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LAKE MARGARET EL 5/85

PROGRESS REPORT FOR THE PERIOD

20 SEPTEMBER 1986 TO 30 JULY 1987

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CONTENTS

| | <u>Page No</u> |
|-------------------------------|----------------|
| 1. SUMMARY | 1 |
| 2. INTRODUCTION | 1 |
| 3. CONCLUSIONS | 2 |
| 4. RECOMMENDATIONS | 2 |
| 5. GEOLOGY | 3 |
| 6. GEOCHEMISTRY | 4 |
| 6.1 Lake Dora Grid | 4 |
| 6.2 Red Hills Grid | 5 |
| 6.3 Howards Anomaly | 5 |
| 6.3.1 Base Metal Geochemistry | 5 |
| 6.3.2 Gold Geochemistry | 6 |
| 6.4 Owen Conglomerate | 6 |
| 7. GEOPHYSICS | 7 |
| 7.1 Lake Dora Grid | 7 |
| 7.2 Red Hills Grid | 7 |
| 8. LOCATION | 8 |
| 9. KEYWORDS | 8 |
| 10. LIST OF PLANS | 8 |
| 11. LIST OF APPENDICES | 13 |

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1. SUMMARY

UTEM and ground magnetic surveys have been completed over the Red Hills and Dora prospects. The surveys failed to locate any significant conductors however at Red Hills evidence of a conductive and magnetic alteration zone in the rhyolite has been found.

A downhole EM survey of RH5 has indicated that it is unlikely that massive sulphide extends far from the drillhole.

Stream, soil and rock geochemistry carried out over Howards, Dora and Red Hills prospects has downgraded them. Similarly, assaying of previously unsampled diamond drillcore from the Red Hills and Howards prospects failed to identify any encouraging gold or base metal mineralization.

Results from the regional cyanide leach sampling programme over the Owen Conglomerate were discouraging, with no anomalies identified.

2. INTRODUCTION

This report covers all work carried out over EL 5/85, Lake Margaret, between the 20th September 1986 and the 30th July 1987. Lake Margaret EL is centred approximately fifteen kilometres north-east of Queenstown (plan TASH 3081).

The area has had a long history of exploration, the most recent and intensive testing was carried out by the Renison-Getty partnership. The vast bulk of the previous work was directed towards locating a volcanogenic massive sulphide deposit and little attention had been paid to gold exploration. CRA Exploration has, in the last two years attempted to assess the gold potential of known mineral occurrences and to locate new prospects.

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3. CONCLUSIONS

UTEM surveys over Red Hills and Lake Dora prospects have failed to locate any significant conductors this has downgraded the potential of these prospects to host a significant volcanogenic massive sulphide deposit. At Red Hills it is possible that the host horizon is not the only factor controlling mineralisation, cross cutting structures (i.e. faults) may be important.

Regional cyanide leach sampling is of little use in defining prospective for gold mineralisation within or underneath the Owen Conglomerate. Consequently the exploration of the Owen and sub-Owen will be essentially a geophysical exercise.

4. RECOMMENDATIONS

- 4.1 Howards Anomaly: Detailed stream and rock chip geochemistry combined with geological mapping is required to determine whether or not the gold anomalism evident can be adequately explained by the 9m @ 0.2 ppm Au recorded in drillhole HA2.
- 4.2 Red Hills: The existing drillcore should be examined to determine the distribution of the gold with respect to stratigraphy/rock type and tectonic structures.
- 4.3 Lake Dora: The only work required is some ground magnetics over an aeromagnetic anomaly in the north of the UTEM grid. This ground follow up would also include the taking of stream sediment samples from two creeks.

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4.4 Selina: A thorough compilation of all available data is required to adequately assess its potential to host a volcanogenic massive sulphide gold deposit. This literature compilation will be combined with limited rock chip sampling in an effort to delineate areas for UTEM surveying prior to drill testing.

4.5 Owen Conglomerate: Reinterpretation of the aeromagnetic data has identified three primary targets the Lake Julia, Lake Beatrice and Rolleston Rd anomalies which should be followed up using ground magnetics and where appropriate IP. The detailed ground surveys will hopefully allow the definition of suitable drill targets. Particular attention should be paid to faulting within the Owen and all creeks draining these faults should be adequately stream sediment sampled.

5. GEOLOGY (Plan No TAS 3133)

The area is, for the most part, underlain by the Owen Conglomerate of Ordovician age, the overlying Gordon limestone is restricted to a synclinal area west of Lake Spicer. The relationship of the Owen Conglomerate to the underlying Cambrian volcanics is for the most part unconformable, however west of the Great Lyell Fault at Mount Julia, it is gradational and conformable. The Owen Conglomerate includes poorly graded conglomeratic units alternating with varying proportions of well graded and sorted sandy to silty intervals. It varies from green, chloritic to strongly haematitic. It is locally pyritic. Conglomeratic units vary from weakly deformed to displaying strongly flattened clasts. Quartz veining is locally intense.

Volcanic rocks of the Tyndall Group flank the central Owen Conglomerate. The Group includes quartz-feldspar-phyric lavas, tuffs, agglomerates and minor shales. This group which is now believed to host the Hellyer and Que River deposits hosts all recognised targets east of the Owen Conglomerate in the Lake Margaret area and probably also the Howard's anomaly.

The feldspar phyric volcanics of the Central Volcanic Sequence are poorly represented in the Lake Margaret EL being only recognised with certainty at Red Hills and in the Beatrice area southeast of Mount Sedgwick. The existence of Central Volcanic Sequence rocks at the Howard's anomaly is now uncertain.

6. GEOCHEMISTRY

Over the last ten months the Lake Dora, Red Hills and Howards anomalies have been the target for most of the geochemistry that has been carried out. In addition these areas of the Owen Conglomerate have been assessed for their gold potential using cyanide leach techniques.

6.1 Lake Dora Grid

A value of 2 g/t Au from Goldfields dump sampling prompted a thorough programme of dump sampling. Results were dissapointing with a peak value of 370 ppb Au from 62 rock samples (plan TASH 3185). Stream sediment samples, -80# and cyanide leach, were collected from creeks draining the prospect and gave disappointing results with peak values of 150 ppb and 1800 ppt respectively (plan TASH 3287).

6.2 Red Hills Grid

Three lines of detailed soil sampling was carried out near No. 1 north adit to follow up a coincident IP and weak UTEM anomaly, see plans TASH 3435, 3436 and 3437. One weak (up to 220 ppb) gold anomaly was delineated, see TASH 3438. Outcrop samples taken from the same area, four grab and one channel sample, returned an average of 2 g/t gold. Though there appears to be a background of elevated Au (30-60 ppb) in the altered acid volcanics in the area of the adit the highest grades are in the veins.

Three metre core grind samples were taken from 7 of the original Goldfields drillholes. Goldfields had failed to assay all the core produced and it was hoped to identify a previously overlooked zone of gold mineralization. From the results received to date no such zone has been identified, see appendix 4 for the drillhole assay data.

6.3 Howards Anomaly

6.3.1 Base metal geochemistry. The stream draining the UTEM anomaly C (plan TASH 3088) were found to be devoid of geochemical anomalism. Likewise shale outcrops near UTEM anomaly D failed to produce any significant geochemical results (plan TASH 3190). Re assaying of drillhole RH7 returned generally low base metal values with maximum values for Pb, Zn and Ba at 580 ppm, 4500 ppm Zn and 5.77% respectively.

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6.3.2 Gold Geochemistry: A 12,000ppt cyanide leach sample result from a creek draining the Howards anomaly area highlighted the gold potential of the area (plan TASH 3287). Soil rejects were obtained from Goldfields, bulked in groups of five and analysed for Au. A well defined anomaly with a peak value of 30 ppb was identified in the vicinity of grid line 20N (plan TASH 3296). This area was immediately soil sampled and the anomaly confirmed with a peak value of 4120 ppb (plans TASH 3353, 3354 and 3355). The anomaly is probably explained by 9m of 0.2 g/t Au in HA2 however there remains a need for thorough prospecting and extensions of the soil grid southwards to ensure that this is indeed the case. Rock sampling in the area to date has produced disappointing results with a peak value of 15 ppb (plan TASH 3190). Gold assays from diamond drillhole HA7 were disappointing. One three metre interval returned 210 ppb while the remainder of the hole assayed at less than 26 ppb, see Appendix 4.

6.4 Owen Conglomerate

Owen Conglomerate exploration consisted primarily of cyanide leach stream sediment sampling for gold anomalism. Results were dissapointing with no anomalies identified, (see TASH 3287). A haematitic iron formation at the top of the middle Owen Conglomerate was rock sampled for gold, however the peak value obtained was 15 ppb (plan TASH 3292).

7. GEOPHYSICS

Over the last 10 months UTEM surveys have been carried out over the Lake Dora and Red Hills grids. Ground magnetics was carried out over the Red Hills grid as was downhole EM testing of drillhole RH5.

7.1 Lake Dora Grid

Approximately 14 line kilometres of UTEM was carried out over the Lake Dora grid. (plan TASH 3372). While the UTEM survey did not locate any massive sulphide conductors, the associated geophysical interpretation has shown an area of interest on line 645 (65s) which is magnetically low and has a small IP anomaly associated with it, see TASH 3373. Refer to appendix 1 and plans TASH 3370, 3318-3335 for a more detailed account of the work carried out.

7.2 Red Hills Grid

Approximately 8.5 kilometres of survey line was laid out at a 150 to 200 metre spacing and a UTEM survey carried out over Utem (plan TASH 3344). In addition to this ground magnetic readings were recorded at 12.5 metre intervals over the grid, see TASH 3358. The UTEM survey failed to locate any significant conductors, whether sulphide bodies or a continuation of the prospective black shale unit. Evidence of a conductive and magnetic alteration zone in the rhyolite on lines 125 and 6S has been found though the significance of this is unclear. Refer to appendix 2 for a detailed account of the survey and plans TASH 3309-3317 and 3350. Drillhole RH5, which returned 2.8m of 11.4% Pb, 34.5% Zn, 250 g/t Ag and 5.6 g/t Au, was also tested

with downhole EM using the EM37 system. It appears unlikely that the massive sulphide intersection extends far from the hole, (plan TASH 3191).

8. LOCATION

Queenstown 1:250 000 sheet SK55-5.

9. KEYWORDS

Cambrian, Ordovician, Acid Volcanics, Intermediate, Shale, Dome, Geophys EM, Geophys Magnetic, Geochem Drainage, Geochem Rock, Geochem Soil.

10. LIST OF PLANS

| <u>Plan</u> <u>TASH No</u> | <u>Title</u> | <u>Scale</u> | |
|-------------------------------|---|--------------|---|
| 3081 | LAKE MARGARET EL 5/85 Location Plan | 1:1 000 000 | ✓ |
| 3133 | LAKE MARGARET EL 5/85 Geological Compilation after K D Corbett 1984 | 1:50 000 | ✓ |
| 3292 | LAKE MARGARET EL 5/85 Reconnaissance Rock Sampling | 1:50 000 | ✓ |
| 3287 | LAKE MARGARET EL 5/85 Stream Sediment Sampling Gold Geochem | 1:50 000 | ✓ |
| 3185 | LAKE MARGARET EL 5/85 Dora-Spicer Prospect Rock Chip and Stream Sediment Geochemistry Results | 1:5 000 | ✓ |

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|------|--|----------|---|
| 3370 | LAKE MARGARET EL 5/85 Dora Spicer Prospect Ground Magnetics | 1:20 000 | ✓ |
| 3372 | LAKE MARGARET EL 5/85 Dora Spicer Prospect UTEM Anomaly Location Plan | 1:20 000 | ✓ |
| 3373 | LAKE MARGARET EL 5/85 Dora Spicer Prospect Channel 7 UTEM Contours | 1:5 000 | ✓ |
| 3358 | LAKE MARGARET EL 5/85 Red Hills Grid Ground Magnetic Contours | 1:5 000 | ✓ |
| 3435 | LAKE MARGARET EL 5/85 Red Hills Prospect Soil Sample Results Cu, Pb, Zn | 1:5 000 | ✓ |
| 3436 | LAKE MARGARET EL 5/85 Red Hills Prospect Soil Sample Results Fe, Mn | 1:5 000 | ✓ |
| 3437 | LAKE MARGARET EL 5/85 Red Hills Prospect Soil Sample Results As, Au | 1:5 000 | ✓ |
| 3438 | LAKE MARGARET EL 5/85 Red Hills Prospect Gold Exploration Summary | 1:10 000 | ✓ |
| 3344 | LAKE MARGARET EL 5/85 Red Hills Prospect UTEM Grid | 1:5 000 | ✓ |
| 3350 | LAKE MARGARET EL 5/85 Red Hills Prospect Channel 7 UTEM Contours | 1:5 000 | ✓ |
| 3191 | LAKE MARGARET EL 5/85 Red Hills Prospect Downhole EM Loop Positions | 1:5 000 | ✓ |
| 3353 | LAKE MARGARET EL 5/85 Howards Anomaly Grid Soil Geochem Cu Pb Zn | 1:2 500 | ✓ |

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|------|--|------------|
| 3354 | LAKE MARGARET EL 5/85 Howards Anomaly Grid Soil Geochem Ag Au As | 1:2 500 ✓ |
| 3355 | LAKE MARGARET EL 5/85 Howards Anomaly Grid Soil Geochem Fe Mn Ba | 1:2 500 ✓ |
| 3296 | LAKE MARGARET EL 5/85 Howards Anomaly Au in Composite Soil Samples | 1:5 000 ✓ |
| 3190 | LAKE MARGARET EL 5/85 Howards Anomaly Geochemistry Results | 1:5 000 ✓ |
| 3309 | LAKE MARGARET EL 5/85 Red Hills Prospect Secondary Field Continuous Normalisation Loop 0001 Line 20N | As Shown ✓ |
| 3310 | LAKE MARGARET EL 5/85 Red Hills Prospect Secondary Field Continuous Normalisation Loop 0001 Line 14N | As Shown ✓ |
| 3311 | LAKE MARGARET EL 5/85 Red Hills Prospect Secondary Field Continuous Normalisation Loop 0001 Line 8N | As Shown ✓ |
| 3312 | LAKE MARGARET EL 5/85 Red Hills Prospect Secondary Field Continuous Normalisation Loop 0001 Line 6S | As Shown ✓ |
| 3313 | LAKE MARGARET EL 5/85 Red Hills Prospect Secondary Field Continuous Normalisation Loop 0001 Line 6S | As Shown ✓ |
| 3314 | LAKE MARGARET EL 5/85 Red Hills Prospect Secondary Field Continuous Normalisation Loop 0001 Line 12S | As Shown ✓ |

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|------|---|------------|
| 3315 | LAKE MARGARET EL 5/85 Red Hills Prospect Secondary Field Continuous Normalisation Loop 0001 Line 26N | As Shown ✓ |
| 3316 | LAKE MARGARET EL 5/85 Red Hills Prospect Secondary Field Continuous Normalisation Loop 0001 Line 32N | As Shown ✓ |
| 3317 | LAKE MARGARET EL 5/85 Red Hills Prospect Secondary Field Continuous Normalisation Loop 0001 Line 38N | As Shown ✓ |
| 3318 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0001 Line 65S | As Shown ✓ |
| 3319 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0001 Line 72S | As Shown ✓ |
| 3320 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0001 Line 80S | As Shown ✓ |
| 3321 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0001 Line 88S | As Shown ✓ |
| 3322 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0001 Line 96S | As Shown ✓ |
| 3323 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0001 Line 104S | As Shown ✓ |

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| 3324 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0001 Line 110S | As Shown ✓ |
| 3325 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0001 Line 114S | As Shown ✓ |
| 3326 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0002 Line 104S | As Shown ✓ |
| 3327 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0002 Line 110S | As Shown ✓ |
| 3328 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0002 Line 114S | As Shown ✓ |
| 3329 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0002 Line 120S | As Shown ✓ |
| 3330 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0002 Line 128S | As Shown ✓ |
| 3331 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0002 Line 136S | As Shown ✓ |
| 3332 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0002 Line 144S | As Shown ✓ |

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|------|---|------------|
| 3333 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0002 Line 152S | As Shown ✓ |
| 3334 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0003 Line 120S | As Shown ✓ |
| 3335 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0003 Line 128S | As Shown ✓ |
| 3336 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0003 Line 136S | As Shown ✓ |
| 3337 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0003 Line 144S | As Shown ✓ |
| 3338 | LAKE MARGARET EL 5/85 Lake Dora Prospect Secondary Field Continuous Normalisation Loop 0003 Line 152S | As Shown ✓ |

3523
3524
3525
3526
3527
3528

DOWN HOLE EM-37 PROJECT: RED HILLS
AREA: LAKE MARGARET

11. LIST OF APPENDICES

APPENDIX 1. Geophysics over the Lake Dora Grid Area.
Memo by T. Von Strokirch.

APPENDIX 2. Geophysics over the Red Hills Prospect.
Memo by T. Von Strokirch.

APPENDIX 3. Geochemical ledgers - Rock Samples

APPENDIX 4. Geochemical ledgers - Drillcore
Resampling, Red Hills and Howards
Prospects.

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APPENDIX 1

GEOPHYSICS IN THE LAKE DORA GRID AREA



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7 April 1987

Memorandum to: W A SHEPPARD
Copy to: T W DICKSON
From: T VON STROKIRCH

GEOPHYSICS IN THE LAKE DORA GRID AREA

1. INTRODUCTION

The Dora area lies in the eastern part of EL 5/85 (Lake Margaret) to the west and northwest of Lake Dora. The geology of the area consists of Cambrian and Ordovician sediments and Cambrian volcanics (plan TASH 3369). The Cambrian volcanics contain a number of small mineral occurrences, mostly mined at or before the turn of the century. These have attracted modern exploration to the area and, since 1957 when RTAE started exploring, the area has been subjected to a wide variety of geochemical and geophysical techniques.

The geophysics includes the following:-

| | | |
|---------|----------------------|----------------------------------|
| 1957 | Aeromagnetics | RTAE |
| 1958 | Ground Magnetics | RTAE |
| | Electromagnetics | RTAE |
| | Gravity | RTAE |
| 1969/70 | Ground Magnetics | CGG |
| | Induced Polarisation | CGG |
| | Self Potential | CGG |
| 1981 | Aeromagnetics | Tasmanian Department of Mines |
| 1987 | UTEM | CRAE |

The UTEM survey was performed in the hope that it would detect massive sulphides which had not proved obvious on the IP surveys due to the highly variable chargeability in the area. This memo covers the interpretation of the UTEM survey and a review of the earlier geophysical information.

2. REVIEW OF PREVIOUS SURVEYS

2.1 Aeromagnetics

The quality of the 1981 survey supersedes that of the 1957 survey easily. The 1981 survey was flown with lines 500 metres apart and a terrain clearance of 150m.

The Dora area is dominated by a north trending line of magnetic highs following the Cambrian-Ordovician contact. The most pronounced of these lies on the north western corner of the UTEM grid. This high appears to be split in half by a major lineament trending northwest. This lineament causes a pronounced low across the centre of the high, possibly due to destruction of magnetite in a local alteration zone.

The northerly lineament marking the eastern edge of the magnetic high is closely associated with the mineral occurrences. The intersection between this northerly lineament and the previously mentioned northwesterly feature is at the southern end of the magnetic low. This low would therefore seem to have potential for alteration associated mineralisation, possibly within a shear zone.

2.2 Induced Polarisation and Resistivity

The IP surveys conducted by CGG were in the Pole Dipole array with readings taken at 100ft separations. The major coincident resistivity low and chargeability high was in the eastern portion of the area. This anomaly was explained as being due to black shales. The UTEM survey did not cover this area. The only IP anomalies with responses over 10ms are a broad zone under Quaternary and Ordovician cover in the area covered by UTEM loop three, and a small anomaly near the discrete magnetic low mentioned in the previous section.

Both anomalies were considered to be 'of little interest'. The southern anomaly is believed due to moraines.

An SP anomaly was also recorded on the western end of lines 64S, 72S and 80S.

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2.3 Electromagnetics

The 1958 RTAE Turam survey covered much of the area. Most of the anomalies appear to have been of a shallow nature. One anomaly in the southwestern part of the grid was earmarked for follow-up gravity testing. A slight gravity low was found ruling out massive sulphides as a cause for the conductor. The conductor was interpreted to be low resistivity surficial moraines. This has not been confirmed by any drilling.

2.4 Ground Magnetics

Most of the area was surveyed by CGG in 1969/70 using a flux gate magnetometer with a station spacing of 50ft. A smoothed summary of this data is included. The aeromagnetic low in the northwest has been incompletely defined but appears to be located somewhat east of the plotted aeromagnetic location. It coincides with the position of the IP anomaly. The southern aeromagnetic anomalies are also displaced somewhat to the east on the ground magnetics. Apart from confirming the presence of the aeromagnetic anomalies, and defining a small high in the centre of the grid (greatly increased magnetite in the volcanics?) the ground magnetics adds little to the knowledge of the area.

3. UTEM SURVEY

A UTEM survey was planned and executed under the supervision of W A Sheppard, the CRAE geologist supervising the area. It was designed to find evidence of massive sulphides that had not been visible to previously utilized techniques.

3.1 Survey Parameters

Survey lines were re-established along an old Goldfields Exploration grid. The lines were between 200 and 250 metres apart. This should have been adequate to locate any major sulphide body within the stratigraphy.

Stations were read at 25 metre intervals up to a maximum of 1.2 kilometres from a loop edge. All readings were taken outside the loops as bodies were expected to be steeply dipping.

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A frequency of 26.23 Hz was used throughout the survey. Only the vertical component of the field was measured. Data was plotted as the continuously normalised vertical component. These profiles are included. A contour map of the Fraser filtered continuously normalised data was also prepared.

3.2 Results

No evidence of major conductors was recorded on the grid. A weak conductor was recorded in the south-western part of the grid where RTAE recorded their anomaly in 1958 but this appears essentially a surficial response. On line 136S an anomaly was recorded that persists until channel 2, apparently getting stronger in later times. This implies a negative decay which means that there is more than just a simple conductor there. The anomaly is of short wave length and thus probably less than 25 metres depth. Field inspection of the western end of the line is recommended though it is unlikely that there is an economic Pb/Zn body associated with this anomaly. Striking north across the grid the UTEM shows a line of contacts which parallel the known mineral occurrences. These contacts are presumed to follow a lithological change within the volcanic sequence. As they parallel the magnetic dislocations these contacts may be of interest.

The channel 7 contour map shows a weak conductive feature on lines 128S, 136S and 144S west of Michaels Tarn. This feature is presumed to be a lithological variation which probably also continues across 120S, 114S and 110S. It is not considered to be of any economic importance.

4. CONCLUSIONS

While the UTEM survey did not locate any massive sulphide conductors, the associated geophysical interpretation has shown an area of interest on line 64S (65S) which is magnetically low and has a small IP anomaly associated with it. This area may require some further investigation.



T VON STROKIRCH

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APPENDIX 2

RED HILLS GEOPHYSICS



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TVS W3.85.5/85

19 March 1987

Memorandum to: W A SHEPPARD
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RED HILLS GEOPHYSICSINTRODUCTION

In the period that Goldfields and Mt Lyell held the area under EL 9/66 they drilled 17 drillholes in the search for Pb/Zn and some 23 short percussion holes to evaluate the copper potential of the chloritically altered rhyolite. As hole RH5 intersected 2.8 metres of 52% combined sulphides they had considerable encouragement to continue. The following 12 holes into their postulated ore host horizon revealed no results of a comparable level. All their exploration work, including extensive surface geophysics and geochemistry as well as drilling, concentrated along the line of a black shale which is up sequence from the intersection in RH5.

Following CRAE taking up the ground under EL 5/85 it was noted that the ground to the north of that previously explored had very similar geology as well as continuous aeromagnetic responses. It was therefore decided to cover the prospective area, bounded to the north by Ordovician conglomerates, to the south by previous exploration and to the east by the continuation of the rhyolite (as mapped by aeromagnetism), with a UTEM survey. The UTEM survey was expected to be able to directly locate any major sulphide body within the survey. A ground magnetic survey was also proposed to aid in geophysical and geological interpretation in the search for Pb/Zn bodies and to accurately locate the northern extension of the rhyolite which has potential for Au mineralisation.

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SURVEY PARAMETERS

Approximately 8.5 kilometres of survey line was planned and laid out under the supervision of Dr W A Sheppard, CRAE Geologist in charge of the area.

The lines are loosely based on an old Goldfields grid and as such are not regularly spaced but are separated by distances varying from 150 to 200 metres. This spacing is considered to locate a stratigraphically hosted Pb/Zn body of adequate size.

The lines were surveyed by the EM system at 25 metre intervals. A transmission frequency of 26.23 Hz was used and only the vertical field was read. The data were plotted as continuously normalised plots of each line. The data were also transferred to IBM 3 1/2 inch disks for CRAE internal processing and a Fraser filtered contour map of Channel 7 produced as a geological aid.

Ground magnetic readings were recorded at 12.5 metre intervals along the survey lines using two magnetometers, a Geometrics G856 and a Geometrics G816. Readings were regularly recorded at a base station to remove diurnal variation and a small level difference between the magnetometers.

RESULTS

No major conductors were evident from the UTEM survey results.

The channel seven contour map shows a weak conductor on lines 12S and 6S. This roughly coincides with the westernmost peak of the magnetic anomaly in the rhyolite. The conductor is presumed to be due to an increase in the pyritic and chloritic alteration. While it is not likely that the conductor is due to base metal sulphides, it is possible that this altered area is a host to alteration associated gold though at this stage there is little rock sample evidence for this.

A further weak conductor occurs at 5725E on line 12S. This is associated with the western edge of the magnetic anomaly. This may be due to an alteration margin around the rhyolite or to a fault contact. Once again it is possibly associated with other mineralisation though in this case one might be disturbed with its weak nature on line 6S and 8N where it has almost disappeared.

Both these conductors will have been weakened somewhat by the low signal strength and poor coupling that would be expected at this distance from the loop but I would still expect a major sulphide body to show a reasonable decay.

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A curious feature is visible at 5500E on line 6S. It is a narrow late channel response getting more pronounced in the late channels, ie. exhibiting a negative decay. It is not the response of a conductor and there is no magnetic response at this point that might indicate pyritic body which could give a strange IP effect. In any case I would expect an IP response to give a reverse crossover in late times in any area as resistive as this, as may perhaps be occurring at 5850E on this line.

On line 8N there is a surficial response at 5500E. This may represent the eastern edge of a swamp or similar surface conductor.

On line 14N there is a similar shallow feature at 5525E. It extends only to channel 8 and once again looks like the edge of a surficial deposit.

On line 20N the feature is at 5475E. It again only extends to channel 8. At 5390E there is a magnetic contact.

The only anomaly on line 26N is a weak contact feature at 5235E. Its effect extends only to channel 9. Adjacent to it at 5275E there is a small magnetic dyke like unit. At 5390 the magnetics rise sharply to the 62600nT level.

There are no distinctive EM features visible on line 32N. The magnetics on the other hand show a number of features. Two are relatively distinct centred on 5900E and 5550E respectively and the third is a magnetic unit between 5200E and 5440E. The latter unit appears to have broadened significantly by line 38N even though the anomaly on line 38N is open to the east. The anomaly has an amplitude of only 62900nT and is thus unlikely to be the source of the airborne anomaly recorded on the Mines Department 1981 survey.

LIST OF REFERENCE PLANS

TASH 3309 to 3317, and 3350.

CONCLUSIONS

The UTEM survey has not located any significant conductors, whether sulphide bodies or a continuation of the black shale. Evidence of a conductive and magnetic alteration zone in the rhyolite has been found though this is of unknown significance.

The magnetic survey still needs to be extended to the east to locate the ground expression of the aeromagnetic anomaly. Line 14N needs to be resurveyed with ground magnetics due to an instrument malfunction.



T VON STROKIRCH

025

883026

APPENDIX 3

GEOCHEMICAL LEDGERS - ROCK SAMPLES

CRA EXPLORATION PTY. LTD.

028

| SAMPLE NUMBER | LOCATION | | Sample Type | ANALYSES (ppm) | | | | | | | | | | Geological Observations | |
|---|----------|----------|-------------|-----------------------------|----|----|----|------------|------|-----|------|---|----------|---|--|
| | Easting | Northing | | Cu | Pb | Zn | Ag | As | Fe % | Mn | Pb | Ba | Au (ppb) | | |
| | | | | | | | | | | | | | | | |
| 1153951 | 384750 | 5352450 | QC Chub | 10 | 65 | 25 | <1 | 32 | 21.9 | 380 | 104 | 170 | <3 | Brecciated massive hematite in red/white siltstone. | |
| 52 | 384750 | 5352500 | - | 5 | 55 | <5 | <1 | 18 | 6.89 | 40 | 64 | 40 | <3 | Sericitic / hematitic Footwall to Fe fm. | |
| 53 | 384750 | 5352500 | - | 10 | 60 | <5 | <1 | 46 | 24.5 | 80 | 96 | 140 | <3 | Fe fm - massive hematite with red-white siltstone | |
| 54 | 384800 | 5352450 | - | 10 | 60 | <5 | <1 | 28 | 20.4 | 125 | 92 | 120 | 15 | Brecciated massive hematite Fe fm. | |
| 55 | 385000 | 5352500 | - | 10 | 50 | <5 | <1 | 18 | 8.41 | 80 | 60 | 60 | <3 | Fe fm hosted by conglomerate - shows brecciated texture | |
| 59 | 385450 | 5352600 | - | 10 | <5 | <5 | <1 | 70 | 37.7 | 80 | 20 | 30 | <3 | - - - - - | |
| 57 | 385450 | 5352600 | - | 10 | 35 | <5 | <1 | 22 | 4.04 | 45 | 36 | 190 | <3 | Wall rock to previous sample (56) | |
| 58 | 385450 | 5352600 | - | 10 | 85 | <5 | <1 | 22 | 4.79 | 45 | 112 | 360 | <3 | Brecciated Fe fm, conglomerate hosted. | |
| DETECTION LIMIT | | | | 5 | 5 | 5 | 1 | 1 | 0.01 | 10 | 4 | 10 | 3 | | |
| ANALYTICAL METHOD | | | | 10586 | | | | | | | XRF1 | XRF1 | PM 205 | | |
| Project : Queenstons - Zeehan | | | | 1 : 250 000 Sheet : SK 55-5 | | | | AMG Zone : | | | | Sheet No. : 1 | | | |
| Tenement : Lake Margaret E.L. 5/85 | | | | DPO's : 35015 | | | | | | | | Laboratory : A.L.S. | | | |
| Area / Prospect : Owen Conglomerate Ironstone | | | | | | | | | | | | Collected By : Bill Sheppard Date : 17/2/87 | | | |

883027

CRA EXPLORATION PTY. LTD.

030

| SAMPLE NUMBER | LOCATION | | | ANALYSES | | | | | | | | | | Geological Observations | | | |
|---|----------|----------|------------------|----------|--------|--------|------------------------------|--------|-------|-------|------|--|-------|---|--|-----|--|
| | Easting | Northing | Sample Type | 1CS80 | 1CS80 | 1CS80 | 1CS80 | 1CS80 | Fe | Mn | Pb | Ba | Au | | | | |
| | | | | Cu ppm | Pb ppm | Zn ppm | Ag ppm | As ppm | % | ppm | ppm | ppm | ppm | | | ppb | |
| 1232551 | 387550 | 5354580 | Dumh grab | 4000 | 650 | 280 | 9 | 13 | 7.60 | 2800 | 500 | 40 | 35 | Vein quartz: milky with some chalcocite | | | |
| 52 | " | " | " | 4500 | 55 | 350 | 6 | 17 | 14.8 | 4050 | 84 | 230 | 15 | strongly chloritic tuff with dissem. + vein chalcocite | | | |
| 53 | " | " | " | 5500 | 50 | 360 | 7 | 24 | 14.3 | 4600 | 68 | 180 | 25 | - - - - - + ?shhd. | | | |
| 54 | " | " | " | 4450 | 165 | 390 | 9 | 17 | 15.4 | 5700 | 200 | 140 | 200 | - - - - - | | | |
| 55 | " | " | 5m o/c chib | 4750 | 130 | 360 | 8 | 16 | 14.5 | 5200 | 176 | 890 | 95 | - - - - - + minor magnetite | | | |
| 56 | 387510 | 5354640 | Dumh grab | 5100 | 320 | 650 | 7 | 16 | 11.3 | 5800 | 360 | 220 | 200 | - - (itld?) - - - - - + magnetite + pyrite | | | |
| 57 | " | " | " | 2750 | 250 | 680 | 5 | 13 | 11.5 | 6400 | 270 | 190 | 130 | - - - - - | | | |
| 58 | " | " | Dumh 5m o/c grab | 3650 | 330 | 570 | 6 | 14 | 10.6 | 5400 | 370 | 200 | 105 | - - - - - | | | |
| 59 | 387445 | 5354725 | 4m o/c chib | 2700 | 560 | 820 | 10 | 12 | 10.2 | 5950 | 610 | 230 | 90 | - - - - - + minor hyrite | | | |
| 1232560 | " | " | " | 4100 | 540 | 1350 | 9 | 10 | 10.7 | 5350 | 590 | 210 | 50 | - - - - - | | | |
| 61 | " | " | Dumh grab | 3800 | 630 | 1500 | 13 | 24 | 12.2 | 6150 | 700 | 150 | 90 | - - - - - | | | |
| 62 | " | " | " | 3150 | 450 | 1300 | 14 | 20 | 12.0 | 6050 | 490 | 180 | 50 | - - - - - | | | |
| 63 | " | " | Dumh 5m o/c grab | 5950 | 610 | 1250 | 14 | 26 | 12.0 | 5750 | 660 | 180 | 190 | - - - - - + minor hyrite + malachite | | | |
| 64 | 387410 | 5354790 | Dumh grab | 700 | 690 | 3250 | 5 | 19 | 12.9 | 8600 | 770 | 420 | 20 | - - - - - minor sulphide trace galena hyrite | | | |
| 65 | " | " | " | 120 | 980 | 1800 | 3 | 14 | 10.2 | 6600 | 1100 | 1300 | <3 | - - - - - | | | |
| 66 | " | " | " | 120 | 520 | 800 | 3 | 40 | 5.79 | 4800 | 520 | 400 | 15 | - - - - - | | | |
| 67 | 386755 | 5355145 | o/c grab | 30 | 140 | 170 | 6 | 38 | 32.2 | 770 | 270 | 230 | 40 | Massive magnetite veining from chloritic host rock. | | | |
| 68 | 386755 | 5355215 | Dumh grab | 1450 | 550 | 770 | 6 | 42 | 14.6 | 2800 | 600 | 1600 | 40 | strongly chloritic tuff with minor yellow sulphides + malachite | | | |
| 69 | " | " | " | 2950 | 710 | 1050 | 13 | 40 | 14.1 | 3200 | 840 | 1000 | 110 | - - - - - | | | |
| 1232570 | 386745 | 5355170 | " | 530 | 1700 | 2750 | 21 | 42 | 9.81 | 2200 | 1750 | 1400 | 25 | highly mineralized chloritic tuff | | | |
| DETECTION LIMIT | | | | 2 | 5 | 2 | 1 | 1 | 0.01 | 5 | 4 | 10 | 3 | | | | |
| ANALYTICAL METHOD | | | | 1CS80 | 1CS80 | 1CS80 | 1CS80 | 1CS80 | 1CS80 | 1CS80 | XRF1 | XRF1 | PM205 | | | | |
| Project: Queenstown - Zeehan | | | | | | | 1: 250 000 Sheet: Queenstown | | | | | AMG Zone: | | Sheet No.: | | | |
| Tenement: E.L 5/85 Lake Margaret | | | | | | | DPO's: 32054 | | | | | Laboratory: A.L.S. | | | | | |
| Area / Prospect: Dara Prospect; Dumh sampling | | | | | | | | | | | | Collected By: Bill Sheppard Dave Whitely | | Date: 31/Oct/86 | | | |

0000001

CRA EXPLORATION PTY. LTD.

883032

031

| SAMPLE NUMBER | LOCATION | | Sample Type | ANALYSES | | | | | | | | | | Geological Observations | |
|--|----------|----------|--------------------|--------------------------------------|--------|--------|--------|--------|-------|--------|--------|---|---------|--|--|
| | Easting | Northing | | Cu ppm | Pb ppm | Zn ppm | Ag ppm | As ppm | Fe % | Mn ppm | Pb ppm | Ba ppm | Au ppb. | | |
| 1232571 | 386745 | 5355170 | Dump grab | 3250 | 2250 | 8300 | 96 | 440 | 22.0 | 2600 | 2900 | 240 | 95 | Strongly mineralized (hy > chy > magnetite) chloritic volcanic | |
| 72 | " | " | - | 2700 | 4800 | 1.35% | 132 | 680 | 21.0 | 1600 | 7750 | 270 | 105 | - (semi massive hy + chy > mag) chloritic volcanic | |
| 73 | 386810 | 5355360 | flank grab of chih | 5050 | 1100 | 2100 | 21 | 130 | 16.3 | 2250 | 1250 | 1800 | 105 | Chalcopyrite/hyrite vein in chloritic volcanic. | |
| 74 | 386995 | 5355495 | Dump grab | 3550 | 2000 | 2950 | 15 | 95 | 16.5 | 3650 | 2150 | 1550 | 130 | Chloritized volcanic with strong magnetite/chalcopyrite mineralization | |
| 75 | " | " | - | 2500 | 1900 | 2300 | 14 | 70 | 23.3 | 3200 | 2300 | 550 | 370 | - | |
| 76 | " | " | - | 8750 | 3450 | 5050 | 22 | 55 | 25.5 | 3350 | 4400 | 190 | 20 | - | |
| 77 | " | " | Dump grab | 210 | 185 | 410 | 3 | 15 | 8.05 | 2150 | 200 | 890 | 200 | - | |
| 78 | 387005 | 5355565 | Dump grab | 135 | 185 | 420 | 2 | 18 | 9.40 | 2850 | 210 | 930 | <3 | - with minor hyrite | |
| 79 | " | " | - | 490 | 1450 | 850 | 2.6 | 390 | 19.2 | 710 | 2000 | 870 | 210 | - | |
| 1232580 | 386985 | 5355545 | - | 450 | 1450 | 820 | 2.4 | 420 | 19.6 | 650 | 2100 | 890 | 210 | strongly mineralized chloritic volcanic semi-massive hy and chy > mag | |
| 81 | " | " | - | 1400 | 1500 | 2650 | 12 | 140 | 14.8 | 2450 | 1950 | 760 | 90 | - | |
| 82 | 386960 | 5355610 | - | 45 | 200 | 410 | 2 | 2.6 | 6.85 | 2550 | 210 | 1750 | 5 | weakly chloritic volcanic with minor hyrite | |
| 83 | " | " | o/c chih | 45 | 250 | 360 | 3 | 2.2 | 5.63 | 1800 | 250 | 2400 | 10 | - | |
| 84 | 386840 | 5355660 | o/c (4m) | 470 | 410 | 37 | 5 | 1000 | 11.7 | 1250 | 450 | 1600 | 60 | weakly mineralized (for the most part) chloritic volcanic with sericite | |
| 85 | " | " | - (2m) | 160 | 320 | 95 | 4 | 2800 | 7.62 | 300 | 350 | 750 | 145 | strongly mineralized hyrite >>> chy assoc. with sericite in chloritic volcanic | |
| 86 | " | " | - (2m) | 95 | 110 | 350 | 2 | 1600 | 9.28 | 570 | 116 | 720 | 20 | - | |
| 87 | 387305 | 5355205 | o/c chih | 110 | 4400 | 2950 | 2.8 | 640 | 11.1 | 146% | 1.29% | 3950 | <3 | weakly sericitic + chloritic volcanic with dissemin. galena + hyrite | |
| 88 | " | " | " | 45 | 8600 | 1150 | 2.2 | 42 | 8.26 | 2.13% | 1.02% | 820 | <3 | - | |
| 89 | 387715 | 5355395 | Dump grab | 125 | 4250 | 1200 | 6 | 2.2 | 3.74 | 2450 | 4200 | 1700 | 135 | siliceous volcanic with minor hyrite; wispy chlorite | |
| 1232590 | 382510 | 5366395 | o/c grab | <2 | 220 | 140 | 2 | 10 | 28.2 | 300 | 390 | 490 | <3 | massive magnetite + magnetite veining | |
| DETECTION LIMIT | | | | 2 | 5 | 2 | 1 | 1 | 0.01 | 5 | 4 | 10 | 3 | | |
| ANALYTICAL METHOD | | | | IC580 | IC580 | IC580 | IC580 | IC580 | IC580 | IC580 | XRF1 | XRF1 | | Ag Values > 25ppm re-assayed by method A101 / samples re-assayed prior to Au. | |
| Project: Queenstown - Zeehan | | | | 1: 250000 Sheet: Queenstown AMG Zone | | | | | | | | Sheet No.: | | | |
| Tenement: E.L. 5/85 Lake Margaret | | | | DPO's 32054 | | | | | | | | Laboratory: A.L.S. | | | |
| Area / Prospect: Dora Prospect; Dump sampling / 1232590 :- Red Hills Prospect. | | | | | | | | | | | | Collected By: Bill Sheppard Dave Whitely | | Date: 31/Oct/86 | |

CRA EXPLORATION PTY. LTD.

883033

032

| SAMPLE NUMBER | LOCATION | | Sample Type | ANALYSES | | | | | | | | | | Geological Observations | |
|--|----------|----------|--------------------------------------|----------|--------|--------|--------|--------|--|--------|--------|---------------|--------|---|--|
| | Easting | Northing | | Cu ppm | Pb ppm | Zn ppm | Ag ppm | As ppm | Fe % | Mn ppm | Pb ppm | Ba ppm | Au ppb | | |
| 1232591 | 386870 | 5355360 | Dumk grab | 490 | 970 | 2750 | 9 | 135 | 16.5 | 2650 | 1100 | 2300 | 20 | Chloritic volcanic with very minor pyrite & trace magnetite | |
| 92 | " | " | | 290 | 630 | 860 | 11 | 105 | 11.5 | 2500 | 690 | 2050 | 10 | | |
| 1232594 | 387890 | 5354010 | Dumk grab | 2000 | 240 | 310 | 10 | 175 | 19.0 | 6150 | 300 | 650 | 30 | strongly chloritic volcanic with hunk altered siliceous lithology present. semi massive pyrite probably contains chalcopyrite, minor magnetite. | |
| 95 | " | " | - | 780 | 370 | 135 | 9 | 210 | 22.9 | 2850 | 460 | 1800 | 40 | | |
| 96 | " | " | - | 770 | 180 | 220 | 7 | 150 | 20.9 | 5500 | 240 | 740 | 40 | | |
| 97 | " | " | - | 730 | 220 | 160 | 7 | 370 | 22.6 | 2600 | 300 | 1550 | 60 | | |
| DETECTION LIMIT | | | | 2 | 5 | 2 | 1 | 1 | 0.01 | 5 | 4 | 10 | | | |
| ANALYTICAL METHOD | | | | | | | | | | | | | | | |
| Project: Queenstown - Zeehan | | | 1 250 000 Sheet: Queenstown AMG Zone | | | | | | Sheet No. | | | | | | |
| Tenement: E.L. 5/85 ² Lake Margaret | | | DPO's 32054 | | | | | | Laboratory A.L.S | | | | | | |
| Area / Prospect: Dora Prospect; Dumk sampling | | | | | | | | | Collected By Bill Shephard Dave Whitely | | | Date: 1/11/86 | | | |

CRA EXPLORATION PTY. LTD.

883034

033

| SAMPLE NUMBER | LOCATION | | Sample Type | ANALYSES | | | | | | | | | | Geological Observations |
|---------------|----------|----------|-------------|----------|------|------|-----|-----|-------|------|------|------|------|---|
| | Easting | Northing | | Cu | Pb | Zn | Ag | As | Fe | Mn. | Pb | Ba. | Au. | |
| | | | | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppb. | |
| 990655 | 386510 | 5357250 | | 5 | 45 | 105 | 1 | <1 | 3.52 | 1350 | 40 | 370 | <3 | Sericitic goldshathic tuff, some chloritic no sulphide <small>none quartz</small> |
| 56 | " | " | | 10 | 65 | 120 | 1 | <1 | 2.75 | 760 | 64 | 530 | <3 | |
| 57 | 386535 | 5357010 | | 60 | 520 | 320 | 7 | <1 | 4.68 | 1550 | 500 | 750 | 5 | as above with Fe staining (weak) |
| 58 | 386880 | 5356535 | | 50 | 1600 | 550 | 5 | 5 | 6.60 | 3600 | 2200 | 350 | 5 | Wallrock south of old cutting - no sulphide |
| 59 | " | " | | 20 | 640 | 230 | 3 | 1 | 4.58 | 1600 | 660 | 250 | 3 | from old working north of Lake Dora - no sulphide |
| 60 | " | " | | 55 | 2800 | 960 | 5 | 5 | 6.00 | 3600 | 2600 | 320 | <3 | unmineralized damp material from old working |
| 61 | 386760 | 5356410 | | 190 | 720 | 450 | 8 | 320 | 12.4 | 1900 | 830 | 530 | 10 | Siliceous Chloritic pyritic tuff minor Chy → galena |
| 62 | " | " | | 520 | 1000 | 1160 | 6 | 70 | 11.5 | 4000 | 930 | 650 | 10 | - - - with galena → Chy |
| 63 | " | " | | 180 | 1520 | 2000 | 4 | 44 | 11.2 | 4000 | 1400 | 480 | 3 | - - - - - |
| 64 | 386645 | 5356620 | | 960 | 190 | 320 | 5 | 110 | 12.2 | 1800 | 210 | 1750 | 15 | - - - tuff with wispy stringers of pyrite & Chy |
| 65 | " | " | | 1280 | 130 | 230 | 7 | 160 | 9.60 | 1600 | 136 | 1750 | 60 | - - - tuff - - - - - |
| 66 | " | " | | 90 | 40 | 300 | 1 | 9. | 10.00 | 2800 | 48 | 1100 | <3 | mostly vein quartz with chlorite - often with comb texture |

| | | | | | | | | | | | |
|-------------------|---|---|---|-------|---|------|---|---|------|------|-------|
| DETECTION LIMIT | 2 | 5 | 2 | 1 | 1 | 0.01 | 5 | 4 | 10 | 3 | |
| ANALYTICAL METHOD | ← | | | ICSSA | | → | | | XRF1 | XRF1 | BM205 |

| | | | |
|---|---------------------|------------|-----------------------|
| Project : Dora Sampling | 1 : 250 000 Sheet : | AMG Zone : | Sheet No. : |
| Tenement : LAKE MARGARET (E.L. 5/85) | DPO's : | | Laboratory : |
| Area / Prospect : N. end Lake Dora area | | | Collected By : Date : |

CRA EXPLORATION PTY. LTD.

