

CRA EXPLORATION PTY. LIMITED
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EL 43/92 MELBA FLATS, TASMANIA
REPORT ON EXPLORATION FOR THE SECOND YEAR OF TENURE,
17/4/94 TO 16/3/95.

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VOLUME 1 OF 2

CONTENTS

	<u>Page</u>
1 SUMMARY	1
2 INTRODUCTION	2
3 CONCLUSIONS	2
4 RECOMMENDATIONS	5
5 REGIONAL GEOLOGY	5
6 MINERALISATION	5
7 PREVIOUS EXPLORATION BY COMPETITORS	6
8 EXPLORATION ACTIVITIES PRIOR TO 17.4.94	6
9 EXPLORATION ACTIVITIES FOR THE PERIOD 17.4.94 TO 16.3.95	7
9.1 Exploration Philosophy	7
9.2 Line Cutting	7
9.3 Rock Chip Geochemistry	7
9.4 Soil Geochemistry	8
9.5 Ground PROTEM Survey	8
9.6 Heliborne Magnetic and Radiometric Survey	9
9.7 Ground Magnetic Survey	9
9.8 IP-Resistivity Survey	10
9.9 Diamond Drilling	10
9.10 Sampling of Previous Workers Drill Core	14
9.11 Petrology and Dolerite Geochemistry	14
10 ENVIRONMENT AND REHABILITATION	15
REFERENCES	16
KEYWORDS	18
LOCATION	18
LIST OF DPO's	18
LIST OF PLANS	18
LIST OF FIGURES	20
LIST OF APPENDICES	20

1. SUMMARY

A number of high-grade massive Cu-Ni (-PGE-Au) sulphide lenses are known within the Melba Flats licence area. Massive sulphide lenses identified to date are up to 50 m long, 3 m wide and commonly exceed 10% combined Ni + Cu. Depth extent is unknown. Mineralisation is generally hosted by dolerite sills which intrude the **Cuni** stratigraphy. CRAE is investigating the potential for Cu-Ni (-PGE-Au) resources in the form of:-

- depth extensions to known massive sulphide lenses
- additional non-outcropping massive sulphide lenses
- bulk tonnage disseminated sulphides

Work undertaken during the reporting period included soil and rock chip geochemistry, ground and airborne magnetic surveys, ground EM and IP surveys, diamond drilling and petrological studies.

A five hole diamond drilling program (420 m) was completed within the **North Cuni-Genet's Winze** prospect area. Massive sulphide was intersected in three holes:-

	<i>intersection m</i>	<i>width</i>	<i>Ni%</i>	<i>Cu%</i>	<i>Pd ppm</i>	<i>Pt ppm</i>	<i>Au ppm</i>
MF01	48.50-49.20	0.70	9.30	4.50	1.40	0.85	0.83
MF04	37.75-38.55	0.80	7.75	10.30	1.56	1.22	1.94
MF03	24.60-25.10	0.50	7.71	2.90	1.14	1.06	1.10

MF05 intersected disseminated Cu-Ni sulphide in a previously untested dolerite sill.

MF05	73.65-75.60	1.95	0.44	0.63	0.30	0.24	0.22

A two hole diamond drilling program (37.65 m) was completed in the vicinity of the abandoned Nickel Reward mine within the **Nickel Reward-Vaudeau** prospect area. Holes failed to intersect the massive Cu-Ni sulphide sheet intersected in previous drilling. Review of drilling data indicated this sheet dips very steeply to the NW. All drilling in this area, including CRAE holes MF06 and MF07, has been sub parallel to this plane.

Petrological studies of the Melba Flats Cu-Ni sulphide mineralisation concluded chalcopyrite-pentlandite-pyrrhotite-millerite are the main relicts of the primary massive sulphide assemblage. Violerite-pyrite are supergene. Preserved sulphide textures indicate an epigenetic origin for this mineralisation. Dolerite mineralogy suggests parental magmas were hydrous, which is incompatible with significant magmatic sulphide formation.

PROTEM data from the **Nickel Reward-Vaudeau** grid is significantly affected by culture making geological interpretation impossible. Data from the **North Cuni-Genet's Winze** grid indicates several conductors. The most prominent conductor corresponds to the position of the "eastern dolerite" massive Cu-Ni sulphide lode. Parallel conductors to the west have not been tested by drilling.

IP-resistivity data collected over known Cu-Ni sulphide mineralisation within the **South Cuni** and **North Cuni-Genet's Winze** prospect areas indicates weak chargeability responses corresponding to known mineralisation at the abandoned South Cuni mine, also 300 m north along strike on line 5367000N. If these responses are indicative of responses due to mineralisation, it would be very difficult to discriminate between mineralisation responses and the noisy background of the **Cuni** stratigraphy.

Interpretation of soil geochemistry and ground & airborne magnetic data is incomplete, pending final results from these surveys.

Following a review of all exploration data the major focus for exploration in the third year of tenure will be drill testing geochemical and geophysical anomalies interpreted to represent significant Cu-Ni sulphide mineralisation.

2. INTRODUCTION

Exploration licence 43/92 Melba Flats encompassing an area of 16 km², was granted on the 16th of April 1993 for an initial tenure of one year. The licence area lies approximately seven km to the NE of Zeehan and includes sections of the Murchison Highway and the Emu Bay Railway (Plan Tv 675).

A number of high-grade massive Cu-Ni sulphide lenses are known within the Melba Flats licence area. Massive sulphide lenses identified to date are up to 50 m long, 3 m wide and commonly exceed 10% combined Ni + Cu. Depth extent is unknown.

CRAE is investigating the potential for Cu-Ni resources in the form of:-

- depth extensions to known massive sulphide lenses
- additional non-outcropping massive sulphide lenses
- bulk tonnage disseminated sulphides

Enriched PGE and Au occurs with the Cu-Ni sulphides, which may enhance project economics.

Mineralisation is related to a series of north trending ?Cambrian dolerite sills which subcrop over a 2 km strike length. Sills intrude the uncorrelated **Cuni** stratigraphy - a ?Cambrian aged, interbedded volcanoclastic wacke, siltstone and shale sequence (Plan Tv 680). Known massive Cu-Ni sulphide mineralisation occurs along the footwall contact of the dolerite sills at the abandoned Nickel Reward, Vaudeau, Mosquito, Blowfly, South Cuni, North Cuni and Genet's Winze mines.

This report details all exploration activities conducted within EL 43/92 by CRAE during the period 17.4.95 to 16.3.95.

3. CONCLUSIONS

Significant untested PROTEM conductors within the **North Cuni-Genet's Winze** prospect area, and Cu-Ni anomalies in soil within the **Nickel Reward-Vaudeau** and **North Cuni-Genet's Winze** prospect areas may represent extensions to known massive Cu-Ni sulphide lenses and additional parallel massive/disseminated Cu-Ni sulphide lenses.

Drilling within the **North Cuni-Genet's Winze** prospect area indicated:-

- some (?protore) massive sulphide mineralisation is magnetic
- the geometry of massive sulphide mineralisation is more complicated than a simple sheet
- massive sulphide mineralisation is hosted by diorite sills and **Cuni** sedimentary rocks
- disseminated sulphide occurs in a dolerite sill south and west of previously known mineralisation

Review of drilling in the vicinity of the abandoned Nickel Reward mine indicated the massive Cu-Ni sulphide sheet dips very steeply to the NW. All drilling has been sub parallel to this plane - consequently, the mineralisation has not been properly tested.

Some Cu-Ni sulphide mineralisation is able to be detected by IP-resistivity survey. If these responses are indicative of responses due to mineralisation, it would be very difficult to discriminate between mineralisation responses and the noisy background of the **Cuni** stratigraphy.

4. RECOMMENDATIONS

Review of previous drilling including compilation of cross-sections and long-sections should be completed as a high priority.

A review of all data should be undertaken and a judgement on the potential for a CRA sized resource within the Melba Flats licence area made. If this judgement is "perceived good potential", geochemical and geophysical anomalies interpreted to represent significant Cu-Ni sulphide mineralisation should be tested with the objective of quickly determining this potential.

5. REGIONAL GEOLOGY

See Aravanis (1994).

6. MINERALISATION

See Aravanis (1994).

7. PREVIOUS EXPLORATION BY COMPETITORS

See Aravanis (1994).

8. EXPLORATION ACTIVITIES PRIOR TO 17.4.94

In the first year of tenure, CRAE undertook a fixed wing airborne TEM (QUESTEM) survey covering the Melba Flats licence area. The purpose of this survey was to identify conductors to focus ground exploration for massive Cu-Ni sulphide mineralisation. Very high background resistivities and higher than normal flying height (due to topography) which resulted in excessive movement in the towed receiver contributed to the poor quality of data obtained. The most prominent response indicated by the QUESTEM data was a 2 km strike length anomaly to the east of the Cu-Ni workings corresponding to a 50 m wide carbonaceous black shale unit. Poor conductors are associated with the known massive sulphide pods at the abandoned Nickel Reward, Vaudeau and North Cuni mines. A 300 m moderate conductor was interpreted to extend SE of the abandoned Nickel Reward mine.

Two detail grids totalling 27.8 line km were cut over the **Nickel Reward-Vaudeau** and **NORTH CUNI-GENET'S WINZE** prospect areas to facilitate ground geophysical and geochemical surveys. 128 soil samples were collected as part of a detailed soil geochemistry program which was completed in April 1995. Maximum assays were 1737 ppm Cu, 964 ppm Ni, 1338 ppm Pb and 407 ppm Zn.

A detailed ground magnetic survey totalling 9.0 line km was completed over the **Nickel Reward-Vaudeau** grid to determine whether the known massive sulphide lenses and dolerite intrusives were able to be magnetically discriminated from the host sedimentary sequence, and if so, to locate new and known massive sulphide lenses. This data has been recompiled at 1:2,500 scale and is shown on Plan Tv 678. Despite prominent cultural noise, the data suggested the massive sulphide lodes at the abandoned Nickel Reward and Vaudeau mines are non magnetic. This was consistent with the low magnetic susceptibility measurements for soil and rock chip samples.

60 rock chip samples were taken from the abandoned Cu-Ni mines and from the Serpentine Hill Ultramafic Complex for geochemical analysis. Nine rock chip samples submitted for geochemical analysis were also submitted for petrological description.

Review of 1988 Tasmanian Mines Department gravity data indicated a 0.6 mgal anomaly coincident with a geochemical soil anomaly believed to represent mineralised dolerite.

9. EXPLORATION ACTIVITIES FOR THE PERIOD 17.4.94 TO 16.3.95

9.1 Exploration Philosophy

A number of high-grade massive Cu-Ni sulphide lenses are known within the Melba Flats licence area. Massive sulphide lenses identified to date are up to 50 m long, 3 m wide and commonly exceed 10% combined Ni + Cu.

CRAE is investigating the potential for Cu-Ni resources in the form of:-

- depth extensions to known massive sulphide lenses
- additional non-outcropping massive sulphide lenses
- bulk tonnage disseminated sulphides

Enriched PGE and Au occurs with the Cu-Ni sulphides, which may enhance project economics.

9.2 Line Cutting

6.2 km of line cutting and gridding was undertaken within the Melba Flats licence area extending existing grids and establishing the **South Cuni** grid. The **South Cuni** grid lies between the existing **Nickel Reward-Vaudeau** and **North Cuni-Genet's Winze** grids. The baseline of the **South Cuni** grid is a 0.8 km extension of the **Nickel Reward-Vaudeau** grid baseline. E-W gridlines are spaced at 200-300 m to allow systematic regional geochemical sampling and geophysical data collection over **Cuni** stratigraphy. The location of all gridlines (plus other culture) is shown on Plan Tv 954.

9.3 Rock Chip Geochemistry

44 rock chip samples were collected within the Melba Flats licence area for geochemical analysis. Samples weighing 1-2 kg were sent to Analabs where they were dried, crushed, pulverised (GPO33) and analysed for Cu Pb Zn Ag Ni Co Fe Cr As $\pm$ Mn by GA140 (0.3 g aqua regia/perchloric acid digest - AAS). Samples with greater than 0.3(0.5)% Ni were additionally analysed for Au Pt Pd by GG316 (50 g fire assay - AAS). All sample locations are shown on Plans Tv 950 & 951. Geochemical sample ledgers and laboratory reports are included in Appendix I.

Significant results from sampling were:

Samples of massive Cu-Ni sulphide mullock from the abandoned South Cuni mine assayed 10.4% Ni, 3.05% Cu, 1.160 ppm Pt, 1.140 ppm Pd, 0.230 ppm Au, & 1177 ppm Co, and 2.47% Ni, 14.0% Cu, 2.560 ppm Au, 8.780 ppm Pd & 1.720 ppm Pt.

A mullock sample of altered dolerite with disseminated sulphide from the abandoned North Cuni mine assayed 0.85% Ni, 4.21% Cu, 1.54 g/t Au, 1.44 g/t Pt and 1.90 g/t Pd.

Pyroxenite with visible sulphide crops out at 366850E 5367350N. Selective grab rock chip samples of this outcrop had low Cu-Ni assays.

Pyroxenite with visible sulphide crops out 150 m NW of the abandoned Nickel Reward mine. Selective grab rock chip samples of this outcrop had low Cu-Ni assays.

Quartz-sphalerite-galena breccia from a working at 366090E 5367430N assayed 23.6% Zn, 26.6% Pb and 510 ppm Ag. The workings correspond to a black shale unit striking NNW (parallel to the Devonian discordant mineralisation trend). A similar sample from Pb-Zn workings 500 m along strike at 366150E 5367915N assayed 1460 ppm Ag, 31.30% Pb, and 21.10% Zn. Pb-Zn workings have also been mapped 250 m along strike to the south.

9.4 Soil Geochemistry

A program of soil/bedrock sampling was undertaken covering the **Cuni** stratigraphy with the objective of identifying dolerite sills and Cu-Ni mineralisation. Samples were collected at 10 m intervals in the vicinity of known mineralisation, and at 20-25 m intervals away from known mineralisation on the **North Cuni-Genet's Winze, Nickel Reward-Vaudeau** and **South Cuni** grids.

In addition to samples collected in the first year of tenure, 934 B and C-horizon soil and bedrock samples were collected by hand auger from depths up to 2 m and 118 bedrock samples were collected by wacker from depths up to 7.4 m. Samples weighing 0.2-1 kg were sent to Analabs where they were dried, crushed, pulverised (GPO33) and analysed for Cu Pb Zn Ag Ni Co Fe Cr As $\pm$ Mn by GA140 (0.3 g aqua regia/perchloric acid digest - AAS). Samples with greater than 0.3(0.5)% Ni were additionally analysed for Au Pt Pd by GG316 (50 g fire assay - AAS). All sample locations are shown on Plan Tv 946. Geochemical sample ledgers and laboratory reports are included in Appendix II, assay results for 271 soil samples from DPO 77233 are awaited and will be reported at a later date.

Detailed interpretation of data will be undertaken when all results are received. Preliminary multivariate statistical analysis indicates two distinct geochemical signatures which may be related to mineralisation:- Cu-Pb and Cr-Ni-Co. Additionally, scavenging of Zn Cr Co (Ni) by Fe and Mn was indicated in some (often swampy) areas.

Plans Tv 947 and 948 show soil/bedrock Ni and Cu anomaly maps for all data except DPO 77233. Preliminary interpretation indicates dolerite/Cu-Ni sulphide can be discriminated geochemically from host sedimentary sequences and discordant Pb-Zn mineralisation. Data suggests extensions to known mineralisation and additional parallel mineralised sills.

9.5 Ground PROTEM Survey

19.4 line km of 25 m station spacing PROTEM data were collected on the **NORTH CUNI-GENET'S WINZE** and **Nickel Reward-Vaudeau** grids. All data collected is shown graphically on Plans Tv 784-843.

The data from the **Nickel Reward-Vaudeau** grid was marred by the ?combined effects of an underground Telecom cable and the Emu Bay railway line, and noise from an overhead power cable. No prominent EM response is indicated by data over the abandoned Nickel Reward and Vaudeau mines. The effect of culture masks subtle features, and makes the geological interpretation of data impossible.

Cultural noise in data collected on the **North Cuni-Genet's Winze** grid is less pronounced. Several conductors are indicated by the data (Plan Tv 952). The most prominent conductor corresponds to the position of the North Cuni-Genet's Winze massive sulphide lode. This conductor is at least 700 m long, and appears to extend north and south beyond the survey area. Parallel conductors to the west have not been tested by drilling. The eastern conductor corresponds to the position of a black shale unit which hosts discordant lode/vein-style Pb Zn Ag mineralisation (including the abandoned Lead Blocks mine).

Devonian quartz-carbonate filled fault zones observed within the **Cuni** stratigraphy may electrically isolate massive sulphide mineralisation, and significantly reduce EM responses.

Significant differences in response were noted with the PROTEM receiver relative to gain setting used. Higher gains were more susceptible to this error.

9.6 Heliborne Magnetic and Radiometric Survey

Detailed Heliborne magnetic and radiometric data was collected over the **Cuni** stratigraphy with the objective of detecting pyrrhotite bearing massive sulphide mineralisation. Approximately 110 line km of data were collected along 40 m spaced E-W lines over a 1.6 x 2.8 km area including the known massive Cu-Ni sulphide occurrences.

Data is awaited, and will be reported at a later date.

9.7 Ground Magnetic Survey

A detailed ground magnetic survey totalling 10.5 line km was completed over the **North Cuni-Genet's Winze** grid with the objective of detecting pyrrhotite bearing massive sulphide mineralisation. Data were collected with GEM Overhauser GSM-19 magnetometers at 5 m intervals along 50 m spaced lines. Stacked profiles of data are shown in Plan Tv 679.

A detailed interpretation of the data will be undertaken in conjunction with interpretation of the helimagnetic data when this becomes available. Preliminary interpretation indicates some magnetic anomalies correspond to untested mineralised dolerite sills (identified by wacker sampling) west of the abandoned North Cuni mine.

9.8 IP-Resistivity Survey

Drilling has shown that the massive Cu-Ni sulphide mineralisation is typically overlain by disseminated Cu-Ni sulphide. An orientation IP-resistivity survey was undertaken within the **North Cuni-Genet's Winze** and **South Cuni** prospect areas over known massive Cu-Ni sulphide mineralisation to determine whether this style of mineralisation is able to be discriminated by the IP method. Systematic coverage of the **Cuni** stratigraphy was planned if the orientation survey showed the mineralisation was able to be discriminated. Approximately 2.8 line km of data were collected along three lines:

- 5366700N (365750-6850E) - profiling known mineralisation at the abandoned South Cuni mine
- 5867700N (365750-6850E) - profiling discontinuous mineralisation between the abandoned North Cuni and Genet's Winze mines
- 5367000N (365750-6850E) - 300 m north of the abandoned South Cuni mine

Data is yet to be compiled on plans, and will be included at a later date. Preliminary interpretation of data indicates weak chargeability responses corresponding to known Cu-Ni sulphide mineralisation. If these responses are indicative of responses due to mineralisation, it would be very difficult to discriminate between mineralisation responses and the noisy background of the **Cuni** stratigraphy. Because of this, further work was not considered.

9.9 Diamond Drilling

North Cuni - Genet's Winze Prospect Area

A five hole drilling program (DD94MF01-05) totalling 417.5 m, was undertaken within the **North Cuni-Genet's Winze** prospect area. The location of drill holes in this area is shown on Plan Tv 953. A summary of this drilling is given in Figures 1-5. Significant mineralisation intersected is summarised below.

	<i>intersection m</i>	<i>width</i>	<i>Ni%</i>	<i>Cu%</i>	<i>Pd ppm</i>	<i>Pt ppm</i>	<i>Au ppm</i>
MF01	48.50-49.20	0.70	9.30	4.50	1.40	0.85	0.83
	45.70-46.80	1.10	0.45	0.60	0.24	0.18	0.19
MF04	37.75-38.55	0.80	7.75	10.30	1.56	1.22	1.94
	36.90-37.75	0.85	0.47	0.48	0.24	0.18	0.14
MF03	24.60-25.10	0.50	7.71	2.90	1.14	1.06	1.10
MF05	73.65-75.60	1.95	0.44	0.63	0.30	0.24	0.22

Selected intervals only were submitted geochemical analysis. 121 half-core samples were sent to Analabs where they were dried, crushed, pulverised and analysed for Ag Co Cr Cu Fe Ni Pb Zn Mn by GA140 (0.3 g aqua regia digest-AAS). Samples with greater than 0.3% Ni were additionally analysed for Au Pt Pd by GG316 (50 g fire assay - AAS). Detailed drill logs, geochemical sample ledgers and laboratory reports are included in Appendix III.

HOLE No.	DD94MF01	TOT DEPTH	62.25m
CO-ORDS	366437.2E	5367771.0N	-200m ASL
ORIENTATION		AZIMUTH	INCLINATION
		320° AMG	-45°
SURVEY	DEPTH	AZIMUTH	INCLINATION
DATA	62.00m	316° AMG	-44°
EST. RECOVERY		95.35%	

LAB	Analabs	DPO No.	77365

PROSPECT	North Cuni - Genet's Winze
TENEMENT	Meiba Flats EL 43/92
SHEET	Queenstown SK55-05
LOGGED BY	T Aravanis

DRILLERS	Tasmanian Diamond Drillers
RIG TYPE	Longyear 38
START	28 June 1994
COMPLETE	1 July 1994

OBJECT

DD94MF01 was drilled within 5m of DD04, a 1930 Mines Department diamond drill hole. Poor records for DD04 reported only a single assay of ~1.07m massive sulphide @ 10.1% Ni and 5.5% Cu. Although disseminated sulphides within the gabbro were reported in DD04, no assays were taken.

The aim of DD94MF01 was to test the proposal that significant disseminated Cu/Ni sulphides occurred within the gabbro, making a viable target for CRAE.

RESULT

The hole intersected a sequence of sediments (red, green and grey shale and greywacke) surrounding a 9.8m of gabbro with trace to minor disseminated sulphides, overlying a 70cm interval of massive sulphide.

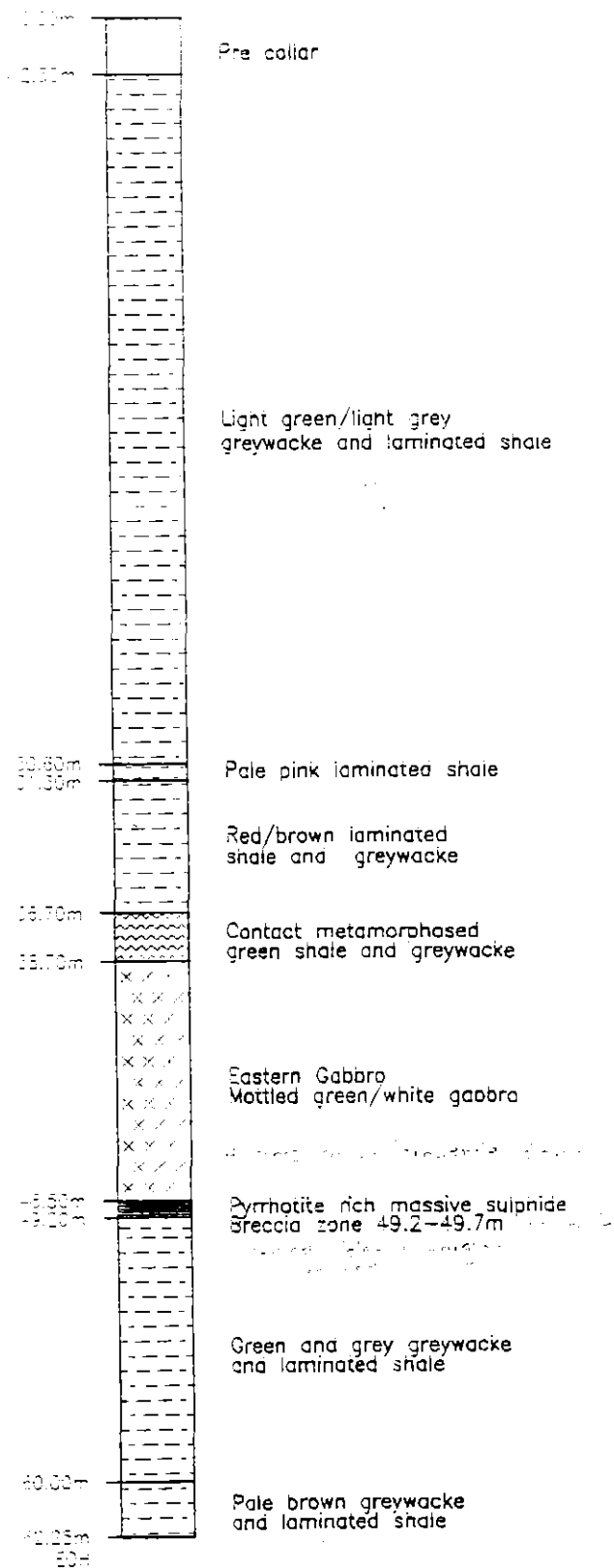
MINERALISATION

The gabbro was found to contain trace amounts of chalcopyrite, pyrite and possibly pentlandite increasing with depth becoming sulphide blebs. An 70cm interval of massive sulphide (mainly pyrrhotite, chalcopyrite and pentlandite) was encountered at the base of the gabbro assaying 9.30% Ni, 4.50% Cu, 0.83ppm Au, 0.85ppm Pt and 1.40ppm Pd.

