

Aberfoyle Resources Limited

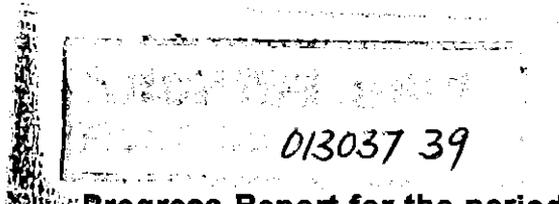
EXPLORATION DIVISION
ACN 004 664 108

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EXPLORATION LICENCE 106/87

LAKE MACKINTOSH

TASMANIA



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Progress Report for the period

April 1993 - February 1994

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VOLUME 1 OF 1

18 Transparencies Held

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Manager

Distribution

- Aberfoyle - Burnie (1/3)
- Aberfoyle - Hawthorn (2/3)
- Mineral Resources Tas. (3/3)

LIST OF CONTENTS

	Page No.
1.0 SUMMARY	1
2.0 INTRODUCTION	2
3.0 AEROMAGNETIC AND RADIOMETRIC SURVEY	3
3.1 Introduction	3
3.2 Aeromagnetic Interpretation	3
3.2.1 Introduction	3
3.2.2 Results	4
3.3 Radiometric Data	6
4.0 SOUTH QUE RIVER AREA	7
4.1 Introduction	7
4.2 Geophysics	7
5.0 MOUNT CHARTER AREA	8
5.1 Introduction	8
5.2 Geophysics	8
6.0 MURCHISON HIGHWAY ZONE	9
6.1 Introduction	9
6.2 Geophysics	9
7.0 SOUTH MOUNT CHARTER AREA	10
7.1 Introduction	10
7.2 DDH MAC 36	11
7.2.1 Introduction	11
7.2.2 Geology	11
7.2.3 Geochemistry	12
7.2.4 Geophysics	12

8.0	BARITE CREEK AREA	13
8.1	Introduction	13
8.2	DDH MAC 37	14
8.2.1	Introduction	14
8.2.2	Geology	14
8.2.3	Geochemistry	17
8.2.4	Geophysics	18
9.0	GRAVITY SURVEY	19
10.0	CONCLUSIONS	20
11.0	REFERENCES	21

APPENDICES

- I DDH MAC 28, Downhole UTEM, survey results.
- II DDH MAC 33, Downhole UTEM, survey results.
- III DDH MAC 35, Downhole UTEM, survey results.
- IV DDH MAC 37, detailed log.
- V DDH MAC 37, core grind geochemistry

PLATES

<u>Plate</u>	<u>Scale</u>	<u>Title</u>
MAC 408A	1:1,000	Geochemical Profiles, DDH MAC 37.
MAC 408B	1:1,000	Geochemical Profiles, DDH MAC 37.
MAC 409	1:1,000	5200E Cross Section, DDH MAC 37.
MAC 410	1:25,000	Geometric Skeleton.
MAC 411	1:25,000	Interpreted Structural Framework
MAC 412	1:25,000	Interpretive Geology

FIGURES

1. Mackintosh District - Tenure Summary.
2. Mt. Charter Area - Summary Geology and Magnetic Linears.

1.0 SUMMARY

Work on EL 106/87 continued to focus on delineation of the Cambrian synvolcanic fault network of the Que-Hellyer Volcanic (QVH) basin. Areas of prospective stratigraphy, at depth, adjacent to synvolcanic fault intersections, are seen as conceptual targets for Volcanic Hosted Massive Sulphides.

Delineation of structures was largely based upon interpretation of the close spaced aeromagnetic survey flown in March, 1993.

Two targets generated from this work were drill tested. At South Mount Charter and Barite Creek two holes were completed for a total of 1649.6m.

An infill gravity survey of EL 106/87 is in progress.

2.0 INTRODUCTION

The Lake Mackintosh Exploration Licence (EL 106/87) was granted to Aberfoyle Resources Limited on 5 February, 1988, subject to the Hellyer Mine Agreement Ratification Act 1987. The licence comprised 135 sq km previously covered by EL's 2/70 (Mackintosh) and 15/73 (Hatfield) and encloses the 20.2 km² of CML's 68M/84 and 103M/87 (encompassing the Que River and Hellyer mines and facilities).

Under the terms of this Act the licence was issued for ten years with partial relinquishments required on the second and fifth anniversaries. The first partial relinquishment was effected in February, 1990 when the licence was reduced from 135 to 95 sq km. The second partial relinquishment from 95 to 54 sq km was effected on 5 February, 1992. Current tenure is shown on Fig. 1.

This report summarises exploration completed in the Mackintosh district on EL 106/87 for the period 1 April, 1993 to 1 February, 1994.

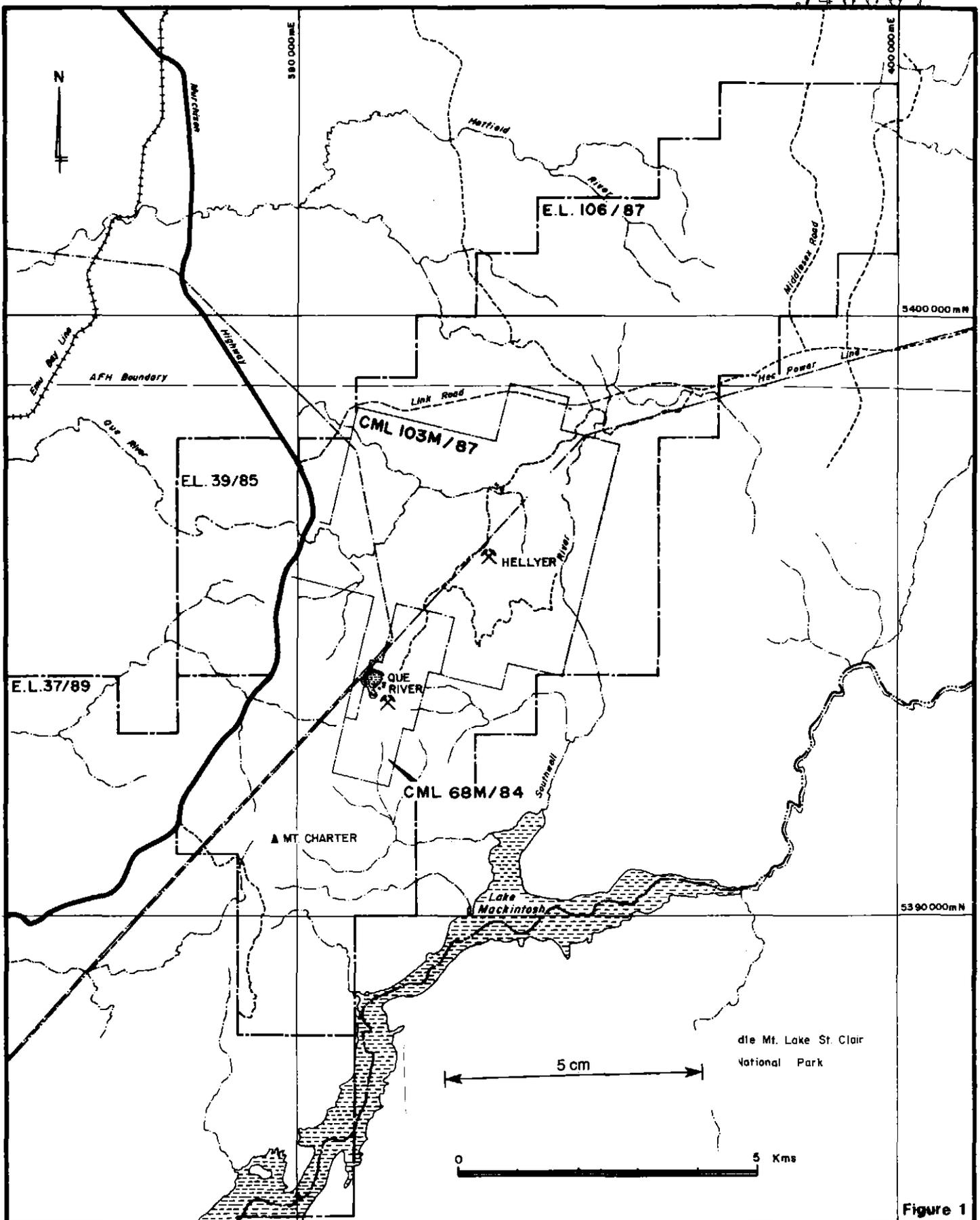


Figure 1

Aberfoyle Resources Limited

EXPLORATION DIVISION

NORTH WEST TASMANIA MACKINTOSH DISTRICT TENURE SUMMARY

REVISIONS			
Init.	Date	Init.	Date
RJE	May 90		
JMS	Feb 93		
MAR	6/93		
RdB	1/94		

Compiled : A McN

Drawn :

Traced :

Checked :

Location Code : K55/6/44

Scale : As shown

Date : May, 1990

Plate No. : MAC 181

1-5

3.0 AEROMAGNETIC AND RADIOMETRIC SURVEY

3.1 Introduction

Prior to March, 1993 the magnetic data available for EL 106/87 was a compilation of several generations of ground surveys that could not be integrated without producing severe striping in a N-S and E-W direction. These prominent features masked any subtle structural trends that may otherwise be evident in the data.

Although the QVH are relatively magnetically quiet, the ground data did show some prominent geological features. Sufficient magnetic susceptibility contrast appeared to exist for geological features to be clearly defined if a high quality survey were to be undertaken. The proposed new survey would be used to confirm geological trends and more accurately locate structures inferred from geological and geochemical data.

During March, 1993 Geoterrex Pty. Ltd. conducted a 1087 line km helicopter borne aeromagnetic and radiometric survey over EL 106/87. Survey specifications and results were provided with the last annual report (Richardson, 1993). However an interpretation of results was incomplete at that time and is presented below.

3.2 Aeromagnetic Interpretation

3.2.1 Introduction

Interpretation of the Mackintosh aeromagnetic survey was based on generation of ER Mapper algorithms and production of images at several scales. The regional setting of the QHV was examined from Mines Department regional magnetic and gravity data at 1:25,000 and 1:100,000 scale.

Images of the detailed Mackintosh survey were produced at 1:25,000 and 1:10,000. Detailed interpretation was carried out on 1:10,000 scale images. Several filters were used but most detail was extracted from real time shades at three different sun angles (N, SW, SE) chosen to best enhance the fault network inferred from geological and geochemical datasets.

Magnetic discontinuities and sources from each image were recorded on a single overlay to build up a geometric skeleton. This framework is presented on Plate MAC 410.

3.2.2 Results

Most sources and breaks are shallow features reflected in the high frequency part of the data. Therefore, spatially persistent breaks that are inferred to reflect faults are probably Devonian or younger in age.

However, many nests of young, shallow aeromagnetic breaks mark major faults with geological evidence that they must have been active during the Cambrian. Structures such as the Que Fault, Barite Creek and Murchison Highway Structures show evidence in the form of rapid stratigraphic thickness and facies changes or localisation of hydrothermal alteration, indicating they were active during the Cambrian.

Similarly, shallow aeromagnetic breaks inferred within the Tertiary Basalt, north of Hellyer, show similar orientations and spacing to known Cambrian structures within the QHV. Therefore, there is reasonable confidence that these structures somehow reflect the underlying Cambrian basement structure.

It is inferred that the associations are due to reactivation of basement structures by later compressional or extensional events eg. during the Devonian or Tertiary. Their effect in the QHV would be to offset subtle magnetic units. During extension that accompanied Tertiary volcanism they may have again been active, controlling subsidence and deposition of gravels or lava flows. They may also control topography by differential weathering effects resulting in variable magnetic destruction.

A network of Cambrian faults has been compiled from the geometric skeleton and is presented on Plate MAC 411. For reference a geological map at the same scale is presented as Plate MAC 412.

There is a general fall in magnetic intensity from south to north within the Mackintosh Basin. This is interpreted to reflect progressive deepening of magnetic Central Volcanic Complex basement to the north. The regional gradient is terminated on a major NW trending structure through Hellyer that coincides approximately with a major regional gravity discontinuity of the same orientation (Hellyer Megastructure).

Poor resolution of the regional gravity dataset results in imprecise location. At the scale of interpretation this feature is shown on Plate MAC 411 occurring somewhere between the Hellyer Megastructure South and Hellyer Megastructure North. The break in magnetic gradient corresponds to the Hellyer Megastructure South.

This Cambrian transfer is clearly a first order control on localisation of the Hellyer orebody which occurs at its intersection with the Que-Hellyer Structure.

Hydrothermal alteration is associated with subtle magnetite depletion. This can be seen on some profiles across the Que River alteration zone where a subtle magnetic trough is present. It is also evident in the Tailings Dam area where magnetic dacite underlying the Upper Basalt becomes non magnetic as it passes east into the Hellyer anticline and Switchback syncline near the D-Zone alteration.

The Cambrian structural framework deduced from the aeromagnetics and shown on Plate MAC 411 is not a simple network of NE trending normal faults linked by NW trending transfer faults as originally proposed by Windh and Etheridge (1992). Although such a network forms the basic framework there are numerous inferred Cambrian structures whose orientation is inconsistent with a simple strike slip extensional basin, as originally proposed. It is inferred that the orientation of many of these faults may be controlled by pre-existing structures within the underlying Pre-Cambrian basement.

3.3 Radiometric Data

Total count, U, Th and K radiometric data have proved to be of little use. Tertiary basalt, Cambrian dolerite and cultural aspects such as roads are the most prominent features and are best seen in the total count data.

4.0 SOUTH QUE RIVER AREA

4.1 Introduction

The South Que River area lies between Que River Mine and Mount Charter. Diamond drilling on the southern-most section at Que River Mine (6700N) failed to close off the Que River alteration zone. This zone was interpreted on the basis of IP data and mapping to daylight around 6200N and plunge to the north. However, lineament studies and a review of the geophysical data suggested it to be equally plausible that the alteration zone plunged south.

A diamond drill hole, MAC 28, was proposed to test for the southern extension of this alteration zone. The geology and geochemistry of MAC 28 were discussed in McNeil, 1991. Footwall style alteration was intersected and a downhole EM survey (DHEM) indicated the presence of a conductor centred around 650m downhole.

MAC 29 and MAC 30 were subsequently drilled at the inferred conductor but failed to intersect the source. A DHEM survey of MAC 30 (MAC 29 could not be surveyed) again detected a conductive response.

4.2 Geophysics

During this reporting period MAC 28 was resurveyed with the UTEM system whose downhole probe negates the effect of a ferrite core. Survey results are contained in Appendix I. No conductive response was obtained. It appears that a previously unrecognised and unknown instrumental effect related to downhole probes with ferrite cores may be responsible for the anomalous responses in MAC 28 and MAC 30. Investigations into this phenomenon are continuing.

5.0 MOUNT CHARTER AREA

5.1 Introduction

DDH MAC 33 was drilled to test the base of the Mixed Sequence near the junction of the Murchison Highway Structure and Barite Creek Structure. Results from this hole were described in the last annual report. At that time a DHEM survey of MAC 33 was incomplete. Results are presented below.

5.2 Geophysics

A two loop downhole UTEM survey was conducted in MAC 33. Loop locations and survey results are presented in Appendix II.

No conductors attributable to massive sulphides were detected.

6.0 MURCHISON HIGHWAY ZONE

6.1 Introduction

DDH MAC 35 was drilled to test the Mixed Sequence in the core of a small syncline in the area of intersection of four inferred Cambrian structures. Results from this hole were discussed in the last annual report. However, as the planned DHEM survey of MAC 35 was incomplete at that time results from this survey are presented below.

6.2 Geophysics

A four loop downhole UTEM survey was undertaken in MAC 35. Loop locations and survey results are attached as Appendix III.

No conductors attributable to massive sulphide accumulations were detected.

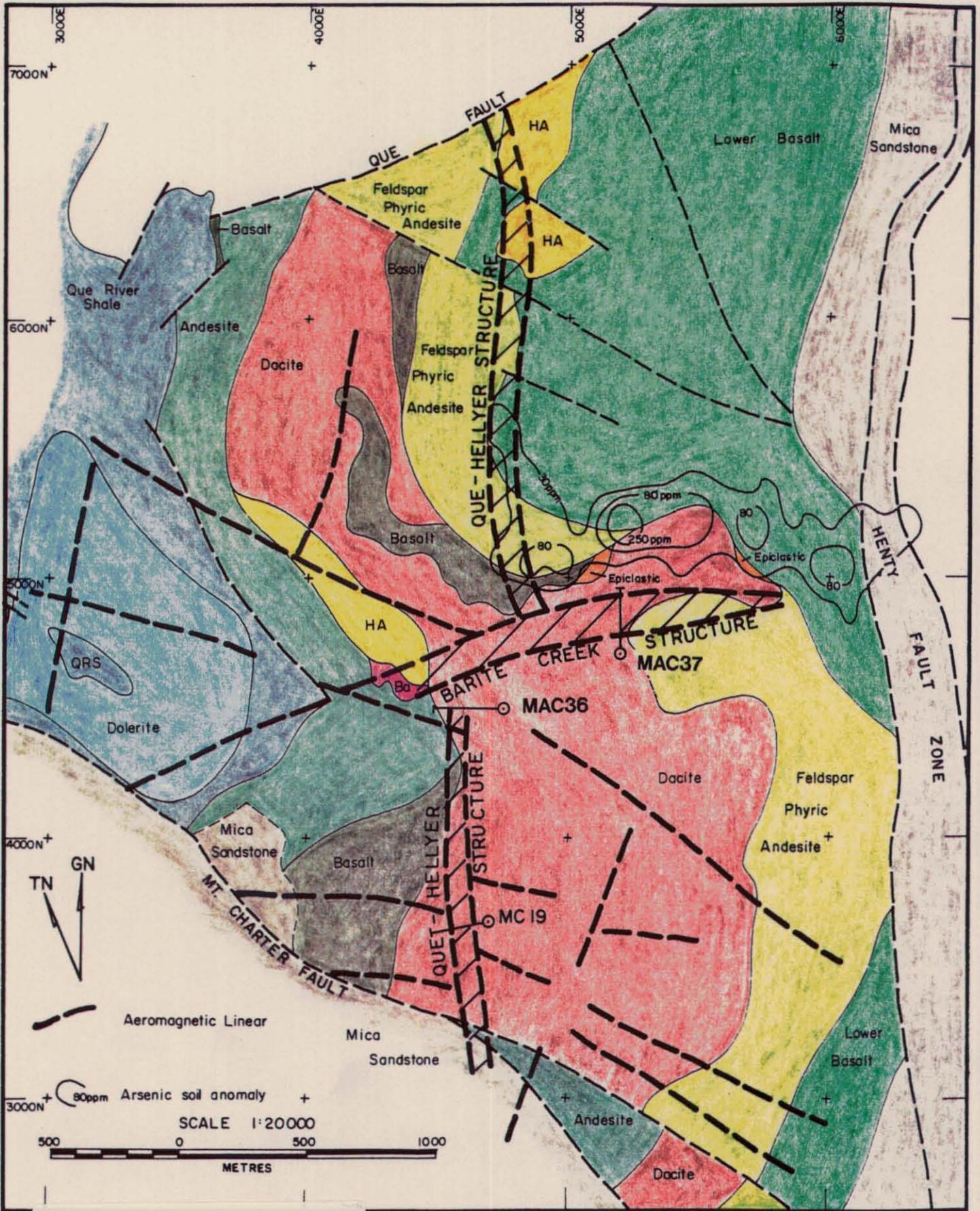
7.0 MOUNT CHARTER AREA

7.1 Introduction

Interpretation of aeromagnetic data from the 1993 Mackintosh survey, indicated the presence of several aeromagnetic breaks south of the Que Fault. Most are interpreted to reflect faults. Some are consistent with previously recognised features inferred from surface and/or drill hole data to be Cambrian syn-volcanic structures. In addition several previously unrecognised structures were evident.