883035

034

| SAMPLE NUMBER | LOCATION | | Sample Type | ANALYSES | | | | | | | | Geological Observations | |
|-------------------|---|----------|----------------|----------|-------|-----|-------|-----|------|------|--------|---|----------------|
| | Easting | Northing | | Cu | Pb | Zn | Ag | As | Fe % | Mn | Am ppm | | |
| | | | | | | | | | | | | | |
| 1055621 | | | ↑ | 2050 | 20 | 90 | 3 | 9 | 6.02 | 210 | 0.06 | Hot horizon rocks including magnetite rock and sediments | |
| 1055622 | Collected from workings at 382440E 5365350N | | Bank Rock Chip | 1.29% | 10 | 75 | 5 | 5 | 4.95 | 240 | 0.20 | Quartz rich sample; quartz veining through the magnetite rock; sulphidic. | |
| 1055623 | | | | 7.20% | 130 | 230 | 25 | 580 | 26.2 | - | 0.94 | Banded sulphidic sample of semi-massive to massive sulphides, dominantly pyrite | |
| 1154950 | | | | ↓ | 6.40% | 290 | 195 | 37 | 760 | 23.5 | - | 2.48 | As for 1055623 |
| DETECTION LIMIT | | | | 2 | 5 | 2 | 1 | 1 | 0.01 | 5 | 0.01 | | |
| ANALYTICAL METHOD | | | | ← | | | ICS80 | → | | | PM 209 | | |

| | | |
|--|--|--|
| Project : <u>QUEENSTOWN - ZEEHAN</u> | 1 : 250 000 Sheet : <u>QUEENSTOWN</u> AMG Zone : | Sheet No. : <u>1/1</u> |
| Tenement : <u>LAKE MARGARET ELS/85</u> | DPO's : <u>32030</u> | Laboratory : <u>ALS BRISBANE</u> |
| Area / Prospect : <u>RED HILLS</u> | | Collected By : <u>SIC - TYS</u> Date : <u>MAY 1986</u> |

883036

035

CRA EXPLORATION PTY. LTD.

| SAMPLE NUMBER | LOCATION | | Sample Type | ANALYSES | | | | | | | | Geological Observations |
|-------------------|----------|----------|----------------|----------|-----|-----|-------|------|------|------|--------|--|
| | Easting | Northing | | Cu | Pb | Zn | Ag | As | Fe % | Mn | Au ppm | |
| 1055624 | 380235 | 5365550 | ↑ Rock ↓ | 330 | 280 | 85 | 2 | 65 | 2.45 | 240 | <0.01 | All samples are from the mapped shale horizon at Red Hills prospect. The samples are bulked rock chips collected along traverses at approximately 200m spacings. Rocks consist of dark grey to black shale which is often pyritic and occasionally silicified. |
| 625 | 380255 | 5365450 | | 40 | 390 | 140 | 2 | 30 | 4.61 | 590 | 0.01 | |
| 626 | 380310 | 5365230 | | 65 | 310 | 30 | 1 | 24 | 1.28 | 50 | 0.01 | |
| 627 | 380330 | 5365035 | | 60 | 640 | 125 | 2 | 38 | 6.65 | 990 | 0.01 | |
| 628 | 380350 | 5364850 | | 80 | 165 | 55 | 2 | 240 | 3.37 | 330 | 0.01 | |
| 629 | 380380 | 5364850 | | 15 | 115 | 185 | 1 | 17 | 4.50 | 2450 | 0.01 | |
| 630 | 380250 | 5364290 | | 40 | 105 | 45 | 1 | 13 | 1.65 | 95 | <0.01 | |
| 631 | 380250 | 5364290 | | 30 | 260 | 90 | 1 | 42 | 2.65 | 320 | <0.01 | |
| 632 | 380300 | 5364110 | | 30 | 320 | 80 | 1 | 40 | 2.47 | 430 | 0.03 | |
| 633 | 380300 | 5364110 | | 20 | 430 | 240 | 2 | 22 | 4.85 | 1300 | <0.01 | |
| 634 | 380350 | 5363900 | | 35 | 380 | 95 | 1 | 15 | 4.67 | 1100 | <0.01 | |
| 635 | 380350 | 5363900 | | 25 | 300 | 390 | 2 | 10 | 3.14 | 1100 | 0.04 | |
| 636 | 380275 | 5364640 | | 40 | 120 | 40 | 1 | 26 | 1.32 | 50 | 0.01 | |
| 637 | 380350 | 5364560 | | 30 | 120 | 90 | 1 | 17 | 4.73 | 280 | <0.01 | |
| 638 | 380400 | 5363700 | | 50 | 360 | 50 | 2 | 26 | 2.37 | 580 | 0.01 | |
| 639 | 380400 | 5363700 | 100 | 2300 | 370 | 3 | 32 | 4.17 | 530 | 0.01 | | |
| DETECTION LIMIT | | | | 2 | 5 | 2 | 1 | 1 | 0.01 | 5 | 0.01 | 1055637 (Full element analysis) |
| ANALYTICAL METHOD | | | | ← | | | IC580 | → | | | PM209 | |

| | | | |
|--|--------------------------------|------------|--|
| Project : QUEENSTOWN - ZEEHAN | 1 : 250 000 Sheet : QUEENSTOWN | AMG Zone : | Sheet No. : 1/1 |
| Tenement : LAKE MARGARET EL 5/85 | DPO's : 32029 | | Laboratory : ALS |
| Area / Prospect : RED HILLS SHALE HORIZON - ROCK CHIP SAMPLING | | | Collected By : SIC & TVS Date : MAY 1985 |

883037

036

CRA EXPLORATION PTY. LTD.

| SAMPLE NUMBER | LOCATION | | Sample Type | ANALYSES | | | | | | | | | | Geological Observations |
|-------------------|----------|----------|--------------------|----------|------|-----|----|-------|------|-----|----------|---|-------|--|
| | Easting | Northing | | Cu | Pb | Zn | Ag | As | Fe % | Mn | Au ppb | | | |
| | | | | | | | | | | | | | | |
| 1154551 | 382 820 | 5365 780 | Outcrop Rock chib. | 80 | <5 | 115 | 2 | <1 | 12.8 | 580 | 3 | | | chloritized volcanic with some vein qtz + magnetite |
| 52 | 382 815 | 5365 860 | - | 10 | 15 | 90 | 1 | 125 | 10.7 | 480 | <3 | | | - - schist - vein hyrite (2%) |
| 53 | 382 795 | 5365 830 | - | 40 | 15 | 100 | 2 | 75 | 12.1 | 410 | <3 | | | vein hyrite within chloritized volcanic, often schistose |
| 54 | 382 795 | 5365 830 | vein chib/strand | 120 | 30 | 60 | 2 | 315 | 15.9 | 180 | <3 | | | chib sample of vein hyrite |
| 55 | 382 775 | 5365 855 | Outcrop Rock chib. | 45 | <5 | 100 | 2 | <1 | 22.4 | 510 | <3 | | | chloritized volcanic with magnetite plus vein hyrite |
| 56 | 382 745 | 5365 860 | - | 135 | <5 | 60 | 2 | 84 | 16.4 | 410 | <3 | | | - - - vein hyrite |
| 57 | 382 715 | 5365 875 | - | 110 | <5 | 75 | 2 | 2 | 18.1 | 210 | <3 | | | strongly hyritic fractured zone in chloritized volcanic qtz. |
| 58 | 382 685 | 5365 870 | - | 155 | <5 | 115 | 2 | 2 | 17.9 | 230 | <3 | | | strongly hyritic ductile fracture zone with vein qtz within chloritized volcanic |
| 59 | 382 660 | 5365 855 | - | 110 | 210 | 160 | 2 | 5 | 15.1 | 250 | <3 | | | hyritic fractures in locally cleaved & brecciated chloritized volcanic |
| 60 | 382 635 | 5365 835 | - | 140 | 145 | 110 | 2 | 3 | 15.1 | 200 | <3 | | | chloritized volcanic with hyritic fractures containing quartz |
| 61 | 382 620 | 5365 840 | streak grab | 215 | <5 | 50 | 3 | 4 | 37.1 | 30 | 40 | | | oxidized block of chloritized volcanic |
| 62 | 382 610 | 5365 815 | Rock chib | 270 | 1100 | 130 | 4 | 25 | 14.2 | 215 | 20 | | | chloritized volcanic with hyritic fractures |
| 63 | 382 610 | 5365 865 | streak grab | 425 | 270 | 25 | 5 | <1 | 25.2 | 35 | 30 | | | 30% hyrite in vein quartz |
| 64 | 382 590 | 5365 870 | Rock chib outcrop | 415 | 60 | 180 | 2 | 12 | 12.0 | 350 | 65 | | | minor hyrite in fracture zone of now less chloritized volcanic |
| 65 | 382 560 | 5365 875 | - | 135 | 5 | 110 | 2 | 2 | 8.03 | 215 | <3 | | | - - - - - |
| 66 | 382 525 | 5365 900 | - | 125 | <5 | 130 | 2 | <1 | 11.1 | 230 | <3 | | | chloritized fractured volcanic with hyrite in fractures and magnetite prominent |
| 67 | 382 540 | 5365 920 | - | 3050 | <5 | 150 | 3 | 3 | 10.8 | 325 | 155 | | | " " hydroelastic with some hyritic fractures |
| 68 | 382 445 | 5365 925 | Rock chib & emb. | - | <5 | 240 | - | 395 | 39.6 | 180 | 1.44 ppb | | | Massive sulphide (ch/ny) from adit IN, Red Hills |
| 69 | 382 545 | 5365 890 | Rock chib outcrop | 4350 | 120 | 95 | 3 | 6 | 13.0 | 285 | 270 | | | chloritized fractured volcanic with hyrite and magnetite |
| 1154570 | 382 940 | 5365 715 | streak chib | 850 | <5 | 80 | 2 | <1 | 35.7 | 275 | 15 | | | hyrite, haematite & magnetite rich chloritic tuff |
| DETECTION LIMIT | | | | 2 | 5 | 2 | 1 | 1 | 0.01 | 5 | 0.01 | | | |
| ANALYTICAL METHOD | | | | ← | | | | 16580 | | | | → | PM205 | |

Project: Lake Margaret (Queenstown - Zeehan)

1:250 000 Sheet: Queenstown

AMG Zone:

Sheet No.: 1/3

Tenement: E.U. 5/85

DPO's 31971

Laboratory: ALS BRISBANE

Area / Prospect: Red Hills

Collected By: Bill Sheppard Date 15/7/86

883038

037

CRA EXPLORATION PTY. LTD.

| SAMPLE NUMBER | LOCATION | | Sample Type | ANALYSES | | | | | | | | | | Geological Observations |
|-------------------|----------|-----------|------------------------|----------|----|-----|-------|----|------|-----|--------|--|--|-------------------------|
| | Easting | Northing | | Cu | Pb | Zn | Ag | As | Fe % | Mn | Au ppb | | | |
| | | | | | | | | | | | | | | |
| 1154571 | 382 915 | 5 365 730 | outcrop and creek bank | 130 | 10 | 105 | 1 | <1 | 106 | 510 | <3 | | Chloritic haematized tuff with minor hyalite + silicification. | |
| 72 | 382 890 | 5 365 745 | " | 115 | 20 | 135 | 1 | <1 | 131 | 590 | <3 | | - - - - - | |
| 73 | 382 875 | 5 365 765 | " | 170 | 35 | 85 | 1 | 9 | 672 | 370 | <3 | | - - - - - | |
| 74 | 382 850 | 5 365 775 | " | 275 | 10 | 75 | 1 | 16 | 706 | 335 | <3 | | - - - - - | |
| 75 | 382 845 | 5 365 460 | " | 190 | <5 | 55 | <1 | 16 | 100 | 110 | <3 | | Weakly chloritic acid hydroclastic and rhyolite | |
| 76 | 382 855 | 5 365 440 | " | 230 | <5 | 110 | 1 | <1 | 7.23 | 155 | <3 | | - - - - - | |
| 77 | 382 850 | 5 365 520 | " | 120 | 10 | 160 | 1 | 4 | 8.44 | 260 | <3 | | - - - - - | |
| 78 | 382 835 | 5 365 550 | " | 165 | <5 | 115 | 1 | <1 | 7.29 | 190 | <3 | | - - - - - | |
| 79 | 382 835 | 5 365 570 | " | 145 | <5 | 135 | 1 | <1 | 7.42 | 280 | <3 | | Becoming more chloritic - hydroclastic and rhyolite(?) | |
| 80 | 382 825 | 5 365 600 | " | 135 | <5 | 130 | 1 | <1 | 7.00 | 270 | 5 | | - - - - - | |
| 81 | 382 820 | 5 365 626 | " | 145 | 20 | 100 | 1 | 11 | 7.08 | 310 | 20 | | - - - - - | |
| 82 | 382 850 | 5 365 635 | " | 50 | <5 | 155 | 1 | <1 | 8.57 | 645 | 15 | | - - - - - vein qtz. common | |
| 83 | 382 855 | 5 365 665 | " | 75 | <5 | 135 | 1 | <1 | 5.09 | 390 | 5 | | - - - - - | |
| 84 | 382 815 | 5 365 690 | " | 140 | 40 | 165 | 1 | 49 | 9.59 | 515 | 20 | | Pyritic rhyolite | |
| 85 | 382 835 | 5 365 710 | " | 70 | <5 | 90 | 1 | 6 | 9.39 | 325 | <3 | | Chloritic volcanic | |
| 86 | 382 825 | 5 365 735 | " | 155 | 15 | 155 | 1 | 83 | 10.7 | 535 | 5 | | - - - - - | |
| 87 | 382 830 | 5 365 760 | " | 75 | 15 | 135 | 1 | 12 | 6.20 | 520 | <3 | | - - - - - | |
| 88 | 382 445 | 5 365 925 | flank from dump | 1400 | <5 | 135 | 1 | 3 | 6.02 | 415 | 65 | | Vein quartz associated sulphides | |
| 89 | 382 445 | 5 365 925 | " | 1050 | <5 | 120 | 2 | 11 | 9.02 | 370 | 30 | | Magnetite-chlorite host rock with minor sulphides | |
| 1154590 | 382 445 | 5 365 925 | " | 1200 | <5 | 100 | 1 | 3 | 7.94 | 210 | 20 | | - - - - - | |
| DETECTION LIMIT | | | | 2 | 5 | 2 | 1 | 1 | 0.01 | 5 | 3 | | | |
| ANALYTICAL METHOD | | | | ← | | | IC580 | → | | | Pm205 | | | |

Project : Lake Margaret (Queenstown - Zeehan)

1 : 250 000 Sheet : Queenstown

AMG Zone :

Sheet No. : 2/3

Tenement : E.L. 5/85

DPO's : 31971

Laboratory : ALS BRISBANE

Area / Prospect Red Hills

Collected By Bill Shelton Date 15/7/86

CRA EXPLORATION PTY. LTD.

883039

038

| SAMPLE NUMBER | LOCATION | | | Sample Type | ANALYSES | | | | | | | | | Geological Observations |
|-------------------|----------|-----------|------|-------------|----------|----|-----|-------|------|---------|--------|--------|--|-------------------------|
| | Easting | Northing | Cu | | Pb | Zn | Ag | As | Fe % | Mn | Au ppb | Pb ppm | Ba ppm | |
| | | | | | | | | | | | | | | |
| 1154591 | 382 675 | 5 365 350 | 130 | <5 | 80 | 1 | 10 | 14.9 | 160 | 35 | | | moderately chloritic hydroclastic; siliceous + ferruginous. | |
| 92 | 382 700 | 5 365 325 | 155 | 5 | 80 | 1 | 1 | 160 | 105 | 680 | | | - - - - - | |
| 93 | 382 445 | 5 365 925 | 4150 | 390 | 115 | 15 | 570 | 20.7 | 150 | 2.0 ppm | | | Rotten massive hyrite, siliceous hornhyry, chloritized volcanic locally magnetic | |
| 94 | 382 650 | 5 365 250 | 110 | 15 | 70 | 1 | 10 | 8.07 | 80 | 100 | | | weakly chloritized hornhyry some Fe oxide in fractures | |
| 95 | 382 770 | 5 365 220 | 350 | 10 | 45 | 2 | 10 | 7.04 | 55 | 40 | | | " " " (hydroclastic?), no mineral noted | |
| 96 | 382 730 | 5 365 230 | 125 | 5 | 85 | <1 | 12 | 5.03 | 210 | 10 | | | " " " " " " " " " " " " | |
| 98 | 382 560 | 5 365 235 | 220 | <5 | 55 | 1 | 56 | 6.65 | 360 | 10 | | | chloritized hornhyritic volcanic, trace of hyrite | |
| 99 | 382 560 | 5 365 235 | 110 | <5 | 65 | <1 | 3 | 4.65 | 470 | <3 | | | - - - - - | |
| 1154600 | 382 710 | 5 365 300 | 125 | <5 | 55 | <1 | <1 | 4.47 | 160 | 5 | | | Moderately chloritic hydroclastic; siliceous + ferruginous. | |
| 1198943 | 382435 | 5364155 | 150 | 455 | 930 | 8 | 290 | 6.25 | 1850 | 35 | 420 | 710 | chloritic tuff with disseminated yellow sulphides | |
| 44 | " | " | 10 | 30 | 50 | 1 | 9 | 3.29 | 590 | <3 | 24 | 60 | Complex vein quartz, no sulphides | |
| 45 | " | " | 780 | 50 | 405 | 3 | 40 | 10.3 | 405 | 20 | 52 | 60 | " " " with assoc. chlorite + minor chy. | |
| DETECTION LIMIT | | | | | 2 | 5 | 2 | 1 | 1 | 0.01 | 5 | 3 | 4 | 10 |
| ANALYTICAL METHOD | | | | | ← | | | 16580 | → | | | P1205 | XRF1 | XRF1 |

Project : Lake Margaret (Queenstown - Zeehan) 1 : 250 000 Sheet : Queenstown AMG Zone : Sheet No. : 3/3
 Tenement : EL 5/85 DPO's : 31971 32053 Laboratory : ALS BRISBANE
 Area / Prospect : Red Hills Collected By : Bill Shephard Date : 15/7/86

883040

039

CRA EXPLORATION PTY. LTD.

| SAMPLE NUMBER | LOCATION | | Sample Type | ANALYSES | | | | | | | | Geological Observations |
|-------------------|----------|----------|-------------|----------|-----|-----|-------|------|------|-------|-------|--|
| | Easting | Northing | | Cu | Pb | Zn | Ag | As | Fe | Mn | Au | |
| | | | | | | | | | | | | |
| 1154928 | 382185 | 5365750 | Rock Chip | 20 | 50 | 5 | <1 | 7 | 0.53 | 30 | <0.01 | All samples are from the mapped siliceous zone at Red Hills prospect. The samples are bulked rock chips collected across the siliceous zone at 100m intervals. The rocks sampled vary from acid dyalites to intermediate tuffs, some have a brecciated texture and a foliation is evident throughout the zone. The rocks are weakly silicified in relation to the surrounding rocks however coarse quartz veins are present (possibly dehydrating features). There are iron rich patches throughout the zone but overall the unit appears to be iron poor. |
| 1154929 | 382150 | 5365850 | | 10 | 65 | 195 | <1 | 10 | 1.36 | 360 | <0.01 | |
| 930 | 382160 | 5365850 | | 10 | 95 | 510 | <1 | 9 | 2.28 | 2050 | <0.01 | |
| 931 | 382140 | 5365950 | | 5 | 20 | 65 | <1 | 5 | 1.50 | 160 | <0.01 | |
| 932 | 382115 | 5365950 | | 10 | 15 | 115 | <1 | 7 | 2.56 | 830 | <0.01 | |
| 933 | 382100 | 5366050 | | 10 | 15 | 60 | <1 | 4 | 2.14 | 680 | <0.01 | |
| 934 | 382120 | 5366050 | | 2 | 15 | 35 | <1 | 6 | 1.26 | 545 | <0.01 | |
| 935 | 382140 | 5366050 | | 30 | 155 | 30 | <1 | 7 | 0.93 | 335 | <0.01 | |
| 936 | 382120 | 5366150 | | 5 | 30 | 60 | <1 | 9 | 1.60 | 460 | <0.01 | |
| 937 | 382110 | 5366150 | | 15 | 25 | 85 | <1 | 7 | 2.29 | 175 | <0.01 | |
| 938 | 382095 | 5366150 | | 5 | 40 | 80 | <1 | 4 | 1.94 | 435 | <0.01 | |
| 939 | 382095 | 5366250 | | 10 | 25 | 50 | <1 | 4 | 2.46 | 155 | <0.01 | |
| 940 | 382110 | 5366250 | | 10 | 20 | 45 | <1 | 5 | 1.4 | 285 | <0.01 | |
| 941 | 382125 | 5366250 | | 10 | 40 | 65 | <1 | 4 | 1.66 | 385 | <0.01 | |
| 942 | 382095 | 5366350 | | 15 | 10 | 30 | <1 | 9 | 0.99 | 150 | <0.01 | |
| 943 | 382110 | 5366350 | | 5 | 20 | 45 | <1 | 9 | 0.69 | 110 | <0.01 | |
| 944 | 382130 | 5366350 | | 5 | 20 | 75 | <1 | 7 | 1.49 | 310 | <0.01 | |
| 946 | 382090 | 5366445 | | 15 | 55 | 60 | <1 | 7 | 1.46 | 225 | <0.01 | |
| 947 | 382125 | 5366445 | 5 | 55 | 220 | <1 | 6 | 1.44 | 760 | <0.01 | | |
| 948 | 382110 | 5366525 | 10 | 30 | 160 | <1 | 5 | 1.57 | 760 | <0.01 | | |
| DETECTION LIMIT | | | | 2 | 5 | 2 | 1 | 1 | 0.01 | 5 | 0.01 | |
| ANALYTICAL METHOD | | | | ← | | | IC580 | → | | | PM209 | |

| | | | |
|---|-------------------------------|------------|--|
| Project : QUEENSTOWN - ZEEHAN. | 1: 250 000 Sheet : QUEENSTOWN | AMG Zone : | Sheet No. : 1/1 |
| Tenement : LAKE MARGARET EL 5/85 | DPO's : 32028 | | Laboratory : ALS BRISBANE |
| Area / Prospect : RED HILLS SILICEOUS ZONE - ROCK CHIP SAMPLING | | | Collected By : SJC + TJS Date : MAY 1986 |

CRA EXPLORATION PTY. LTD.

883041

040

| SAMPLE NUMBER | LOCATION | | Sample Type | ANALYSES | | | | | | | | | Geological Observations | | |
|------------------------------------|----------|----------|-------------|--------------------------------|-----|-------|------|------------|----|------|------|--|--|--|--|
| | Easting | Northing | | Cu | Pb | Zn | Fe % | As | Ag | Mn. | Ba. | Au ppb | | | |
| | | | | | | | | | | | | | | | |
| 1232501 | 380040 | 5358430 | o/c dike | 270 | 8 | 115 | 9.27 | <1 | 4 | 720 | 1150 | 3 | gouge from fracture zone + bleached wall rock | | |
| 02 | " | " | - | 70 | 12 | 35 | 4.92 | <1 | 2 | 530 | 360 | <3 | Epidote rich intermediate volcanic + qtz-epidote veining | | |
| 03 | " | " | float grab | 5 | 8 | 35 | 2.63 | <1 | 1 | 300 | 860 | <3 | massive green chloritic volcanic (intermediate) | | |
| 04 | " | " | - | 15 | 68 | 60 | 2.98 | 2 | 1 | 380 | 610 | <3 | - - - - | | |
| 05 | " | " | - | 10 | 20 | 60 | 4.50 | 2 | 1 | 510 | 510 | <3 | - - - - | | |
| 06 | " | " | o/c grab | 45 | 16 | 90 | 3.49 | 1 | 1 | 310 | 220 | <3 | Fe stained vein quartz. | | |
| 07 | " | " | o/c chip | 40 | 60 | 120 | 5.12 | 50 | 2 | 570 | 990 | <3 | hyalitic (?) laminated tuff horizon | | |
| 08 | 380180 | 5358435 | o/c grab | 20 | 16 | 105 | 8.48 | <1 | 3 | 1500 | 1100 | <3 | Intermediate volcanic rock | | |
| 09 | " | " | - | 150 | 160 | 30 | 3.41 | 40 | 2 | 100 | 1950 | 10 | Sheared sericitic interval with quartz veining | | |
| 1232510 | 380400 | 5358180 | - | 25 | 12 | 100 | 3.20 | <1 | 1 | 270 | 2200 | <3 | Chloritic intermediate volcanic rock | | |
| 11 | 380425 | 5358165 | - | 115 | 92 | 185 | 9.40 | 38 | 4 | 730 | 2150 | <3 | - - - - | | |
| 12 | 380445 | 5358155 | - | 50 | 152 | 160 | 3.99 | 20 | 2 | 360 | 1950 | <3 | - - - - | | |
| 13 | 380650 | 5357990 | o/c channel | 25 | 32 | 105 | 7.18 | 8 | 3 | 430 | 460 | <3 | Costean No. 4 humble soft mineralized unit 30-35m | | |
| 14 | " | " | - | 80 | 60 | 45 | 5.84 | <1 | 3 | 420 | 730 | 3 | - - - - 27-30m | | |
| 15 | 380655 | 5357695 | o/c grab | 35 | 240 | 300 | 10.2 | 18 | 3 | 2450 | 620 | 5 | Chloritic intermediate volcanic rock. | | |
| 16 | 380665 | 5357590 | - | 25 | 48 | 175 | 4.18 | 2 | 2 | 720 | 1200 | 3 | - - - - | | |
| 17 | " | " | - | 20 | 92 | 210 | 6.34 | 5 | 2 | 270 | 1350 | 3 | - - - - | | |
| 18 | 380650 | 5357510 | - | 95 | 660 | 180 | 6.60 | 42 | 2 | 870 | 1650 | 10 | - - - - mineralized? | | |
| 19 | " | " | - | 190 | 390 | 105 | 7.29 | 32 | 3 | 430 | 800 | 5 | - - - - ? | | |
| 1232520 | 380780 | 5357440 | o/c chip | 50 | 80 | 140 | 6.46 | 11 | 2 | 830 | 1450 | 3 | hyalitic fragmental intermediate volcanic rock | | |
| DETECTION LIMIT | | | | 2 | 4 | 2 | 0.01 | 1 | | | | | | | |
| ANALYTICAL METHOD | | | | IC580 | XRF | IC580 | - | - | | | | | | | |
| Project : Queenstown - Zeehan | | | | 1 : 250 000 Sheet : Queenstown | | | | AMG Zone : | | | | Sheet No. : | | | |
| Tenement : Lake Margaret E.L. 5/85 | | | | DPO's : 31998 | | | | | | | | Laboratory : A.L.S. | | | |
| Area / Prospect : Howards Anomaly | | | | | | | | | | | | Collected By : Bill Sheppard Chris Knight Date : 26/10/86 | | | |

042

883043

APPENDIX 4

GEOCHEMICAL LEDGERS - DRILLCORE RESAMPLING

RED HILLS AND HOWARDS PROSPECTS

883044

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 090

TENEMENT NAME LAKE MARGARET No. EL 5/RS

PLAN - MAP REFERENCE BURNIE SK55-5

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. HA 7

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 31987

| DEPTH | | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | Au ppb PM205 | Au ppb check | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by ALS (BRIS).....) | | | | | | | | | |
|----------|--------|---------------|-----------|-------------|------------------|-----------------|-----------------|---|------------|----------|--------|---------|--|----------|--------|----------|----------|----------|------------|----------|--------|--|
| From (M) | To (M) | | | | | | | | | | | | Cu IC580 | Pb IC580 | Pb XRF | Zn IC580 | Ag IC580 | As IC580 | Fe % IC580 | Mn IC580 | Ba XRF | |
| | | | | | | <3 | | | 1230003 | 1 | 4 | | 70 | 35 | 40 | 110 | 2 | 22 | 4.91 | 850 | 660 | |
| | | | | | | <3 | | | 4 | 4 | 7 | | 70 | 30 | 32 | 75 | 2 | 16 | 6.25 | 510 | 460 | |
| | | | | | | <3 | | | 5 | 7 | 10 | | 80 | 35 | 32 | 125 | 3 | 15 | 6.21 | 820 | 720 | |
| | | | | | | <3 | | | 6 | 10 | 13 | | 90 | 25 | 20 | 105 | 2 | 10 | 5.10 | 1250 | 630 | |
| | | | | | | <3 | | | 7 | 13 | 16 | | 65 | 25 | 28 | 135 | 2 | 10 | 4.99 | 1500 | 750 | |
| | | | | | | <3 | | | 8 | 16 | 19 | | 45 | 25 | 24 | 155 | 2 | 6 | 5.51 | 1000 | 660 | |
| | | | | | | <3 | | | 9 | 19 | 22 | | 35 | 25 | 28 | 195 | 3 | 6 | 5.17 | 960 | 940 | |
| | | | | | | <3 | | | 10 | 22 | 25 | | 70 | 30 | 32 | 165 | 11 | 5 | 7.43 | 440 | 1400 | |
| | | | | | | <3 | | | 11 | 25 | 28 | | 100 | 25 | 20 | 130 | 2 | 7 | 5.05 | 290 | 1300 | |
| | | | | | | <3 | | | 12 | 28 | 31 | | 30 | 25 | 24 | 130 | 1 | 6 | 5.73 | 500 | 1200 | |
| | | | | | | <3 | | | 13 | 31 | 34 | | 30 | 20 | 28 | 110 | 1 | 5 | 5.03 | 520 | 1100 | |
| | | | | | | <3 | | | 14 | 34 | 37 | | 20 | 20 | 20 | 135 | 3 | 4 | 5.84 | 630 | 990 | |
| | | | | | | <3 | | | 15 | 37 | 40 | | 35 | 25 | 24 | 165 | 2 | 4 | 5.51 | 690 | 1250 | |
| | | | | | | <3 | | | 16 | 40 | 43 | | 30 | 30 | 24 | 200 | 4 | 3 | 5.78 | 690 | 1350 | |
| | | | | | | <3 | | | 17 | 43 | 46 | | 35 | 20 | 20 | 195 | 2 | 3 | 5.42 | 620 | 2050 | |
| | | | | | | <3 | | | 18 | 46 | 49 | | 25 | 20 | 24 | 180 | 2 | 55 | 6.32 | 1200 | 1700 | |
| | | | | | | <3 | | | 19 | 49 | 52 | | 30 | 30 | 28 | 190 | 2 | 8 | 6.12 | 600 | 1700 | |
| | | | | | | 20 | 20 | | 20 | 52 | 55 | | 720 | 580 | 490 | 180 | 4 | 36 | 2.93 | 450 | 1950 | |
| | | | | | | <3 | | | 21 | 55 | 58 | | 55 | 35 | 36 | 175 | 2 | 9 | 3.73 | 1200 | 2050 | |
| | | | | | | 3 | | | 22 | 58 | 61 | | 80 | 30 | 24 | 220 | 2 | 6 | 4.19 | 1300 | 2000 | |
| | | | | | | <3 | | | 23 | 61 | 64 | | 50 | 15 | 12 | 170 | 3 | 2 | 3.66 | 2100 | 1850 | |
| | | | | | | <3 | | | 24 | 64 | 67 | | 50 | 20 | 12 | 160 | 2 | 9 | 2.84 | 2500 | 2900 | |
| | | | | | | <3 | | | 25 | 67 | 70 | | 15 | 15 | 12 | 145 | 1 | 4 | 5.07 | 2750 | 2950 | |
| | | | | | | <3 | | | 26 | 70 | 73 | | 10 | 15 | 12 | 170 | 2 | 2 | 6.11 | 2350 | 1750 | |
| | | | | | | <3 | | | 27 | 73 | 76 | | 45 | 30 | 16 | 240 | 3 | 4 | 6.89 | 750 | 1650 | |
| | | | | | | <3 | | | 28 | 76 | 79 | | 25 | 20 | 12 | 200 | 2 | 5 | 3.53 | 3500 | 2350 | |
| | | | | | | <3 | | | 29 | 79 | 82 | | 35 | 15 | 8 | 320 | 1 | 5 | 5.45 | 2550 | 2650 | |
| | | | | | | <3 | | | 30 | 82 | 85 | | 10 | 10 | 12 | 165 | 2 | 6 | 4.16 | 1900 | 5850 | |
| | | | | | | 25 | 30 | | 31 | 85 | 88 | | 145 | 310 | 650 | 3050 | 2 | 42 | 4.39 | 1300 | 5300 | |
| | | | | | | 5 | | | 32 | 88 | 91 | | 65 | 25 | 48 | 150 | 2 | 30 | 3.94 | 1350 | 4100 | |
| | | | | | | <3 | | | 33 | 91 | 94 | | 80 | 20 | 24 | 290 | 2 | 7 | 3.86 | 2700 | 1900 | |

883045

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 2

TENEMENT NAME... LAKE MARGARET No. E.L. 5/85

PLAN - MAP REFERENCE... BURNIE SK55-5 01A

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. HA7

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 31987

| DEPTH To (M) | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | Au ppb PM205 | Au ppb CHECK | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by ALS (BRIS.)) | | | | | | | | | |
|-----------------|---------------------|--------------|----------------|------------------|--------------------|--------------------|---|---------------|-------------|-----------|------------|--|------------------|----------------|------------------|------------------|------------------|------------------|------------------|----------------|--|
| | | | | | | | | | | | | Cu % IC580 | Pb % IC580 | Pb % XRF | Zn % IC580 | Ag % IC580 | As % IC580 | Fe % IC580 | Mn % IC580 | Ba % XRF | |
| <3 | | | | | | | | 34 | 94 | 97 | | 55 | 30 | 24 | 195 | 2 | 22 | 4.08 | 3200 | 2700 | |
| <3 | | | | | | | | 35 | 97 | 100 | | 90 | 20 | 20 | 180 | 1 | 28 | 3.50 | 3150 | 2250 | |
| <3 | | | | | | | | 36 | 100 | 103 | | 95 | 45 | 52 | 220 | 2 | 55 | 2.75 | 2300 | 2450 | |
| 3 | | | | | | | | 37 | 103 | 106 | | 135 | 85 | 100 | 330 | 2 | 80 | 2.89 | 1100 | 2100 | |
| <3 | | | | | | | | 38 | 106 | 109 | | 140 | 170 | 220 | 690 | 4 | 70 | 2.71 | 920 | 2150 | |
| 5 | | | | | | | | 39 | 109 | 112 | | 110 | 60 | 112 | 310 | 4 | 75 | 5.83 | 1650 | 4100 | |
| <3 | | | | | | | | 40 | 112 | 115 | | 150 | 30 | 480 | 300 | 12 | 60 | 4.01 | 2650 | 5.77% | |
| <3 | | | | | | | | 41 | 115 | 118 | | 155 | 115 | 480 | 2950 | 18 | 60 | 6.02 | 4.71% | 1.57% | |
| <3 | | | | | | | | 42 | 118 | 121 | | 40 | 65 | 280 | 4500 | 6 | 55 | 5.23 | 7.45% | 1.48% | |
| <3 | | | | | | | | 43 | 121 | 124 | | 40 | 350 | 320 | 2100 | 6 | 26 | 6.01 | 4.17% | 4.55% | |
| <3 | | | | | | | | 44 | 124 | 127 | | 35 | 200 | 188 | 820 | 4 | 22 | 8.43 | 2.52% | 4.05% | |
| <3 | | | | | | | | 45 | 127 | 130 | | 75 | 70 | 88 | 600 | 10 | 18 | 10.0 | 2.31% | 9100 | |
| <3 | | | | | | | | 46 | 130 | 133 | | 20 | 45 | 44 | 780 | 3 | 12 | 6.69 | 1.53% | 3350 | |
| <3 | | | | | | | | 47 | 133 | 136 | | 30 | 65 | 48 | 450 | 3 | 15 | 3.96 | 1.23% | 3950 | |
| <3 | | | | | | | | 48 | 136 | 139 | | 40 | 175 | 136 | 790 | 3 | 11 | 5.76 | 1.22% | 3950 | |
| <3 | | | | | | | | 49 | 139 | 142 | | 20 | 40 | 20 | 480 | 2 | 10 | 4.27 | 8500 | 4.25% | |
| <3 | | | | | | | | 50 | 142 | 145 | | 20 | 230 | 210 | 820 | 4 | 11 | 7.77 | 2.50% | 3050 | |
| <3 | | | | | | | | 51 | 145 | 148 | | 50 | 370 | 680 | 1150 | 4 | 30 | 5.68 | 1.70% | 1.12% | |
| <3 | | | | | | | | 52 | 148 | 151 | | 35 | 65 | 56 | 640 | 2 | 7 | 4.91 | 1.45% | 4850 | |
| <3 | | | | | | | | 53 | 151 | 154 | | 30 | 30 | 28 | 270 | 2 | 11 | 2.63 | 7250 | 3450 | |
| <3 | | | | | | | | 54 | 154 | 157 | | 45 | 30 | 24 | 370 | 2 | 9 | 3.25 | 3050 | 2600 | |
| <3 | | | | | <3 | | | 55 | 157 | 160 | | 50 | 25 | 28 | 210 | 2 | 46 | 4.17 | 2950 | 6550 | |
| <3 | | | | | | | | 56 | 160 | 163 | | 40 | 35 | 40 | 250 | 2 | 46 | 4.77 | 3550 | 3650 | |
| <3 | | | | | | | | 57 | 163 | 166 | | 70 | 70 | 72 | 210 | 2 | 165 | 2.87 | 2000 | 3900 | |
| <3 | | | | | | | | 58 | 166 | 169 | | 140 | 70 | 76 | 880 | 3 | 70 | 3.07 | 2900 | 3450 | |
| 210 | | | | | 205 | | | 59 | 169 | 172 | | 200 | 240 | 230 | 910 | 3 | 50 | 2.81 | 3000 | 2150 | |
| <3 | | | | | | | | 60 | 172 | 175 | | 290 | 100 | 132 | 810 | 6 | 34 | 2.70 | 2350 | 2250 | |
| <3 | | | | | | | | 61 | 175 | 178 | | 150 | 70 | 72 | 340 | 2 | 42 | 2.31 | 1650 | 1500 | |
| <3 | | | | | | | | 62 | 178 | 181 | | 145 | 115 | 92 | 990 | 4 | 220 | 2.49 | 3550 | 1500 | |
| <3 | | | | | | | | 63 | 181 | 184 | | 75 | 60 | 52 | 260 | 2 | 140 | 1.55 | 2250 | 1600 | |
| <3 | | | | | | | | 64 | 184 | 187 | | 175 | 140 | 51 | 640 | 4 | 140 | 1.70 | 3100 | 1400 | |

883046

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 3

TENEMENT NAME LAKE MARGARET No. E.L. 5/85

PLAN - MAP REFERENCE BURNIE SK55-5

DEPTH..... HOLE No. HA7

CASING LEFT..... DPO No(s) 31987

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED.....

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED.....

| DEPTH To (M) | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | Au ppb PM205 | Au ppb CHECK | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by ALS (BRIS).) | | | | | | | | | |
|-----------------|---------------------|--------------|----------------|------------------|--------------------|--------------------|---|---------------|-------------|-----------|------------|--|-------------|------------|-------------|-------------|------------|---------------|-------------|------------|------|
| | | | | | | | | | | | | Cu K580 | Pb IC580 | Pb XRFi | Zn IC580 | Ag IC580 | As K580 | Fe % IC580 | Mn IC580 | Ba XRFi | |
| | | | | | 5 | | | 65 | 187 | 190 | | | 160 | 370 | 310 | 1150 | 7 | 130 | 2.34 | 4400 | 1550 |
| | | | | | <3 | | | 66 | 190 | 193 | | | 210 | 180 | 172 | 840 | 7 | 65 | 3.07 | 5750 | 1850 |
| | | | | | <3 | | | 67 | 193 | 196 | | | 75 | 190 | 176 | 750 | 3 | 50 | 2.34 | 6600 | 2100 |
| | | | | | <3 | | | 68 | 196 | 199 | | | 85 | 220 | 184 | 610 | 4 | 34 | 1.81 | 5200 | 2000 |
| | | | | | <3 | | | 69 | 199 | 202 | | | 140 | 300 | 270 | 1050 | 4 | 32 | 2.16 | 5850 | 2250 |
| | | | | | <3 | | | 70 | 202 | 205 | | | 185 | 360 | 330 | 1150 | 5 | 32 | 2.49 | 4550 | 1950 |
| | | | | | <3 | | | 71 | 205 | 208 | | | 70 | 250 | 200 | 600 | 2 | 19 | 2.08 | 5800 | 2200 |
| | | | | | <3 | | | 72 | 208 | 211 | | | 165 | 60 | 40 | 330 | 4 | 19 | 2.38 | 4300 | 1950 |
| | | | | | 5 | | | 73 | 211 | 214 | | | 135 | 250 | 210 | 1150 | 3 | 55 | 2.68 | 5500 | 2000 |
| | | | | | <3 | | | 74 | 214 | 217 | | | 130 | 250 | 220 | 1000 | 4 | 28 | 2.42 | 3800 | 2050 |
| | | | | | 3 | | | 75 | 217 | 220 | | | 130 | 270 | 220 | 680 | 3 | 55 | 3.10 | 4850 | 2000 |
| | | | | | <3 | | | 76 | 220 | 223 | | | 145 | 175 | 148 | 650 | 3 | 46 | 2.71 | 4450 | 2100 |
| | | | | | 3 | | | 77 | 223 | 226 | | | 230 | 150 | 148 | 540 | 8 | 65 | 3.34 | 4050 | 1950 |
| | | | | | 3 | | | 78 | 226 | 229 | | | 220 | 150 | 128 | 650 | 7 | 38 | 3.11 | 3750 | 1650 |
| | | | | | <3 | | | 79 | 229 | 232 | | | 110 | 110 | 96 | 390 | 3 | 26 | 2.55 | 4850 | 1750 |
| | | | | | <3 | | | 80 | 232 | 235 | | | 200 | 90 | 68 | 350 | 8 | 28 | 2.61 | 7350 | 1550 |
| | | | | | <3 | | None Existant. | 81 | 235 | 238 | | | 70 | 50 | 36 | 135 | 2 | 30 | 2.42 | 1550 | 1700 |

883047

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 1

TENEMENT NAME LAKE MARGARET No. EL 5/85

PLAN - MAP REFERENCE BURNIE SK55-5

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. RH 12

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 31988

| DEPTH m | To (M) | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | Au ppb Pb PbZn | Au ppb CHECKS | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analyzed by A.L.S. (BRIS)) | | | | | | | | | |
|------------|--------|---------------------|--------------|----------------|------------------|-------------------------|---------------------|---|---------------|-------------|-----------|------------|---|-------------|-----------|-------------|-------------|-------------|---------------|-------------|-----------|--|
| | | | | | | | | | | | | | Cu IC580 | Pb IC580 | Pb XRF | Zn IC580 | Ag IC580 | As IC580 | Fe % IC580 | Mn IC580 | Ba XRF | |
| | | | | | | <3 | | | 998802 | 0-5.7 | 5-7 | | 10 | 130 | 104 | 190 | 1 | <1 | 2.95 | 610 | 890 | |
| | | | | | | <3 | | | 803 | 5.7 | 9.0 | | 5 | 130 | 116 | 150 | 1 | 3 | 2.27 | 190 | 720 | |
| | | | | | | <3 | | | 804 | 9.0 | 12.4 | | 5 | 65 | 56 | 130 | 1 | <1 | 1.61 | 190 | 720 | |
| | | | | | | <3 | | | 805 | 12.4 | 15.4 | | 5 | 110 | 100 | 150 | 1 | <1 | 1.76 | 200 | 670 | |
| | | | | | | <3 | | | 806 | 15.4 | 18.1 | | 15 | 290 | 260 | 620 | 1 | 4 | 2.63 | 2050 | 590 | |
| | | | | | | <3 | | | 807 | 18.1 | 21.3 | | 15 | 140 | 128 | 580 | <1 | 2 | 1.86 | 3100 | 730 | |
| | | | | | | <3 | | | 808 | 21.3 | 25 | | 20 | 140 | 120 | 480 | <1 | 23 | 1.41 | 2000 | 660 | |
| | | | | | | <3 | | | 809 | 25 | 28 | | 20 | 190 | 184 | 310 | 1 | 5 | 0.71 | 870 | 660 | |
| | | | | | | 5 | 5 | | 810 | 28 | 31 | | 20 | 175 | 160 | 520 | <1 | 23 | 2.42 | 690 | 1050 | |
| | | | | | | 15 | | | 811 | 31 | 34 | | 20 | 110 | 96 | 225 | <1 | 40 | 1.88 | 240 | 1000 | |
| | | | | | | 270 | | | 812 | 34 | 37 | | 25 | 80 | 60 | 600 | 1 | 8 | 2.19 | 5300 | 1400 | |
| | | | | | | 35 | | | 813 | 37 | 40 | | 15 | 90 | 80 | 600 | 1 | 8 | 1.91 | 2700 | 990 | |
| | | | | | | 5 | | | 814 | 40 | 43 | | 165 | 310 | 310 | 7800 | 2 | 30 | 2.05 | 1900 | 1650 | |
| | | | | | | 10 | | | 815 | 43 | 46 | | 15 | 260 | 260 | 1000 | 2 | 16 | 1.93 | 2600 | 1550 | |
| | | | | | | 10 | | | 816 | 46 | 49 | | 15 | 135 | 128 | 780 | 1 | 6 | 1.50 | 2350 | 1150 | |
| | | | | | | <3 | | | 817 | 49 | 52 | | 15 | 170 | 160 | 760 | 1 | 7 | 2.21 | 6800 | 1100 | |
| | | | | | | 15 | | | 818 | 52 | 55 | | 5 | 100 | 88 | 720 | 1 | 3 | 1.41 | 6700 | 1150 | |
| | | | | | | 10 | | | 819 | 55 | 58 | | 10 | 60 | 48 | 270 | 1 | 10 | 1.75 | 4100 | 1400 | |
| | | | | | | <3 | | | 820 | 58 | 61 | | 5 | 40 | 28 | 345 | 2 | 3 | 1.77 | 2600 | 1050 | |
| | | | | | | 5 | | | 821 | 61 | 64.6 | | 5 | 90 | 72 | 180 | <1 | 8 | 1.82 | 2250 | 1400 | |
| | | | | | | 15 | | | 822 | 64.6 | 65.6 | | 25 | 30 | 4 | 70 | 1 | 26 | 4.75 | 860 | 610 | |
| | | | | | | 30 | | | 823 | 65.6 | 70 | | 10 | 160 | 116 | 365 | 1 | 23 | 1.76 | 1650 | 920 | |
| | | | | | | 15 | | | 824 | 70 | 73 | | 15 | 135 | 124 | 580 | 1 | 15 | 1.07 | 1700 | 1350 | |
| | | | | | | 20 | | | 825 | 73 | 76 | | 35 | 240 | 300 | 1060 | 1 | 19 | 1.36 | 2050 | 820 | |
| | | | | | | 15 | | | 826 | 76 | 79 | | 10 | 150 | 124 | 380 | 1 | 9 | 2.67 | 2800 | 730 | |
| | | | | | | 15 | | | 827 | 79 | 82 | | 10 | 30 | 8 | 90 | 1 | 7 | 2.61 | 1800 | 1050 | |
| | | | | | | 10 | | | 828 | 82 | 84.7 | | 10 | 30 | 4 | 80 | 4 | 6 | 2.59 | 1800 | 840 | |
| | | | | | | 20 | | | 829 | 84.7 | 85.6 | | 10 | 40 | 12 | 100 | 2 | 14 | 3.41 | 2700 | 520 | |
| | | | | | | 10 | | | 830 | 85.6 | 88 | | 10 | 85 | 64 | 250 | 4 | 25 | 2.52 | 2000 | 780 | |
| | | | | | | 5 | | | 831 | 88 | 91 | | 15 | 40 | 12 | 135 | 2 | 10 | 3.31 | 3050 | 600 | |
| | | | | | | 15 | | | 832 | 91 | 94 | | 15 | 35 | 8 | 110 | 2 | 21 | 2.14 | 2050 | 610 | |

883048

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 2

TENEMENT NAME LAKE MARGARET No. EL 5/85

PLAN - MAP REFERENCE BURNIE SKES-5

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. RH12.0

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 319882

| DEPTH | | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | Au Ppb PM205 | Au Ppb CHECKS | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by ALS (BRIE)) | | | | | | | | | |
|----------|--------|---------------|-----------|-------------|------------------|-----------------|------------------|---|------------|----------|--------|---------|---------------------------------------|----------|--------|----------|----------|----------|------------|----------|--------|--|
| From (M) | To (M) | | | | | | | | | | | | Cu IC580 | Pb IC580 | Pb XRF | Zn IC580 | Ag IC580 | As IC580 | Fe % IC580 | Mn IC580 | Ba XRF | |
| | | | | | | 15 | | | 990833 | 94 | 97 | | 15 | 40 | 16 | 100 | 2 | 21 | 2.64 | 2550 | 700 | |
| | | | | | | 20 | | | 834 | 97 | 100 | | 15 | 50 | 32 | 100 | 2 | 41 | 1.89 | 2200 | 1150 | |
| | | | | | | 45 | | | 835 | 100 | 103 | | 25 | 60 | 40 | 160 | 2 | 140 | 1.70 | 2800 | 1950 | |
| | | | | | | 25 | | | 836 | 103 | 106 | | 15 | 200 | 200 | 980 | 2 | 70 | 1.39 | 2750 | 2000 | |
| | | | | | | 15 | | | 837 | 106 | 109 | | 25 | 120 | 112 | 1000 | 2 | 80 | 2.16 | 2650 | 2800 | |
| | | | | | | 20 | | | 838 | 109 | 112 | | 15 | 55 | 36 | 3200 | 1 | 200 | 2.48 | 4500 | 1850 | |
| | | | | | | 20 | | | 839 | 112 | 115 | | 15 | 50 | 28 | 335 | 2 | 50 | 2.25 | 4300 | 2650 | |
| | | | | | | 15 | | | 840 | 115 | 118 | | 10 | 35 | 16 | 95 | 3 | 50 | 2.46 | 3300 | 2600 | |
| | | | | | | 10 | | | 841 | 118 | 120.8 | | 15 | 150 | 128 | 1800 | 2 | 42 | 2.52 | 4200 | 2000 | |
| | | | | | | 45 | | | 842 | 120.8 | 124 | | 115 | 600 | 570 | 2600 | 4 | 200 | 1.72 | 2800 | 1900 | |
| | | | | | | 30 | | | 843 | 124 | 127 | | 170 | 75 | 64 | 1060 | 3 | 28 | 1.25 | 690 | 2200 | |
| | | | | | | 45 | | | 844 | 127 | 130 | | 340 | 120 | 116 | 760 | 3 | 52 | 1.37 | 640 | 2300 | |
| | | | | | | 15 | | | 845 | 130 | 133 | | 30 | 150 | 156 | 1800 | 1 | 12 | 1.71 | 1400 | 2700 | |
| | | | | | | 55 | | | 846 | 133 | 136 | | 300 | 370 | 350 | 3000 | 3 | 48 | 2.21 | 1900 | 2050 | |
| | | | | | | 15 | | | 847 | 136 | 139 | | 85 | 160 | 144 | 840 | 3 | 21 | 2.36 | 1050 | 2150 | |
| | | | | | | 15 | | | 848 | 139 | 142 | | 25 | 75 | 52 | 350 | 2 | 75 | 3.06 | 1750 | 2350 | |
| | | | | | | 20 | | | 849 | 142 | 145 | | 110 | 840 | 840 | 5400 | 4 | 80 | 3.42 | 2550 | 2550 | |
| | | | | | | 10 | | | 850 | 145 | 148 | | 100 | 880 | 850 | 5200 | 8 | 45 | 3.36 | 3200 | 2700 | |
| | | | | | | 15 | | | 851 | 148 | 151 | | 30 | 1080 | 1100 | 3600 | 3 | 34 | 2.81 | 1900 | 2250 | |
| | | | | | | 20 | | | 852 | 151 | 154 | | 20 | 2000 | 1650 | 3200 | 2 | 30 | 1.64 | 1350 | 2650 | |
| | | | | | | 15 | S | | 853 | 154 | 157 | | 15 | 440 | 196 | 1150 | 1 | 29 | 1.25 | 1450 | 770 | |
| | | | | | | 10 | S | | 854 | 157 | 160 | | 10 | 230 | 200 | 580 | 2 | 15 | 2.01 | 1750 | 750 | |
| | | | | | | 5 | | | 855 | 160 | 163 | | 10 | 60 | 36 | 190 | 1 | 40 | 1.77 | 1250 | 580 | |
| | | | | | | 10 | | | 856 | 163 | 166 | | 10 | 400 | 240 | 1600 | 2 | 30 | 2.62 | 2100 | 780 | |
| | | | | | | 10 | | | 857 | 166 | 169 | | 15 | 80 | 56 | 170 | 2 | 33 | 2.11 | 1500 | 750 | |
| | | | | | | 10 | | | 858 | 169 | 172 | | 15 | 100 | 76 | 220 | 2 | 44 | 1.67 | 1900 | 670 | |
| | | | | | | 10 | | | 859 | 172 | 175 | | 10 | 40 | 68 | 170 | 1 | 58 | 2.04 | 1350 | 790 | |
| | | | | | | 5 | | | 860 | 175 | 178 | | 15 | 200 | 176 | 880 | 2 | 80 | 1.10 | 1450 | 850 | |
| | | | | | | 10 | | | 861 | 178 | 181 | | 65 | 120 | 100 | 270 | 2 | 64 | 1.62 | 1300 | 880 | |
| | | | | | | 5 | | | 862 | 181 | 184 | | 70 | 30 | 16 | 100 | 2 | 19 | 2.02 | 1200 | 760 | |
| | | | | | | 23 | S | | 863 | 184 | 187 | | 115 | 50 | 24 | 145 | 1 | 26 | 1.56 | 1150 | 790 | |

