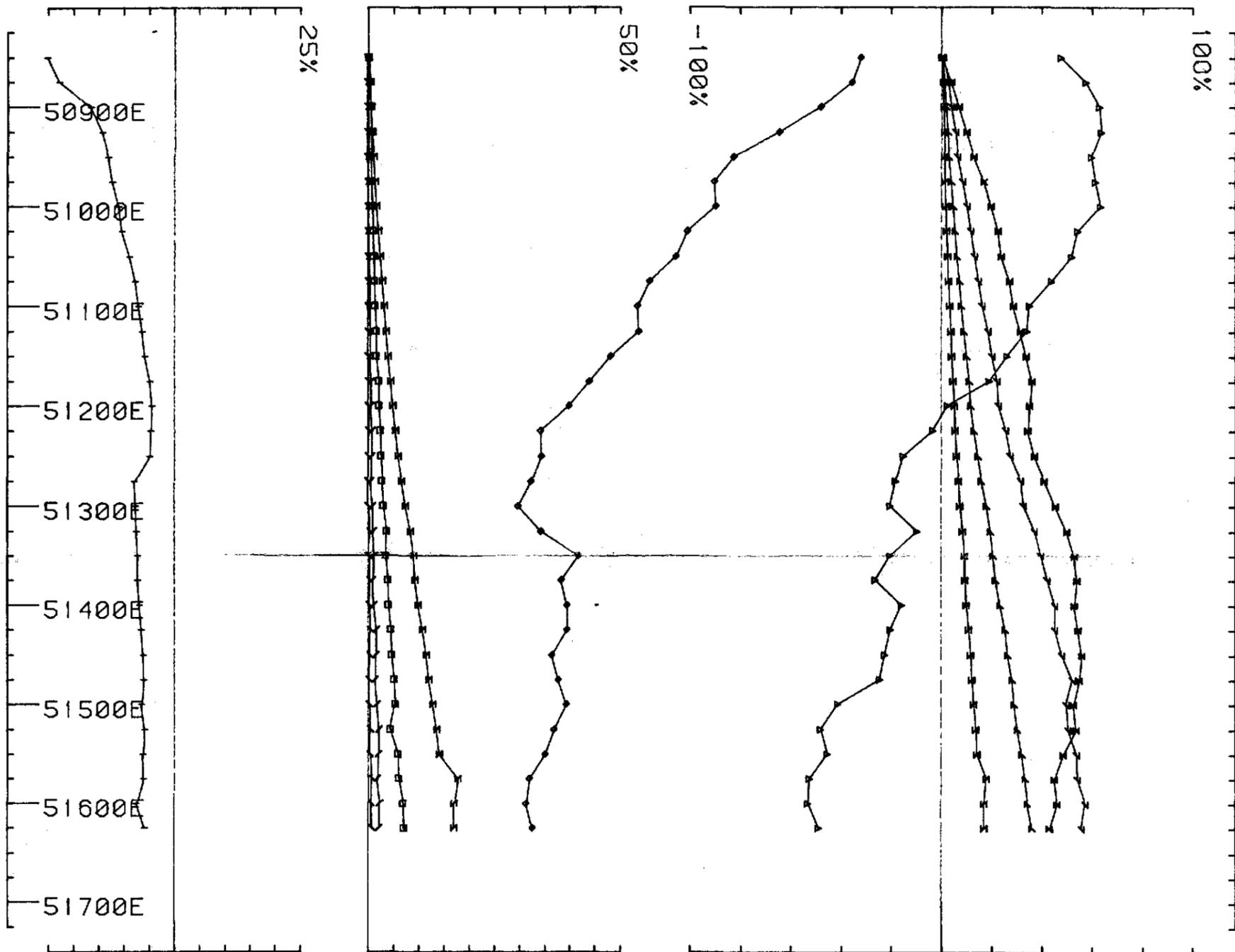


LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- RH
 Line 20600N Hz COMPONENT BASE FREQ :- 26.255HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



Mt. Cattley
 LOOP 0004
 LINE 20600
 Hz

048



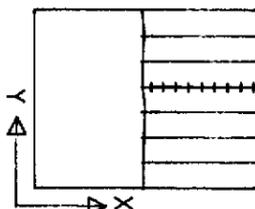
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657

AREA :- Mt. Cattley

CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM

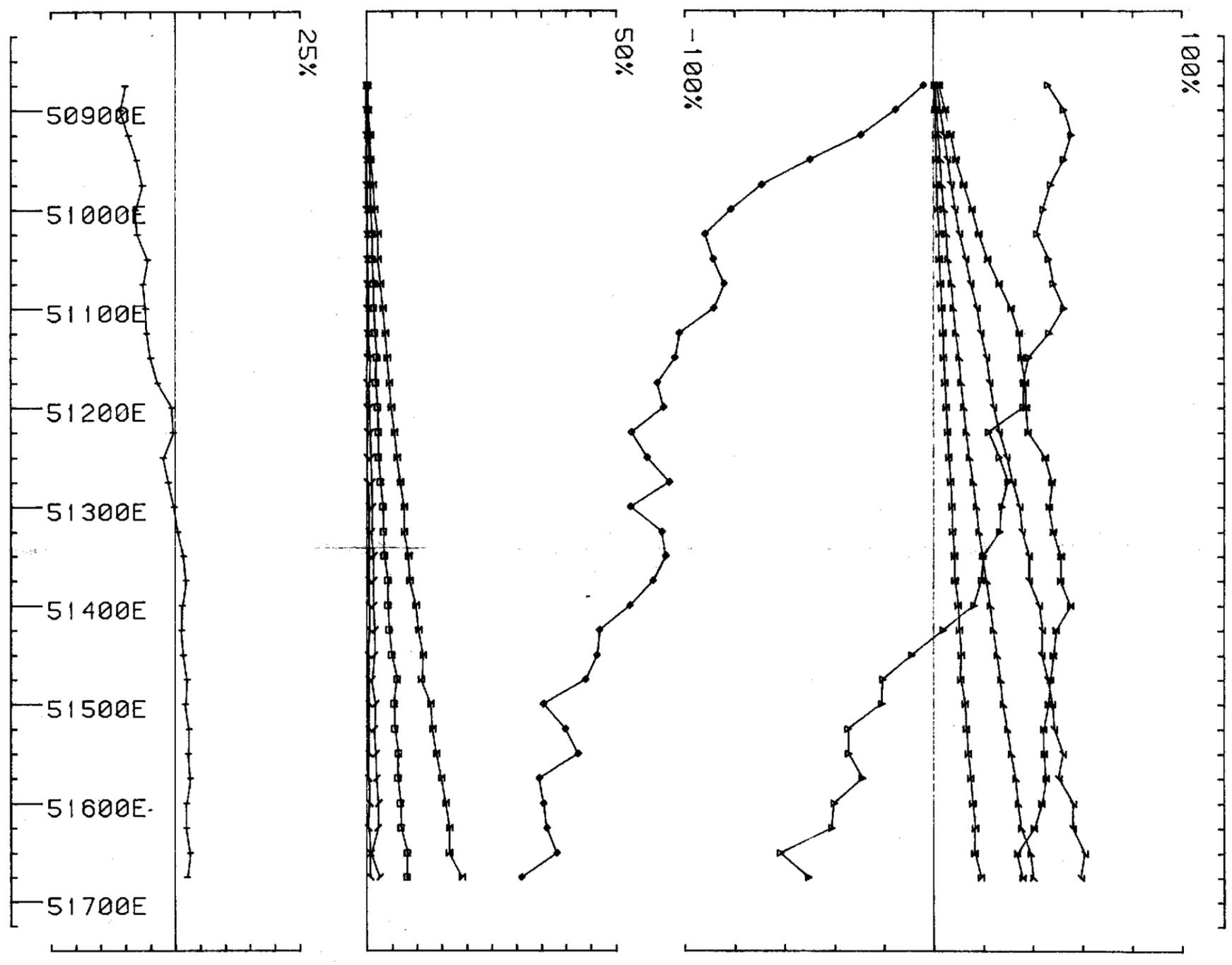
Line 20800N Hz COMPONENT BASE FREQ :- 26.255HERTZ

SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

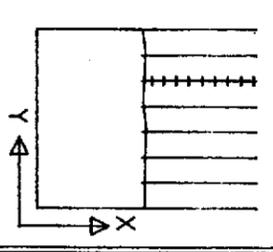


Mt. Cattley
LOOP 0004
LINE 20800
Hz

049

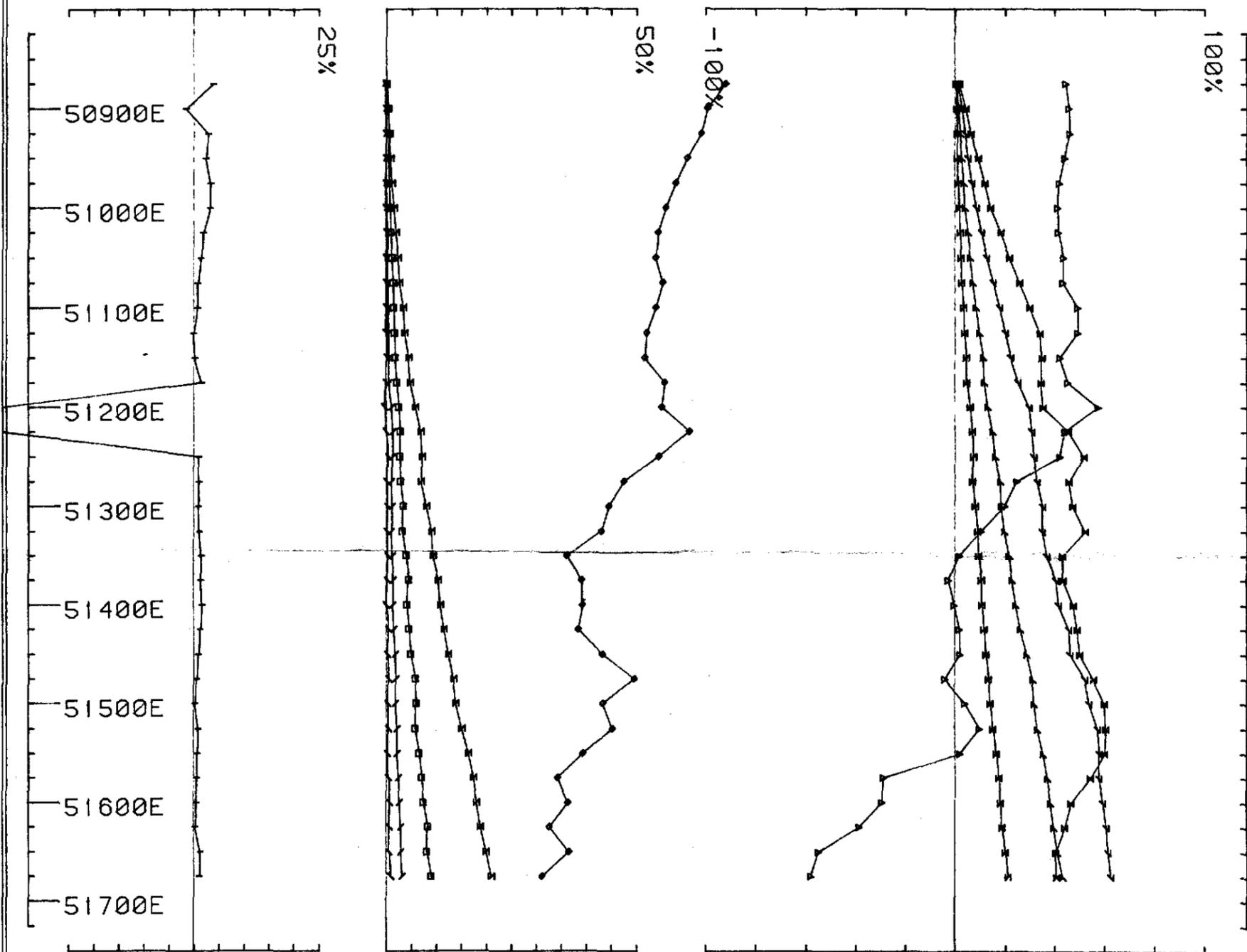


LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM
 Line 21000N Hz COMPONENT BASE FREQ :- 26.255HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