Trace sphalerite and galena associated with calcite veining was observed in the sediments below the gabbro dyke.

DISCUSSION

The results of DD94MF01 were disappointing due to the lack of significant disseminated Ni and Cu mineralisation in the gabbro dyke.



HOLE No.	DD94MF02	TOT DEPTH	115.50m
CO-ORDS	366437.6E	5367770.5N	-200m ASL
ORIENTATION		AZIMUTH	INCLINATION
		320° AMG	-60°
SURVEY	DEPTH	AZIMUTH	INCLINATION
DATA	115.50m	308° AMG	-59°
EST. RECOVERY	96.98%		

LAB	Analabs	DPO No.	77365

PROSPECT	North Cuni - Gener's Winze
TENEMENT	Meiba Flats EL 43/92
SHEET	Queenstown SK55-05
LOGGED BY	T Aravanis

DRILLERS	Tasmanian Diamond Drillers
RIG TYPE	Longyear 38
START	1 July 1994
COMPLETE	8 July 1994

OBJECT

DD94MF02 was drilled below DD94MF01 to test the continuation of the eastern "mineralised" gabbro and continue to a parallel gabbro dyke referred to as barren by previous explorers.

RESULT

DD94MF02 encountered a similar sequence of greywacke and shale to DD94MF01 although there is some evidence for reverse faulting below the eastern gabbro. The western "barren" gabbro was intersected ~33m below the eastern gabbro.

MINERALISATION

The eastern or upper gabbro was found to contain only trace disseminated pyrite, chalcopyrite, and pentlandite, averaging 326ppm Ni and 86ppm Cu over 13.65m.

Similarly unspectacular assays were returned from the lower gabbro dyke.

A 1m wide calcite vein encountered at 108.2m assayed 1.00% Zn and 0.20% Pb.

DISCUSSION

The upper or eastern gabbro intersected in DD94MF02 was 5.35m, whilst in DD94MF01 the dyke was over 12m. Allowing for differences in dip angles, the eastern gabbro appears to be thinning down dip. The results from DD94MF01 & 2 are consistent with the previous drilling results, indicating that the massive sulphide lens associated with the eastern "mineralised" gabbro only occurs with the thicker portions of the dyke.

As the gabbro dyke and sediments are of Cambrian age, it is not unreasonable to assume the gabbro was near flat lying at the time of intrusion. It is proposed that sulphides crystallising out solution during cooling had settled in palaeo topographic lows and thus coinciding with thicker portions of gabbro. The significance of this hypothesis is that, it is likely that further localised massive sulphide lenses should exist within the eastern gabbro and possibly in parallel gabbro dykes.

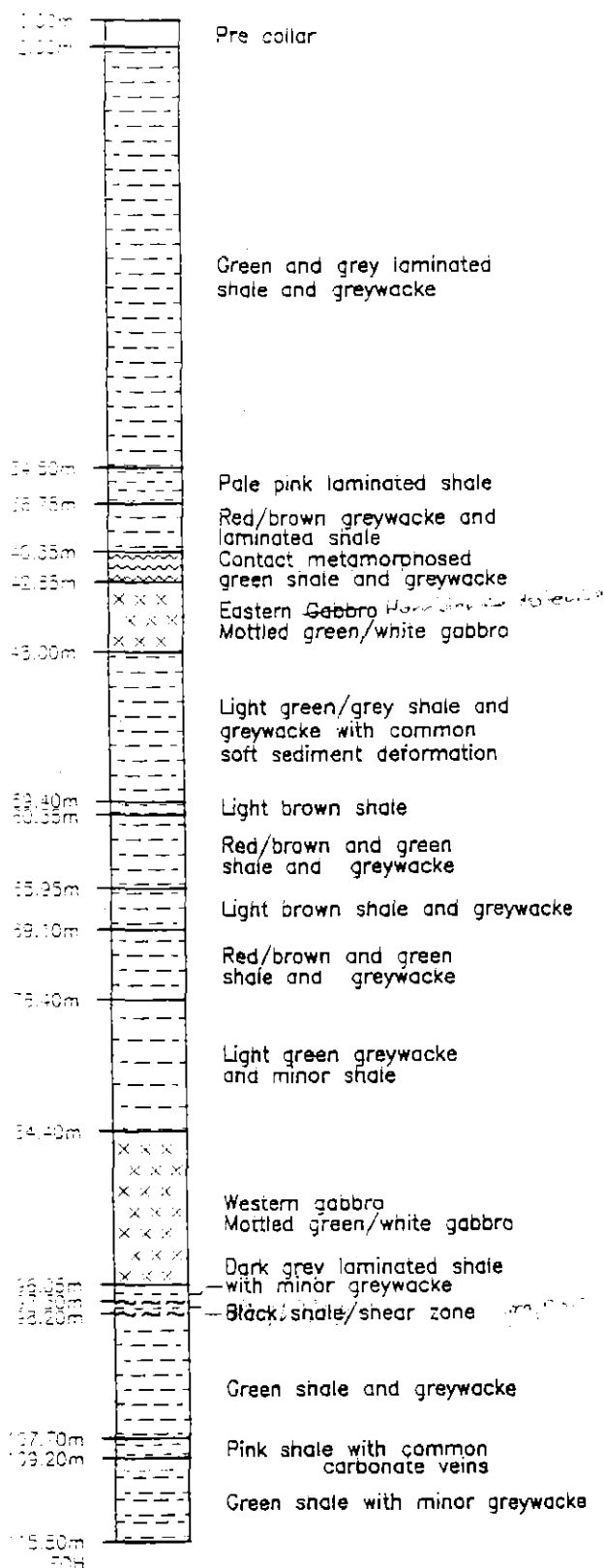


Figure 3

HOLE No.	DD94MF03	TOT DEPTH	82.50m
CO-ORDS	366340E	5367700N	-207m ASL
ORIENTATION		AZIMUTH	INCLINATION
		300° AMG	-45°
SURVEY DATA	DEPTH	AZIMUTH	INCLINATION
	18.00m	286°AMG	-44°
	82.00m	292°AMG	-45°
EST. RECOVERY		93.64%	
LAB	Analabs	DPO Nos.	77223 & 77367

PROSPECT	North Cuni - Genet's Winze
TENEMENT	Meiba Flats EL 43/92
SHEET	Queenstown SK55-05
LOGGED BY	T Aravanis

DRILLERS	Tasmanian Diamond Drillers
RIG TYPE	Longyear 38
START	9 July 1994
COMPLETE	13 July 1994

OBJECT

DD94MF03 was drilled between the North Cuni and Genet's Winze workings, testing a structural target where the strike of the gabbro dykes and sediments swings from N/S to NE. DD94MF03 was to test the eastern "mineralised" gabbro and continue to the western "barren" gabbro. Old diamond drill hole MFP 130, collared 20m to the east (azimuth 270 deg AMG) intersected 3.05m @ 4.28% Ni, 2.65% Cu, 7.5% Zn and 3.1% Pb.

RESULT

A similar sequence of sediments noted in DD94MF02 was encountered. Although the eastern "mineralised" gabbro was not intersected, the western "barren" gabbro dyke was encountered as expected.

MINERALISATION

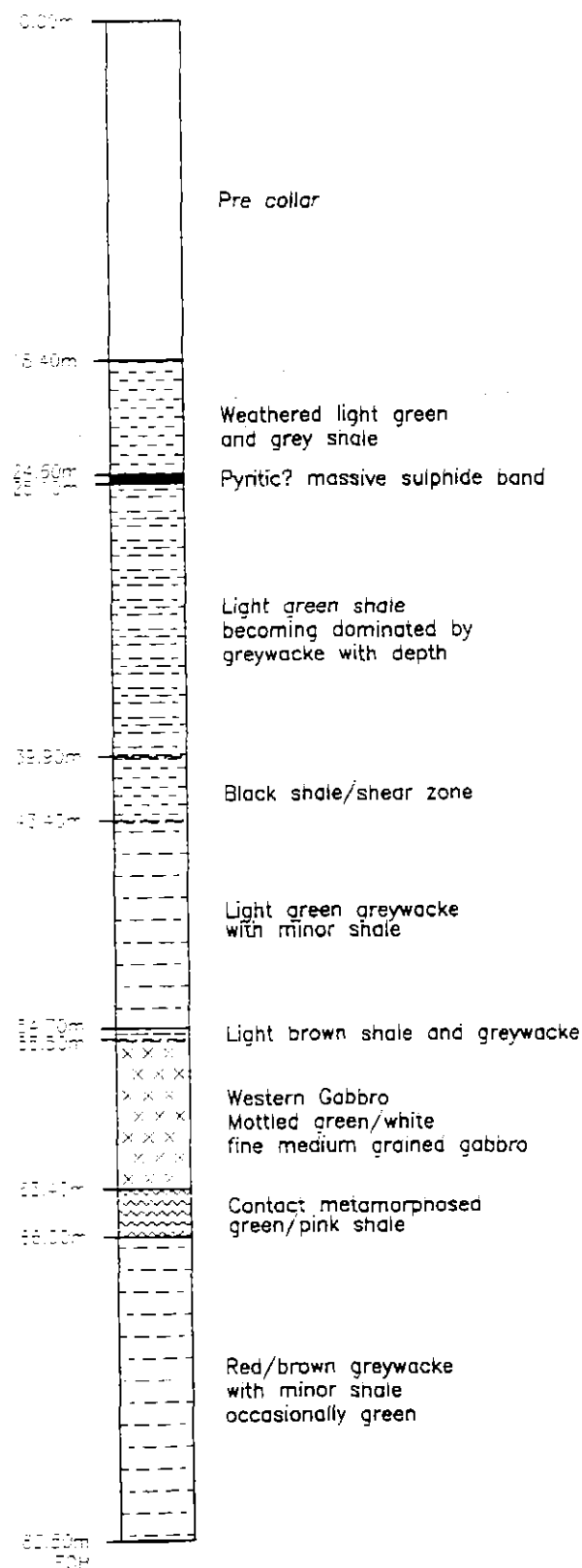
A 50cm band of pyritic? massive sulphide surrounded within sediments assayed 7.71% Ni, 2.91% Cu and 1154ppm Co.

The upper 1.55m of the western gabbro contained abundant carbonate veining with sphalerite and galena mineralisation. (0.45% Zn & 0.39% Pb). A similar association with carbonate veining was observed with the sediments immediately below the western gabbro. (2.6m @ 0.56% Zn)

DISCUSSION

Although the failure of DD94MF03 to intersect the eastern gabbro could be the result of the deep pre collar, offset due to fault is a more likely explanation.

The surprisingly high assays returned from the band of pyritic? massive sulphides is worthy of further investigation. A number of "pyritic lodes" and "pyritic black shale" were identified. (via EM & SP surveys and costeaning), through out the EL. A "pyritic lode" 20m to the west and parallel to the South Cuni Cu/Ni mineralisation is the most notable known pyritic zone. There is no record of these pyritic zones being assayed for Cu or Ni.



HOLE No.	DD94MF04	TOT DEPTH	75.00m
CO-ORDS	366360E	5367660N	~210m ASL
ORIENTATION		AZIMUTH	INCLINATION
		270° AMG	-45°
SURVEY	DEPTH	AZIMUTH	INCLINATION
DATA	75.00m	266°AMG	-43.5°
EST. RECOVERY		92.46%	

LAB	Analabs	DPO No.	77368

PROSPECT	North Cuni - Gener's Winze
TENEMENT	Meiba Flats EL 43/92
SHEET	Queenstown SK55-05
LOGGED BY	T Aravanis

DRILLERS	Tasmanian Diamond Drillers
RIG TYPE	Longyear 38
START	15 July 1994
COMPLETE	20 July 1994

OBJECT

DD94MF04 was drilled to test the North Cuni mineralisation beneath the north drive of the North Cuni workings and to compare Cu and Ni grades in previous diamond drill holes EM3 and MFP132. In addition, the hole was to test the "barren western gabbro" encountered in the last 15cm of MFP132.

RESULT

The hole intersected a sequence of sediments and gabbro similar to that encountered in DD94MF02 and MFP132. A six metre true width intersection of the mineralised gabbro was intersected including an 80cm interval of massive sulphide. The "barren western gabbro", (~ 5.5m wide) was found to be severely altered, probably due to carbonate veining.

MINERALISATION

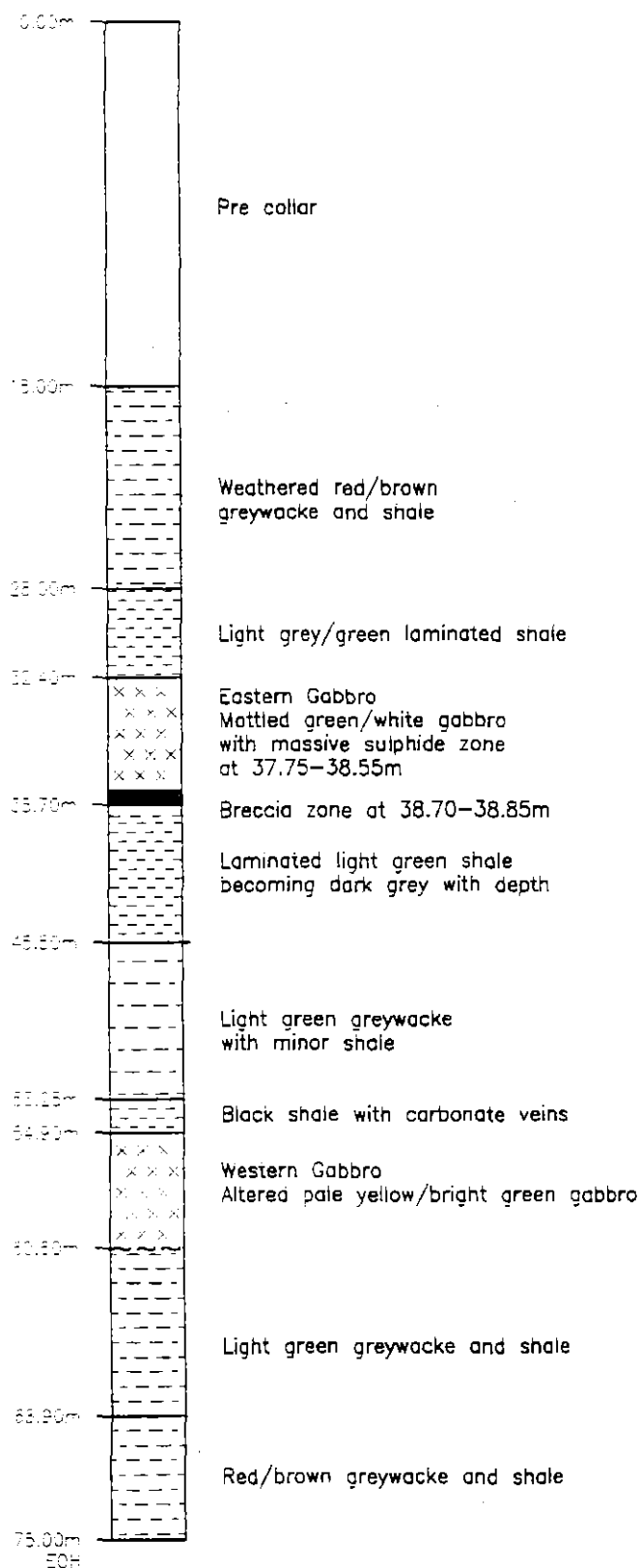
The upper gabbro contained trace disseminated sulphides, (mainly pyrite and chalcopyrite) increasing with depth to approximately 10%. The only disseminated sulphides of economic significance (0.47% Ni & 0.48% Cu), came from an 85cm interval immediately above the massive sulphide zone. The predominately chalcopyrite rich massive sulphide assayed 7.75% Ni and 10.30% Cu.

The lower or "western barren" gabbro contained trace chalcopyrite. Common sphalerite and galena mineralisation were associated with calcite veining (4.6m @ 0.59% Zn and 0.33% Pb).

A black shale unit with carbonate veining immediately above the lower gabbro dyke assayed 1.65m @ 2.29% Pb & 1.98% Zn.

DISCUSSION

Both EM3 and MFP132, drilled above and below the north drive respectively, intersected ~9.5m of gabbro which contained disseminated ore (EM3 - 4.6m @ 1.5% Ni & 1.5% Cu; MFP132 - 4.6 m @ 0.41% Ni & 0.56% Cu). DD94MF04 drilled between the previous holes, (~5m down dip from the drive), encountered 6.3m of gabbro, including the massive sulphide zone. The significance of massive sulphide mineralisation being intersected in a thinner portion of the dyke is not known.



HOLE No.	DD94MF05	TOT DEPTH	82.20m
CO-ORDS	366390E	5367450N	-200m ASL
ORIENTATION		AZIMUTH	INCLINATION
		270° AMG	-45°
SURVEY	DEPTH	AZIMUTH	INCLINATION
DATA	82.00m	269° AMG	-45.5°
EST. RECOVERY	97.90%		

LAB	Analabs	DPO No.	77369

PROSPECT	North Cuni - Genet's Winze
TENEMENT	Melba Flats EL 43/92
SHEET	Queenstown SK55-05
LOGGED BY	T Aravanis

DRILLERS	Tasmanian Diamond Drillers
RIG TYPE	Longyear 38
START	22 July 1994
COMPLETE	26 July 1994

OBJECT

DD94MF05 was drilled to test a weak EM conductor at 366350E 5367740N extending south from the North Cuni mine. In addition, the hole would be extended to encounter the "western barren" gabbro.

RESULT

The same sequence of sediments was intersected as in previous drilling. As well as the eastern gabbro, a 4m true width section of the "barren western dyke" mixed with contact metamorphosed sediments was encountered. A third gabbro approximately 2m wide with significant amounts of disseminated sulphides was intersected below the western gabbro.

MINERALISATION

The upper gabbro was found to contain trace amounts of chalcopyrite, pyrite and possibly pentlandite (6.6m @ 276ppm Ni). Rare sulphide blebs were observed near the bottom contact of the gabbro.

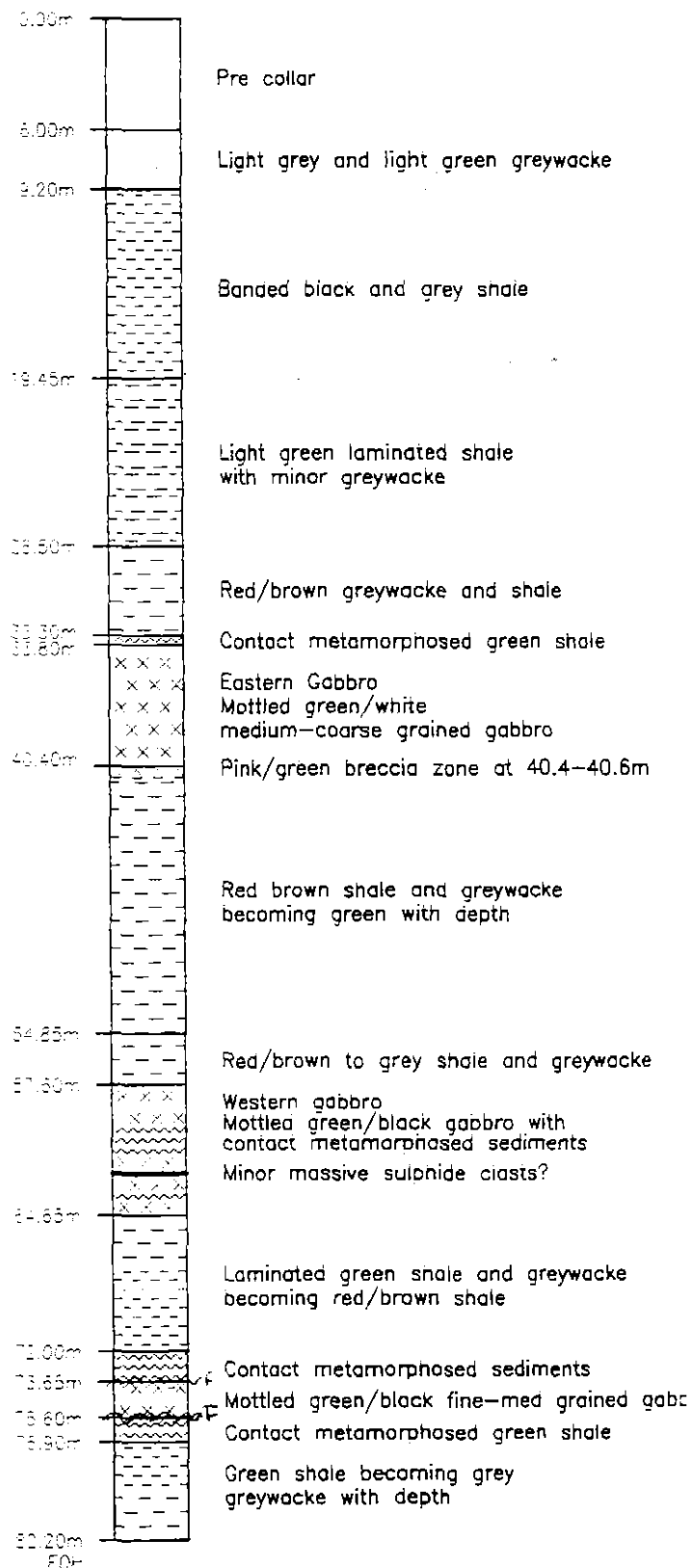
The second or "barren western gabbro" contained trace chalcopyrite and pyrite. A small massive sulphide clast? consisting mainly of finely laminated pyrite was encountered towards the bottom of the western gabbro (0.25m @ 0.26% Zn & 0.15% Pb). Minor sphalerite and galena mineralisation was observed in association with calcite veining through out the western gabbro.

Significant disseminated pyrite, chalcopyrite and pentlandite?, assaying 1.95m @ 0.44% Ni and 0.63% Cu, were observed in the lower gabbro.

DISCUSSION

Although no cause for the weak EM anomaly was observed in the hole it is proposed that minor massive mineralisation associated with the upper gabbro exists above the DD94MF05.

A sudden decrease in core axis to bedding angles below the second gabbro ("barren western dyke") suggest a possible thickening of the dyke beneath the DD94MF05 (i.e. below 366350E). Significant massive sulphide mineralisation associated with the thickening of the dyke may be an alternative explanation for the EM anomaly.



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DRILL-HOLE SUMMARY LOG

Figure 6

EL NAME: Melba Fats HOLE NAME: DD95MF06
EL NUMBER: EL 43/92 PROSPECT: Nickel Reward
DATE DRILLED: 22.2.1995
LOGGED BY: S. Maher

AMG EAST: 366307E GRID EAST: 366307E
AMG NORTH: 5365815 N GRID NORTH: 5365815 N
RL: 2 m TOTAL DEPTH: 22.3m
DEPTH AZIM. (MAG) INCLIN.
0m 234° -50°

OBJECTIVES OF HOLE:

To gain more detailed structural and stratigraphic information, plus information on the mineralisation style in the vicinity of the Nickel Reward shafts.
To repeat the intersection of M13 : 7.9m @ 10.0% Ni, 2.9% Cu.

LITHOLOGICAL SUMMARY:

DFROM	DTO	COMMENTS
0	3.50m	clay and transported gravel.
3.50	18.55m	weathered olive green volcanoclastic greywacke beds grading at top to laminated mudstone.
18.55	19.75m	olive green, medium grained gabbro.
19.75	22.30m	olive green and dark grey volcanoclastic greywacke beds grading at top to laminated mudstone.