One of these is a corridor of low magnetic intensity, extending in two sections, south from the Que Fault to the Mount Charter Fault, Fig. 2. This corridor is coincident with the southern part of the Que River alteration zone and is inferred to reflect magnetite destruction due to hydrothermal alteration. It represents the southern extension of the Que-Hellyer mineralised corridor and is referred to as the Que-Hellyer Structure. A 300 m dextral offset of the structure is evident where the Barite Creek Structure is intersected, Fig. 2.

Both the Que River and Hellyer orebodies occur on the northern portion of this structure. Therefore the sparsely drilled inferred southern extension represented an attractive target. Between the Que Fault and Barite Creek Structure the Que-Hellyer Structure is hosted by footwall andesites and basalts. However, between the Barite Creek Structure and Mount Charter Fault a large area of dacite is evident. Potential existed for this dacite to be a Mixed Sequence correlate allowing an ore horizon to be preserved at depth.



5 cm

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Figure #2

REVISIONS			
Init.	Date	Init.	Date

NORTH WEST TASMANIA
EL 106/87 MACKINTOSH MT CHARTER AREA
SUMMARY GEOLOGY
AND MAGNETIC LINEARS

Compiled :	SR
Drawn :	SR
Traced :	NB
Checked :	SR
Plate No. :	MAC 376

Location Code :

Scale : 1:20 000

Date : MAY 1993

1-0-1

An 800m hole was proposed to test the base of dacites overlying the Que-Hellyer Structure on section 4500N. This target is on the southern side of the Barite Creek Structure, just SE of Mount Charter and in effect along strike from the Mount Charter alteration zone.

7.2 DDH MAC 36

7.2.1 Introduction

DDH MAC 36 was collared on 5-6-93 and completed on 16-8-93 at 814.4m. Collar location is at AMG 5391041.2 N, 390059.6 E.

7.2.2 Geology

At present MAC 36 has not been logged in detail. Therefore, a detailed log and cross-section cannot be included with this report. Both will be included in the next annual report. A summary log is as follows:

0	-	96.2m	Dacite lava.
96.2	-	100.0m	Basalt lava.
100.0	-	112.5m	Dacite lava with local polymict lapilli epiclastic.
112.5	-	761.5m	Dacite lava with minor lapilli and ash volcanoclastic.
761.5	-	809m	Interbedded ash volcanoclastic, andesitic lapilli volcanoclastic and micaceous greywacke.
809	-	814.4m	Micaceous greywacke.

7.2.3 Geochemistry

As MAC 36 is not geologically logged at the time of writing no samples have been submitted for assay. Core grinding will be undertaken when geological logging is complete and assays will be reported in the next annual report.

7.2.4 Geophysics

At the time of writing the planned DHEM survey of MAC36 is incomplete. Results of this survey will be presented in the next annual report.

8.0 BARITE CREEK AREA

8.1 Introduction

The 1993 aeromagnetic survey confirmed the presence of a major NE trending structure passing through Mount Charter. Known as the Barite Creek Structure it was originally recognised from:

- 1) Rapid thickness change of Lower Basalt across the structure. Thicker to the north.
- 2) Apparently cross cutting nature of dacite around 5000N 5000E, aligned along the inferred structure.

and

- 3) A linear apparent in lithology normalised soil geochemistry.

The inferred Cambrian fault network for the Que-Hellyer basin is dominated by NE trending normal faults linked by NW trending transfer faults. The significance of the ENE trending Barite Creek Structure is therefore uncertain.

One kilometre NE of Mount Charter an elongate apparently synformal "wedge" of dacite is mapped overlying a unit of polymict epiclastic a few tens of metres thick, Fig. 2. The keel of the "wedge" parallels and approximately overlies the Barite Creek Structure. An arsenic soil anomaly of up to 250 ppm is coincident with the epiclastic horizon. All other arsenic anomalies on the Mackintosh licence, with this tenor, correspond to known hydrothermal alteration.

It was proposed to test the core of the "wedge" on section 5200E. Target RL was unknown as no dip information was available so it was uncertain that surface EM had not sterilised the target horizon. However, a steep dip on the northern edge of the dacite was inferred from its mapped form across steep topography.

8.2 DDH MAC 37

8.2.1 Introduction

DDH MAC 37 was collared on 10-6-93 and completed on 13-8-93 at 835.2m. Collar location is at AMG 5391082.1 N, 390540.9 E.

8.2.2 Geology

A detailed log is attached as Appendix IV, whilst a cross section is included as Plate MAC 409. A summary log is as follows:

0	-	235.9m	Feldspar phyric dacite lava.
235.9	-	277.5m	Feldspar phyric dacite lava and lapilli volcaniclastic.
277.5	-	281.6m	Polymict epiclastic.
281.6	-	312.3m	Dacite lapilli volcaniclastic and lava.
312.3	-	333.0m	Polymict epiclastic with interbedded dacite lava.
333.0	-	371.7m	Dacite lava and lapilli volcaniclastic.
371.7	-	376.8m	Polymict epiclastic with interbedded dacite lava.
376.8	-	389.4m	Feldspar phyric dacite lava.
389.4	-	413.0m	Polymict lapilli epiclastic.
413.0	-	466.9m	Aphyric dacite intrusive.

466.9	-	479.m	Feldspar phyric dacite lava and lapilli volcaniclastic.
479.2	-	494.m	Aphyric dacite intrusive.
494.3	-	606.0m	Feldspar phyric dacite lava.
606.0	-	631.6m	Polymict lapilli epiclastic with dacite lava interbeds.
631.6	-	646.0m	Feldspar phyric dacite lava and lapilli volcaniclastic.
646.0	-	670.m	Andesite lava and lapilli volcaniclastic.
670.2	-	710.9m	Andesite lava and interbedded polymict lapilli epiclastic.
710.9	-	758.9m	Basalt lapilli volcaniclastic.
758.9	-	770.7m	Polymict lapilli epiclastic.
770.7	-	835.m	Basalt lava and breccia epiclastic.

The bulk of MAC 37 has intersected a thick sequence of feldspar phyric dacite and silicic andesite lava and lesser volcaniclastic. These rocks have been intersected in holes MAC 33, 35 and 36 where they rest conformably on mica sandstone basement. They indicate a felsic volcanic centre has dominated the SW corner of the QHV basin up until Upper Basalt time.

However, MAC 37 differs from other holes that have intersected this sequence in that intervals of polymict dacitic epiclastic, up to several metres thick, are interspersed throughout the lavas suggesting a topographic low in this area.

Below 710.9m MAC 37 has penetrated a sequence of amygdaloidal basalts correlated with the Lower Basalt Sequence that outcrops 600m vertically above. The boundary with the dacites is not clear cut as an apparently transitional sequence of andesites is present below 631.6m.

Hydrothermal alteration is generally weak pervasive silica + chlorite but locally well developed zones of footwall style pervasive silica + sericite \pm pyrite are present throughout the dacitic sequence. Strongest alteration is of the area 270-300m where lithologies are identical to those in the footwall alteration zones beneath Que River and Hellyer. Mineralisation is only weakly developed being present as 1-5% pyrite disseminations locally increasing to 10-15% as disseminations and veins in strongly altered rocks. Below about 625m trace galena, sphalerite and chalcopryrite are present in carbonate + silica \pm epidote \pm pyrite veins.

No major fault system marking the Barite Creek Structure was found. However, four features are consistent with a major Cambrian structure passing through the MAC 37 area:

- 1) Hydrothermal alteration of dacite lava and volcanoclastic may indicate venting of fluids along a Cambrian fault system.
- 2) Similarly aphyric dacite intrusives outcropping in the MAC 37 access track and intersected in MAC 37 may have been intruded along the Barite Creek Structure.
- 3) Epiclastics in this area may reflect ponding against a fault scarp.

- 4) A N-S cross section through MAC 37 indicates the southern edge of the Lower Basalt to be a sub-vertical contact separating a major basaltic centre to the north from a felsic centre to the south and as such may represent a Cambrian transfer fault.

8.2.3 Geochemistry

Ninety one core grind samples covering the length of MAC 37 were submitted for assay. Sample intervals up to 22m were chosen to coincide with lithological boundaries. Samples were analysed for whole rock and Zr, Cr, Ba, As, S, Cu, Pb, Zn, Ag and Au. Results are included as Plates MAC 408A and B and Appendix V.

Cu, Pb and Zn values are uniformly low throughout the dacitic sequence being generally less than 80, 50 and 100 ppm respectively. Below 631.6m the sequence appears more andesitic and there is a slight increase in base metal content with peak values of 174 ppm Cu, 85 ppm Pb and 2161 ppm Zn, from separate samples. These values reflect the presence of weak base metal veining.

Silver values are uniformly below detection of 2 ppm except for one suspicious assay of 11 ppm near the top of the hole. Gold assays whilst of very low tenor are noteworthy in that they are commonly above detection of 0.008 ppm throughout the dacitic sequence. Peak value is 0.13 ppm over 15m below 150m. Although there is no correlation with gold, arsenic is also elevated (up to 84 ppm) within the dacitic sequence, when compared to the deeper andesites and basalts.

Whole rock and trace element data tend to split the sequence intersected by MAC 37 broadly into two parts; a dacitic-silicic andesite sequence above 631.6m and an andesitic-basaltic sequence below that point. This is especially evident from the immobile element ratios Ti/Zr and P_2O_5/TiO_2 . In contrast some elements show gradual change over the length of the hole suggesting an evolving pile uphole. For example, Zr increases whilst MgO decreases gradually up hole.

There does not appear to be a significant relationship between alteration index ($100 * (K_2O + MgO) / (K_2O + MgO + Na_2O + CaO)$) and visible alteration. However, large parts of the dacitic sequence show moderate Na depletion compared to the same rocks in holes such as MAC 33. This confirms the MAC 37 area is the site of moderate hydrothermal activity, probably focussed along the Barite Creek Structure.

8.2.4 Geophysics

At the time of writing the planned DHEM survey of MAC 37 is incomplete. Results of this survey will be presented in the next annual report.

9.0 GRAVITY SURVEY

Until recently existing gravity data over EL 106/87 was broad spaced, except for detailed surveys over the Que River and Hellyer ore bodies. This coverage only reflects regional features. To potentially observe variations due to synvolcanic faults 530 infill stations have been read. This data will be used in conjunction with magnetics and a 2-D modelling package to refine cross sections interpreted through the Que-Hellyer Volcanic basin.

Levelling of stations by Aberfoyle personnel is still in progress. Results from this survey will be presented in the next annual report.

10.0 CONCLUSIONS

A network of synvolcanic faults within the Que-Hellyer Volcanic basin is inferred from geological, geochemical and geophysical data. Deep drill targets are indicated where prospective stratigraphy occurs adjacent to these structures and in particular at their intersection, below surface EM penetration.

Drill testing of targets to date has not intersected mineralisation but continues to provide evidence of synvolcanic faults.

Refinement of the Que-Hellyer Volcanic basin "model" will continue.

11.0 REFERENCES

- McNeill, A. W., 1991. Exploration Licence 106/87. Progress Report for the Period May 1990 to April 1991. Aberfoyle Resources Ltd. Unpub. Report.
- Richardson, S.M., 1993. Exploration Licence 106/87. Progress Report for the Period April 1992 to April 1993. Aberfoyle Resources Ltd. Unpub. Report.
- Windh, J., & Etheridge, M., 1992. Structural Setting of the Mackintosh Block and its Mineralisation. Etheridge and Henley - Geoscience Consultants Unpub. Report.

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APPENDIX I

ABERFOYLE

MEMORANDUM

Date	3 February 1994	Ref	JS:AAI
To	Steve Richardson	From	Jovan Silic
At	Burnie	At	Hawthorn
Copies to		Keep	

Subject DHEM UTEM Data

(1) MAC28

The UTEM system was used to check the results obtained by the CRONE multicomponent DHEM system and to test the hypothesis that the "anomalous" responses noted in the drillhole using ferrite core probes, was due to a previously unrecognised ferrite core effect which was not related to the already known self response.

The CRONE system using a ferrite based probe to measure the alonghole component and air cored probes to measure the other two orthogonal components, reproduced the alonghole component "anomaly" noted by other systems which also used ferrite based probes, however, no effect which could be attributed to a confined conductor near the drillhole was noted in the other two orthogonal components which were measured with air-core probes. It was then reasoned that alonghole component "anomaly" may be due to an instrumental artefact produced by a previously unrecognised ferrite core effect.

To test this hypothesis, the UTEM system, which because of the mulling of the magnetic field in the sensing coil, should not be effected by the ferrite core effects, was then used to obtain data in MAC28.

Data sets from Loop 1 and Loop 3 (Figure 1 and 2) indeed supports previously stated assertion, as no effects from a confined source are evident in the data set. Only 'background' responses consistent with the expected EM fields were observed.

It is now concluded that previously recognised "anomalous" response in MAC28 using the Zonge SIROTEM and CRONE systems with a ferrite core sensor, is an instrumental artefact most likely produced by the ferrite core sensors. The mechanism of this effect, however, has not been as yet recognised.

(2) MAC31

Data from a two loop survey (Figure 3 and 4) shows no effects which can be attributed to a confined conductive source, hosting conductive sulphides.

(3) MAC33

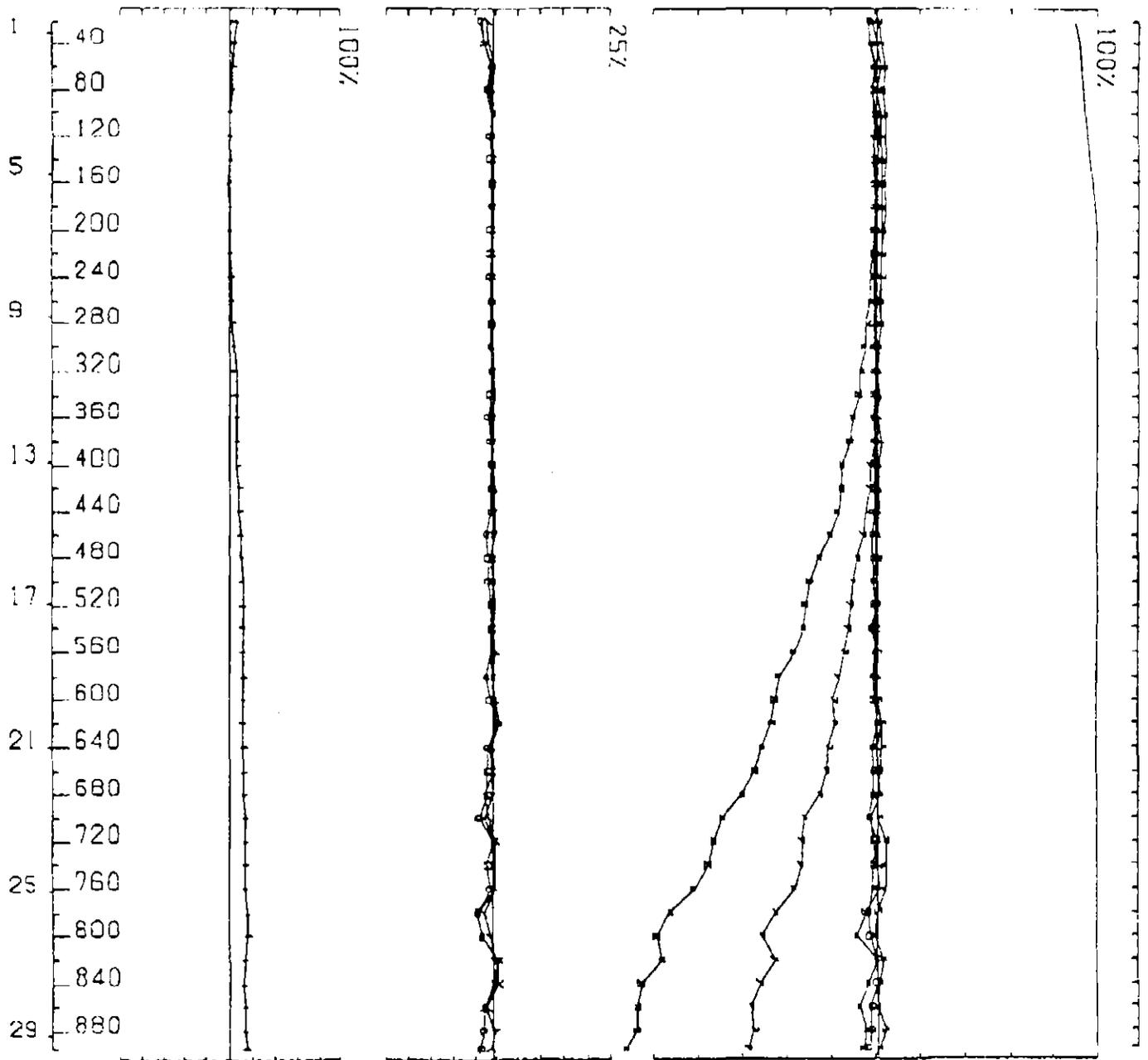
This hole was surveyed using two surface loops. (Figure 5 and 6). No anomalous responses, apart from an early time effect at about 160 metres down the hole is noted in the data set.

(4) MAC35

A four loop data set (Figure 7 - 10), shows no anomalous responses which could be attributed to significant conductive sulphides accumulations.