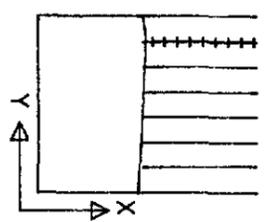


Mt. Cattley
 LOOP 0004
 LINE 21000
 Hz

050

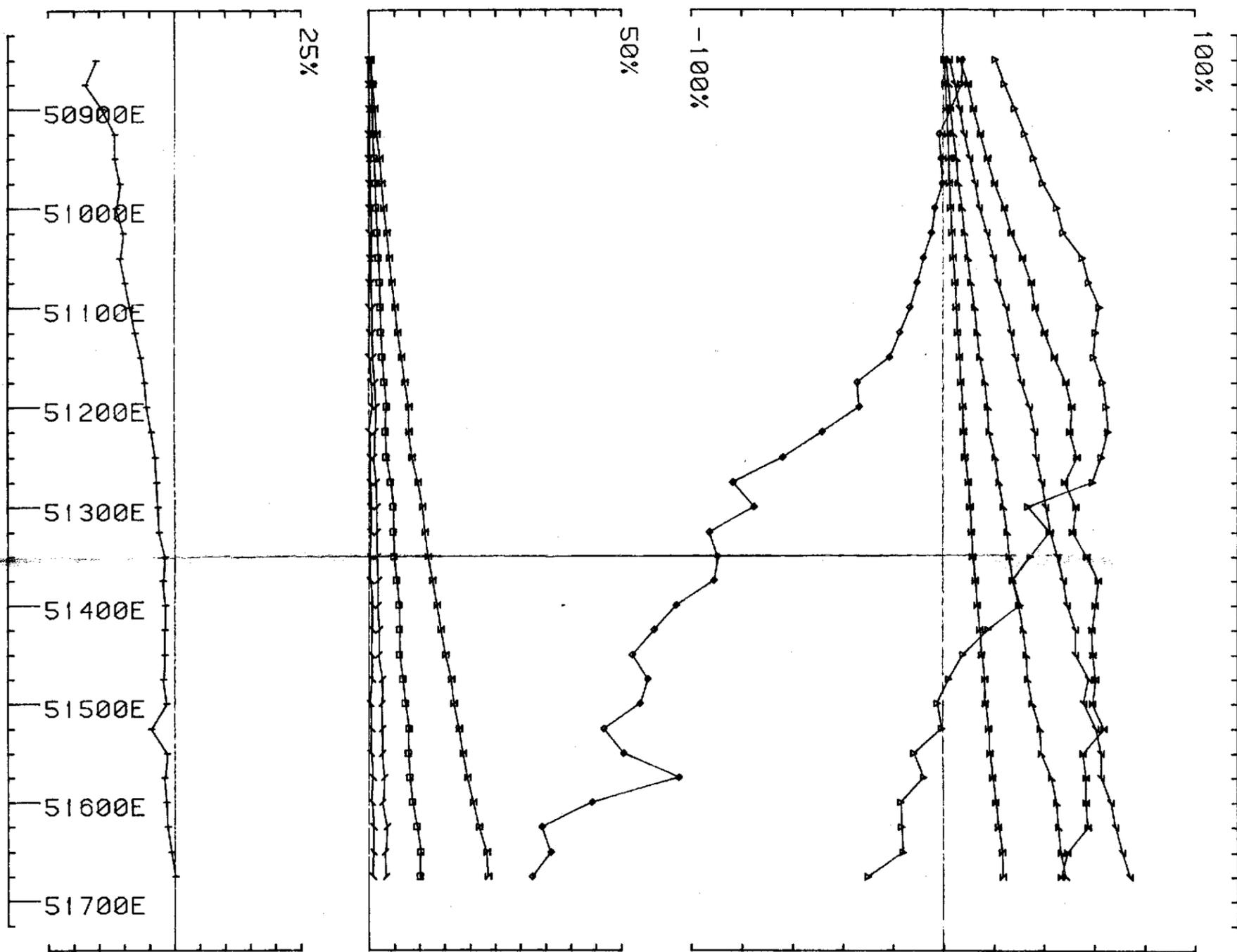


LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM
 Line 21200N Hz COMPONENT BASE FREQ :- 26.255HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

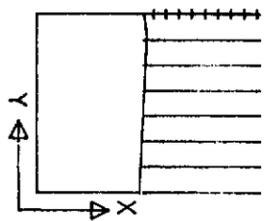


Mt. Cattley
 LOOP 0004
 LINE 21200
 Hz

051

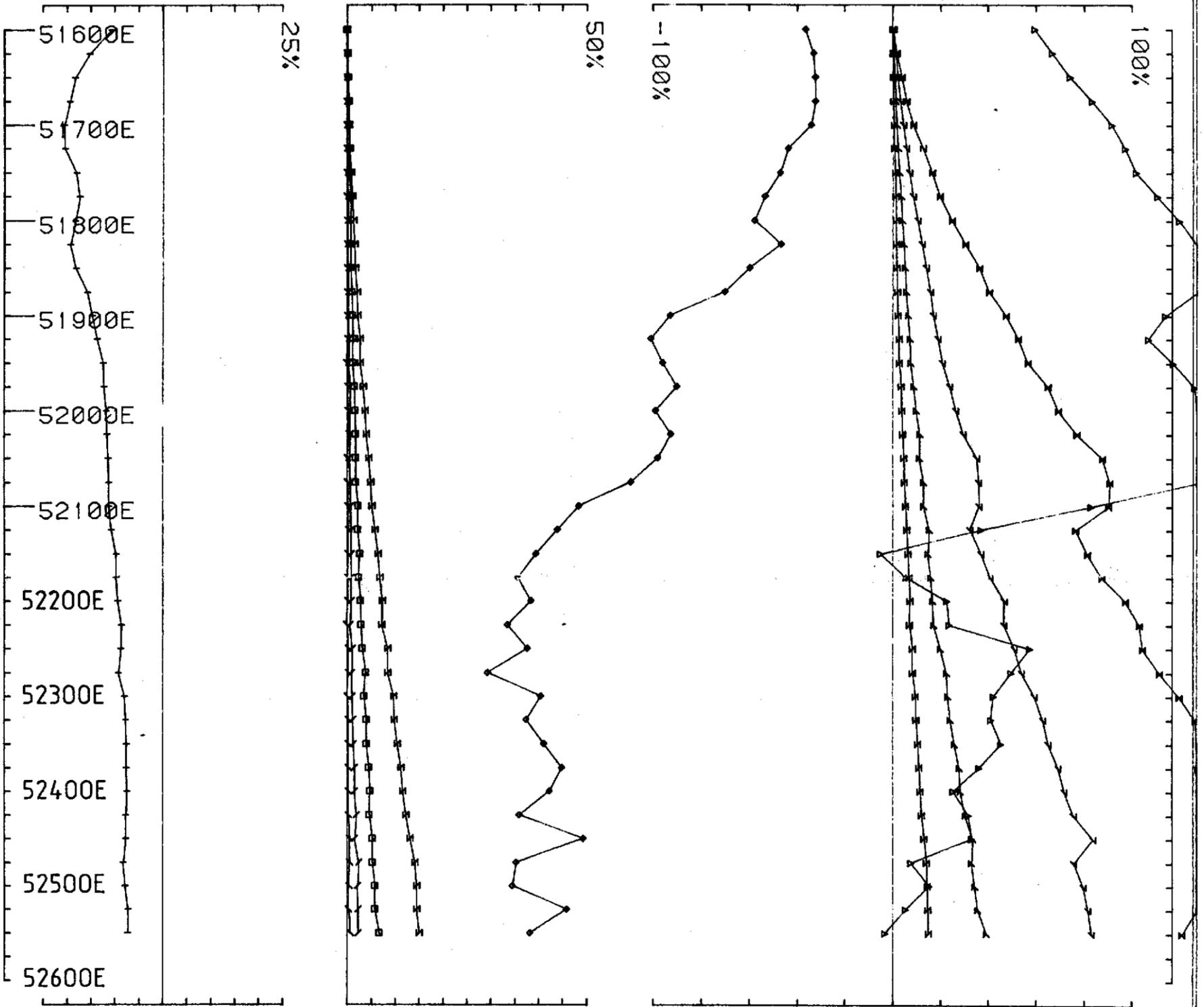


LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM
 Line 21400N Hz COMPONENT BASE FREQ :- 26.255HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

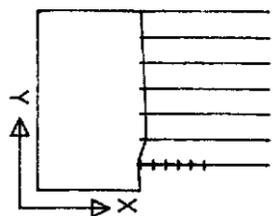


Mt. Cattley
 LOOP 0004
 LINE 21400
 Hz

052

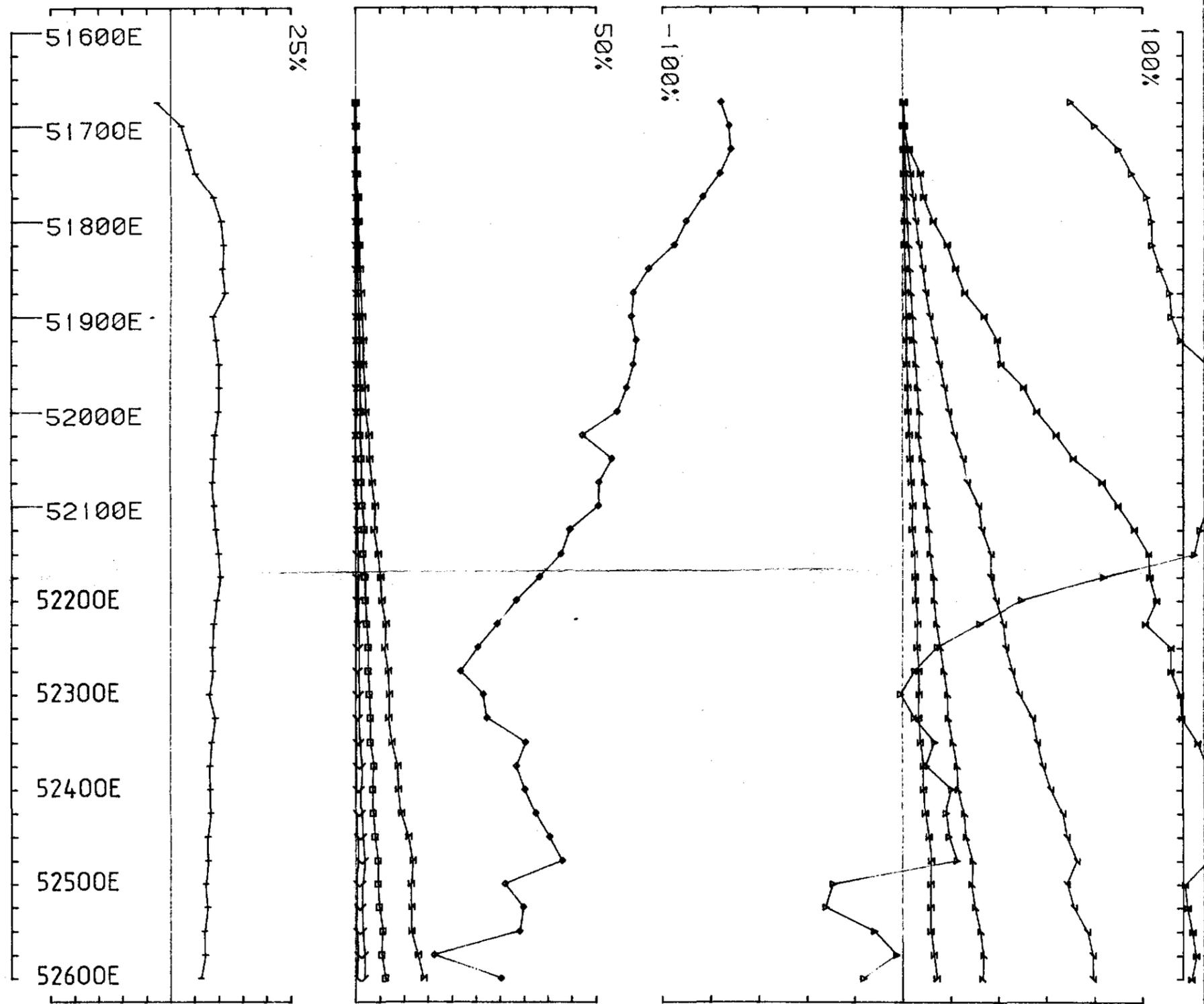


LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 21600N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