MINERALISATION SUMMARY:

DFFROM	DTO	COMMENTS
9.90	18.55m	<1% disseminated pyrite in fine and coarser grained sedimentary rocks.
19.75	22.30m	" "
18.70	19.80m	Diorite had background levels of Ni (368ppm) and Cu (388ppm).

CONCLUSIONS:

MF06 did not intersect the massive sulphide sheet intersected in M13 because:

- MF06 is orientated sub parallel to the massive sulphide sheet which dips steeply to the NW.
- MF06 is located 10m NW of M13.

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Figure 7

DRILL-HOLE SUMMARY LOG

EL NAME: Melba Flats HOLE NAME: DD95MFO7
 EL NUMBER: EL 43/92 PROSPECT: Nickel Reward
 DATE DRILLED: 24.2.1995
 LOGGED BY: S. Maher

AMG EAST: 366293E GRID EAST: 366293E
 AMG NORTH: 5365800N GRID NORTH: 5365800N
 RL: 2.2m TOTAL DEPTH: 15.35m
 DEPTH AZIM. (MAG) INCLIN.
 0m 53' -52'

OBJECTIVES OF HOLE:

To gain more detailed structural and stratigraphic information, plus information on the mineralisation style in the vicinity of the Nickel Reward shafts.
 To repeat the intersection of MIS : 3.1m @ 5.7% Ni, 1.7% Cu.

LITHOLOGICAL SUMMARY:

FROM	TO	COMMENTS
0	15.35m	Olive green volcanoclastic greywacke beds grading at top to laminated mudstone. 15.35m

MINERALISATION SUMMARY:

FROM	TO	COMMENTS
0	15.35m	Trace pyrite in selvages of quartz veins and disseminations in fine and coarser grained sedimentary rocks.

CONCLUSIONS:

MFO7 did not intersect the massive sulphide sheet intersected in MIS because:

- MFO7 is orientated sub parallel to the sulphide sheet which dips steeply to the NW.
- MFO7 is located 4m NW of MIS.

MF01 was designed to test massive and disseminated Cu-Ni sulphide mineralisation within the hanging wall dolerite beneath the abandoned Genet's Winze mine, repeating diamond drill hole DD04. DD04 was drilled by the Mines Department in 1930 and intersected massive Cu-Ni sulphide (1.1 m @ 10.1% Ni and 5.5% Cu) and disseminated Cu-Ni sulphide (not assayed) hosted by the dolerite. MF02 was drilled below MF01 to test the continuity of mineralisation at depth, and to test a parallel dolerite sill described as barren by previous workers. Plans Tv 883 and 864 show sections with geology and geochemistry for MF01 and MF02.

MF01 intersected a sequence of interbedded shales and greywackes. A dolerite unit with disseminated chalcopyrite-pyrite-millerite-galena-sphalerite (Appendix IV - sample 3757221) was intersected between 38.70-48.50 m. Massive sulphide comprising chalcopyrite and supergene violerite-pyrite after pentlandite-pyrrhotite (Appendix IV - sample 3757223, 224) occurs near the base of this dolerite between 48.50-49.20 m, above a chilled dolerite margin (Appendix IV - samples 3757224, 225). The massive sulphide assayed 0.70 m @ 9.30% Ni and 4.50% Cu. Disseminated sulphide overlying the massive sulphide assayed 1.10 m 0.45% Ni and 0.60% Cu. The magnetic susceptibility of the massive sulphide was 4000×10^{-5} SI - indicating significant pyrrhotite.

MF02 intersected a sequence of interbedded shales and greywackes. Dolerite units were intersected between 42.65-48.00 m and 84.40-96.05 m. The "eastern dolerite" can be correlated with the dolerite intersected in MF01. Trace disseminated pyrite-chalcopyrite-pentlandite hosted by this dolerite assayed up to 429 ppm Ni and 95 ppm Cu. The "western dolerite" has undergone intense hydrothermal alteration (Appendix IV - sample 3757226) and hosts no sulphide mineralisation. Best assay was 403 ppm Ni and 88 ppm Cu.

Contact metamorphic textures in greywacke overlying the dolerite in MF01 (Appendix IV - samples 3757219, 220) indicate an intrusive emplacement.

The significant decrease in mineralisation in the "eastern dolerite" between MF01 and MF02 may represent localisation of mineralisation within the dolerite or the improper correlation of the MF01 dolerite and MF02 "eastern dolerite". In a "magmatic sulphide ponding" model, the observed thinning of the dolerite between MF01 and MF02 would contribute to localisation of mineralisation.

MF03 was drilled between the abandoned North Cuni and Genet's Winze mines. The stratigraphy changes strike from north to N-NE in this area. Diamond drill hole MFP110, collared 20 m east of MF03, intersected mixed dolerite and sandstone assaying 4.3% Ni, 2.65% Cu, 7.5% Zn and 3.1% Pb from sludge samples over a 3.1 m interval. This dolerite is probably correlatable with the "eastern dolerite" intersected in MF01 and MF02. Plan Tv 863 shows sections with geology and geochemistry for MF03.

MF03 intersected a sequence of interbedded shales, black shales, and greywackes interrupted by a graphitic shear zone. A dolerite unit was intersected between 55.50-63.40 m, and is correlatable with the "western dolerite" of MFP110. The dolerite was unmineralised and assayed 8.70 m @ 0.04% Ni and 0.01% Cu.

No cause for the weak EM response was observed in drill core. MF05 demonstrated that Cu-Ni mineralisation is hosted by sills other than the "eastern dolerite" which hosts all significant historic mineralisation.

Breccias and strain textures at the margins of some dolerite units (Appendix IV - samples 3757227, 228, 321) are probably the result of focussing of strain by competency differences between the Cunl stratigraphy and dolerite units. This may have resulted in the tectonic re-emplacement of some dolerite sills.

The interpreted geometry of dolerite units between drill holes indicates that they are roughly conformable with stratigraphy (Plans Tv 863, 880, 860). This is consistent with contacts observed in drill core - and is consistent with a sill geometry. Sills dip to the E & E-SE at 50-70°.

Chalcopyrite, pentlandite, pyrrhotite and millerite are the main relicts of the primary massive sulphide assemblage. Violerite and pyrite replace primary sulphides.

The greywacke-shale sequence has background ranges for Cu and Ni of 20-90 ppm and 60-110 ppm. Values for rocks adjacent the shale hosted massive sulphide intersected MF03 were up to 1368 ppm Cu and 1256 ppm Ni - suggesting minor disseminated sulphide is present about the massive sulphide. Values were also elevated in rocks from shear zones (up to 335 ppm Ni and 168 ppm Cu) and rocks adjacent gabbros (up to 304 ppm Cu).

Nickel Reward-Vaudeau Prospect Area

A scissor pair of diamond holes, DD95MF06 and MF07, were drilled within the **Nickel Reward-Vaudeau** prospect area for a total of 37.65 m with a hand operated diamond drilling system. Holes were designed to gain more detailed structural and stratigraphic information, plus information on the mineralisation style in the vicinity of the abandoned Nickel Reward mine. The location of drill holes in this area is shown on Plan Tv 945. A summary of this drilling is given in Figures 6 & 7.

MF06 was designed to repeat the intersection of drill hole M13: 7.9 m @ 10.0% Ni & 2.9% Cu, and was collared 11m W-NW of M13. Drilling intersected a volcanoclastic sandstone and laminated mudstone sequence, and dolerite intrusive between 18.70-19.8 m. A graphitic ?shear separates the chilled base of the dolerite from an undeformed volcanoclastic sandstone bed. The top 10 cm of the dolerite is very fine grained - ?chilled. Dolerite grainsize suggests intrusive emplacement at relatively shallow (cool) levels. Bedding was orientated 65 degrees to CLA.

MF07 was designed to repeat the intersection of drill hole M15: 8.1 m @ 5.7% Ni & 1.7% Cu, and was collared 4 m NW of M15. Drilling intersected a volcanoclastic sandstone and laminated mudstone sequence. Bedding is oriented 45 degrees to CLA.

Dolerite intersected in MF06 was submitted for geochemical analysis. A single half core sample was sent to Analabs where it was dried, crushed, pulverised and analysed for Ag Co Cr Cu Fe Ni Pb Zn Mn by GA140 (0.3 g aqua regia/perchloric acid digest- AAS). Assay results indicated background levels of Ni (368 ppm) and Cu (388 ppm). Detailed drill logs, geochemical sample ledgers and laboratory reports are included in Appendix III. Plan Tv 955 shows a sections with geology and geochemistry for MF06 and MF07.

A review of drilling data and maps showing shaft locations and mineralisation outcrop concluded: the massive sulphide sheet intersected in M13 and M15 dips very steeply to the NW. MF06 and MF07 did not intersect this sheet because they were collared 11 m NW of M13 and 4 m NW of M15 respectively. All drilling in the vicinity of the abandoned Nickel Reward mine, including MF06 and MF07, has been sub parallel to the interpreted mineralisation plane - consequently, the mineralisation has not been adequately tested.

9.10 Sampling of Previous Workers Drill Core

Diamond core from previous drilling of **Cuni** stratigraphy was examined at the ISMD core shed. Mineralised "eastern dolerite" intersected in drilling within the **North Cuni-Genet's Winze** prospect area (DDH M6, M8 and M9 - Montana Silver Lead 1955,56) was selectively sampled for geochemical analysis. Six half-core samples were sent to Analabs where they were dried, crushed, pulverised and analysed for Ag Co Cr Cu Fe Ni Pb Zn Mn by GA140 (0.3 g aqua regia digest- AAS). Detailed drill logs, geochemical sample ledgers and laboratory reports are included in Appendix III. Cu-Ni assays were background.

Additionally, core from drilling in the vicinity of Lead Blocks (DDH CG1 and CG2 - CSR 1980), which intersected dolerite-gabbro sills with disseminated pyrrhotite, was inspected. The best intersection from CSR sampling was 2.55 m @ 360 ppm Ni and 175 ppm Cu (CG2). Although assays were disappointing, the drill core demonstrated the potential for additional dolerite sills within the **Cuni** stratigraphy.

9.11 Petrology and Dolerite Geochemistry

Five rock chip samples submitted for geochemical analysis were also submitted for petrological description. In addition, 21 drill core samples from DD94MF01-05 (CRAE) and CG02 (CSR) were submitted for petrological description. All samples were sent to Martin Gole and Associates. Petrological descriptions are included in Appendix IV.

Martin Gole concluded magmatic textured sulphides were not present/preserved. Chalcopyrite, pentlandite, pyrrhotite and millerite are the main relicts of the primary massive sulphide assemblage. Violerite and pyrite are supergene products formed by weathering of primary sulphides.

Tony Crawford (University of Tasmania) - was approached to undertake a detailed investigation of the affinities of the mafic rocks which host the massive Cu-Ni sulphide mineralisation at Melba Flats. An interim report on this work is included in Appendix IV. As a component of this work, six unmineralised core samples of mafic host rock were submitted for full wholerock geochemical analysis. Samples were sent to Analabs where they were dried, crushed, pulverised and analysed for Al₂O₃ SiO₂ TiO₂ Fe₂O₃ MnO CaO K₂O MgO P₂O₅ Na₂O by OX408 (glass fusion - XRF), Ba Rb Cs Sr Zr by GX401 (XRF), and La Ce Nd Sm Eu Tb Ho Yb Lu Hf Ta Th by Neutron Activation Analysis. Geochemical sample ledgers and laboratory reports are included in Appendix IV.

Tony Crawford concluded the intrusive hornblende dolerites and hornblende microgabbros are probably correlatable with the mafic rocks of the Henty Dyke Swarm and the Henty Fault Wedge. These rocks are associated with extension related tholeiitic magmatism late in the history of the Mount Reid Volcanics magmatic event. Parental magmas were hydrous which is incompatible with significant magmatic sulphide formation.

Tony Crawford is supervising Phillip Greenhill who is undertaking an honours field-laboratory project investigating the affinities of the Cuni stratigraphy and origin of the Cu-Ni mineralisation within the Melba Flats licence area. CRAE is providing basic support to Phillip during the course of this project.

10. ENVIRONMENT AND REHABILITATION

All drill sites and access tracks were rehabilitated at the completion of drilling. Additionally, the Vaudeau - North Cuni track was repaired.

6.2 km of line cutting was undertaken in 1995. Inspection of 1994 gridlines indicated cut line are rehabilitating quickly. 1.0x0.8x0.3 m pits spaced at 50 m intervals along four gridlines were refilled on completion of the IP survey. Auger holes from soil sampling were refilled at the time sampling.

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KEYWORDS

Cambrian, Copper, Nickel, PGE, Gold, Soil Sampling, Rock Geochemistry, Soil Analysis, Petrology, Airborne Geophysics, Magnetics, Ground EM Survey, Ground IP Survey, Ground Magnetic Survey, Aerial Magnetic Survey, Aerial Radioactivity Survey, Disseminated, Massive, Dolerite, Diamond Drilling.

LOCATION

Queenstown	SK55-05	1:250,000
Pieman	7914	1:100,000
Zeehan	7914-S	1:50,000
Dundas	3636	1:25,000

LIST OF DPOs

77358-61, 77363-375, 77223, 77231, 77233.

LIST OF PLANS

<u>Plan No.</u>	<u>Title</u>	<u>Scale</u>
Tv 675	Melba Flats EL 43/92 Location Plan	1:100,000
Tv 680	Melba Flats EL 43/92 Geology Map	1:10,000
Tv 678	Melba Flats EL 43/92 Nickel Reward - Vaudeau Grid Ground Magnetic Stacked Profiles	1:2,500
Tv 954	Melba Flats EL 43/92 Cuni Culture Plan	1:2,500
Tv 950	Melba Flats EL 43/92 Rock Chip Sample Location Plan	1:10,000
Tv 951	Melba Flats EL 43/92 Cuni Rock Chip Sample Location Plan	1:2,500
Tv 946	Melba Flats EL 43/92 Cuni Soil and Wacker Sample Locations	1:2,500
Tv 947	Melba Flats EL 43/92 Cuni Soil Geochemistry Ni ppm	1:2,500

Tv 948	Melba Flats EL 43/92 Cuni Soil Geochemistry Cu ppm	1:2,500
Tv 784 to Tv 843	Melba Flats EL 43/92 PROTEM Fixed Transmitter Survey	1:5,000
Tv 952	Melba Flats EL 43/92 North Cuni - Genet's Winze Grid PROTEM Interpretation	1:2,500
Tv 679	Melba Flats EL 43/92 North Cuni - Genet's Winze Grid Ground Magnetic Stacked Profiles	1:2,500
Tv 953	Melba Flats EL 43/92 North Cuni - Genet's Winze Prospect Drill Hole Location Plan	1:1,000
Tv 883	Melba Flats EL 43/92 North Cuni - Genet's Winze Prospect DD94MF01 & MF02 Geological Interpretation	1:250
Tv 864	Melba Flats EL 43/92 North Cuni - Genet's Winze Prospect DD94MF01 & MF02 Ni and Cu Assays	1:250
Tv 863	Melba Flats EL 43/92 North Cuni - Genet's Winze Prospect DD94MF03	1:250
Tv 860	Melba Flats EL 43/92 North Cuni - Genet's Winze Prospect Section 5367650N Composite Plan	1:250
Tv 861	Melba Flats EL 43/92 North Cuni - Genet's Winze Prospect Section 5367650N Ni and Cu Assays	1:250
Tv 862	Melba Flats EL 43/92 North Cuni - Genet's Winze Prospect Section 5367450N Composite Plan	1:250
Tv 945	Melba Flats EL 43/92 Nickel Reward Drill Hole Location Plan	1:250
Tv 955	Melba Flats EL 43/92 Nickel Reward MF06 and MF07 Drill Section Compilation Plan	1:250

LIST OF FIGURES

Figure 1	DD94MF01	Summary log
Figure 2	DD94MF02	Summary log
Figure 3	DD94MF03	Summary log
Figure 4	DD94MF04	Summary log
Figure 5	DD94MF05	Summary log
Figure 6	DD94MF06	Summary log
Figure 7	DD94MF07	Summary log

LIST OF APPENDICES

APPENDIX I	ROCK CHIP GEOCHEMISTRY SAMPLE LEDGER AND LABORATORY REPORTS
APPENDIX II	SOIL GEOCHEMISTRY SAMPLE LEDGER AND LABORATORY REPORTS
APPENDIX III	DRILL HOLE LOGS, GEOCHEMICAL SAMPLE LEDGER, AND LABORATORY REPORTS
APPENDIX IV	PETROLOGICAL REPORTS, PETROGRAPHIC AND GEOCHEMICAL INTERIM REPORT, AND WHOLE ROCK ANALYSIS GEOCHEMICAL SAMPLE LEDGER AND LABORATORY REPORTS

MELBA FLATS EL 43/92

LOCATION PLAN

Ref.: SK55-5

Scale: 1:100 000

Author: T. Aravanis

Report No.: 19636

Drawn: A. Jelen MAR'94

Plan No.: Tv 675

95-3729

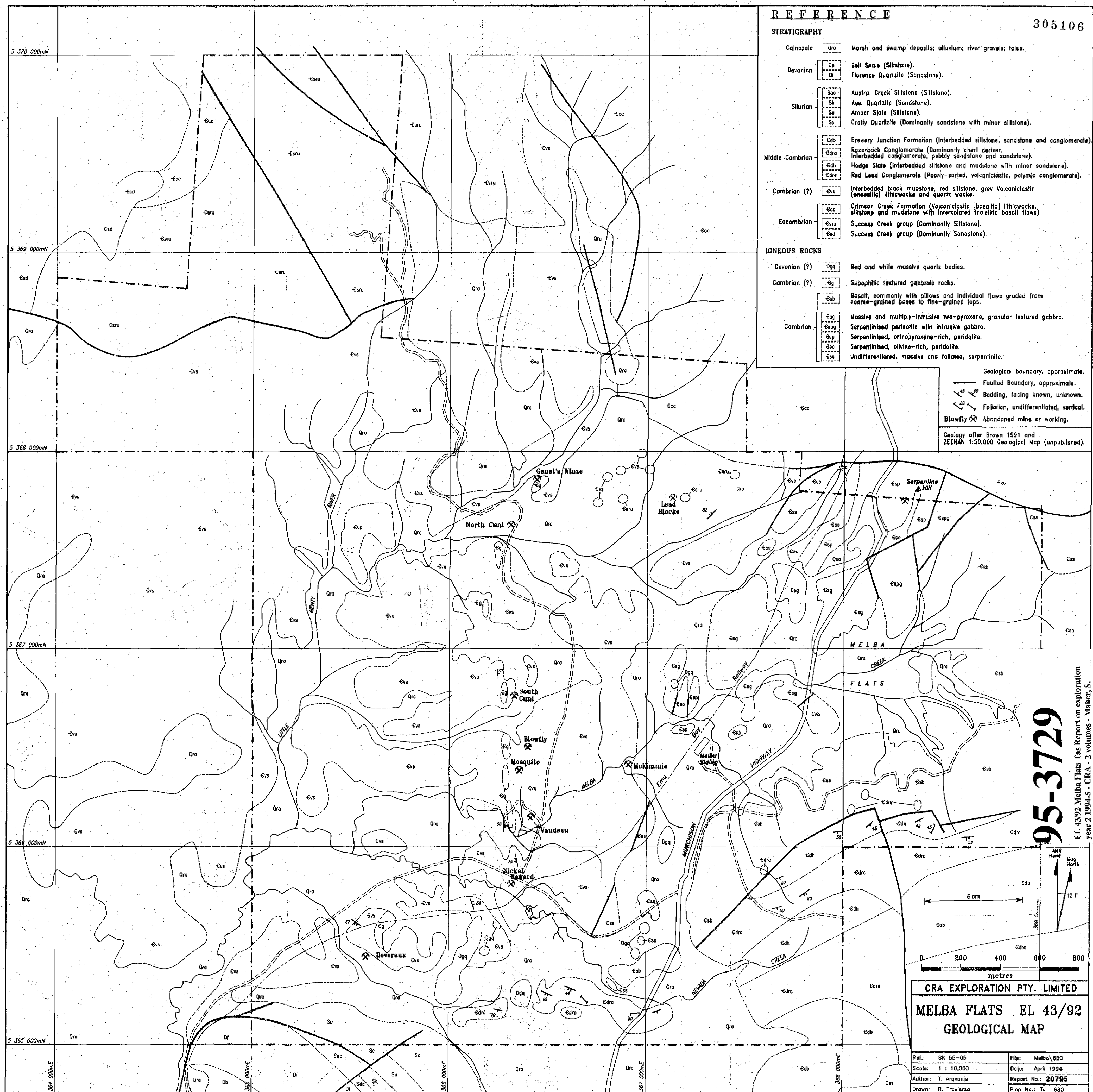
**EL 43/92 Melba Flats Tas Report on exploration
year 2 1994-5 - CRA - 2 volumes - Maher, S.**

Calozoic	Qra	Marsh and swamp deposits; alluvium; river gravels; talus.
Devonian	Db	Beil Shale (Siltstone).
	Df	Florence Quartzite (Sandstone).
Silurian	Sac	Austral Creek Siltstone (Siltstone).
	Sk	Keel Quartzite (Sandstone).
	Se	Amber Slate (Siltstone).
	Sc	Cratly Quartzite (Dominantly sandstone with minor siltstone).
Middle Cambrian	Edb	Brewery Junction Formation (Interbedded siltstone, sandstone and conglomerate).
	Edra	Razorback Conglomerate (Dominantly chert derived, interbedded conglomerates, pebbly sandstone and sandstone).
	Egh	Hodge Slate (Interbedded siltstone and mudstone with minor sandstone).
	Edre	Red Lead Conglomerate (Poorly-sorted, volcanoclastic, polyminic conglomerate).
Cambrian (?)	Eva	Interbedded black mudstone, red siltstone, grey Volcanoclastic (andesitic) lithic wackes and quartz wackes.
	Ecc	Crimson Creek Formation (Volcanoclastic (basaltic) lithic wackes, siltstone and mudstone with intercalated trachytic basalt flows).
Eocambrian	Esr	Success Creek group (Dominantly Siltstone).
	Esd	Success Creek group (Dominantly Sandstone).
	Eed	Success Creek group (Dominantly Sandstone).

Devonian (?)	Dgq	Red and white massive quartz bodies.
Cambrian (?)	Gg	Subophitic textured gabbroic rocks.
	Cab	Basalt, commonly with pillows and individual flows graded from coarse-grained bases to fine-grained tops.
Cambrian	Gsg	Massive and multiply-intrusive two-pyroxene, granular textured gabbro.
	capg	Serpentinised peridotite with intrusive gabbro.
	Gsp	Serpentinised, orthopyroxene-rich, peridotite.
	Gso	Serpentinised, olivine-rich, peridotite.
	Gsa	Undifferentiated, massive and foliated, serpentinite.