Regards

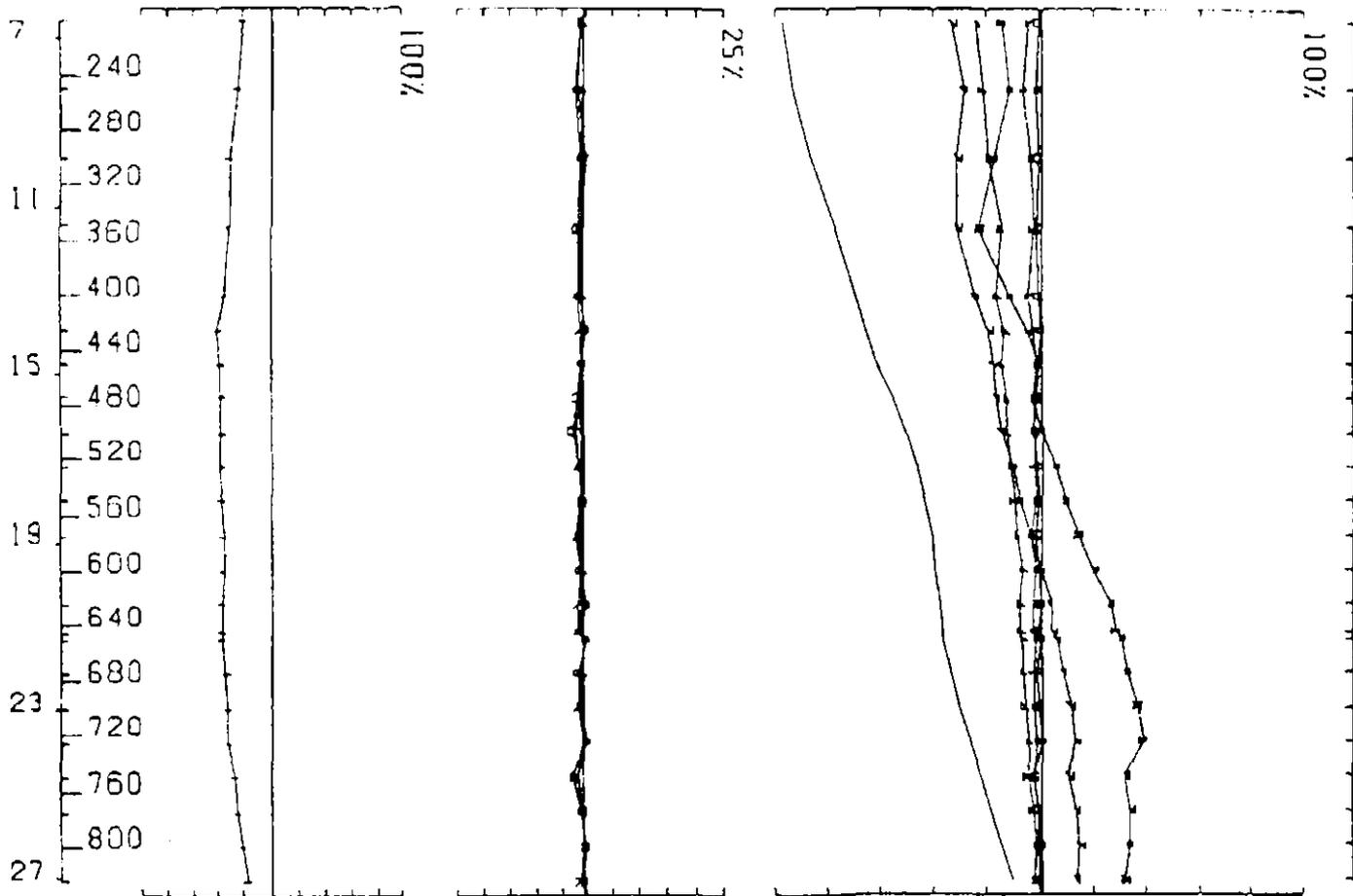
JOVAN SILIC



UTEM SURVEY AT MACKINTOSH FOR ABERFOYLE RESOURCES 14-JUN-93
 CONDUCTED BY LANONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 43.72
 LOOP NO 1 HOLE 00MA0028 AXIAL COMPONENT SECONDARY FIELD CH1 CONTIN. NORR.

940030

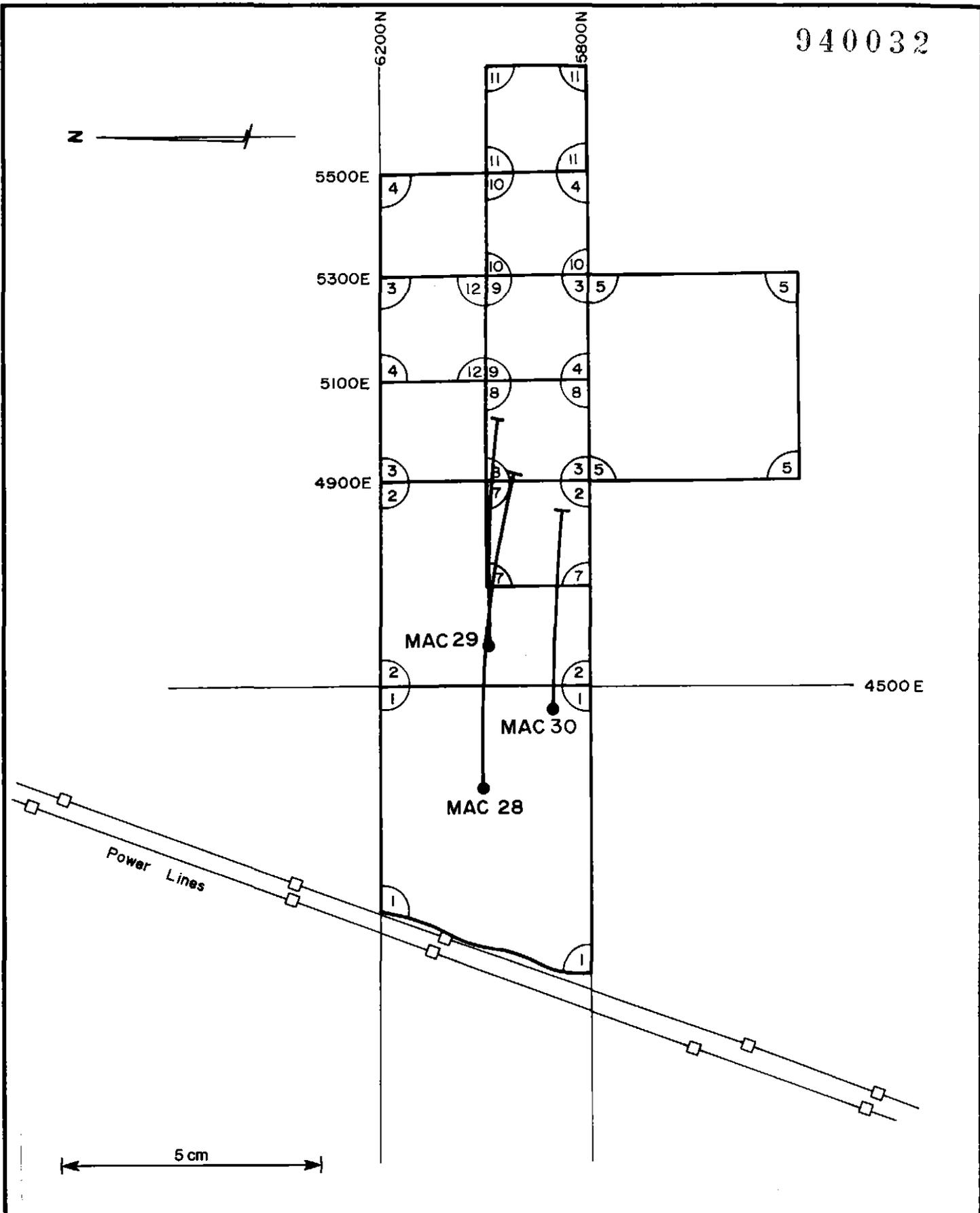
Fig 1



UTEM SURVEY AT MACKINTOSH FOR ABERFOYLE RESOURCES 14-JUN-93
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9307 BASE FREQ (HZ) 43.70
 LOOP NO 3 HOLE MAC28 AXIAL COMPONENT SECONDARY FIELD CH1 CONTIN NEAR

940031

Fig 2



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REVISIONS			
Init.	Date	Init.	Date
GLC	10/91		
MAR	6/93		

NORTH WEST TASMANIA
MACKINTOSH EL 106/87
DDH MAC 28-30 - DHEM LOOPS

Compiled :	JS
Drawn :	JS
Traced :	GLC
Checked :	JS

Location Code : K55/3

Scale : 1 : 10 000

Date : August 1991

Plate No. : MAC 334

APPENDIX II

ABERFOYLE

MEMORANDUM

Date	3 February 1994	Ref	JS:AAI
To	Steve Richardson	From	Jovan Silic
At	Burnie	At	Hawthorn
Copies to		Keep	

Subject DHEM UTEM Data

(1) MAC28

The UTEM system was used to check the results obtained by the CRONE multicomponent DHEM system and to test the hypothesis that the "anomalous" responses noted in the drillhole using ferrite core probes, was due to a previously unrecognised ferrite core effect which was not related to the already known self response.

The CRONE system using a ferrite based probe to measure the alonghole component and air cored probes to measure the other two orthogonal components, reproduced the alonghole component "anomaly" noted by other systems which also used ferrite based probes, however, no effect which could be attributed to a confined conductor near the drillhole was noted in the other two orthogonal components which were measured with air-core probes. It was then reasoned that alonghole component "anomaly" may be due to an instrumental artefact produced by a previously unrecognised ferrite core effect.

To test this hypothesis, the UTEM system, which because of the mulling of the magnetic field in the sensing coil, should not be effected by the ferrite core effects, was then used to obtain data in MAC28.

Data sets from Loop 1 and Loop 3 (Figure 1 and 2) indeed supports previously stated assertion, as no effects from a confined source are evident in the data set. Only 'background' responses consistent with the expected EM fields were observed.

It is now concluded that previously recognised "anomalous" response in MAC28 using the Zonge SIROTEM and CRONE systems with a ferrite core sensor, is an instrumental artefact most likely produced by the ferrite core sensors. The mechanism of this effect, however, has not been as yet recognised.

(2) MAC31

Data from a two loop survey (Figure 3 and 4) shows no effects which can be attributed to a confined conductive source, hosting conductive sulphides.

(3) MAC33

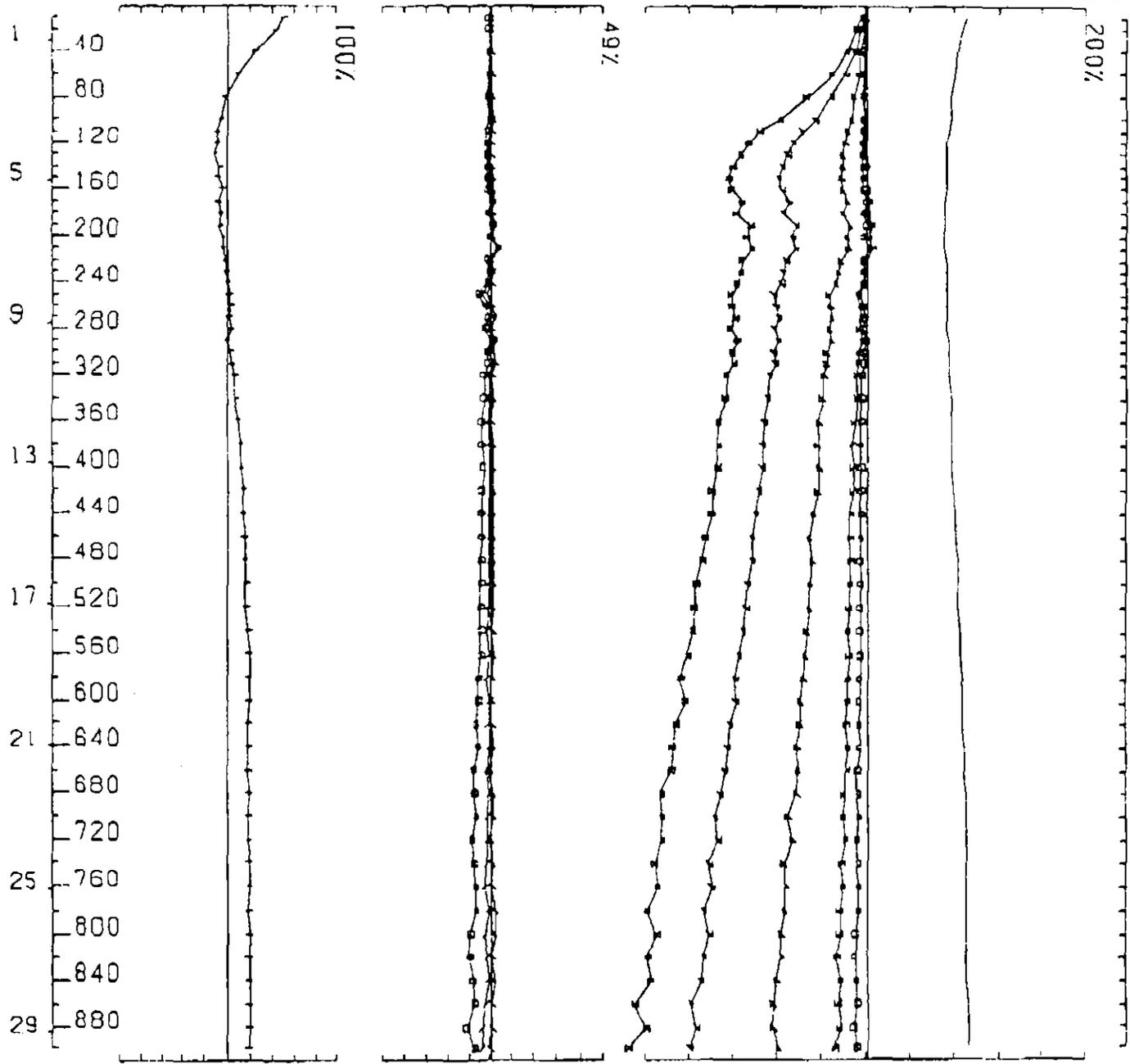
This hole was surveyed using two surface loops. (Figure 5 and 6). No anomalous responses, apart from an early time effect at about 160 metres down the hole is noted in the data set.

(4) MAC35

A four loop data set (Figure 7 - 10), shows no anomalous responses which could be attributed to significant conductive sulphides accumulations.

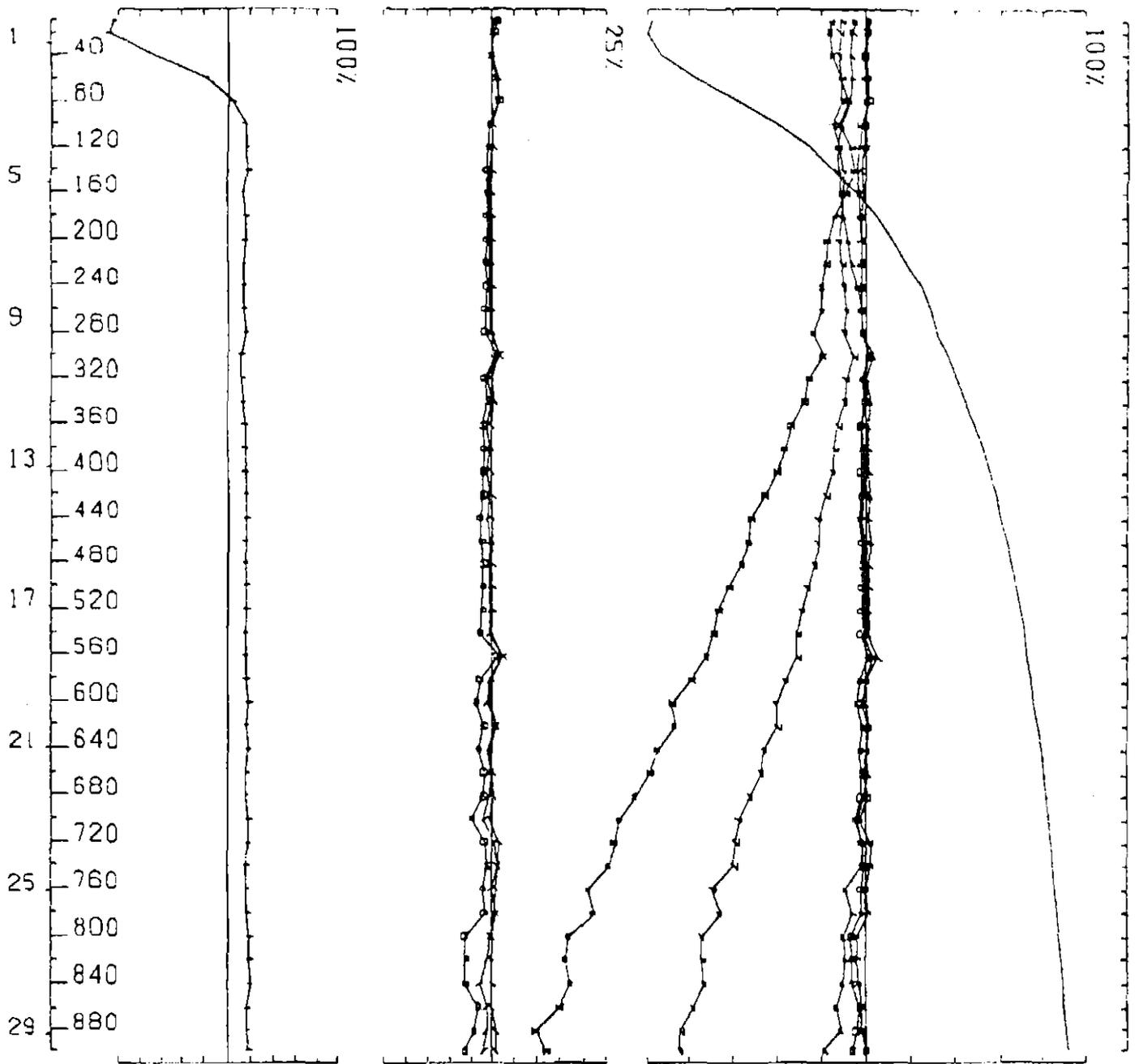
Regards

JOVAN SILIC



UTEM SURVEY AT MACKINTOSH FOR ABERFOYLE RESOURCES 14-JUN-93
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 43.72
 LOOP NO 1 HOLE 00MA0033 AXIAL COMPONENT SECONDARY FIELD CH1 CONTIN. NORM.