883049

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 3

TENEMENT NAME LAKE MARGARET No. EL 5/85

PLAN - MAP REFERENCE BURNIE SK55-5

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. RH 120

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 31988

| DEPTH | | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | Au | Au | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by ALS (BRIS)) | | | | | | | | | |
|----------|--------|---------------|-----------|-------------|------------------|-------|--------|---|------------|----------|--------|---------|--|-------|-----|-------|------|-------|-------|------|------|--|
| From (M) | To (M) | | | | | Nppb | ppb | | | | | | Cu | Pb | Pb | Zn | Ag | As | Fe % | Mn | Ba | |
| | | | | | | PM20S | CHECKS | | | | | | K580 | IC580 | XRF | IC580 | K580 | IC580 | IC580 | K580 | XRF | |
| | | | | | | 10 | | | 864 | 187 | 190 | | 45 | 110 | 84 | 480 | 2 | 100 | 4.22 | 1500 | 680 | |
| | | | | | | 3 | | | 865 | 190 | 193 | | 40 | 30 | 8 | 160 | 2 | 55 | 1.87 | 1100 | 810 | |
| | | | | | | 5 | | | 866 | 193 | 196 | | 30 | 40 | 12 | 70 | 2 | 27 | 1.91 | 1450 | 900 | |
| | | | | | | 5 | | | 867 | 196 | 199 | | 35 | 45 | 20 | 80 | 2 | 50 | 2.90 | 1150 | 900 | |
| | | | | | | 3 | | | 868 | 199 | 202 | | 15 | 40 | 12 | 130 | 3 | 5 | 3.36 | 1350 | 1100 | |
| | | | | | | <3 | | | 869 | 202 | 205 | | 5 | 35 | 4 | 115 | 2 | 11 | 2.84 | 1600 | 1300 | |
| | | | | | | 3 | | | 870 | 205 | 208 | | 40 | 50 | 32 | 250 | 1 | <1 | 1.97 | 1650 | 810 | |
| | | | | | | <3 | | | 871 | 208 | 211 | | 10 | 45 | 20 | 460 | 1 | 8 | 1.33 | 3500 | 250 | |
| | | | | | | <3 | | | 872 | 211 | 214 | | 5 | 45 | 20 | 350 | 1 | 4 | 1.36 | 3100 | 610 | |
| | | | | | | <3 | | | 873 | 214 | 217 | | 5 | 55 | 32 | 295 | 1 | 2 | 1.32 | 2550 | 260 | |
| | | | | | | <3 | | | 874 | 217 | 220 | | 5 | 45 | 24 | 145 | 2 | 4 | 1.40 | 2950 | 340 | |
| | | | | | | 25 | | | 875 | 220 | 223 | | 30 | 150 | 120 | 540 | 2 | 9 | 2.23 | 3300 | 740 | |
| | | | | | | 3 | | | 876 | 223 | 226 | | 10 | 230 | 180 | 640 | 2 | 4 | 1.81 | 3050 | 500 | |
| | | | | | | <3 | | | 877 | 226 | 229 | | 25 | 60 | 32 | 150 | 2 | 17 | 3.59 | 2300 | 680 | |
| | | | | | | <3 | | | 878 | 229 | 232 | | 15 | 60 | 40 | 290 | 1 | 3 | 1.71 | 1850 | 530 | |
| | | | | | | 3 | | | 879 | 232 | 235 | | 30 | 105 | 84 | 365 | 6 | 14 | 2.11 | 1850 | 500 | |
| | | | | | | 5 | | | 880 | 235 | 238 | | 90 | 45 | 28 | 70 | 2 | 3 | 2.96 | 610 | 2000 | |
| | | | | | | 5 | | | 881 | 238 | 241 | | 15 | 30 | 12 | 90 | 1 | 3 | 3.05 | 850 | 6100 | |
| | | | | | | 5 | | | 882 | 241 | 244 | | 35 | 30 | 8 | 100 | 2 | 1 | 3.33 | 780 | 3450 | |
| | | | | | | 5 | | | 883 | 244 | 247 | | 60 | 30 | 12 | 110 | 2 | 1 | 2.47 | 400 | 3150 | |
| | | | | | | 5 | | | 884 | 247 | 250 | | 35 | 40 | 20 | 85 | 2 | 3 | 2.83 | 320 | 3150 | |
| | | | | | | 5 | | | 885 | 250 | 253 | | 70 | 60 | 40 | 110 | 2 | 1 | 2.85 | 470 | 3000 | |
| | | | | | | 5 | | | 886 | 253 | 256 | | 55 | 30 | 16 | 115 | 4 | 1 | 3.18 | 520 | 3100 | |
| | | | | | | 5 | | | 887 | 256 | 259 | | 70 | 30 | 20 | 125 | 2 | <1 | 2.94 | 550 | 3250 | |
| | | | | | | 3 | | | 888 | 259 | 262 | | 120 | 25 | 16 | 90 | 2 | <1 | 2.53 | 450 | 3200 | |
| | | | | | | 10 | | | 889 | 262 | 265 | | 45 | 30 | 16 | 90 | 2 | <1 | 2.56 | 390 | 2550 | |
| | | | | | | 10 | | | 890 | 265 | 268 | | 100 | 30 | 16 | 100 | 3 | 1 | 2.99 | 430 | 3050 | |
| | | | | | | 5 | | | 891 | 268 | 271 | | 85 | 30 | 16 | 100 | 1 | 1 | 3.18 | 480 | 2500 | |
| | | | | | | 10 | | | 892 | 271 | 274 | | 195 | 30 | 20 | 100 | 2 | 1 | 3.05 | 440 | 3350 | |
| | | | | | | 5 | | | 893 | 274 | 277 | | 560 | 40 | 28 | 125 | 5 | 2 | 3.35 | 1400 | 2800 | |
| | | | | | | 5 | | | 894 | 277 | 280 | | 600 | 60 | 52 | 440 | 2 | 1 | 2.45 | 610 | 2150 | |

883050

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 4

TENEMENT NAME LAKE MARGARET No. EL 5/85

PLAN - MAP REFERENCE BURNIE SK55-5

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. RH12

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 0

| DEPTH To (M) | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | Au | Au | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by... ALS (BRIS) J) | | | | | | | | | |
|-----------------|---------------------|--------------|----------------|------------------|--------------|---------------|---|---------------|-------------|-----------|------------|--|------------|------------|------------|------------|------------|--------------|------------|------------|--|
| | | | | | ppb PM208 | ppb CHECKS | | | | | | Cu K580 | Pb K580 | Pb ARF; | Zn K580 | Ag K580 | As K580 | Fe % K580 | Mn K580 | Ba ARF; | |
| | | | | | 5 | | | 895 | 280 | 283 | | 480 | 65 | 48 | 640 | 1 | 1 | 3.02 | 690 | 2800 | |
| | | | | | 5 | | | 896 | 283 | 286 | | 520 | 120 | 100 | 295 | 3 | 2 | 3.22 | 890 | 3000 | |
| | | | | | 5 | | | 897 | 286 | 289 | | 150 | 30 | 12 | 175 | 2 | 1 | 6.04 | 1700 | 2450 | |
| | | | | | 5 | 5 | | 990898 | 289 | 292 | | 135 | 15 | 12 | 95 | 2 | 1 | 2.46 | 490 | 2.227 | |
| | | | | | 80 | 70 | | 1198395 | 292 | 295 | | 3200 | 520 | 480 | 580 | 5 | 4 | 4.35 | 910 | 2450 | |
| | | | | | 5 | | | 396 | 295 | 298 | | 560 | 40 | 24 | 130 | 5 | 2 | 3.65 | 450 | 4200 | |
| | | | | | 5 | | | 397 | 298 | 301 | | 220 | 50 | 40 | 155 | 8 | 3 | 3.28 | 440 | 2850 | |
| | | | | | 5 | | | 398 | 301 | 304 | | 230 | 40 | 20 | 145 | 3 | 1 | 3.36 | 330 | 2350 | |
| | | | | | 5 | | | 1198399 | 304 | 307 | | 195 | 30 | 8 | 140 | 2 | 1 | 3.46 | 340 | 2600 | |

883051

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 1050
TENEMENT NAME LAKE MARGARET No. EL 5/85
PLAN - MAP REFERENCE BURNIE SK55-5
DEPTH 244m HOLE No. RH 105
CASING LEFT DPO No(s) 31989

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED.....
RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED.....

| DEPTH | | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | Au ppb PM205 | Au ppb CHECK | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by ALS (BA)S) | | | | | | | | | |
|----------|--------|---------------|-----------|-------------|------------------|-----------------|-----------------|---|------------|----------|--------|---------|--------------------------------------|-------------|-----------|-------------|-------------|-------------|---------------|-------------|-----------|--|
| From (M) | To (M) | | | | | | | | | | | | Cu IC580 | Pb IC580 | Pb XRF | Zn IC580 | Ag IC580 | As IC580 | Fe % IC580 | Mn IC580 | Ba XRF | |
| | | | | | | <3 | | | 1230084 | 1 | 4 | | 160 | 120 | 124 | 280 | 25 | 140 | 2.13 | 1250 | 2650 | |
| | | | | | | <3 | | | 86 | 4 | 7 | | 115 | 280 | 280 | 145 | 9 | 115 | 1.69 | 85 | 2350 | |
| | | | | | | 3 | | | 86 | 7 | 10 | | 90 | 270 | 260 | 140 | 6 | 175 | 1.61 | 80 | 3700 | |
| | | | | | | 3 | | | 87 | 10 | 13 | | 90 | 150 | 148 | 540 | 5 | 55 | 3.43 | 5850 | 3600 | |
| | | | | | | <3 | | | 88 | 13 | 16 | | 90 | 75 | 64 | 390 | 5 | 19 | 3.43 | 4600 | 2800 | |
| | | | | | | <3 | | | 89 | 16 | 19 | | 45 | 90 | 84 | 500 | 3 | 34 | 2.77 | 2700 | 1850 | |
| | | | | | | <3 | | | 90 | 19 | 22 | | 35 | 80 | 68 | 300 | 2 | 14 | 2.14 | 1250 | 2150 | |
| | | | | | | <3 | | | 91 | 22 | 25 | | 55 | 130 | 124 | 420 | 3 | 20 | 3.78 | 2400 | 2500 | |
| | | | | | | <3 | 3 | | 92 | 25 | 28 | | 55 | 165 | 148 | 840 | 3 | 19 | 3.68 | 4000 | 2200 | |
| | | | | | | <3 | | | 93 | 28 | 31 | | 55 | 220 | 200 | 740 | 3 | 22 | 3.60 | 3450 | 2150 | |
| | | | | | | <3 | | | 94 | 31 | 34 | | 95 | 340 | 330 | 570 | 3 | 55 | 2.86 | 1950 | 1300 | |
| | | | | | | <3 | | | 95 | 34 | 37 | | 110 | 420 | 390 | 720 | 3 | 150 | 3.08 | 1300 | 1200 | |
| | | | | | | <3 | | | 96 | 37 | 40 | | 75 | 550 | 510 | 850 | 3 | 60 | 3.05 | 1050 | 1050 | |
| | | | | | | <3 | | | 97 | 40 | 43 | | 75 | 430 | 400 | 500 | 2 | 80 | 3.16 | 1600 | 1350 | |
| | | | | | | <3 | | | 98 | 43 | 46 | | 110 | 290 | 280 | 450 | 2 | 55 | 2.75 | 140 | 450 | |
| | | | | | | <3 | | | 99 | 46 | 49 | | 165 | 230 | 220 | 380 | 2 | 75 | 2.98 | 90 | 900 | |
| | | | | | | <3 | | | 1230100 | 49 | 52 | | 110 | 220 | 210 | 210 | 2 | 55 | 2.84 | 90 | 810 | |
| | | | | | | <3 | | | 101 | 52 | 55 | | 140 | 230 | 210 | 1100 | 2 | 60 | 3.06 | 110 | 750 | |
| | | | | | | <3 | <3 | | 102 | 55 | 58 | | 120 | 190 | 180 | 360 | 2 | 55 | 3.06 | 125 | 770 | |
| | | | | | | <3 | | | 103 | 58 | 61 | | 110 | 230 | 220 | 520 | 2 | 60 | 3.13 | 135 | 700 | |
| | | | | | | 10 | | | 104 | 61 | 64 | | 125 | 310 | 310 | 640 | 2 | 65 | 3.82 | 160 | 710 | |
| | | | | | | <3 | | | 105 | 64 | 67 | | 65 | 360 | 340 | 280 | 2 | 60 | 3.68 | 720 | 840 | |
| | | | | | | 10 | | | 106 | 67 | 70 | | 230 | 450 | 420 | 1350 | 19 | 34 | 2.53 | 1100 | 1550 | |
| | | | | | | 20 | | | 107 | 70 | 73 | | 470 | 600 | 590 | 620 | 7 | 19 | 3.85 | 1500 | 1500 | |
| | | | | | | 15 | | | 108 | 73 | 76 | | 90 | 240 | 230 | 280 | 3 | 7 | 3.41 | 2400 | 1350 | |
| | | | | | | 15 | | | 109 | 76 | 79 | | 70 | 500 | 450 | 490 | 3 | 100 | 3.33 | 2550 | 1400 | |
| | | | | | | 15 | | | 110 | 79 | 82 | | 165 | 670 | 640 | 620 | 5 | 42 | 3.66 | 1800 | 1400 | |
| | | | | | | 10 | | | 111 | 82 | 85 | | 145 | 220 | 200 | 500 | 3 | 17 | 2.16 | 1700 | 1300 | |
| | | | | | | 30 | 45 | | 112 | 85 | 88 | | 95 | 960 | 810 | 3000 | 5 | 12 | 1.75 | 1550 | 1600 | |
| | | | | | | 15 | | | 113 | 88 | 91 | | 85 | 300 | 280 | 490 | 3 | 370 | 2.99 | 1550 | 1450 | |
| | | | | | | 30 | | | 114 | 91 | 94 | | 90 | 210 | 140 | 1800 | 3 | 15 | 1.80 | 1100 | 105 | |

883052

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 20

TENEMENT NAME LAKE MARGARET No. EL 5/85

PLAN - MAP REFERENCE BURNIE SK55-5

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. RH 135

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 31989

| DEPTH | | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | Au | Au | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by ALS (BRIS)) | | | | | | | | | | |
|----------|--------|---------------|-----------|-------------|------------------|-----|-----|---|------------|----------|--------|---------|---------------------------------------|------|------|-------|-----|-----|------|-------|------|-------|-------|
| From (M) | To (M) | | | | | ppb | ppb | | | | | | Cu | Pb | Pb | Zn | Ag | As | Fe % | Mn | Ba | K2SO4 | K2SO4 |
| | | | | | | 25 | | | 1230115 | 94 | 97 | | 130 | 4850 | 4650 | 1.62% | 10 | 34 | 3.04 | 1850 | 940 | | |
| | | | | | | 20 | | | 116 | 97 | 100 | | 330 | 1100 | 860 | 1.01% | 5 | 34 | 3.33 | 3800 | 680 | | |
| | | | | | | 15 | | | 117 | 100 | 103 | | 65 | 230 | 230 | 510 | 2 | 30 | 2.54 | 2500 | 660 | | |
| | | | | | | 5 | | | 118 | 103 | 106 | | 40 | 115 | 104 | 320 | 2 | 11 | 2.99 | 3200 | 610 | | |
| | | | | | | 3 | | | 119 | 106 | 109 | | 80 | 50 | 44 | 165 | 3 | 10 | 3.23 | 2550 | 610 | | |
| | | | | | | 5 | | | 120 | 109 | 112 | | 45 | 50 | 36 | 150 | 2 | 11 | 2.75 | 2450 | 730 | | |
| | | | | | | 15 | | | 121 | 112 | 115 | | 35 | 85 | 72 | 230 | 2 | 10 | 3.47 | 6000 | 820 | | |
| | | | | | | 15 | | | 122 | 115 | 118 | | 40 | 25 | 16 | 160 | 2 | 9 | 2.17 | 3750 | 910 | | |
| | | | | | | 3 | | | 123 | 118 | 121 | | 55 | 55 | 48 | 280 | 1 | 11 | 2.26 | 4600 | 980 | | |
| | | | | | | 15 | | | 124 | 121 | 124 | | 60 | 105 | 88 | 130 | 2 | 34 | 1.75 | 6000 | 1400 | | |
| | | | | | | 170 | | | 125 | 124 | 127 | | 50 | 155 | 140 | 370 | 3 | 20 | 1.86 | 1.15% | 1600 | | |
| | | | | | | 115 | | | 126 | 127 | 130 | | 65 | 250 | 220 | 300 | 3 | 55 | 2.03 | 1.65% | 1650 | | |
| | | | | | | 30 | | | 127 | 130 | 133 | | 60 | 175 | 140 | 150 | 1 | 22 | 1.22 | 1.33% | 1500 | | |
| | | | | | | 110 | | | 128 | 133 | 136 | | 65 | 60 | 48 | 140 | 3 | 10 | 1.84 | 1.76% | 1400 | | |
| | | | | | | 5 | | | 129 | 136 | 139 | | 40 | 25 | 12 | 115 | 2 | 8 | 1.87 | 2.18% | 1350 | | |
| | | | | | | 5 | | | 1230130 | 139 | 142 | | 65 | 100 | 84 | 115 | 2 | 8 | 1.39 | 1.39% | 1450 | | |
| | | | | | | 3 | | | 131 | 142 | 145 | | 40 | 1700 | 1500 | 860 | 2 | 11 | 0.95 | 9600 | 1400 | | |
| | | | | | | 5 | | | 132 | 145 | 148 | | 45 | 270 | 270 | 330 | 2 | 11 | 1.22 | 8400 | 1300 | | |
| | | | | | | 5 | | | 133 | 148 | 151 | | 50 | 150 | 140 | 290 | 3 | 12 | 1.47 | 7800 | 1150 | | |
| | | | | | | 5 | | | 134 | 151 | 154 | | 80 | 95 | 76 | 300 | 3 | 7 | 2.53 | 3900 | 1200 | | |
| | | | | | | 5 | | | 135 | 154 | 157 | | 75 | 60 | 52 | 155 | 2 | 9 | 1.78 | 4500 | 1300 | | |
| | | | | | | 10 | 10 | | 136 | 157 | 160 | | 2350 | 195 | 176 | 350 | 9 | 34 | 5.35 | 3450 | 970 | | |
| | | | | | | 75 | | | 137 | 160 | 163 | | 230 | 85 | 64 | 370 | 5 | 65 | 5.58 | 4250 | 1050 | | |
| | | | | | | 25 | | | 138 | 163 | 166 | | 140 | 80 | 68 | 910 | 3 | 50 | 3.67 | 6550 | 2050 | | |
| | | | | | | 15 | | | 139 | 166 | 169 | | 100 | 60 | 40 | 160 | 3 | 32 | 3.61 | 7150 | 1600 | | |
| | | | | | | 35 | | | 140 | 169 | 172 | | 110 | 105 | 96 | 410 | 6 | 135 | 3.09 | 5850 | 3600 | | |
| | | | | | | 20 | | | 141 | 172 | 175 | | 1250 | 35 | 28 | 200 | 2 | 38 | 4.58 | 2450 | 860 | | |
| | | | | | | 15 | | | 142 | 175 | 178 | | 100 | 20 | 12 | 80 | 2 | 26 | 3.25 | 1600 | 1600 | | |
| | | | | | | 15 | | | 143 | 178 | 181 | | 260 | 5150 | 4550 | 1050 | 4 | 70 | 5.40 | 2800 | 1650 | | |
| | | | | | | 130 | | | 144 | 181 | 184 | | 870 | 710 | 750 | 210 | 7 | 420 | 12.2 | 2350 | 1300 | | |
| | | | | | | 145 | | | 145 | 184 | 187 | | 175 | 710 | 125 | 210 | 110 | 110 | 110 | 110 | 110 | | |

883054

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 6
TENEMENT NAME LAKE MARGARET No. EL 5/85
PLAN - MAP REFERENCE BURNIE SK55-5
DEPTH..... HOLE No. RH1301
COMPLETED..... DPO No(s) 31944

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED.....
RL COLLAR..... INCLINATION..... DRILL TYPE.....

| DEPTH | | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | Au PPB PM205 | Au PPB CHECK | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by ALS (BRIS)) | | | | | | | | | |
|----------|--------|---------------|-----------|-------------|------------------|-----------------|-----------------|---|------------|----------|--------|---------|---------------------------------------|-------------|-------------|-------------|--------------|-------------|------------|------------|--|--|
| From (M) | To (M) | | | | | | | | | | | | Cu IC580 | Zn IC580 | Ag IC580 | As IC580 | Fe% IC580 | Mn IC580 | Pb XRF1 | Ba XRF1 | | |
| | | | | | | 10 | | | 12301 | 650-5.2 | 8.2 | | 70 | 520 | 2 | 13 | 3.93 | 1.44% | 220 | 1050 | | |
| | | | | | | 3 | | | 166 | 8.2 | 11.2 | | 50 | 590 | 5 | 17 | 3.22 | 6.950 | 220 | 1000 | | |
| | | | | | | <3 | | | 167 | 11.2 | 14.2 | | 60 | 930 | 4 | 32 | 3.11 | 6.950 | 530 | 2500 | | |
| | | | | | | 3 | | | 168 | 14.2 | 17.2 | | 50 | 1550 | 3 | 34 | 5.43 | 8.100 | 820 | 1850 | | |
| | | | | | | <3 | | | 169 | 17.2 | 20.2 | | 35 | 570 | 2 | 11 | 3.04 | 6.700 | 146 | 1250 | | |
| | | | | | | <3 | | | 170 | 20.2 | 23.2 | | 30 | 700 | 2 | 24 | 2.61 | 6.800 | 220 | 920 | | |
| | | | | | | <3 | | | 171 | 23.2 | 26.2 | | 25 | 850 | 2 | 14 | 3.72 | 1.74% | 410 | 1350 | | |
| | | | | | | 3 | | | 172 | 26.2 | 29.2 | | 60 | 470 | 3 | 15 | 2.15 | 6.500 | 172 | 1150 | | |
| | | | | | | <3 | <3 | | 173 | 29.2 | 32.2 | | 55 | 1150 | 2 | 22 | 5.47 | 7.950 | 200 | 2100 | | |
| | | | | | | <3 | | | 174 | 32.2 | 35.2 | | 20 | 650 | 1 | 6 | 3.86 | 6.350 | 36 | 1600 | | |
| | | | | | | 3 | | | 175 | 35.2 | 38.2 | | 45 | 890 | 1 | 11 | 5.28 | 4.250 | 88 | 1200 | | |
| | | | | | | <3 | | | 176 | 38.2 | 41.2 | | 55 | 1350 | 3 | 230 | 5.71 | 6.050 | 350 | 1300 | | |
| | | | | | | <3 | | | 177 | 41.2 | 44.2 | | 60 | 1600 | 2 | 90 | 3.79 | 10.50 | 660 | 1400 | | |
| | | | | | | <3 | | | 178 | 44.2 | 47.2 | | 350 | 500 | 2 | 240 | 6.48 | 26.50 | 220 | 2000 | | |
| | | | | | | <3 | | | 179 | 47.2 | 50.2 | | 360 | 580 | 1 | 110 | 2.07 | 27.80 | 72 | 3250 | | |
| | | | | | | <3 | | | 180 | 50.2 | 53.2 | | 340 | 390 | 1 | 50 | 2.84 | 22.50 | 28 | 5250 | | |
| | | | | | | <3 | | | 181 | 53.2 | 56.2 | | 260 | 300 | 1 | 16 | 2.96 | 21.00 | 24 | 3900 | | |
| | | | | | | <3 | | | 182 | 56.2 | 59.2 | | 270 | 340 | 1 | 12 | 3.32 | 19.00 | 16 | 2150 | | |
| | | | | | | <3 | <3 | | 183 | 59.2 | 62.2 | | 120 | 190 | 1 | 9 | 3.11 | 19.00 | 32 | 1850 | | |
| | | | | | | <3 | | | 184 | 62.2 | 65.2 | | 220 | 380 | 1 | 9 | 3.08 | 17.00 | 64 | 1850 | | |
| | | | | | | <3 | | | 185 | 65.2 | 68.2 | | 480 | 500 | 1 | 11 | 3.43 | 12.50 | 40 | 1400 | | |
| | | | | | | <3 | | | 186 | 68.2 | 71.2 | | 150 | 910 | 2 | 55 | 4.52 | 15.50 | 330 | 1200 | | |
| | | | | | | <3 | | | 187 | 71.2 | 74.2 | | 100 | 770 | 2 | 55 | 5.54 | 16.50 | 450 | 850 | | |
| | | | | | | <3 | | | 188 | 74.2 | 77.2 | | 180 | 1650 | 2 | 75 | 4.14 | 13.50 | 580 | 790 | | |
| | | | | | | <3 | | | 189 | 77.2 | 80.2 | | 130 | 2050 | 3 | 90 | 3.40 | 14.50 | 570 | 840 | | |
| | | | | | | <3 | | | 190 | 80.2 | 83.2 | | 105 | 2100 | 3 | 75 | 3.40 | 18.00 | 710 | 860 | | |
| | | | | | | <3 | | | 191 | 83.2 | 86.2 | | 70 | 7450 | 5 | 55 | 5.93 | 28.50 | 1250 | 680 | | |
| | | | | | | <3 | | | 192 | 86.2 | 89.2 | | 85 | 1100 | 3 | 60 | 9.45 | 3000 | 510 | 520 | | |
| | | | | | | <3 | 3 | | 193 | 89.2 | 92.2 | | 155 | 440 | 2 | 70 | 7.88 | 14.00 | 380 | 500 | | |
| | | | | | | <3 | | | 194 | 92.2 | 95.2 | | 180 | 270 | 3 | 65 | 6.01 | 16.50 | 380 | 680 | | |
| | | | | | | <3 | | | 195 | 95.2 | 98.2 | | 410 | 660 | 2 | 55 | 6.78 | 15.50 | 410 | 510 | | |

883055

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 2
TENEMENT NAME LAKE MARGARET No. EL 5/85
PLAN - MAP REFERENCE BURNIE SK55-5

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. RA.13.0
RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 31999.5

| DEPTH | | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | Au | Au | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by <u>ALS (RRIS)</u>) | | | | | | | | | |
|----------|--------|---------------|-----------|-------------|------------------|-----|-----|---|------------|----------|--------|---------|---|------|----|----|------------------|------|------|------|-------|-------|
| From (M) | To (M) | | | | | ppb | ppb | | | | | | Cu | Zn | Ag | As | K ₂ O | Mn | Pb | Ba | PM205 | CHECK |
| | | | | | | <3 | | | 1230196 | 98.2 | 101.2 | | 720 | 450 | 3 | 70 | 6.17 | 1900 | 280 | 960 | | |
| | | | | | | <3 | | | 97 | 101.2 | 104.2 | | 560 | 800 | 2 | 65 | 7.17 | 2450 | 260 | 900 | | |
| | | | | | | <3 | | | 98 | 104.2 | 107.2 | | 720 | 730 | 1 | 13 | 2.69 | 2050 | 20 | 1150 | | |
| | | | | | | <3 | | | 99 | 107.2 | 110.2 | | 880 | 910 | 1 | 12 | 3.55 | 1300 | 16 | 1350 | | |
| | | | | | | <3 | | | 200 | 110.2 | 113.2 | | 230 | 410 | 1 | 24 | 5.57 | 1100 | 60 | 1850 | | |
| | | | | | | <3 | | | 201 | 113.2 | 116.2 | | 390 | 620 | 1 | 14 | 3.47 | 1400 | 88 | 2900 | | |
| | | | | | | <3 | | | 202 | 116.2 | 119.2 | | 480 | 740 | 1 | 11 | 2.88 | 1300 | 116 | 2050 | | |
| | | | | | | <3 | | | 203 | 119.2 | 122.2 | | 1200 | 1350 | 1 | 13 | 3.05 | 2600 | 40 | 1800 | | |
| | | | | | | <3 | | | 204 | 122.2 | 125.2 | | 1550 | 1750 | 1 | 6 | 3.05 | 2500 | 32 | 1150 | | |
| | | | | | | <3 | | | 205 | 125.2 | 128.2 | | 840 | 990 | 1 | 7 | 2.65 | 2250 | 48 | 1300 | | |
| | | | | | | <3 | | | 206 | 128.2 | 131.2 | | 420 | 550 | 1 | 9 | 2.44 | 2300 | 32 | 1200 | | |
| | | | | | | <3 | | | 207 | 131.2 | 134.2 | | 440 | 590 | 1 | 8 | 2.46 | 1750 | 52 | 1300 | | |
| | | | | | | <3 | | | 208 | 134.2 | 137.2 | | 440 | 540 | 1 | 7 | 2.01 | 2250 | 32 | 1450 | | |
| | | | | | | <3 | | | 209 | 137.2 | 140.2 | | 350 | 370 | 1 | 9 | 1.86 | 2100 | 20 | 1750 | | |
| | | | | | | <3 | | | 210 | 140.2 | 143.2 | | 800 | 780 | 1 | 7 | 2.04 | 1900 | 20 | 1600 | | |
| | | | | | | <3 | | | 211 | 143.2 | 146.2 | | 2400 | 2200 | 1 | 8 | 2.53 | 2850 | 40 | 2250 | | |
| | | | | | | <3 | | | 212 | 146.2 | 149.2 | | 2600 | 2350 | 1 | 10 | 2.19 | 3700 | 168 | 3550 | | |
| | | | | | | <3 | | | 213 | 149.2 | 152.2 | | 1500 | 1400 | 1 | 7 | 1.73 | 2100 | 20 | 2650 | | |
| | | | | | | <3 | | | 214 | 152.2 | 155.2 | | 1550 | 1550 | 1 | 6 | 1.45 | 2400 | 28 | 3550 | | |
| | | | | | | <3 | | | 215 | 155.2 | 158.2 | | 1150 | 1250 | 1 | 7 | 1.66 | 2250 | 84 | 2400 | | |
| | | | | | | <3 | | | 216 | 158.2 | 161.2 | | 760 | 820 | 1 | 7 | 1.58 | 2450 | 84 | 1950 | | |
| | | | | | | <3 | <3 | | 217 | 161.2 | 164.2 | | 480 | 610 | 1 | 8 | 2.26 | 2350 | 36 | 2200 | | |
| | | | | | | <3 | | | 218 | 164.2 | 167.2 | | 720 | 820 | 1 | 7 | 2.61 | 2750 | 24 | 2300 | | |
| | | | | | | <3 | | | 219 | 167.2 | 170.2 | | 1200 | 1150 | 1 | 9 | 2.39 | 3300 | 20 | 2400 | | |
| | | | | | | <3 | | | 220 | 170.2 | 173.2 | | 1100 | 1100 | 1 | 8 | 2.36 | 2450 | 16 | 2150 | | |
| | | | | | | <3 | | | 221 | 173.2 | 176.2 | | 920 | 1000 | 1 | 12 | 2.10 | 3050 | 20 | 1650 | | |
| | | | | | | 5 | | | 222 | 176.2 | 179.2 | | 640 | 700 | 1 | 22 | 2.91 | 3500 | 32 | 1650 | | |
| | | | | | | <3 | | | 223 | 179.2 | 182.2 | | 680 | 750 | 1 | 11 | 2.94 | 2350 | 16 | 1350 | | |
| | | | | | | <3 | | | 224 | 182.2 | 185.2 | | 440 | 630 | 1 | 10 | 4.67 | 4000 | 60 | 1100 | | |
| | | | | | | 35 | | | 225 | 185.2 | 188.2 | | 8900 | 1900 | 16 | 46 | 9.57 | 5050 | 1000 | 1450 | | |
| | | | | | | <3 | | | 226 | 188.2 | 191.2 | | 2200 | 1800 | 2 | 17 | 8.45 | 1150 | 28 | 1250 | | |

883057

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 1
TENEMENT NAME LAKE MARGARET No. ELS/85
PLAN - MAP REFERENCE BURNIE SK55-5
DEPTH..... HOLE No. R/13
DPO No(s) 319990

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED.....
RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED.....

DEPTH..... HOLE No. R/13
DPO No(s) 319990

| DEPTH | | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPT | Au ON PPB | Au PPB CHECKS | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by A.L.S.(B.R.S.)) | | | | | | | | | |
|----------|--------|---------------|-----------|-------------|---------------|-----------|---------------|---|------------|----------|--------|---------|---|------|----|-----|------|------|------|------|------|------|
| From (M) | To (M) | | | | | | | | | | | | Cu | Zn | Ag | As | Fe | Mn | Pb | Ba | XRF1 | XRF1 |
| | | | | | | <3 | | | 1230218 | 0 | 3 | | 1050 | 1050 | 1 | 8 | 2.12 | 470 | 32 | 310 | | |
| | | | | | | <3 | | | 1230249 | 3 | 6 | | 1050 | 940 | 1 | 6 | 1.95 | 70 | 16 | 200 | | |
| | | | | | | <3 | | | 250 | 6 | 9 | | 4000 | 3700 | 1 | 6 | 2.32 | 60 | 20 | 110 | | |
| | | | | | | I.S. | | | 251 | 9 | 12 | | 5800 | 5400 | 1 | 6 | 2.71 | 60 | 20 | 170 | | |
| | | | | | | I.S. | | | 252 | 12 | 15 | | 2800 | 2550 | 1 | 8 | 2.89 | 95 | 20 | 110 | | |
| | | | | | | I.S. | | | 253 | 15 | 18 | | 400 | 400 | 1 | 5 | 1.73 | 45 | 20 | 120 | | |
| | | | | | | <3 | | | 254 | 18 | 21 | | 80 | 105 | 1 | 10 | 2.26 | 125 | 152 | 710 | | |
| | | | | | | <3 | | | 255 | 21 | 24 | | 30 | 65 | 1 | 9 | 1.47 | 95 | 152 | 610 | | |
| | | | | | | <3 | | | 256 | 24 | 27 | | 55 | 200 | 2 | 18 | 2.50 | 145 | 400 | 560 | | |
| | | | | | | <3 | | | 257 | 27 | 30 | | 100 | 130 | 2 | 30 | 4.28 | 185 | 450 | 660 | | |
| | | | | | | <3 | | | 258 | 30 | 33 | | 55 | 240 | 2 | 40 | 5.12 | 280 | 970 | 610 | | |
| | | | | | | <3 | | | 259 | 33 | 36 | | 55 | 390 | 1 | 22 | 6.08 | 950 | 84 | 600 | | |
| | | | | | | <3 | | | 260 | 36 | 39 | | 60 | 280 | 1 | 42 | 4.71 | 185 | 112 | 690 | | |
| | | | | | | <3 | | | 261 | 39 | 42 | | 60 | 280 | 1 | 46 | 5.90 | 220 | 112 | 870 | | |
| | | | | | | 3 | | | 262 | 42 | 45 | | 100 | 195 | 1 | 44 | 5.32 | 250 | 68 | 1000 | | |
| | | | | | | <3 | | | 263 | 45 | 48 | | 95 | 230 | 1 | 48 | 5.97 | 870 | 152 | 810 | | |
| | | | | | | <3 | | | 264 | 48 | 51 | | 85 | 260 | 1 | 75 | 4.52 | 2350 | 210 | 650 | | |
| | | | | | | <3 | <3 | | 265 | 51 | 54 | | 130 | 200 | 2 | 120 | 4.55 | 1400 | 188 | 720 | | |
| | | | | | | <3 | | | 266 | 54 | 57 | | 100 | 360 | 2 | 350 | 6.88 | 3400 | 490 | 760 | | |
| | | | | | | <3 | | | 267 | 57 | 60 | | 85 | 220 | 1 | 65 | 4.10 | 1800 | 240 | 820 | | |
| | | | | | | <3 | | | 268 | 60 | 63 | | 80 | 240 | 1 | 80 | 3.11 | 990 | 140 | 700 | | |
| | | | | | | <3 | | | 269 | 63 | 66 | | 80 | 330 | 1 | 70 | 3.17 | 950 | 172 | 660 | | |
| | | | | | | <3 | | | 270 | 66 | 69 | | 95 | 960 | 1 | 80 | 3.32 | 900 | 156 | 850 | | |
| | | | | | | <3 | | | 271 | 69 | 72 | | 55 | 170 | 1 | 55 | 3.25 | 1000 | 120 | 860 | | |
| | | | | | | <3 | | | 272 | 72 | 75 | | 70 | 420 | 2 | 44 | 4.89 | 1550 | 330 | 1050 | | |
| | | | | | | <3 | | | 273 | 75 | 78 | | 120 | 185 | 1 | 28 | 5.23 | 2400 | 116 | 1350 | | |
| | | | | | | <3 | | | 274 | 78 | 81 | | 130 | 620 | 1 | 60 | 5.29 | 1300 | 188 | 1150 | | |
| | | | | | | 3 | <3 | | 275 | 81 | 84 | | 140 | 250 | 2 | 75 | 3.38 | 720 | 128 | 1150 | | |
| | | | | | | <3 | | | 276 | 84 | 87 | | 70 | 1750 | 3 | 125 | 5.46 | 1950 | 1650 | 980 | | |
| | | | | | | <3 | | | 277 | 87 | 90 | | 60 | 1850 | 3 | 125 | 5.55 | 2200 | 1950 | 970 | | |
| | | | | | | <3 | | | 278 | 90 | 93 | | 80 | 7650 | 5 | 110 | 5.35 | 2300 | 3950 | 1050 | | |

883059

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 3
TENEMENT NAME LAKE MARGARET No. E2 5/85
PLAN - MAP REFERENCE BURNIE SK55-5
DEPTH..... HOLE No. R113 051
COMPLETED..... DPO No(s) 320550

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED.....
RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED.....

| DEPTH | | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by...ALS(BRIS)) | | | | | | | | | | | | |
|----------|--------|---------------|-----------|-------------|------------------|---|------------|----------|--------|---------|--|----------|----------|-----------|-----------|-----------|-----------|------------|------------|------------|--|------|----|
| From (M) | To (M) | | | | | | | | | | Mn (CS50) | Pb (XRF) | Ba (XRF) | Cu (CS50) | Zn (CS50) | Ag (CS50) | As (CS50) | Fe% (CS50) | Pb% (CS50) | As% (CS50) | | | |
| | | | | | | | 1230310 | 186 | 189 | | 2300 | 5200 | 1.32% | | | | | | | | | | 45 |
| | | | | | | | 311 | 189 | 192 | | 1400 | 1.31% | 14.2% | | | | | | | | | | 5 |
| | | | | | | | 312 | 192 | 195 | | 2650 | 1000 | 5150 | | | | | | | | | | 43 |
| | | | | | | | 313 | 195 | 198 | | 3450 | 440 | 5400 | | | | | | | | | | 43 |
| | | | | | | | 314 | 198 | 201 | | 2250 | 2150 | 1.70% | | | | | | | | | | 43 |
| | | | | | | | 315 | 201 | 204 | | 2250 | 750 | 4900 | | | | | | | | | | 5 |
| | | | | | | | 316 | 204 | 207 | | 1650 | 280 | 1650 | | | | | | | | | | 5 |
| | | | | | | | 317 | 207 | 210 | | 2300 | 880 | 1900 | | | | | | | | | | 40 |
| | | | | | | | 318 | 210 | 213 | | 1650 | 210 | 1100 | | | | | | | | | | 43 |
| | | | | | | | 319 | 213 | 216 | | 1800 | 170 | 1300 | | | | | | | | | | 43 |
| | | | | | | | 320 | 216 | 219 | | 2600 | 56 | 1650 | | | | | | | | | | 43 |
| | | | | | | | 321 | 219 | 222 | | 2050 | 380 | 1400 | | | | | | | | | | 5 |
| | | | | | | | 322 | 222 | 225 | | 1750 | 156 | 1350 | | | | | | | | | | 43 |
| | | | | | | | 323 | 225 | 228 | | 1950 | 56 | 3100 | | | | | | | | | | 43 |
| | | | | | | | 324 | 228 | 231 | | 2700 | 112 | 1400 | | | | | | | | | | 43 |
| | | | | | | | 325 | 231 | 234 | | 1900 | 176 | 3000 | | | | | | | | | | 43 |
| | | | | | | | 326 | 234 | 237 | | 1800 | 92 | 2250 | | | | | | | | | | 43 |
| | | | | | | | 327 | 237 | 240 | | 1100 | 64 | 1950 | | | | | | | | | | 43 |
| | | | | | | | 328 | 240 | 243 | | 1250 | 32 | 4950 | | | | | | | | | | 43 |
| | | | | | | | 329 | 243 | 246 | | 5 | 84 | 7400 | | | | | | | | | | 43 |
| | | | | | | | 330 | 246 | 249 | | 1350 | 116 | 2700 | | | | | | | | | | 43 |
| | | | | | | | 331 | 249 | 252 | | 1200 | 820 | 2800 | | | | | | | | | | 43 |
| | | | | | | | 332 | 252 | 255 | | 1150 | 250 | 2250 | | | | | | | | | | 43 |
| | | | | | | | 333 | 255 | 258 | | 1200 | 1750 | 1.70% | | | | | | | | | | 43 |
| | | | | | | | 334 | 258 | 261 | | 2100 | 370 | 3600 | | | | | | | | | | 43 |
| | | | | | | | 335 | 261 | 264 | | 1650 | 192 | 4500 | | | | | | | | | | 43 |
| | | | | | | | 336 | 264 | 267 | | 2600 | 116 | 2350 | | | | | | | | | | 43 |
| | | | | | | | 337 | 267 | 270 | | 2550 | 60 | 2350 | | | | | | | | | | 43 |
| | | | | | | | 338 | 270 | 273 | | 2800 | 44 | 1400 | | | | | | | | | | 43 |
| | | | | | | | 339 | 273 | 276 | | 2050 | 68 | 2600 | | | | | | | | | | 43 |
| | | | | | | | 340 | 276 | 279 | | 600 | 29 | 1800 | 580 | 510 | 2 | 11 | | | | | 3.81 | 43 |

883061

CRA EXPLORATION PTY. LTD.

060

| SAMPLE NUMBER | DDH RH14R | | | ANALYSES | | | | | | | | | | Geological Observations | | |
|--------------------------------|-----------|-------------|------------|----------|-------|-------|-----------------------------|-------|-------|-------|-----|------------|-----|-------------------------|--|---------------|
| | INTERVAL | Sample Type | | Cu | Pb | Zn | Ag | As | Fe | Mn | Pb | Au | Au | Ba | | |
| From m | To m | | IC580 | IC580 | IC580 | IC580 | IC580 | % | | | | ppb | ppb | | | |
| | | | | | | | | | | | | CHECKS | | | | |
| 230356 | 35 | 38 | core grind | 270 | 30 | 320 | 1 | 7 | 0.91 | 1950 | 35 | 80 | | 1500 | | |
| 357 | 38 | 41 | " | 25 | <5 | 80 | <1 | 5 | 1.06 | 1900 | 5 | <3 | | 1100 | | |
| 358 | 41 | 44 | " | 80 | 40 | 195 | <1 | 3 | 1.13 | 1450 | 35 | <3 | | 1350 | | |
| 359 | 44 | 47 | " | 350 | 85 | 880 | <1 | 3 | 1.55 | 1200 | 75 | 90 | | 1050 | | |
| 360 | 47 | 50 | " | 20 | 45 | 240 | <1 | 3 | 1.39 | 2000 | 35 | <3 | | 890 | | |
| 361 | 50 | 53 | " | 100 | 15 | 240 | <1 | 3 | 2.05 | 760 | 20 | <3 | | 860 | | |
| 362 | 53 | 56 | " | 20 | 140 | 210 | <1 | 6 | 2.23 | 1250 | 120 | <3 | | 900 | | |
| 363 | 56 | 59 | " | 40 | 200 | 560 | <1 | 2 | 1.22 | 770 | 130 | <3 | | 800 | | |
| 364 | 59 | 62 | " | 25 | 30 | 160 | <1 | 2 | 2.32 | 910 | 20 | <3 | <3 | 750 | | |
| 365 | 62 | 65 | " | 80 | <5 | 170 | <1 | 3 | 1.67 | 1400 | 10 | 5 | | 740 | | |
| 366 | 65 | 68 | " | 175 | <5 | 210 | <1 | 2 | 0.95 | 920 | <5 | <3 | | 620 | | |
| 367 | 68 | 71 | " | 30 | <5 | 70 | <1 | 3 | 1.80 | 1900 | <5 | <3 | | 590 | | |
| 368 | 71 | 74 | " | 30 | <5 | 125 | <1 | 3 | 2.41 | 3050 | 10 | <3 | | 990 | | |
| 369 | 74 | 77 | " | 65 | <5 | 190 | <1 | 1 | 4.40 | 2550 | <5 | <3 | | 1050 | | |
| 370 | 77 | 80 | " | 40 | <5 | 165 | <1 | 2 | 3.11 | 1550 | 10 | <3 | | 940 | | |
| 371 | 80 | 83 | " | 25 | 15 | 240 | <1 | 2 | 2.65 | 1300 | 15 | <3 | | 1100 | | |
| 372 | 83 | 86 | " | 10 | 5 | 135 | <1 | 2 | 2.73 | 1150 | 15 | <3 | | 750 | | |
| 373 | 86 | 89 | " | 15 | 5 | 160 | <1 | 1 | 4.03 | 1050 | 5 | <3 | | 600 | | |
| 374 | 89 | 92 | " | 15 | 25 | 145 | <1 | 2 | 3.22 | 1900 | 20 | <3 | <3 | 530 | | |
| 1230375 | 92 | 95 | " | 35 | 20 | 160 | <1 | 2 | 2.94 | 2100 | 20 | <3 | | 590 | | |
| DETECTION LIMIT | | | | 2 | 5 | 2 | 1 | 1 | 0.01 | 5 | 5 | 3 | | 10 | | |
| ANALYTICAL METHOD | | | | IC580 | IC580 | IC580 | IC580 | IC580 | IC580 | IC580 | XRF | PM205 | | XRF | | |
| Project : Queestown - Zeehan | | | | | | | 1 : 250 000 Sheet : SK 55-5 | | | | | AMG Zone : | | Sheet No. : 1 | | |
| Tenement : L. Margaret EL 5/85 | | | | | | | DPO's : 35014 | | | | | | | Laboratory : ALS | | |
| Area / Prospect : Red Hills | | | | | | | | | | | | | | Collected By : AG | | Date : May 87 |

883062

CRA EXPLORATION PTY. LTD.

061

| SAMPLE NUMBER | DDH RH 14R | | Sample Type | ANALYSES | | | | | | | | | | Geological Observations | |
|-------------------|------------|--------|--------------|----------|-------|-------|-------|-------|-------|-------|-----|--------|---------------|-------------------------|--|
| | From (m) | To (m) | | Cu | Pb | Zn | Ag | As | Fe % | Mn | Pb | Au ppb | Au ppb checks | Ba | |
| 1230376 | 95 | 98 | core, ground | 95 | 10 | 270 | <1 | 2 | 4.22 | 1300 | 15 | <3 | | 720 | |
| 377 | 98 | 101 | " | 40 | 10 | 165 | <1 | 1 | 2.63 | 1450 | 5 | <3 | | 810 | |
| 378 | 101 | 104 | " | 80 | <5 | 190 | <1 | 2 | 2.19 | 1100 | 10 | <3 | | 960 | |
| 379 | 104 | 107 | " | 90 | 5 | 180 | <1 | 3 | 2.03 | 1400 | 10 | <3 | | 760 | |
| 380 | 107 | 110 | " | 80 | <5 | 140 | <1 | <1 | 1.41 | 1350 | 5 | <3 | | 720 | |
| 381 | 110 | 113 | " | 25 | <5 | 85 | <1 | 2 | 1.99 | 1700 | <5 | <3 | | 850 | |
| 382 | 113 | 116 | " | 10 | 35 | 105 | <1 | 2 | 2.41 | 2200 | 25 | <3 | | 760 | |
| 383 | 116 | 119 | " | 10 | 10 | 130 | <1 | 1 | 2.44 | 1450 | 20 | <3 | | 640 | |
| 384 | 119 | 122 | " | 15 | 95 | 115 | <1 | 1 | 2.28 | 1600 | 85 | <3 | <3 | 770 | |
| 385 | 122 | 125 | " | 10 | 15 | 120 | <1 | 1 | 2.42 | 1350 | 20 | <3 | | 880 | |
| 386 | 125 | 128 | " | 25 | 10 | 110 | <1 | 3 | 1.32 | 960 | 10 | <3 | | 730 | |
| 387 | 128 | 131 | " | 15 | 15 | 125 | <1 | 2 | 1.98 | 1500 | 15 | <3 | | 1000 | |
| 388 | 131 | 134 | " | 30 | 20 | 380 | <1 | 2 | 2.00 | 2200 | 20 | <3 | | 1200 | |
| 389 | 134 | 137 | " | 90 | 25 | 690 | <1 | 3 | 1.62 | 1950 | 35 | <3 | | 990 | |
| 390 | 137 | 140 | " | 65 | 20 | 730 | <1 | 2 | 1.37 | 3100 | 25 | <3 | | 1100 | |
| 391 | 140 | 143 | " | 45 | 15 | 170 | <1 | 5 | 2.67 | 5750 | 20 | <3 | | 2200 | |
| 392 | 143 | 146 | " | 65 | 20 | 110 | <1 | 3 | 2.82 | 3850 | 15 | <3 | | 1700 | |
| 393 | 146 | 149 | " | 70 | <5 | 155 | <1 | 3 | 1.77 | 2300 | 5 | <3 | | 1900 | |
| 394 | 149 | 152 | " | 80 | 125 | 360 | <1 | 5 | 2.63 | 3300 | 100 | <3 | | 2050 | |
| 1230395 | 152 | 155 | " | 60 | 15 | 125 | <1 | 5 | 2.42 | 3050 | 25 | <3 | | 2600 | |
| DETECTION LIMIT | | | | 2 | 5 | 2 | 1 | 1 | 0.01 | 5 | 5 | 3 | | 10 | |
| ANALYTICAL METHOD | | | | IC580 | IC580 | IC580 | IC580 | IC580 | IC580 | IC580 | XRF | PM205 | | XRF | |

| | | | | | |
|-----------------|---------------------|-----------------|---------|----------|----------------------------------|
| Project | Q'town - Zeehan | 1 250 000 Sheet | SK 55-5 | AMG Zone | Sheet No. : 2 |
| Tenement | L. Margaret EL 5/85 | DPO's | 35014 | | Laboratory : ALS |
| Area / Prospect | Red Hills | | | | Collected By : AG Date : May '87 |

883064

CRA EXPLORATION PTY. LTD.

063

| SAMPLE NUMBER | DDH RH 14R. | | ANALYSES | | | | | | | | | | Geological Observations | |
|--------------------------------|-------------|--------|-----------------------------|----|----|----|------------|--|--|--|-------------------|--|-------------------------|--|
| | From (m) | To (m) | Sample Type | Cu | Pb | Zn | | | | | | | Au ppm | |
| 1230416 | 215 | 218 | | | | | | | | | | | | |
| 417 | 218 | 221 | | | | | | | | | | | | |
| 418 | 221 | 224 | | | | | | | | | | | | |
| 419 | 224 | 227 | | | | | | | | | | | | |
| 420 | 227 | 230 | | | | | | | | | | | | |
| 421 | 230 | 233 | | | | | | | | | | | | |
| 422 | 233 | 236 | | | | | | | | | | | | |
| 423 | 236 | 239 | | | | | | | | | | | | |
| 424 | 239 | 242 | | | | | | | | | | | | |
| 425 | 242 | 245 | | | | | | | | | | | | |
| 426 | 245 | 248 | | | | | | | | | | | | |
| 427 | 248 | 251 | | | | | | | | | | | | |
| 428 | 251 | 254 | | | | | | | | | | | | |
| 429 | 254 | 257 | | | | | | | | | | | | |
| 430 | 257 | 260 | | | | | | | | | | | | |
| 431 | 260 | 263 | | | | | | | | | | | | |
| 432 | 263 | 266 | | | | | | | | | | | | |
| 433 | 266 | 269 | | | | | | | | | | | | |
| 434 | 269 | 272 | | | | | | | | | | | | |
| 1230435 | 272 | 275 | | | | | | | | | | | | |
| DETECTION LIMIT | | | | | | | | | | | | | | |
| ANALYTICAL METHOD | | | | | | | | | | | | | | |
| Project : Queenstown - Zeehan | | | 1 : 250 000 Sheet : SK 55-S | | | | AMG Zone : | | | | Sheet No. : 4 | | | |
| Tenement : L. Margaret EL 5/85 | | | DPO's : 35014 | | | | | | | | Laboratory : ALS | | | |
| Area / Prospect : Red Hills | | | | | | | | | | | Collected By : AE | | Date : May '87 | |

883065

CRA EXPLORATION PTY. LTD.