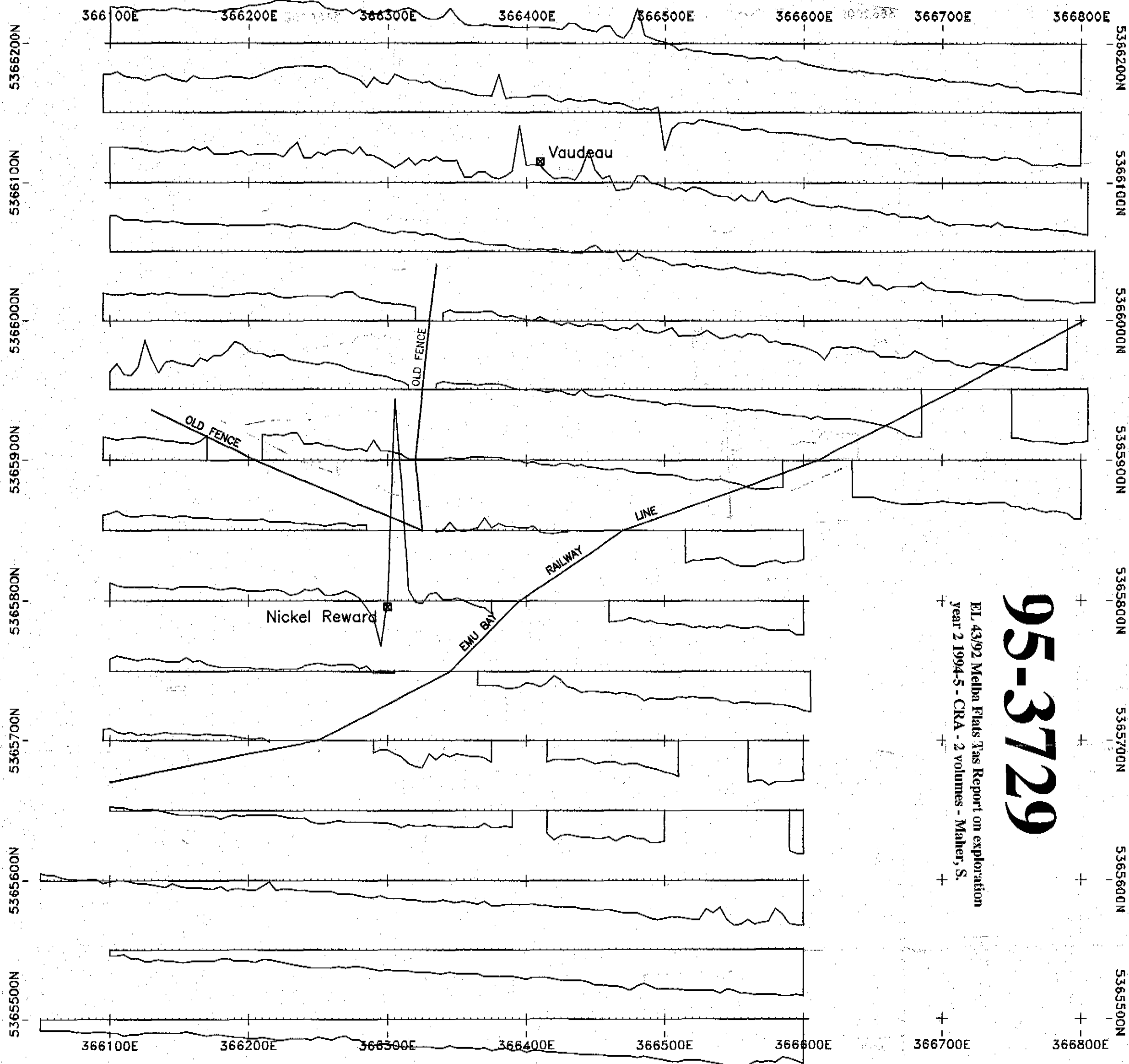
----- Geological boundary, approximate.
 ————— Faulted Boundary, approximate.
 Bedding, facing known, unknown.
 Foliation, undifferentiated, vertical.
 Blowfly  Abandoned mine or working.

Geology after Brown 1991 and
ZEEHAN 1:50,000 Geological Map (unpublished).



95-3729

**EL 43/92 Melba Flats Tas Report on exploration
year 2 1994-5 - CRA - 2 volumes - Maher, S.**



EL 43/92 Melba Flats Tas Report on exploration
year 2 1994-5 - CRA - 2 volumes - Maher, S.

95-3729

305105

CRA EXPLORATION PTY. LIMITED		
MELBA FLATS EL 43/92		
NICKEL REWARD - VAUDEAU		
GROUND MAGNETIC STACKED PROFILES		
QUEENSTOWN SK55-05		
GEO: S. Maher	SCALE: 1:2500	REPORT: 20795
DRAWN: T.S.	DATE: May '95	PLAN: Tv 678

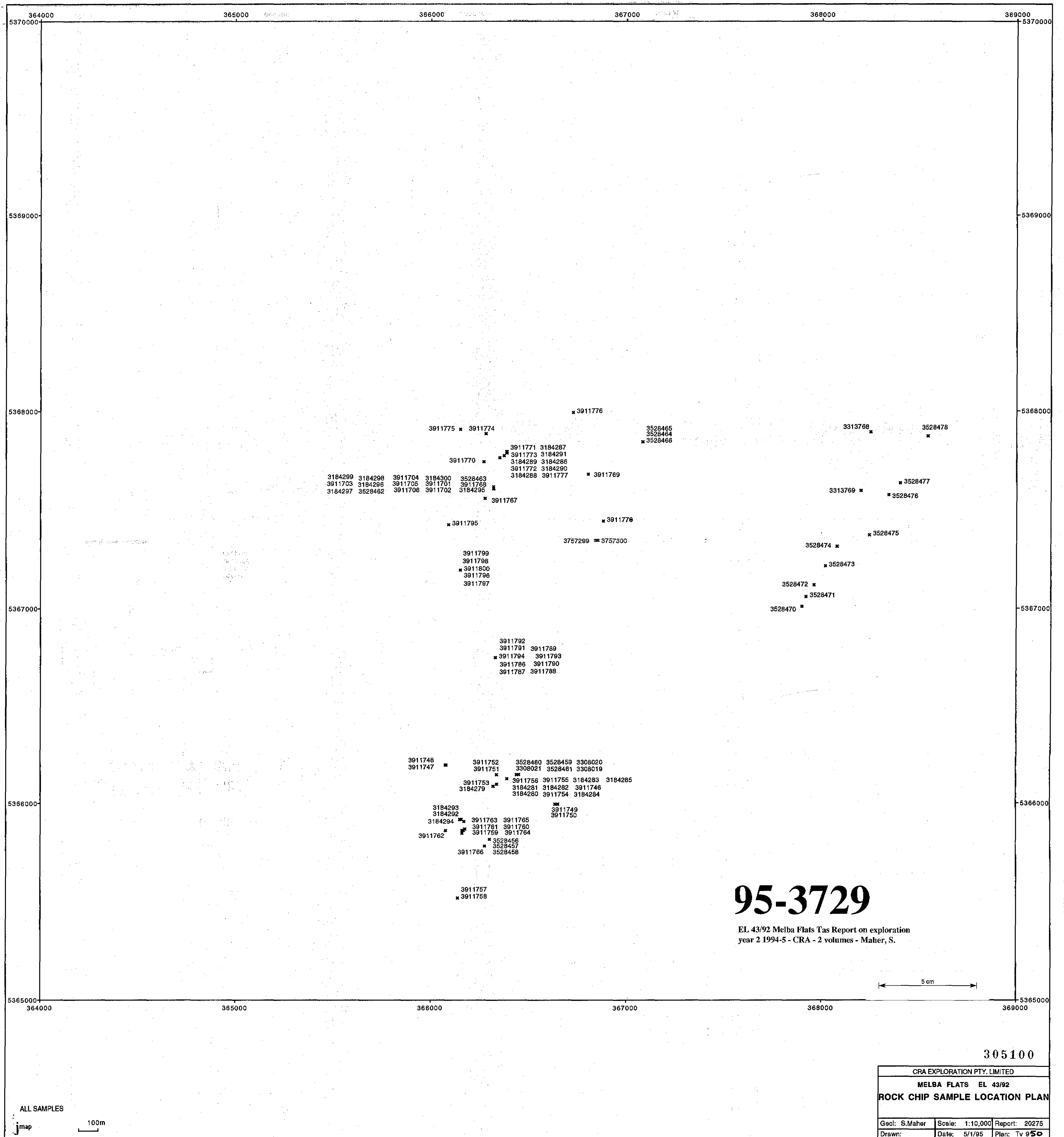
MAG N

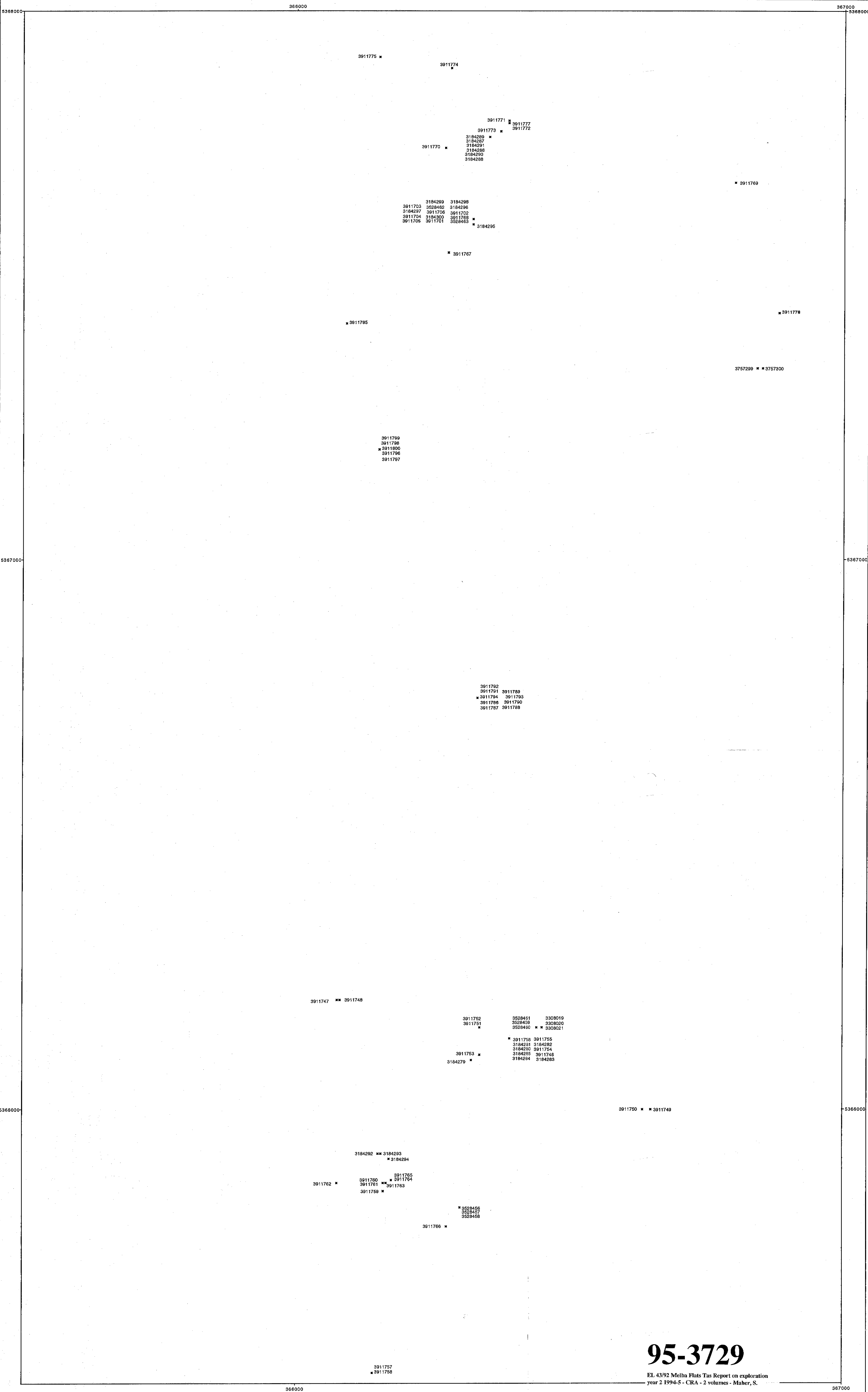
MAG North = 12° AMG

☒ Shaft
Base Level: 62225 nT
Vertical Scale: 75 nT/cm

Scale 1:2500

50 0 50 100
(meters)





95-3729

EL 43/92 Melba Flats Tas Report on exploration
year 2 1994-S - CRA - 2 volumes - Maher, S.

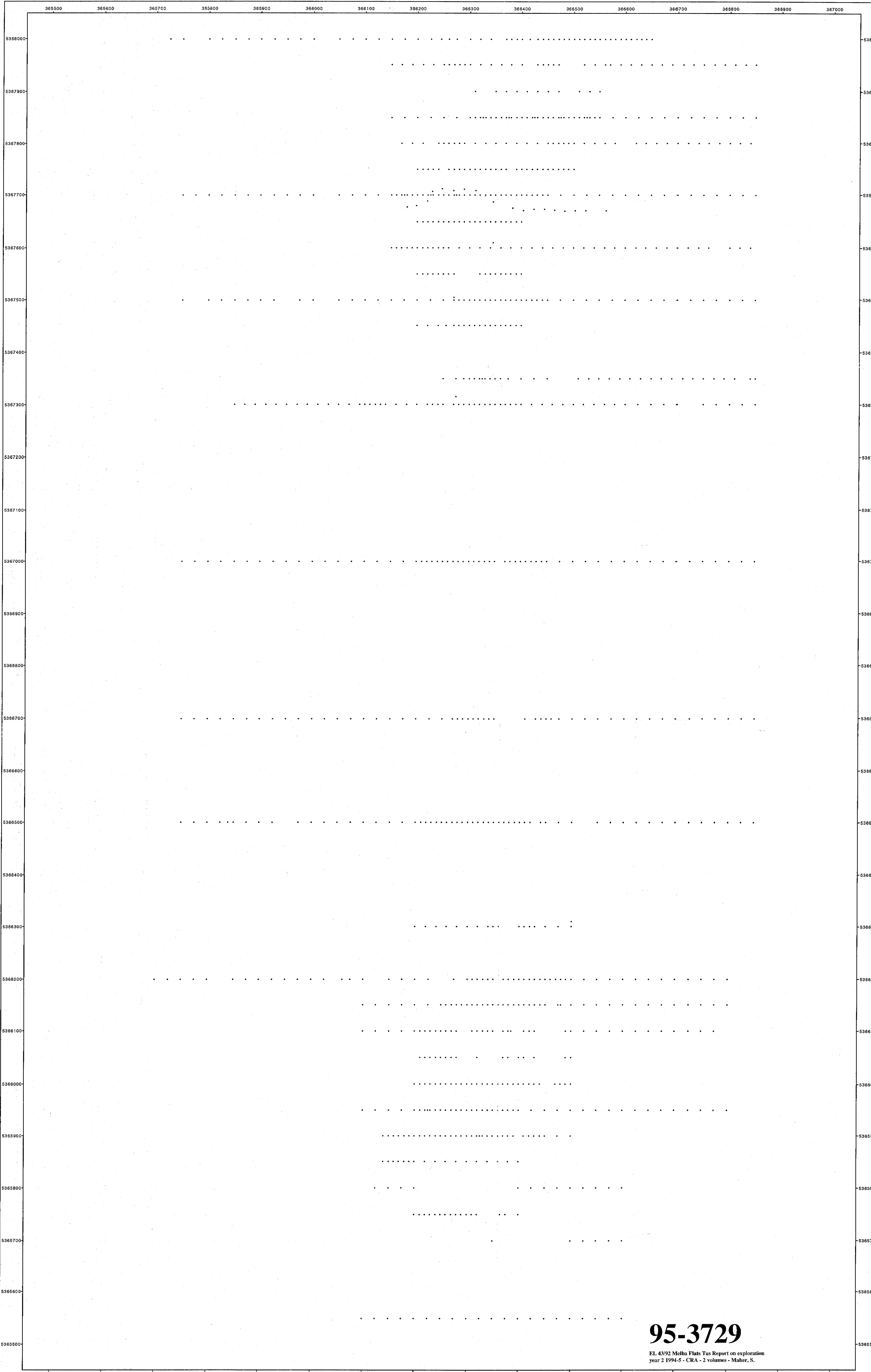
6 cm

ALL SAMPLES

map 10m

305101

CRA EXPLORATION PTY LIMITED			
MELBA FLATS EL 43/92			
ROCK CHIP SAMPLE LOCATION PLAN			
Geol: S.Maher	Scale: 1:2,500	Report: 20.795	
Drawn:	Date: 8/1/95	Plan: 1v 5 of 1	



95-3729

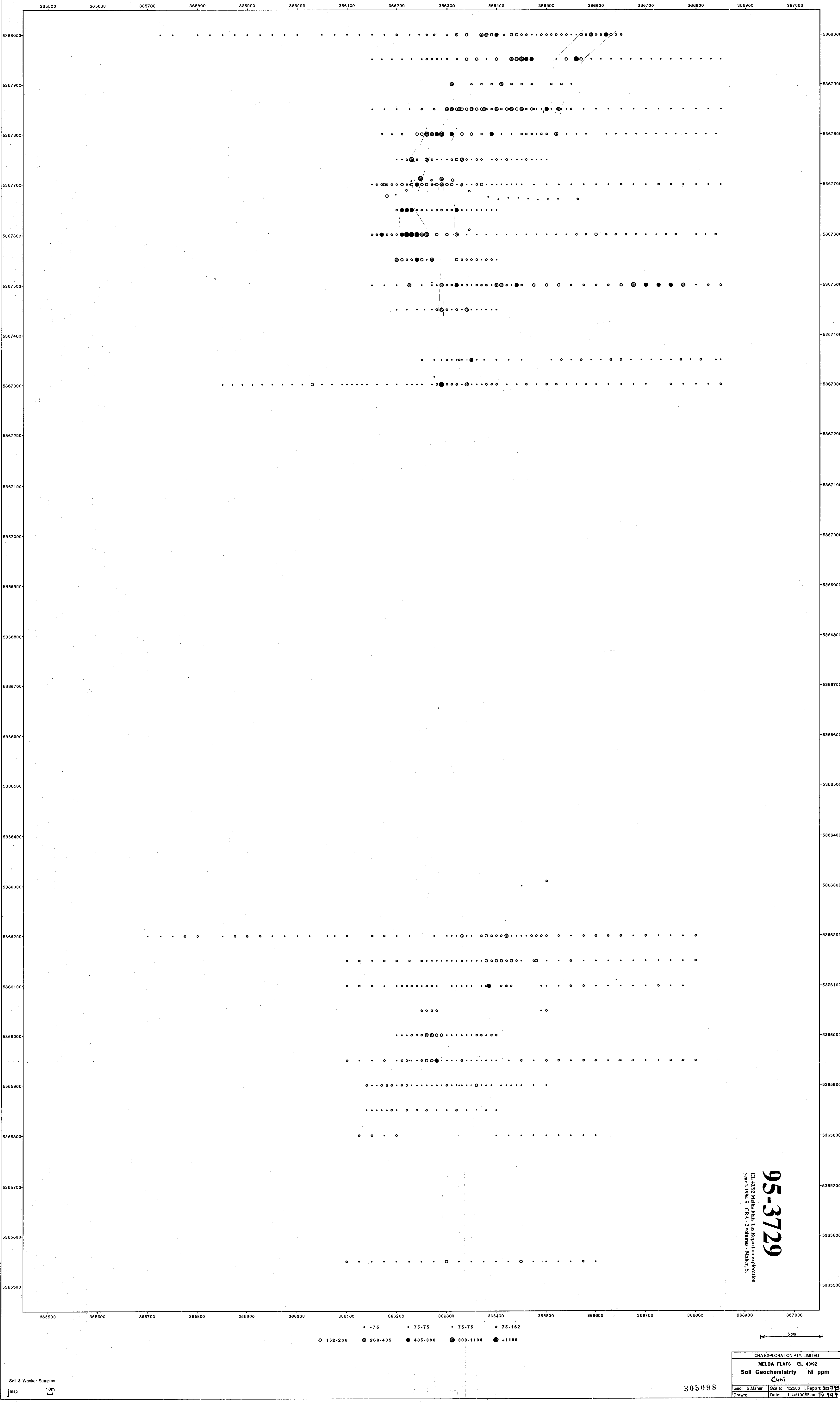
EL 43/92 Melba Flats Tas Report on exploration
year 2 1994-5 - CRA - 2 volumes - Maher, S.

8 cm

jmap 10m

305097

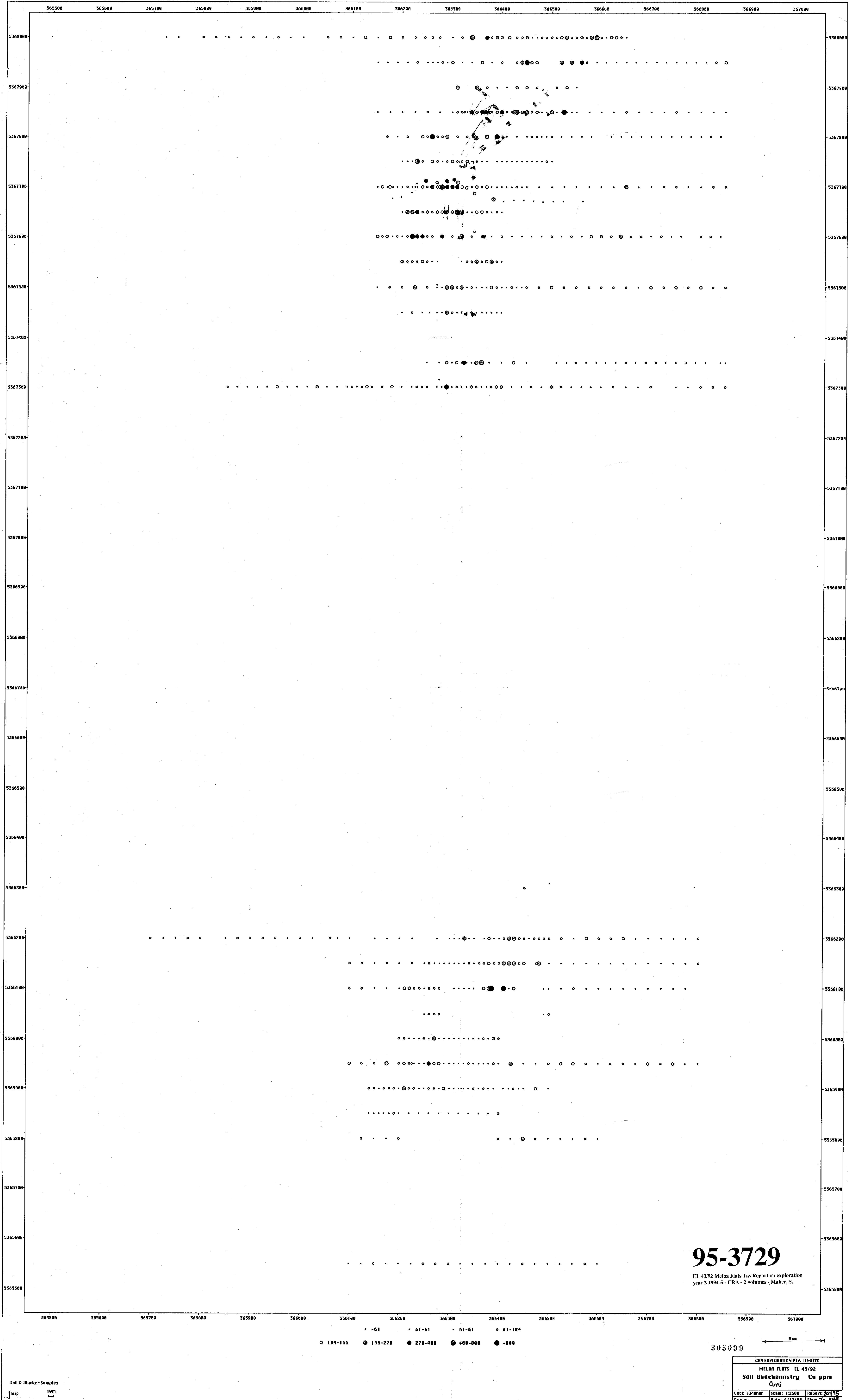
CRA EXPLORATION PTY. LIMITED			
MELBA FLATS EL 43/92			
SOIL & WACKER SAMPLE LOCATIONS			
Cun.			
Geol: S.Maher	Scale: 1:2500	Report: 20115	
Drawn:	Date: 4/12/95	Plan: TV 94-6	