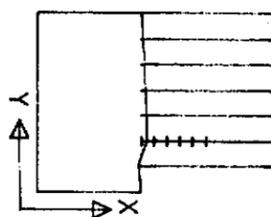


Mt. Cattley
 LOOP 0005
 LINE 21600
 Hz

053



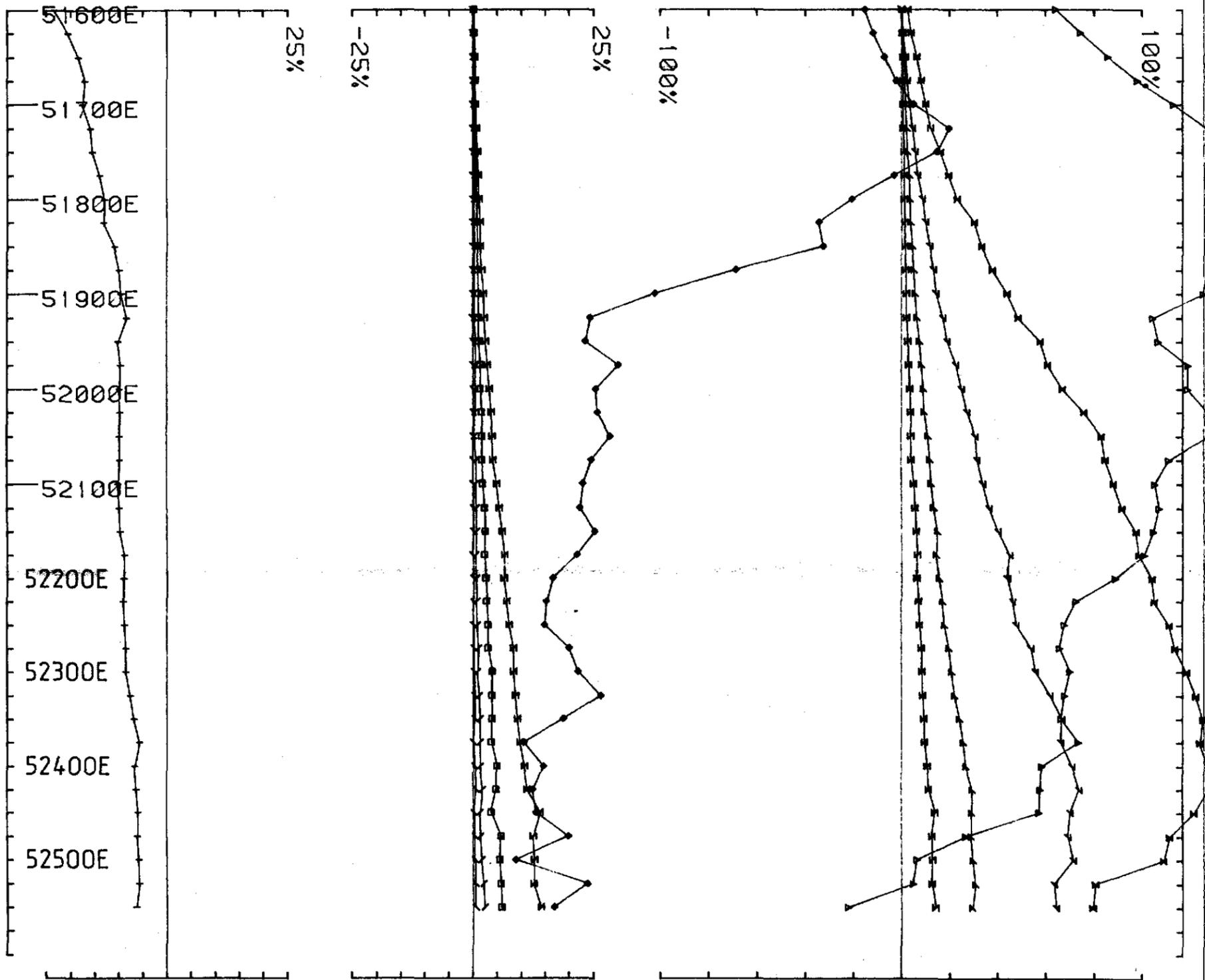
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 21800N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



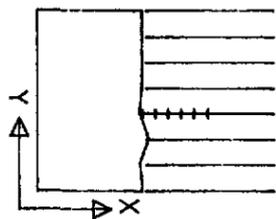
Mt. Cattley
 LOOP 0005
 LINE 21800
 Hz

934054

054



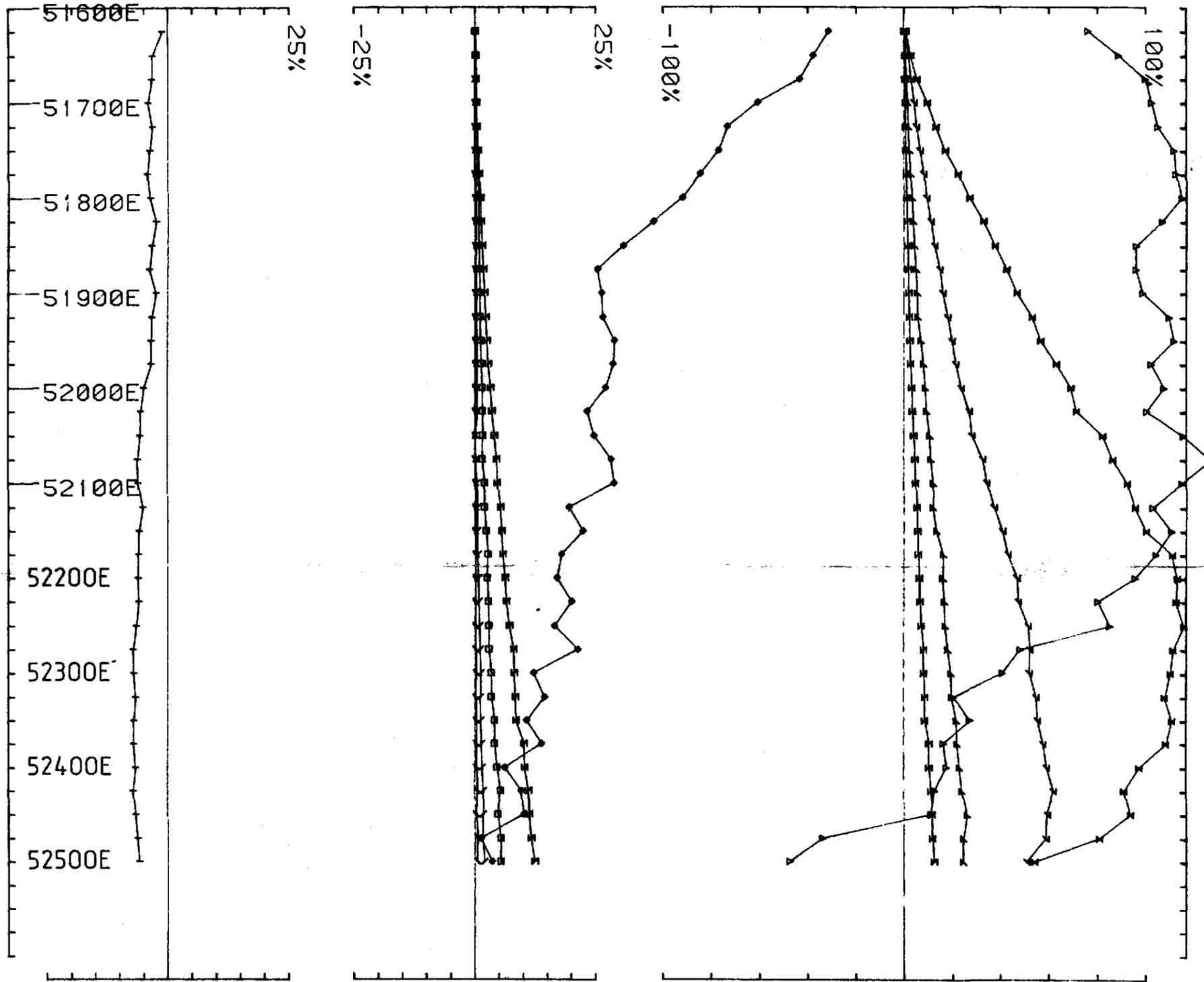
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 22000N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS CH 1 NORMALIZATION



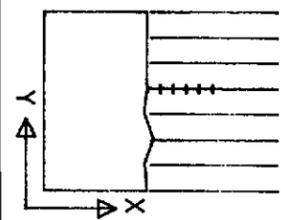
Mt. Cattley
 LOOP 0005
 LINE 22000
 Hz

934055

055



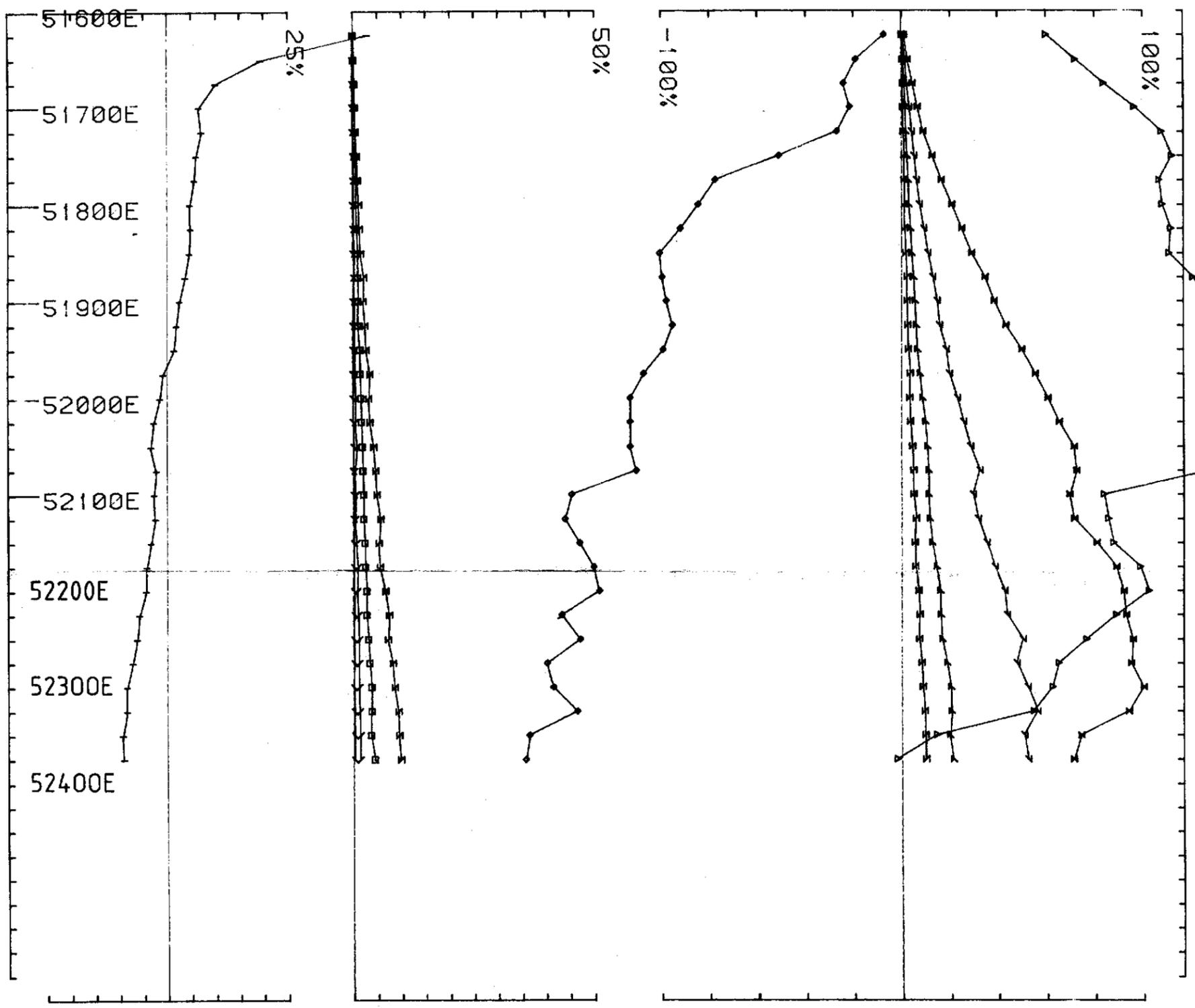
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 22200N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