064

| SAMPLE NUMBER | DDH RH 14 R | | | ANALYSES | | | | | | | | Geological Observations | |
|--------------------------------|-------------|-----|--------------|-------------------------------|----|----|--|------------|--|--|--------|---------------------------------|--|
| | INTERVAL | | Sample Type | Cu | Pb | Zn | | | | | Au ppm | | |
| From (m) | To (m) | | | | | | | | | | | | |
| 1230436 | 275 | 278 | core quid | | | | | | | | | | |
| 437 | 278 | 281 | " | | | | | | | | | | |
| 438 | 281 | 284 | " | | | | | | | | | | |
| 439 | 284 | 287 | " | | | | | | | | | | |
| 440 | 287 | 290 | " | | | | | | | | | | |
| 441 | 290 | 293 | " | | | | | | | | | | |
| 442 | 293 | 296 | " | | | | | | | | | | |
| 443 | 296 | 299 | " | | | | | | | | | | |
| 444 | 299 | 302 | " | | | | | | | | | | |
| 445 | 302 | 305 | " | | | | | | | | | | |
| 446 | 305 | 308 | " | | | | | | | | | | |
| 447 | 308 | 311 | " | | | | | | | | | | |
| 448 | 311 | 314 | " | | | | | | | | | | |
| 449 | 314 | 317 | " | | | | | | | | | | |
| 450 | 317 | 320 | " | | | | | | | | | | |
| 451 | 320 | 323 | " | | | | | | | | | | |
| 452 | 323 | 326 | " | | | | | | | | | | |
| 453 | 326 | 329 | " | | | | | | | | | | |
| 454 | 329 | 332 | " | | | | | | | | | | |
| 1230455 | 332 | 335 | " | | | | | | | | | | |
| DETECTION LIMIT | | | | | | | | | | | | | |
| ANALYTICAL METHOD | | | | | | | | | | | | | |
| Project : Queenstown - Zeehan | | | | 1 : 250 000 Sheet : SK 55 - S | | | | AMG Zone : | | | | Sheet No. : 5 | |
| Tenement : L. Margaret EL 5/85 | | | | DPO's : 35014 | | | | | | | | Laboratory : ALS Brisbane | |
| Area / Prospect : Red Hills | | | | | | | | | | | | Collected By : AE Date : May 87 | |

883066

CRA EXPLORATION PTY. LTD.

085

| SAMPLE NUMBER | DDH RH 14R | | Sample Type | ANALYSES | | | | | | | Geological Observations | |
|-------------------|------------|--------|---------------|----------|----|----|--|--|--|------|-------------------------|---|
| | From (m) | To (m) | | Cu | Pb | Zn | | | | | Au ppm | |
| 1230456 | 335 | 338 | core quid | | | | | | | | | |
| 457 | 338 | 341 | " | | | | | | | | | |
| 458 | 341 | 344 | " | | | | | | | | | |
| 459 | 344 | 347 | " | | | | | | | | | |
| 460 | 347 | 350 | " | | | | | | | | | |
| 461 | 350 | 353 | " | | | | | | | | | |
| 462 | 353 | 356 | " | | | | | | | | | |
| 1230463 | 356 | 360.6 | " | | | | | | | | | |
| 2825 | 360.6 | 362 | split core | | | | | | | <0.1 | Goldfields Results | |
| 2826 | 362 | 363.4 | " | | | | | | | 0.4 | " | " |
| 2827 | 363.4 | 364.8 | " | | | | | | | 0.8 | " | " |
| 2828 | 364.8 | 365.9 | " | | | | | | | 0.4 | " | " |
| 2829 | 365.9 | 366.9 | " | | | | | | | 2.6 | " | " |
| 2830 | 366.9 | 368.3 | " | | | | | | | 1.3 | " | " |
| 2831 | 368.3 | 369.7 | " | | | | | | | 2.8 | " | " |
| 2832 | 369.7 | 371.1 | " | | | | | | | 0.2 | " | " |
| 2833 | 371.1 | 372.7 | " | | | | | | | 0.1 | " | " |
| 2834 | 372.7 | 379 | " | | | | | | | <0.1 | " | " |
| 2835 | 379 | 381 | " | | | | | | | <0.1 | " | " |
| 2836 | 381 | 383 | " | | | | | | | <0.1 | " | " |
| DETECTION LIMIT | | | | | | | | | | | | |
| ANALYTICAL METHOD | | | | | | | | | | | | |

| | | | | | | |
|----------------|---------------------|-----------------|---------|------------|--------------|--------|
| Project | Queensdown - Zeehan | 1 250 000 Sheet | SK 55-9 | AMG Zone : | Sheet No. : | 6 |
| Tenement | L. Margaret RL 5/85 | DPO's | 35014 | | Laboratory : | ALS |
| Lea / Prospect | Red Hills | | | | Collected By | AE |
| | | | | | Date : | May 87 |

883067

CRA EXPLORATION PTY. LTD.

0966

| SAMPLE NUMBER | DDH RH 14R | | ANALYSES | | | | | | | Geological Observations | |
|-------------------|------------|--------|-------------|----|----|----|--|--|--|-------------------------|----------------------|
| | From (m) | To (m) | Sample Type | Cu | Pb | Zn | | | | Au ppm | |
| 2837 | 383 | 385 | split core | | | | | | | <0.1 | (Goldfields Results) |
| 2838 | 385 | 387 | " | | | | | | | <0.1 | " |
| 2839 | 387 | 389 | " | | | | | | | 0.1 | " |
| 2840 | 389 | 391 | " | | | | | | | <0.1 | " |
| 2841 | 391 | 393 | " | | | | | | | <0.1 | " |
| 2842 | 393 | 395 | " | | | | | | | <0.1 | " |
| 2843 | 395 | 397 | " | | | | | | | <0.1 | " |
| 2844 | 397 | 398.5 | " | | | | | | | <0.1 | " |
| 2845 | 398.5 | 400 | " | | | | | | | <0.1 | " |
| 2846 | 400 | 402 | " | | | | | | | <0.1 | " |
| 2847 | 402 | 404 | " | | | | | | | <0.1 | " |
| 2848 | 404 | 406 | " | | | | | | | <0.1 | " |
| 2849 | 406 | 408 | " | | | | | | | <0.1 | " |
| 2850 | 408 | 410 | " | | | | | | | <0.1 | " |
| 2851 | 410 | 412 | " | | | | | | | <0.1 | " |
| 2852 | 412 | 414 | " | | | | | | | <0.1 | " |
| 2853 | 414 | 416 | " | | | | | | | <0.1 | " |
| 2854 | 416 | 418 | " | | | | | | | <0.1 | " |
| 2855 | 418 | 420 | " | | | | | | | <0.1 | " |
| 2856 | 420 | 422 | " | | | | | | | <0.1 | " |
| DETECTION LIMIT | | | | | | | | | | 0.1 | |
| ANALYTICAL METHOD | | | | | | | | | | | |

| | | | | |
|-----------------|---------------------|---------------------------|------------|------------------------------------|
| Project | Queenstown - Zeehan | 1 250 000 Sheet : SK 55-5 | AMG Zone : | Sheet No. : 7 |
| Tenement | L. Margaret EL 5/85 | DPO's : - 35014 | | Laboratory : |
| Area / Prospect | Red Hills | | | Collected By : AE Date : May 87 |

883068

CRA EXPLORATION PTY. LTD.

067

| SAMPLE NUMBER | DDH RH 14R | | | ANALYSES | | | | | | | Geological Observations | |
|-------------------|------------|-----|-------------|----------|----|----|--|--|--|--------|-------------------------|----------------------|
| | INTERVAL | | Sample Type | Cu | Pb | Zn | | | | Au ppm | | |
| From (m) | To (m) | | | | | | | | | | | |
| 2857 | 422 | 424 | split core | | | | | | | <0.1 | | (Goldfields Results) |
| 2858 | 424 | 426 | " | | | | | | | <0.1 | | " |
| 2859 | 426 | 428 | " | | | | | | | <0.1 | | " |
| 2860 | 428 | 430 | " | | | | | | | <0.1 | | " |
| 2861 | 430 | 432 | " | | | | | | | <0.1 | | " |
| 2862 | 432 | 434 | " | | | | | | | <0.1 | | " |
| 2863 | 434 | 436 | " | | | | | | | <0.1 | | " |
| 2864 | 436 | 438 | " | | | | | | | <0.1 | | " |
| 2865 | 438 | 440 | " | | | | | | | <0.1 | | " |
| 2866 | 440 | 442 | " | | | | | | | <0.1 | | " |
| 230464 | 442 | 445 | core grind | | | | | | | | | |
| 465 | 445 | 448 | " | | | | | | | | | |
| 466 | 448 | 451 | " | | | | | | | | | |
| 467 | 451 | 454 | " | | | | | | | | | |
| 468 | 454 | 457 | " | | | | | | | | | |
| 469 | 457 | 460 | " | | | | | | | | | |
| 470 | 460 | 463 | " | | | | | | | | | |
| 471 | 463 | 466 | " | | | | | | | | | |
| 472 | 466 | 469 | " | | | | | | | | | |
| 1230473 | 469 | 472 | " | | | | | | | | | |
| DETECTION LIMIT | | | | | | | | | | | | |
| ANALYTICAL METHOD | | | | | | | | | | | | |

| | | | |
|--------------------------------|---------------------------|------------|--|
| Project : Queenstown - Zeehan | 1:250 000 Sheet : SK 55-9 | AMG Zone : | Sheet No. : 8 |
| Tenement : L. Margaret EL 5/85 | DPO's : 35014 | | Laboratory : ALS |
| Area / Prospect : Red Hills | | | Collected By : Goldfields / A.E. Date : May 87 |

883071

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

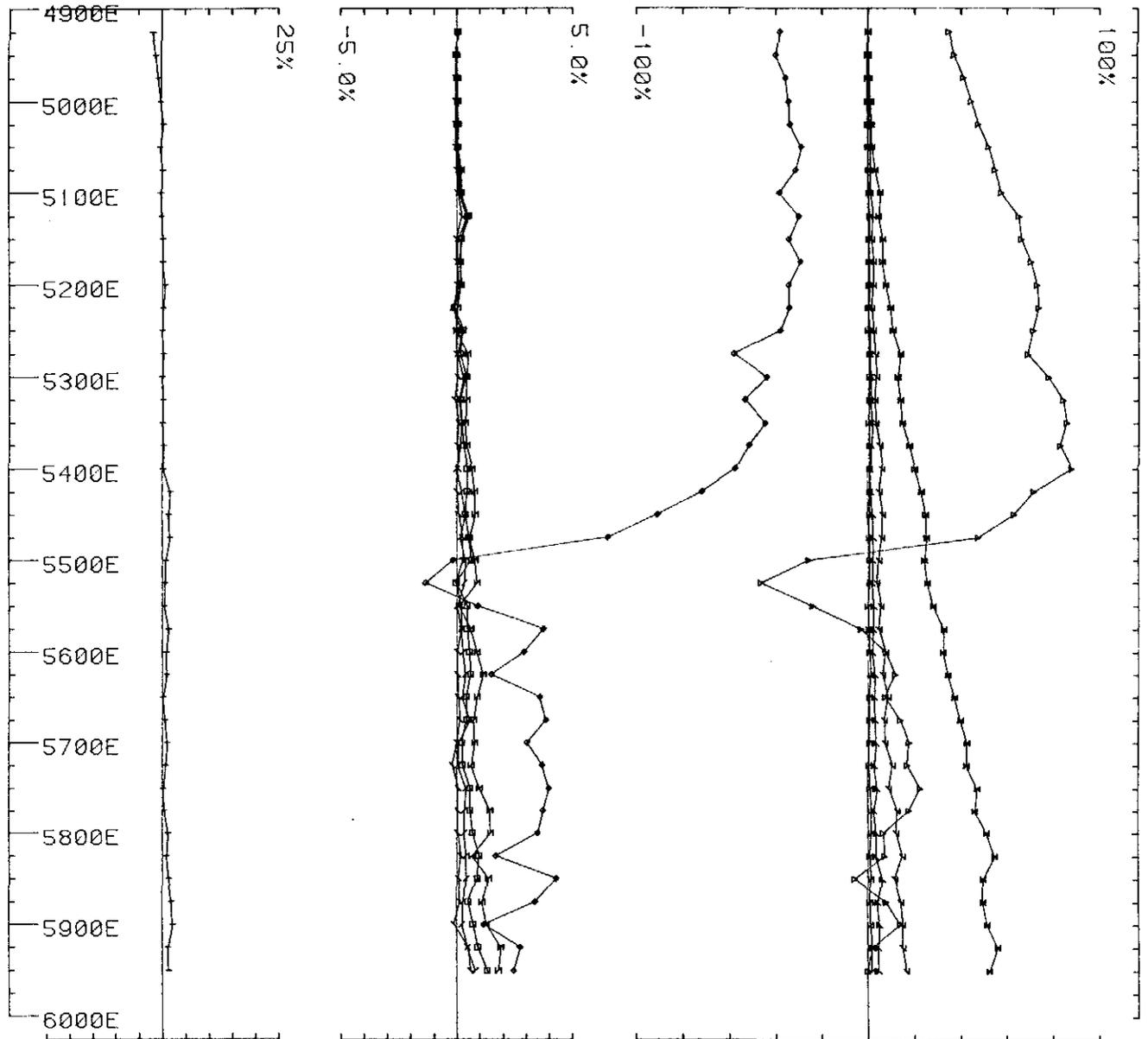
SHEET No. 2/5
TENEMENT NAME LAKE MARGARET No. EL5/85
PLAN - MAP REFERENCE BURNIE SK55-5
DEPTH..... HOLE No. RH83
COMPLETED..... DPO No(s) 350180

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED.....
RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED.....

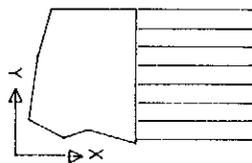
| DEPTH | | Core Rec. (M) | Core Size | Graphic Log | Core Grind. | CORE DESCRIPTION | Au Nppb PM205 | Au ppb check | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by AL5(BRF)) | | | | | | | | | |
|----------|--------|---------------|-----------|-------------|-------------|------------------|---------------|--------------|---|------------|----------|--------|---------|-------------------------------------|---------|--------|---------|---------|---------|----------|---------|--------|--|
| From (M) | To (M) | | | | | | | | | | | | | Cu K580 | Pb K580 | Pb XRF | Zn K580 | Ag K580 | As K580 | Fe% K580 | Mn K580 | Ba YRF | |
| 93.0 | 96.0 | | | | " | | <3 | | | 1232331 | | | | 35 | 30 | 16 | 240 | 1 | 12 | 1.96 | 3100 | 1450 | |
| 96.0 | 99.0 | | | | " | | <3 | | | 332 | | | | 25 | 50 | 36 | 100 | 1 | 10 | 1.55 | 2700 | 1150 | |
| 99.0 | 102.0 | | | | " | | <3 | | | 333 | | | | 40 | 30 | 20 | 180 | 1 | 13 | 1.76 | 1750 | 1750 | |
| 102.0 | 105.0 | | | | " | | <3 | | | 334 | | | | 45 | 20 | 16 | 105 | 1 | 10 | 1.67 | 1150 | 1250 | |
| 105.0 | 108.0 | | | | " | | <3 | | | 335 | | | | 20 | 15 | 4 | 80 | 1 | 9 | 1.47 | 1000 | 1400 | |
| 108.0 | 111.0 | | | | " | | <3 | | | 336 | | | | 20 | 25 | 16 | 75 | 1 | 10 | 1.69 | 1550 | 1250 | |
| 111.0 | 114.0 | | | | " | | <3 | | | 337 | | | | 35 | 40 | 28 | 190 | 1 | 11 | 1.67 | 2000 | 1000 | |
| 114.0 | 117.0 | | | | " | | <3 | | | 338 | | | | 50 | 60 | 56 | 280 | 1 | 9 | 1.51 | 1500 | 660 | |
| 117.0 | 120.0 | | | | " | | <3 | | | 339 | | | | 25 | 55 | 44 | 360 | 1 | 9 | 1.61 | 1500 | 590 | |
| 120.0 | 123.0 | | | | " | | <3 | | | 1232340 | | | | 115 | 80 | 68 | 320 | 1 | 10 | 1.86 | 1300 | 1150 | |
| 123.0 | 126.0 | | | | " | | <3 | | | 341 | | | | 100 | 220 | 180 | 840 | 2 | 30 | 1.69 | 1800 | 690 | |
| 126.0 | 129.0 | | | | " | | <3 | | | 342 | | | | 65 | 30 | 20 | 170 | 1 | 17 | 2.42 | 2200 | 1400 | |
| 129.0 | 132.0 | | | | " | | <3 | | | 343 | | | | 110 | 20 | 12 | 140 | 2 | 16 | 2.97 | 2500 | 1650 | |
| 132.0 | 135.0 | | | | " | | <3 | | | 344 | | | | 70 | 25 | 20 | 130 | 1 | 9 | 1.28 | 2500 | 2700 | |
| 135.0 | 138.0 | | | | " | | <3 | | | 345 | | | | 140 | 25 | 16 | 165 | 1 | 14 | 1.92 | 4100 | 7750 | |
| 138.0 | 141.0 | | | | " | | 10 | | | 346 | | | | 45 | 40 | 32 | 105 | 2 | 36 | 5.78 | 1200 | 3900 | |
| 141.0 | 144.0 | | | | " | | 3 | | | 347 | | | | 65 | 35 | 28 | 195 | 1 | 13 | 2.37 | 4200 | 3300 | |
| 144.0 | 147.0 | | | | " | | 30 | | | 348 | | | | 65 | 50 | 44 | 65 | 2 | 280 | 3.89 | 9400 | 7300 | |
| 147.0 | 150.0 | | | | " | | 5 | | | 349 | | | | 55 | 85 | 68 | 270 | 1 | 40 | 1.89 | 2600 | 1400 | |
| 150.0 | 153.0 | | | | " | | <3 | | | 1232350 | | | | 90 | 90 | 80 | 700 | 1 | 28 | 3.03 | 4900 | 1100 | |
| 153.0 | 156.0 | | | | " | | <3 | | | 351 | | | | 330 | 310 | 312 | 530 | 4 | 28 | 3.39 | 7250 | 1250 | |
| 156.0 | 159.0 | | | | " | | 5 | | | 352 | | | | 85 | 520 | 460 | 650 | 3 | 32 | 2.46 | 4700 | 1150 | |
| 159.0 | 162.0 | | | | " | | 10 | 10 | | 353 | | | | 115 | 420 | 360 | 480 | 2 | 20 | 2.27 | 3050 | 1450 | |
| 162.0 | 165.0 | | | | " | | 10 | 15 | | 354 | | | | 85 | 390 | 328 | 390 | 2 | 22 | 2.28 | 3200 | 1300 | |
| 165.0 | 168.0 | | | | " | | <3 | | | 355 | | | | 85 | 65 | 60 | 170 | 2 | 17 | 2.07 | 2800 | 1100 | |
| 168.0 | 171.0 | | | | " | | 40 | | | 356 | | | | 115 | 105 | 92 | 185 | 2 | 44 | 2.82 | 2550 | 950 | |
| 171.0 | 174.0 | | | | " | | <3 | | | 357 | | | | 45 | 115 | 100 | 920 | 2 | 36 | 3.15 | 2200 | 1200 | |
| 174.0 | 177.0 | | | | " | | <3 | | | 358 | | | | 55 | 1500 | 1350 | 1200 | 4 | 180 | 3.57 | 1400 | 2000 | |
| 177.0 | 180.0 | | | | " | | <3 | | | 359 | | | | 110 | 630 | 620 | 610 | 3 | 90 | 4.44 | 1750 | 1150 | |
| 180.0 | 183.0 | | | | " | | 3 | | | 360 | | | | 95 | 250 | 252 | 1600 | 2 | 140 | 3.93 | 1300 | 960 | |
| 183.0 | 186.0 | | | | " | | <3 | | | 1232361 | | | | 180 | 210 | 220 | 410 | 2 | 44 | 2.15 | 1400 | 1500 | |

074

883075



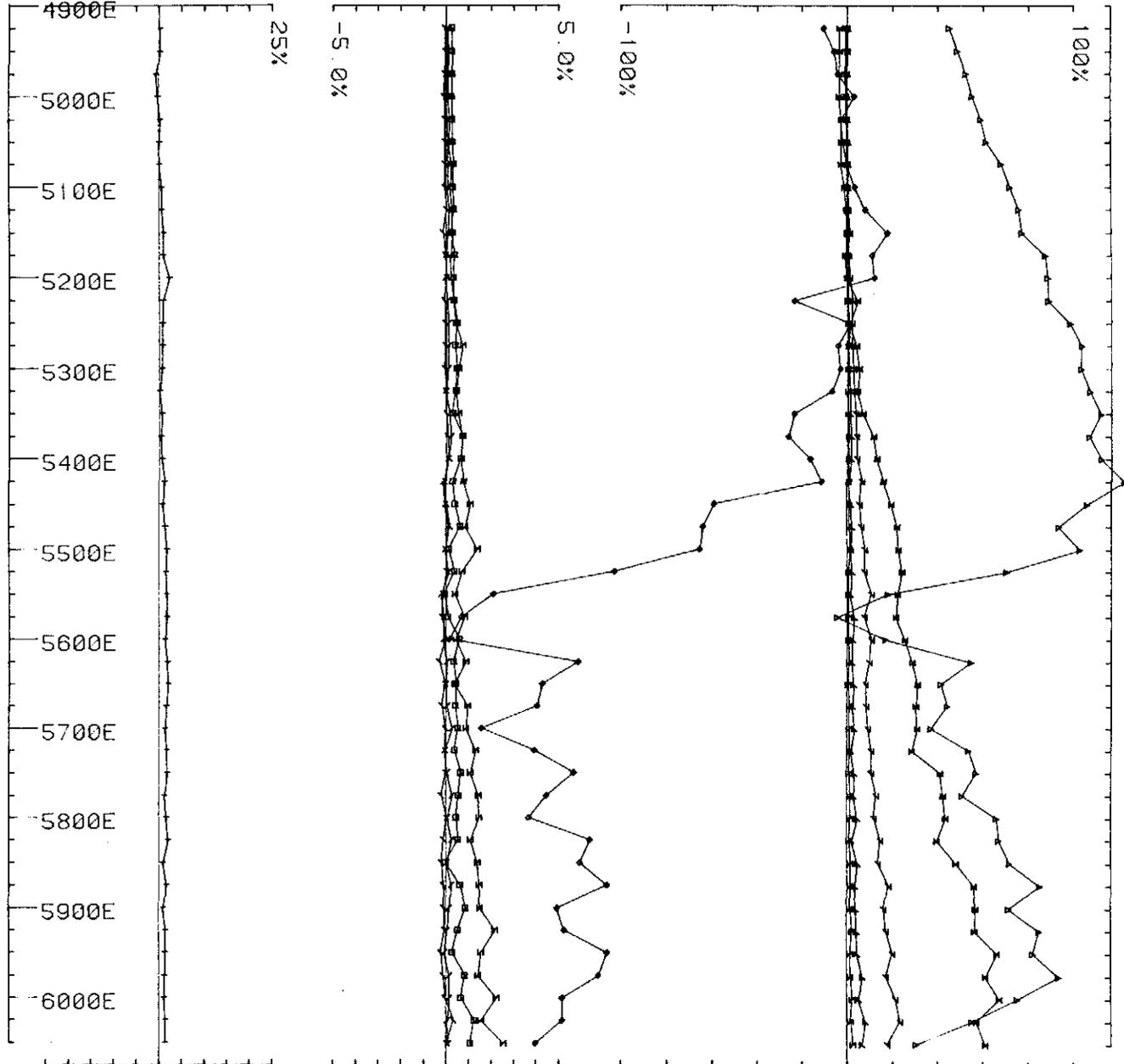
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8702
 AREA :- Redhills
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 20N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



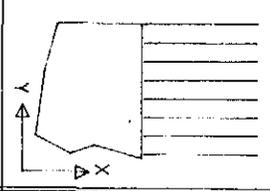
Redhills
 Loop 0001
 LINE 20N
 Hz

075

883076



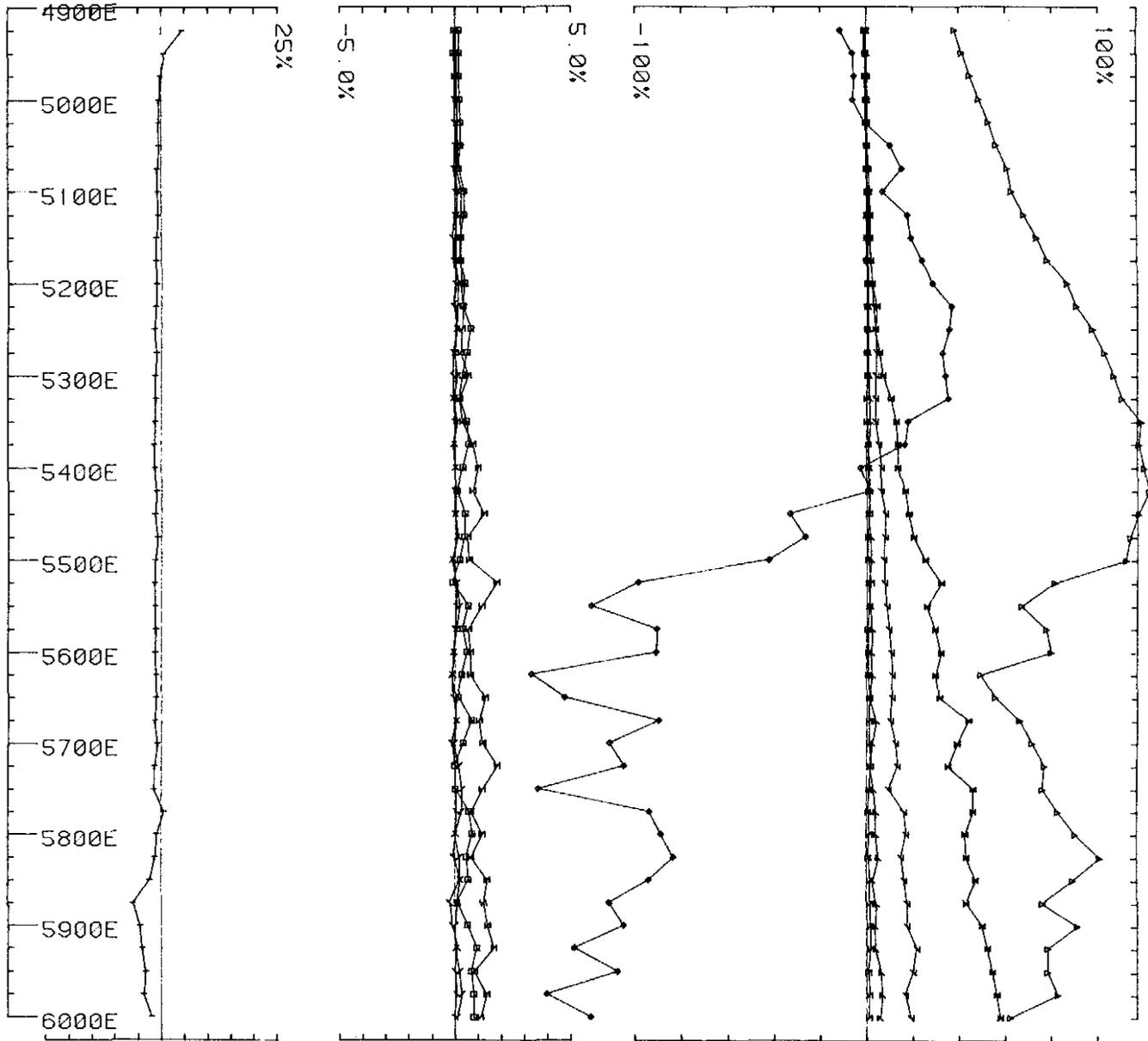
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8702
 AREA :- Redhills
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 14N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



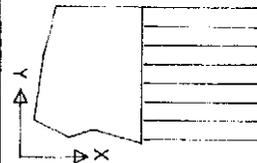
Redhills
 LOOP 0001
 LINE 14N
 Hz

076

883077



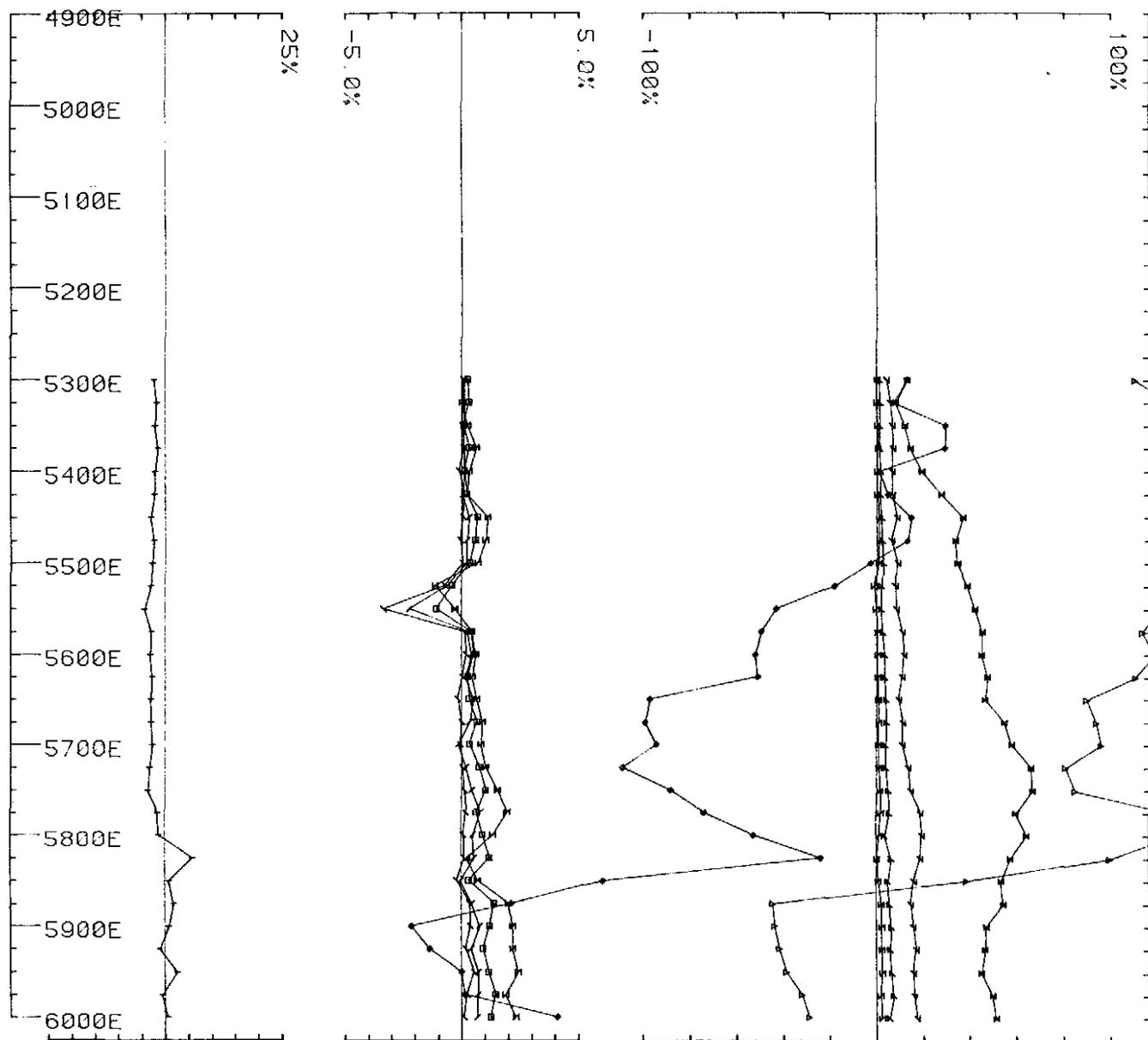
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8702
 AREA :- Redhills
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 8N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS CH 1 NORMALIZATION



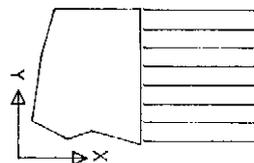
Redhills
 LOOP 0001
 LINE 8N
 Hz

077

883078



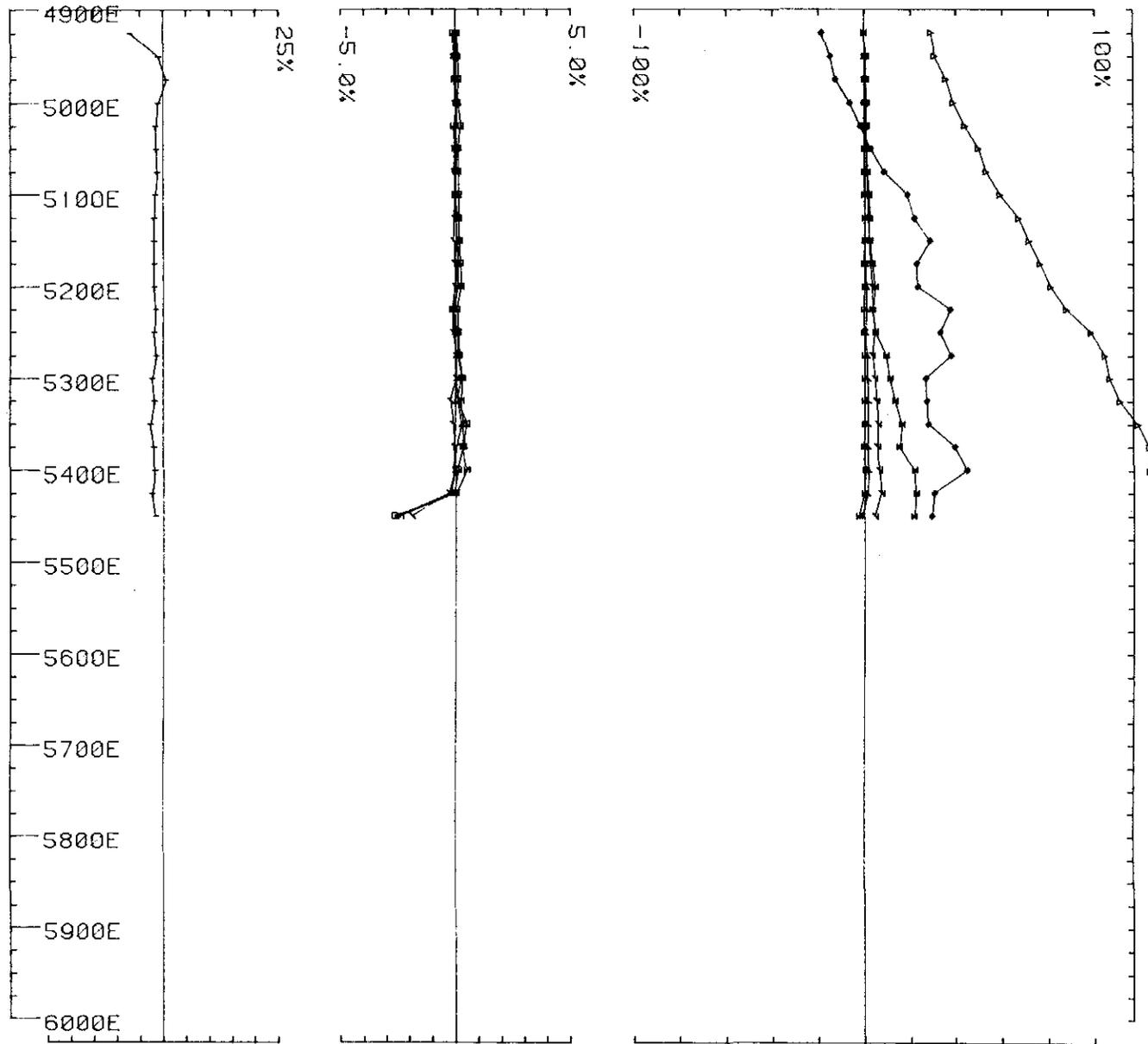
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8702
 AREA :- Redhills
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 6S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



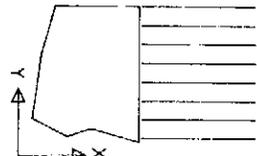
Redhills
 LOOP 0001
 LINE 6S
 Hz

078

883079



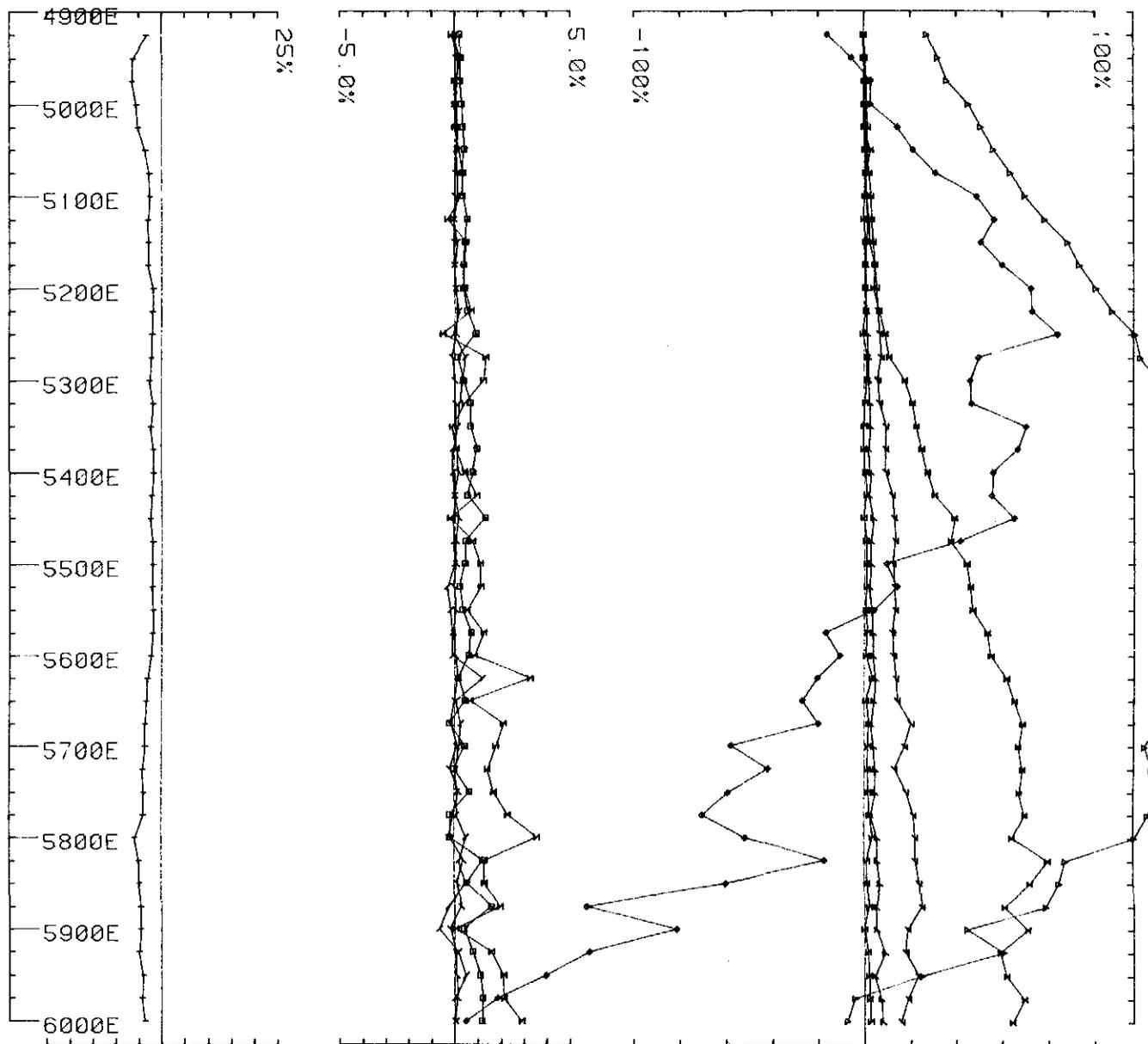
LAMONTAGNE GEOPHYSICS UTEM SURVEY Job 8702
 AREA :- Redhills
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 6S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



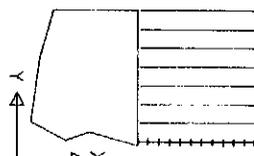
Redhills
 LOOP 0011
 LINE 6S
 Hz

079

883080



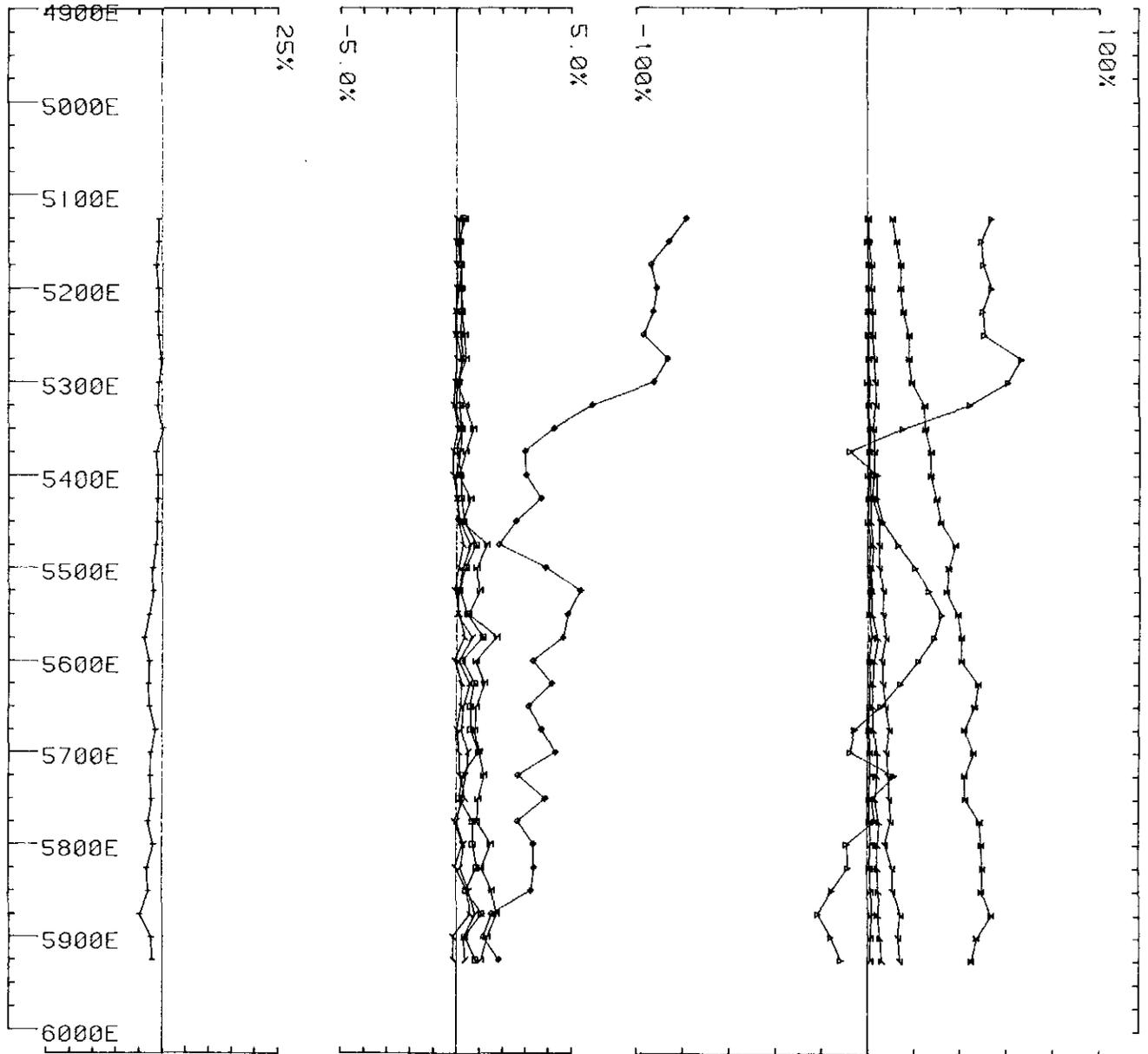
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8702
 AREA :- Redhills
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 12S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



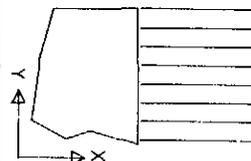
Redhills
 LOOP 0001
 LINE 12S
 Hz

080

883081



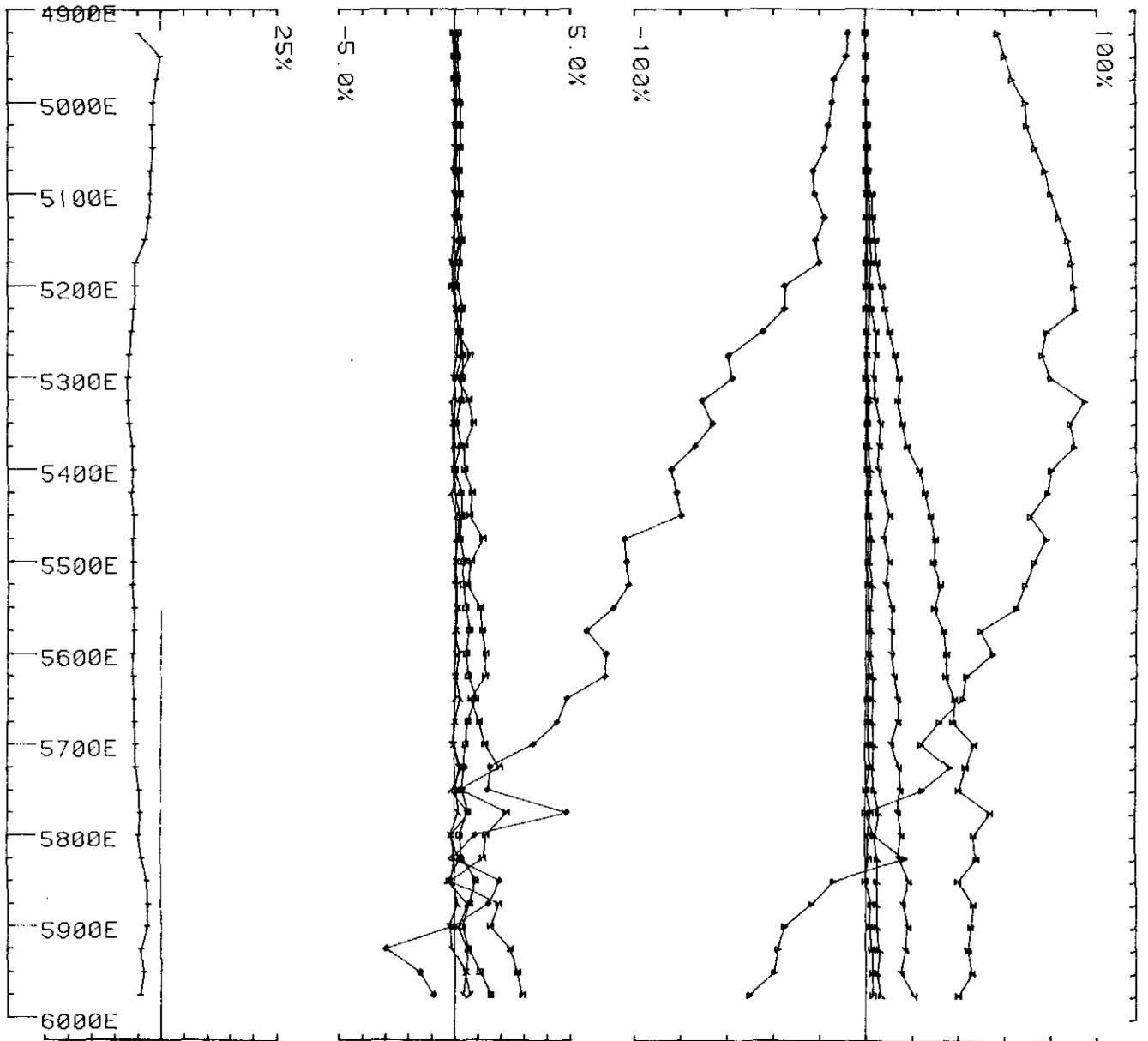
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8702
 AREA :- Redhills
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 26N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