Fig 5

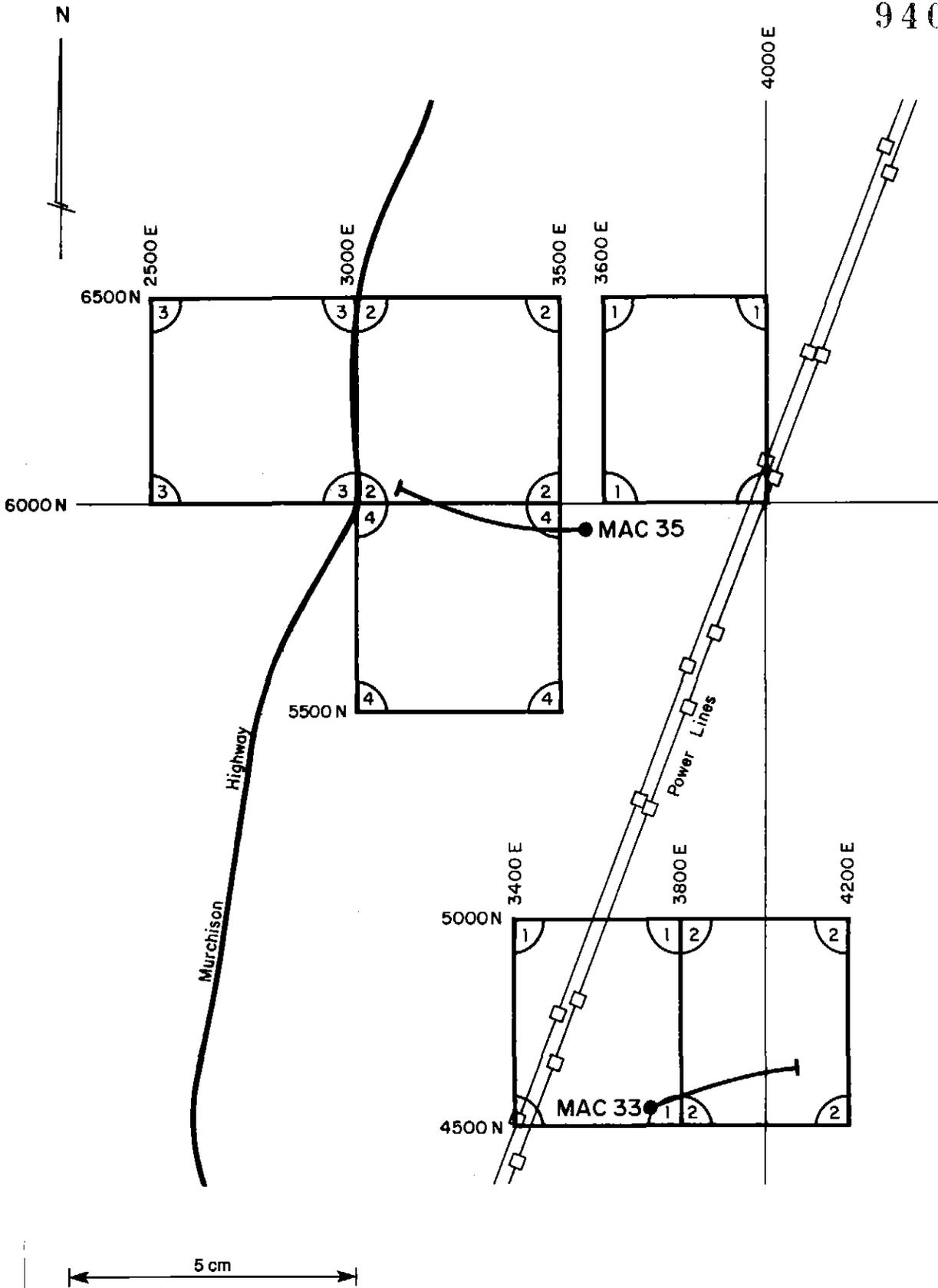


UTEM SURVEY AT MACKINTOSH FOR ABERFOYLE RESOURCES 14-JUN-03
 CONDUCTED BY LA MONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 43.72
 LOOP NO 2 HOLE D0M0033 AXIAL COMPONENT SECONDARY FIELD CH1 CONTIN. NDRM.

Fig 6

940036

940037



Aberfoyle Resources Limited

EXPLORATION DIVISION

REVISIONS			
Init.	Date	Init.	Date

NORTH WEST TASMANIA

MACKINTOSH EL 106/87

DDH MAC 33, 35 - DHEM LOOPS

Compiled :	RdeB
Drawn :	RdeB
Traced :	MAR
Checked :	RdeB

Location Code : K55/3

Scale : As Shown

Date : August 1993

Plate No. : MAC 405

APPENDIX III

ABERFOYLE

MEMORANDUM

Date	3 February 1994	Ref	JS:AAI
To	Steve Richardson	From	Jovan Silic
At	Burnie	At	Hawthorn
Copies to		Keep	

Subject DHEM UTEM Data

(1) MAC28

The UTEM system was used to check the results obtained by the CRONE multicomponent DHEM system and to test the hypothesis that the "anomalous" responses noted in the drillhole using ferrite core probes, was due to a previously unrecognised ferrite core effect which was not related to the already known self response.

The CRONE system using a ferrite based probe to measure the alonghole component and air cored probes to measure the other two orthogonal components, reproduced the alonghole component "anomaly" noted by other systems which also used ferrite based probes, however, no effect which could be attributed to a confined conductor near the drillhole was noted in the other two orthogonal components which were measured with air-core probes. It was then reasoned that alonghole component "anomaly" may be due to an instrumental artefact produced by a previously unrecognised ferrite core effect.

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(2) MAC31

Data from a two loop survey (Figure 3 and 4) shows no effects which can be attributed to a confined conductive source, hosting conductive sulphides.

(3) MAC33

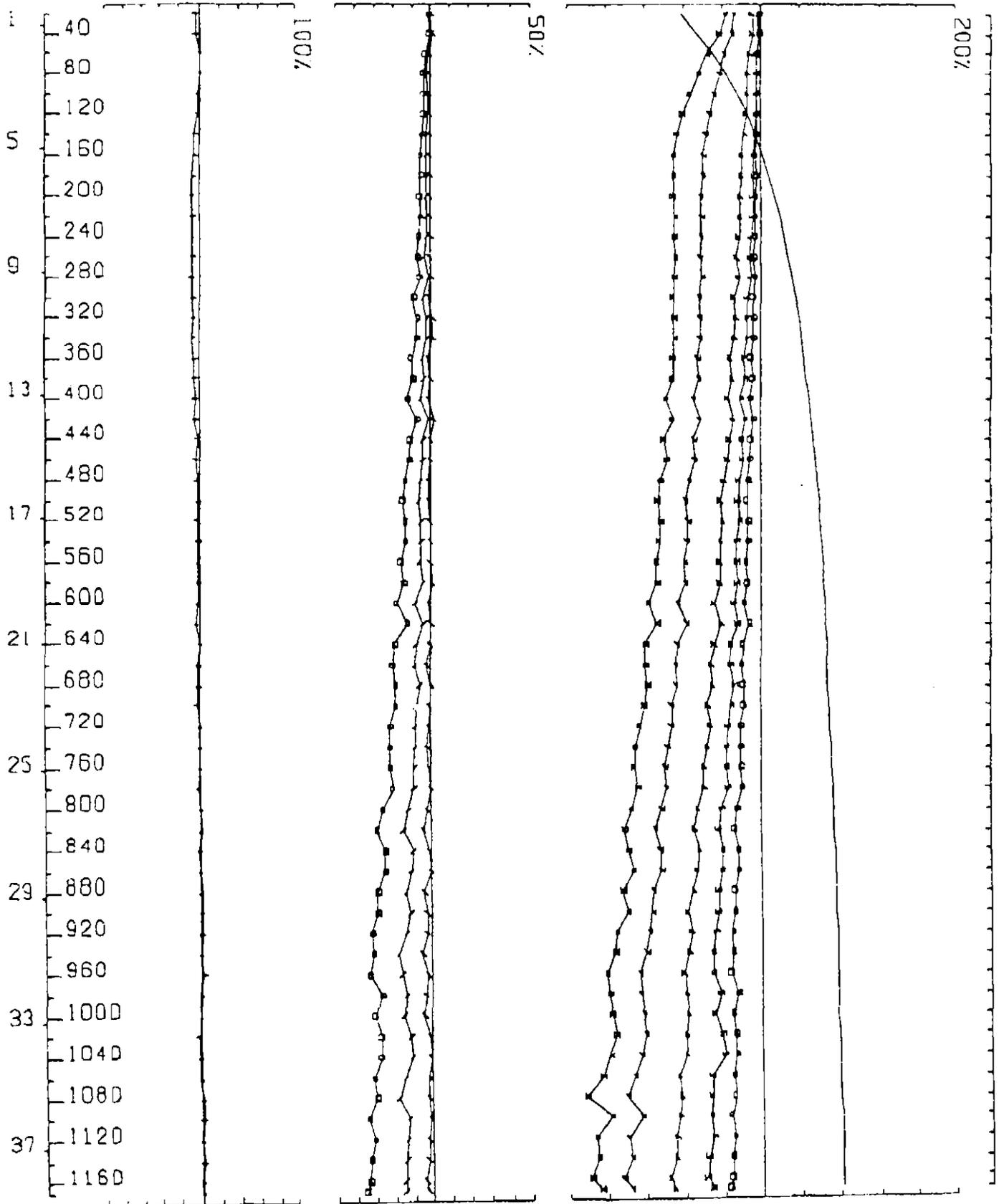
This hole was surveyed using two surface loops. (Figure 5 and 6). No anomalous responses, apart from an early time effect at about 160 metres down the hole is noted in the data set.

(4) MAC35

A four loop data set (Figure 7 - 10), shows no anomalous responses which could be attributed to significant conductive sulphides accumulations.

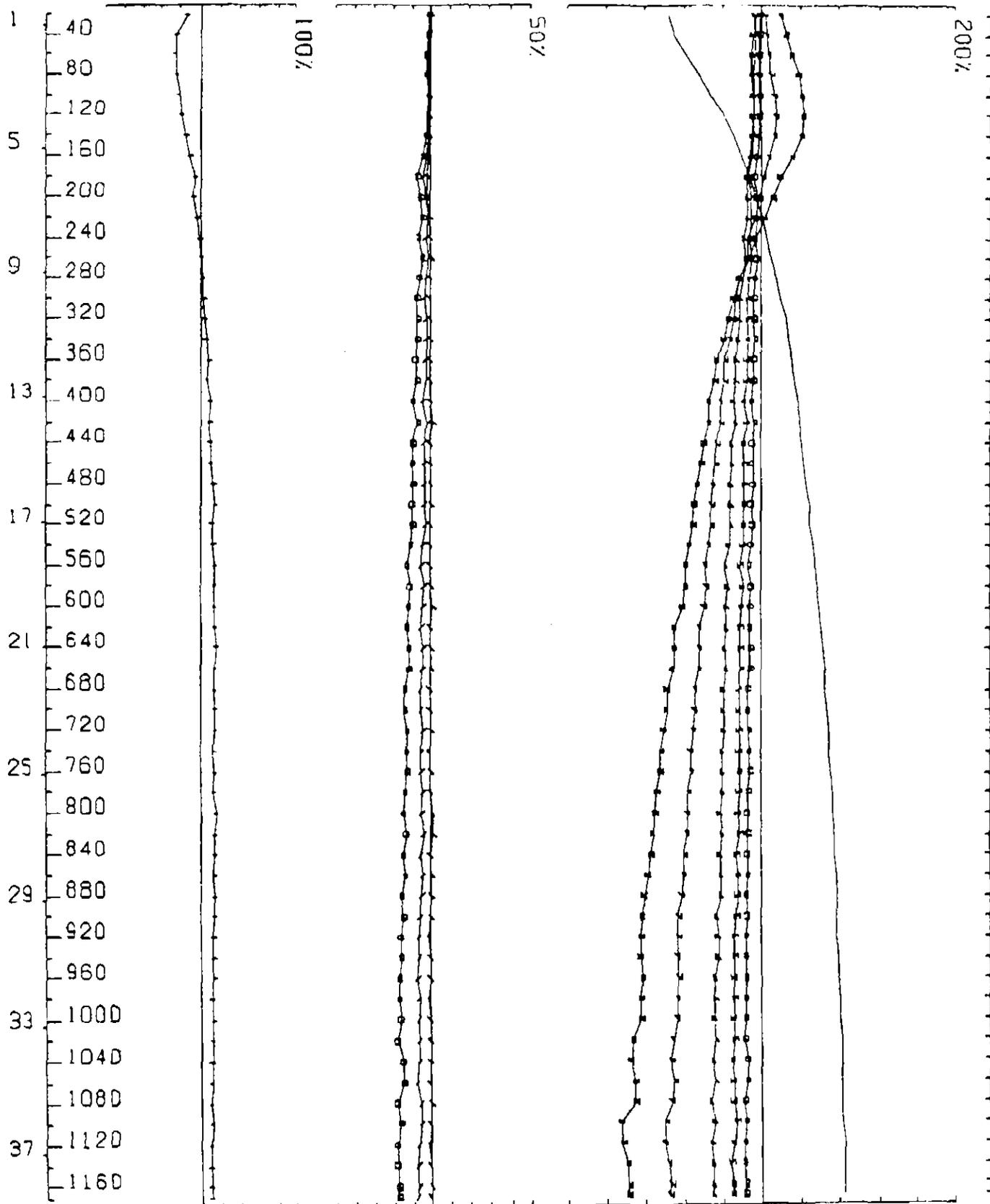
Regards


JOVAN SILIC



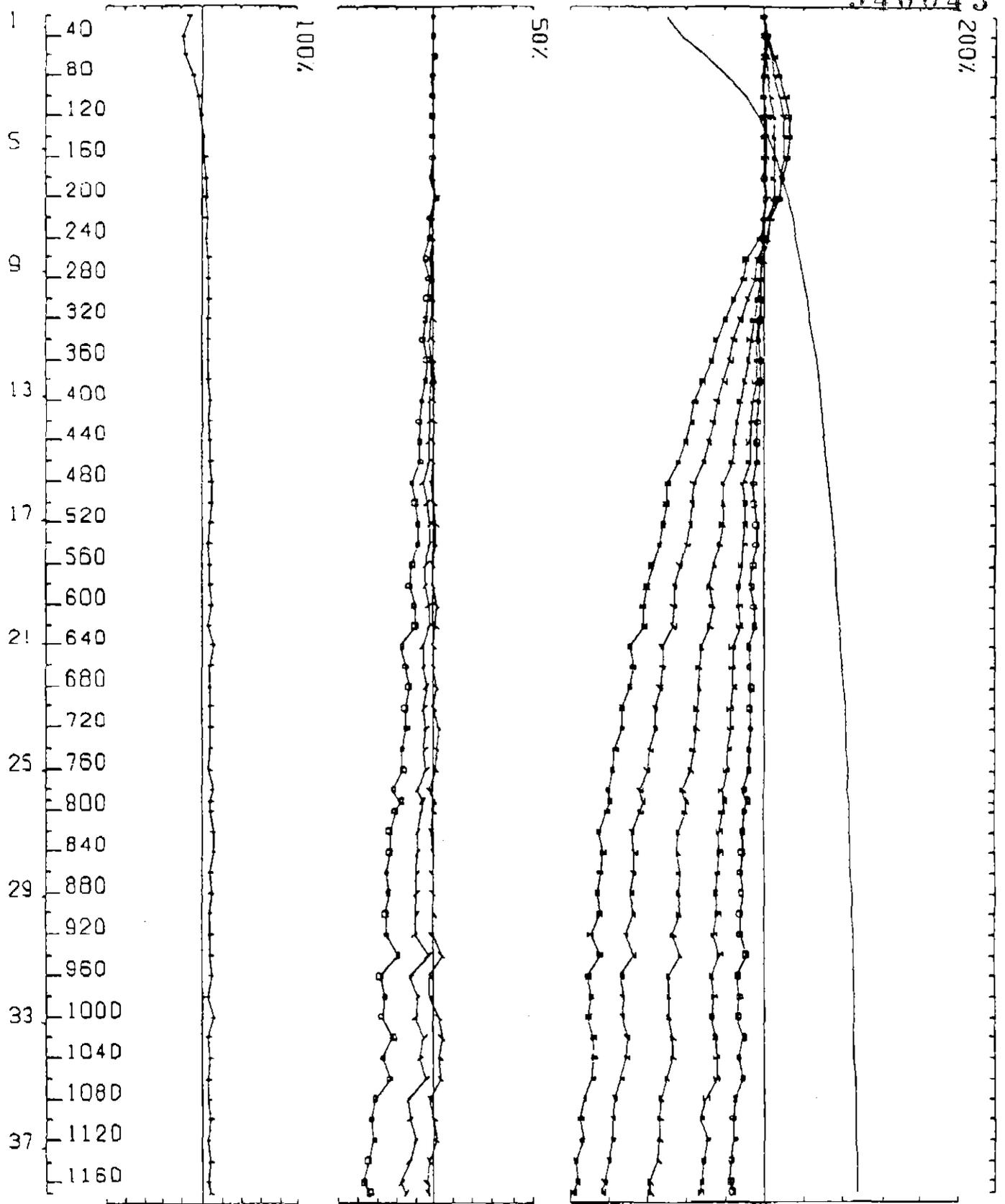
UTEM SURVEY AT MACKINTOSH FOR ABERFOYLE RESOURCES 14-JUN-83
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9909 BASE FREQ (HZ) 49.72
 LOOP NO 1 HOLE DQMA0035 AXIAL COMPONENT SECONDARY FIELD CH1 CONTIN NORM.

Fig 7



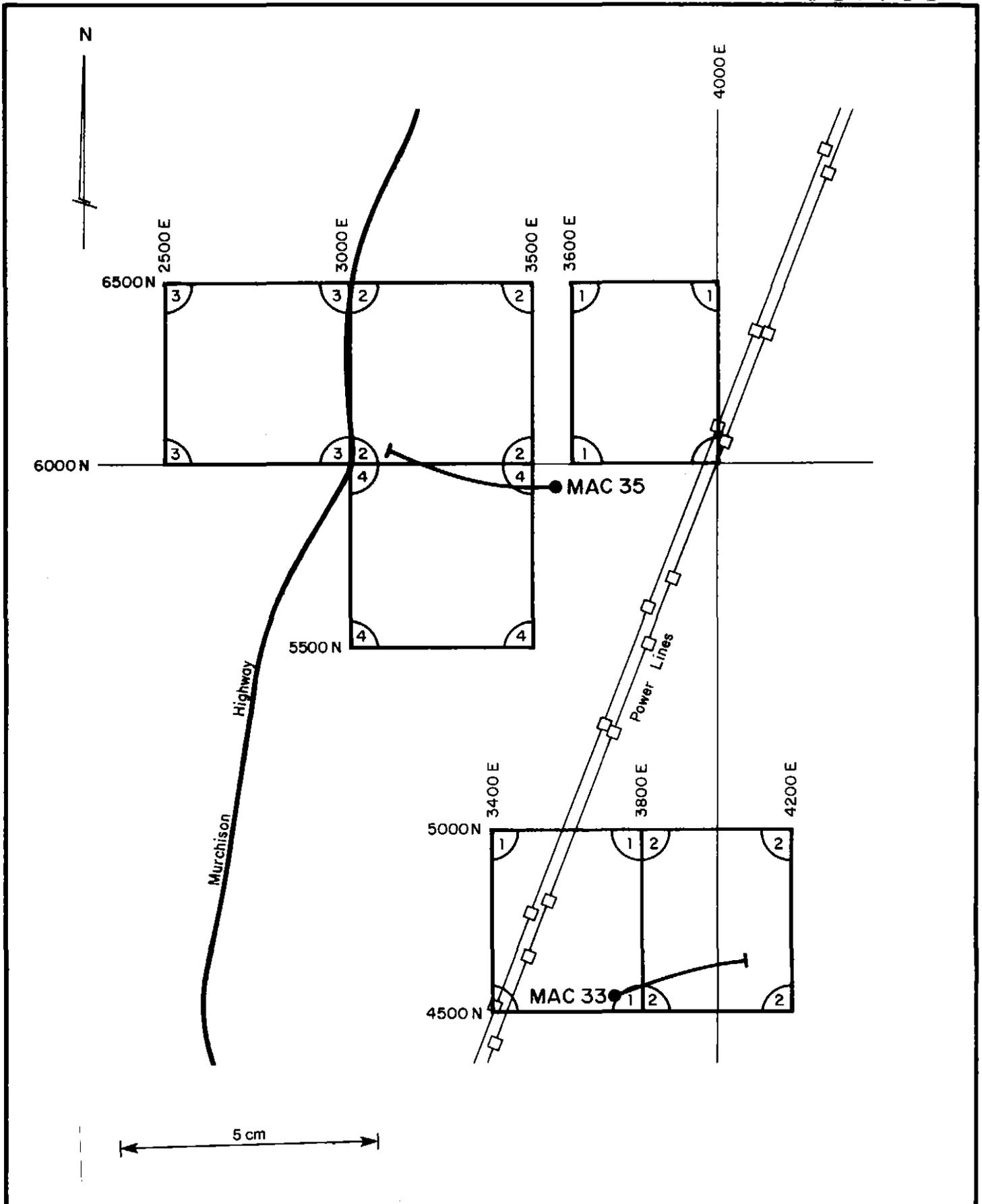
UTEM SURVEY AT MACKINTOSH FOR ABERFOYLE RESOURCES 14-JUN-93
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9309 BASE FREQ (HZ) 43.72
 LOOP NO 2 HOLE 00MA0035 AXIAL COMPONENT SECONDARY FIELD CH1 CONTIN. NDRM.