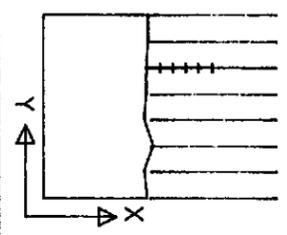
Mt. Cattley
 LOOP 0005
 LINE 22200
 Hz

934056

056



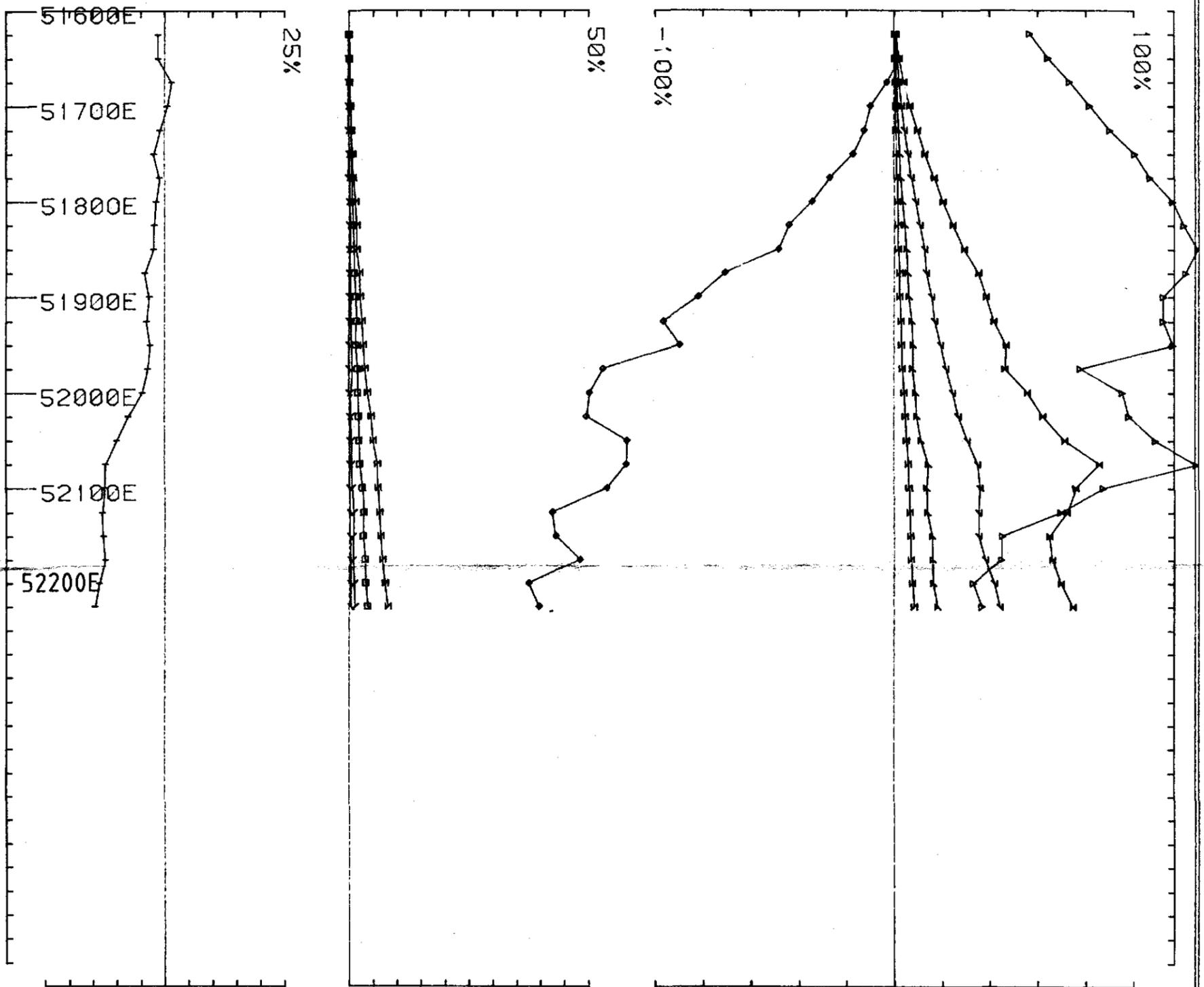
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 22400N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



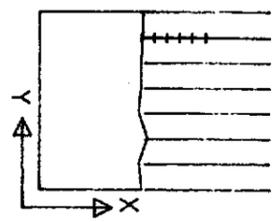
Mt. Cattley
 LOOP 0005
 LINE 22400
 Hz

934057

057



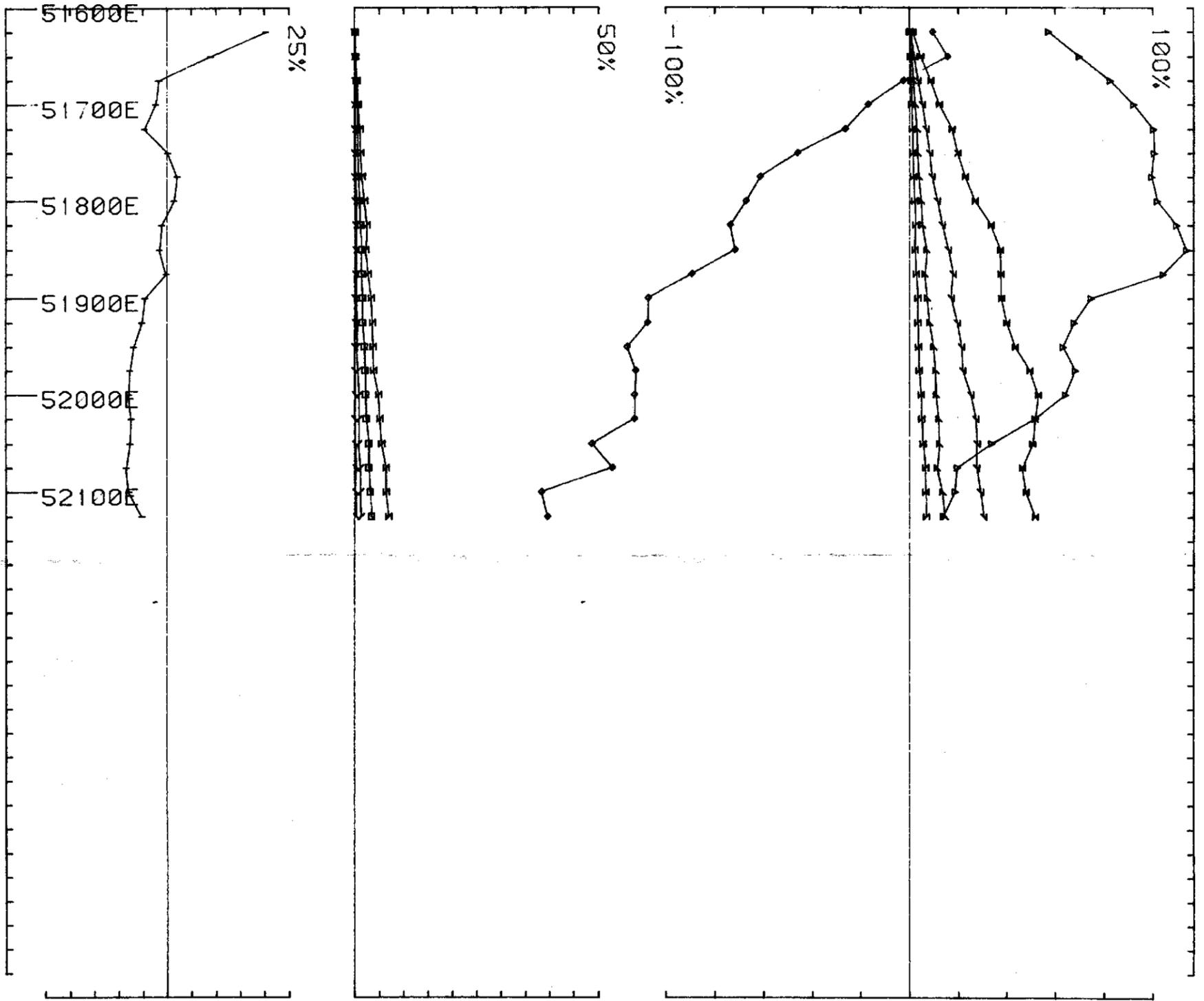
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 22600N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



Mt. Cattley
 LOOP 0005
 LINE 22600
 Hz

934058

058



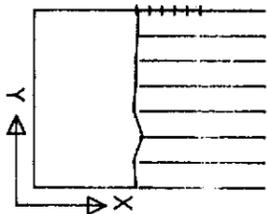
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657

AREA :- Mt. Cattley

CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH

Line 22800N Hz COMPONENT BASE FREQ :- 26.230HERTZ

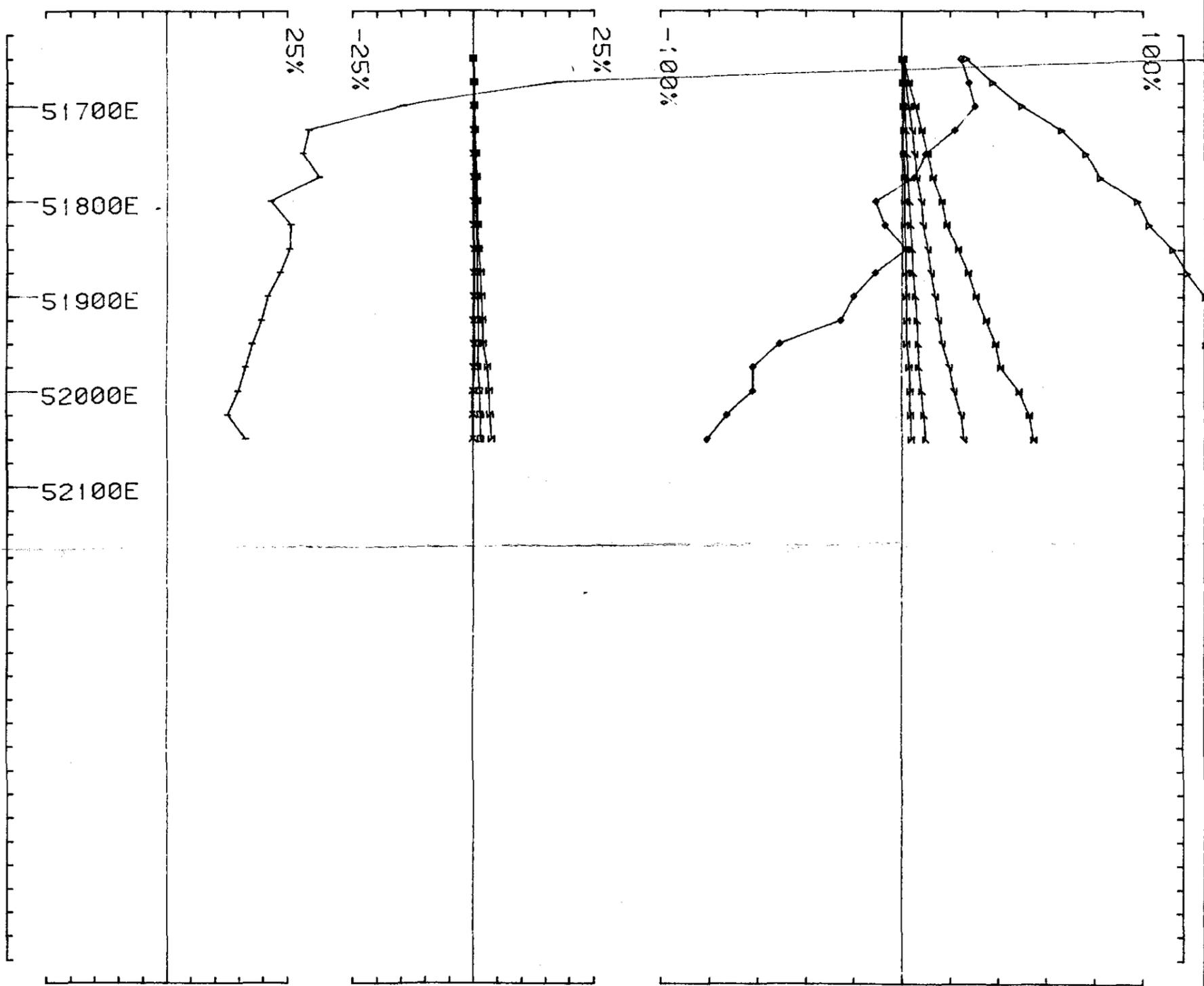
SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