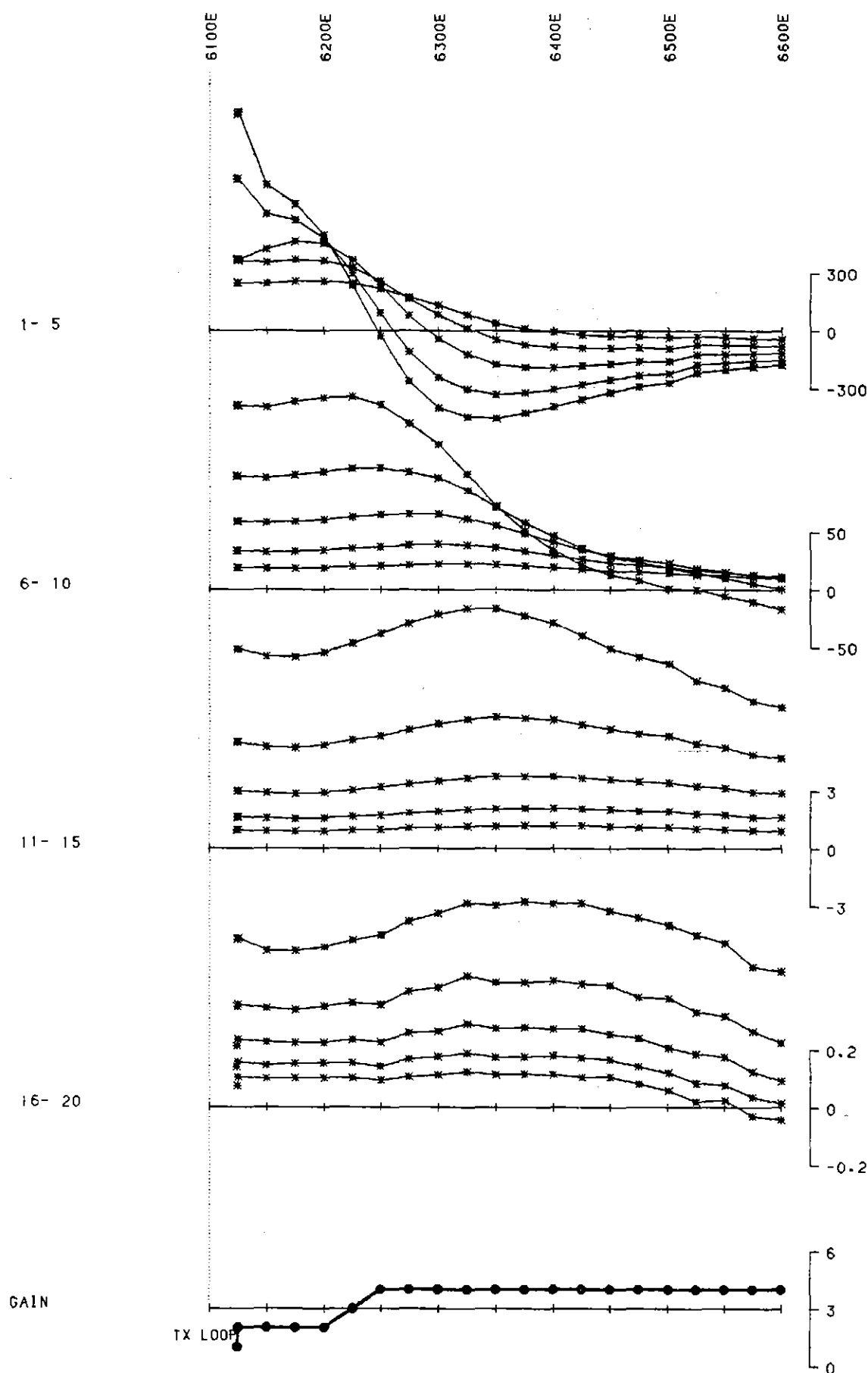
Soil & Wacker Samples
map 10m

305098

CRA EXPLORATION PTY. LIMITED		
MELBA FLATS EL 43/92		
Soil Geochemistry NI ppm		
CRA		
Geol: S Maher	Scale: 1:2500	Report: 20915
Drawn:	Date: 11/4/1998	Plan: TV 147



VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700M X 400M
 TX TURN OFF TIME : 282 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.5 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 10/03/1994

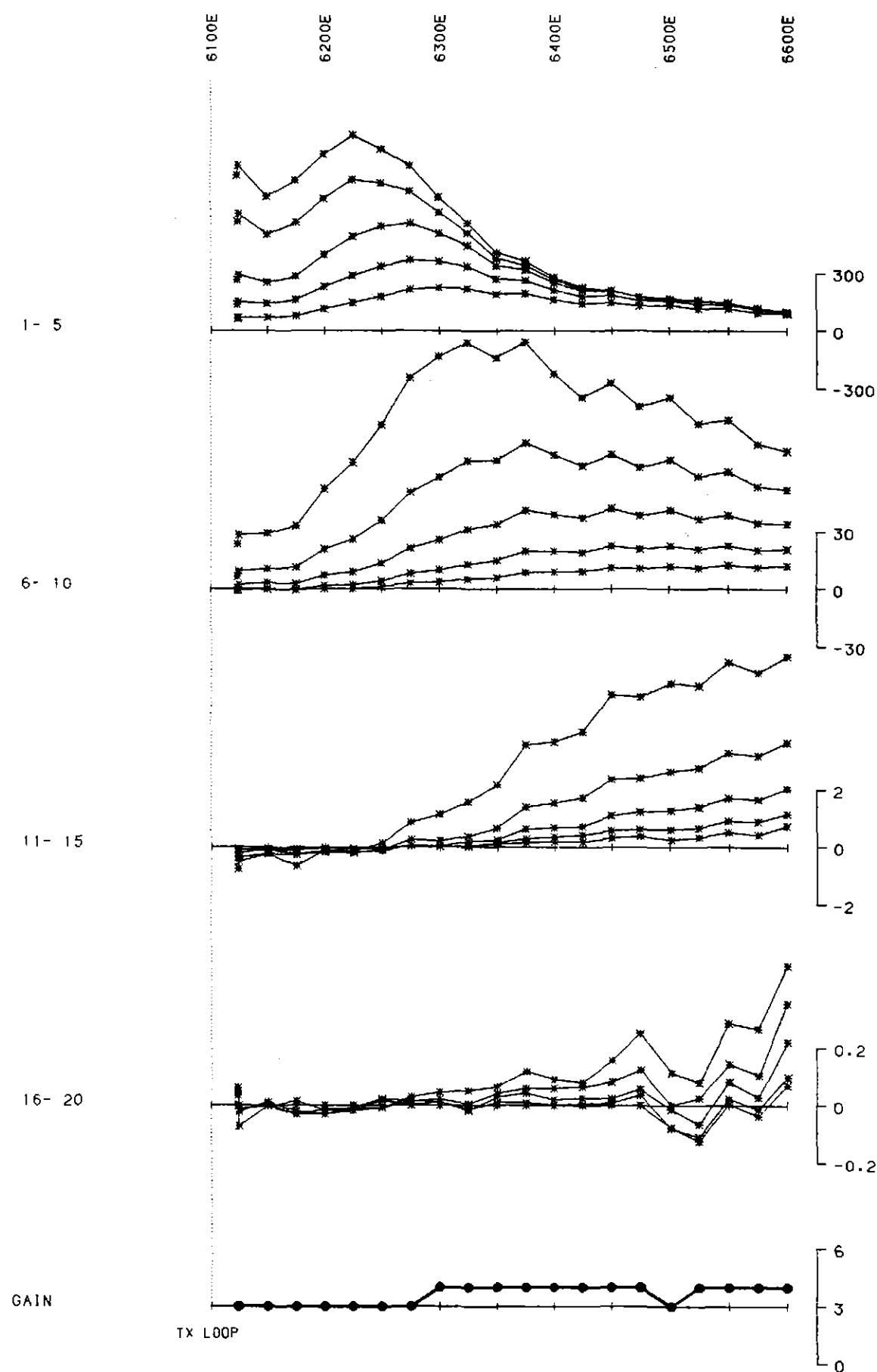
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 5500N Z

TX LOOP : 1
 Report No.: 20795 TV 784

305037

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700M X 400M
 TX TURN OFF TIME : 282 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.5 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 10/03/1994

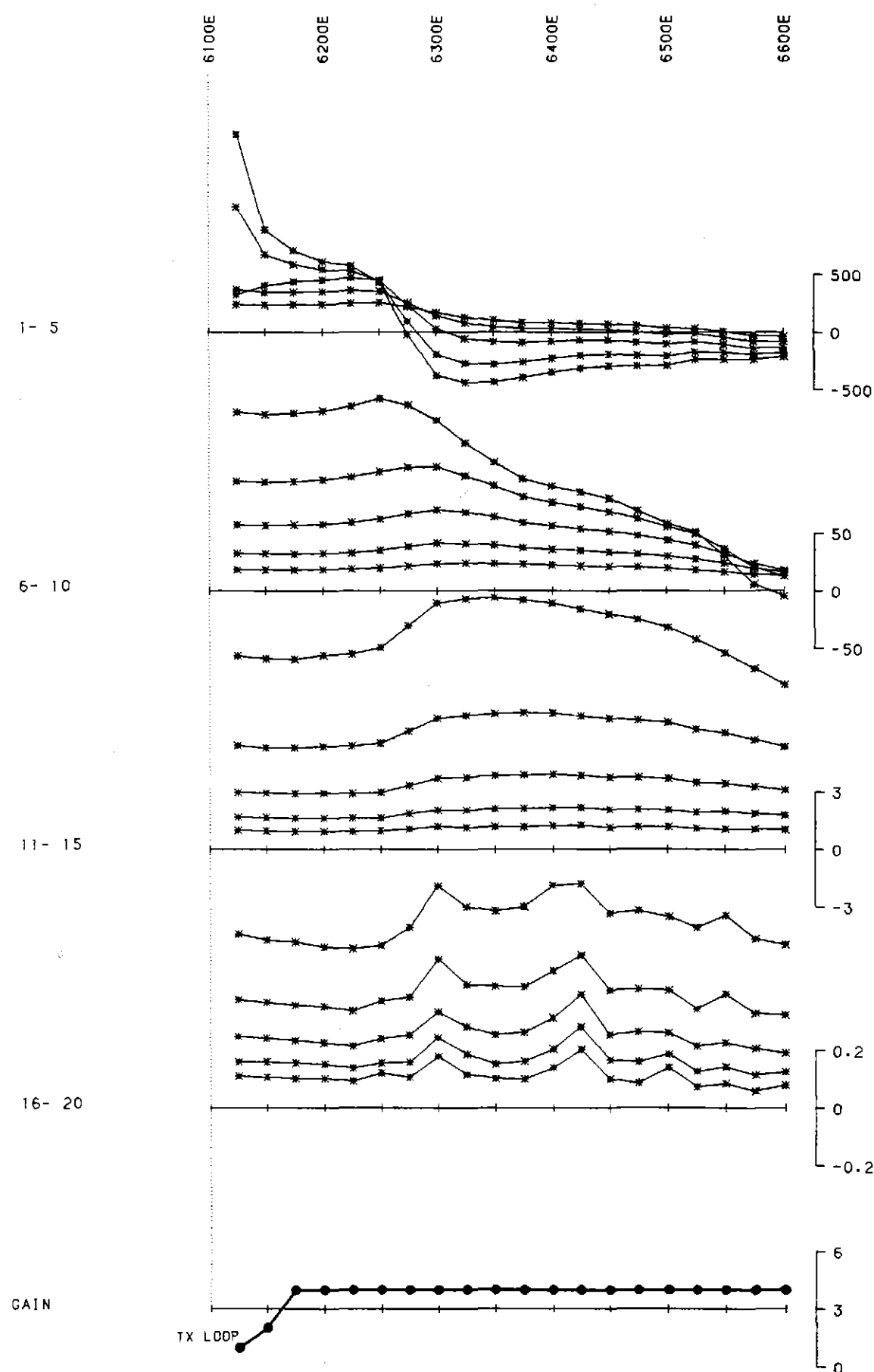
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 5500N X
 TX LOOP : 1

Report No.: 20795

TV 785

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E

TX LOOP SIZE : 700M X 400M

TX TURN OFF TIME : 282 MICROSECS.

FIRST GATE TIME : 88.

CURRENT : 15.5 AMPS

FREQUENCY : 25 HZ.

INTEGRATION TIME : 2048 CYCLES

SYNC MODE : CRYSTAL

HORIZONTAL SCALE : 1: 5000

SURVEYED BY : DMA

DATE : 10/03/1994

SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration

PROJECT : MELBA FLATS EL43/92

AREA : NICKEL REWARD-VAUDEAU

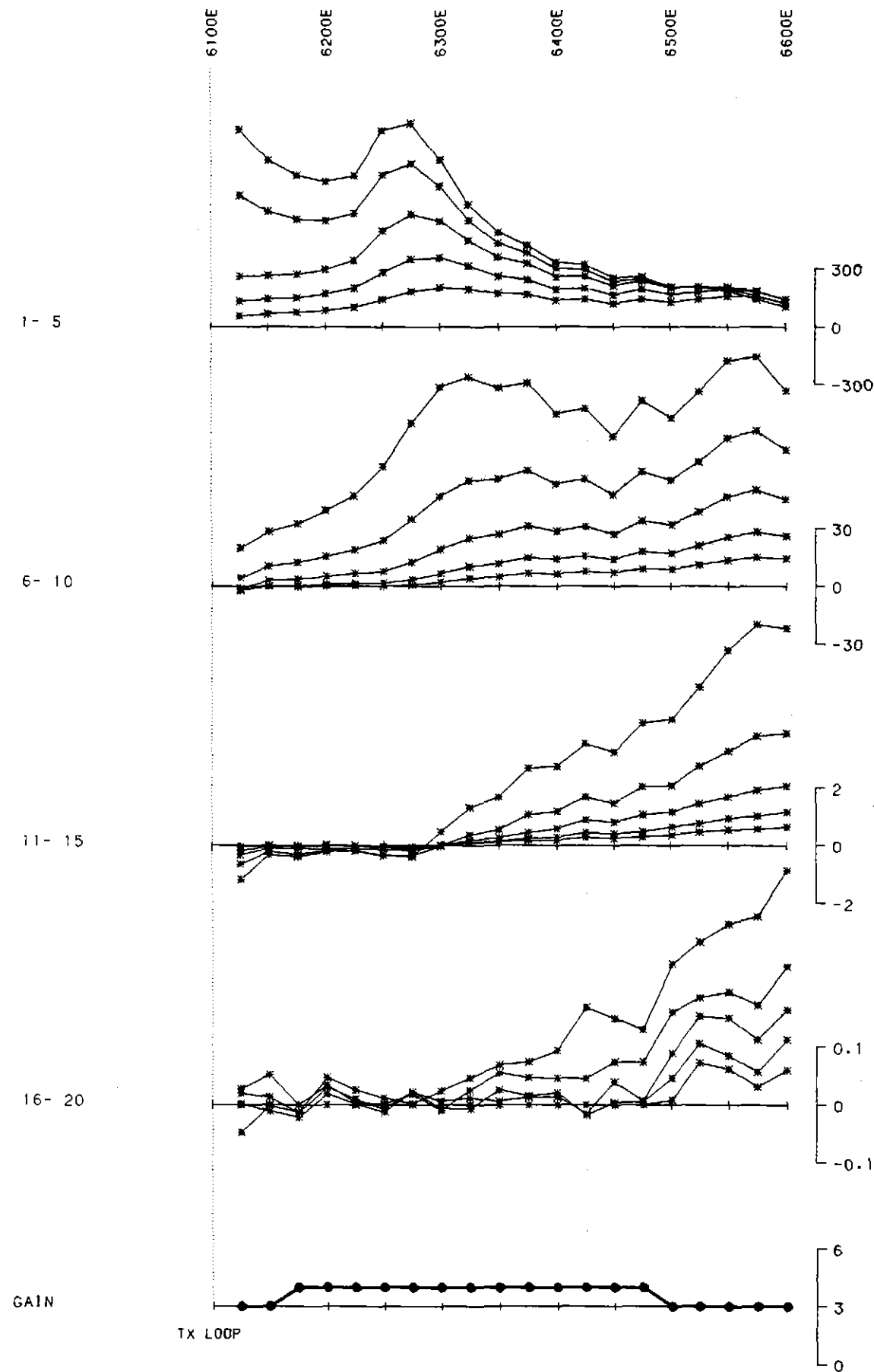
LINE : 5550N Z

TX LOOP : 1

Report No.: 20795

TV 786

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700M X 400M
 TX TURN OFF TIME : 282 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.5 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 10/03/1994

SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 5550N X

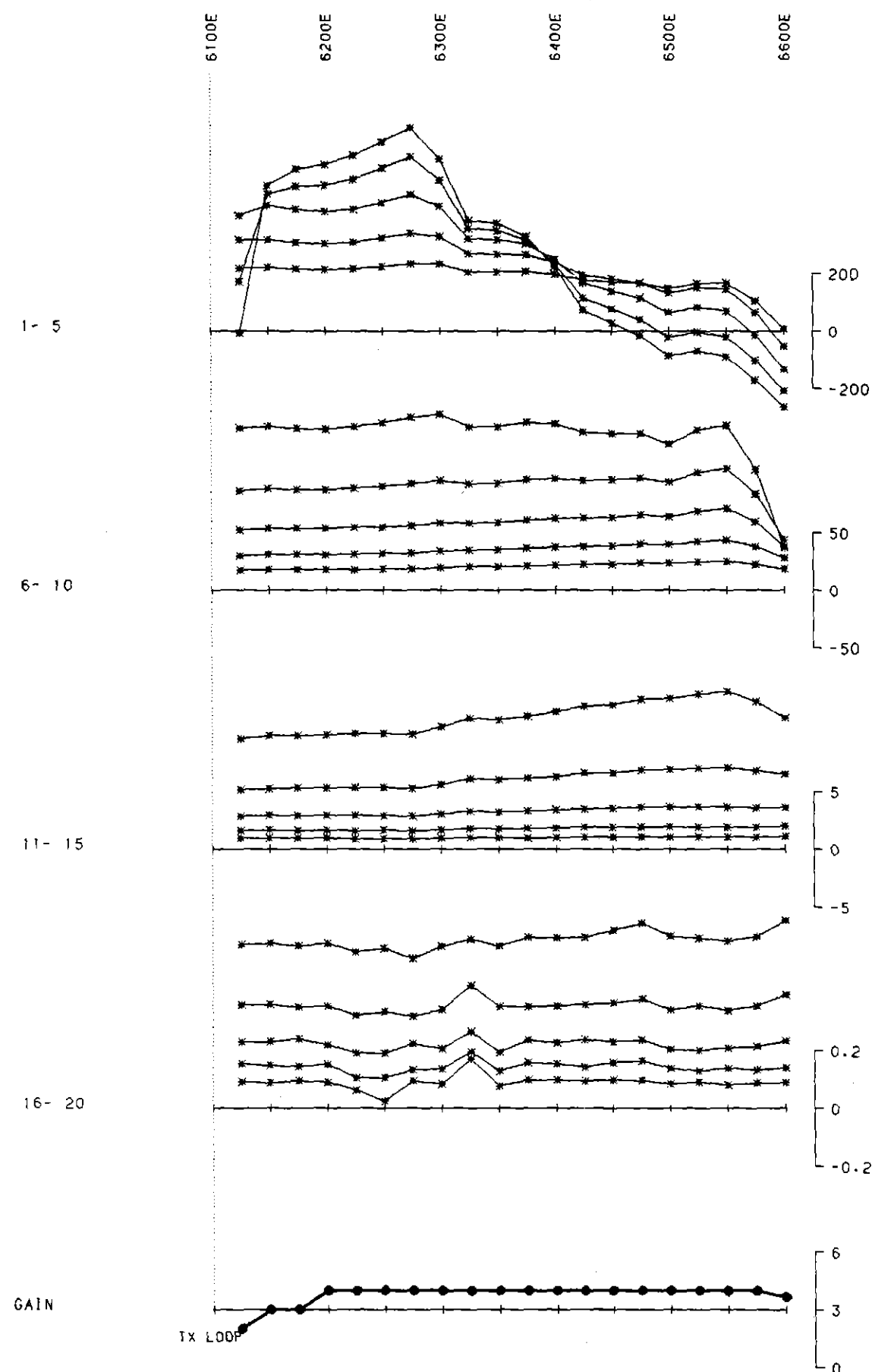
TX LOOP : 1

Report No.: 20796

TV 787

305040

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700M X 400M
 TX TURN OFF TIME : 280 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.5 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 13/03/1994

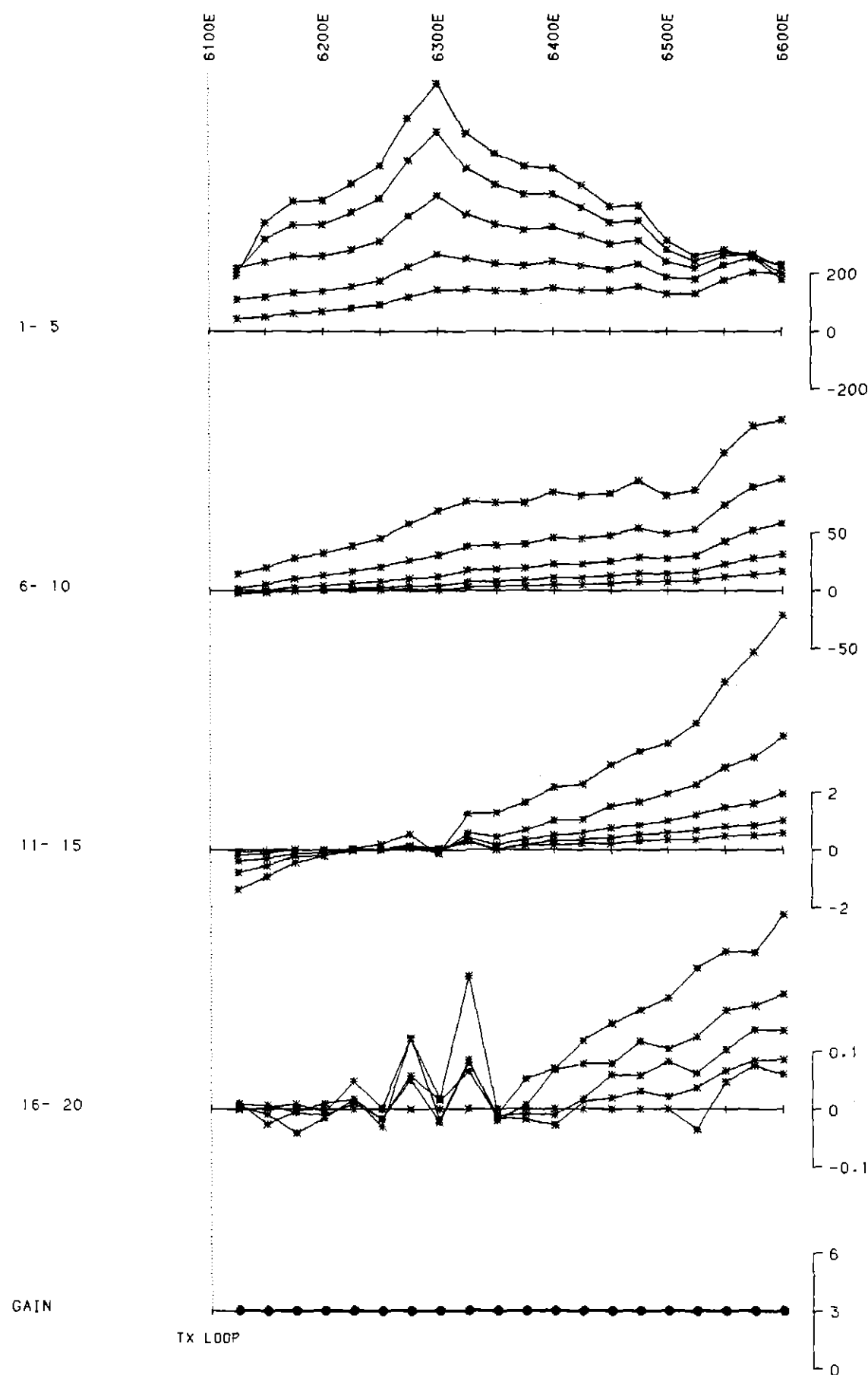
SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 5600N Z
 TX LOOP : 1

Report No.: 20795

TV 788

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
: 5366200N 366100E

TX LOOP SIZE : 700M X 400M

TX TURN OFF TIME : 280 MICROSECS.

FIRST GATE TIME : 88.

CURRENT : 15.5 AMPS

FREQUENCY : 25 HZ.