Fig 8



UTEM SURVEY AT MACKINTOSH FOR ASERFOYLE RESOURCES 14-JUN-93
 CONDUCTED BY LAMONTAGNE GEOPHYSICS LTD JOB 9909 BASE FREQ (HZ) 49.72
 LOOP NO 4 HOLE DOKA0035 AXIAL COMPONENT SECONDARY FIELD CHI CONTIN. NORM.

Fig 10.



Aberfoyle Resources Limited
EXPLORATION DIVISION

NORTH WEST TASMANIA

MACKINTOSH EL 106/87

DDH MAC 33, 35 - DHEM LOOPS

Compiled : RdeB

Drawn : RdeB

Traced : MAR

Checked : RdeB

Plate No. : MAC 405

REVISIONS

Init.	Date	Init.	Date

Location Code : K55/3

Scale : As Shown

Date : August 1993

1511

APPENDIX IV

DIAMOND DRILL LOG

DRILLING			LITHOLOGY										VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH		
			STATIONARY	ROCK TYPE	COLOUR	VOLCANOCLASTICS					LOWER CONTACT																									
						COMPOSITION	FRAGMENTS		MATRIX																											
DEPTH	DRILLING RUNS	CORE LOSS	COMPOSITION	MAX SIZE (mm)	SORTING	SHAPE	COMPOSITION	VOLUME %	GRADATION	STYLE	CONCENTRATION	MAX SIZE (mm)	SHAPE	TEXTURE	INTENSITY	MINERALOGY	INTENSITY	MAX WIDTH (mm)	MINERALOGY	TEXTURE	MINERALOGY & CONTENTS	POSITION OF BASE	DOWNSHAFT WIDTH (cm)	CORE AXIS ANGLE	GRADE	TYPE	CORE AXIS ANGLE	WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH				
2																																				
4		1																																		
6																																				
8																																				
10																																				
12																																				
14																																				
16																																				
18																																				
20																																				
22																																				
24																																				
26																																				
28																																				
30																																				
32																																				
34																																				
36																																				
38																																				
40																																				

deeply weathered.
Dacite has brown, iron oxide stained appearance.

940046

APPENDIX V

MAC37.REP

From	To	Sample	Type	Cu	Pb	Zn	Ag
				ppm	ppm	ppm	ppm
0	10	624922	cgri	54	26	86	<2.0
10	20	624923	cgri	47	<5	72	<2.0
20	30	624924	cgri	31	15	52	<2.0
30	40	624925	cgri	83	21	76	<2.0
40	51	624926	cgri	63	32	78	<2.0
51	59.5	624927	cgri	48	7	65	<2.0
59.5	71.2	624928	cgri	84	42	102	<2.0
71.2	95	624929	cgri	111	19	89	11
95	110	624930	cgri	41	10	47	<2.0
110	131.6	624931	cgri	62	7	80	<2.0
131.6	137	624932	cgri	65	<5	83	<2.0
137	142.5	624933	cgri	81	28	92	<2.0
142.5	149.9	624934	cgri	61	52	91	<2.0
149.9	165	624935	cgri	56	26	104	<2.0
165	175	624936	cgri	31	6	74	<2.0
175	185	624937	cgri	29	21	76	<2.0
185	195	624938	cgri	70	28	69	<2.0
195	203.8	624939	cgri	43	6	59	<2.0
203.8	214.4	624940	cgri	64	14	79	<2.0
214.4	225.2	624941	cgri	54	53	56	<2.0
225.2	235.9	624943	cgri	28	6	42	<2.0
235.9	246.6	624944	cgri	60	12	72	<2.0
246.6	256.2	624945	cgri	44	28	62	<2.0
256.2	266.2	624946	cgri	71	12	77	<2.0
266.2	274	624947	cgri	58	14	67	<2.0
274	277.5	624948	cgri	36	<5	70	<2.0
277.5	281.6	624949	cgri	49	7	63	<2.0
281.6	288.7	624950	cgri	41	<5	39	<2.0
288.7	295.6	624951	cgri	95	11	57	<2.0
295.6	312.3	624952	cgri	30	<5	46	<2.0
312.3	333	624953	cgri	61	8	83	<2.0
333	338.9	624954	cgri	37	5	70	<2.0
338.9	349.8	624955	cgri	64	<5	62	<2.0
349.8	360	624956	cgri	53	<5	52	<2.0
360	371.7	624957	cgri	70	<5	62	<2.0
371.7	372.7	624958	cgri	30	<5	32	<2.0
372.7	389.4	624959	cgri	86	10	74	<2.0
389.4	400	624960	cgri	102	<5	68	<2.0
400	413	624961	cgri	86	<5	55	<2.0
413	423.8	624962	cgri	45	9	31	<2.0
423.8	437.5	624963	cgri	37	14	27	<2.0
437.5	443.7	624964	cgri	88	13	65	<2.0
443.7	451.4	624965	cgri	34	19	27	<2.0
451.4	466.9	624966	cgri	48	7	44	<2.0
466.9	479.2	624967	cgri	49	7	84	<2.0
479.2	494.3	624968	cgri	64	13	62	<2.0
494.3	505	624969	cgri	64	9	97	<2.0
505	517.1	624970	cgri	77	10	92	<2.0
517.1	530.8	624971	cgri	64	19	80	<2.0
530.8	535	624972	cgri	56	11	90	<2.0
535	543.8	624973	cgri	62	<5	63	<2.0

MAC37.REP

543.8	549.6	624974	cgri	49	14	77	<2.0
549.6	562.6	624975	cgri	59	5	81	<2.0
562.6	575.4	624976	cgri	50	<5	84	<2.0
575.4	584.6	624977	cgri	57	<5	82	<2.0
584.6	590.1	624978	cgri	65	6	76	<2.0
590.1	598.4	624979	cgri	49	7	77	<2.0
598.4	606	624980	cgri	67	6	71	<2.0
606	613.5	624982	cgri	93	15	103	<2.0
613.5	622.5	624983	cgri	89	14	119	<2.0
622.5	625.3	624984	cgri	82	23	122	<2.0
625.3	628	624985	cgri	53	119	462	<2.0
628	631.6	624986	cgri	124	47	382	<2.0
631.6	646	624987	cgri	59	<5	149	<2.0
646	652.1	624988	cgri	106	67	109	<2.0
652.1	661.4	624989	cgri	82	38	213	<2.0
661.4	669.3	624990	cgri	72	22	148	<2.0
669.3	672.8	624991	cgri	138	19	304	<2.0
672.8	678.5	624992	cgri	97	9	113	<2.0
678.5	681	624993	cgri	122	6	171	<2.0
681	690	624994	cgri	108	<5	205	<2.0
690	699	624995	cgri	174	<5	165	<2.0
699	710.9	624996	cgri	76	24	160	<2.0
710.9	716	624997	cgri	94	84	160	<2.0
716	720	624998	cgri	149	17	136	<2.0
720	727.8	624999	cgri	98	10	151	<2.0
727.8	735.2	626000	cgri	121	85	2161	<2.0
735.2	741.6	626001	cgri	171	<5	152	<2.0
741.6	745	626002	cgri	82	62	257	<2.0
745	748.2	626003	cgri	44	80	212	<2.0
748.2	758.9	626004	cgri	43	<5	175	<2.0
758.9	764.1	626005	cgri	24	5	235	<2.0
764.1	770.7	626006	cgri	69	9	171	<2.0
770.7	780	626007	cgri	74	7	123	<2.0
780	786	626008	cgri	71	20	156	<2.0
786	792.3	626009	cgri	80	14	166	<2.0
792.3	800	626010	cgri	95	45	239	<2.0
800	807.9	626011	cgri	89	15	160	<2.0
807.9	818	626012	cgri	102	9	128	<2.0
818	826	626013	cgri	93	<5	123	<2.0
826	835.2	626014	cgri	105	35	130	<2.0

MAC37.REP

Au	Ba	As	Cr	Zr	Ti	SiO2	TiO2
ppm	ppm	ppm	ppm	ppm	ppm	%	%
<0.008	502	21	17	199	3118	66.8	0.52
<0.008	864	10	116	247	3037	63.9	0.51
<0.008	693	9	7	215	2256	70.8	0.38
<0.008	556	9	14	216	1679	73.5	0.28
<0.008	926	44	16	221	1755	72.2	0.29
<0.008	878	8	7	222	1714	72.4	0.29
<0.008	728	33	15	202	2755	67.6	0.46
<0.008	599	5	7	200	2390	70.6	0.4
<0.008	658	17	8	216	1918	69.4	0.32
<0.008	1006	14	25	208	1811	68	0.3
<0.008	1004	5	30	191	2137	67	0.36
0.014	1153	31	28	191	2328	67.7	0.39
0.018	808	32	11	192	2093	66.9	0.35
0.129	698	6	20	156	3472	58.6	0.58
0.042	730	5	17	155	3614	59.1	0.6
<0.008	759	6	15	156	3782	59.5	0.63
0.091	738	10	12	167	3507	61.7	0.58
0.009	711	9	14	199	1930	69	0.32
<0.008	768	15	18	208	1456	66.6	0.24
<0.008	688	10	19	206	1490	67.7	0.25
0.008	685	18	29	198	1473	67.8	0.25
0.029	734	18	117	148	3283	57.7	0.55
0.026	633	21	<5	195	1924	64.7	0.32
0.016	588	28	8	202	1865	65.4	0.31
0.018	623	28	56	162	2616	59.4	0.44
0.08	505	12	144	144	3297	56.2	0.55
0.04	802	23	38	142	2791	57.4	0.47
0.017	1022	11	<5	160	1905	67.8	0.32
0.034	861	32	27	169	3049	62.5	0.51
0.014	887	2	<5	187	2489	64.8	0.42
0.032	900	34	34	173	2961	61.2	0.49
0.02	728	18	54	158	3674	58.9	0.61
0.012	735	19	60	117	3216	57.4	0.54
0.055	864	18	13	158	3307	64.3	0.55
0.008	833	12	67	189	3325	59.8	0.55
0.052	734	7	30	174	2831	61.6	0.47
0.04	1125	20	34	141	3337	60.3	0.56
<0.008	693	16	27	102	4059	53.5	0.68
<0.008	591	25	42	106	3913	54.3	0.65
0.032	909	6	<5	155	741	74.7	0.12
0.066	1040	12	<5	151	676	77.9	0.11
0.05	1375	18	<5	154	1530	71	0.26
<0.008	1145	<2	<5	159	677	72.1	0.11
<0.008	909	5	<5	156	758	70.6	0.13
0.013	1186	24	80	144	3165	60.8	0.53
<0.008	1639	42	5	140	607	74.1	0.1
0.016	901	21	111	122	3115	51.9	0.52
<0.008	758	15	118	138	3198	54.8	0.53
<0.008	713	15	152	114	3358	54.4	0.56
0.025	653	14	100	146	3276	53.9	0.55
0.013	615	14	67	122	3601	57	0.6

MAC37.REP

0.033	746	49	47	130	2722	61.3	0.45
<0.008	709	18	125	134	3048	56.4	0.51
<0.008	670	7	97	123	3256	56	0.54
<0.008	332	10	85	68	2818	45.7	0.47
<0.008	653	18	84	98	3461	51.2	0.58
0.012	755	24	17	149	3379	60.5	0.56
<0.008	901	8	124	124	3292	52	0.55
0.009	717	14	226	109	2866	51.1	0.48
0.012	464	33	512	107	2625	48.5	0.44
0.022	577	62	317	128	2566	49.1	0.43
0.017	1856	54	16	146	1753	60.7	0.29
0.03	792	84	272	96	2597	40	0.43
<0.008	660	9	168	71	2706	49.5	0.45
<0.008	411	13	25	129	3602	60.9	0.6
<0.008	954	17	130	49	2615	51.4	0.44
<0.008	675	6	262	78	2349	55	0.39
<0.008	218	10	93	68	3192	49.9	0.53
<0.008	674	8	373	66	2492	53.9	0.42
<0.008	631	4	240	70	2899	53.3	0.48
<0.008	452	3	75	73	3130	55	0.52
<0.008	436	4	82	67	3008	52.8	0.5
<0.008	414	5	117	76	3158	54.2	0.53
0.008	826	2	641	47	2070	51.6	0.35
<0.008	364	5	542	42	2073	51.8	0.35
<0.008	185	5	940	51	1981	50	0.33
<0.008	144	3	842	42	1857	49.2	0.31
<0.008	501	5	330	72	2412	51.8	0.4
<0.008	81	3	799	65	2483	47.2	0.41
<0.008	85	4	429	70	2589	51.8	0.43
<0.008	67	5	273	54	2425	49.4	0.4
<0.008	111	13	437	82	3042	44.3	0.51
<0.008	147	6	320	90	3781	45.6	0.63
<0.008	530	3	338	74	3058	48	0.51
<0.008	793	5	261	89	3417	52.8	0.57
<0.008	565	6	275	88	3397	53.1	0.57
<0.008	592	9	147	55	2818	52.4	0.47
<0.008	642	8	138	47	2483	51.2	0.41
<0.008	319	4	170	52	2616	50	0.44
<0.008	625	3	285	66	2632	49.6	0.44
<0.008	402	3	269	70	2723	52.1	0.45

MAC37.REP

Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	P2O5
%	%	%	%	%	%	%	%
16	5.33	0.03	0.84	0.02	0.3	3.68	0.12
17.86	5.88	0.03	0.72	0.04	0.66	3.87	0.11
14.62	3.88	0.02	0.57	0.05	1.99	3.41	0.07
13.51	3.53	0.02	0.67	0.04	0.97	4.17	0.04
14.14	3.14	0.02	0.56	0.09	1.84	4.27	0.07
14.14	3.37	0.02	0.75	0.1	1.86	4.09	0.06
15.45	5.35	0.04	0.81	0.19	2.71	3.53	0.13
14.51	4.5	0.06	1.1	0.19	1.12	4.11	0.12
14.6	4.55	0.14	1.15	0.19	1.77	4.03	0.1
13.64	4.1	0.15	1.17	1.98	1.74	4.26	0.09
13.89	4.52	0.11	1.24	2.03	2.14	4.05	0.12
13.72	3.79	0.16	1.05	2.89	1.41	4.25	0.11
13.4	4.83	0.14	1.51	2.13	1.43	3.57	0.11
14.67	6.67	0.2	2.06	4.87	1.55	3.34	0.19
14.6	6.94	0.21	2.05	4.71	0.93	3.55	0.21
14.7	7.51	0.34	2.32	3.53	0.63	3.73	0.27
14.78	6.33	0.23	2.07	2.81	0.74	4.1	0.2
13.17	3.86	0.15	1.58	1.66	0.39	4.3	0.09
13.26	3.37	0.16	1.78	2.47	1.69	4.32	0.08
12.98	2.92	0.23	1.83	2.74	0.28	4.43	0.07
12.98	3.22	0.19	1.93	2.68	0.59	4.17	0.07
14.2	6.19	0.25	3.15	4.62	0.49	3.98	0.19
12.68	3.9	0.14	1.95	4.76	0.42	3.68	0.11
12.64	3.47	0.15	2.38	3.99	0.32	3.69	0.1
13.17	4.57	0.29	4.29	4.43	0.39	3.56	0.15
13.94	6.12	0.32	5.12	4.14	0.31	3.35	0.19
12.51	4.75	0.42	3.87	5.32	0.32	3.58	0.16
13.47	3.08	0.2	1.62	2.17	0.89	4.21	0.15
14.04	4.97	0.2	2.09	3.23	0.32	4.23	0.15
13.93	4.04	0.13	1.65	4.12	1.47	3.69	0.13
15.09	5.31	0.18	2.13	3.41	0.59	4.3	0.15
14.1	6.65	0.25	2.32	4.81	0.59	3.6	0.28
14.21	6.05	0.17	2.4	6.16	0.51	3.76	0.15
14.29	5.02	0.1	1.74	2.97	1.04	3.72	0.16
14.55	5.75	0.2	2.12	4.98	1.19	3.68	0.14
12.92	3.9	0.24	1.55	6.14	0.47	4.15	0.14
14.44	5.86	0.19	1.96	4.41	1.01	4.09	0.18
14.55	8	0.23	2.49	5.85	0.83	4.13	0.17
14.54	7.85	0.27	2.77	5.96	0.56	4.08	0.17
12.52	1.86	0.06	0.63	1.72	0.65	4.37	0.04
11.92	1.51	0.02	0.42	0.52	0.7	4.22	0.04
13.08	2.62	0.06	0.77	2.23	0.71	5.06	0.08
12.83	2.03	0.05	0.49	2.35	1.64	4.29	0.04
12.56	2.48	0.08	0.69	3.46	0.75	4.34	0.04
14.04	6.05	0.11	2.38	3.73	1.15	4.24	0.17
11.57	1.63	0.04	0.67	1.78	1.2	4.91	0.05
13.74	6.76	0.2	3.29	8.09	2.23	2.95	0.24
15.12	7.2	0.16	3.87	5.19	2.45	2.6	0.24
14.03	6.83	0.18	3.56	6.97	1.45	3.02	0.15
15.51	7.71	0.14	3.77	5.26	2.11	2.92	0.25
15.05	6.93	0.14	3.45	4.94	1.74	3.11	0.23