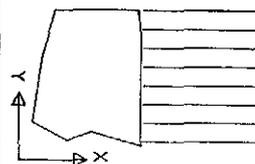
Redhills
 LOOP 0001
 LINE 26N
 Hz

081

883082



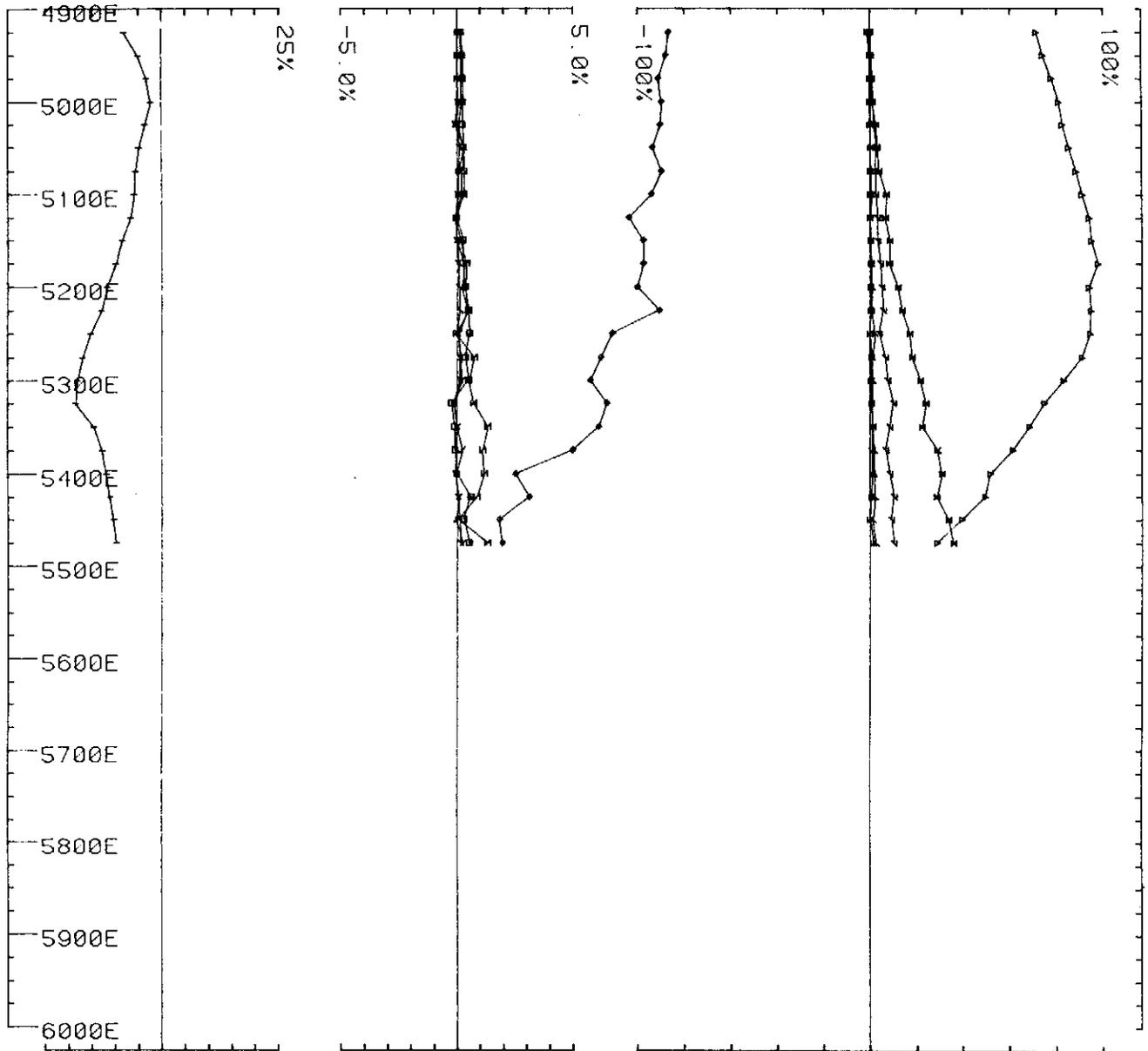
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8702
 AREA :- Redhills
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 32N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



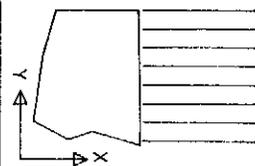
Redhills
 LOOP 0001
 LINE 32N
 Hz

082

883083



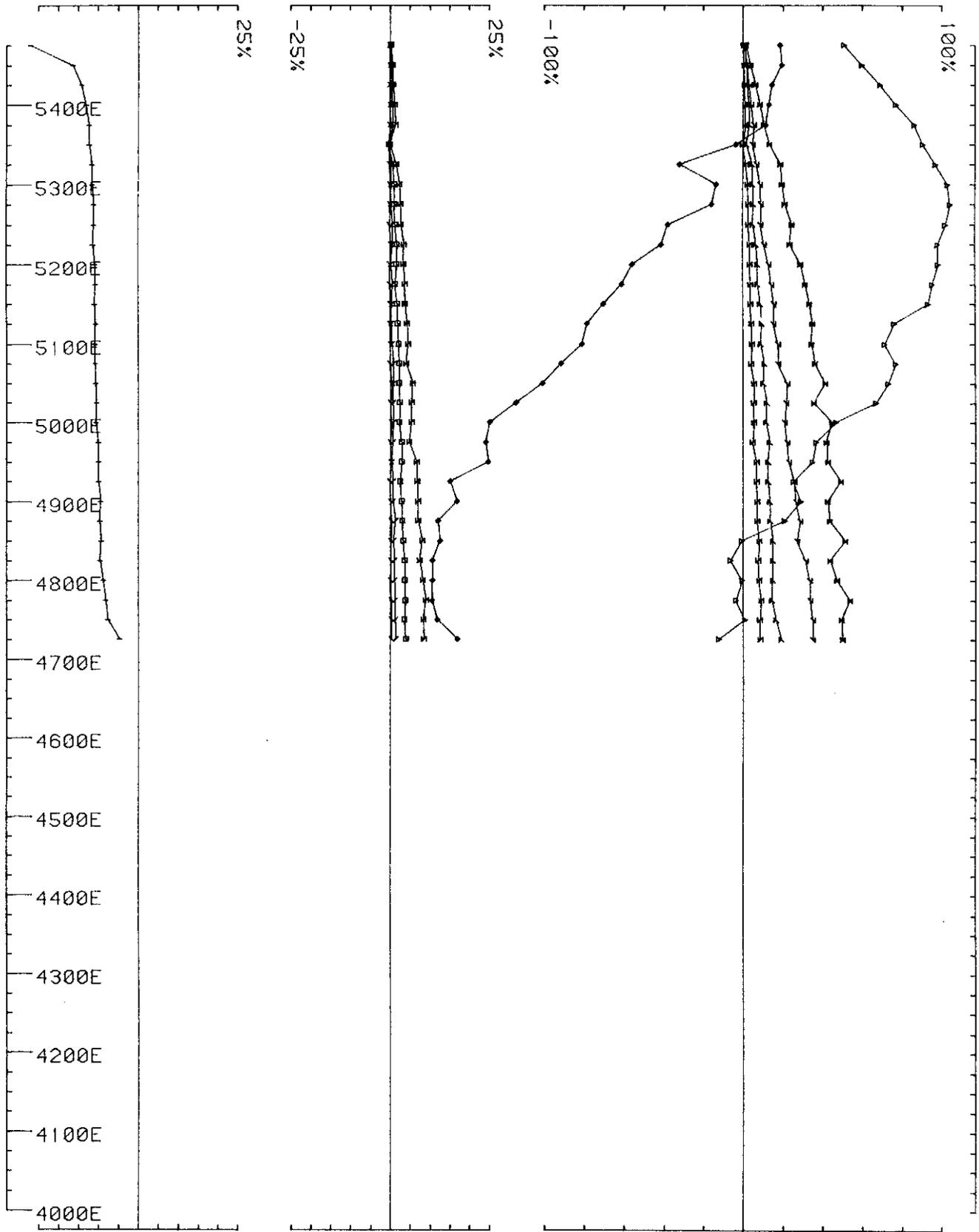
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8702
 AREA :- Redhills
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 38N Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



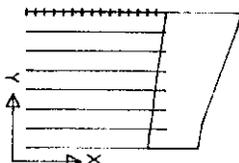
Redhills
 LOOP 0001
 LINE 38N
 Hz

083

883084



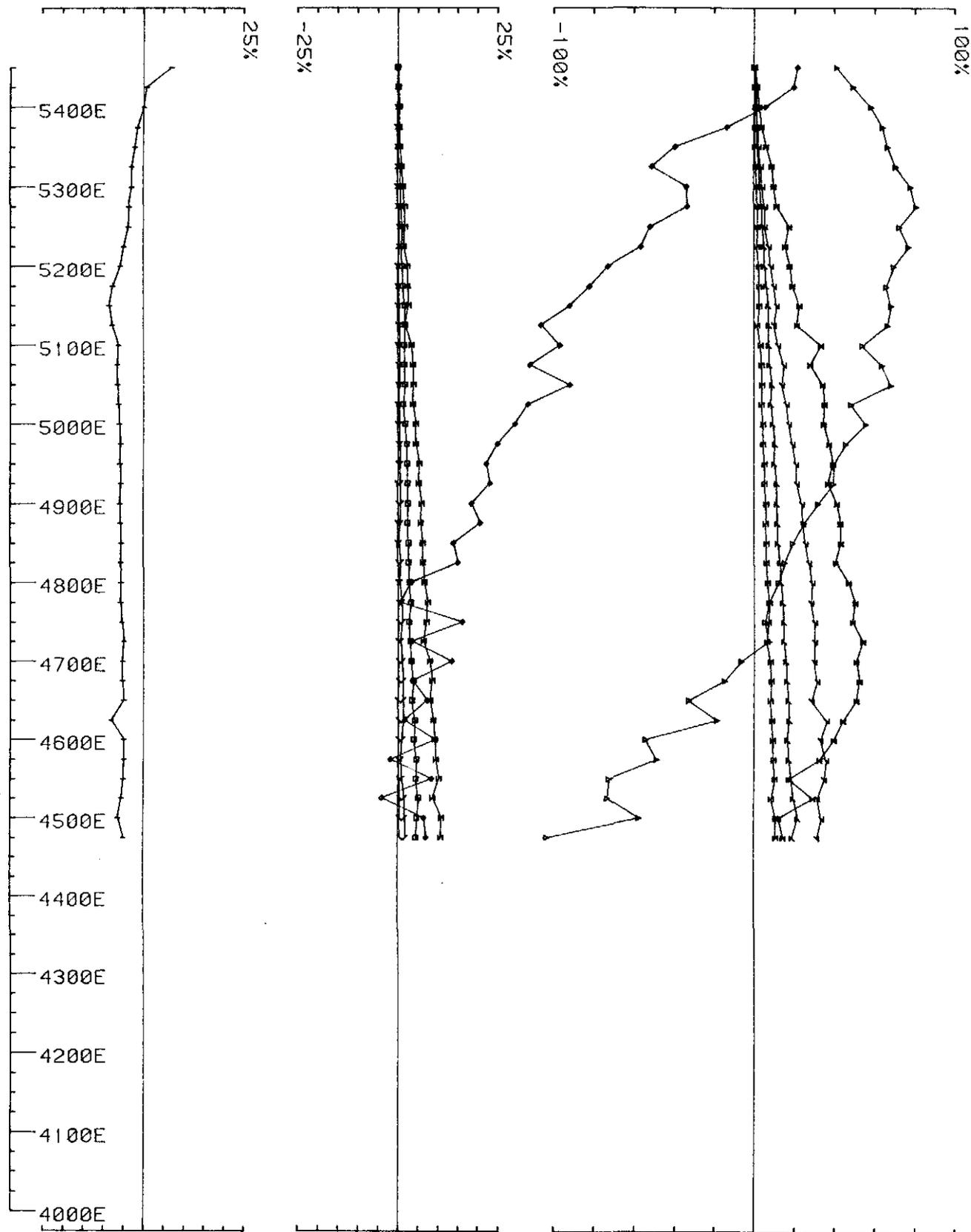
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 65S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



Lake Dora
 LOOP 0001
 LINE 65S
 Hz

084

883085



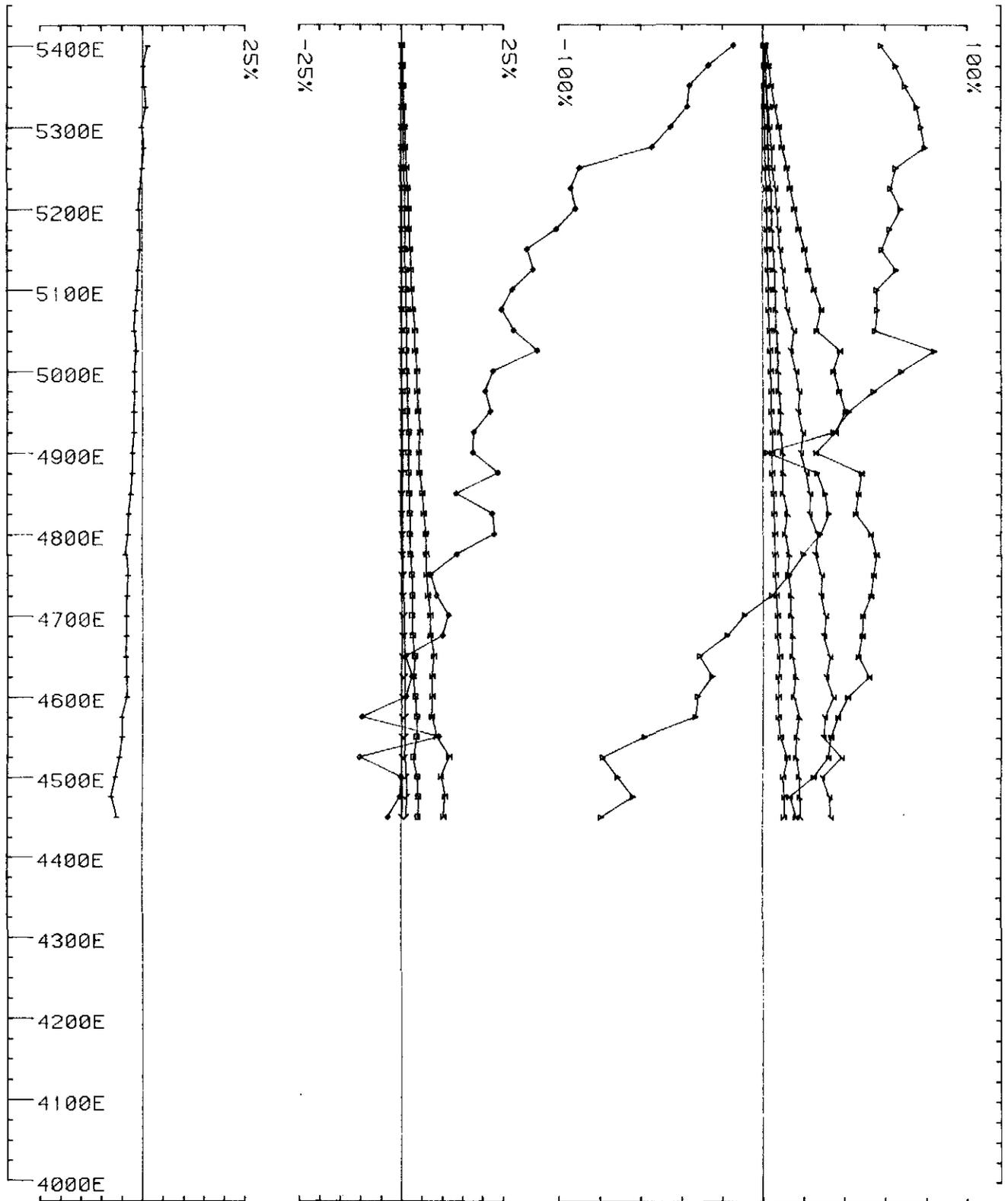
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 72S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



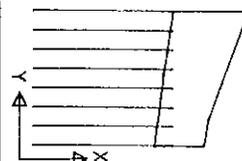
Lake Dora
 LOOP 0001
 LINE 72S
 Hz

085

883086



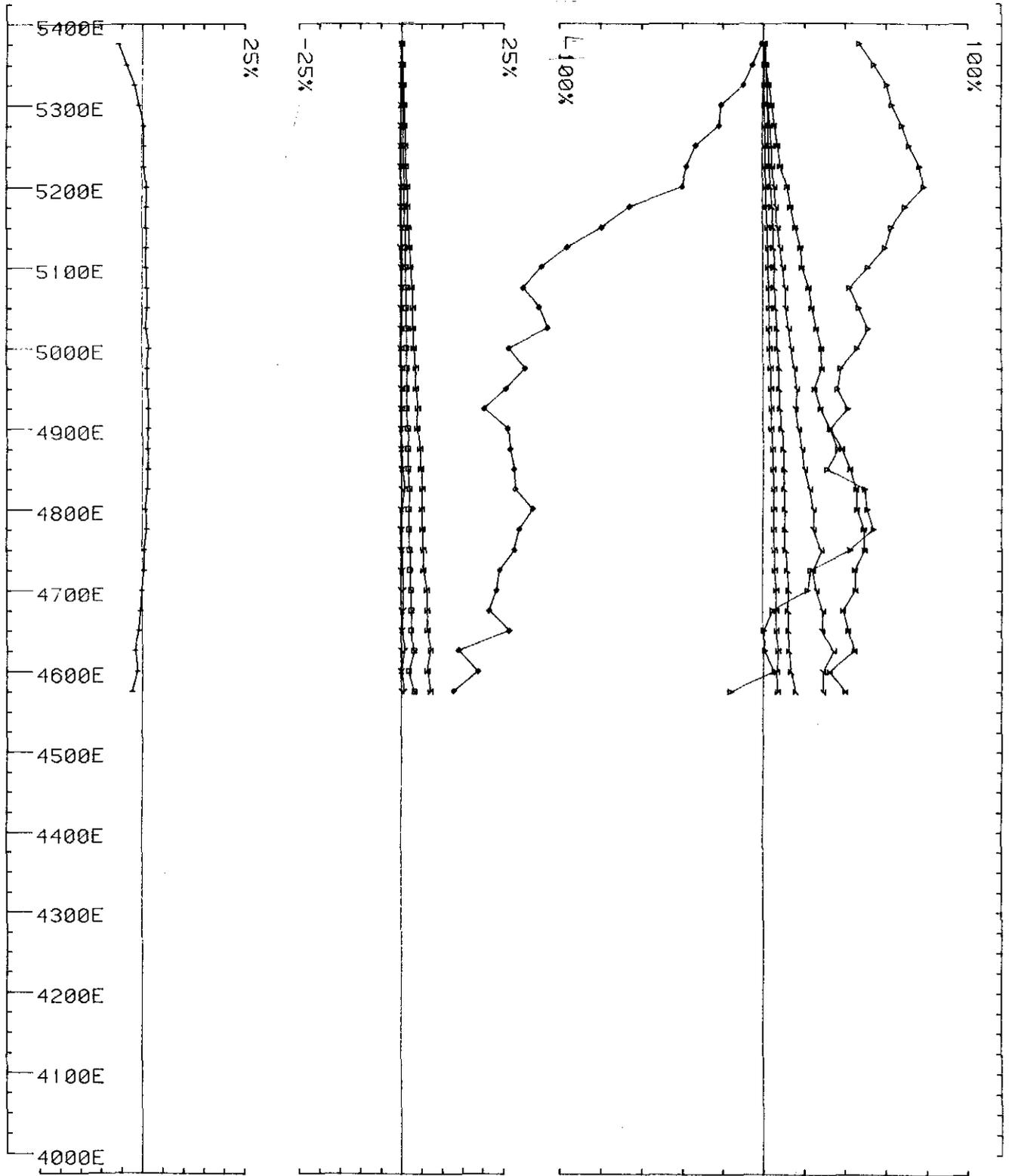
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 80S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS ch 1 NORMALIZATION



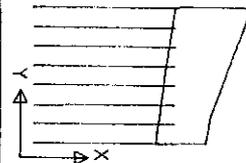
Lake Dora
 LOOP 0001
 LINE 80S
 Hz

086

883087



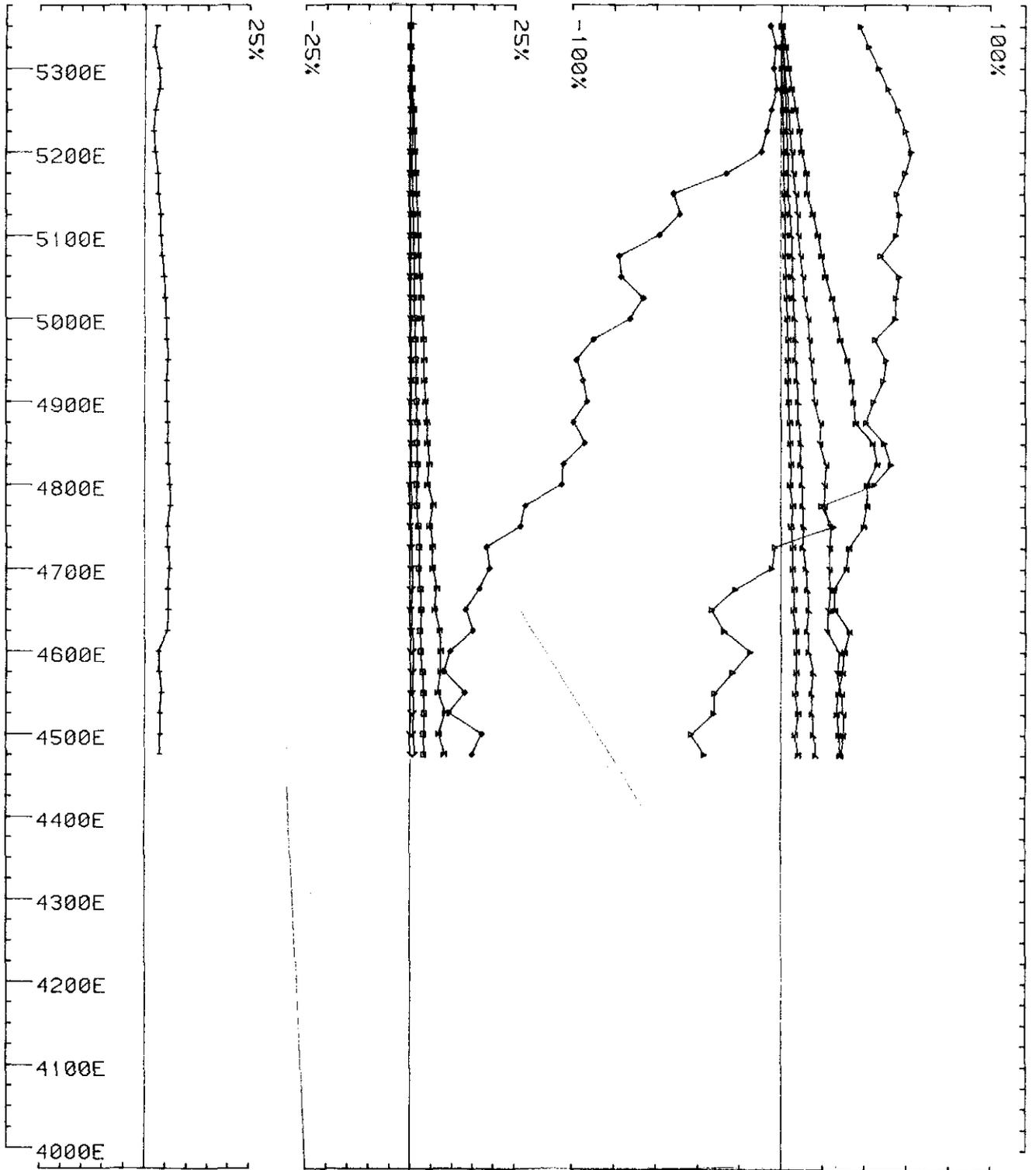
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 88S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



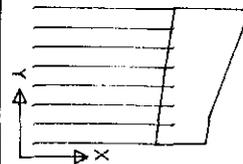
Lake Dora
 LOOP 0001
 LINE 88S
 Hz

087

883088



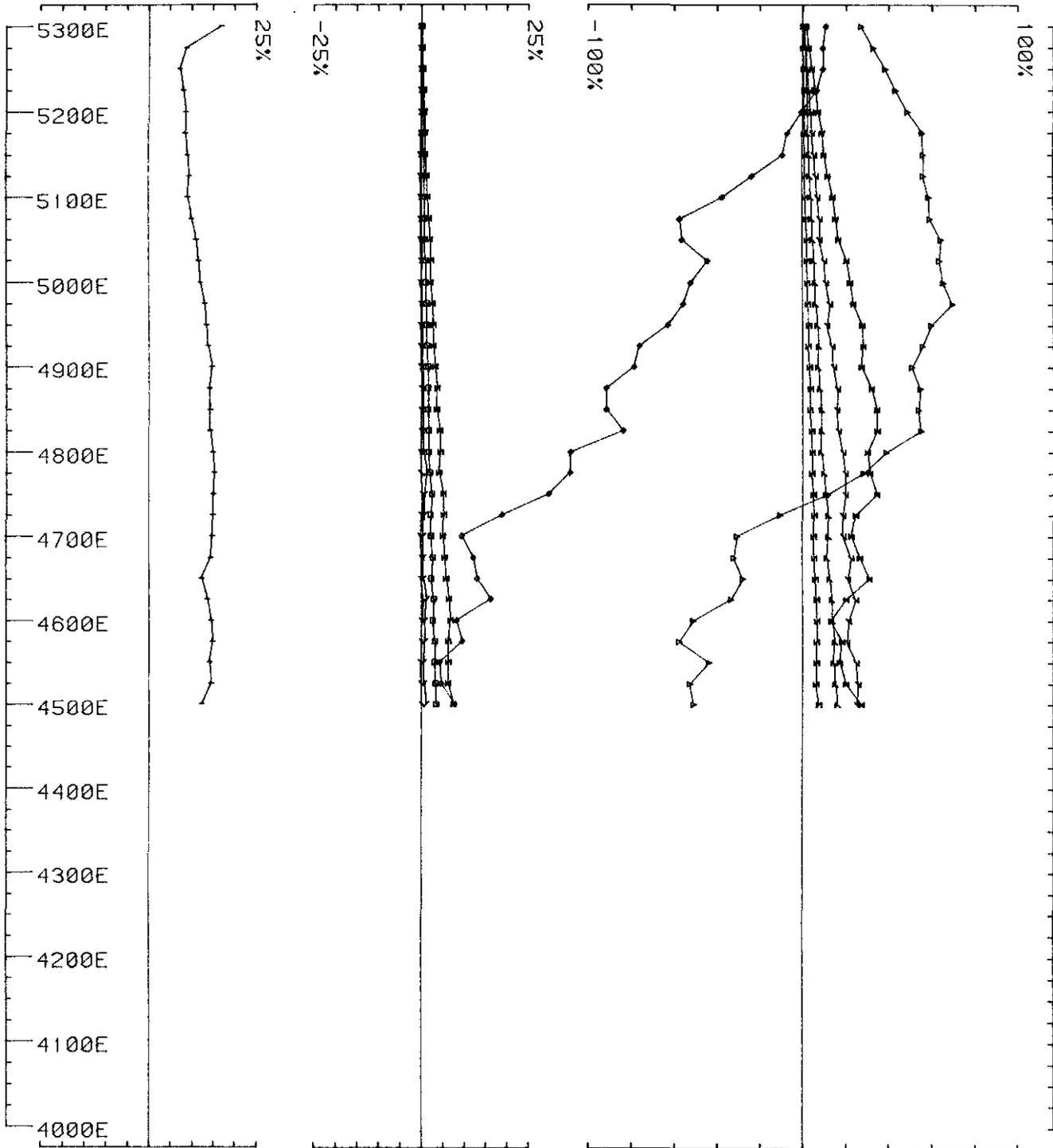
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 96S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



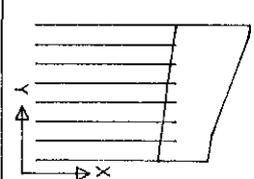
Lake Dora
 LOOP 0001
 LINE 96S
 Hz

088

883089



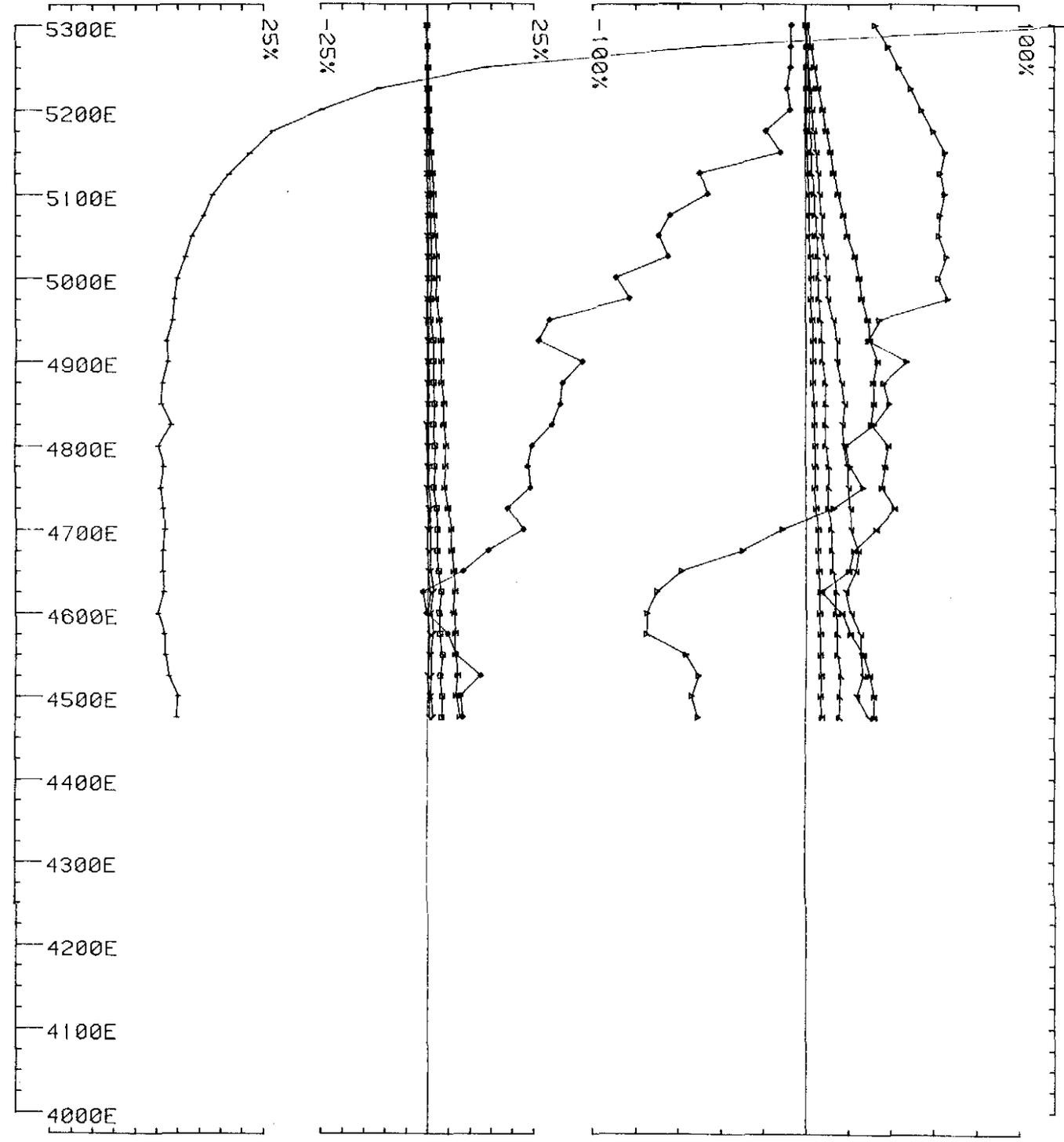
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 104S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



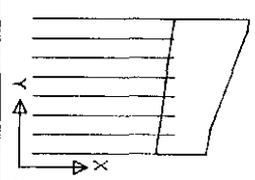
Lake Dora
 LOOP 0001
 LINE 104S
 Hz

089

883090



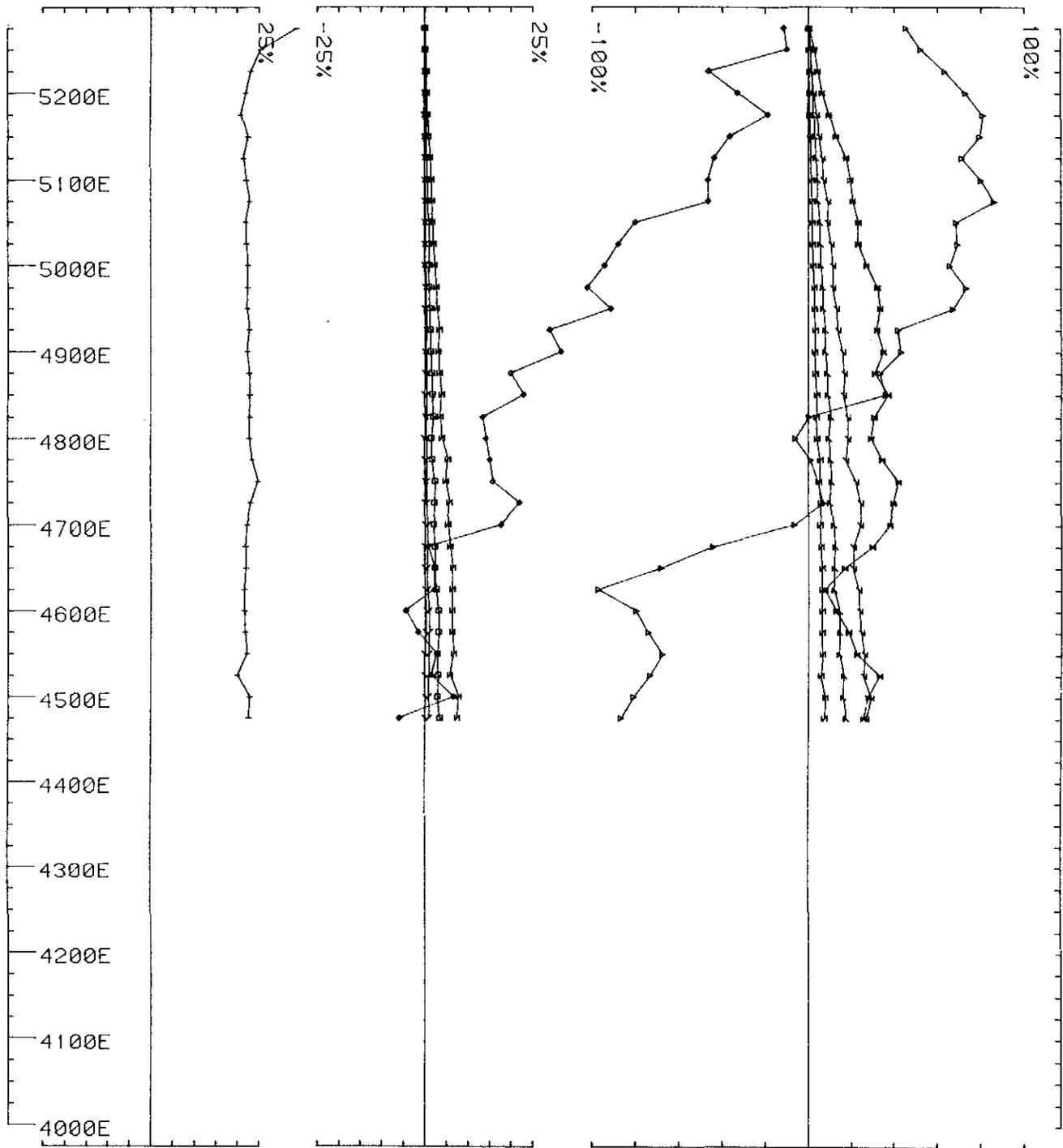
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 110S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



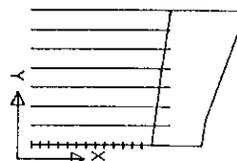
Lake Dora
 LOOP 0001
 LINE 110S
 Hz

090

883091



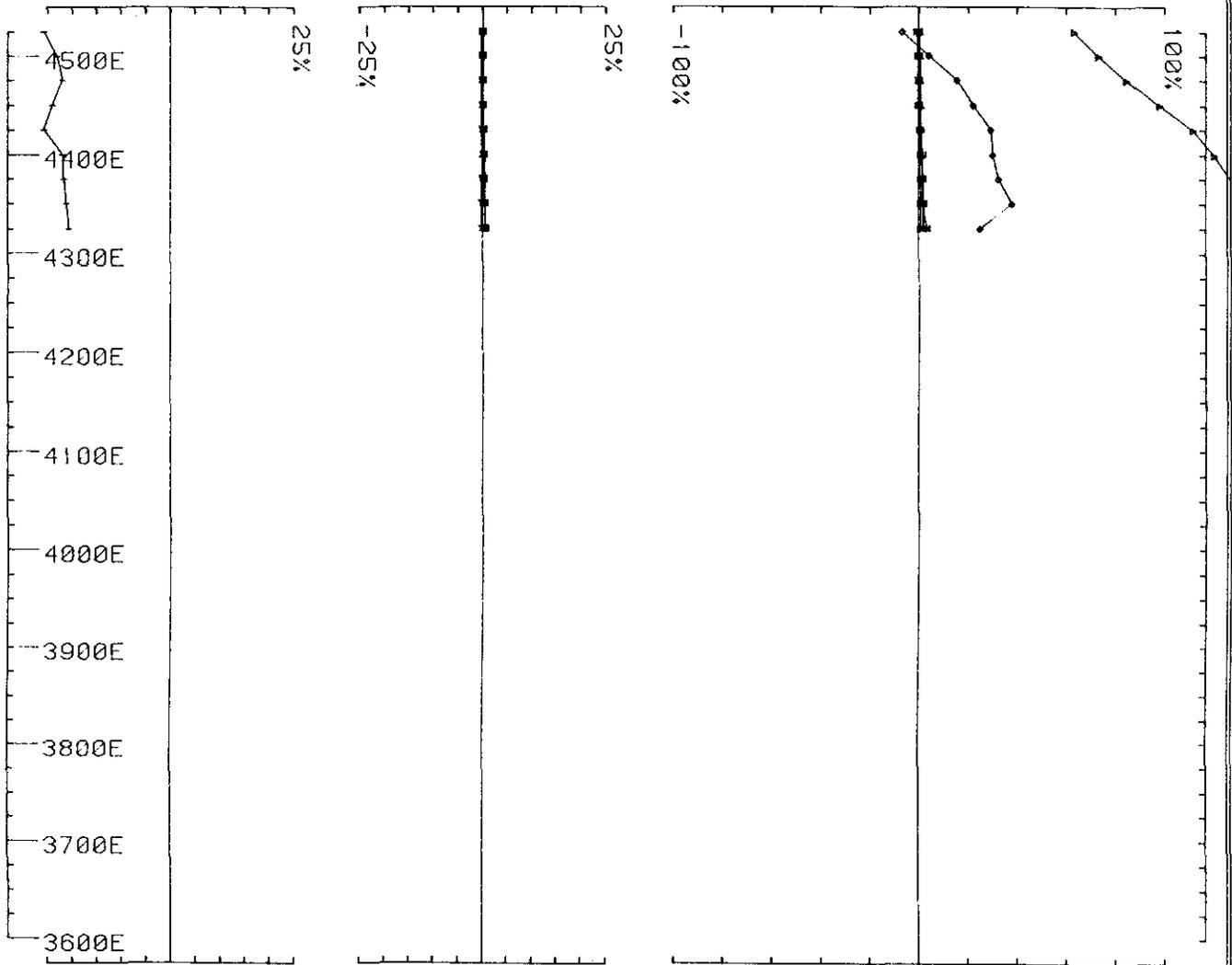
LAMONTAGNE GEOPHYSICS UTEM SURVEY Job 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 114S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



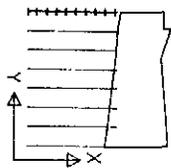
Lake Dora
 LOOP 0001
 LINE 114S
 Hz

091

883092



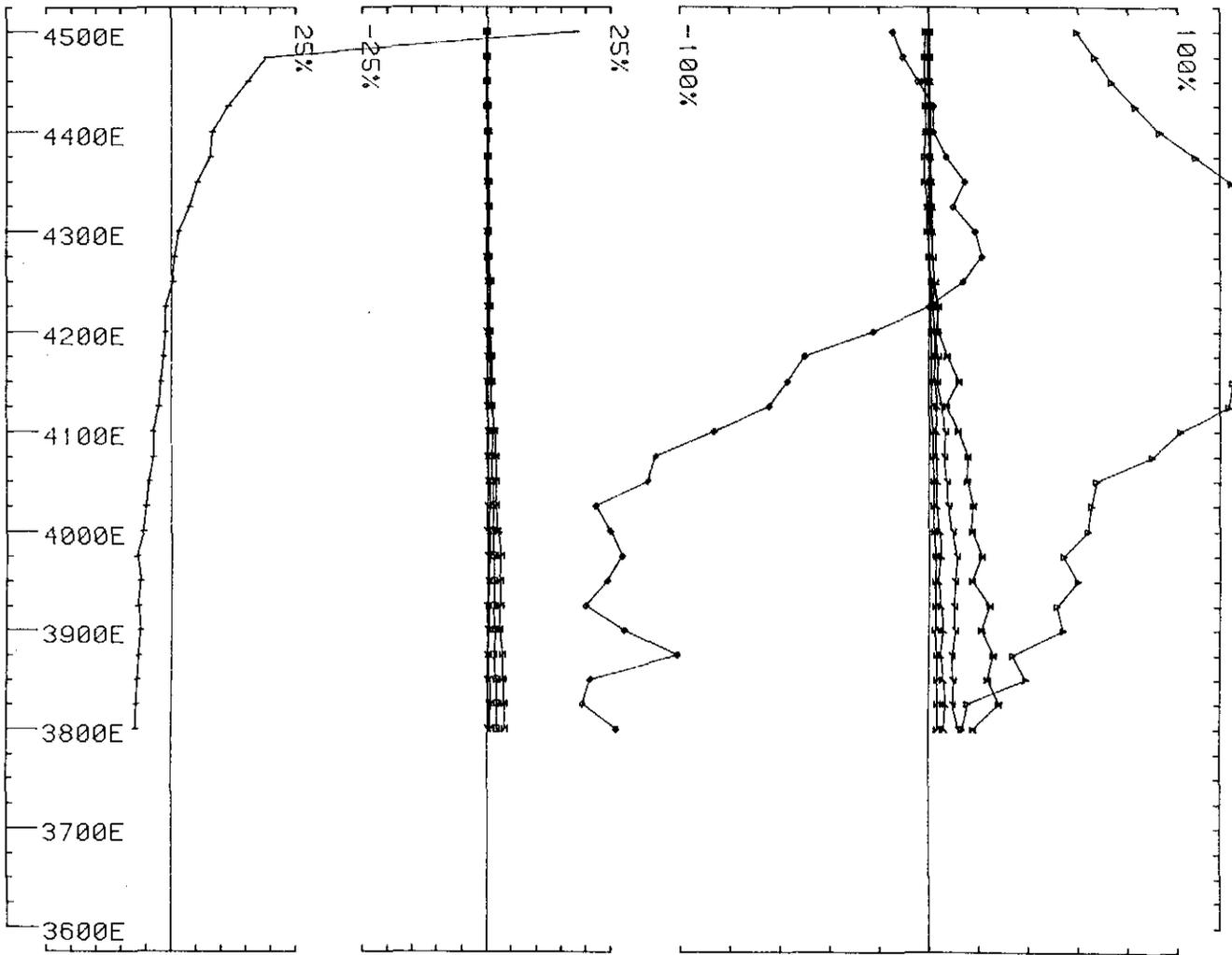
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. CREW :- RH BM
 Line 104S Hz COMPONENT BASE FREQ :- 26.813HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



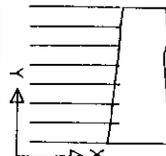
Lake Dora
 LOOP 0002
 LINE 104S
 Hz

092

883093



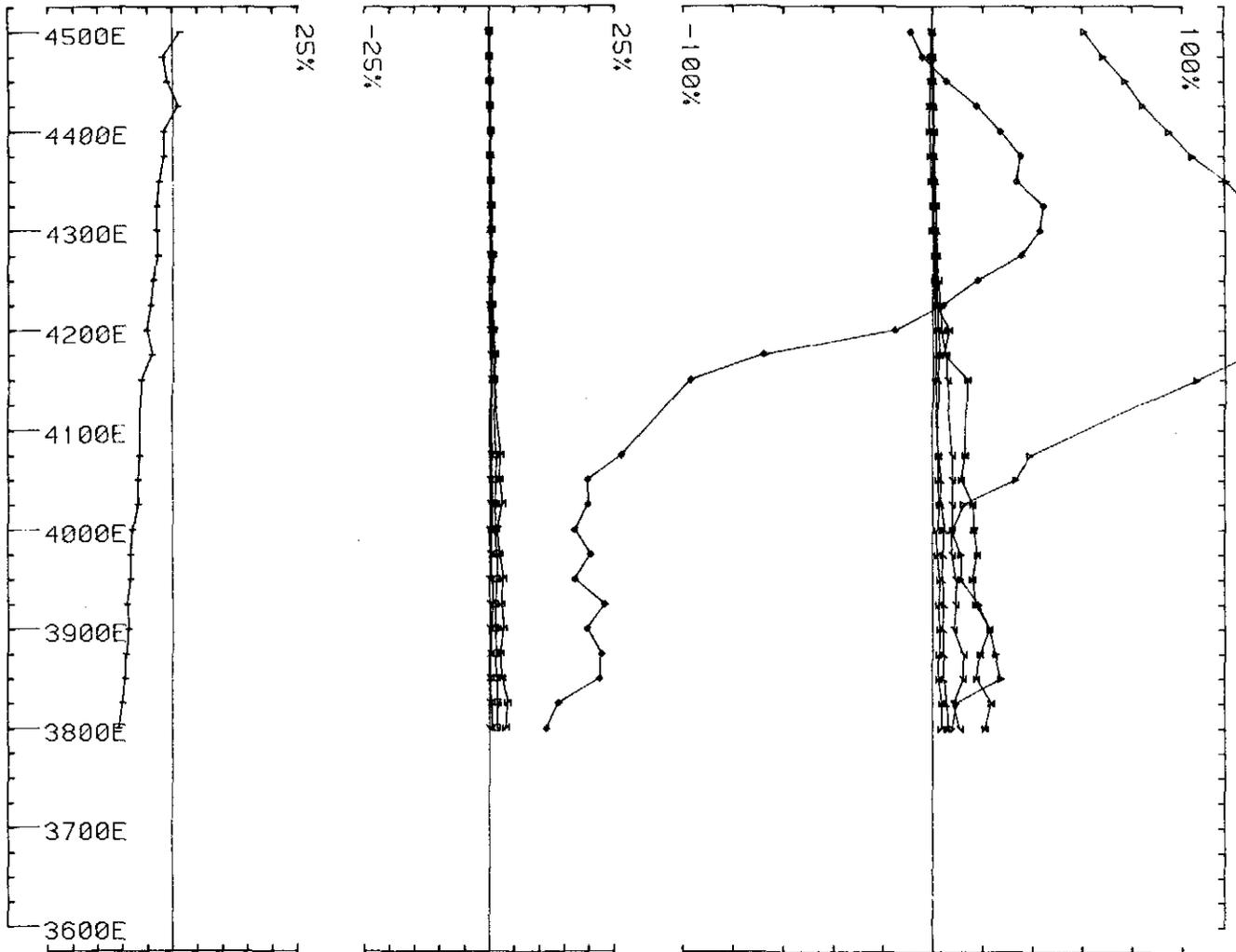
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. CREW :- RH BM
 Line 110S Hz COMPONENT BASE FREQ :- 26.813HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



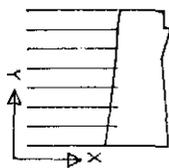
Lake Dora
 LOOP 0002
 LINE 110S
 HZ

093

883094



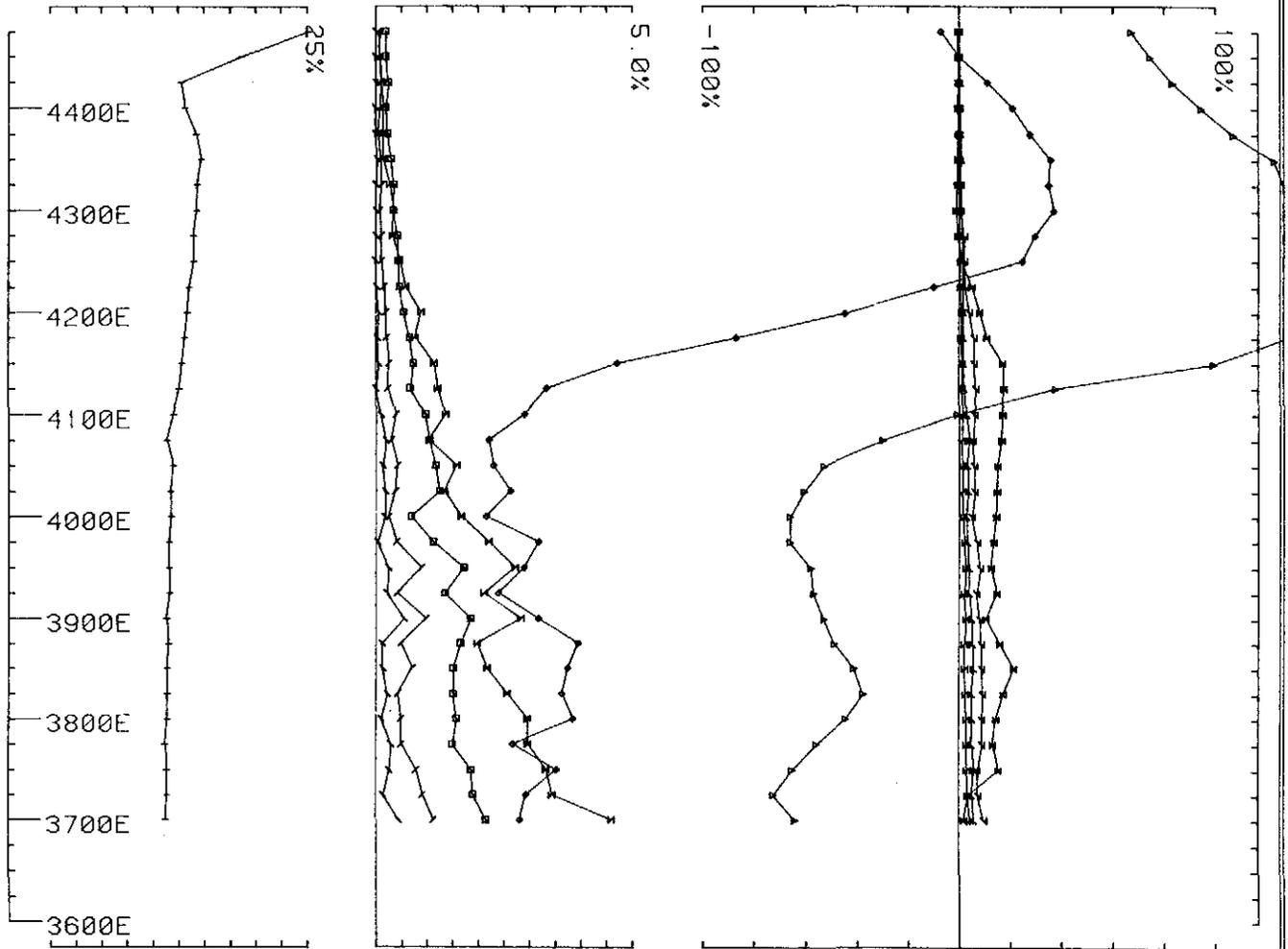
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. CREW :- RH BM
 Line 114S Hz COMPONENT BASE FREQ :- 26.813HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