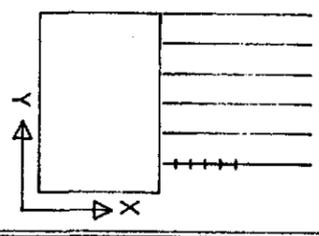
Mt. Cattley
LOOP 0005
LINE 22800
Hz

934059

059



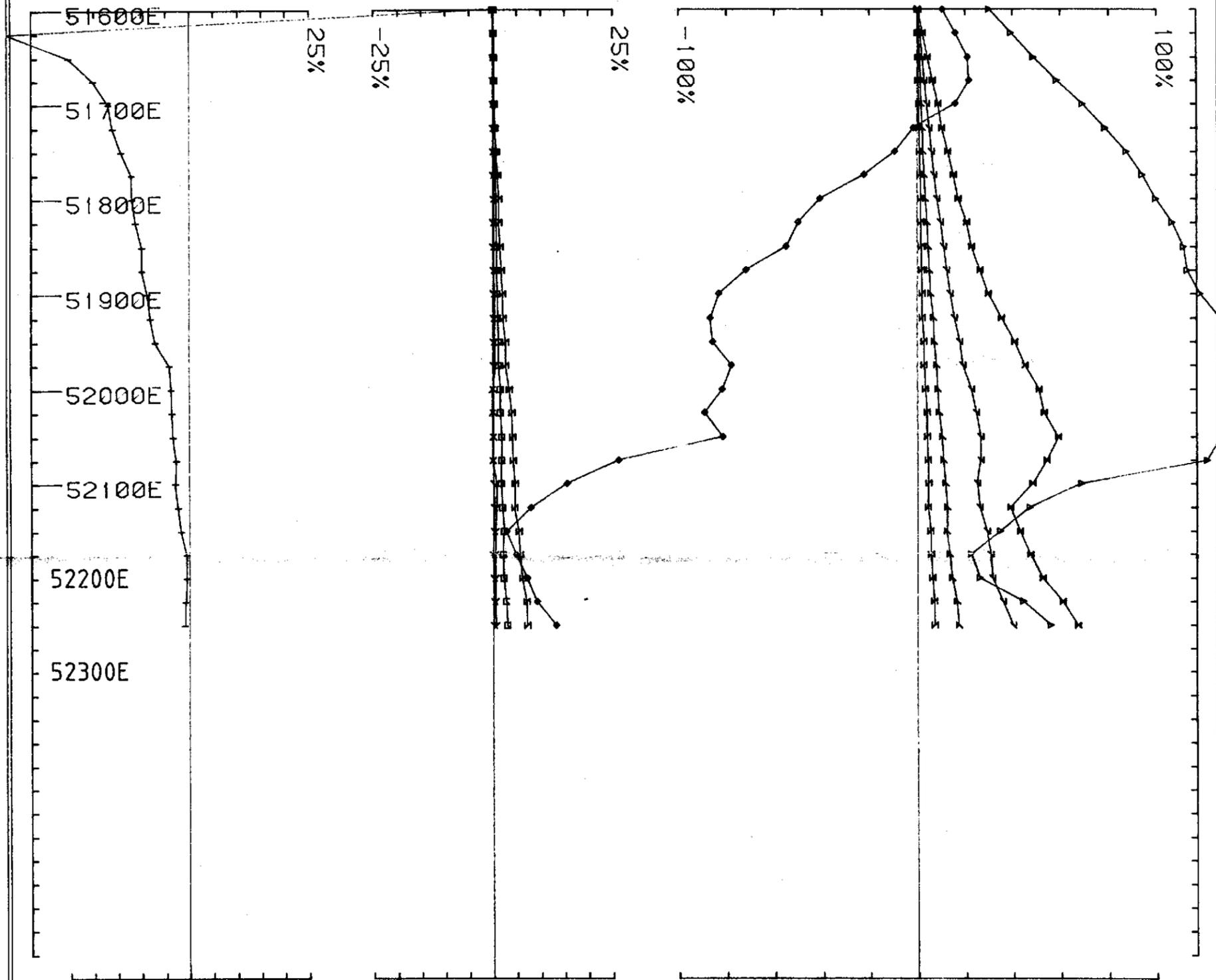
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
AREA :- Mt. Cattley
CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
Line 20400N Hz COMPONENT BASE FREQ :- 26.230HERTZ
SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



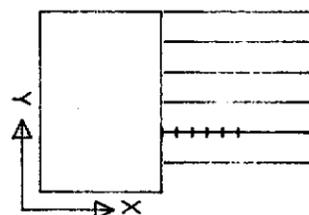
Mt. Cattley
LOOP 0006
LINE 20400
Hz

934060

060

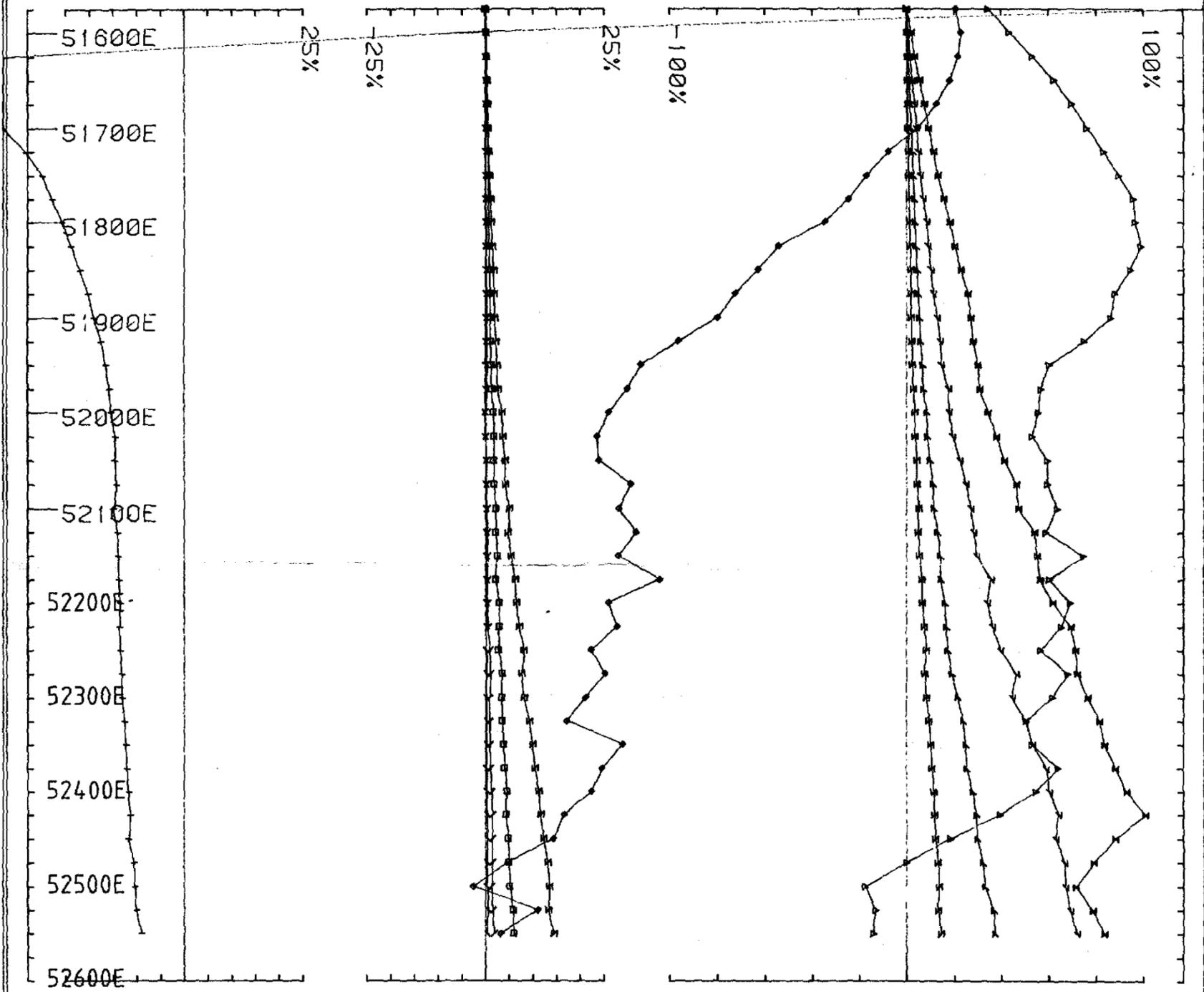


LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 20600N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

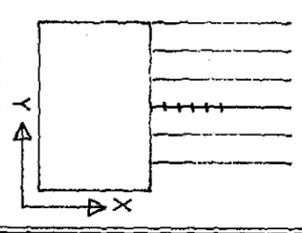


Mt. Cattley
 LOOP 0006
 LINE 20600
 Hz

061



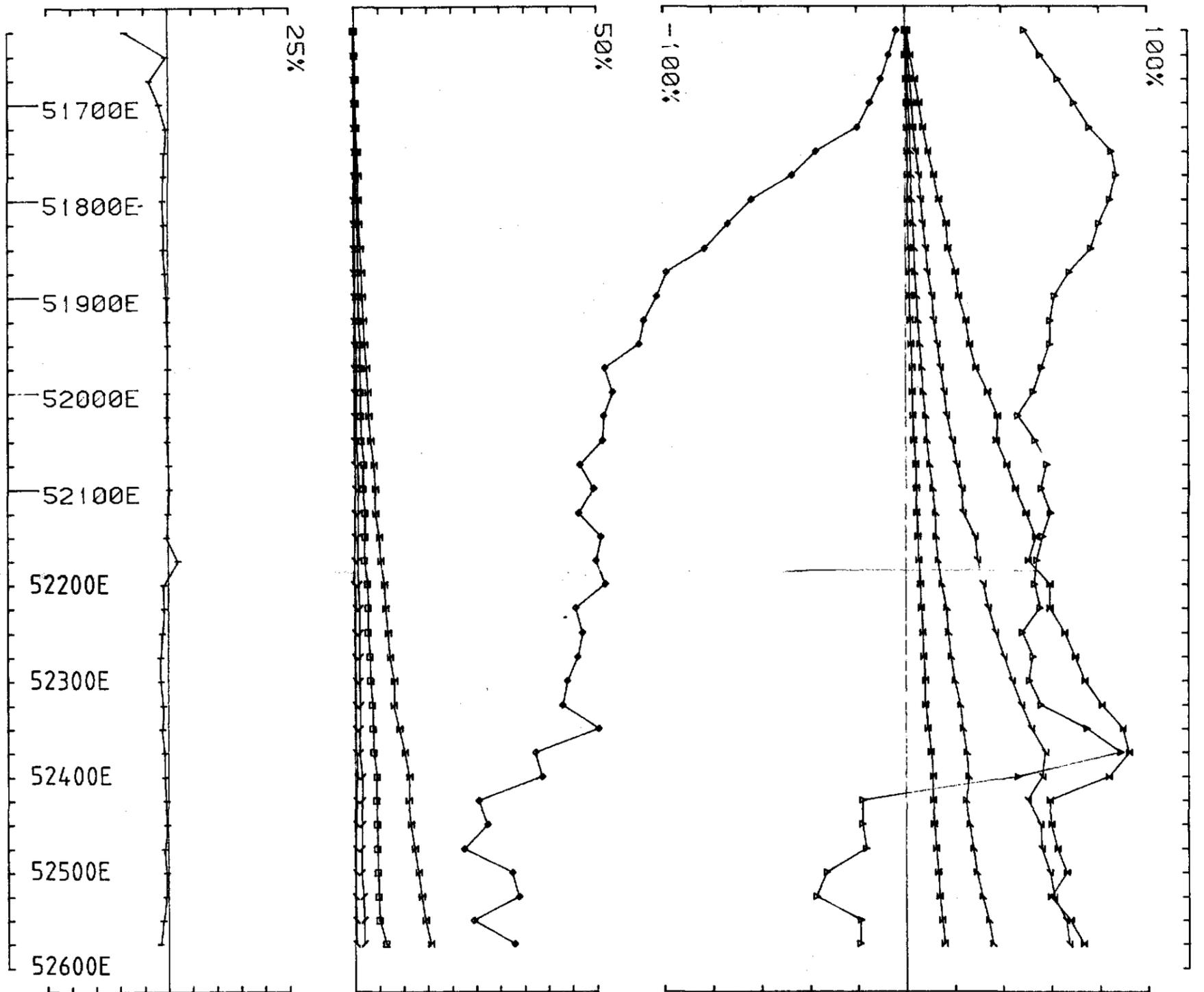
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
AREA :- Mt. Cattley
CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
Line 20800N Hz COMPONENT BASE FREQ :- 26.230HERTZ
SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