MAC37.REP

12.44	6.26	0.14	2.65	3.84	1.52	2.92	0.18
14.84	7.11	0.15	4.31	4.36	1.88	2.91	0.21
14.34	6.62	0.2	3.33	6.01	2.36	2.77	0.16
15.08	8.66	0.22	4.97	9.2	3.15	1.49	0.15
15.18	7.85	0.17	3.91	7.42	1.29	3.15	0.17
13.56	6.47	0.15	2.45	4.5	1.35	3.19	0.19
14.77	6.34	0.18	2.49	8.61	1.67	3.59	0.23
13.62	7.75	0.2	4.46	7.96	0.7	2.99	0.17
11.9	8.02	0.31	6.66	9.5	0.71	1.78	0.26
13.12	7.61	0.42	5.26	9.2	1.09	2.55	0.23
12.24	3.52	0.43	2.08	6.82	1.85	4.85	0.12
12.85	8.72	0.56	5.61	12.71	3.93	2.73	0.25
15.11	10.87	0.2	6.12	4.98	3.88	1.56	0.1
13.86	6.58	0.13	2.89	6.78	3.37	0.9	0.19
15.96	8.41	0.21	6.49	7.36	2.05	1.79	0.06
14.08	7.54	0.19	5.96	6.58	3.11	1.29	0.09
16.85	9.55	0.22	7.63	4.53	4.19	0.34	0.07
13.29	8.19	0.22	7.58	8.18	2.25	1.13	0.11
14.97	8.57	0.2	7.9	6.15	3.02	0.88	0.08
16.06	8.4	0.18	6.2	4.29	3.86	0.73	0.08
16.2	9.13	0.19	6.83	4.24	3.5	1	0.06
15.26	8.24	0.18	5.3	5.75	4.2	0.78	0.08
12.45	7.93	0.2	10.13	6.42	2.4	1.43	0.06
12.12	7.62	0.23	9.47	8.95	2.62	0.54	0.06
11.39	8.61	0.24	11.49	7.97	2.47	0.45	0.06
10.59	7.55	0.22	10.08	10.87	2.41	0.23	0.06
13.05	8.02	0.21	7.22	7.79	2.7	0.99	0.12
12.65	10.31	0.22	10.37	6.75	1.2	0.38	0.1
12.79	11.41	0.23	8.23	4.54	1.62	0.43	0.14
14.44	11.36	0.21	7.22	5.42	3.06	0.16	0.08
13.95	9.63	0.18	8.26	8.92	2.45	0.6	0.18
14.48	8.93	0.17	8.29	7.6	2.57	0.73	0.13
13.86	8.28	0.16	7.18	8.32	2.38	1.03	0.11
14.94	7.99	0.17	7.34	7.27	2.26	1.61	0.13
14.48	8.05	0.2	6.82	8.98	2.88	1.11	0.12
16.15	9.14	0.23	5.85	6.45	3.17	1.09	0.07
15.92	8.44	0.21	5.31	8.19	3.08	1.06	0.06
15.41	7.67	0.17	5.63	8.29	3.35	0.99	0.08
13.87	8.05	0.17	7.07	9.79	2.57	1.16	0.1
14.32	8.25	0.16	7.42	8.56	2.74	0.83	0.1

MAC37.REP

LOI	TOTAL	S	
%	%	%	
5.82	99.51	0.02	
6.49	100.1	0.01	
3.85	99.73	0.06	
2.79	99.71	0.08	
2.51	100.28	0.45	
2.46	99.76	0.08	
2.62	99.97	0.44	
2.88	99.77	0.05	
2.98	99.77	0.21	
3.83	99.57	0.13	
3.93	99.57	0.07	
4.33	100.25	0.18	
4.7	99.64	0.23	
6.66	99.57	0.07	
6.68	99.71	0.05	
6.6	99.93	0.06	
5.8	99.71	0.15	
4.77	99.81	0.19	
5.39	99.81	0.19	
5.9	99.62	0.12	
5.65	100	0.19	
8.15	99.79	0.13	
6.08	99.69	0.38	
6.08	99.44	0.36	
8.63	100.41	0.43	
8.75	99.51	0.21	
9.82	100.47	0.76	
5.05	99.95	0.42	
5.98	99.89	0.69	
6.04	100.43	0.03	
6	99.85	0.4	
6.94	99.5	0.18	
7.93	99.74	0.18	
4.86	99.54	0.31	
6.99	100.3	0.14	
7.3	99.63	0.3	
6.66	100.35	0.28	
9.05	99.77	0.11	
8.67	100.29	0.19	
3.24	100.16	0.1	
2.3	100.18	0.19	
3.75	100.36	0.3	
3.53	99.53	0.03	
4.69	100.12	0.14	
5.61	99.58	0.31	
3	99.52	0.18	
9.02	99.6	0.26	
6.84	99.75	0.28	
8.35	100	0.18	
7.44	99.96	0.15	
6.75	100.46	0.2	

5.02	99.84	1.23	
6.33	99.95	0.36	
7.39	100.33	0.24	
10.39	100.13	0.26	
8.93	100.41	0.22	
6.05	99.82	0.32	
9.28	99.93	0.09	
9.93	100.39	0.41	
10.96	100.33	0.5	
10.25	101.17	0.76	
6.85	101.1	0.53	
11.97	102.2	0.96	
7.29	100.3	0.1	
4.14	100.44	0.04	
5.75	100.01	0.02	
5.75	100	0.02	
6.02	99.92	0.04	
4.26	99.6	0.02	
4.71	100.31	0.03	
4.41	99.82	0.03	
5.88	100.43	0.05	
5.79	100.44	0.06	
6.91	100.28	0.14	
6.2	100.11	0.05	
6.58	99.83	0.09	
8.16	99.97	0.1	
7.41	99.74	0.03	
10.51	100.25	0.06	
8.04	99.91	0.1	
8.43	100.26	0.04	
11.28	100.26	0.02	
10.38	99.63	0.04	
10.59	100.5	0.03	
4.42	99.56	0.03	
4	100.4	0.02	
4.74	99.89	0.05	
5.74	99.71	0.05	
7.99	100.12	0.04	
6.83	99.72	0.03	
5.18	100.27	0.05	

ANALABS

A Division of Inchcape Testing Services (Australia) Pty. Ltd.
A.C.N. 004 591 664



Phone (004) 316837

14 Thirkell St. DOOEE TAS 7320

Fax (004) 318890

ANALYTICAL REPORT No.

100560.60.09737

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

INVOICE TO:

Aberfoyle Resources Limited
Exploration Division
P.O. Box 952
BURNIE TAS 7320

ORDER No.

PROJECT

4543

DATE RECEIVED

RESULTS REQUIRED

14/09/93

ASAP

No. OF PAGES
OF RESULTS

DATE
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No.
OF COPIES

12

12/10/93

1

TOTAL No.
OF SAMPLES

94

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

922/999,526060/015

CG Prep : 6P031 - CHROME FREE BOWLS

Cu,Pb,Zn,Ag/6A101

Au,Au(R)/6B309

Ba,As,Cr,Zr/6X401

WHOLE ROCK ANALYSIS/DX408

RESULTS
TO

Mr R de Bonford
Aberfoyle Resources Limited
Exploration Division
P.O. Box 952
BURNIE TAS 7320

RESULTS
TO

RESULTS
TO

REMARKS

MAC-37
CORE GRINDS

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A.C.N. 004 591 664**ANALYTICAL DATA**

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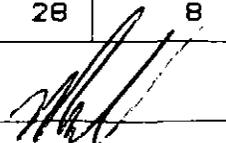
		100560.60.09737				12/10/93	4543		1 OF 12	
SUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Au	Au (R)	Ba	As	Cr
1	624922	54	26	86	<2	<0.008	-	502	21	17
2	624923	47	<5	72	<2	<0.008	-	864	10	116
3	624924	31	15	52	<2	<0.008	-	693	9	7
4	624925	83	21	76	<2	<0.008	-	556	9	14
5	624926	63	32	78	<2	<0.008	-	926	44	16
6	624927	48	7	65	<2	<0.008	-	878	8	7
7	624928	84	42	102	<2	<0.008	-	728	33	15
8	624929	111	19	89	11	<0.008	-	599	5	7
9	624930	41	10	47	<2	<0.008	-	658	17	8
10	624931	62	7	80	<2	<0.008	-	1006	14	25
11	624932	65	<5	83	<2	<0.008	-	1004	5	30
12	624933	81	28	92	<2	0.014	0.014	1153	31	28
13	624934	61	52	91	<2	0.018	-	808	32	11
14	624935	56	26	104	<2	0.129	-	698	6	20
15	624936	31	6	74	<2	0.042	-	730	5	17
16	624937	29	21	76	<2	<0.008	-	759	6	15
17	624938	70	28	69	<2	0.091	-	738	10	12
18	624939	43	6	59	<2	0.009	-	711	9	14
19	624940	64	14	79	<2	<0.008	-	768	15	18
20	624941	54	53	56	<2	<0.008	-	688	10	19
21	624942	130	204	2403	<2	0.009	-	1019	18	877
22	624943	28	6	42	<2	0.008	<0.008	685	18	29
23	624944	60	12	72	<2	0.029	-	734	18	117
24	624945	44	28	62	<2	0.026	-	633	21	<5
25	624946	71	12	77	<2	0.016	-	588	28	8

Results in ppm unless otherwise specified

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SAMPLE PREFIX

REPORT No

REPORT DATE

CLIENT ORDER No.

PAGE

100560.60.09737

12/10/93

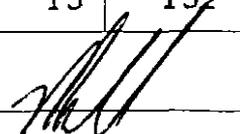
4543

2 OF 12

JBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Au	Au(R)	Ba	As	Cr
1	624947	58	14	67	<2	0.018	0.016	623	28	56
2	624948	36	<5	70	<2	0.080	-	505	12	144
3	624949	49	7	63	<2	0.040	-	802	23	38
4	624950	41	<5	39	<2	0.017	-	1022	11	<5
5	624951	95	11	57	<2	0.034	-	861	32	27
6	624952	30	<5	46	<2	0.014	-	887	2	<5
7	624953	61	8	83	<2	0.032	-	900	34	34
8	624954	37	5	70	<2	0.020	-	728	18	54
9	624955	64	<5	62	<2	0.012	-	735	19	60
10	624956	53	<5	52	<2	0.055	-	864	18	13
11	624957	70	<5	62	<2	0.008	-	833	12	67
12	624958	30	<5	32	<2	0.052	0.044	734	7	30
13	624959	86	10	74	<2	0.040	-	1125	20	34
14	624960	102	<5	68	<2	<0.008	-	693	16	27
15	624961	86	<5	55	<2	<0.008	-	591	25	42
16	624962	45	9	31	<2	0.032	-	909	6	<5
17	624963	37	14	27	<2	0.066	-	1040	12	<5
18	624964	88	13	65	<2	0.050	-	1375	18	<5
19	624965	34	19	27	<2	<0.008	-	1145	<2	<5
20	624966	48	7	44	<2	<0.008	-	909	5	<5
21	624967	49	7	84	<2	0.013	-	1186	24	80
22	624968	64	13	62	<2	<0.008	<0.008	1639	42	5
23	624969	64	9	97	<2	0.016	-	901	21	111
24	624970	77	10	92	<2	<0.008	-	758	15	118
25	624971	64	19	80	<2	<0.008	-	713	15	152

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REPORT DATE

CLIENT ORDER No.

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100560.60.09737

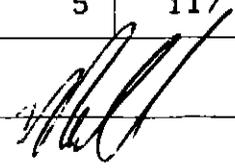
12/10/93

4543

3 OF 12

SAMPLE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Au	Au(R)	Ba	As	Cr
1	624972	56	11	90	<2	0.025	-	653	14	100
2	624973	62	<5	63	<2	0.013	-	615	14	67
3	624974	49	14	77	<2	0.033	-	746	49	47
4	624975	59	5	81	<2	<0.008	-	709	18	125
5	624976	50	<5	84	<2	<0.008	-	670	7	97
6	624977	57	<5	82	<2	<0.008	-	332	10	85
7	624978	65	6	76	<2	<0.008	-	653	18	84
8	624979	49	7	77	<2	0.012	-	755	24	17
9	624980	67	6	71	<2	<0.008	-	901	8	124
10	624981 X	124	199	2357	<2	0.011	-	1029	18	913
11	624982	93	15	103	<2	0.009	-	717	14	226
12	624983	89	14	119	<2	0.012	0.013	464	33	512
13	624984	82	23	122	<2	0.022	-	577	62	317
14	624985	53	119	462	<2	0.017	-	1856	54	16
15	624986	124	47	382	<2	0.030	-	792	84	272
16	624987	59	<5	149	<2	<0.008	-	660	9	168
17	624988	106	67	109	<2	<0.008	-	411	13	25
18	624989	82	38	213	<2	<0.008	-	954	17	130
19	624990	72	22	148	<2	<0.008	-	675	6	262
20	624991	138	19	304	<2	<0.008	-	218	10	93
21	624992	97	9	113	<2	<0.008	-	674	8	373
22	624993	122	6	171	<2	<0.008	<0.008	631	4	240
23	624994	108	<5	205	<2	<0.008	-	452	3	75
24	624995	174	<5	165	<2	<0.008	-	436	4	82
25	624996	76	24	160	<2	<0.008	-	414	5	117

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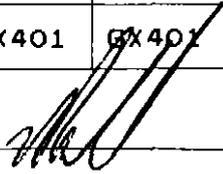
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CLIENT ORDER No.

PAGE

		100560.60.09737				12/10/93		4543		4 OF 12	
TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Au	Au(R)	Ba	As	Cr	
1	624997	94	84	160	<2	0.008	-	826	2	641	
2	624998	149	17	136	<2	<0.008	-	364	5	542	
3	624999	98	10	151	<2	<0.008	-	185	5	940	
4	626000	121	85	2161	<2	<0.008	-	144	3	842	
5	626001	171	<5	152	<2	<0.008	-	501	5	330	
6	626002	82	62	257	<2	<0.008	-	81	3	799	
7	626003	44	80	212	<2	<0.008	-	85	4	429	
8	626004	43	<5	175	<2	<0.008	-	67	5	273	
9	626005	24	5	235	<2	<0.008	-	111	13	437	
10	626006	69	9	171	<2	<0.008	-	147	6	320	
11	626007	74	7	123	<2	<0.008	-	530	3	338	
12	626008	71	20	156	<2	<0.008	<0.008	793	5	261	
13	626009	80	14	166	<2	<0.008	-	565	6	275	
14	626010	95	45	239	<2	<0.008	-	592	9	147	
15	626011	89	15	160	<2	<0.008	-	642	8	138	
16	626012	102	9	128	<2	<0.008	-	319	4	170	
17	626013	93	<5	123	<2	<0.008	-	625	3	285	
18	626014	105	35	130	<2	<0.008	-	402	3	269	
19	626015 ✓	126	206	2329	<2	<0.008	-	1011	19	871	
20											
21											
22											
23	DETECTION	4	5	4	2	0.008	0.008	10	2	5	
24	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
25	METHOD	GA101	GA101	GA101	GA101	GG309	GG309	GX401	GX401	GX401	

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ANALABSA Division of Inchcape Testing Services (Australia) Pty. Ltd.
A.C.N. 004 591 664**ANALYTICAL DATA**

SAMPLE PREFIX

REPORT No.

REPORT DATE

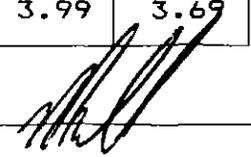
CLIENT ORDER No.

PAGE

		100560.60.09737				12/10/93		4543		5 OF 12	
BE No.	SAMPLE No.	Zr	Ti	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	
1	624922	199	3118	16.00	66.8	0.52	5.33	0.03	0.02	3.68	
2	624923	247	3037	17.86	63.9	0.51	5.88	0.03	0.04	3.87	
3	624924	215	2256	14.62	70.8	0.38	3.88	0.02	0.05	3.41	
4	624925	216	1679	13.51	73.5	0.28	3.53	0.02	0.04	4.17	
5	624926	221	1755	14.14	72.2	0.29	3.14	0.02	0.09	4.27	
6	624927	222	1714	14.14	72.4	0.29	3.37	0.02	0.10	4.09	
7	624928	202	2755	15.45	67.6	0.46	5.35	0.04	0.19	3.53	
8	624929	200	2390	14.51	70.6	0.40	4.50	0.06	0.19	4.11	
9	624930	216	1918	14.60	69.4	0.32	4.55	0.14	0.19	4.03	
10	624931	208	1811	13.64	68.0	0.30	4.10	0.15	1.98	4.26	
11	624932	191	2137	13.89	67.0	0.36	4.52	0.11	2.03	4.05	
12	624933	191	2328	13.72	67.7	0.39	3.79	0.16	2.89	4.25	
13	624934	192	2093	13.40	66.9	0.35	4.83	0.14	2.13	3.57	
14	624935	156	3472	14.67	58.6	0.58	6.67	0.20	4.87	3.34	
15	624936	155	3614	14.60	59.1	0.60	6.94	0.21	4.71	3.55	
16	624937	156	3782	14.70	59.5	0.63	7.51	0.34	3.53	3.73	
17	624938	167	3507	14.78	61.7	0.58	6.33	0.23	2.81	4.10	
18	624939	199	1930	13.17	69.0	0.32	3.86	0.15	1.66	4.30	
19	624940	208	1456	13.26	66.6	0.24	3.37	0.16	2.47	4.32	
20	624941	206	1490	12.98	67.7	0.25	2.92	0.23	2.74	4.43	
21	624942	85	2625	15.07	51.5	0.44	9.96	0.87	3.83	1.20	
22	624943	198	1473	12.98	67.8	0.25	3.22	0.19	2.68	4.17	
23	624944	148	3283	14.20	57.7	0.55	6.19	0.25	4.62	3.98	
24	624945	195	1924	12.68	64.7	0.32	3.90	0.14	4.76	3.68	
25	624946	202	1865	12.64	65.4	0.31	3.47	0.15	3.99	3.69	