INTEGRATION TIME : 2048 CYCLES

SYNC MODE : CRYSTAL

HORIZONTAL SCALE : 1: 5000

SURVEYED BY : DMA

DATE : 13/03/1994

SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration

PROJECT : MELBA FLATS EL43/92

AREA : NICKEL REWARD-VAUDEAU

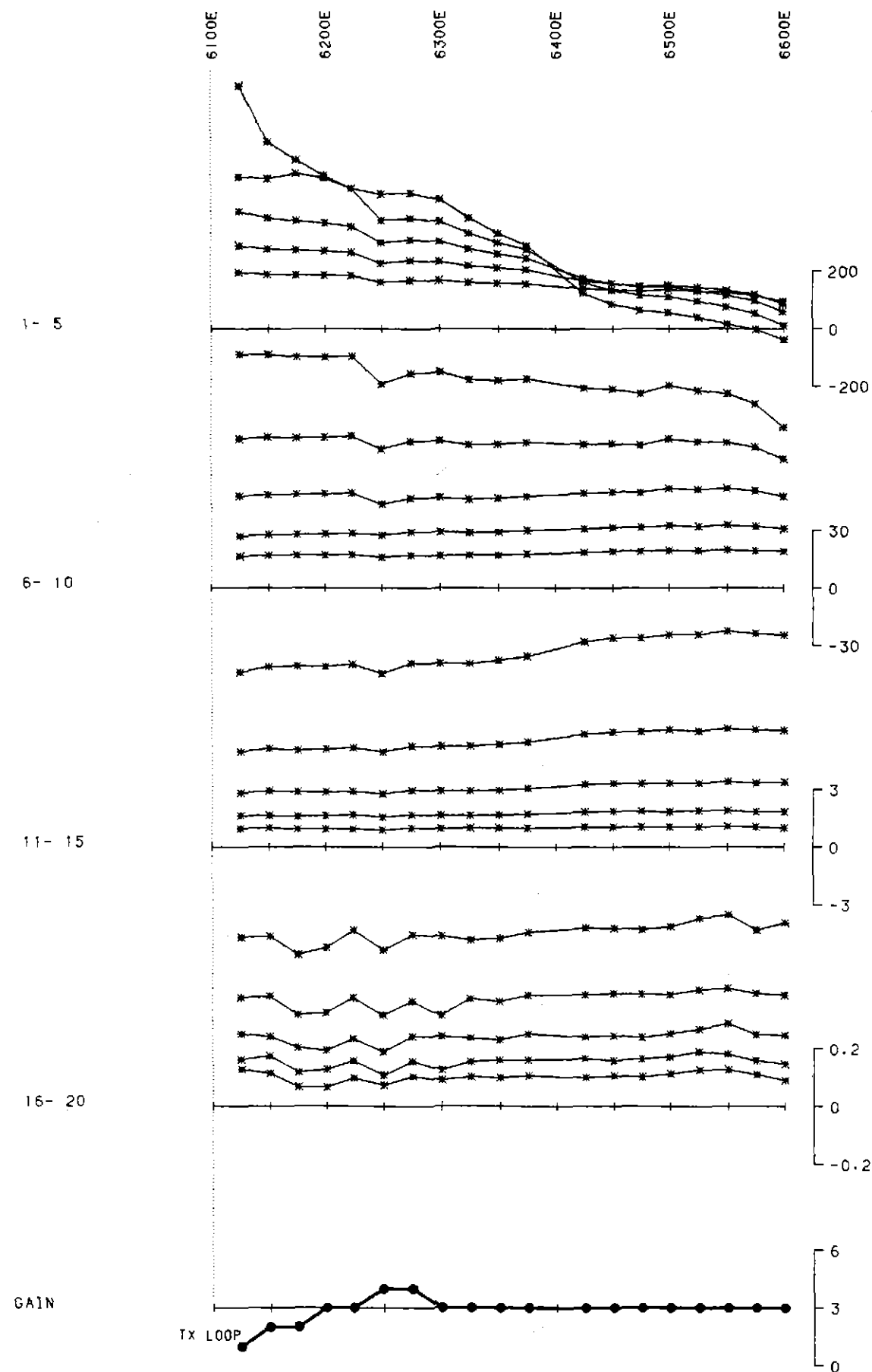
LINE : 5600N X

TX LOOP : 1

Report No.: 20795

TV 789

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700 M X 400 M
 TX TURN OFF TIME : 280 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.5 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1 : 5000
 SURVEYED BY : DMA
 DATE : 21/03/1994

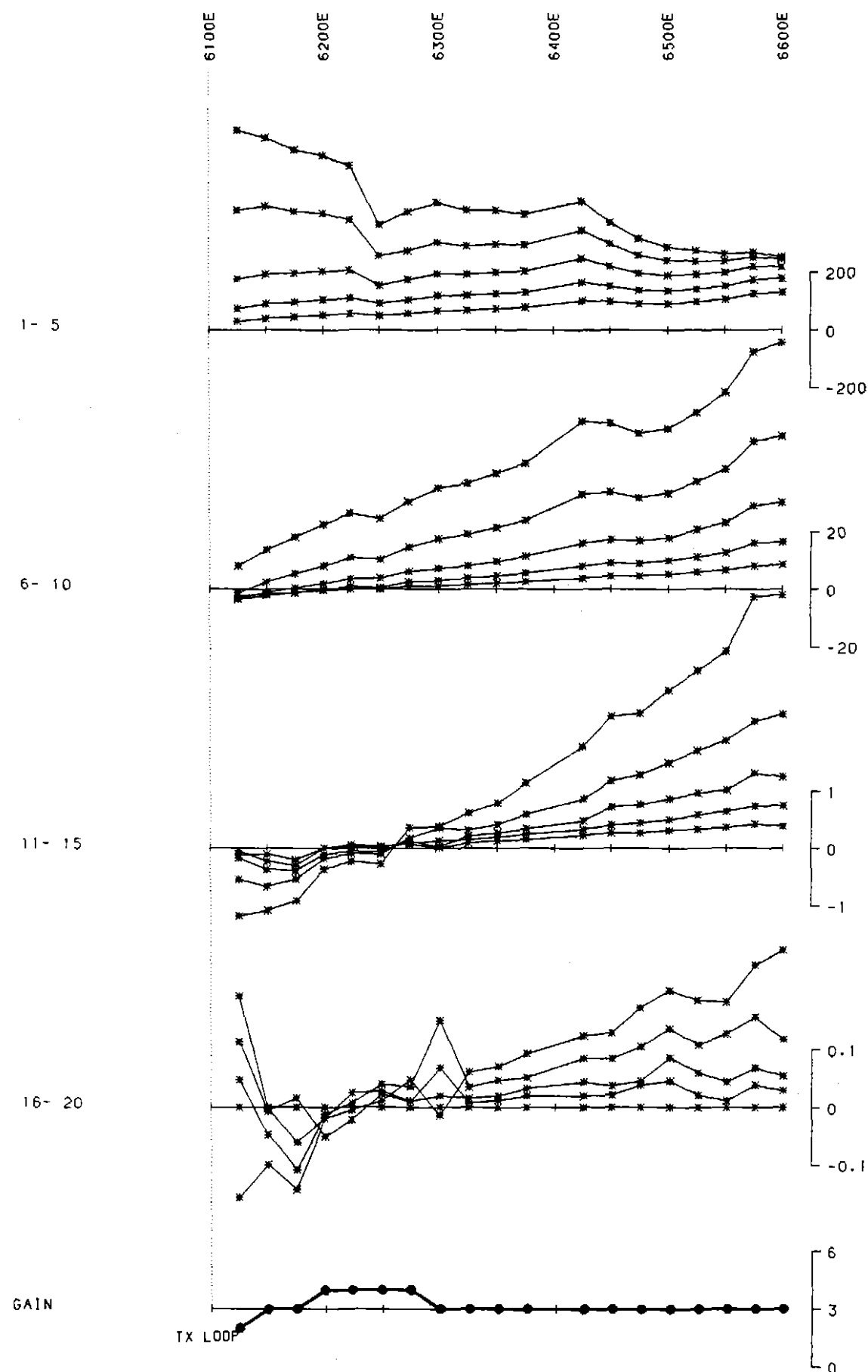
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 5650N Z
 TX LOOP : 1

Report No.: 20795

TV 730

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES	:	5365500N	365700E
	:	5366200N	366100E
TX LOOP SIZE	:	700 M X 400 M	
TX TURN OFF TIME	:	280 MICROSECS.	
FIRST GATE TIME	:	88.	
CURRENT	:	15.5 AMPS	
FREQUENCY	:	25 HZ.	
INTEGRATION TIME	:	2048 CYCLES	
SYNC MODE	:	CRYSTAL	
HORIZONTAL SCALE	:	1: 5000	
SURVEYED BY	:	DMA	
DATE	:	21/03/1994	

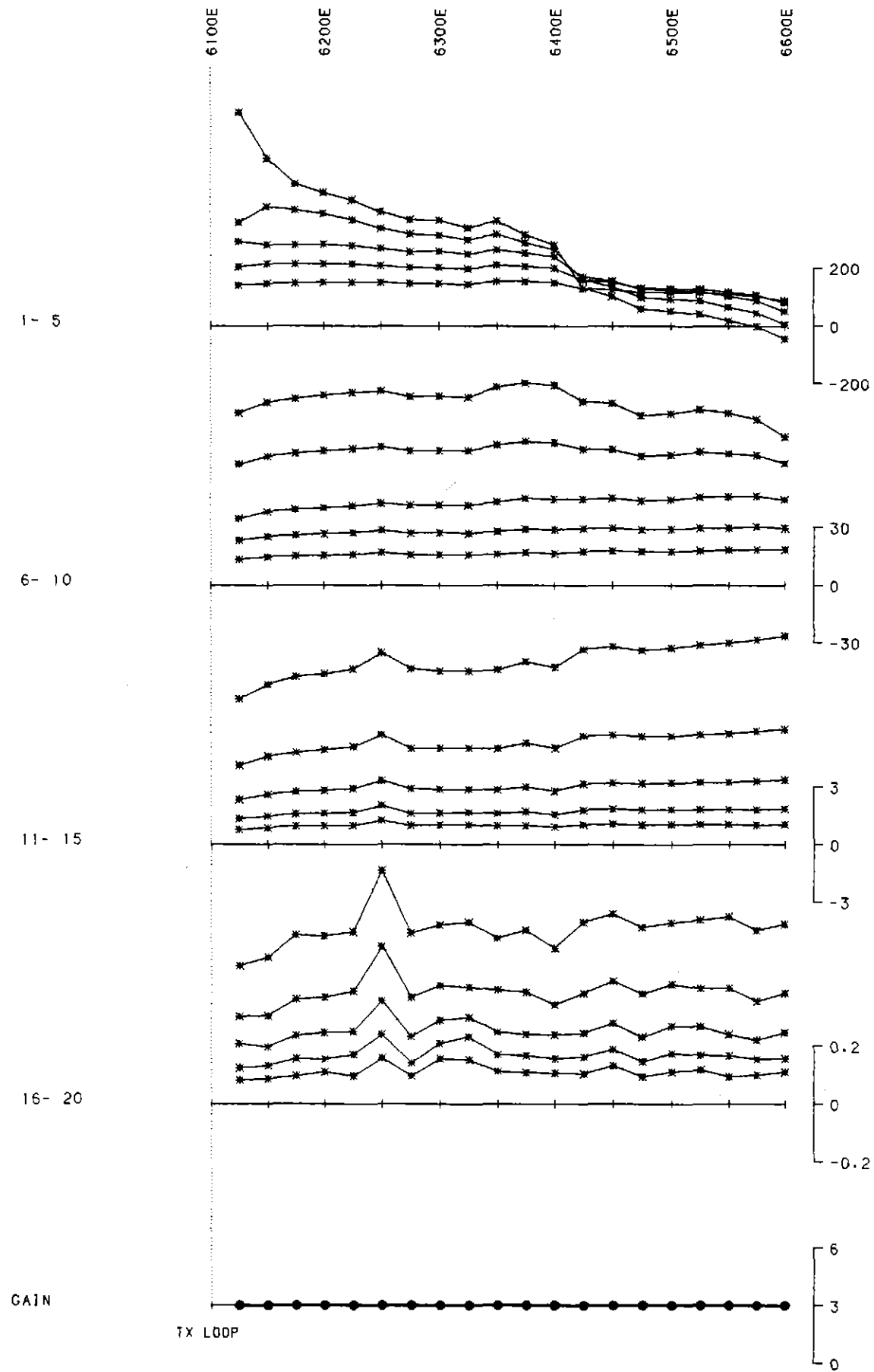
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT	:	CRA Exploration
PROJECT	:	MELBA FLATS EL43/92
AREA	:	NICKEL REWARD-VAUDEAU
LINE	:	5650N X
TX LOOP	:	1

Report No.: 20795

TV 791

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEY

ELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

TX LOOP SIDES : 5365500N 365700E
: 5366200N 366100E
TX LOOP SIZE : 700M X 400M
TX TURN OFF TIME : 270 MICROSECS.
FIRST GATE TIME : 88.
CURRENT : 14.6 AMPS
FREQUENCY : 25 HZ.
INTEGRATION TIME : 2048 CYCLES
SYNC MODE : CRYSTAL
HORIZONTAL SCALE : 1: 5000
SURVEYED BY : DMA
DATE : 17/03/1994

SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD. PROJECT NO.
3-817

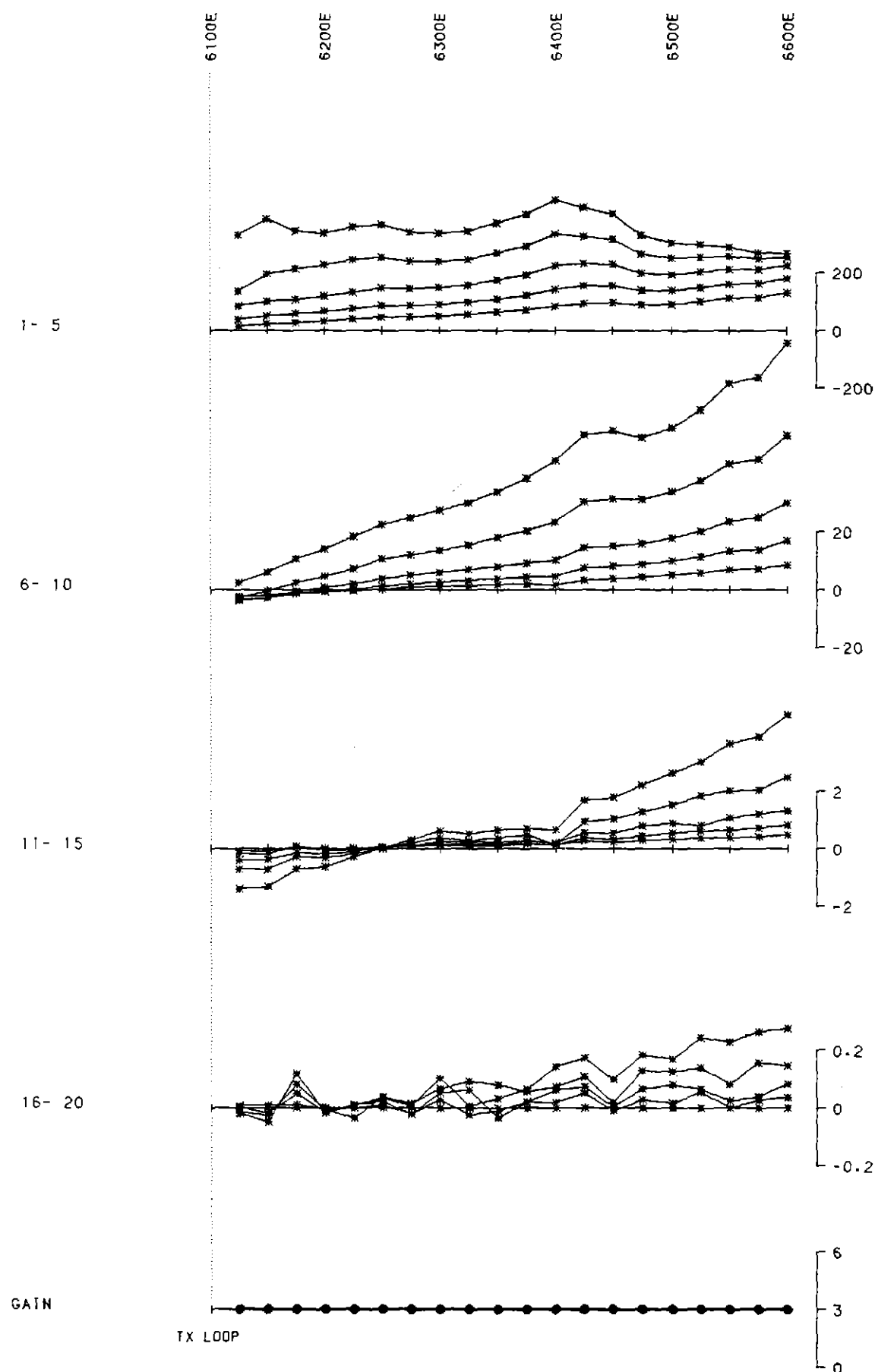
CLIENT : CRA Exploration
PROJECT : MELBA FLATS EL43/92
AREA : NICKEL REWARD-VAUDEAU
LINE : 5700N Z

TX LOOP : 1
Report No.: 20795

TV 792

305045

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700M X 400M
 TX TURN OFF TIME : 270 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 14.6 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 17/03/1994

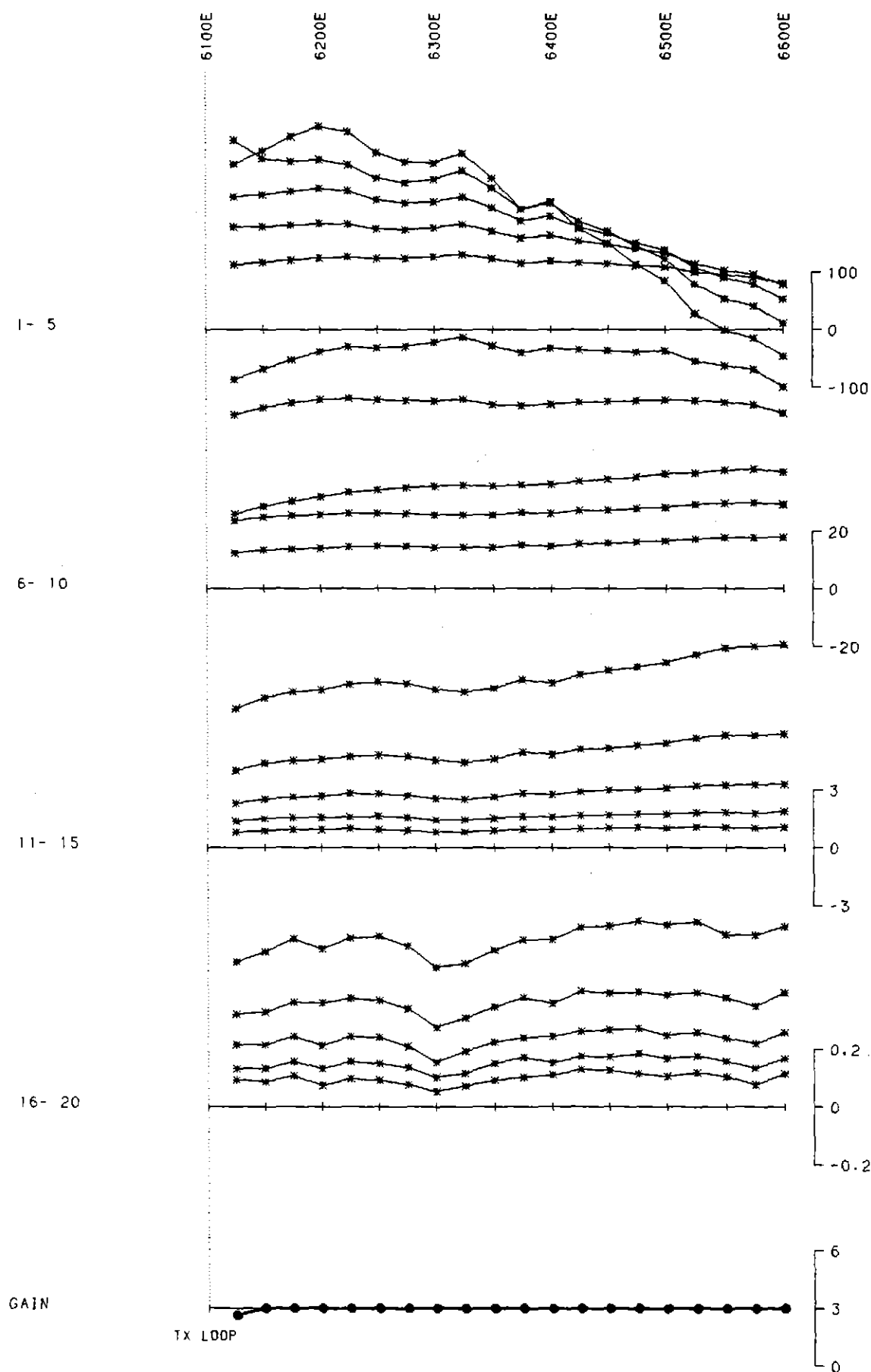
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 5700N X
 TX LOOP : 1

Report No.: 20795

TV 793

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700M X 400M
 TX TURN OFF TIME : 270 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 14.6 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 17/03/1994

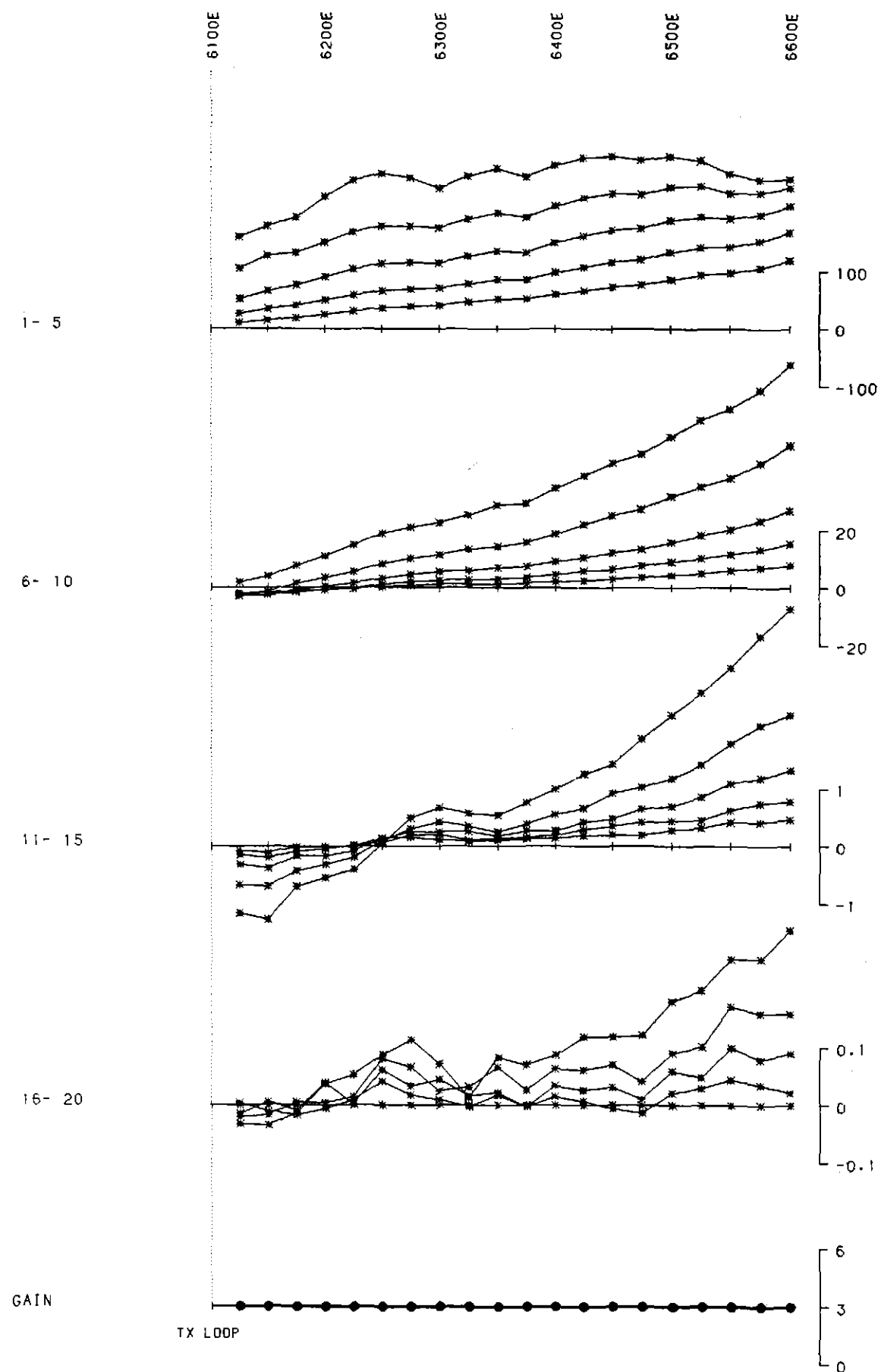
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 5750N 2
 TX LOOP : 1
 Report No. : 20795

TV 794

305047

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700M X 400M
 TX TURN OFF TIME : 270 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 14.6 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 17/03/1994

SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

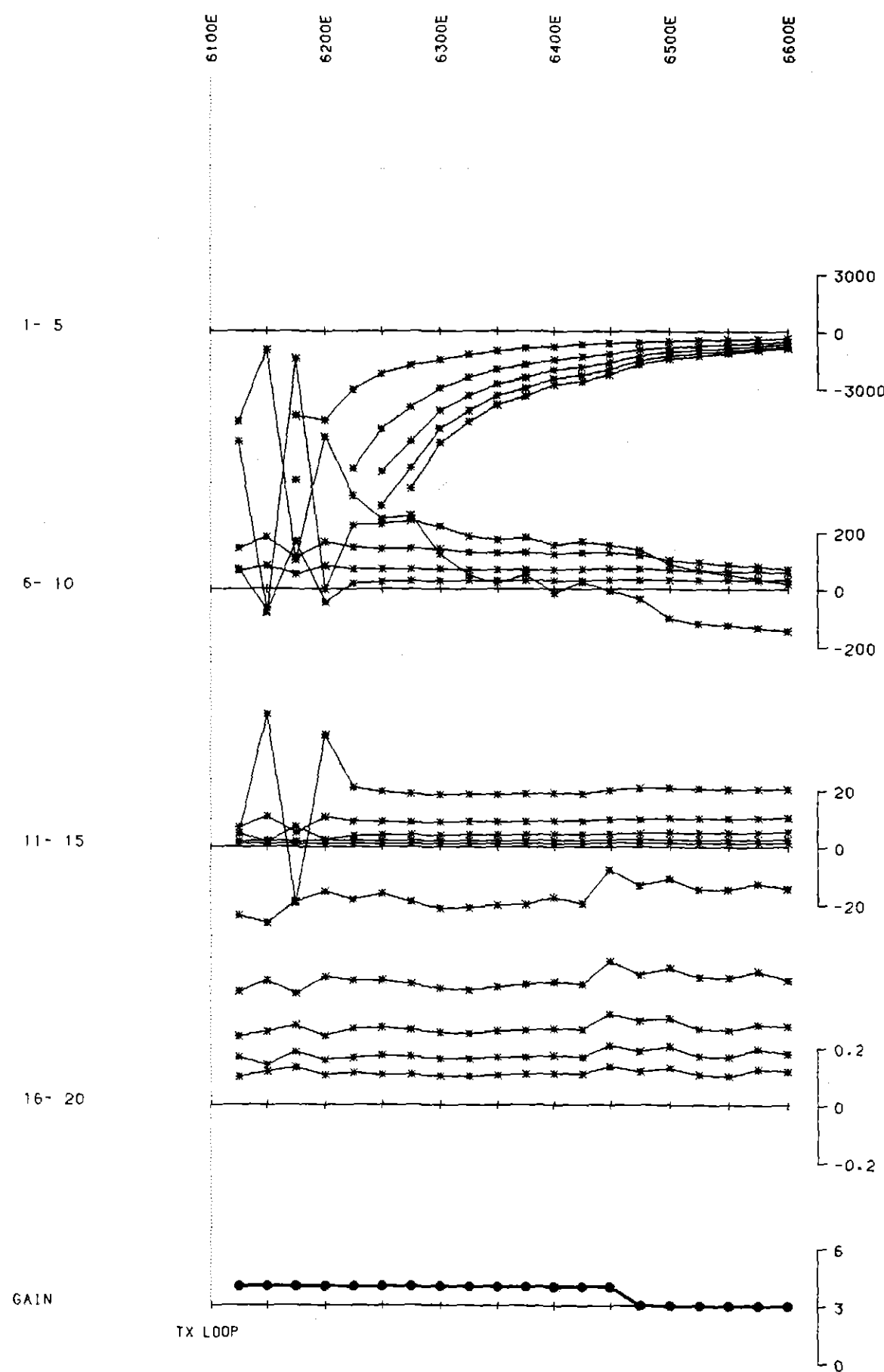
CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 5750N X

TX LOOP : 1
 Report No.: 20795

TV 795

305048

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E

TX LOOP SIZE : 700M X 400M

TX TURN OFF TIME : 200 MICROSECS.

FIRST GATE TIME : 88.

CURRENT : 15.0 AMPS

FREQUENCY : 25 HZ.

INTEGRATION TIME : 2048 CYCLES

SYNC MODE : CRYSTAL

HORIZONTAL SCALE : 1: 5000

SURVEYED BY : DMA

DATE : 09/03/1994

SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration

PROJECT : MELBA FLATS EL43/92

AREA : NICKEL REWARD-VAUDEAU

LINE : 5800N Z

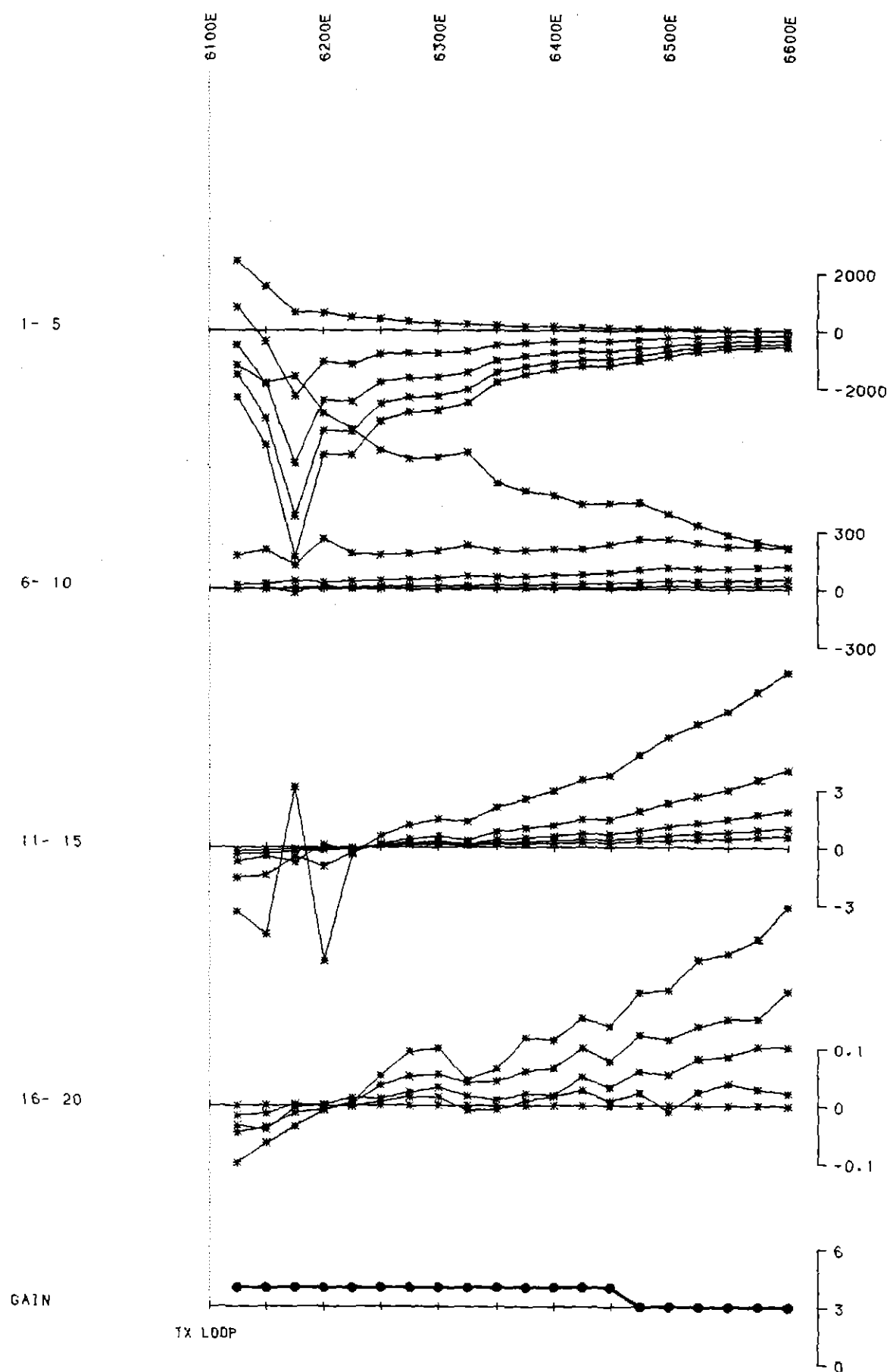
TX LOOP : 1

Report No.: 20795

TV 796

305049

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700M X 400M
 TX TURN OFF TIME : 200 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.0 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1 : 5000
 SURVEYED BY : DMA
 DATE : 09/03/1994

SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

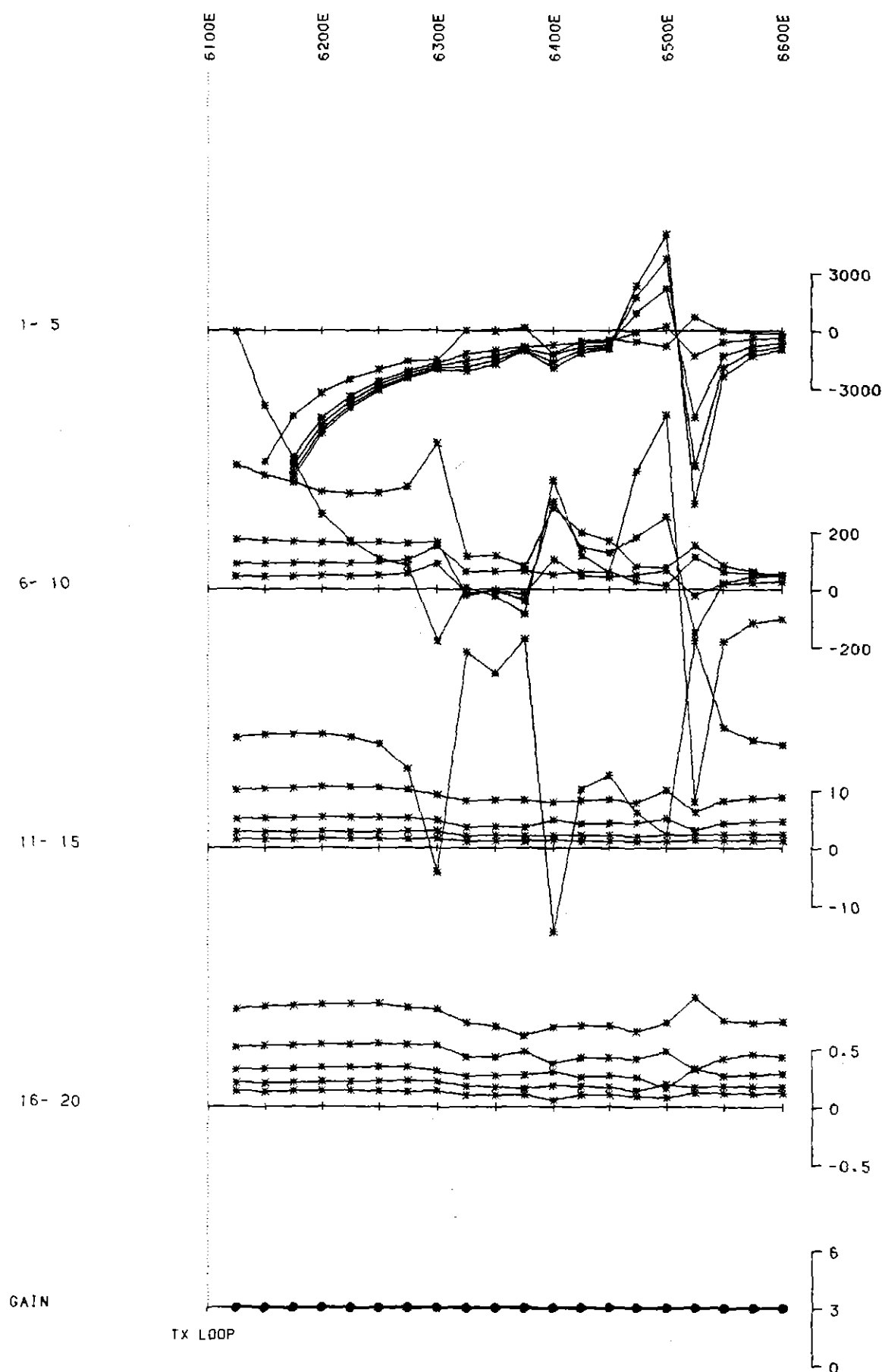
CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 5800N X
 TX LOOP : 1

Report No.: 20795

TV 797

305050

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp-metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700M X 400M
 TX TURN OFF TIME : 200 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.0 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 09/03/1994

SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

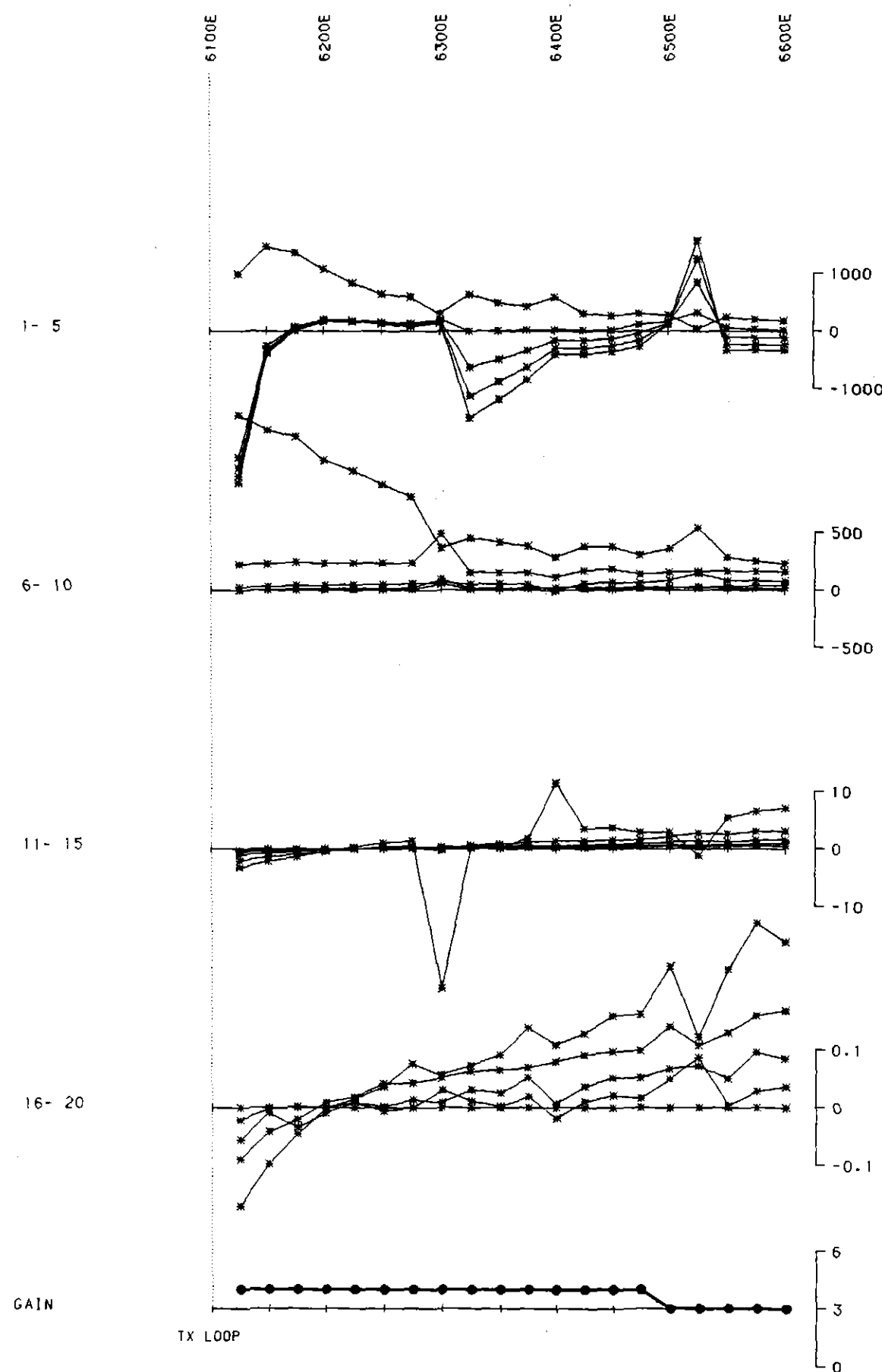
CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 5850N Z
 TX LOOP : 1

Report No.: 20795

TV 798

305051

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700M X 400M
 TX TURN OFF TIME : 200 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.0 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 09/03/1994

SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

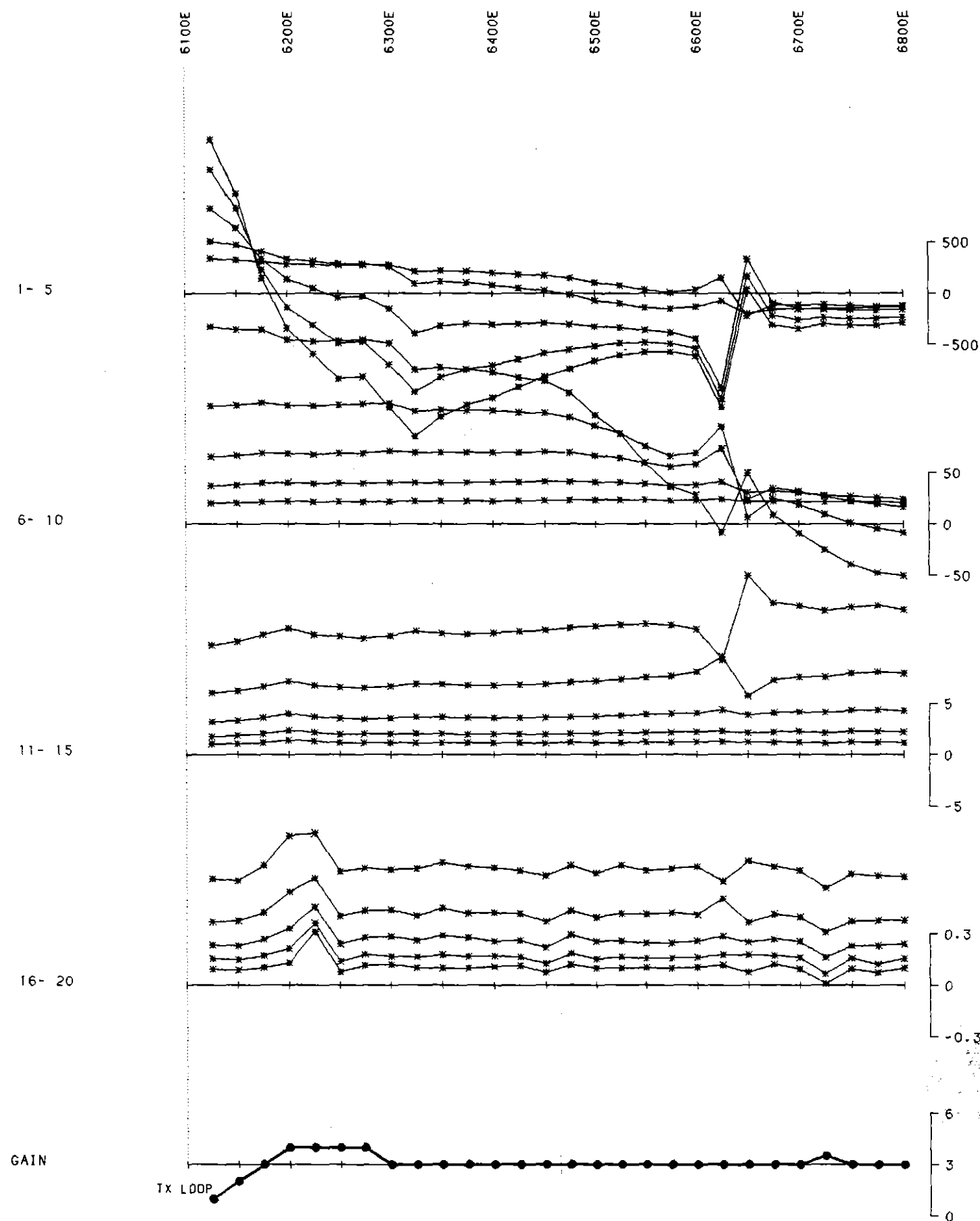
CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 5850N X
 TX LOOP : 1

Report No.: 20795

TV 799

305052

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

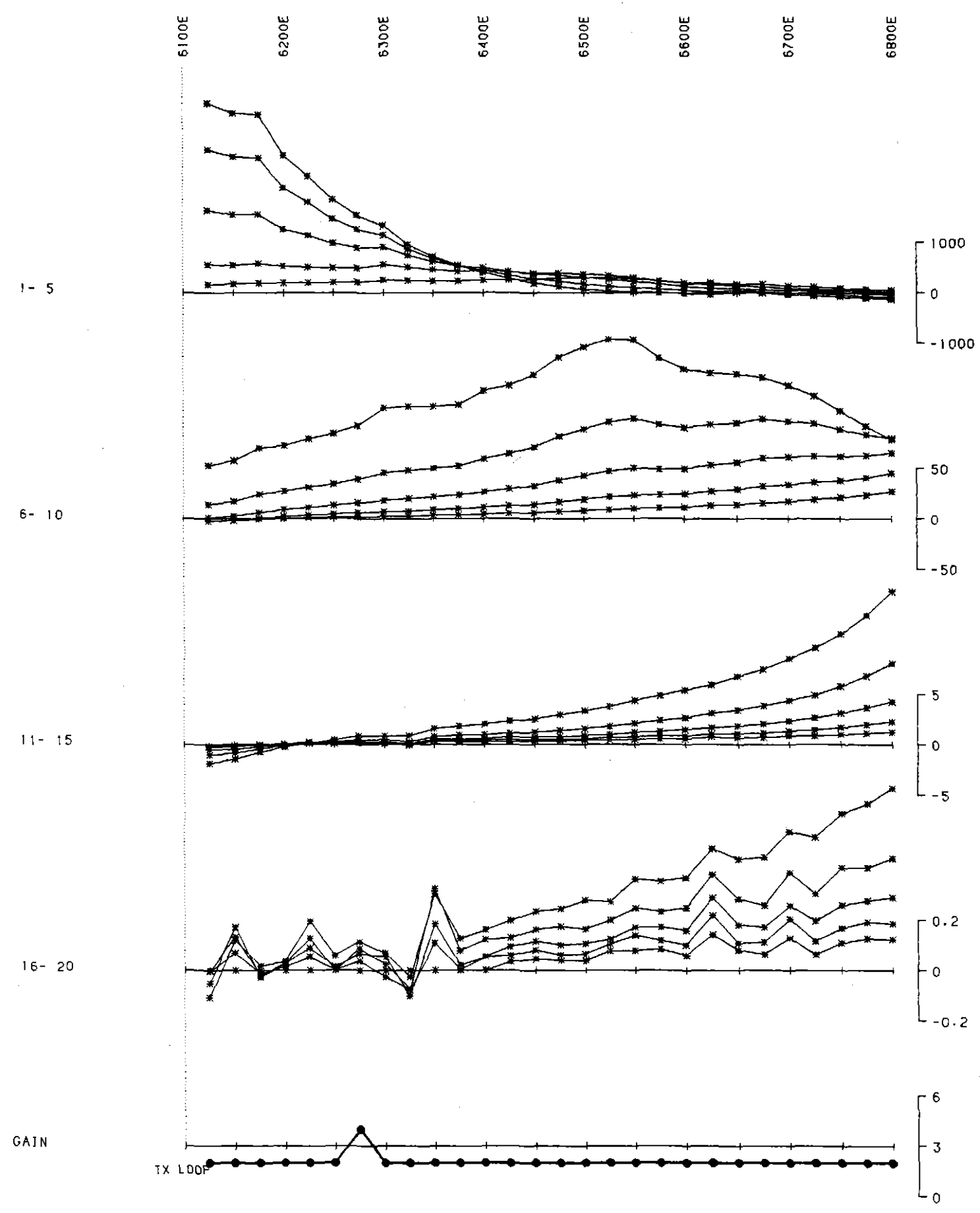
TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700 M X 400 M
 TX TURN OFF TIME : 276 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.0 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 20/03/1994

SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 5900N Z
 TX LOOP : 1

TV 800
Report No. 20795

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
: 5366200N 366100E
TX LOOP SIZE : 700 M X 400 M
TX TURN OFF TIME : 276 MICROSECS.
FIRST GATE TIME : 88.
CURRENT : 15.0 AMPS
FREQUENCY : 25 HZ.
INTEGRATION TIME : 2048 CYCLES
SYNC MODE : CRYSTAL
HORIZONTAL SCALE : 1 : 5000
SURVEYED BY : DMA
DATE : 20/03/1994



SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.