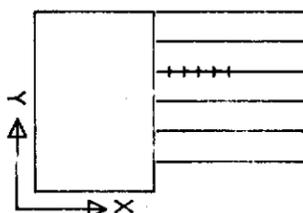
Mt. Cattley
LOOP 0006
LINE 20800
Hz

934062

062



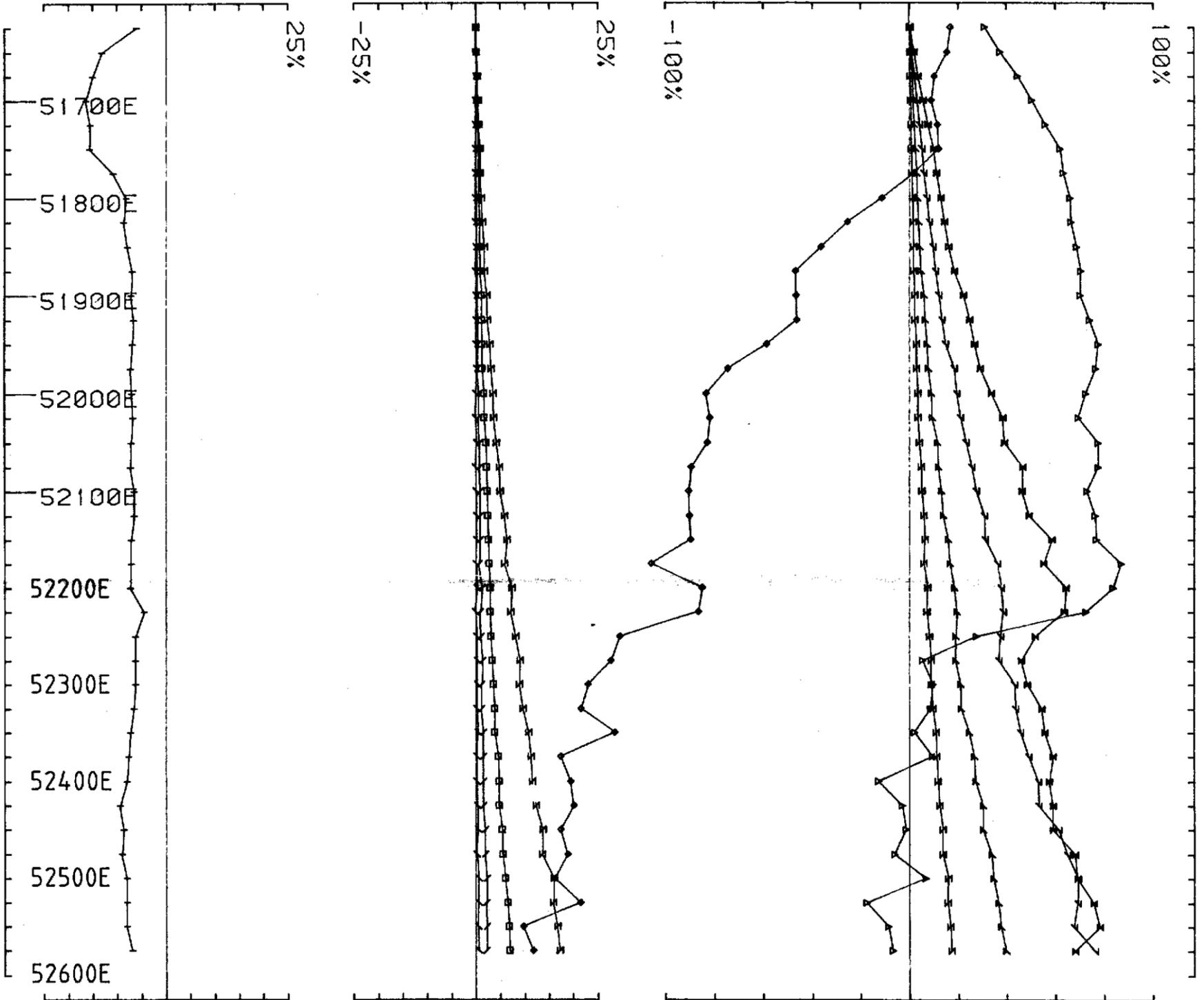
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 21000N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



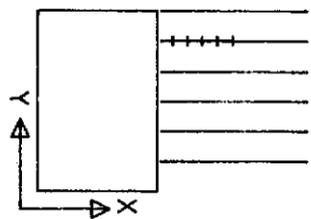
Mt. Cattley
 LOOP 0006
 LINE 21000
 Hz

934063

063



LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 21200N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION

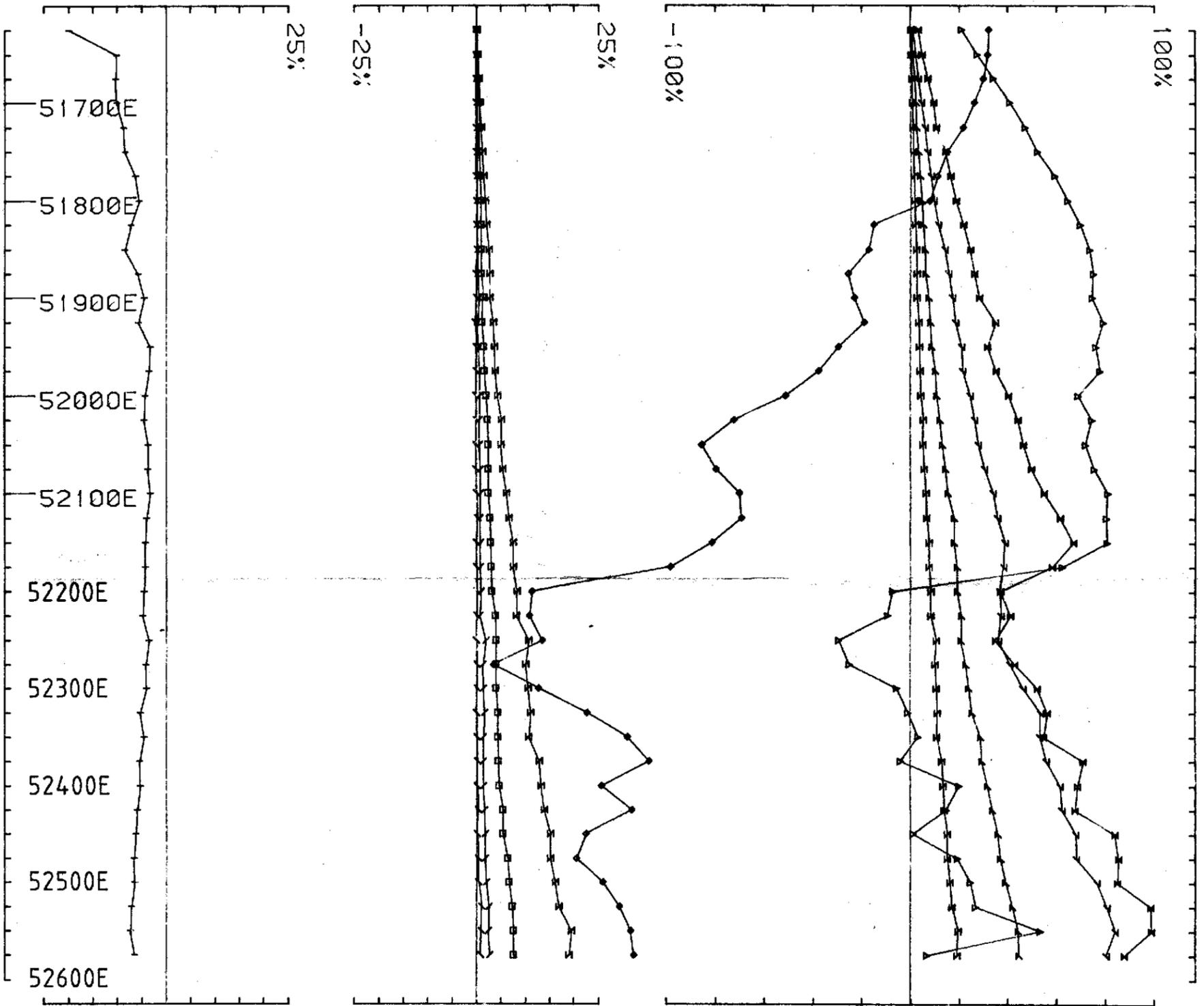


Mt. Cattley
 LOOP 0006
 LINE 21200
 Hz

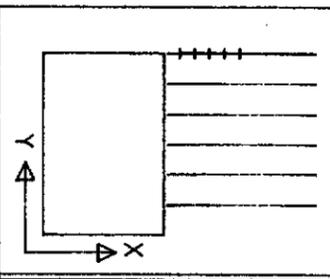
TASh 3283

934064

064

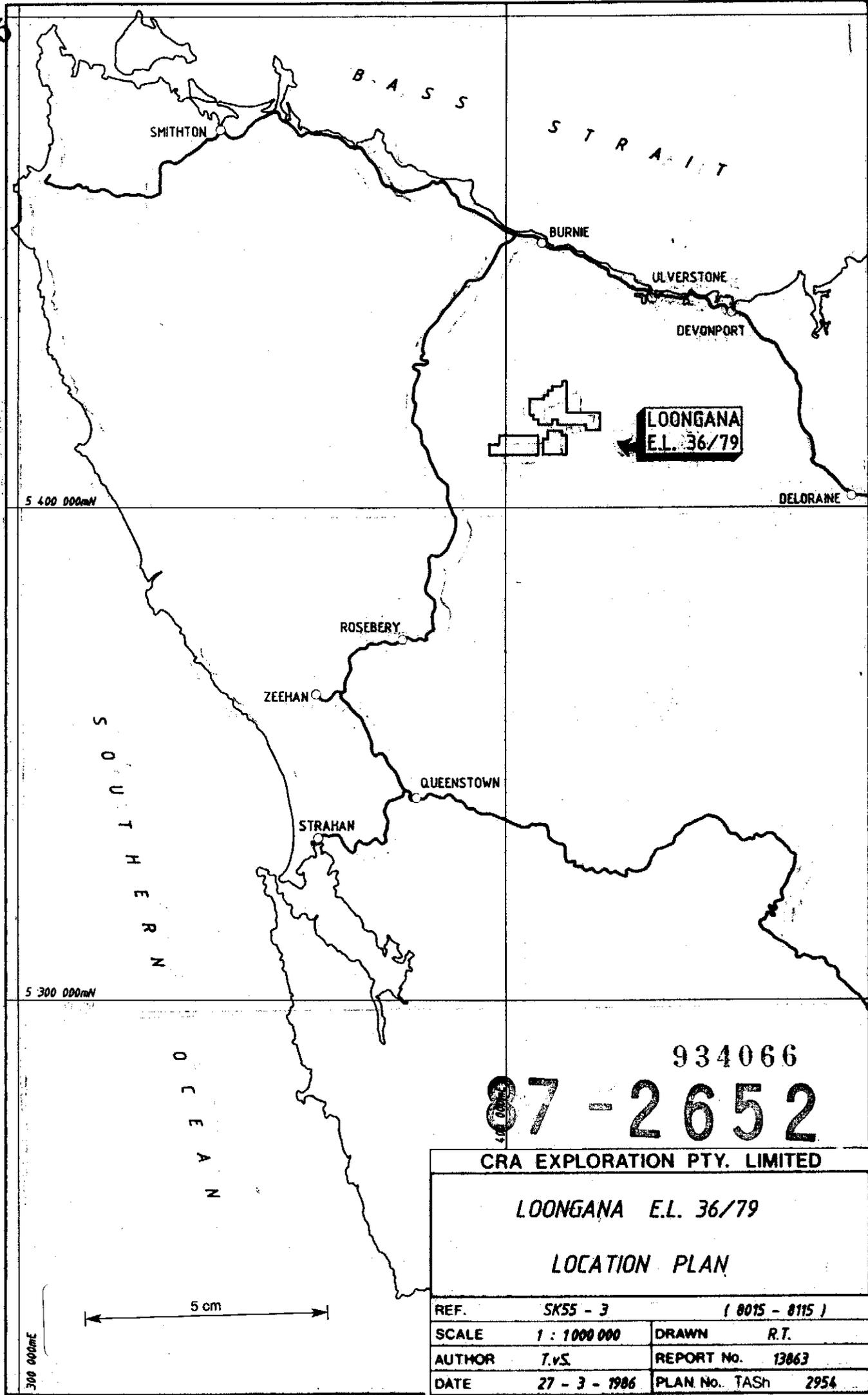


LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8657
 AREA :- Mt. Cattley
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 21400N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



Mt. Cattley
 LOOP 0006
 LINE 21400
 Hz

065



LOONGANA
E.L. 36/79

934066

87-2652

CRA EXPLORATION PTY. LIMITED

LOONGANA E.L. 36/79

LOCATION PLAN

REF.	SK55 - 3	(8015 - 8115)
SCALE	1 : 1000 000	DRAWN R.T.
AUTHOR	T.v.S.	REPORT No. 13863
DATE	27 - 3 - 1986	PLAN No. TASH 2954