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12/10/93

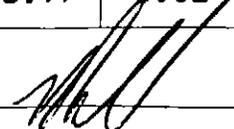
4543

6 OF 12

TU No.	SAMPLE No.	Zr	Ti	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O
1	624947	162	2616	13.17	59.4	0.44	4.57	0.29	4.43	3.56
2	624948	144	3297	13.94	56.2	0.55	6.12	0.32	4.14	3.35
3	624949	142	2791	12.51	57.4	0.47	4.75	0.42	5.32	3.58
4	624950	160	1905	13.47	67.8	0.32	3.08	0.20	2.17	4.21
5	624951	169	3049	14.04	62.5	0.51	4.97	0.20	3.23	4.23
6	624952	187	2489	13.93	64.8	0.42	4.04	0.13	4.12	3.69
7	624953	173	2961	15.09	61.2	0.49	5.31	0.18	3.41	4.30
8	624954	158	3674	14.10	58.9	0.61	6.65	0.25	4.81	3.60
9	624955	117	3216	14.21	57.4	0.54	6.05	0.17	6.16	3.76
10	624956	158	3307	14.29	64.3	0.55	5.02	0.10	2.97	3.72
11	624957	189	3325	14.55	59.8	0.55	5.75	0.20	4.98	3.68
12	624958	174	2831	12.92	61.6	0.47	3.90	0.24	6.14	4.15
13	624959	141	3337	14.44	60.3	0.56	5.86	0.19	4.41	4.09
14	624960	102	4059	14.55	53.5	0.68	8.00	0.23	5.85	4.13
15	624961	106	3913	14.54	54.3	0.65	7.85	0.27	5.96	4.08
16	624962	155	741	12.52	74.7	0.12	1.86	0.06	1.72	4.37
17	624963	151	676	11.92	77.9	0.11	1.51	0.02	0.52	4.22
18	624964	154	1530	13.08	71.0	0.26	2.62	0.06	2.23	5.06
19	624965	159	677	12.83	72.1	0.11	2.03	0.05	2.35	4.29
20	624966	156	758	12.56	70.6	0.13	2.48	0.08	3.46	4.34
21	624967	144	3165	14.04	60.8	0.53	6.05	0.11	3.73	4.24
22	624968	140	607	11.57	74.1	0.10	1.63	0.04	1.78	4.91
23	624969	122	3115	13.74	51.9	0.52	6.76	0.20	8.09	2.95
24	624970	138	3198	15.12	54.8	0.53	7.20	0.16	5.19	2.60
25	624971	114	3358	14.03	54.4	0.56	6.83	0.18	6.97	3.02

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100560.60.09737

12/10/93

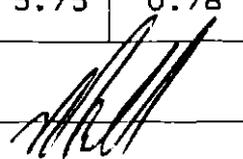
4543

7 OF 12

TU No.	SAMPLE No.	Zr	Ti	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O
	624972	146	3276	15.51	53.9	0.55	7.71	0.14	5.26	2.92
2	624973	122	3601	15.05	57.0	0.60	6.93	0.14	4.94	3.11
3	624974	130	2722	12.44	61.3	0.45	6.26	0.14	3.84	2.92
4	624975	134	3048	14.84	56.4	0.51	7.11	0.15	4.36	2.91
5	624976	123	3256	14.34	56.0	0.54	6.62	0.20	6.01	2.77
6	624977	68	2818	15.08	45.7	0.47	8.66	0.22	9.20	1.49
7	624978	98	3461	15.18	51.2	0.58	7.85	0.17	7.42	3.15
8	624979	149	3379	13.56	60.5	0.56	6.47	0.15	4.50	3.19
9	624980	124	3292	14.77	52.0	0.55	6.34	0.18	8.61	3.59
10	624981 X	87	2653	15.36	51.5	0.44	9.94	0.88	3.89	1.24
11	624982	109	2866	13.62	51.1	0.48	7.75	0.20	7.96	2.99
12	624983	107	2625	11.90	48.5	0.44	8.02	0.31	9.50	1.78
13	624984	128	2566	13.12	49.1	0.43	7.61	0.42	9.20	2.55
14	624985	146	1753	12.24	60.7	0.29	3.52	0.43	6.82	4.85
15	624986	96	2597	12.85	40.0	0.43	8.72	0.56	12.71	2.73
16	624987	71	2706	15.11	49.5	0.45	10.87	0.20	4.98	1.56
17	624988	129	3602	13.86	60.9	0.60	6.58	0.13	6.78	0.90
18	624989	49	2615	15.96	51.4	0.44	8.41	0.21	7.36	1.79
19	624990	78	2349	14.08	55.0	0.39	7.54	0.19	6.58	1.29
20	624991	68	3192	16.85	49.9	0.53	9.55	0.22	4.53	0.34
21	624992	66	2492	13.29	53.9	0.42	8.19	0.22	8.18	1.13
22	624993	70	2899	14.97	53.3	0.48	8.57	0.20	6.15	0.88
23	624994	73	3130	16.06	55.0	0.52	8.40	0.18	4.29	0.73
24	624995	67	3008	16.20	52.8	0.50	9.13	0.19	4.24	1.00
25	624996	76	3158	15.26	54.2	0.53	8.24	0.18	5.75	0.78

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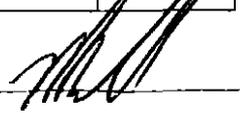
ANALYTICAL DATA

SAMPLE PREFIX REPORT No. REPORT DATE CLIENT ORDER No. PAGE

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		100560.60.09737				12/10/93		4543		8 OF 12	
TUBE No.	SAMPLE No.	Zr	Ti	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	
1	624997	47	2070	12.45	51.6	0.35	7.93	0.20	6.42	1.43	
2	624998	42	2073	12.12	51.8	0.35	7.62	0.23	8.95	0.54	
3	624999	51	1981	11.39	50.0	0.33	8.61	0.24	7.97	0.45	
4	626000	42	1857	10.59	49.2	0.31	7.55	0.22	10.87	0.23	
5	626001	72	2412	13.05	51.8	0.40	8.02	0.21	7.79	0.99	
6	626002	65	2483	12.65	47.2	0.41	10.31	0.22	6.75	0.38	
7	626003	70	2589	12.79	51.8	0.43	11.41	0.23	4.54	0.43	
8	626004	54	2425	14.44	49.4	0.40	11.36	0.21	5.42	0.16	
9	626005	82	3042	13.95	44.3	0.51	9.63	0.18	8.92	0.60	
10	626006	90	3781	14.48	45.6	0.63	8.93	0.17	7.60	0.73	
11	626007	74	3058	13.86	48.0	0.51	8.28	0.16	8.32	1.03	
12	626008	89	3417	14.94	52.8	0.57	7.99	0.17	7.27	1.61	
13	626009	88	3397	14.48	53.1	0.57	8.05	0.20	8.98	1.11	
14	626010	55	2818	16.15	52.4	0.47	9.14	0.23	6.45	1.09	
15	626011	47	2483	15.92	51.2	0.41	8.44	0.21	8.19	1.06	
16	626012	52	2616	15.41	50.0	0.44	7.67	0.17	8.29	0.99	
17	626013	66	2632	13.87	49.6	0.44	8.05	0.17	9.79	1.16	
18	626014	70	2723	14.32	52.1	0.45	8.25	0.16	8.56	0.83	
19	626015 X	86	2606	15.15	51.3	0.43	9.88	0.89	3.88	1.27	
20											
21											
22											
23	DETECTION	5	60	0.01	0.1	0.01	0.01	0.01	0.01	0.01	
24	UNITS	ppm	ppm	%	%	%	%	%	%	%	
25	METHOD	GX401	OX408	OX408	OX408	OX408	OX408	OX408	OX408	OX408	

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PAGE

100560.60.09737

12/10/93

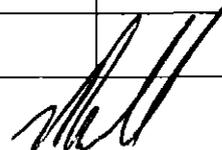
4543

9 OF 12

TUBE No.	SAMPLE No.	MgO	P2O5	S	Na2O	LOI	TOTAL			
	624922	0.84	0.124	0.020	0.30	5.82	99.51			
2	624923	0.72	0.111	0.010	0.66	6.49	100.10			
	624924	0.57	0.073	0.060	1.99	3.85	99.73			
4	624925	0.67	0.043	0.080	0.97	2.79	99.71			
5	624926	0.56	0.068	0.450	1.84	2.51	100.28			
	624927	0.75	0.063	0.080	1.86	2.46	99.76			
7	624928	0.81	0.133	0.440	2.71	2.62	99.97			
	624929	1.10	0.122	0.050	1.12	2.88	99.77			
9	624930	1.15	0.103	0.210	1.77	2.98	99.77			
10	624931	1.17	0.090	0.130	1.74	3.83	99.57			
	624932	1.24	0.115	0.070	2.14	3.93	99.57			
12	624933	1.05	0.113	0.180	1.41	4.33	100.25			
	624934	1.51	0.108	0.230	1.43	4.70	99.64			
14	624935	2.06	0.187	0.070	1.55	6.66	99.57			
	624936	2.05	0.214	0.050	0.93	6.68	99.71			
	624937	2.32	0.273	0.060	0.63	6.60	99.93			
	624938	2.07	0.203	0.150	0.74	5.80	99.71			
	624939	1.58	0.094	0.190	0.39	4.77	99.81			
19	624940	1.78	0.076	0.190	1.69	5.39	99.81			
20	624941	1.83	0.065	0.120	0.28	5.90	99.62			
21	624942 X	7.30	0.199	0.040	3.69	5.47	99.62			
22	624943	1.93	0.067	0.190	0.59	5.65	100.00			
23	624944	3.15	0.195	0.130	0.49	8.15	99.79			
24	624945	1.95	0.107	0.380	0.42	6.08	99.69			
25	624946	2.38	0.101	0.360	0.32	6.08	99.44			

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100560.60.09737

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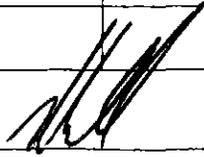
4543

10 OF 12

TUBE No.	SAMPLE No.	MgO	P2O5	S	Na2O	LOI	TOTAL			
1	624947	4.29	0.150	0.430	0.39	8.63	100.41			
2	624948	5.12	0.190	0.210	0.31	8.75	99.51			
3	624949	3.87	0.161	0.760	0.32	9.82	100.47			
4	624950	1.62	0.148	0.420	0.89	5.05	99.95			
5	624951	2.09	0.147	0.690	0.32	5.98	99.89			
6	624952	1.65	0.129	0.030	1.47	6.04	100.43			
7	624953	2.13	0.151	0.400	0.59	6.00	99.85			
8	624954	2.32	0.280	0.180	0.59	6.94	99.50			
9	624955	2.40	0.155	0.180	0.51	7.93	99.74			
10	624956	1.74	0.164	0.310	1.04	4.86	99.54			
11	624957	2.12	0.144	0.140	1.19	6.99	100.30			
12	624958	1.55	0.142	0.300	0.47	7.30	99.63			
13	624959	1.96	0.178	0.280	1.01	6.66	100.35			
14	624960	2.49	0.166	0.110	0.83	9.05	99.77			
15	624961	2.77	0.169	0.190	0.56	8.67	100.29			
16	624962	0.63	0.042	0.100	0.65	3.24	100.16			
17	624963	0.42	0.039	0.190	0.70	2.30	100.18			
18	624964	0.77	0.077	0.300	0.71	3.75	100.36			
19	624965	0.49	0.041	0.030	1.64	3.53	99.53			
20	624966	0.69	0.040	0.140	0.75	4.69	100.12			
21	624967	2.38	0.174	0.310	1.15	5.61	99.58			
22	624968	0.67	0.048	0.180	1.20	3.00	99.52			
23	624969	3.29	0.237	0.260	2.23	9.02	99.60			
24	624970	3.87	0.244	0.280	2.45	6.84	99.75			
25	624971	3.56	0.154	0.180	1.45	8.35	100.00			

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REPORT DATE

CLIENT ORDER No.

PAGE

100560.60.09737

12/10/93

4543

11 OF 12

SUBE No.	SAMPLE No.	MgO	P2O5	S	Na2O	LOI	TOTAL			
1	624972	3.77	0.251	0.150	2.11	7.44	99.96			
2	624973	3.45	0.226	0.200	1.74	6.75	100.46			
3	624974	2.65	0.182	1.230	1.52	5.02	99.84			
4	624975	4.31	0.207	0.360	1.88	6.33	99.95			
5	624976	3.33	0.159	0.240	2.36	7.39	100.33			
6	624977	4.97	0.153	0.260	3.15	10.39	100.13			
7	624978	3.91	0.167	0.220	1.29	8.93	100.41			
8	624979	2.45	0.188	0.320	1.35	6.05	99.82			
9	624980	2.49	0.235	0.090	1.67	9.28	99.93			
10	624981 X	7.30	0.205	0.060	3.85	5.48	100.23			
11	624982	4.46	0.169	0.410	0.70	9.93	100.39			
12	624983	6.66	0.263	0.500	0.71	10.96	100.33			
13	624984	5.26	0.227	0.760	1.09	10.25	101.17			
14	624985	2.08	0.116	0.530	1.85	6.85	101.10			
15	624986	5.61	0.248	0.960	3.93	11.97	102.20			
16	624987	6.12	0.098	0.100	3.88	7.29	100.30			
17	624988	2.89	0.190	0.040	3.37	4.14	100.44			
18	624989	6.49	0.061	0.020	2.05	5.75	100.01			
19	624990	5.96	0.090	0.020	3.11	5.75	100.00			
20	624991	7.63	0.072	0.040	4.19	6.02	99.92			
21	624992	7.58	0.111	0.020	2.25	4.26	99.60			
22	624993	7.90	0.079	0.030	3.02	4.71	100.31			
23	624994	6.20	0.077	0.030	3.86	4.41	99.82			
24	624995	6.83	0.064	0.050	3.50	5.88	100.43			
25	624996	5.30	0.083	0.060	4.20	5.79	100.44			

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12/10/93

4543

12 OF 12

UBE No.	SAMPLE No.	MgO	P2O5	S	Na2O	LOI	TOTAL			
1	624997	10.13	0.058	0.140	2.40	6.91	100.28			
2	624998	9.47	0.058	0.050	2.62	6.20	100.11			
3	624999	11.49	0.057	0.090	2.47	6.58	99.83			
4	626000	10.08	0.058	0.100	2.41	8.16	99.97			
5	626001	7.22	0.116	0.030	2.70	7.41	99.74			
6	626002	10.37	0.097	0.060	1.20	10.51	100.25			
7	626003	8.23	0.142	0.100	1.62	8.04	99.91			
8	626004	7.22	0.076	0.040	3.06	8.43	100.26			
9	626005	8.26	0.178	0.020	2.45	11.28	100.26			
10	626006	8.29	0.130	0.040	2.57	10.38	99.63			
11	626007	7.18	0.112	0.030	2.38	10.59	100.50			
12	626008	7.34	0.128	0.030	2.26	4.42	99.56			
13	626009	6.82	0.123	0.020	2.88	4.00	100.40			
14	626010	5.85	0.072	0.050	3.17	4.74	99.89			
15	626011	5.31	0.062	0.050	3.08	5.74	99.71			
16	626012	5.63	0.077	0.040	3.35	7.99	100.12			
17	626013	7.07	0.098	0.030	2.57	6.83	99.72			
18	626014	7.42	0.103	0.050	2.74	5.18	100.27			
19	626015	7.23	0.198	0.050	3.69	5.45	99.52			
20										
21										
22										
23	DETECTION	0.05	0.005	0.005	0.05	0.01	0.01			
24	UNITS	%	%	%	%	%	%			
25	METHOD	OX408	OX408	OX408	OX408	OX408	OX408			

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
- = element not determined

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OFFICER



LITHOLOGICAL LEGEND

QUATERNARY	Qa,g,u	2	ALLUVIUM/SWAMP (a), GLACIAL (g), UNDIFFERENTIATED (u)	
TERTIARY	TB	8	BASALT LAVA	
	TS	7	SILCRETE	
DEVONIAN SILURIAN	S-D	30	ELDON GROUP SEDIMENTS (UNDIFFERENTIATED)	
ORDOVICIAN	Ogl	34	GORDON GROUP (UNDIFFERENTIATED)	
	Oms	33	MOINA SANDSTONE	
EARLY ORDOVICIAN LATE CAMBRIAN	EOa	15	UPPER UPPER OWEN-CHERT BEARING CONGLOMERATE & SANDSTONE (PIONEER BEDS EQUIVALENT)	
	EOul	17	LOWER UPPER OWEN-WELL BEDDED PINK SANDSTONE	
	EOom	14	MIDDLE OWEN-DOMINANTLY PEBBLE CONGLOMERATE	
	EOon	16	NEWTON CREEK SANDSTONE MEMBER EQUIVALENT	
	20	16		
Tyndall Group	Tv1	38	RED VOLCANICLASTIC CONGLOMERATE	
	Tv2	38	RED ASH-LAPILLI VOLCANICLASTIC, MINOR CONGLOMERATE	
	Tv3	40	INTERBEDDED SILTSTONE, SANDSTONE AND SILICICLASTIC CONGLOMERATE	
Southwell Sub-Group	RDI	28	RHYOLITE-DACITE LAVA & SHALLOW INTRUSIVE	
	Ms	29	MICACEOUS SANDSTONE, SHALE MINOR CONGLOMERATE	
	Flv	25	FELSIC LAPILLI VOLCANICLASTICS, OFTEN EUTAXITIC	
	URS1	65	QTZ. XTAL. RICH VOLCANICLASTIC c- BLACK SHALE MATRIX, BLACK VITRIC VOLCANICLASTIC c- EUTAXITIC FRAGS	
	2	69	GREY LAMINATED SILTSTONE & LITHIC WACKE CONTAINING BLACK SHALE & CHERT FRAGMENTS	
	3	68	BLACK SHALE LENSES	
	4	68	QTZ. XTAL. RICH VOLCANICLASTICS WITHOUT BLACK SHALE OR BLACK VITRIC MATRIX	
	65	52		
	Que River Shale	QRS	68	BLACK CARBONACEOUS QTZ./MICA SHALE.
	Mt. Charter Group	B	50	AMYGDALOIDAL BASALT SHEET LAVA (B-1) & PILLOW LAVA (B-p1) WHICH INCLUDES HYALOCLASTITE BRECCIA & INTERPILLOW CHERT
		A	42	ANDESITE (TRACHYTIC LAVA & BRECCIA)
		Bvc	49	BASALT VOLCANICLASTIC (c- BMS SULPHIDE FRAGMENTS IN GOLDEN TRIANGLE)
D		53	DACITE LAVA COMMONLY FLOW BANDED & DACITE VOLCANICLASTIC	
Y		58	CLAST DOMINANT, LAPILLI TO BRECCIA VOLCANICLASTICS. CONTAINS CLASTS OF ANDESITE, BASALT, DACITE & BASE METAL SULPHIDES COMMONLY IN A CHERT MATRIX.	
Ba		22	MASSIVE COARSELY CRYSTALLINE TO WEAKLY BEDDED BARITE	
BMS		21	BASE METAL SULPHIDE LENSES	
HA		6	STRONGLY SERICITE-PYRITE-QUARTZ-CHLORITE ALTERED ROCKS. ALTERATION OBLITERATES PRIMARY FEATURES.	
Afp		48	ANDESITE FELDSPAR PHYRIC LAVA COMMONLY AUTOBRECCIATED & ANDESITE VOLCANICLASTIC	
LB		45	LOWER BASALT - AMYGDALOIDAL BASALT SHEET LAVA, PILLOW LAVA & BASALT VOLCANICLASTIC	
Que-Hellyer Volcanics	MSs	71	MASSIVE QTZ./MICA SANDSTONE. COMMON INTERBEDS OF BLACK CARBONACEOUS QTZ./MICA SHALE.	
Animal Ck. Greywacke	BH	70	ASH TO FINE LAPILLI VOLCANICLASTIC & SHALE	
S.W. of Mt. Charter Fault	QFP	27	QTZ. FELDSPAR PORPHYRY INTRUSIVES	
	Sh	68	BLACK SHALE, SILTSTONE	
	Vt	68	FELSIC FINE GRAINED VITRIC VOLCANICLASTIC	
	FI	46	FELSIC LAVA, MOSTLY FELDSPAR PHYRIC, MASSIVE TO AMYGDALOIDAL	
	46			
Central Volcanic Complex	CV1	18	FELSIC VOLCANICLASTIC c- EUTAXITIC FRAGMENTS (IGNIMBRITE?)	
	CV2	13	RHYODACITE-RHYOLITE LAVA & POSSIBLE INTRUSIVES	
	CV3	11	FELSIC FINE GRAINED VITRIC VOLCANICLASTIC	

UNASSIGNED SEQUENCE - East of Henty Fault

RDI	28	RHYOLITE TO RHYODACITE LAVA &/OR INTRUSIVE
MSs	71	MICACEOUS SANDSTONE & INTERBEDDED SHALE
Dvc	54	DACITE VOLCANICLASTIC
Rvc	27	RHYOLITE VOLCANICLASTIC
B	45	BASALT LAVA

INTRUSIVE LITHOLOGIES

KI	19	?CRETACEOUS LAMPROPHYRE DYKES
Dol	32	?CAMBRIAN DOLERITE SILLS
R	28	QTZ PROPHYRITIC RHYOLITE SILLS
QFP	27	QTZ FELDSPAR PORPHYRY INTRUSIVE
ADi	64	ANDESITE-DACITE INTRUSIVES. COMMON IN MSs GROUND 1600N 6000E (MINE GRID).