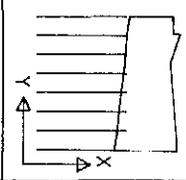
Lake Dora
 LOOP 0002
 LINE 114S
 Hz

094

883095



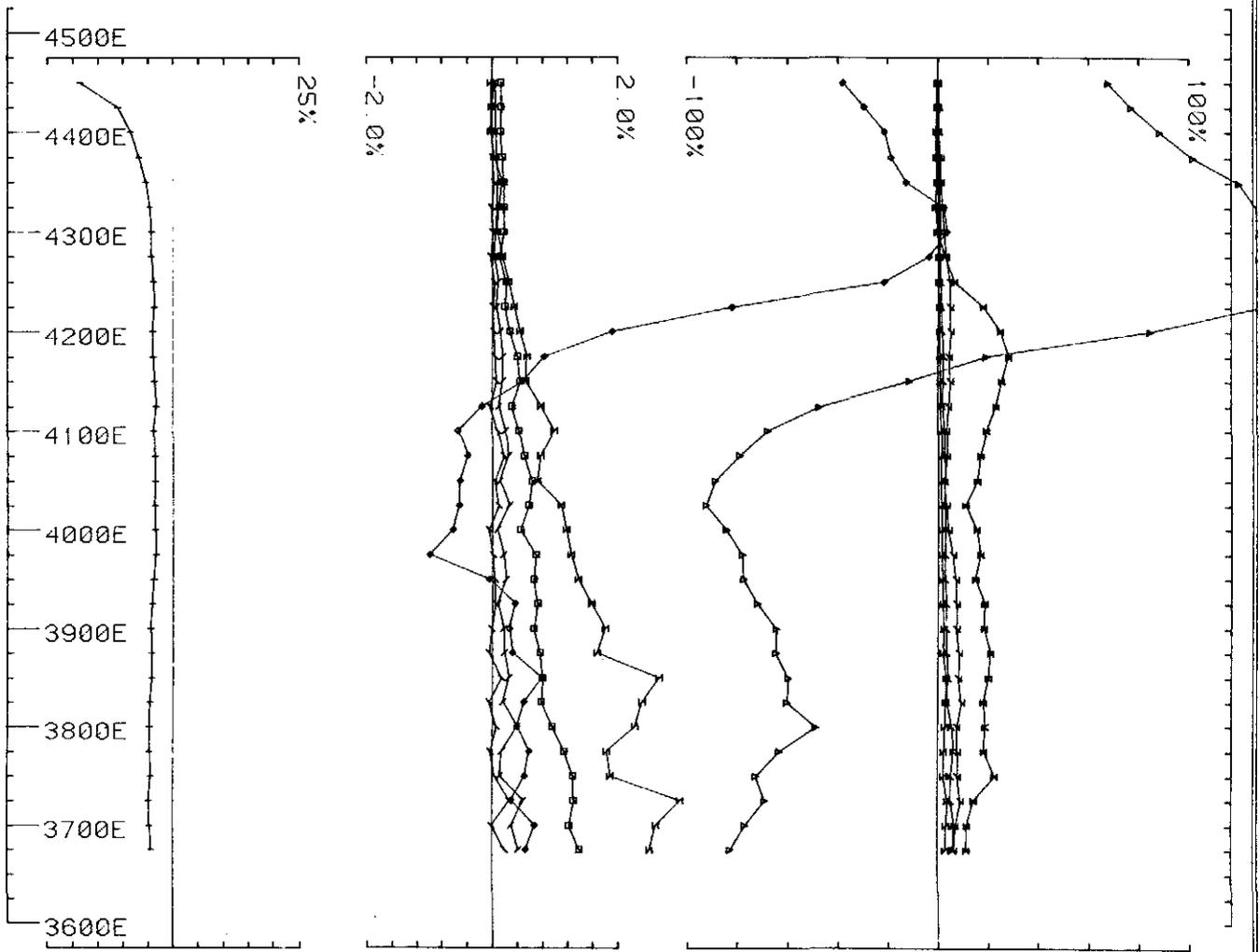
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. CREW :- RH BM
 Line 120S Hz COMPONENT BASE FREQ :- 26.813HERTZ
 SECONDARY FIELD CONTINUOUS CH 1 NORMALIZATION



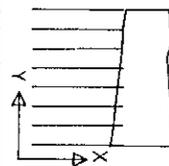
Lake Dora
 LOOP 0002
 LINE 120S
 Hz

095

883096



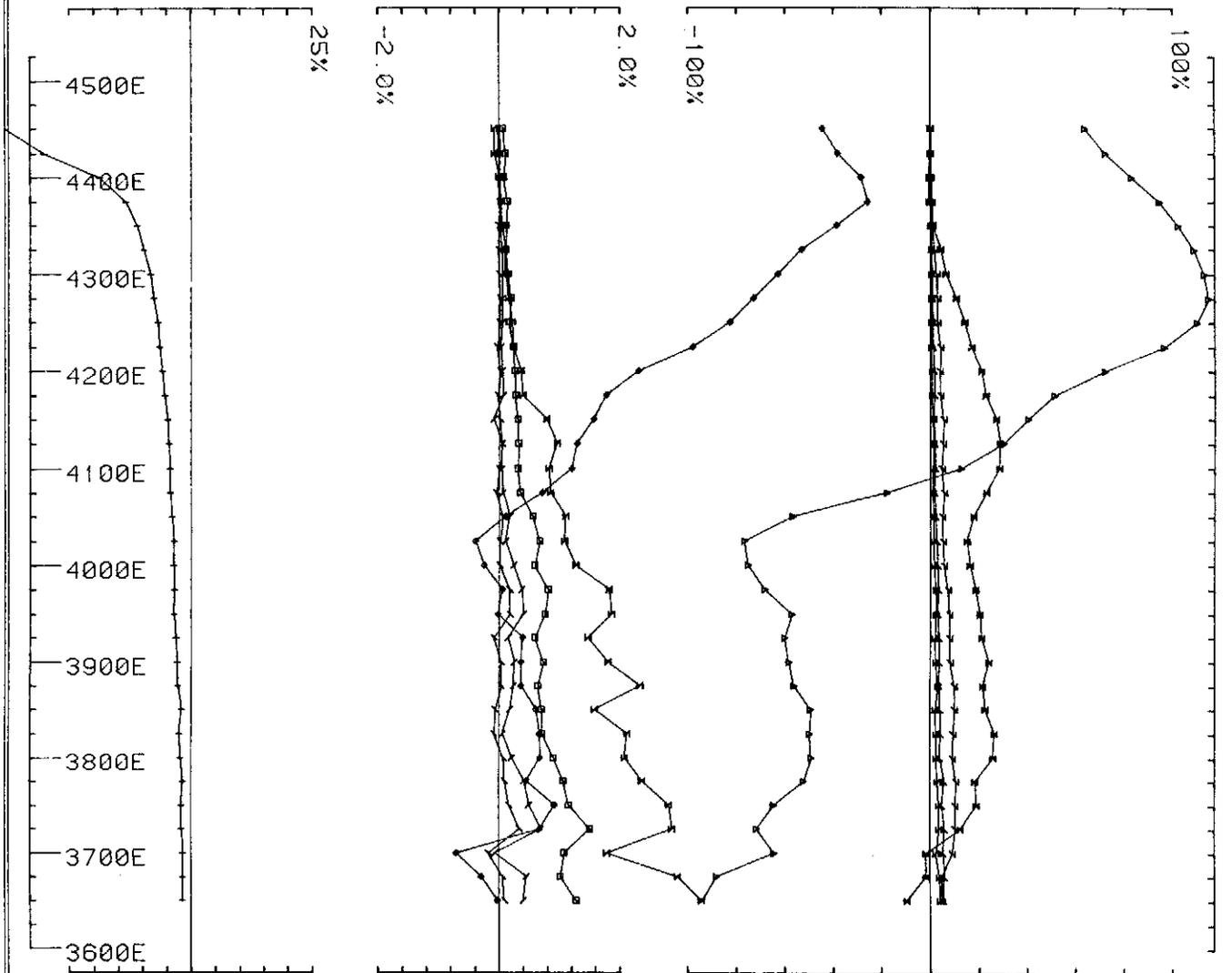
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. CREW :- RH BM
 Line 128S Hz COMPONENT BASE FREQ :- 26.813HERTZ
 SECONDARY FIELD CONTINUOUS CH 1 NORMALIZATION



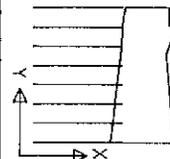
Lake Dora
 LOOP 0002
 LINE 128S
 Hz

096

883097



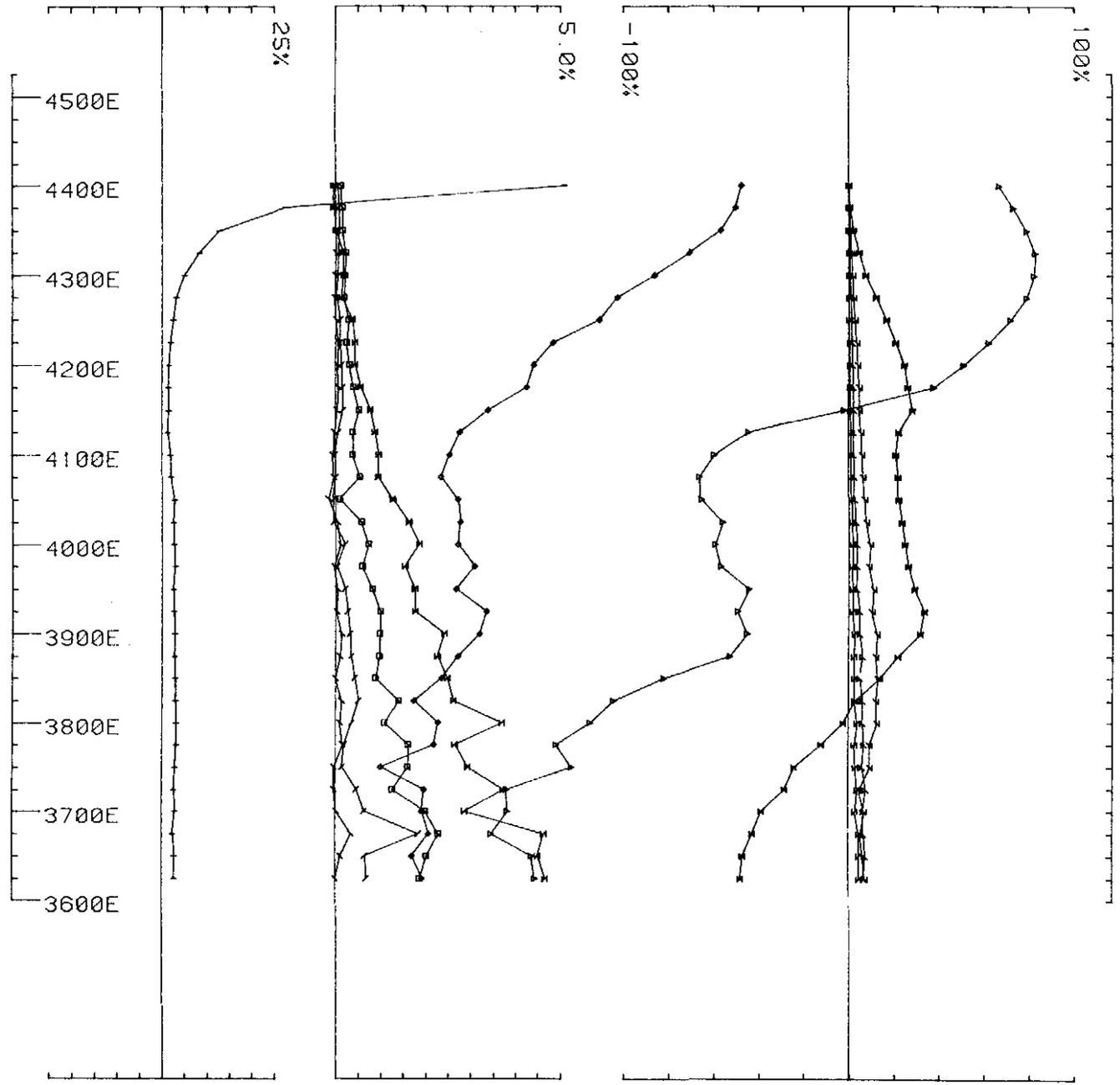
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. CREW :- RH BM
 Line 136S Hz COMPONENT BASE FREQ :- 26.813HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



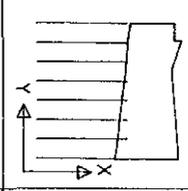
Lake Dora
 LOOP 0002
 LINE 136S
 Hz

097

883098



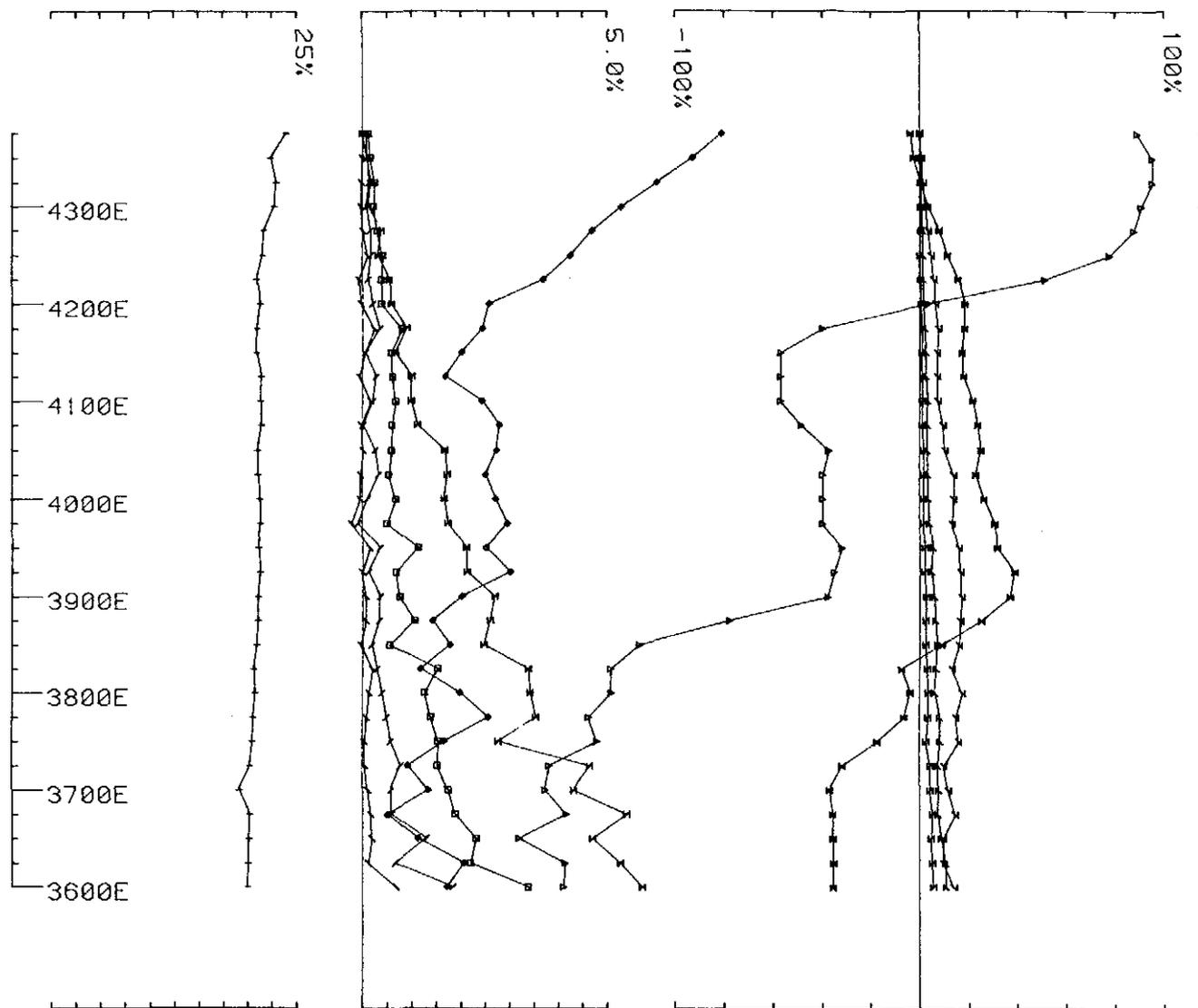
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. CREW :- RH BM
 Line 144s Hz COMPONENT BASE FREQ :- 26.813HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



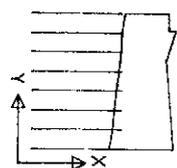
Lake Dora
 LOOP 0002
 LINE 144s
 Hz

098

883099



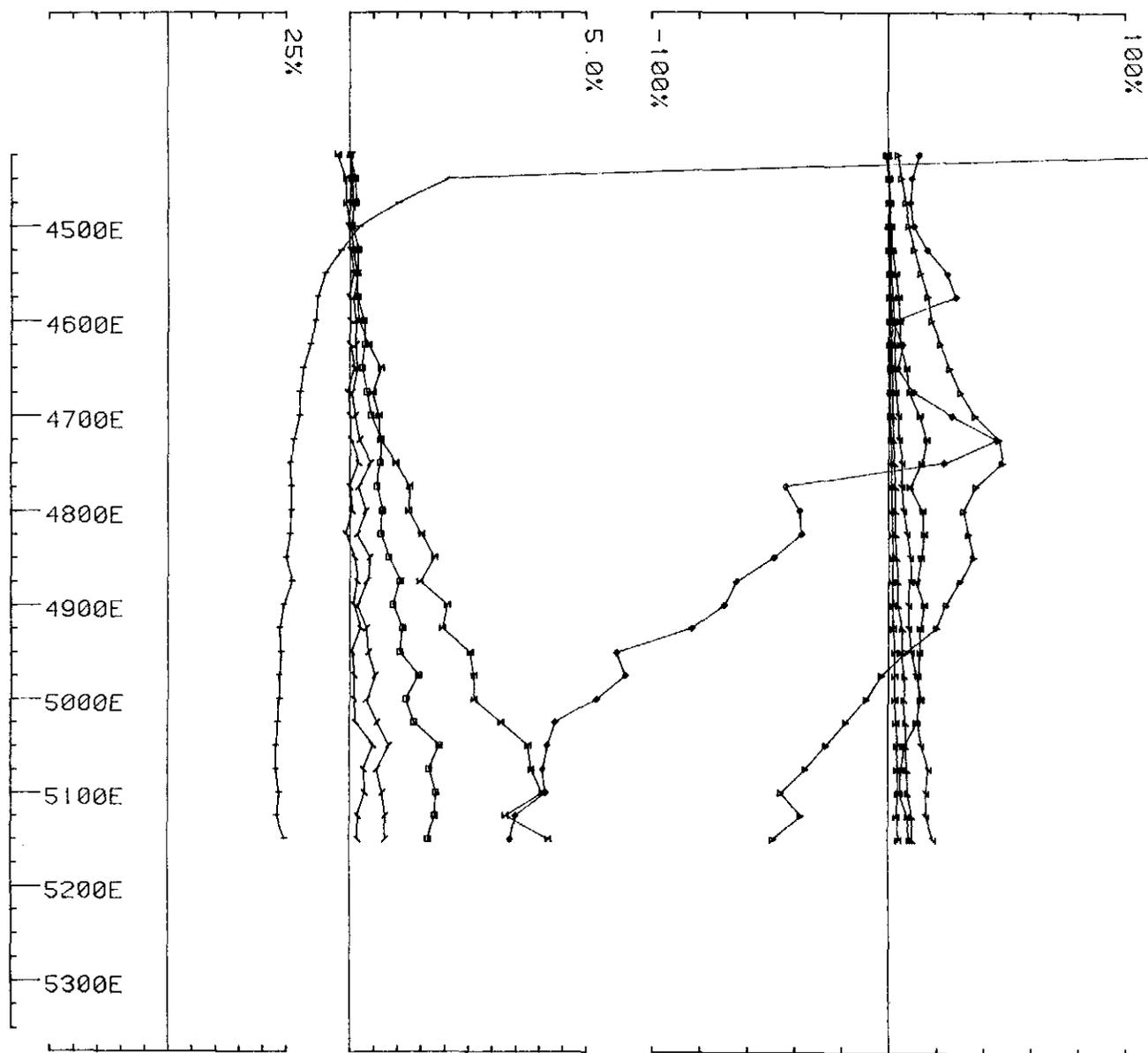
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. CREW :- RH BM
 Line 152S Hz COMPONENT BASE FREQ :- 26.813HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



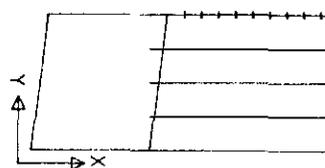
Lake Dora
 LOOP 0002
 LINE 152S
 Hz

099

883100



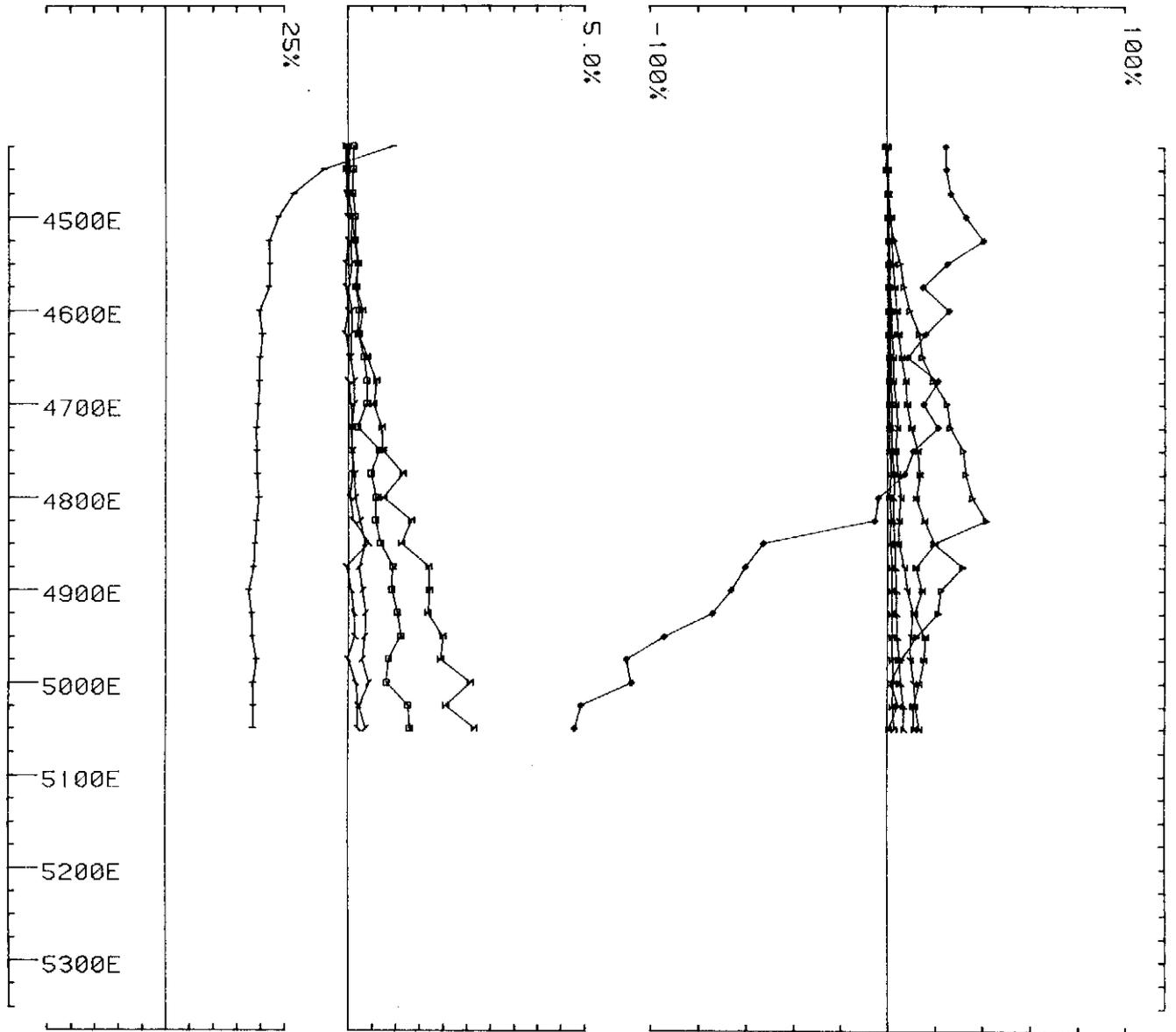
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 120S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



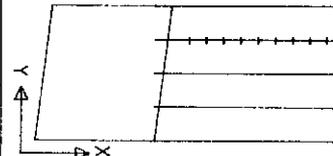
Lake Dora
 LOOP 0003
 LINE 120S
 Hz

100

883101



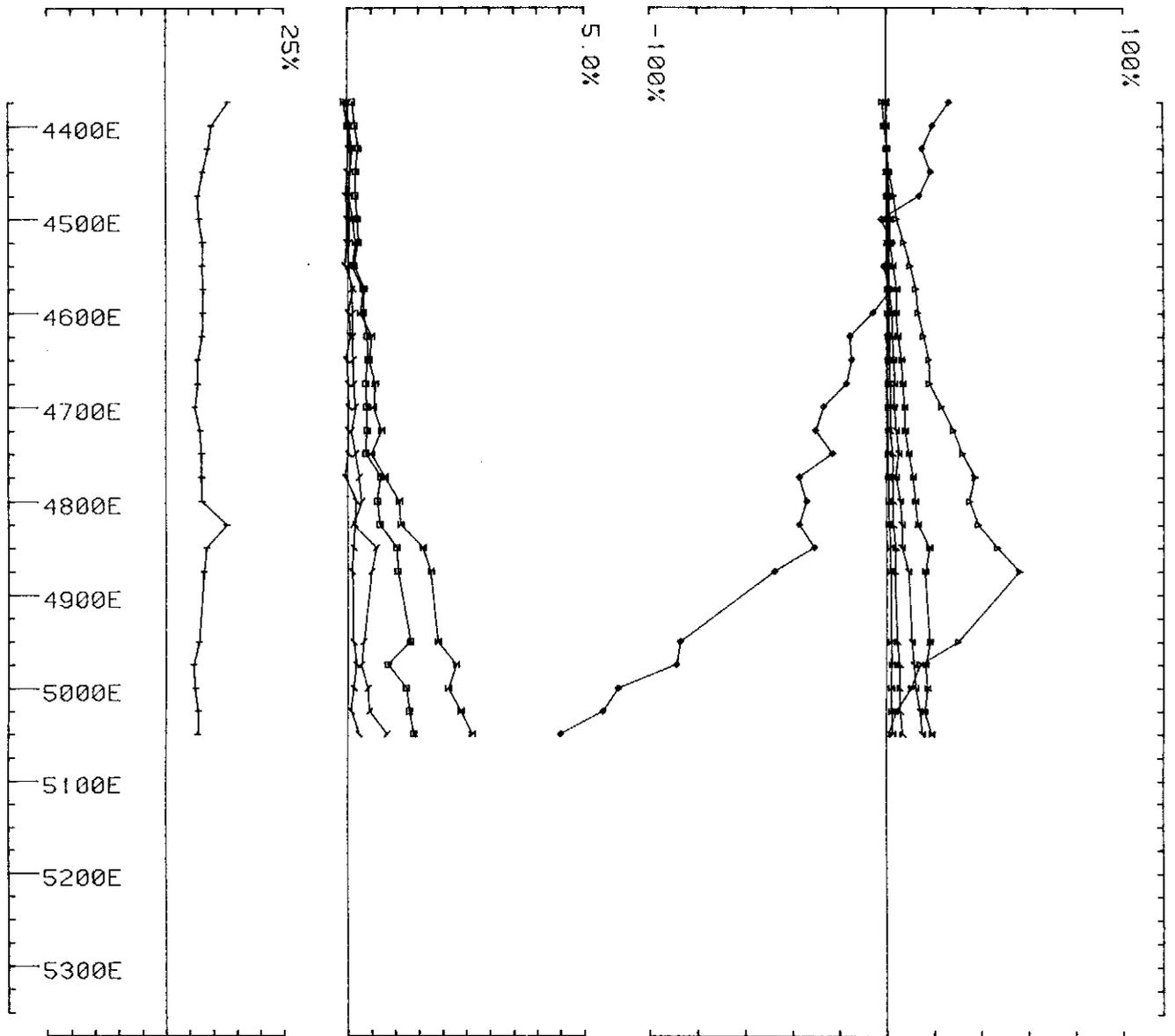
LAMONTAGNE GEOPHYSICS UTEM SURVEY Job 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 128S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



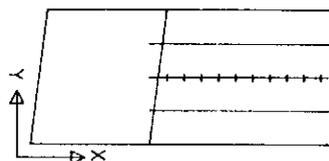
Lake Dora
 LOOP 0003
 LINE 128S
 Hz

101

883102



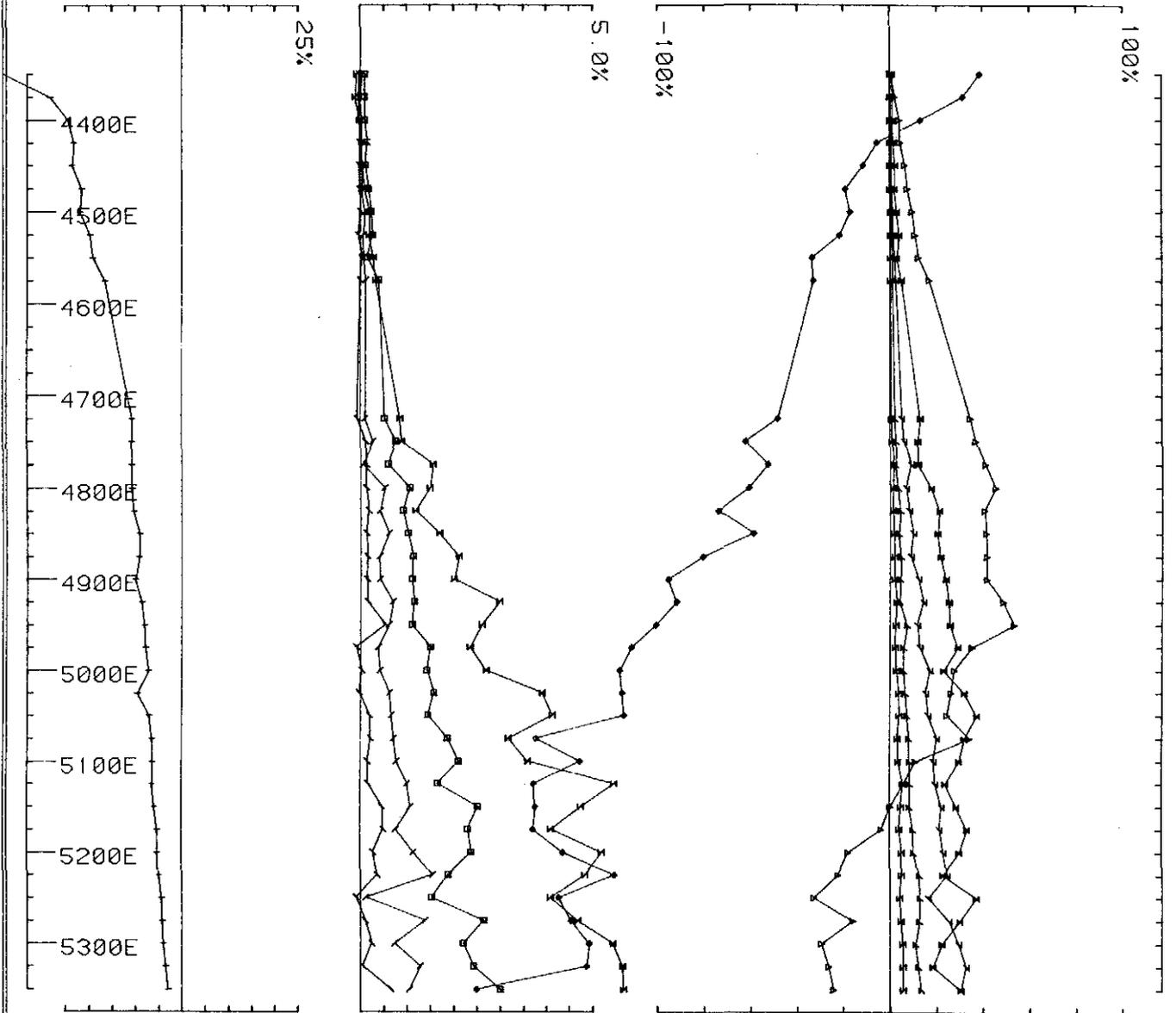
LAMONTAGNE GEOPHYSICS UTEM SURVEY Job 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 136S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



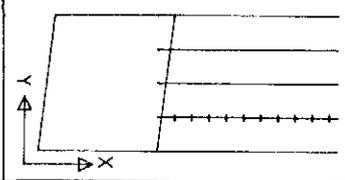
Lake Dora
 LOOP 0003
 LINE 136S
 Hz

102

883103



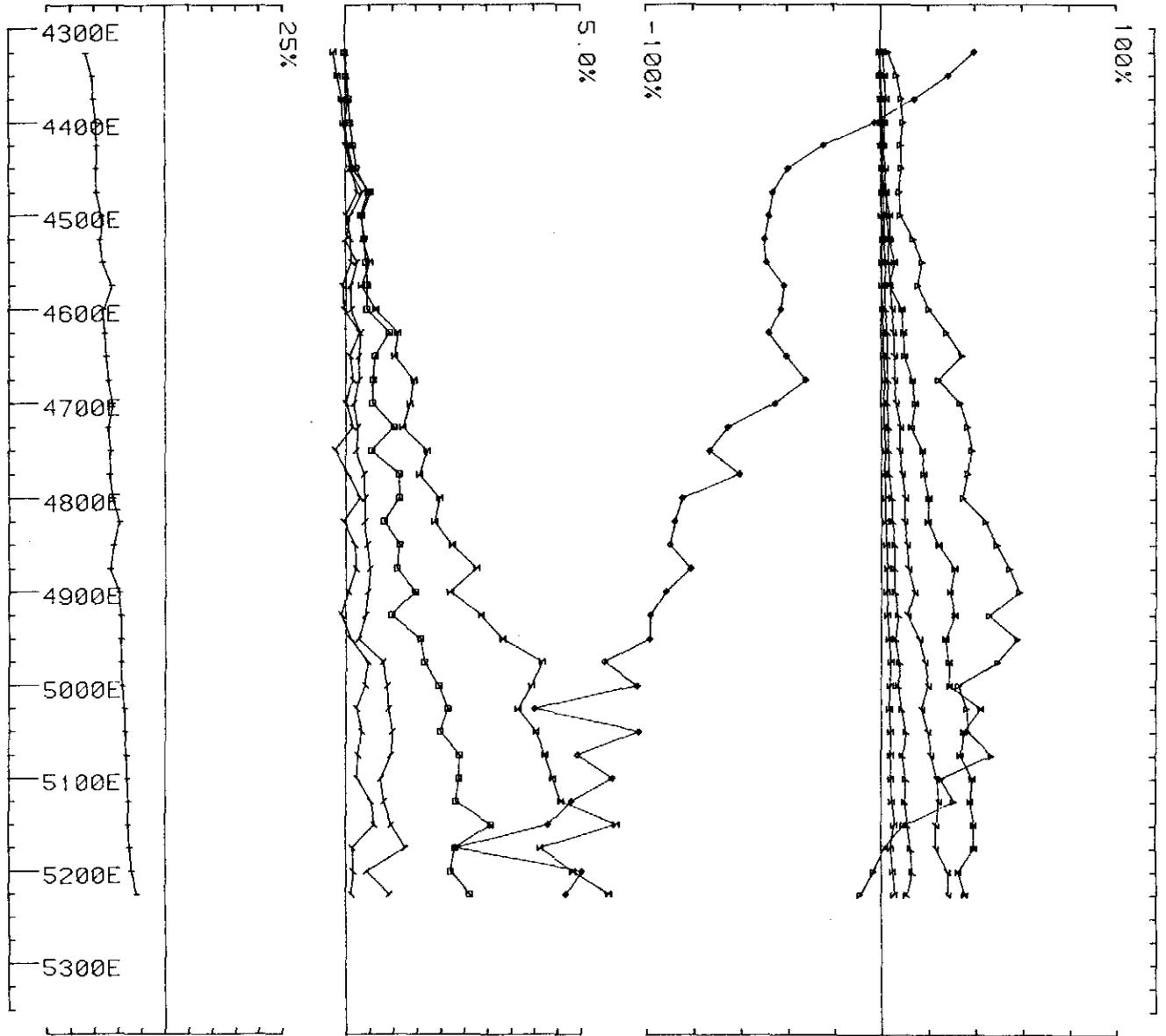
LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 144S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



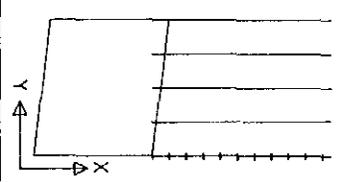
Lake Dora
 LOOP 0003
 LINE 144S
 Hz

103

883104

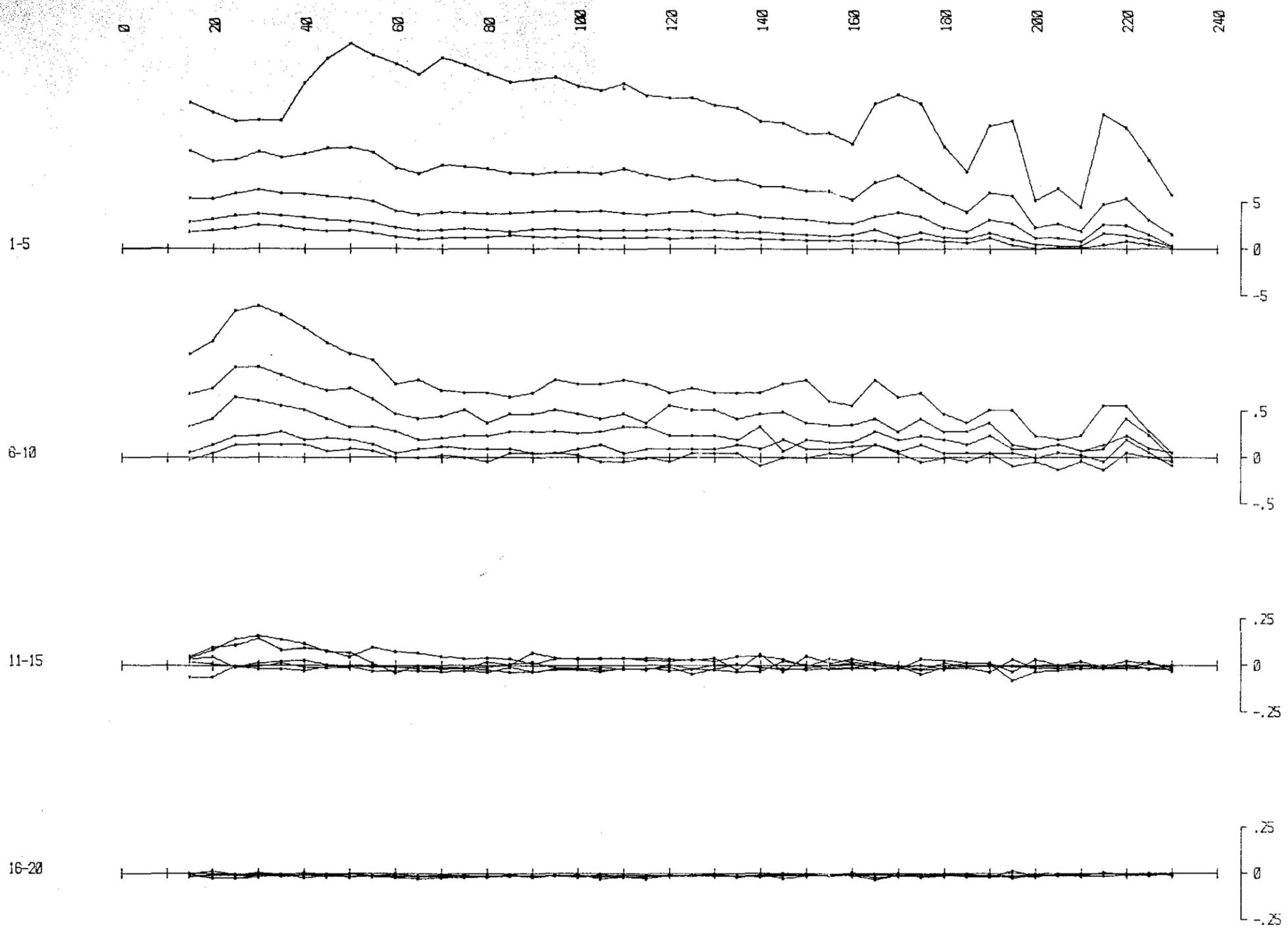


LAMONTAGNE GEOPHYSICS UTEM SURVEY JOB 8703
 AREA :- Lake Dora
 CLIENT :- C.R.A.E. Pty. Ltd. CREW :- BM RH
 Line 152S Hz COMPONENT BASE FREQ :- 26.230HERTZ
 SECONDARY FIELD CONTINUOUS Ch 1 NORMALIZATION



Lake Dora
 LOOP 0003
 LINE 152S
 Hz

AXIAL COMPONENT \dot{B} (A)

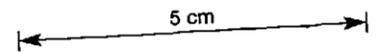


883105

EM-37

BOREHOLE SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD
TIME DERIVATIVE OF FLUX DENSITY (B)



nanovolts per amp metre squared

TX LOOP SIDES : 00075N 00135E
 : 00275N 00335E
TX LOOP SIZE : 200 m X 200 m
TX TURN OFF TIME : 150 microseconds.
FIRST GATE TIME : 88.5 microseconds.
CURRENT : 16.1 amps
FREQUENCY : 25 Hz.
INTEGRATION TIME : 256 cycles
SYNC MODE : CRYSTAL
HORIZONTAL SCALE : 1:1000
SURVEYED BY : SDCH
DATE : 01/11/1986

| | | |
|--|---|----------------------|
| | SURVEYED AND COMPILED BY GEOTREX PTY. LTD. | PROJECT NO. 4-914 |
| | CLIENT : CRA Exploration | |

| | |
|---------------------------|------------------|
| PROJECT : Red Hills | TASH 3523 |
| AREA : Lake Margaret Tas. | |
| BOREHOLE : RH5 | |
| TX LOOP : NE | |

883106

AXIAL COMPONENT \dot{B} (Z)

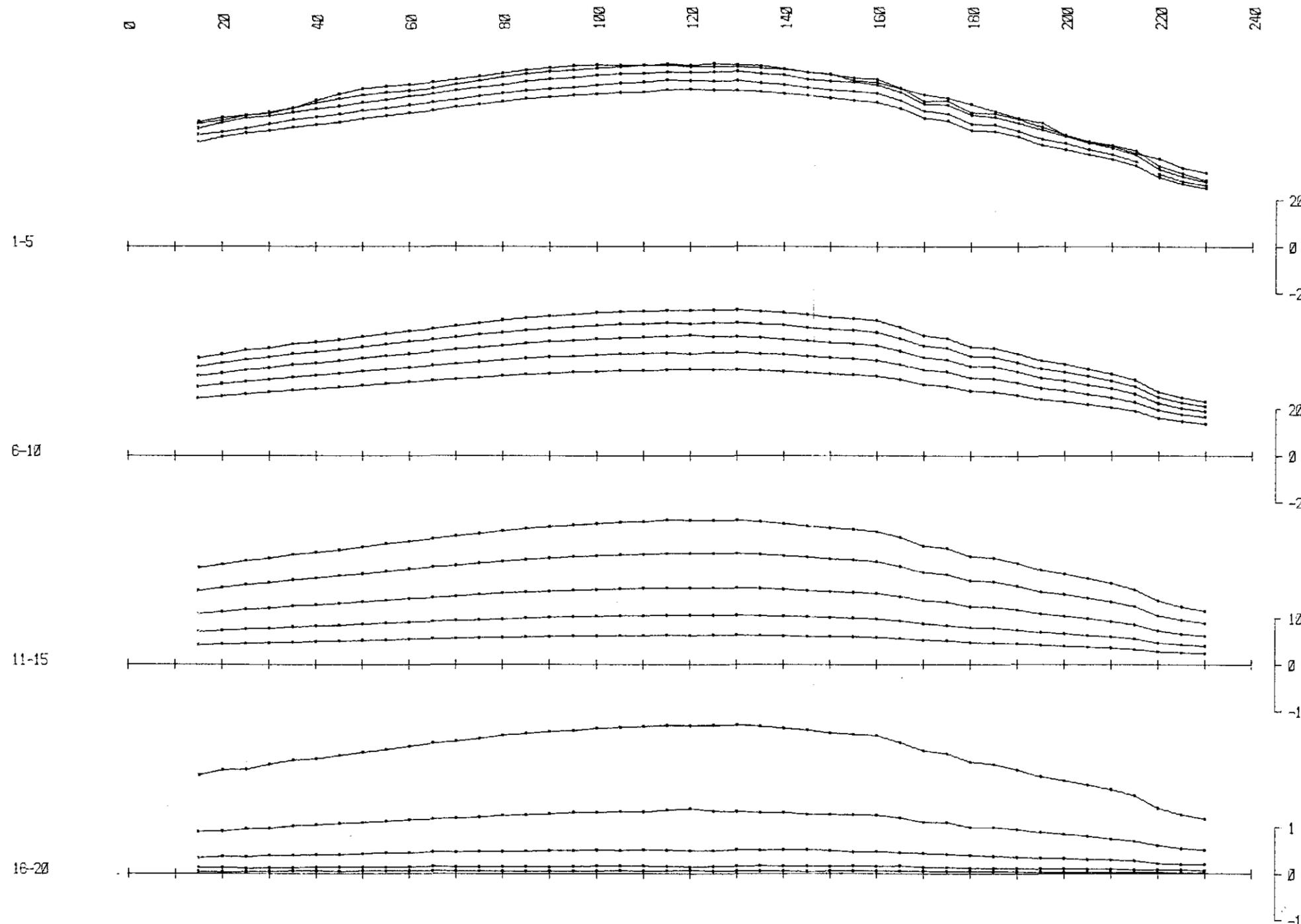
EM-37

BOREHOLE SURVEY

ELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD
TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared



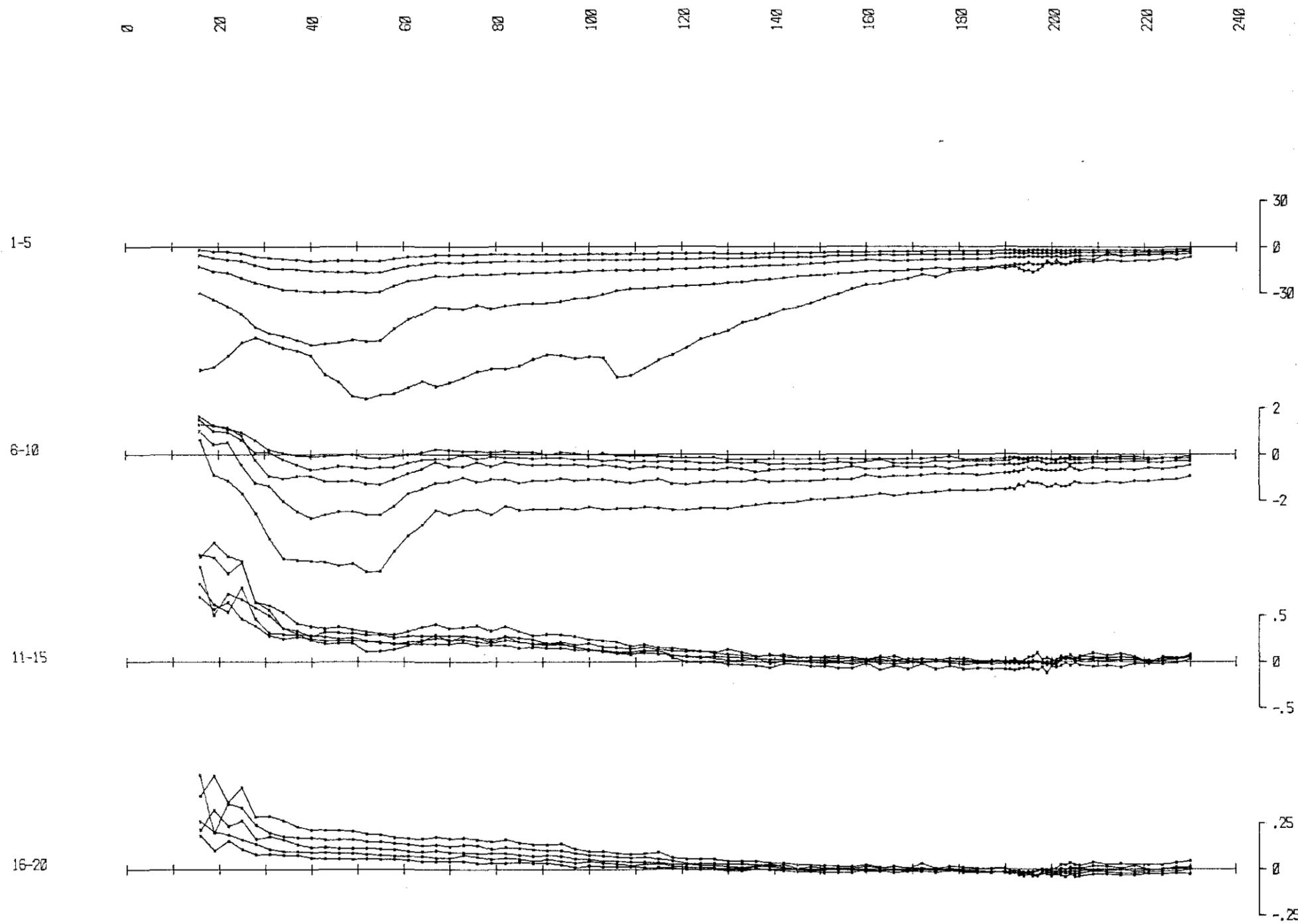
TX LOOP SIDES : 00100N 00250E
 : 00100S 00450E
TX LOOP SIZE : 200 m X 200 m
TX TURN OFF TIME : 140 microseconds.
FIRST GATE TIME : 88.5 microseconds.
CURRENT : 17.5 amps
FREQUENCY : 25 Hz.
INTEGRATION TIME : 256 cycles
SYNC MODE : CRYSTAL
HORIZONTAL SCALE : 1:1000
SURVEYED BY : SOCH
DATE : 31/10/1986

| | | |
|--|---|----------------------|
| | SURVEYED AND COMPILED BY GEOTERREX PTY. LTD. | PROJECT NO. 4-914 |
| | CLIENT : CRA Exploration | |

| | |
|----------------------------|------------------|
| PROJECT : Red Hills | TASH 3524 |
| AREA : Lake Margaret Test. | |
| BOREHOLE : R-15 | |
| TX LOOP : E | |

883107

AXIAL COMPONENT \dot{B} (A)



EM-37

BOREHOLE SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD
TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