5 400 000mN

DELORANE

ROSEBERRY

ZEEHAN

QUEENSTOWN

STRAHAN

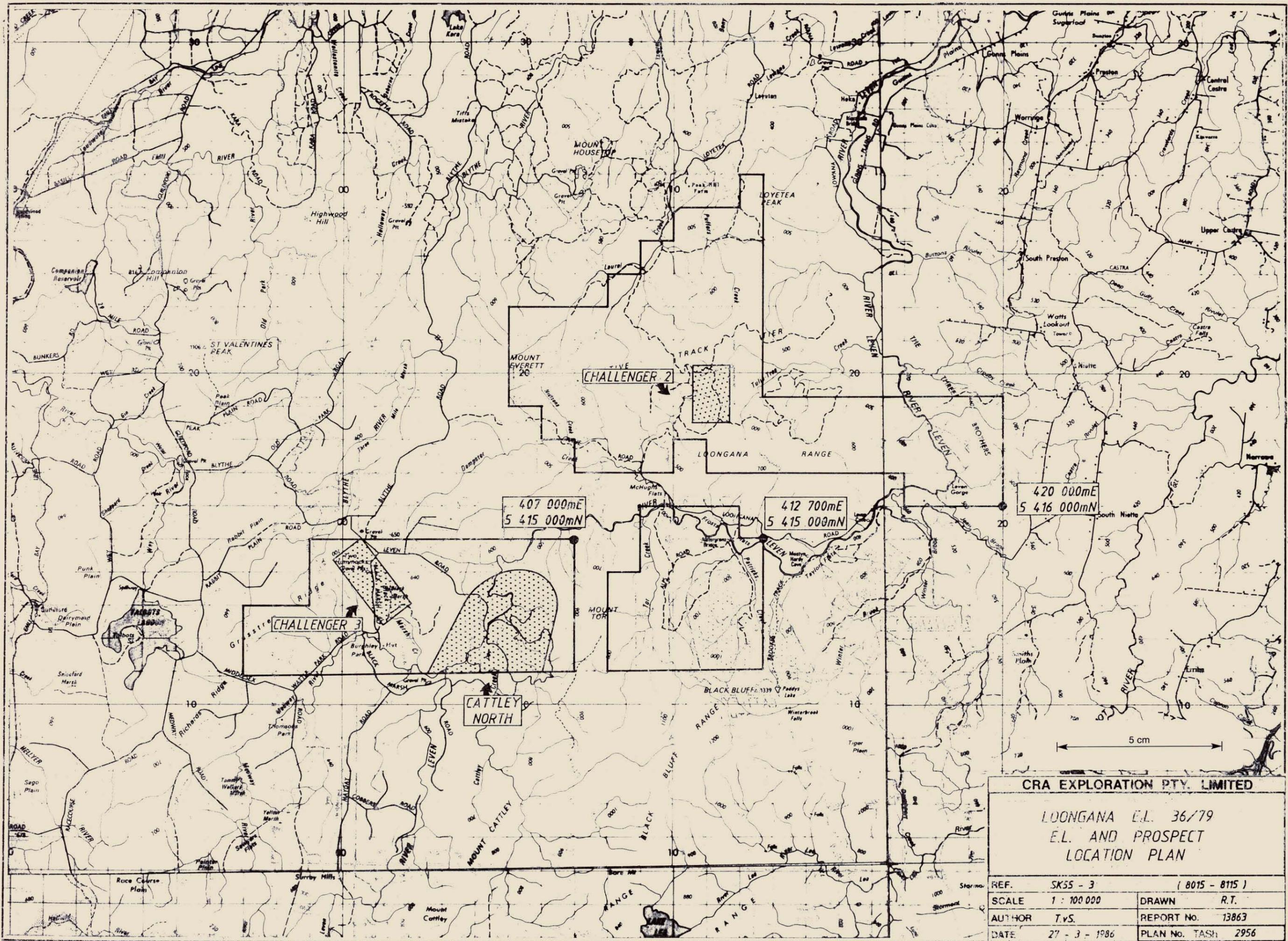
S O U T H E R N

O C E A N

5 300 000mN

5 cm

5000 000mE



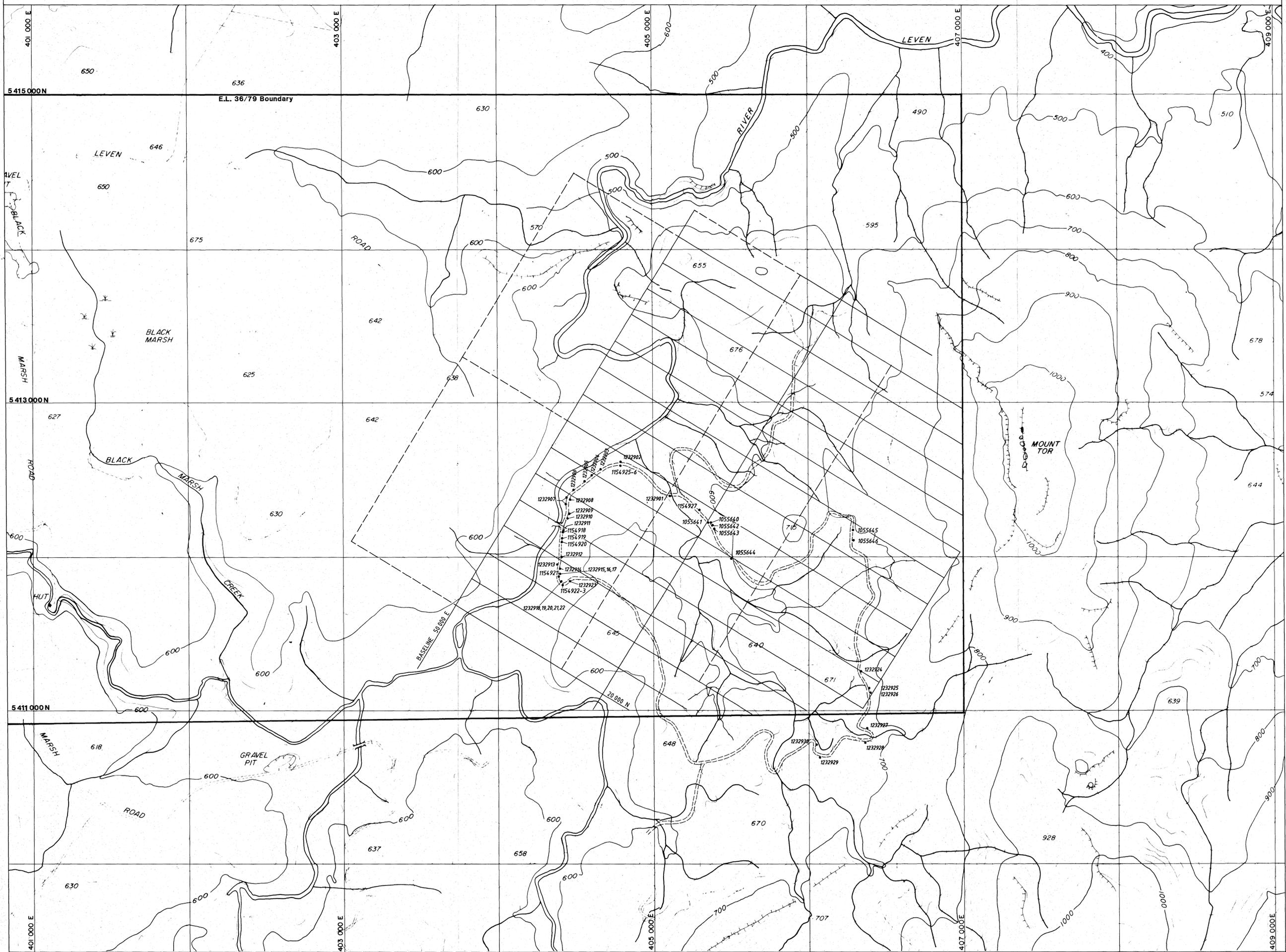
CRA EXPLORATION PTY. LIMITED	
LOONGANA E.L. 36/79	
E.L. AND PROSPECT	
LOCATION PLAN	
REF.	SK55 - 3 (8015 - 8115)
SCALE	1 : 100 000
AUTHOR	T.V.S.
DATE	27 - 3 - 1986
DRAWN	R.T.
REPORT No.	13863
PLAN No.	TASH 2956

87-2652

990

934067

CATTLEY NORTH PROSPECT

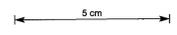


Sample	Cu	Pb	Zn	Ag	As	Fe%	Mn	Ba	Au(ppb)
1232901	10	260	-1	12	2.67	840	490	10	
1232902	15	70	85	-1	24	4.47	940	340	5
1232903	10	20	95	-1	4	2.22	75	440	<3
1232904	25	230	140	-1	65	3.69	85	650	<3
1232905	10	185	85	-1	24	1.69	30	640	<3
1232906	10	300	115	-1	20	2.44	1150	680	3
1232907	10	190	90	-1	36	1.90	145	750	3
1232908	5	50	40	-1	16	3.00	650	520	3
1232909	20	60	120	-1	13	3.13	870	820	<3
1232910	5	95	80	-1	65	2.17	800	400	10
1232911	15	760	55	1	520	2.18	40	280	65
1232912	15	90	80	1	20	2.32	120	740	3
1232913	15	135	30	-1	120	2.30	35	250	40
1232914	10	240	175	-1	55	2.68	70	330	40
1232915	10	195	45	-1	40	1.54	35	270	10
1232916	80	880	180	8	330	4.11	40	740	50
1232917	80	860	80	8	620	3.23	30	1100	145
1232918	70	440	80	6	340	2.21	20	920	210
1232919	45	450	20	4	1150	3.64	25	1000	125

Sample	Cu	Pb	Zn	Ag	As	Fe%	Mn	Ba	Au(ppb)
1232920	20	340	15	2	360	1.87	20	880	25
1232921	100	440	35	12	840	4.50	25	790	70
1232922	20	90	10	6	70	5.77	30	830	<3
1232923	10	185	15	3	650	2.46	25	1100	20
1232924	25	35	230	-1	28	4.19	330	650	3
1232925	NR	NR	NR	NR	NR	NR	NR	NR	NR
1232926	2	25	25	-1	18	1.59	35	470	<3
1232927	2	20	25	-1	12	0.99	25	410	<3
1232928	10	20	35	-1	6	1.58	35	450	3
1232929	5	25	30	-1	11	1.40	25	470	3
1232930	5	25	95	-1	9	5.22	430	620	<3

Sample	Cu	Pb	Zn	Ag	As	Fe	Mn	Au(ppb)
1055640	5	<5	220	1	12	11.7%	760	5
1055641	5	<5	70	1	10	3.69%	95	3
1055642	<2	<5	200	1	2	13.2%	2750	5
1055643	5	15	140	1	4	8.55%	245	<3
1055644	50	10	95	1	7	2.95%	730	5
1055645	15	10	45	1	15	2.85%	190	3
1055646	5	50	290	1	16	8.03%	175	3

Sample	Cu	Pb	Zn	Ag	As	Fe	Mn	Au(ppb)
1154918	15	70	70	1	11	2.05%	70	<3
1154919	15	400	35	1	350	2.15%	30	25
1154920	30	1000	60	3	1150	4.78%	40	125
1154921	210	1200	65	5	1050	3.92%	40	270
1154922	15	280	20	5	620	2.17%	30	10
1154923	20	230	20	3	700	2.78%	30	10
1194925	20	195	90	2	34	3.05%	40	5
1194926	5	195	200	1	20	5.06%	800	<3
1194927	20	30	65	1	-1	4.34%	350	<3