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EXPLORATION DIVISION

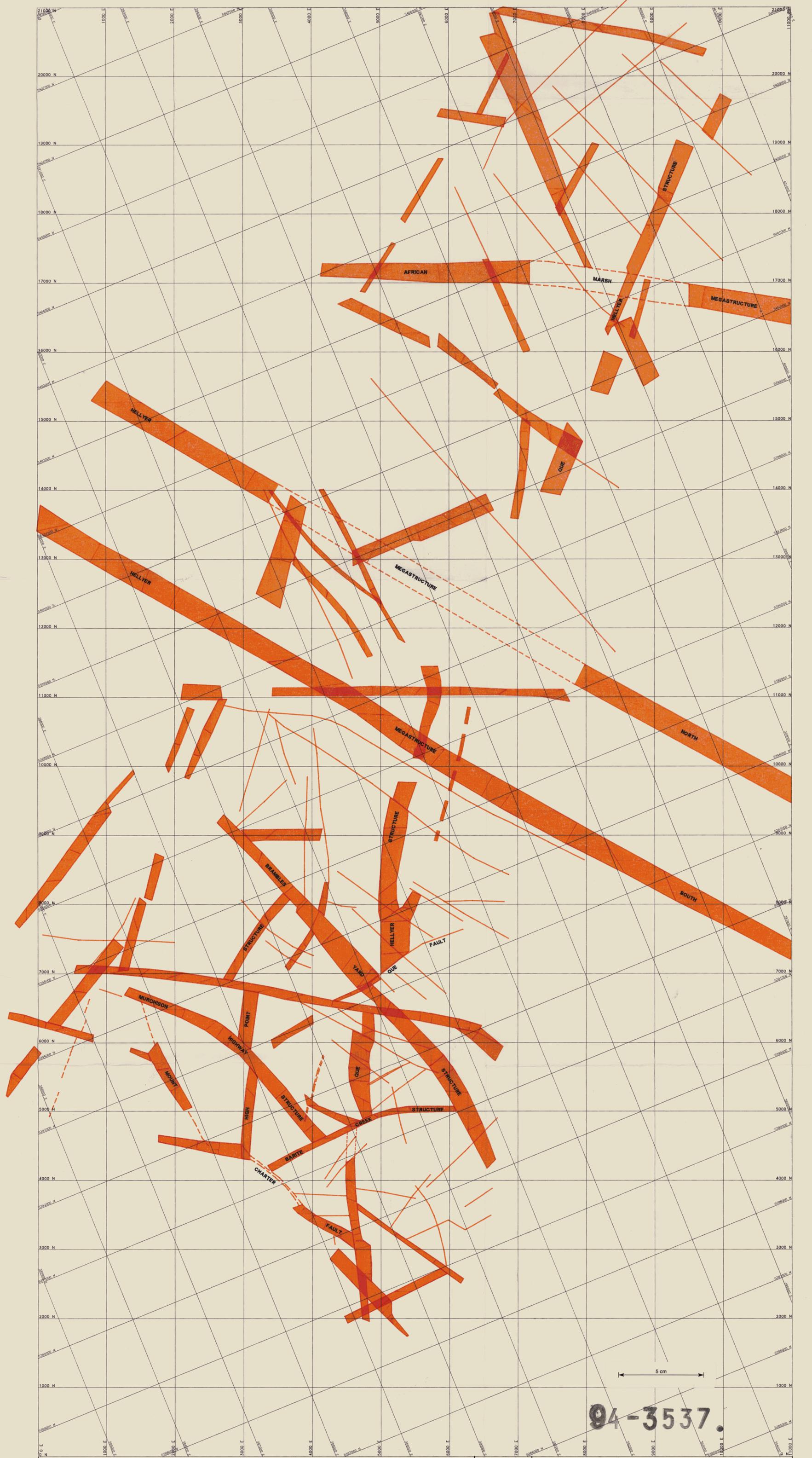
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REVISIONS		
INIT.	CHECK	DATE

GEOLOGICAL LEGEND
NORTH-WEST TASMANIA
MACKINTOSH E.L.106/87

DRAWN	NWR	06/93
CHECKED		
DESIGNED	SMR	05/93
APPROVED		
SCALE		
DRAWING No.		

nachleg07932nvr



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NORTH

REVISIONS			
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Aberfoyle Resources Limited
EXPLORATION DIVISION
A.C.N. 106 106 106

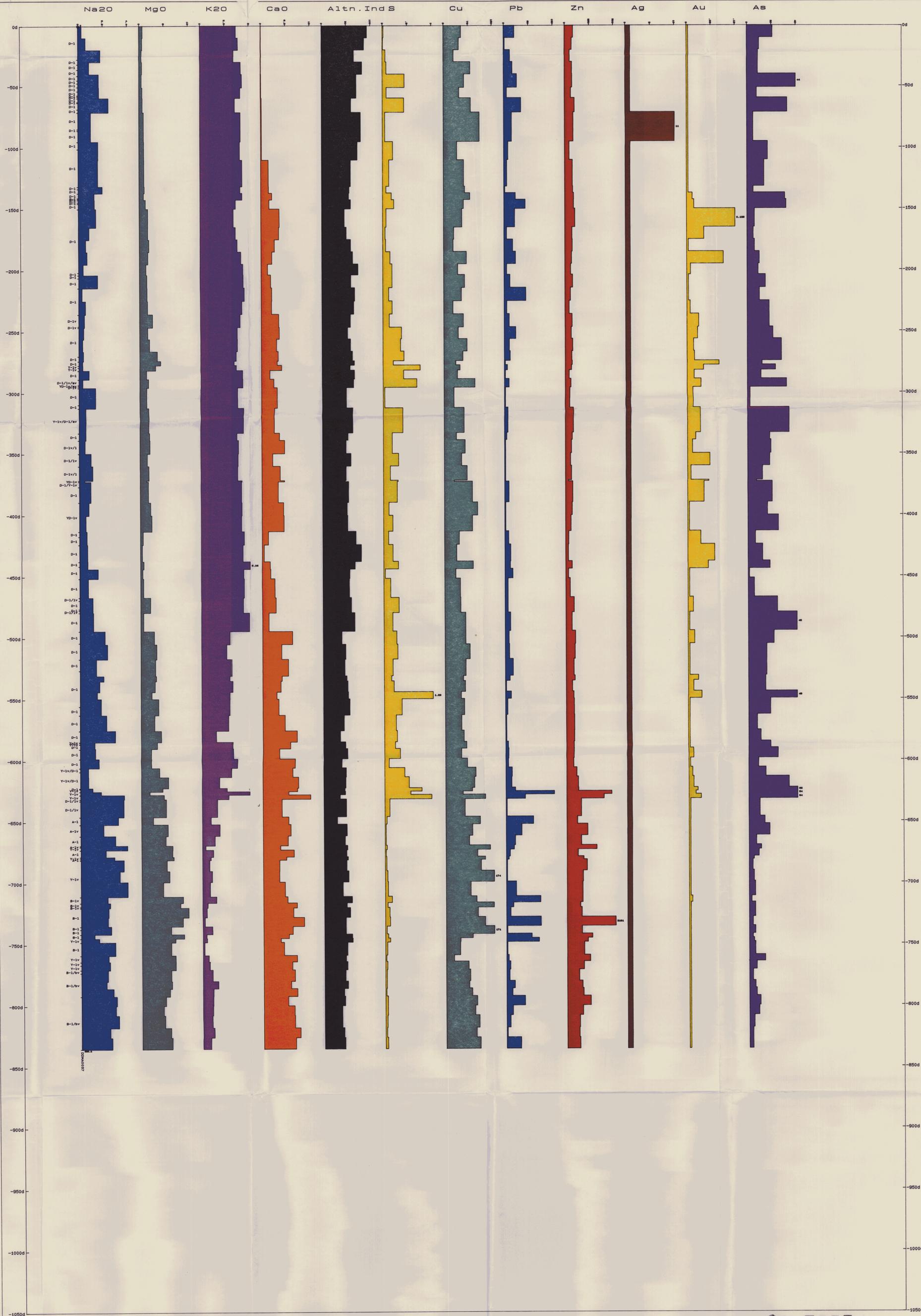
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MACKINTOSH E.L.106/87
INTERPRETED
STRUCTURAL FRAMEWORK

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Drawn: NWR
Plotted:
Checked: SMR
Plate No: MAC 411

Location Code: Scale: 1:25000 Date: January 94

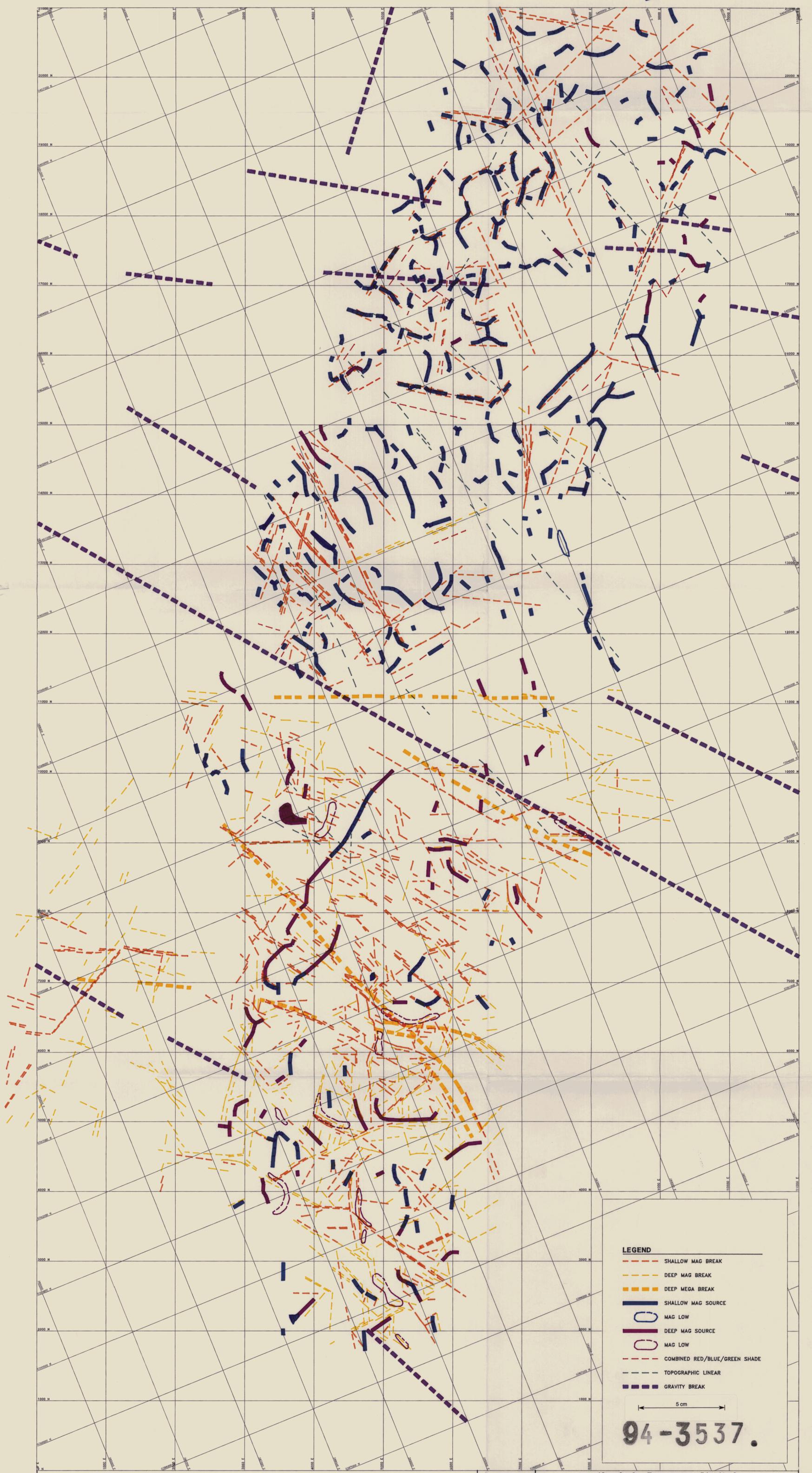
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 HOLE CONCLUSION: ...
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 HOLE REFERENCES: ...
 HOLE CONTACTS: ...
 HOLE NOTES: ...
 HOLE SIGNATURE: ...
 HOLE DATE: ...



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REVISIONS		Tasmania		Geochimical Profiles	
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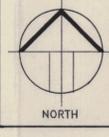
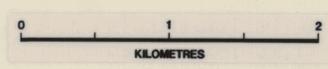
5cm



- LEGEND**
- SHALLOW MAG BREAK
 - DEEP MAG BREAK
 - DEEP MEGA BREAK
 - SHALLOW MAG SOURCE
 - MAG LOW
 - DEEP MAG SOURCE
 - MAG LOW
 - COMBINED RED/BLUE/GREEN SHADE
 - TOPOGRAPHIC LINEAR
 - GRAVITY BREAK

5 cm

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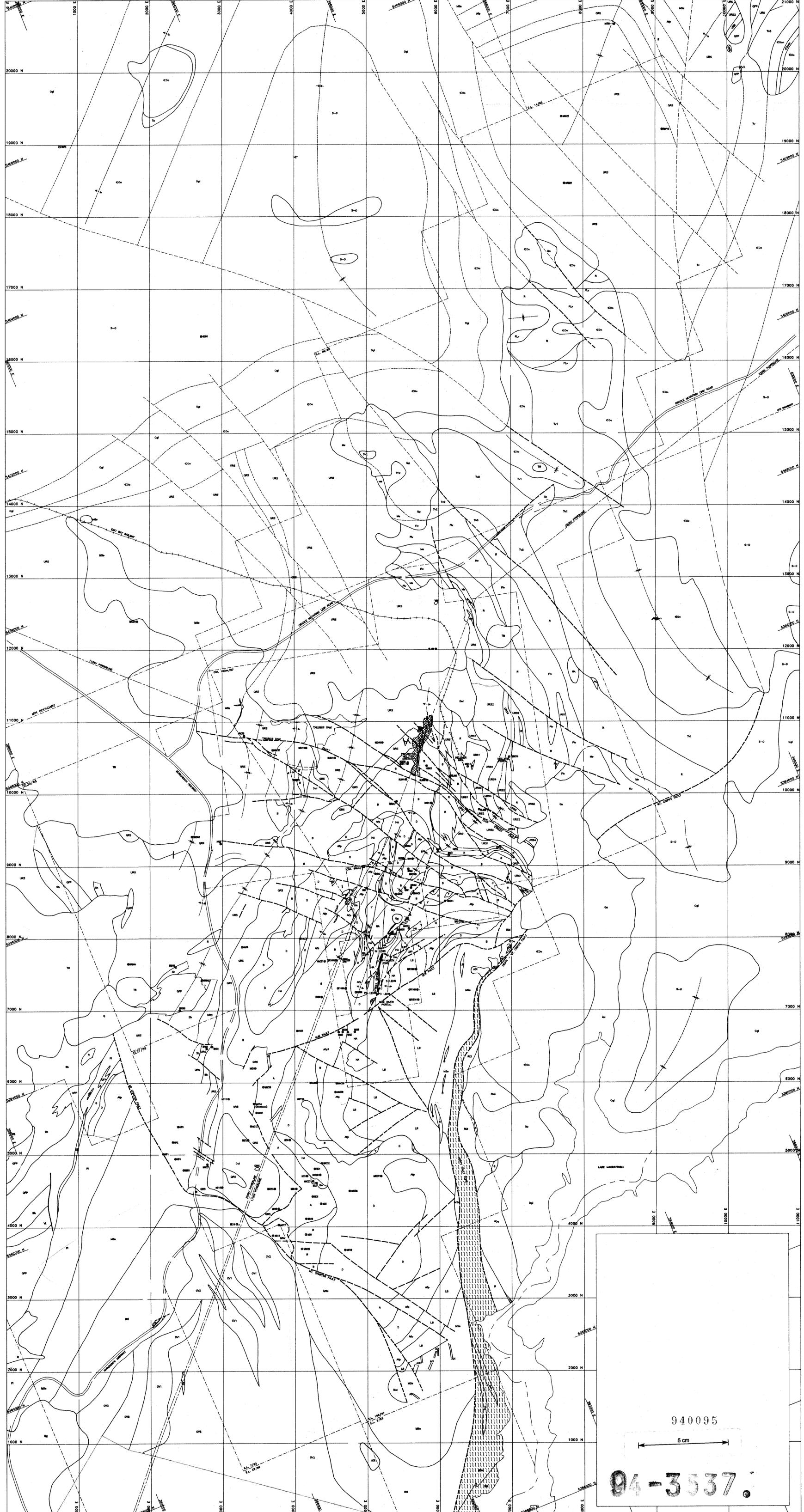


REVISIONS			
INT.	DATE	INT.	DATE

Aberfoyle Resources Limited 940094
EXPLORATION DIVISION
MACKINTOSH E.L.106/87
AEROMAGNETIC INTERPRETATION
GEOMETRIC SKELETON

Location Code: _____ Scale: 1:25000 Date: January 94

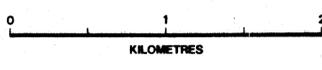
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Checked: SMR
Plate No: MAC 410



940095

5 cm

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REVISIONS			
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Aberfoyle Resources Limited
EXPLORATION DIVISION

MACKINTOSH E.L.106/87
INTERPRETIVE
GEOLOGY

Compiled	SMR
Drawn	NWR
Checked	SMR
Plate No.	MAC 412