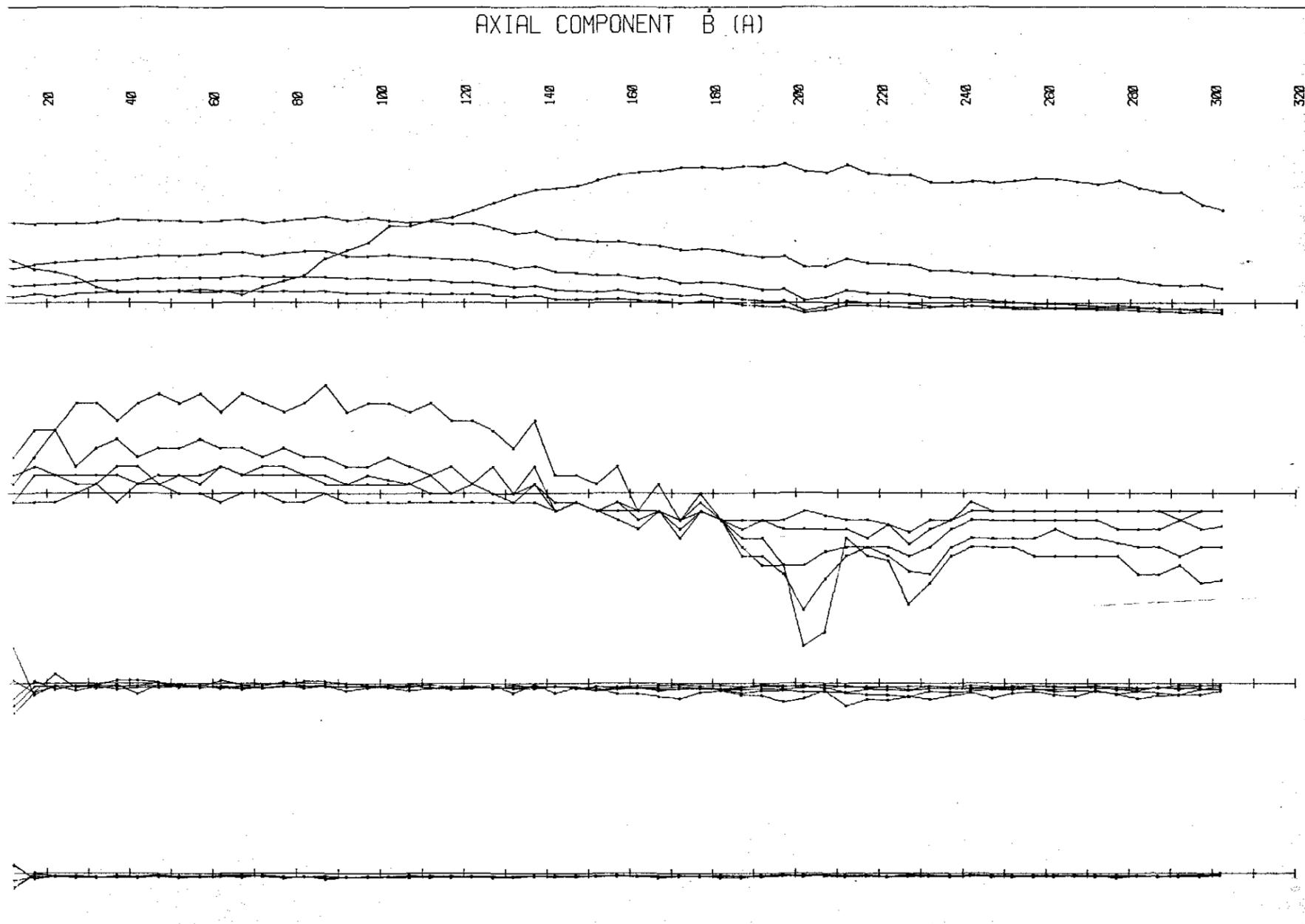
nanovolts per amp metre squared

TX LOOP SIDES : 00100N 00100E
: 00100S 00100W
TX LOOP SIZE : 200 m X 200 m
TX TURN OFF TIME : 120 microseconds.
FIRST GATE TIME : 88.5 microseconds.
CURRENT : 15.7 amps
FREQUENCY : 25 Hz.
INTEGRATION TIME : 256 cycles
SYNC MODE : CRYSTAL
HORIZONTAL SCALE : 1:1000
SURVEYED BY : SOCH
DATE : 29/10/1986

| | | |
|---|---|----------------------|
|  | SURVEYED AND COMPILED BY GEOTREX PTY. LTD. | PROJECT NO. 4-914 |
| | CLIENT : CRA Exploration PROJECT : Red Hills AREA : Lake Margaret Tas. BOREHOLE : R-5 TX LOOP : C | |

TASH 3525

883108



EM-37

BOREHOLE SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD
TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

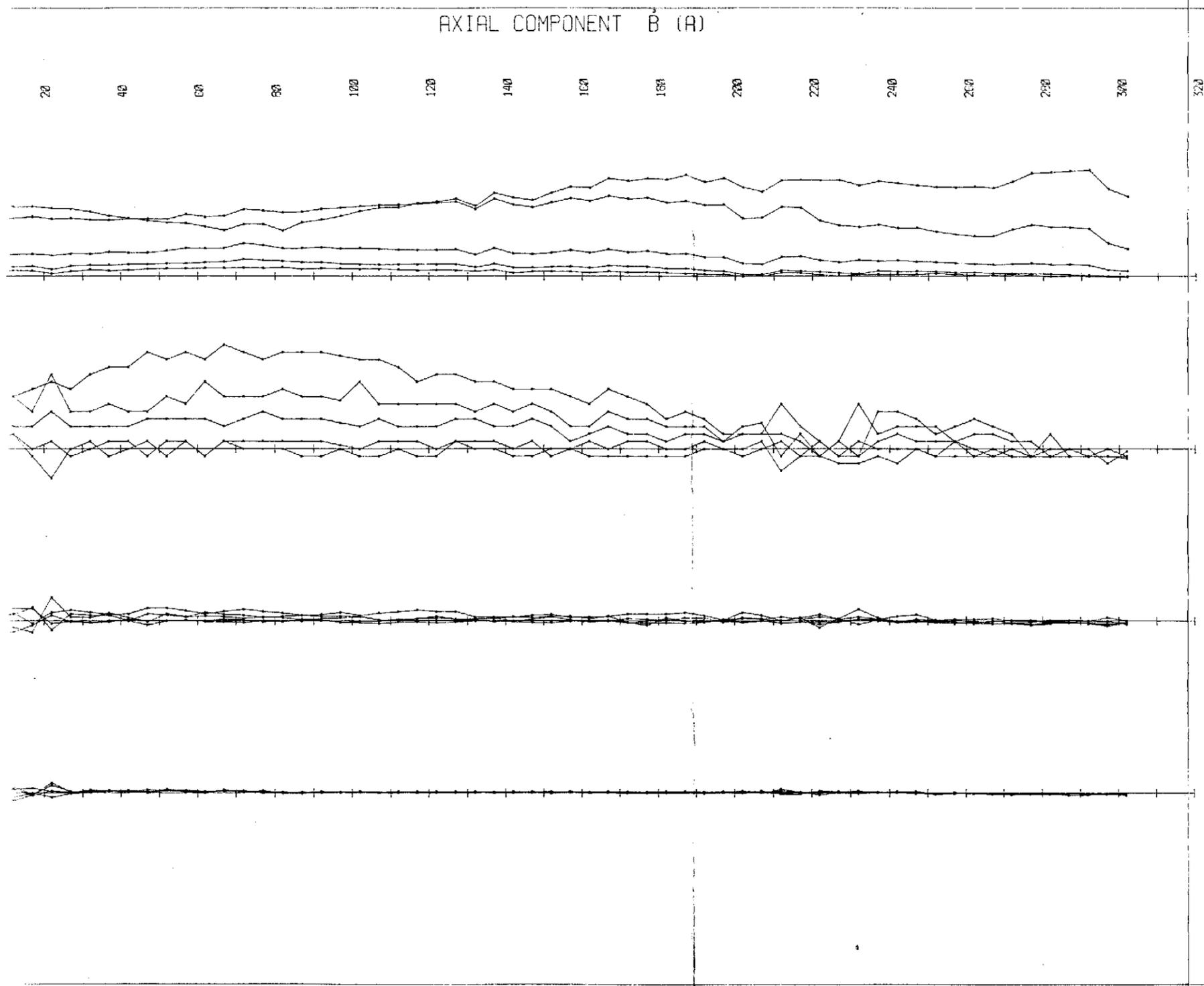
nanovolts per amp metre squared

TX LOOP SIDES : 00100N 00100E
: 00300N 00300E
TX LOOP SIZE : 200 m X 200 m
TX TURN OFF TIME : 115 microsecs.
FIRST GATE TIME : 88.5 microsecs.
CURRENT : 14.1 amps
FREQUENCY : 25 Hz.
INTEGRATION TIME : 256 cycles
SYNC MODE : CRYSTAL
HORIZONTAL SCALE : 1:1000
SURVEYED BY : SOCH
DATE : 04/11/1986

| | |
|---|----------------------|
| SURVEYED AND COMPILED BY GEOTERREX PTY. LTD. | PROJECT NO. 4-914 |
|---|----------------------|

CLIENT : CRA Exploration
PROJECT : Red Hills
AREA : Lake Margaret Tas.
BOREHOLE : RH12
TX LOOP : NE TASH 3526

883109



EM-37

BOREHOLE SURVEY

ELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD
TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

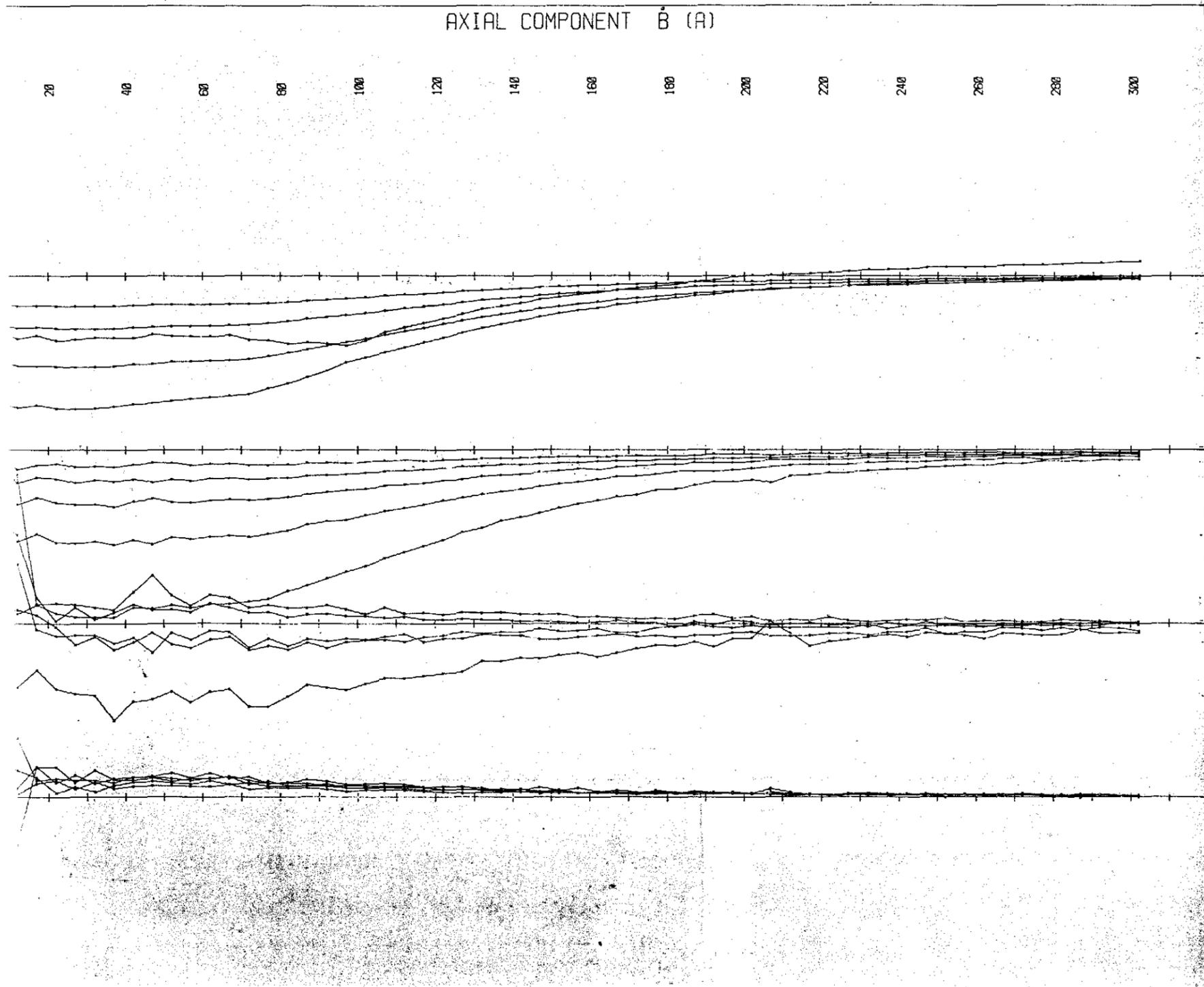
TX LOOP SIDES : 00100N 00300E
 : 00100S 00500E
TX LOOP SIZE : 200 m X 200 m
TX TURN OFF TIME : 150 microseconds
FIRST DATE TIME : 33.5 microseconds
CURRENT : 15.5 amps
FREQUENCY : 25 Hz
INTEGRATION TIME : 256 cycles
SYNC MODE : CRYSTAL
HORIZONTAL SCALE : 1:1000
SURVEYED BY : SOCH
DATE : 02/11/1986

| | | |
|---|---|----------------------|
| G | SURVEYED AND COMPILED BY GEOTERREX PTY. LTD. | PROJECT NO. 4-914 |
|---|---|----------------------|

CLIENT : CRA Exploration
PROJECT : Red Hills
AREA : Lake Margaret Twp.
BOREHOLE : RH12
TX LOOP : E

TASH 3527

883110



EM-37

BOREHOLE SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD
TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

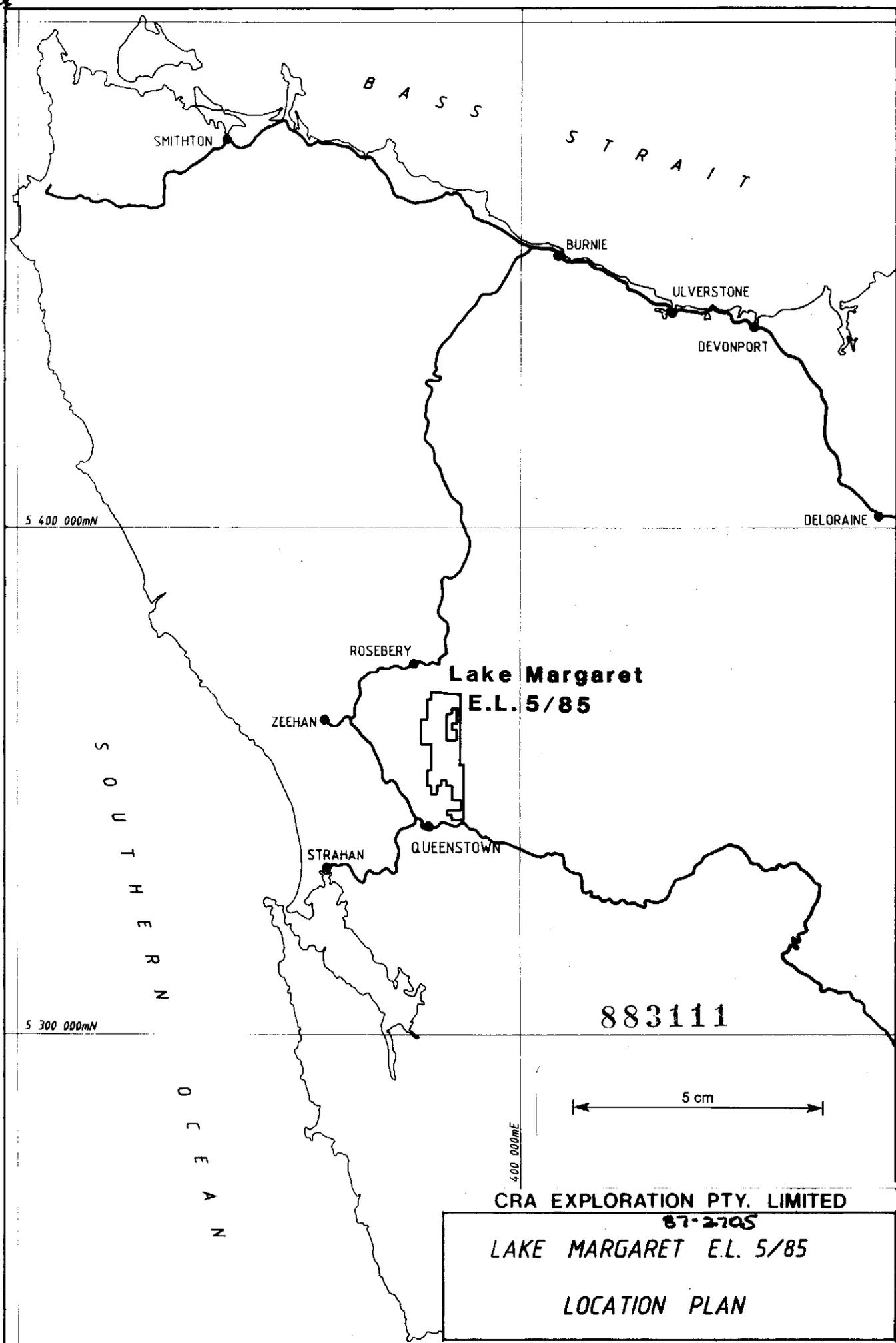
nanovolts per amp metre squared

TX LOOP SIDES : 00100N 00100E
 : 00100S 00100W
 TX LOOP SIZE : 200 m X 200 m
 TX TURN OFF TIME : 120 microsecs.
 FIRST GATE TIME : 88.5 microsecs.
 CURRENT : 14.0 amps
 FREQUENCY : 25 Hz.
 INTEGRATION TIME : 256 cycles
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1:1000
 SURVEYED BY : SOCH
 DATE : 03/11/1986

| | |
|---|----------------------|
| SURVEYED AND COMPILED BY GENTERREX PTY. LTD. | PROJECT NO. 4-914 |
|---|----------------------|

CLIENT : CRA Exploration
 PROJECT : Red Hill
 AREA : Lake Margaret Tss.
 BOREHOLE : RH12
 TX LOOP : C

TASh 3528



CRA EXPLORATION PTY. LIMITED

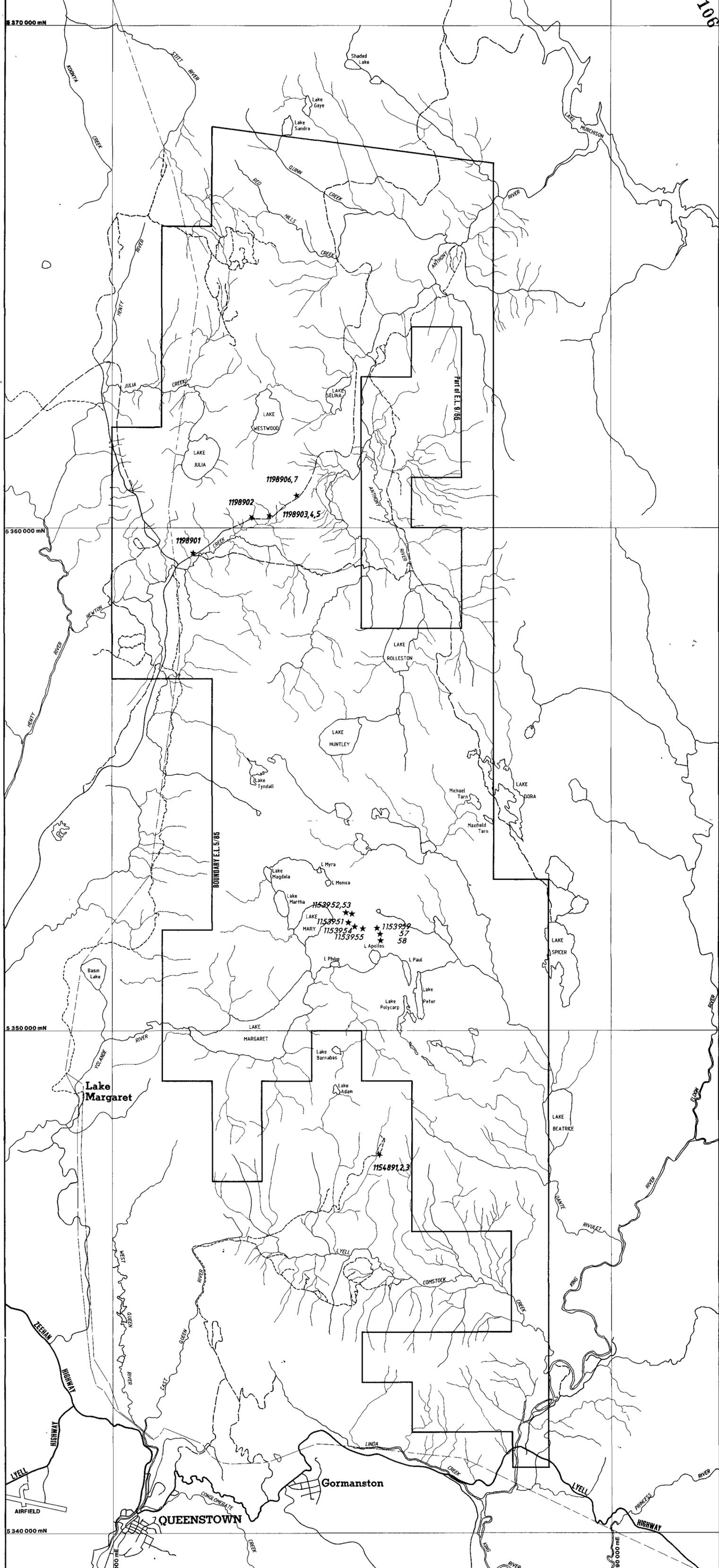
87-2705

LAKE MARGARET E.L. 5/85

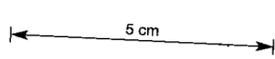
LOCATION PLAN

| | | |
|--------|---------------|-------------------|
| REF. | SK55 - 5 | (8013 - 8014) |
| SCALE | 1 : 1 000 000 | DRAWN R.T. |
| AUTHOR | T.v.S. | REPORT No. 14637 |
| DATE | 24 6 1986 | PLAN No TASH 3081 |

3 000 000mE



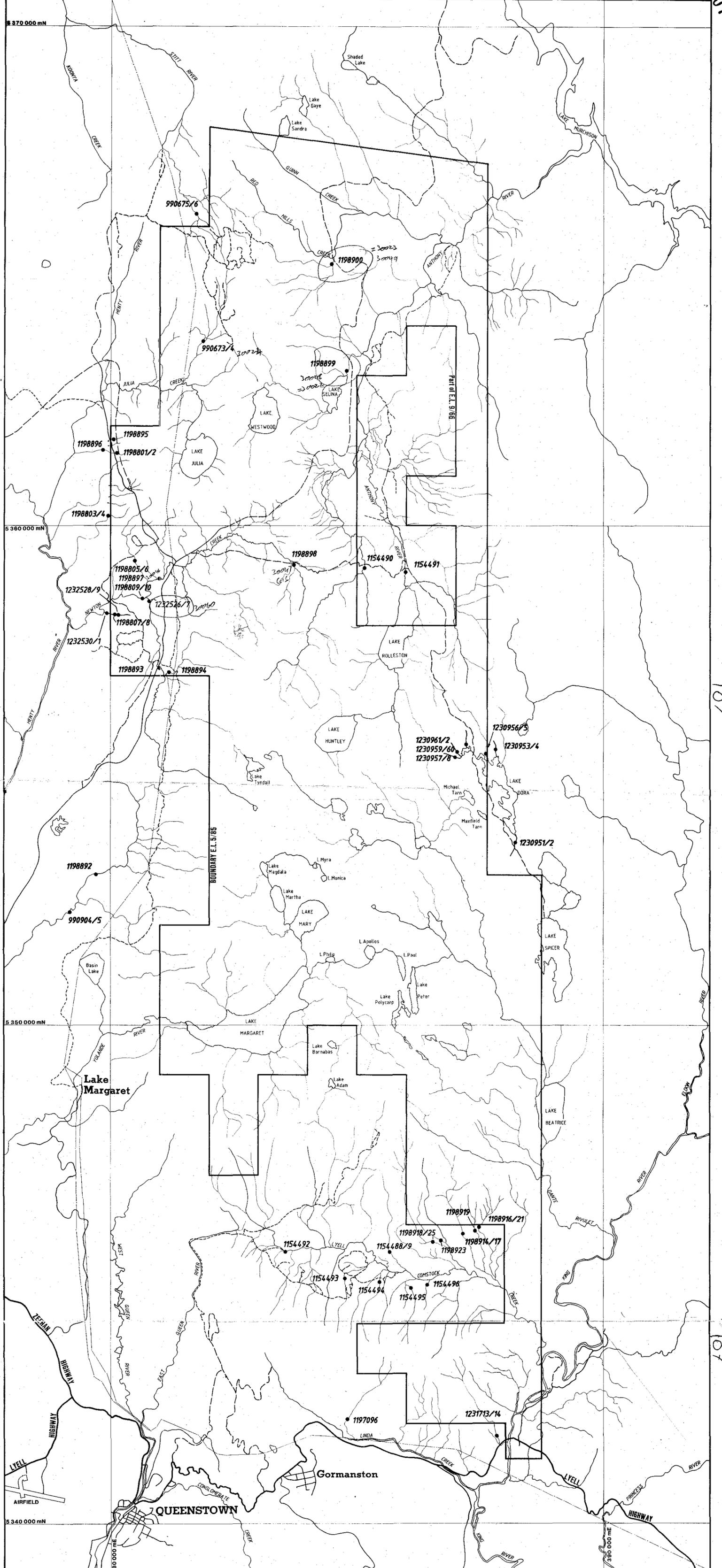
| Sample No | Cu | Pb | Zn | Ag | As | Fe% | Mn | Ba | Auppb |
|-----------|-----|------|------|----|----|------|------|------|-------|
| 1198901 | 5 | 15 | 110 | <1 | 7 | 2.29 | 70 | - | 5 |
| 1198902 | 10 | 5 | 15 | <1 | 19 | 0.93 | 95 | - | <3 |
| 1198903 | 2 | 5 | 10 | <1 | 7 | 2.92 | 40 | - | <3 |
| 1198904 | <2 | <5 | 5 | <1 | 7 | 2.48 | 35 | - | <3 |
| 1198905 | 2 | <5 | 5 | <1 | 5 | 1.73 | 25 | - | <3 |
| 1198906 | 4.5 | 5 | 5 | <1 | 13 | 0.80 | 25 | - | 20 |
| 1198907 | 10 | <5 | 10 | <1 | 3 | 0.98 | 20 | - | <3 |
| 1154891 | 30 | 1050 | 1400 | 3 | 85 | 6.37 | 600 | 910 | - |
| 1154892 | 30 | 185 | 260 | 1 | 32 | 3.61 | 580 | 960 | - |
| 1154893 | 100 | 540 | 910 | 3 | 11 | 8.08 | 2850 | 2000 | - |
| 1153951 | 10 | 104 | 25 | <1 | 32 | 21.9 | 380 | 170 | <3 |
| 1153952 | 5 | 64 | <5 | <1 | 18 | 6.89 | 40 | 40 | <3 |
| 1153953 | 10 | 96 | <5 | <1 | 46 | 24.5 | 80 | 140 | <3 |
| 1153954 | 10 | 92 | <5 | <1 | 28 | 20.4 | 125 | 120 | 15 |
| 1153955 | 10 | 60 | <5 | <1 | 18 | 8.41 | 80 | 60 | <3 |
| 1153956 | 10 | 36 | <5 | <1 | 22 | 4.04 | 45 | 190 | <3 |
| 1153957 | 10 | 112 | <5 | <1 | 22 | 4.79 | 45 | 360 | <3 |
| 1153958 | 10 | 112 | <5 | <1 | 22 | 4.79 | 45 | 360 | <3 |
| 1153959 | 10 | 20 | <5 | <1 | 70 | 37.7 | 80 | 30 | <3 |



883113

CRA EXPLORATION PTY. LIMITED
 87-2703
LAKE MARGARET E.L. 5/85
RECONNAISSANCE ROCK SAMPLING

| | | |
|--------|---------------|--------------------|
| REF | SK55 - 5 | (8013 - 8014) |
| SCALE | 1 : 50 000 | DRAWN R.T. |
| AUTHOR | W.A.S. | REPORT No. 14637 |
| DATE | 17 - 3 - 1987 | PLAN No. TASH 3292 |



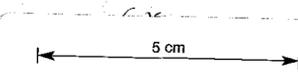
| Sample No. | ppt | ppm | ppb | Sample No. | ppt | ppm | ppb |
|------------|-------|-------|-----|------------|------|--------|-----|
| 990673/74 | 250 | - | 20 | 1198900 | <50 | <0.01 | - |
| 990675/76 | 100 | - | <3 | 1198914/17 | 150 | <0.01 | 10 |
| 990904/05 | 50 | <0.01 | <3 | 1198916/21 | 200 | <0.01 | 80 |
| 1154488/89 | 50 | <0.01 | <3 | 1198918/25 | 100 | 0.44 | 30 |
| 1154490 | <50 | <0.01 | - | 1198919 | - | - | 5 |
| 1154491 | <50 | 0.10 | - | 1198923 | - | - | 10 |
| 1154492 | 2200 | <0.01 | - | 1230951/52 | 1000 | <0.01 | 5 |
| 1154493 | 200 | 0.01 | - | 1230953/54 | 1000 | <0.01 | 150 |
| 1154494 | 100 | <0.01 | - | 1230955/56 | 1000 | <0.01 | 10 |
| 1154495 | 50 | <0.01 | - | 1230957/58 | 350 | <0.01 | <3 |
| 1154496 | 150 | <0.01 | - | 1230959/60 | 650 | <0.01 | <3 |
| 1197096 | 100 | - | - | 1230961/62 | 150 | <0.01 | 3 |
| 1198801/02 | 100 | <0.01 | <3 | 1231713/14 | 200 | <0.01 | 3 |
| 1198803/04 | 150 | <0.01 | <3 | 1232526/7 | 500 | <0.005 | 185 |
| 1198805/06 | 250 | <0.01 | <3 | 1232528/9 | 100 | <0.005 | 3 |
| 1198807/08 | 12000 | <0.01 | 35 | 1232530/1 | <50 | <0.005 | <3 |
| 1198809/10 | 2100 | <0.01 | 15 | | | | |
| 1198892 | 50 | <0.01 | - | | | | |
| 1198893 | 550 | 0.04 | - | | | | |
| 1198894 | 100 | <0.01 | - | | | | |
| 1198895 | 150 | <0.01 | - | | | | |
| 1198896 | <50 | - | - | | | | |
| 1198897 | <50 | <0.01 | - | | | | |
| 1198898 | 50 | <0.01 | - | | | | |
| 1198899 | <50 | <0.01 | - | | | | |

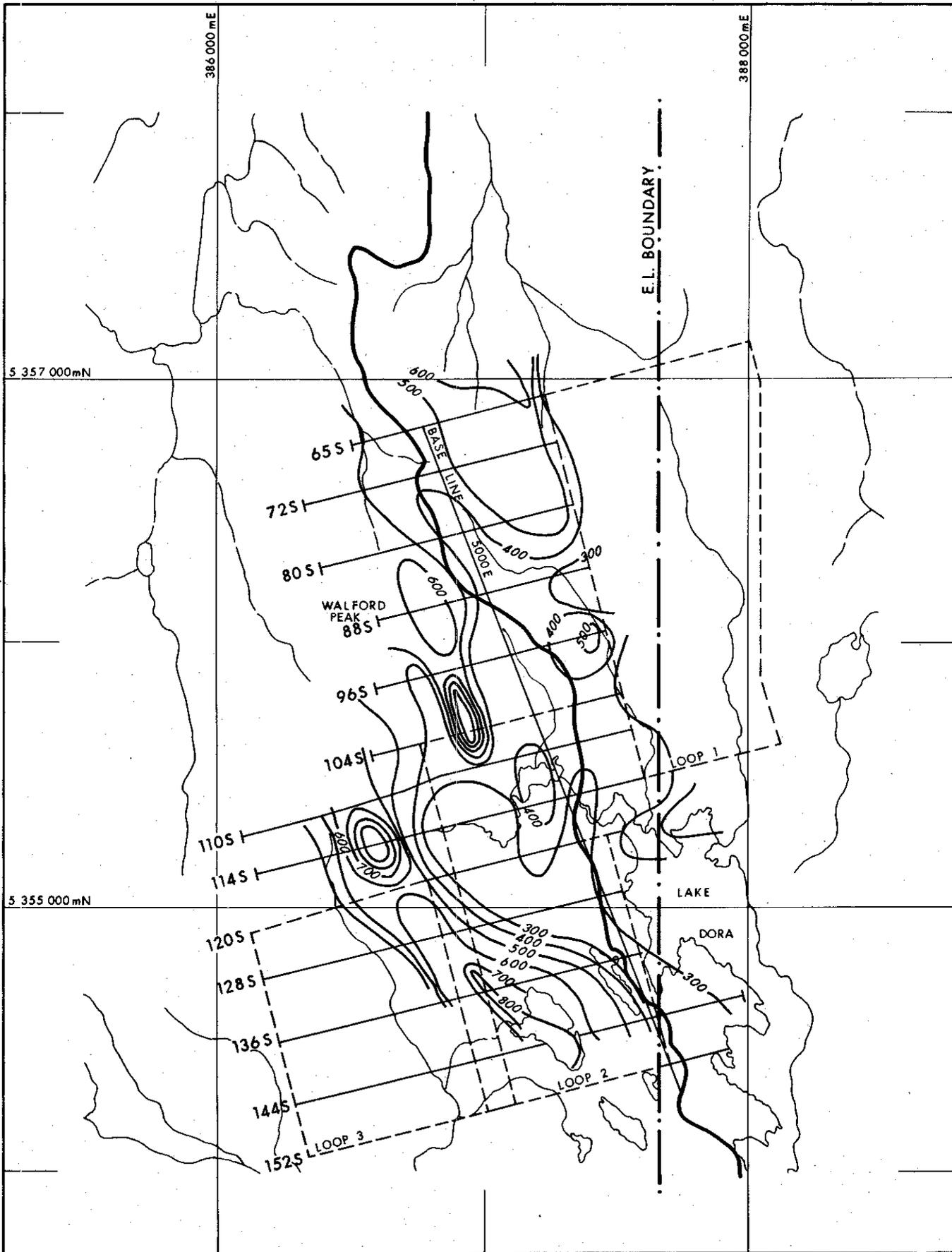
* N.B. *
ppt Au by Cyanide Leach
ppm Au using -80 mesh from excess fraction of Cyanide Leach sample
ppb Au from standard -80 mesh stream sediment sample.

883114

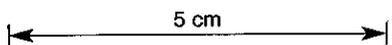
CRA EXPLORATION PTY. LIMITED
87-2705
LAKE MARGARET E.L. 5/85
STREAM SEDIMENT SAMPLING
GOLD GEOCHEMISTRY

| | |
|--------------------|--------------------|
| REF. SK55 - 5 | (8013 - 8014) |
| SCALE 1 : 50 000 | DRAWN R.T. |
| AUTHOR W.A.S. | REPORT No. 14637 |
| DATE 23 - 1 - 1987 | PLAN No. TASH 3287 |



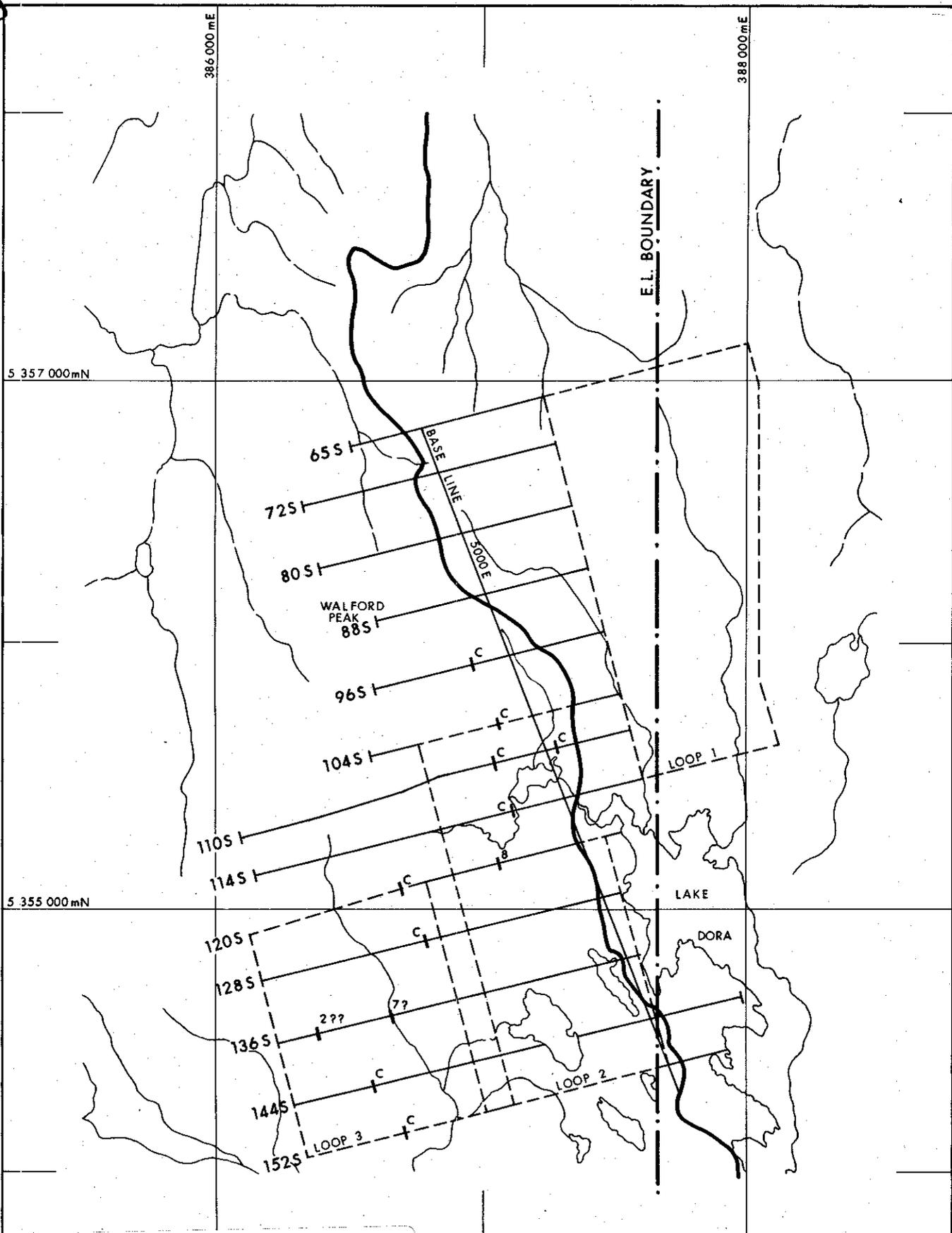


883115



| | |
|---|--------------------|
| CRA EXPLORATION PTY. LIMITED | |
| LAKE MARGARET E.L. 5/85 DORA SPICER PROSPECT | |
| GROUND MAGNETICS 87-2705 | |
| REF. SK 55-5 | (8013, 8014) |
| SCALE 1: 20000 | DRAWN T.N. |
| AUTHOR T.v.S | REPORT No. 14637 |
| DATE 3-4-87 | PLAN No. TASH 3370 |

109



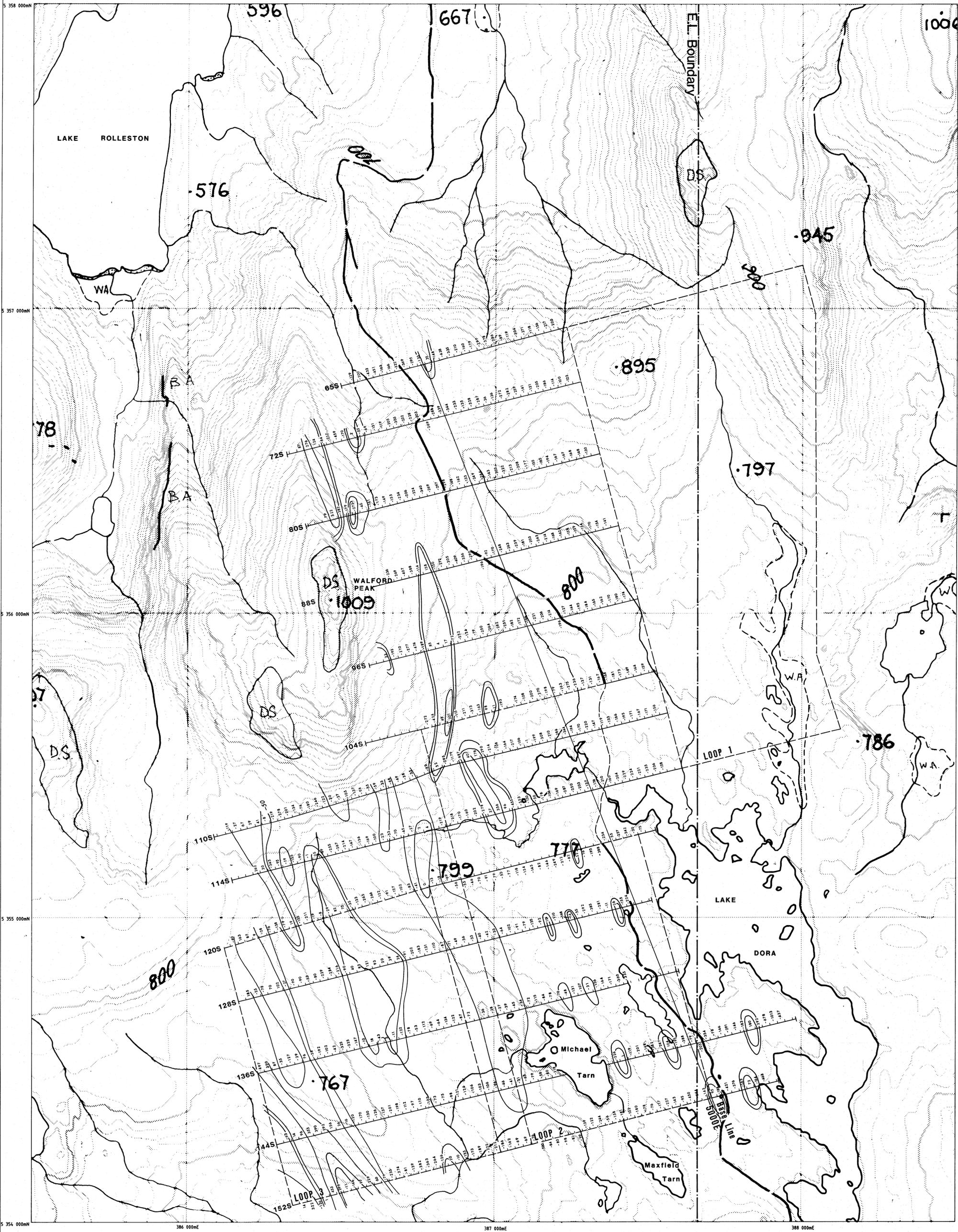
883117

CRA EXPLORATION PTY. LIMITED

LAKE MARGARET E.L. 5/85
DORA SPICER PROSPECT 87-2705

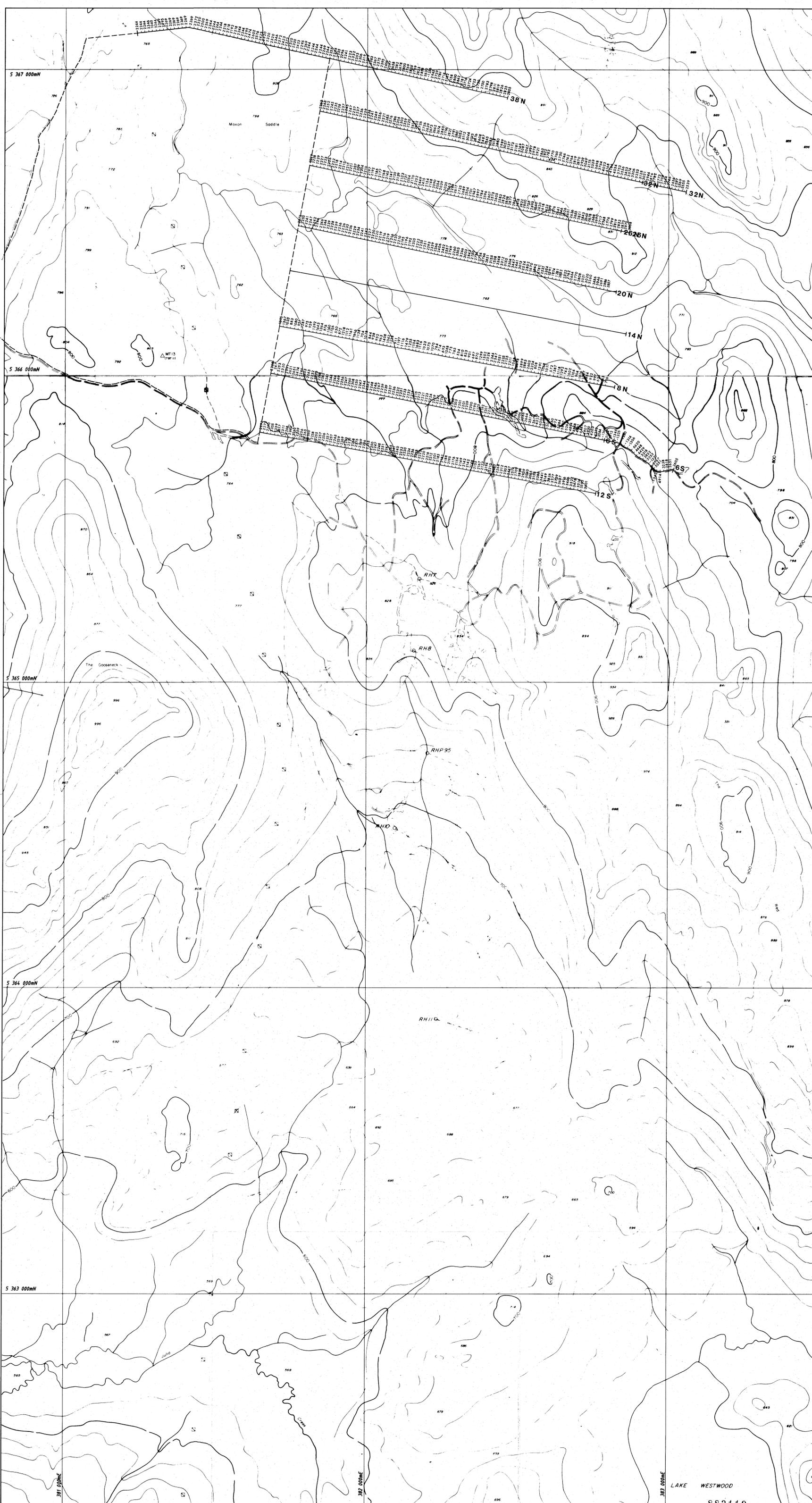
UTEM ANOMALY
LOCATION PLAN

| | |
|----------------|--------------------|
| REF. SK 55-5 | (8013, 8014) |
| SCALE 1: 20000 | DRAWN T.N. |
| AUTHOR T.v.S. | REPORT No. 14637 |
| DATE 6-4-87 | PLAN No. TASH 3372 |



CONTOURS AT 200.0 & -50 UNITS.
DATA PREPARED BY FRASER FILTERING
CONTINUOUSLY NORMALISED
VERTICAL FIELD DATA.

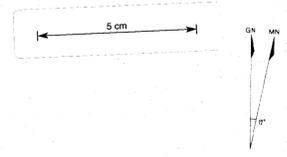
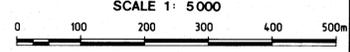
| | |
|------------------------------|---------------------------|
| 883118 | |
| CRA EXPLORATION PTY. LIMITED | |
| 87-2105 | |
| LAKE MARGARET E.L. 5/85 | |
| DORA SPICER PROSPECT | |
| CHANNEL 7 UTEM CONTOURS | |
| REF. | SK55 - 5 (8013 - 8014) |
| SCALE | 1:5000 DRAWN T.N. |
| AUTHOR | T.V.S. REPORT NO. 14637 |
| DATE | 6-4-87 PLAN NO. TASH 3373 |



883119

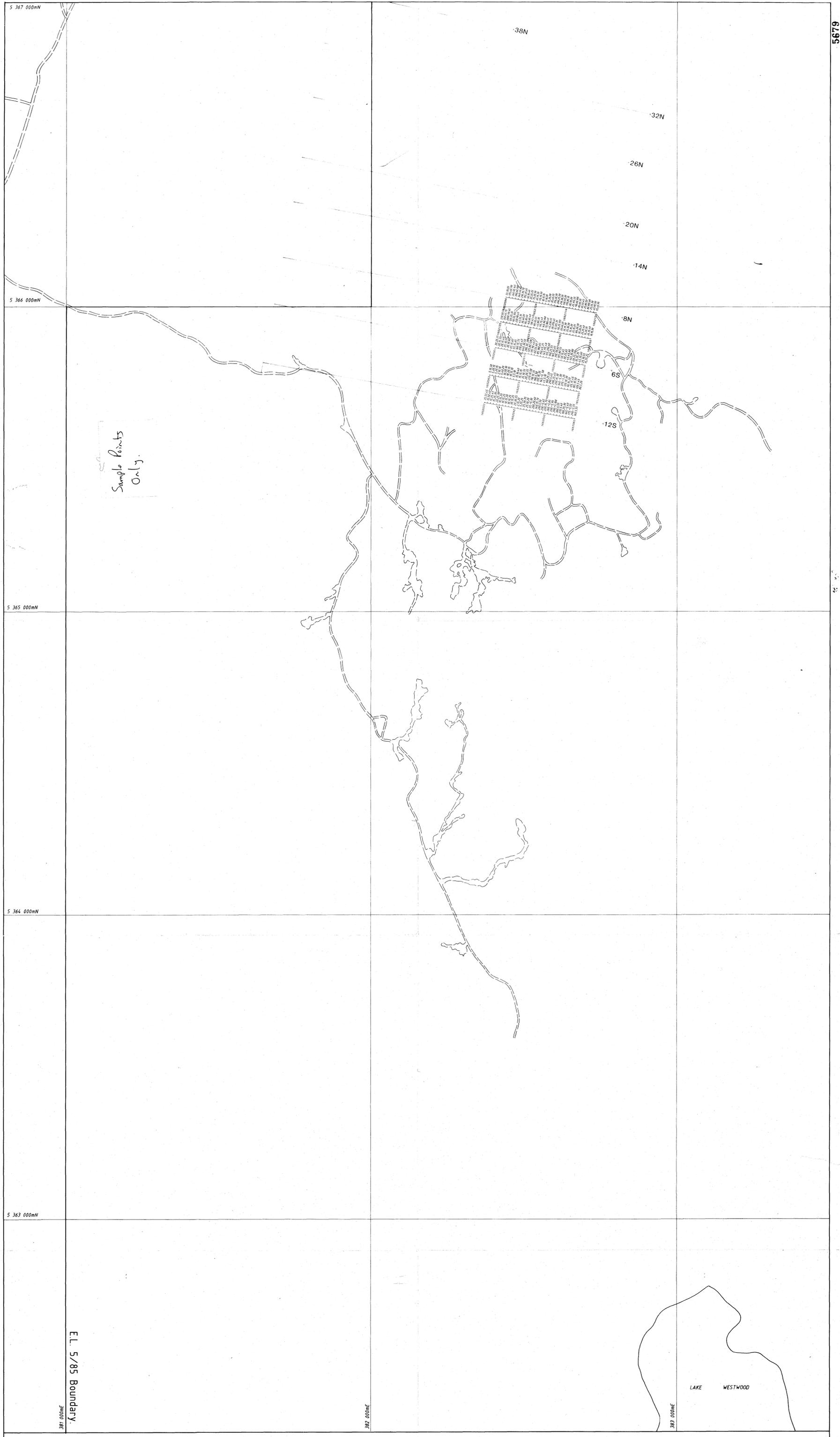
LAKE WESTWOOD

SCALE 1: 5000



| | |
|------------------------------|--------------------|
| CRA EXPLORATION PTY. LIMITED | |
| E.L. 5/85 87-2705 | |
| LAKE MARGARET AREA | |
| RED HILLS GRID | |
| GROUND MAGNETIC CONTOURS | |
| REF. SK55-5 (8014,8013) | |
| SCALE 1: 5000 | DRAWN T.N. |
| AUTHOR T.V.S. | REPORT No. 14637 |
| DATE 23-3-87 | PLAN No. TASH 3358 |

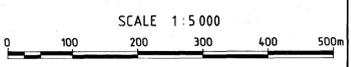
8.2.95



Sample Points
Only.