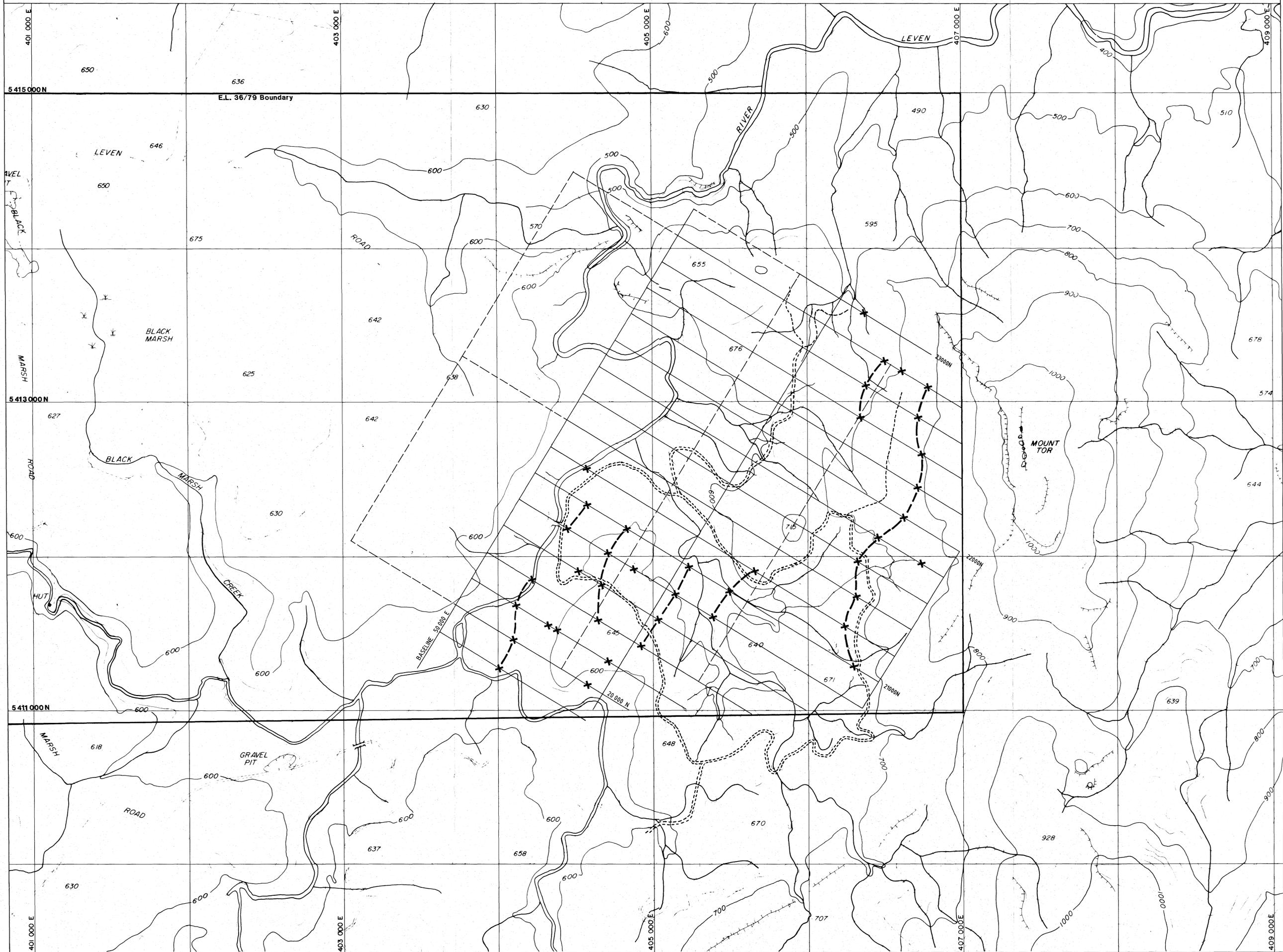


934069
87-2652

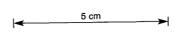
- Rock Chip Sample
 - Stream Sediment Sample
- ** N.B. ** All results in ppm unless otherwise stated.

CRA EXPLORATION PTY. LIMITED			
LOONGANA E.L. 36/79			
CATTLEY NORTH PROSPECT			
GEOCHEMISTRY			
LOCATIONS & RESULTS			
REF:	SK55 - 3	(8015 - 8115)	
SCALE	1 : 10 000	DRAWN	R.T.
AUTHOR	S.J.C.	REPORT No.	
DATE	AUG 1986	PLAN No.	TASH 3191

CATTLEY NORTH PROSPECT

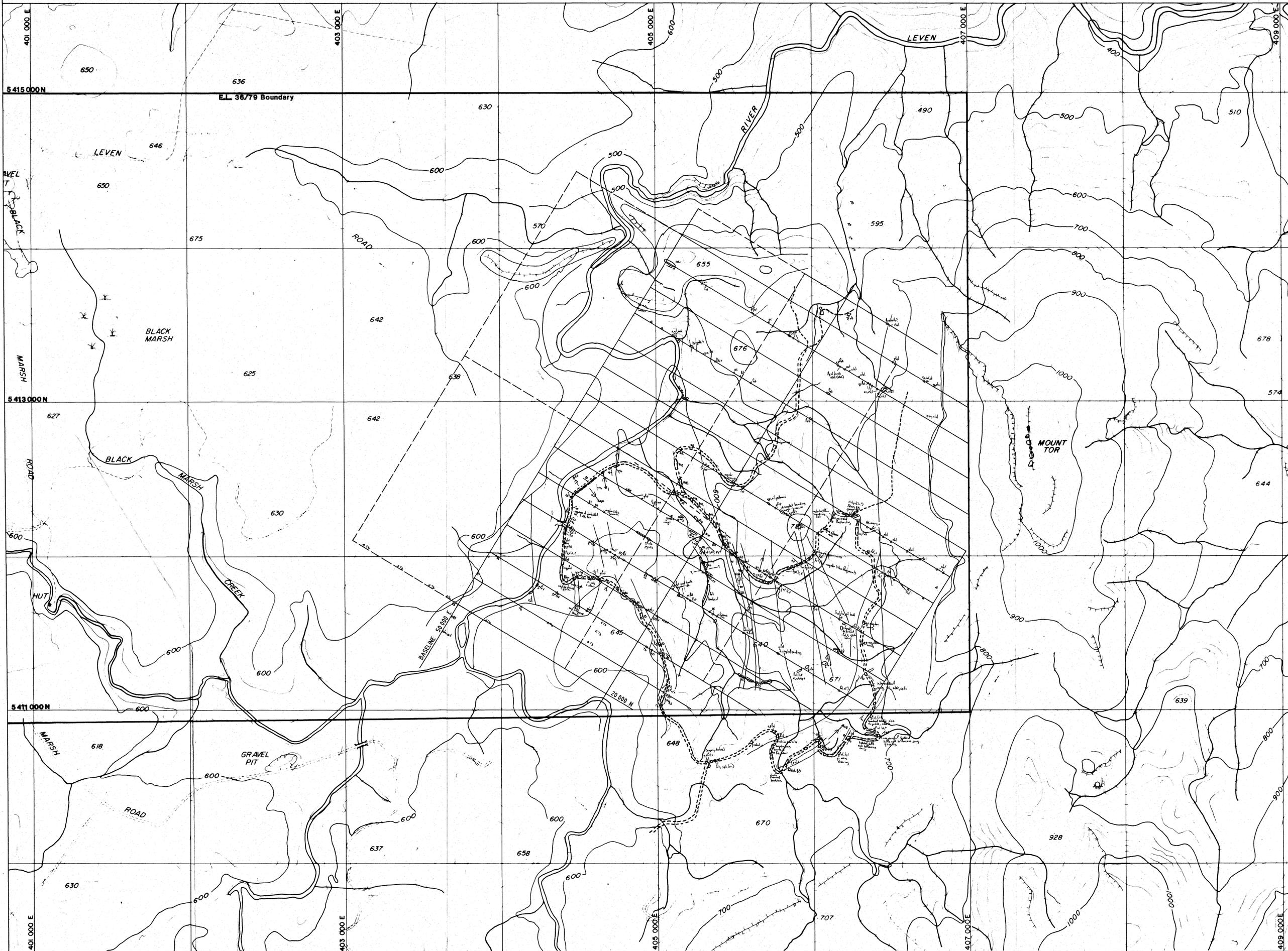


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87-2652



CRA EXPLORATION PTY. LIMITED			
LOONGANA E.L. 36/79			
CATTLEY NORTH PROSPECT			
U.T.E.M. ANOMALY PLAN			
REF.	SK55 - 3	(8015 - 8115)	
SCALE	1 : 10 000	DRAWN	R.T.
AUTHOR	T.K.S.	REPORT No.	
DATE	9 - 2 - 1987	PLAN No.	TASH 3289

CATTLEY NORTH PROSPECT

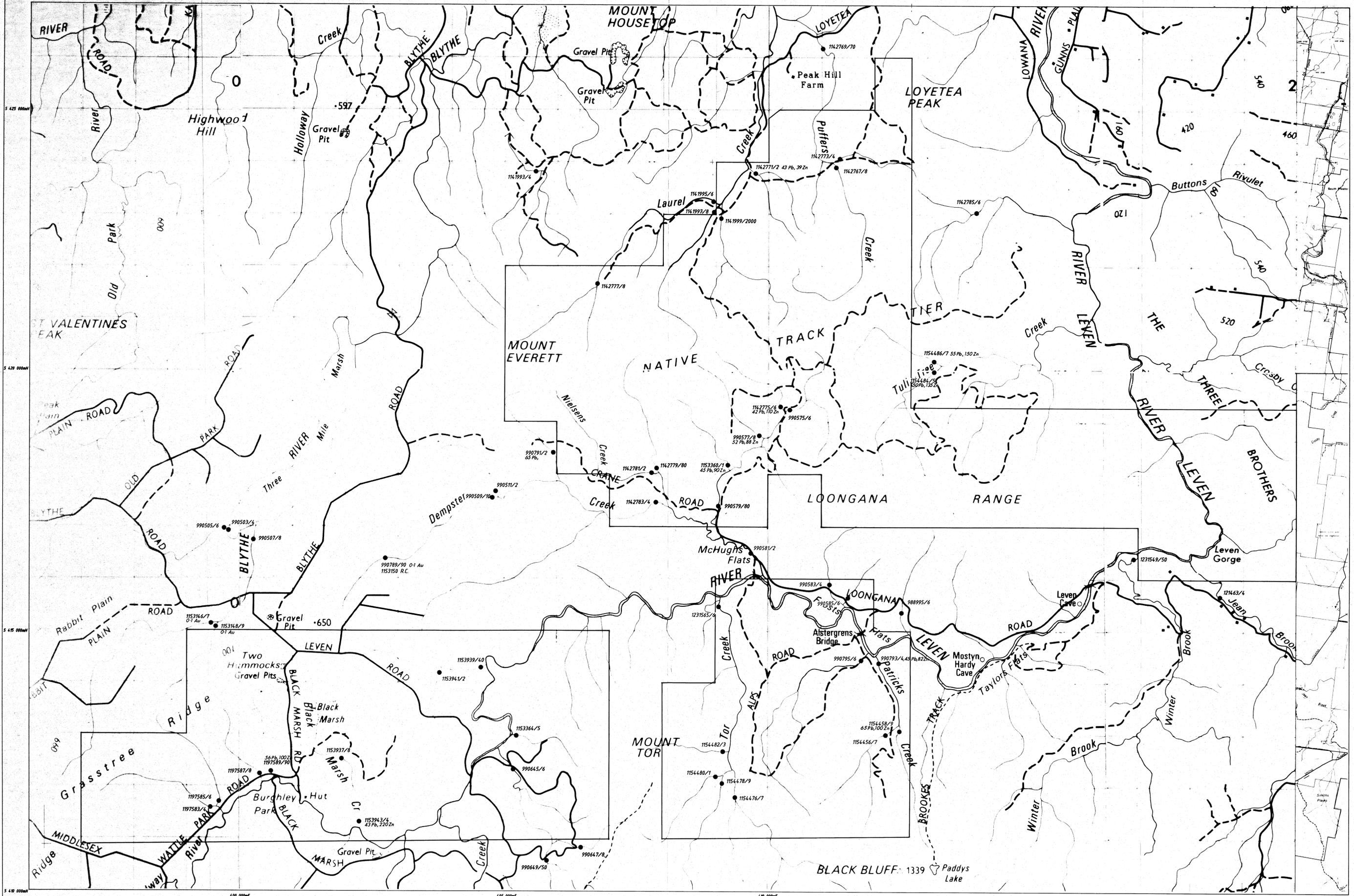


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CRA EXPLORATION PTY. LIMITED
LOONGANA E.L. 36/79
CATTLEY NORTH PROSPECT
GEOLOGY

REF.	SK55 - 3	(0015 - 0115)
SCALE	1 : 20 000	DRAWN S.H.
AUTHOR	S.H.	REPORT No.
DATE	MARCH 1987	PLAN No. TASH 3347





6023



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87-2652

* NB. * EVEN No. --- 4 mesh CYANIDE LEACH SAMPLE.
ODD No. --- 80 mesh SAMPLE.

CRA EXPLORATION PTY. LIMITED	
LOONGANA E.L. 36/79	
CRAE REGIONAL STREAM SEDIMENT	
SAMPLE LOCATIONS 1985 - '86	
WITH ANOMALOUS RESULTS	
REF: SK55 - 3	(805 - 815)
SCALE: 1 : 25 000	DRAWING: R.T.
AUTHOR: S.L.C.	REPORT NO.: 3863
DATE: 17-3-1987	PLAN NO.: TASH 3350

6023