E.L. 5/85 Boundary.

LAKE WESTWOOD



SCALE 1:5 000

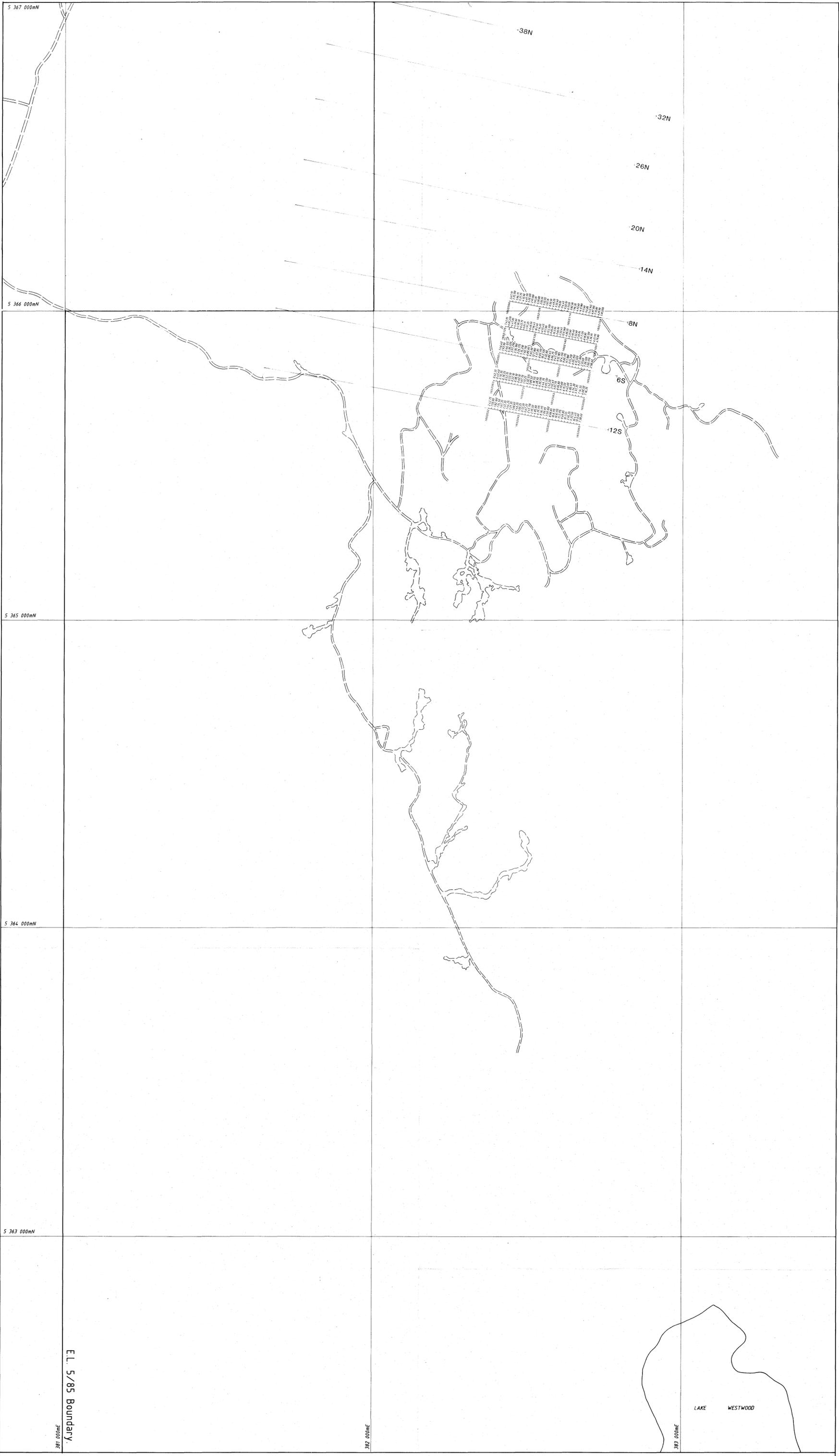
883120

CRA EXPLORATION PTY. LIMITED

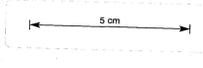
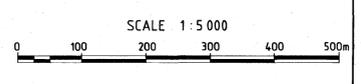
LAKE MARGARET E.L. 5/85
RED HILLS PROSPECT
SOIL SAMPLE RESULTS
Cu, Pb, Zn (ppm) 87-2705

| | | |
|--------|--------------|--------------------|
| REF. | SK55 - 5 | (8013 - 8014) |
| SCALE | 1 : 5000 | DRAWN R.T. |
| AUTHOR | M.A.S. | REPORT No. 16637 |
| DATE | 2 - 6 - 1987 | PLAN No. TASH 3435 |





EL. 5/85 Boundary.



| | |
|------------------------------|--------------------|
| CRA EXPLORATION PTY. LIMITED | |
| LAKE MARGARET E.L. 5/85 | |
| RED HILLS PROSPECT | |
| SOIL SAMPLE RESULTS | |
| Fe (%), Mn (ppm) 87-2105 | |
| REF. SK55 - 5 | 8 (8013 - 8014) |
| SCALE 1 : 5000 | DRAWN R.T. |
| AUTHOR W.A.S. | REPORT No. 14637 |
| DATE 2-6 - 1987 | PLAN No. TASH 2436 |

883122

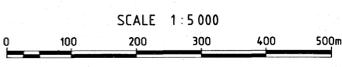
5880

3436



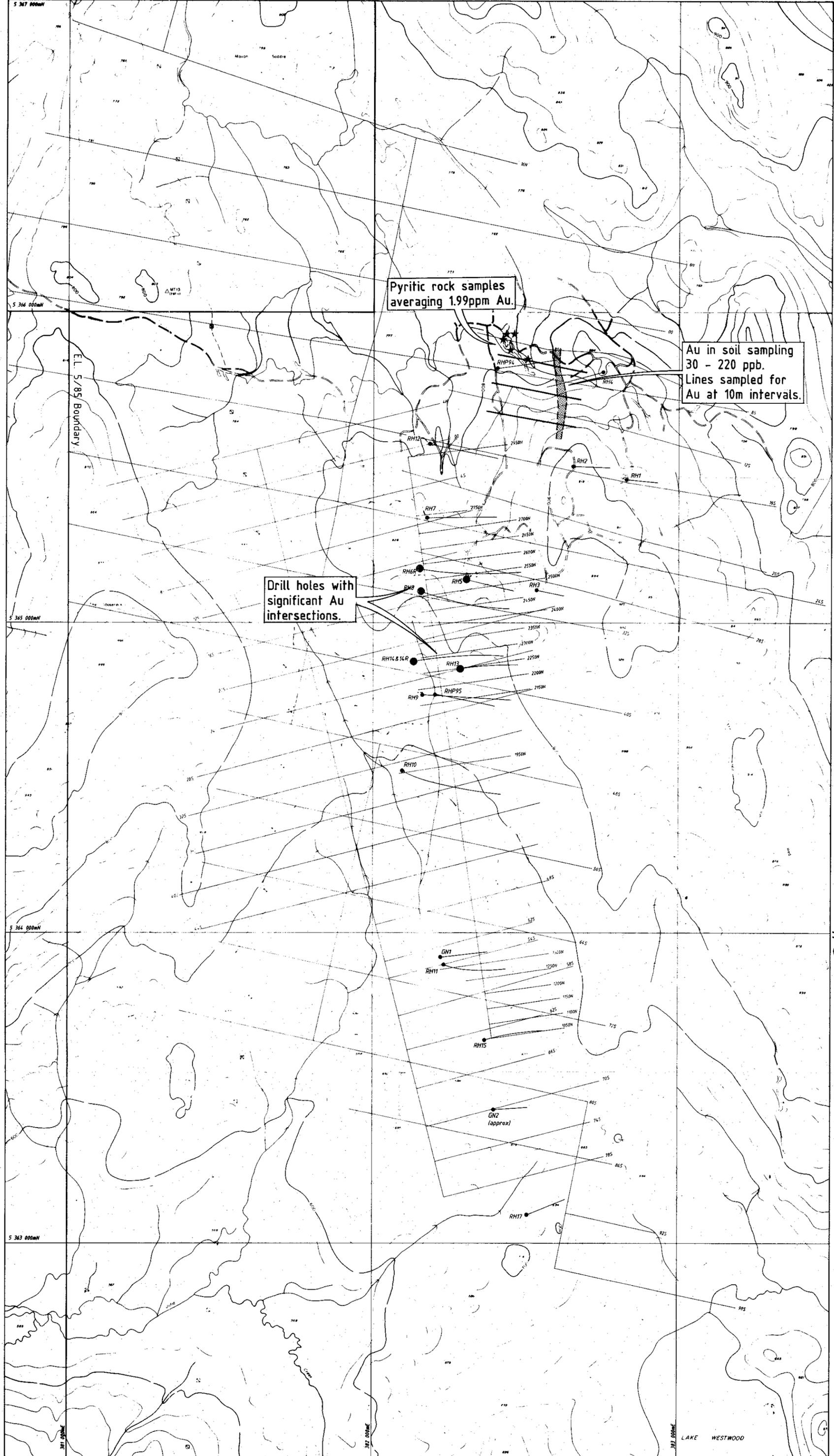
E.L. 5/85 Boundary.

LAKE WESTWOOD



883121

| | |
|--------------------------------|---------------------------------|
| CRA EXPLORATION PTY. LIMITED | |
| LAKE MARGARET E.L. 5/85 | |
| RED HILLS PROSPECT | |
| SOIL SAMPLE RESULTS | |
| Ag, As (ppm), Au (ppb) 47-2705 | |
| REF: | SK55 - 5 (8012 - 8014) |
| SCALE: | 1 : 5000 DRAWN: R.T. |
| AUTHOR: | W.A.S. REPORT NO: 14637 |
| DATE: | 2 - 6 - 1987 PLAN NO: TASH 2437 |

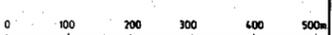


Pyritic rock samples averaging 1.99ppm Au.

Au in soil sampling 30 - 220 ppb. Lines sampled for Au at 10m intervals.

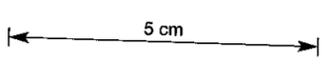
Drill holes with significant Au intersections.

E.L. 5/85 Boundary



883123

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|------------------------------|---------------------------------|
| CRA EXPLORATION PTY. LIMITED | |
| 87-2705 | |
| LAKE MARGARET E.L. 5/85 | |
| RED HILLS PROSPECT | |
| GOLD EXPLORATION SUMMARY | |
| REF. | SK55 - 5 (8013 - 8014) |
| SCALE | 1 : 10000 DRAWN R.T. |
| AUTHOR | T.v.S. REPORT No. 14637 |
| DATE | 11- 6 - 1987 PLAN No. TASH 1438 |

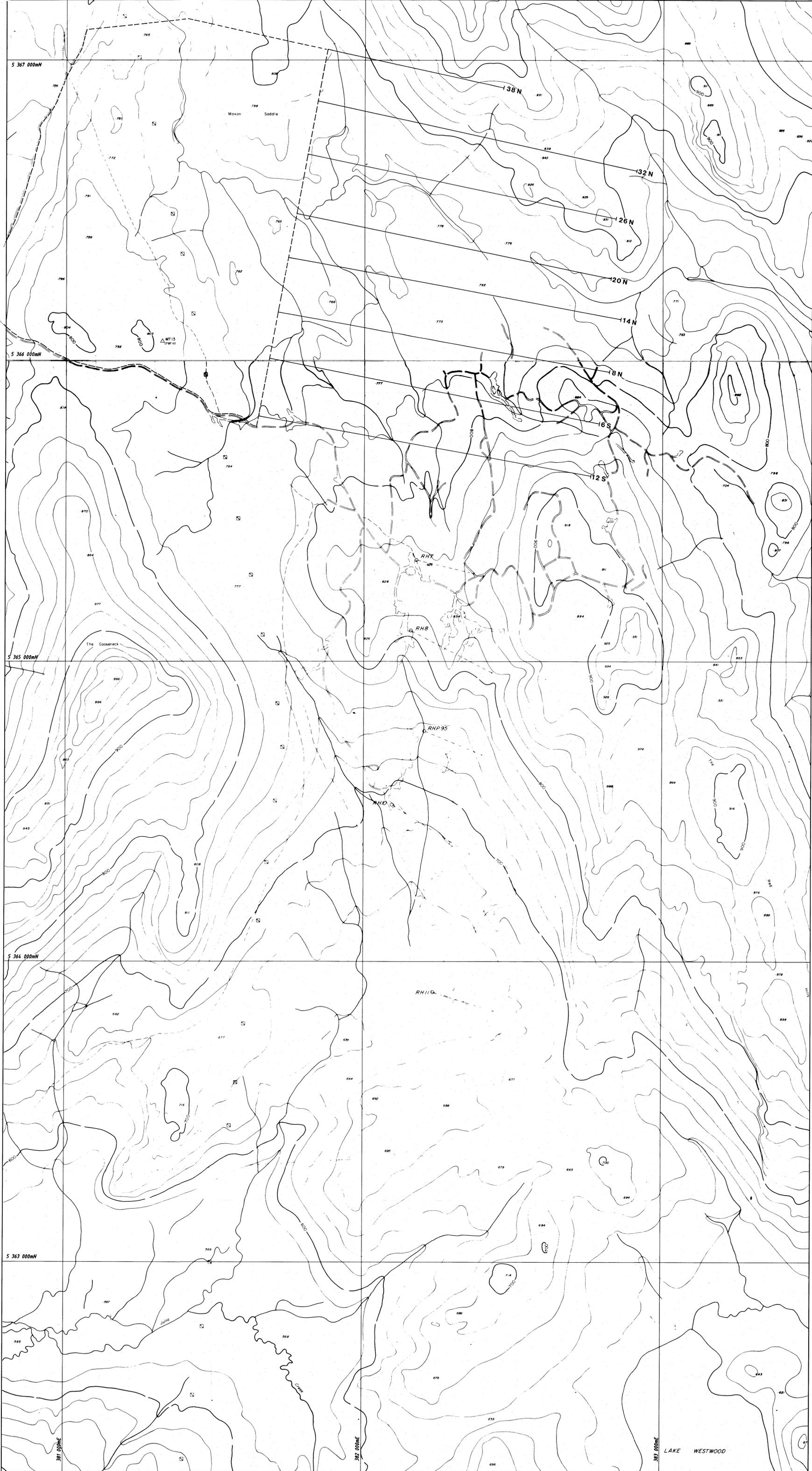


110

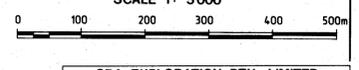
011

011

3438

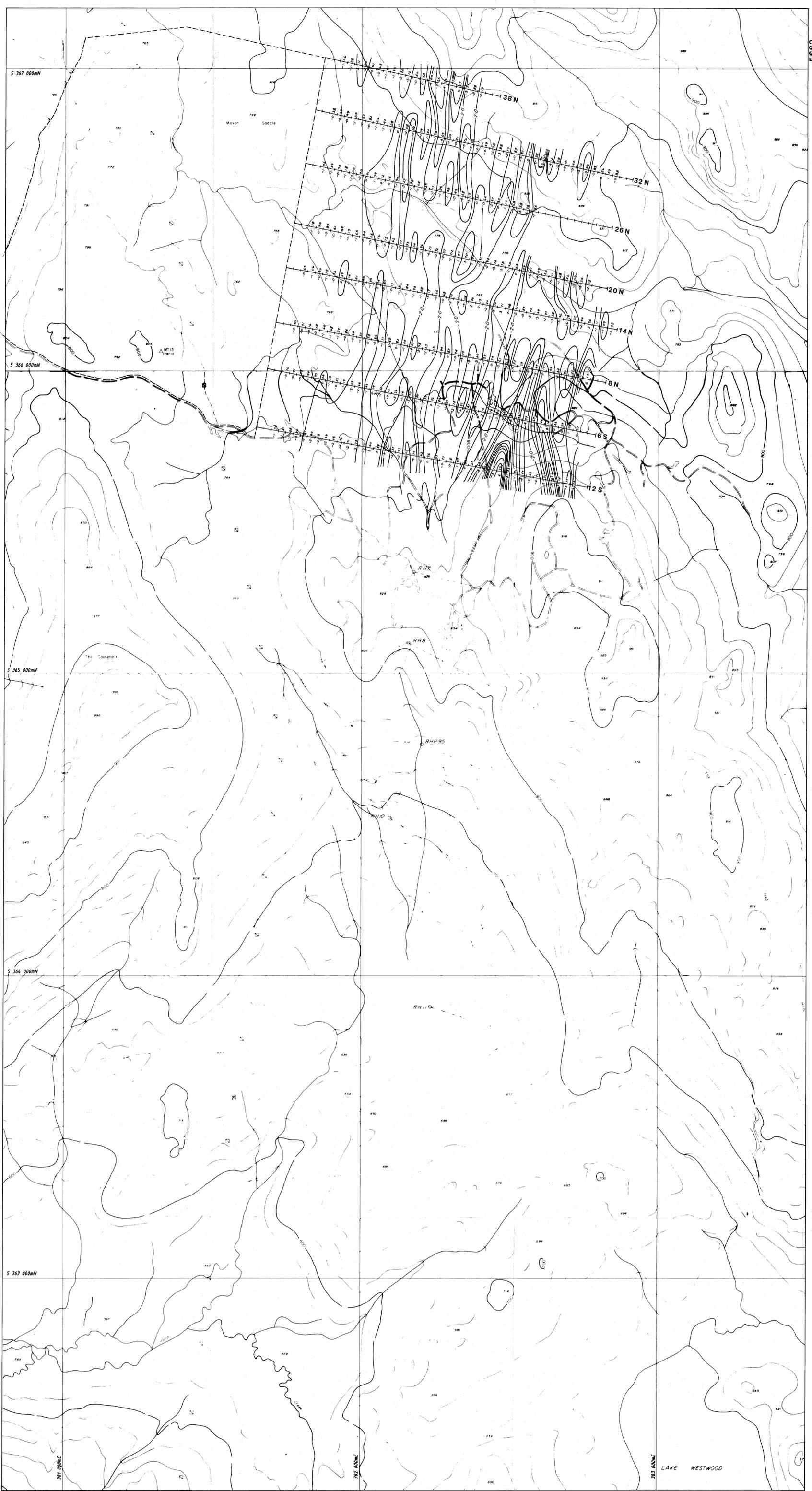


SCALE 1: 5000

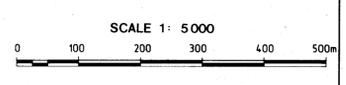


883124

| | |
|------------------------------|--------------------|
| CRA EXPLORATION PTY. LIMITED | |
| 87-210 S | |
| LAKE MARGARET E.L. 5/85 | |
| RED HILLS PROSPECT | |
| UTEM GRID | |
| REF. SK55 - 5 | (8013 - 8014) |
| SCALE 1 : 5000 | DRAWN R.T. |
| AUTHOR T.r.S. | REPORT No. 1437 |
| DATE March 1987 | PLAN No. TASH 3344 |

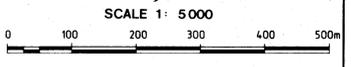
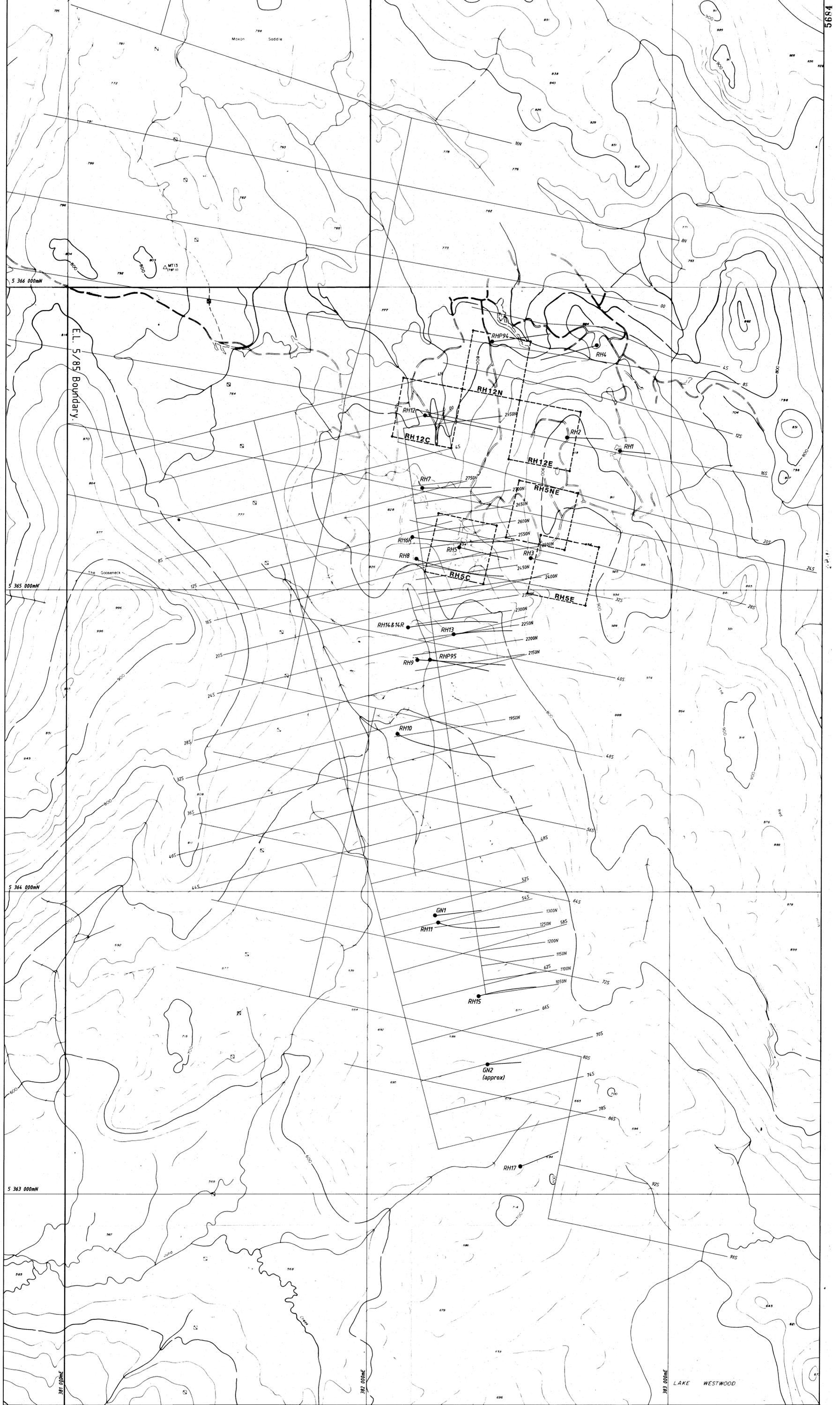


883125



NOTE: DATA IS CONTINUOUSLY NORMALISED AND FRASER FILTERED BEFORE PLOTTING
 FREQUENCY 26.23 Hz.
 STATION SPACING 25m
 ——— SURVEY LINE
 - - - - LOOP LINE

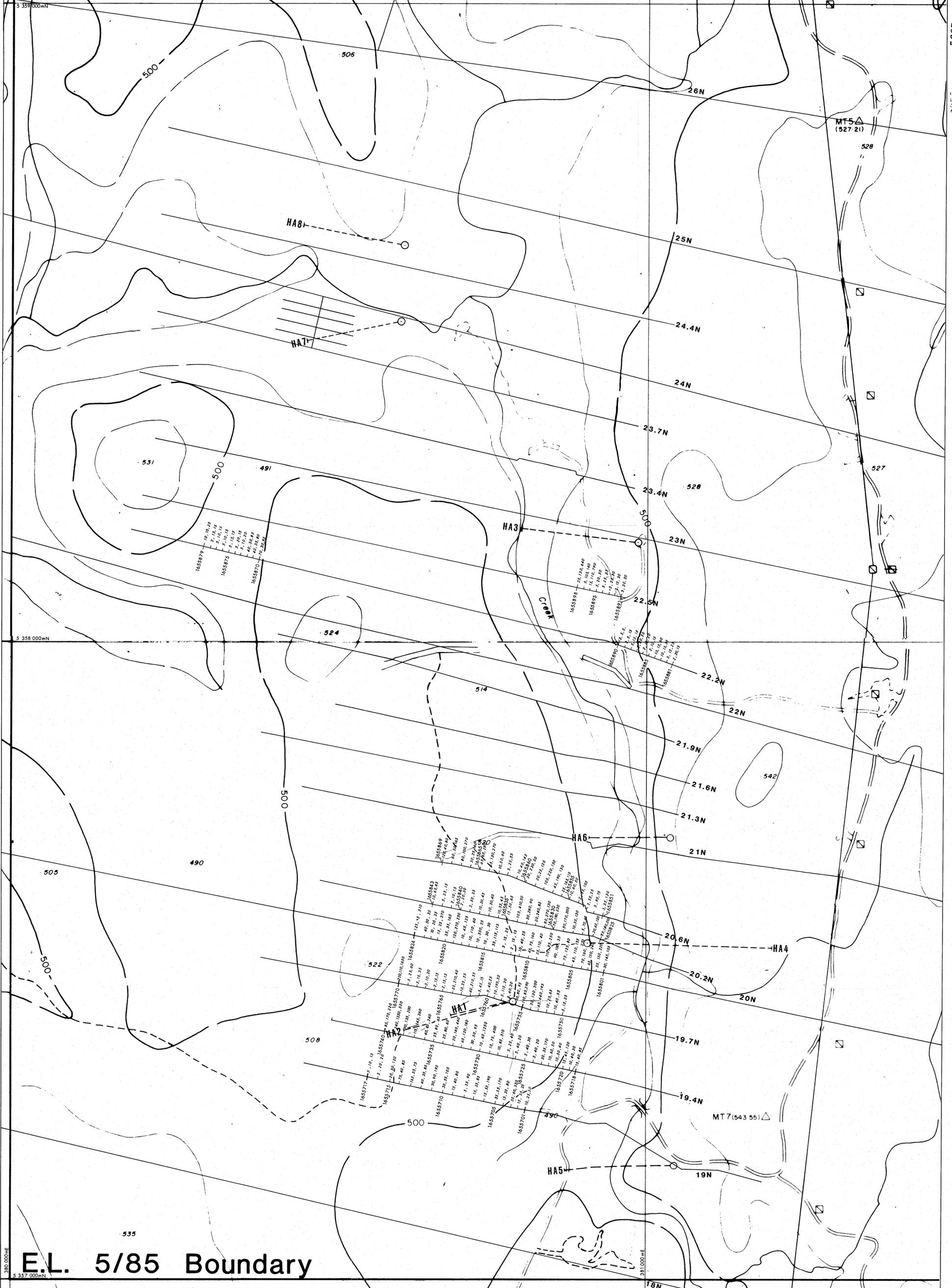
| | |
|------------------------------|--------------------|
| CRA EXPLORATION PTY. LIMITED | |
| EL. 5/85 87-270S | |
| LAKE MARGARET AREA | |
| RED HILLS GRID | |
| CHANNEL 7 UTM CONTOURS | |
| REF. SK 55-5 (8014,8013) | DRAWN T.N. |
| SCALE 1:5000 | REPORT No. 14637 |
| AUTHOR T.V.S. | PLAN No. TASH 3350 |
| DATE 16-3-'87 | |



883126

CRA EXPLORATION PTY. LIMITED
 LAKE MARGARET E.L. 5/85
 RED HILLS PROSPECT
 DOWN HOLE EM
 LOOP POSITIONS

| | | |
|---------|----------------|--------------------|
| REF: | SK55 - 5 | (8013 - 8014) |
| SCALE: | 1 : 5000 | DRAWN R.T. |
| AUTHOR: | T.v.s | REPORT No. 14637 |
| DATE: | 12 - 11 - 1986 | PLAN No. TASH 3181 |

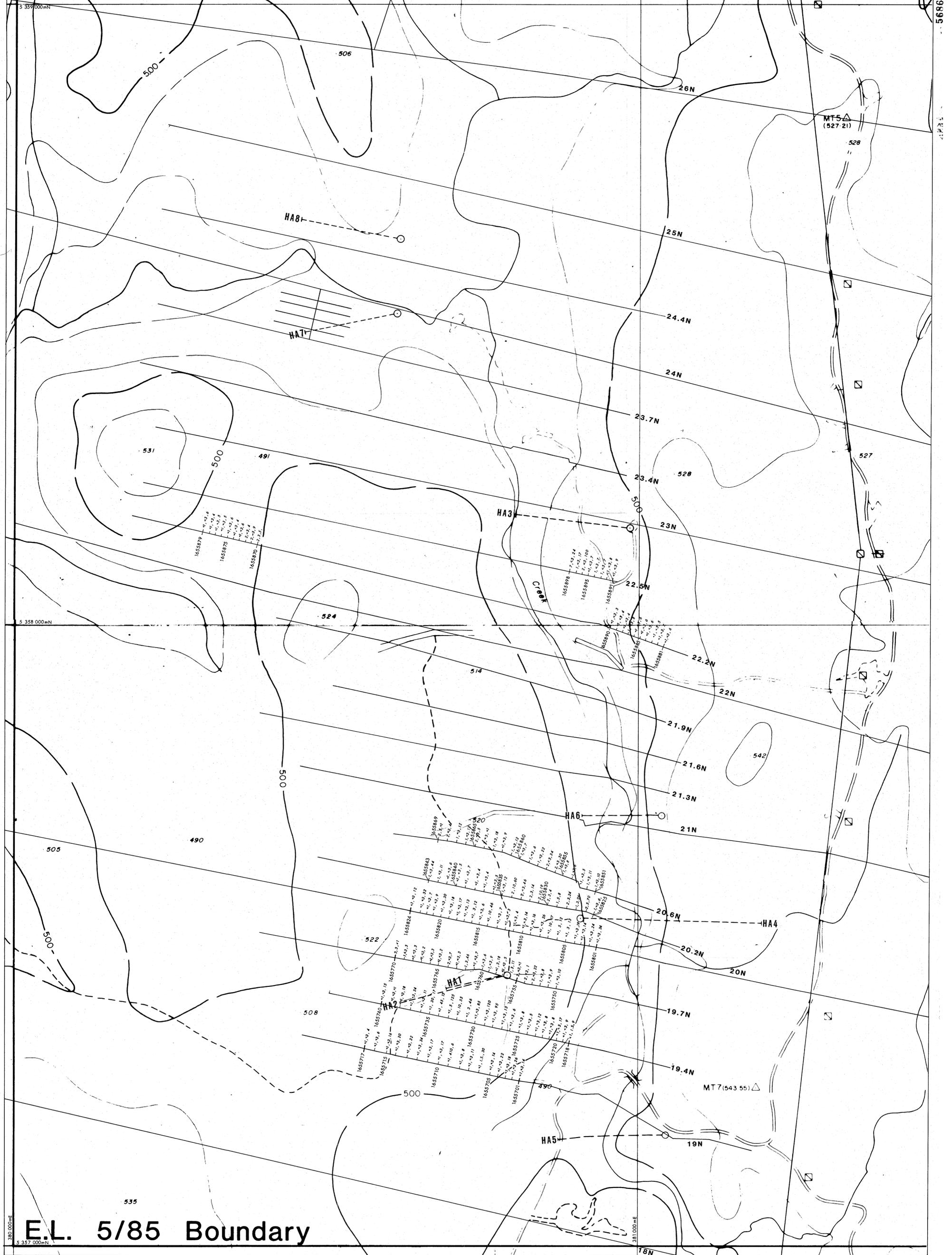


E.L. 5/85 Boundary

883127
 SCALE 1:2500
 0 50 100 150 200 250m

| | |
|------------------------------|--------------------|
| CRA EXPLORATION PTY. LIMITED | |
| E.L. 5/85 67-270S | |
| LAKE MARGARET AREA | |
| HOWARDS ANOMALY GRID | |
| SOIL GEOCHEMISTRY | |
| Cu, Pb, Zn | |
| REF. SK 55-5 | (8013, 8014) |
| SCALE 1:2500 | DRAWN T.N. |
| AUTHOR W.A.S. | REPORT No. 14637 |
| DATE 17-3-1987 | PLAN No. TASH 3353 |

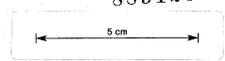
Sample No. (mm)
 Cu, Pb, Zn



E.L. 5/85 Boundary

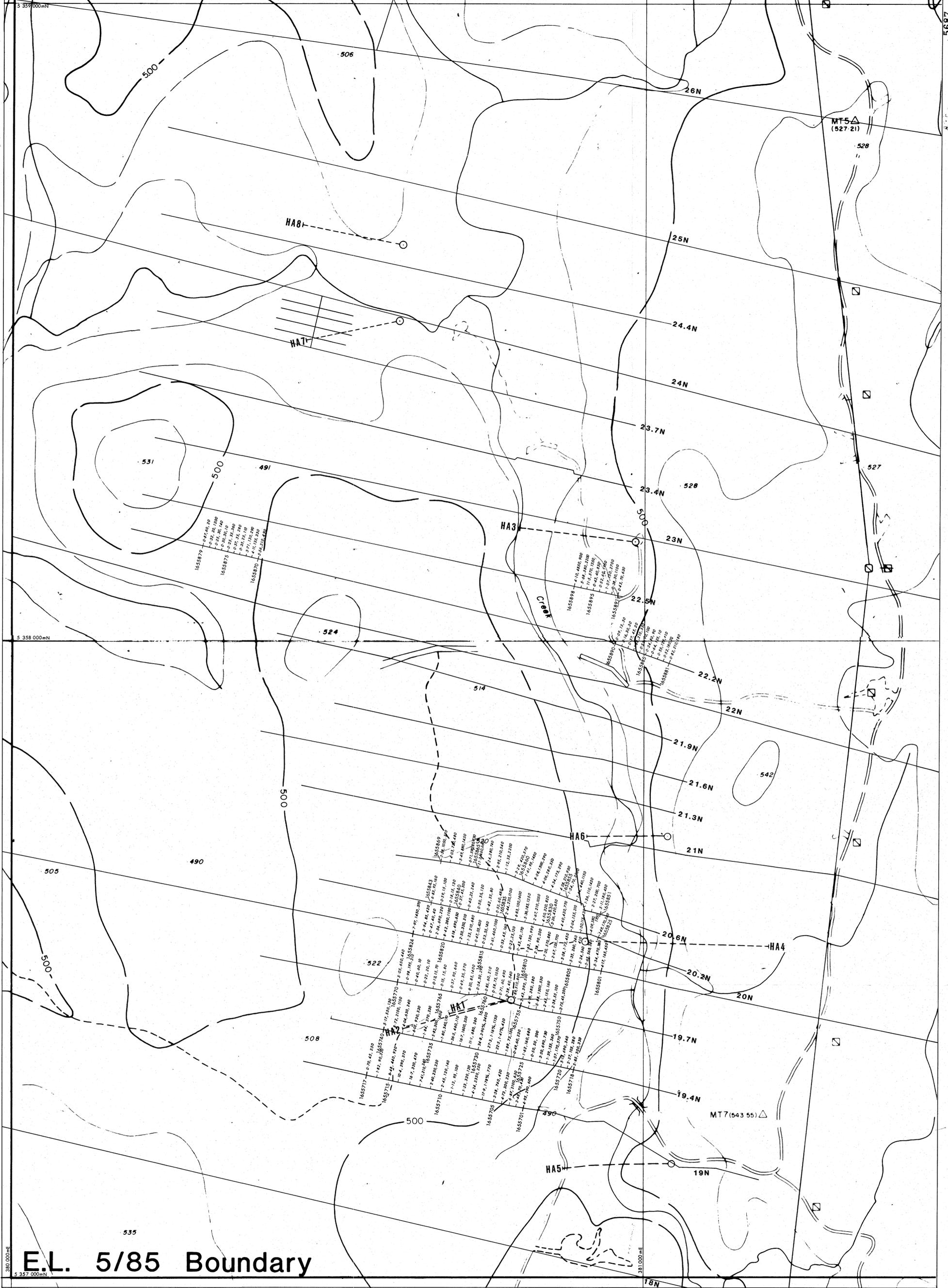
883128

SCALE 1:2500

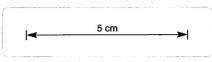


| | |
|------------------------------|---------------------|
| CRA EXPLORATION PTY. LIMITED | |
| E.L. 5/85 57-2705 | |
| LAKE MARGARET AREA | |
| HOWARDS ANOMALY GRID | |
| SOIL GEOCHEMISTRY | |
| Ag, Au, As | |
| REF. SK 55-5 | (8013, 8014) |
| SCALE 1:2500 | DRAWN T.N. |
| AUTHOR W.A.S. | REPORT No. 14637 |
| DATE 17-3-1987 | PLAN No. TASH. 3354 |

Sample No. (Ag, Au, As)



E.L. 5/85 Boundary



883129
SCALE 1:2500

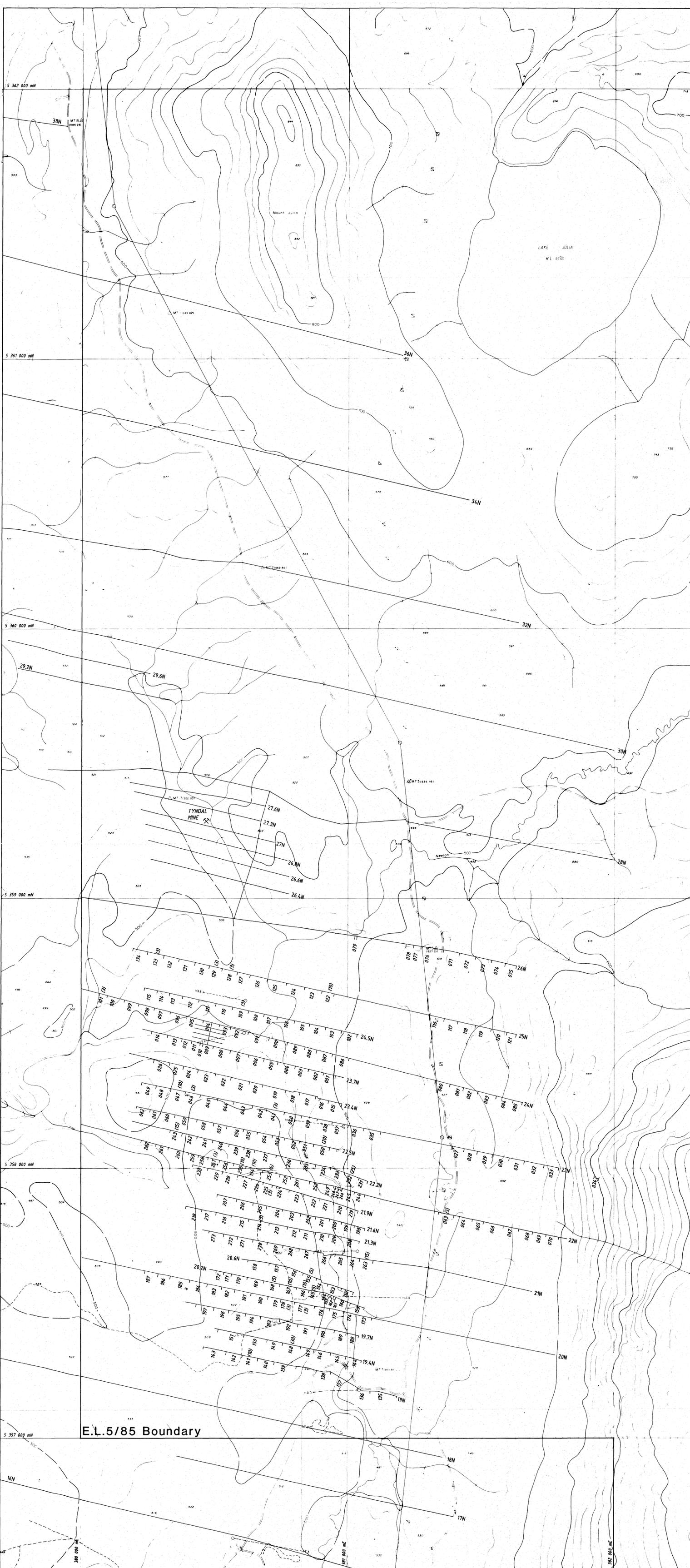
| | |
|------------------------------|--------------------|
| CRA EXPLORATION PTY. LIMITED | |
| E.L. 5/85 87-2705 | |
| LAKE MARGARET AREA | |
| HOWARDS ANOMALY GRID | |
| SOIL GEOCHEMISTRY | |
| Fe, Mn, Ba | |
| REF. SK 55-5 | (8013, 8014) |
| SCALE 1:2500 | DRAWN T.N. |
| AUTHOR W.A.S. | REPORT No. 14637 |
| DATE 17-3-1987 | PLAN No. TASH 3355 |

Sample No. (M) (mm) (cm) (M) (Mn) (Ba)

380 000-E

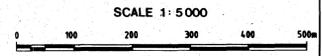
357 000-M

5687



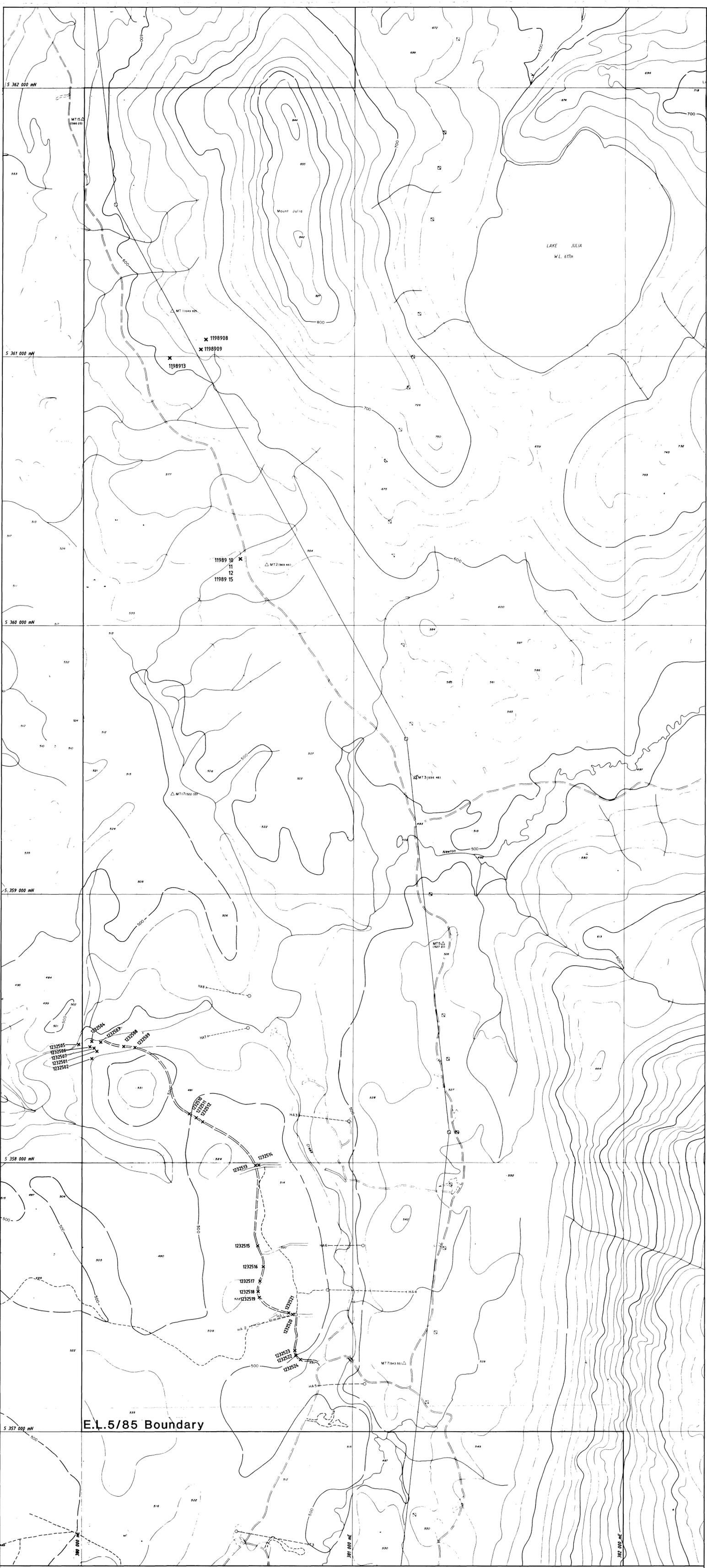
E.L.5/85 Boundary

883130



**** NOTE ****
 All results less than 3 ppb except
 results plotted beside sample numbers.

| | |
|------------------------------|--------------------|
| CRA EXPLORATION PTY. LIMITED | |
| 37-2105 | |
| LAKE MARGARET E.L. 5/85 | |
| HOWARDS ANOMALY | |
| Au in composite soil samples | |
| REF. SK55 - 5 | (8013 - 8014) |
| SCALE 1:5000 | DRAWN R.T. |
| AUTHOR W.A.S. | REPORT No. 14637 |
| DATE 19 - 2 - 1987 | PLAN No. TASH 3296 |



| Sample No. | Cu | Pb | Zn | Ag | As | Fe% | Mn | Ba | Au |
|------------|----|----|----|----|------|------|-----|-----|----|
| 1198908 | 25 | 70 | <1 | 71 | 2.54 | 150 | 590 | 3 | |
| 1198909 | 15 | 60 | 1 | 4 | 2.94 | 140 | 650 | <3 | |
| 1198910 | 25 | <5 | 70 | 1 | 10 | 3.20 | 130 | 640 | 3 |
| 1198911 | 50 | <5 | 70 | 1 | 8 | 3.37 | 115 | 660 | 3 |
| 1198912 | 10 | 5 | 95 | <1 | <1 | 2.44 | 710 | 290 | 3 |
| 1198913 | 5 | 5 | 55 | <1 | 1 | 2.69 | 150 | 920 | 5 |
| 1198915 | 10 | <5 | 60 | 1 | <1 | 2.64 | 95 | 830 | 50 |

| Sample No. | Cu | Pb | Zn | Ag | As | Fe% | Mn | Ba | Au | ppb |
|------------|-----|-----|-----|----|------|------|------|------|----|-----|
| 1232501 | 270 | 8 | 715 | 4 | <1 | 5.27 | 720 | 1550 | 3 | |
| 1232502 | 70 | 12 | 35 | 2 | <1 | 4.92 | 530 | 360 | <3 | |
| 1232503 | 5 | 8 | 35 | 1 | <1 | 2.63 | 300 | 840 | <3 | |
| 1232504 | 15 | 60 | 60 | 1 | 2 | 2.98 | 380 | 610 | <3 | |
| 1232505 | 10 | 20 | 60 | 1 | 2 | 4.50 | 510 | 510 | <3 | |
| 1232506 | 45 | 16 | 90 | 1 | 1 | 3.49 | 310 | 220 | <3 | |
| 1232507 | 40 | 60 | 120 | 2 | 50 | 5.12 | 570 | 890 | <3 | |
| 1232508 | 20 | 16 | 105 | 3 | <1 | 4.48 | 1500 | 780 | <3 | |
| 1232509 | 150 | 160 | 30 | 2 | 40 | 3.41 | 100 | 1950 | 15 | |
| 1232510 | 25 | 12 | 180 | 1 | <1 | 3.28 | 270 | 2200 | <3 | |
| 1232511 | 115 | 92 | 185 | 4 | 30 | 3.40 | 720 | 250 | <3 | |
| 1232512 | 50 | 152 | 160 | 2 | 20 | 3.99 | 360 | 1950 | <3 | |
| 1232513 | 25 | 12 | 105 | 3 | 8 | 7.18 | 430 | 460 | <3 | |
| 1232514 | 80 | 65 | 13 | <1 | 5.84 | 420 | 730 | 3 | | |
| 1232515 | 35 | 240 | 300 | 3 | 10 | 10.2 | 2450 | 620 | 5 | |
| 1232516 | 25 | 44 | 175 | 2 | 4.18 | 720 | 1200 | 3 | | |
| 1232517 | 20 | 92 | 210 | 2 | 5 | 6.34 | 770 | 1350 | 3 | |
| 1232518 | 95 | 660 | 180 | 2 | 42 | 6.60 | 870 | 1650 | 10 | |
| 1232519 | 190 | 390 | 105 | 3 | 32 | 7.29 | 430 | 800 | 5 | |

All results in ppm except: Fe in %, & Au in ppb.

SCALE 1: 5000

883131

5 cm

CRA EXPLORATION PTY. LIMITED
 LAKE MARGARET E.L. 5/85
 HOWARDS ANOMALY
 GEOCHEMISTRY RESULTS
 (ROCKS)

| | | |
|--------|----------------|--------------------|
| REF. | SKS - 5 | (8013 - 8014) |
| SCALE | 1: 5000 | DRAWN R.T. |
| AUTHOR | W.A.S. | REPORT No. 1437 |
| DATE | 11 - 11 - 1986 | PLAN No. TASH 3790 |