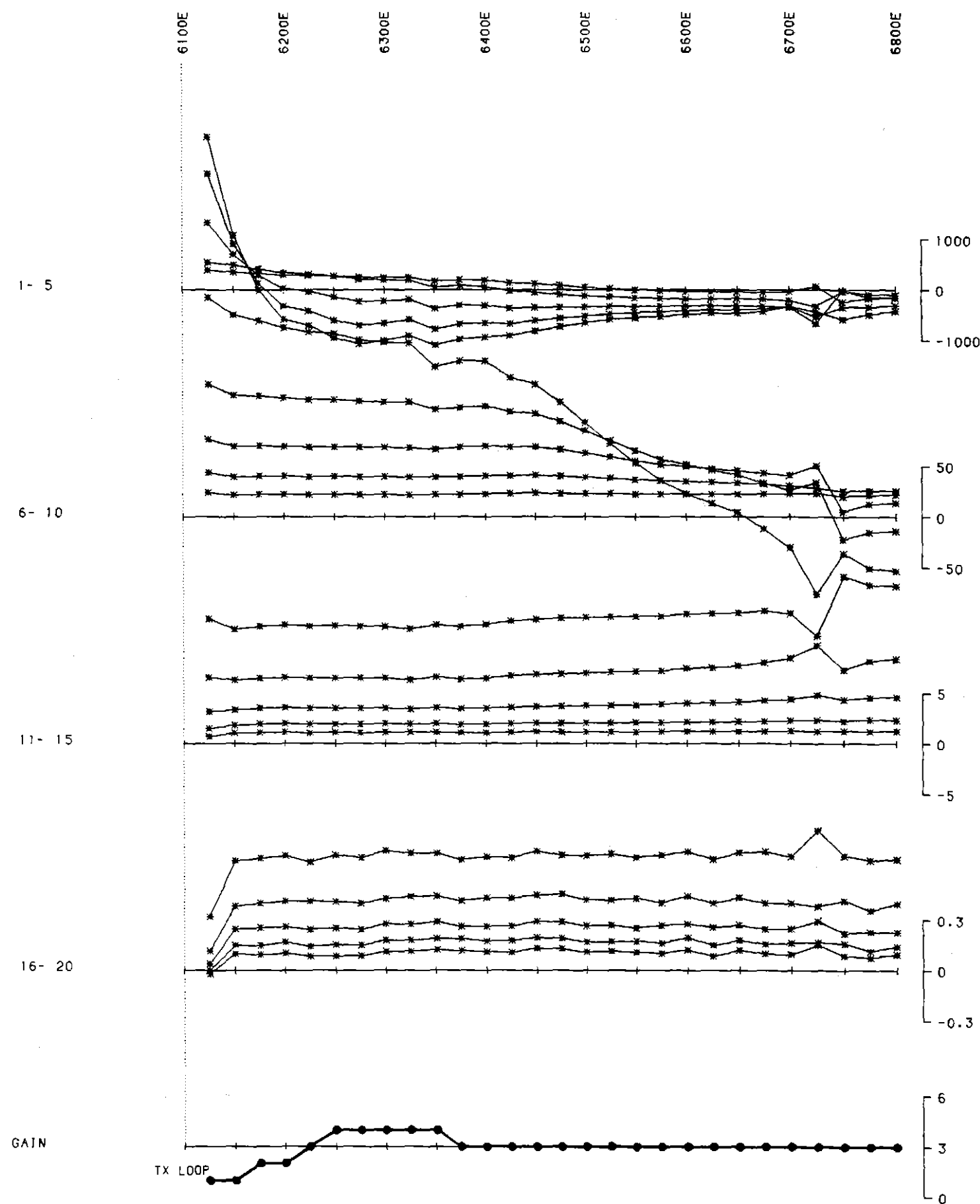
PROJECT NO.
3-817

CLIENT : CRA Exploration
PROJECT : MELBA FLATS EL43/92
AREA : NICKEL REWARD-VAUDEAU
LINE : 5900N X
TX LOOP : 1

Report No. 20795

TV 801

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

TX LOOP SIDES : 5365500N 365700E
: 5366200N 366100E

TX LOOP SIZE : 700 M X 400 M

TX TURN OFF TIME : 276 MICROSECS.

FIRST GATE TIME : 88.

CURRENT : 15.0 AMPS

FREQUENCY : 25 HZ.

INTEGRATION TIME : 2048 CYCLES

SYNC MODE : CRYSTAL

HORIZONTAL SCALE : 1: 5000

SURVEYED BY : DMA

DATE : 20/03/1994

SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration

PROJECT : MELBA FLATS EL43/92

AREA : NICKEL REWARD-VAUDEAU

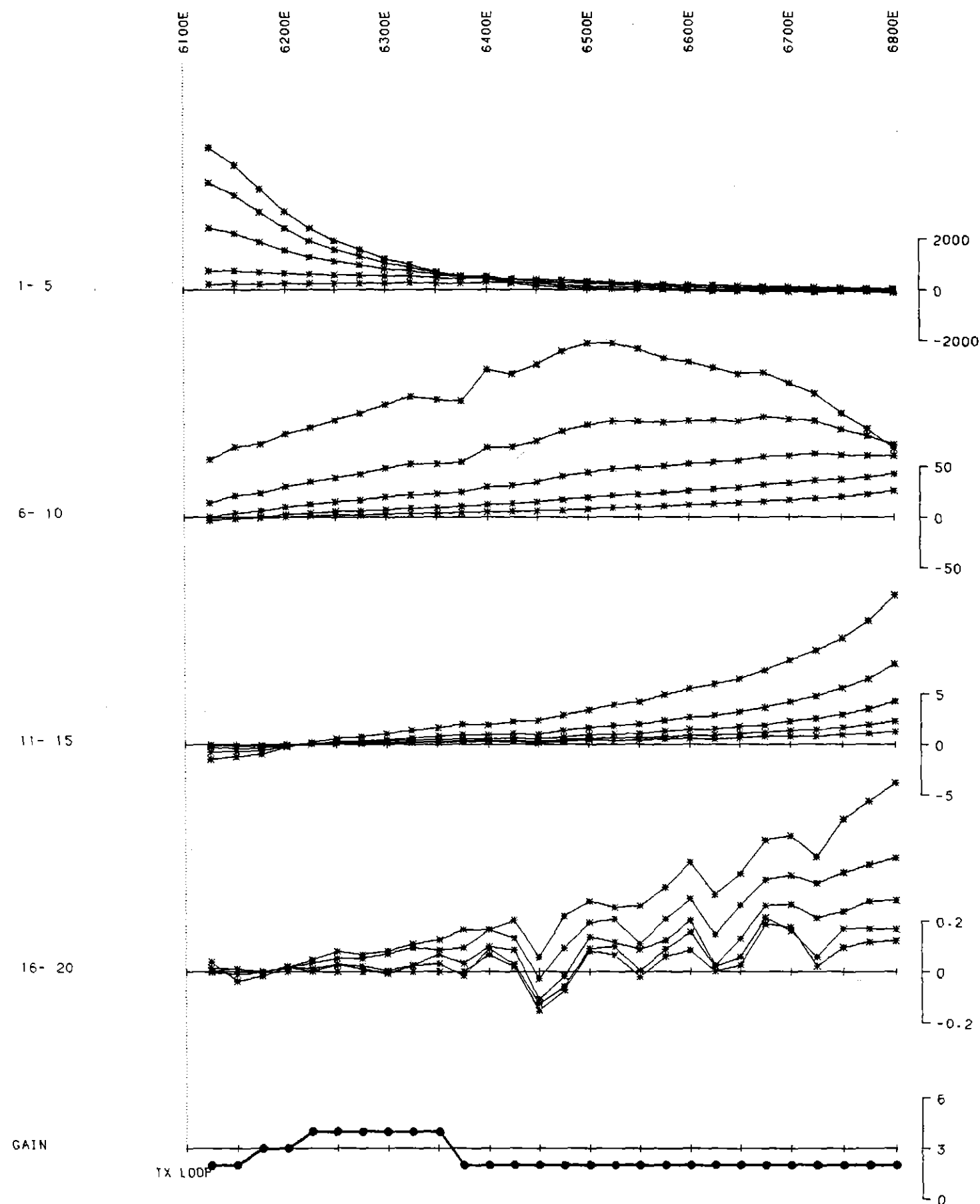
LINE : 5950N Z

TX LOOP : 1

Report No. 20795

TV 802

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700 M X 400 M
 TX TURN OFF TIME : 276 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.0 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 20/03/1994

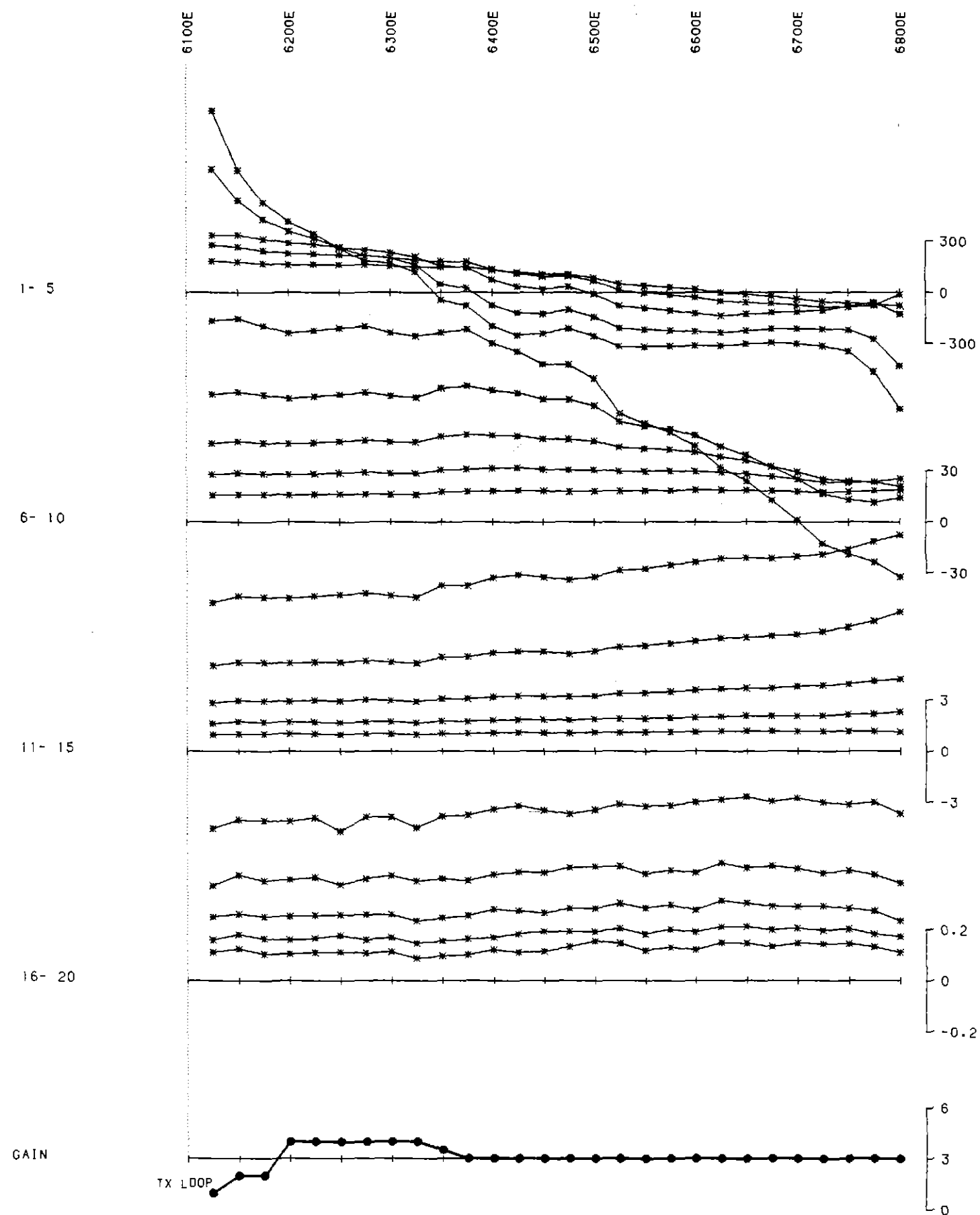
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 5950N X
 TX LOOP : 1

Report No.: 20795

TV 803

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700 M X 400 M
 TX TURN OFF TIME : 285 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.8 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 10/03/1994

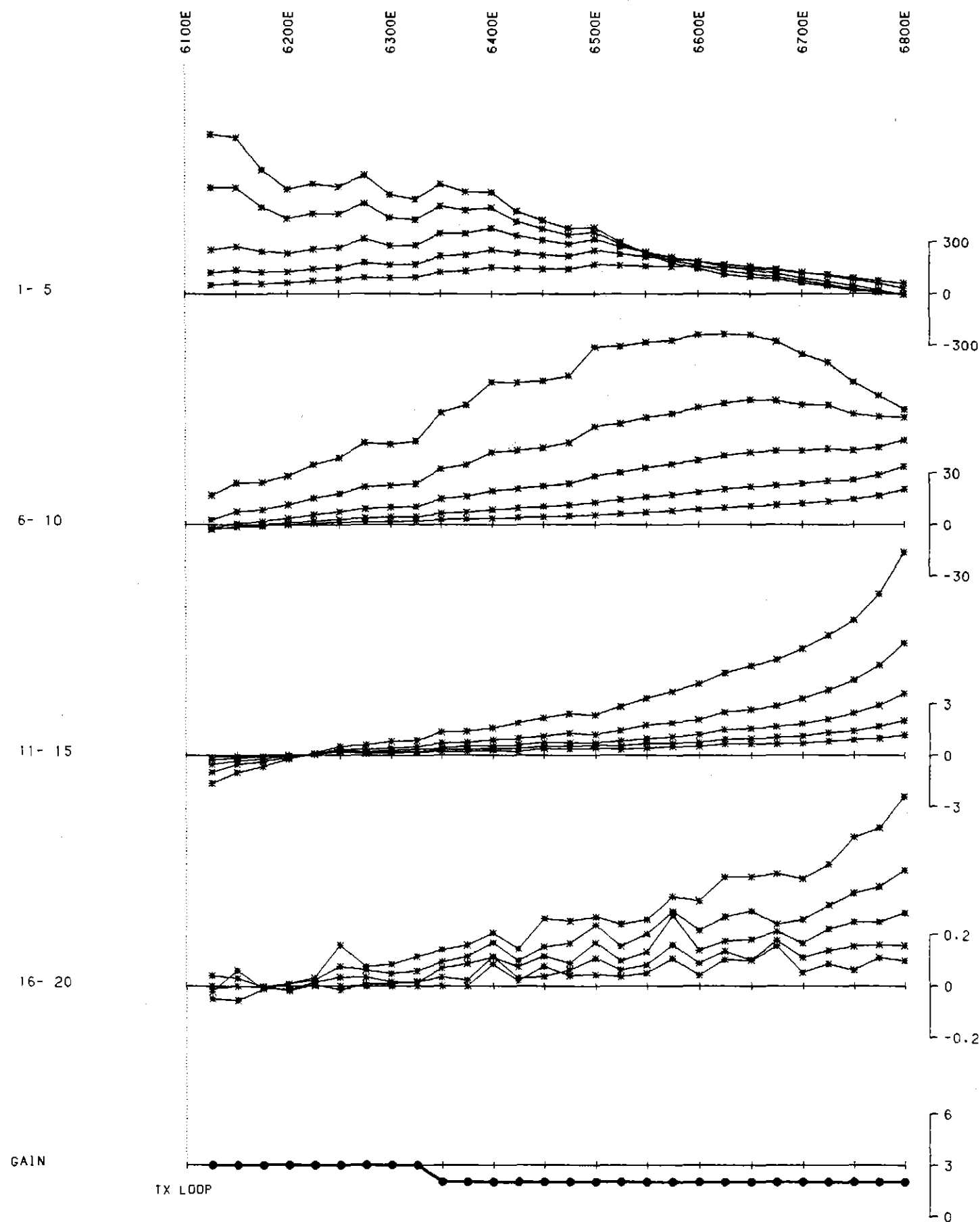
SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 6000N Z
 TX LOOP : 1

Report No.: 20795

TV 804

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700 M X 400 M
 TX TURN OFF TIME : 285 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.8 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 10/03/1994

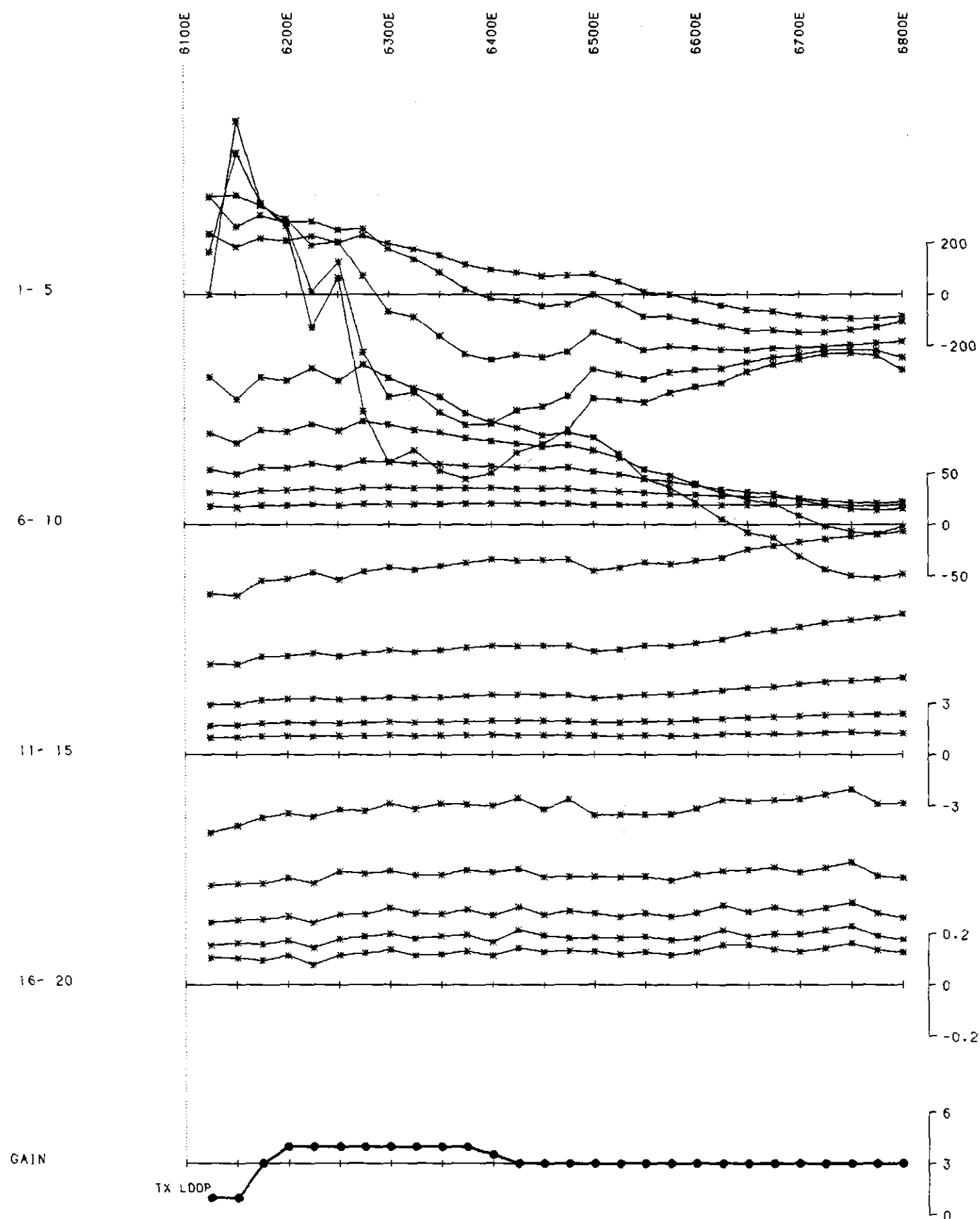
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 6000N X
 TX LOOP : 1

Report No.: 20795

TV 805

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700 M X 400 M
 TX TURN OFF TIME : 285 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.8 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 10/03/1994

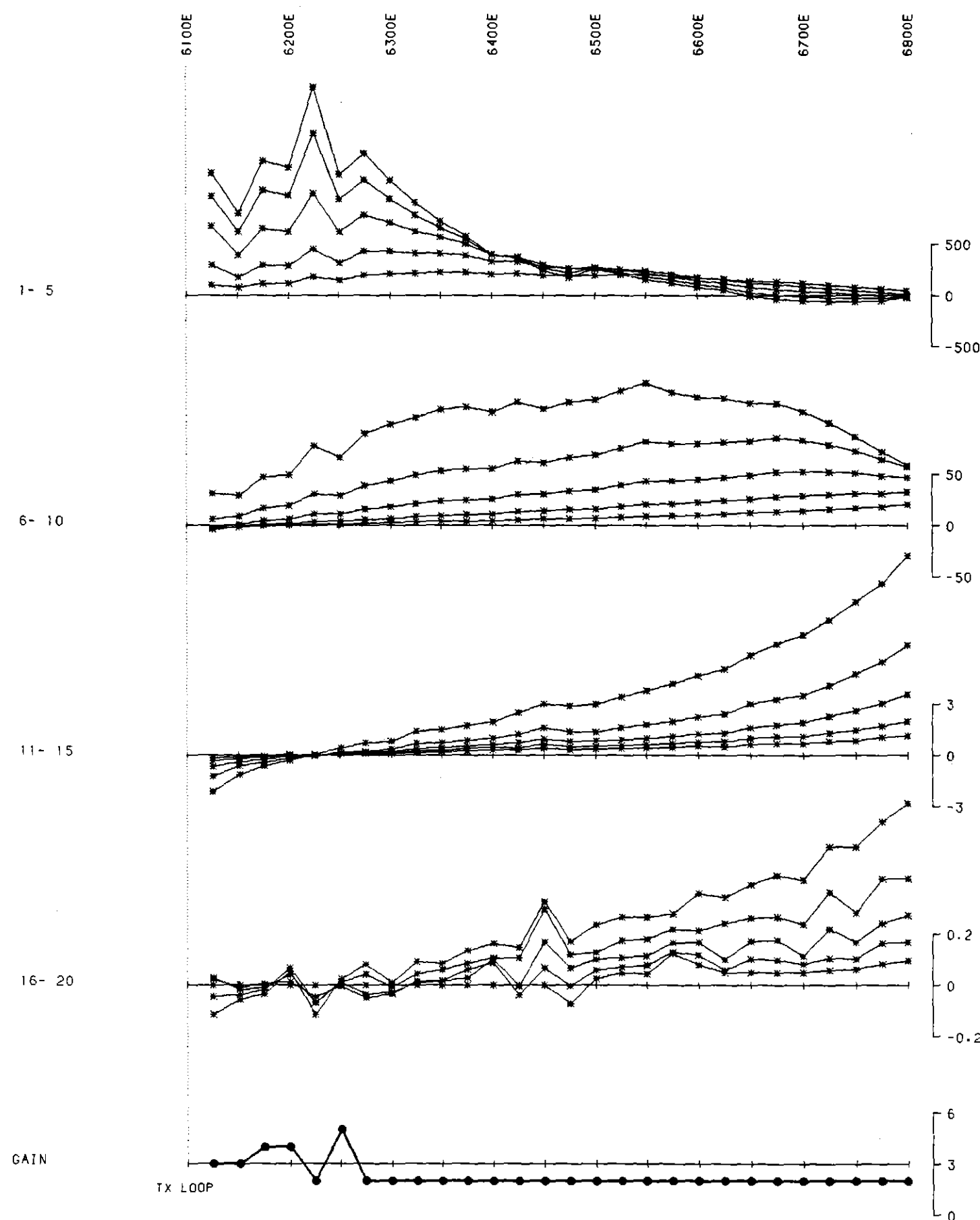
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 6050N
 TX LOOP : 1

Report No. 20795

TV 806

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

nanovolts per amp metre squared

5 cm

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700 M X 400 M
 TX TURN OFF TIME : 285 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.8 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1 : 5000
 SURVEYED BY : DMA
 DATE : 10/03/1994

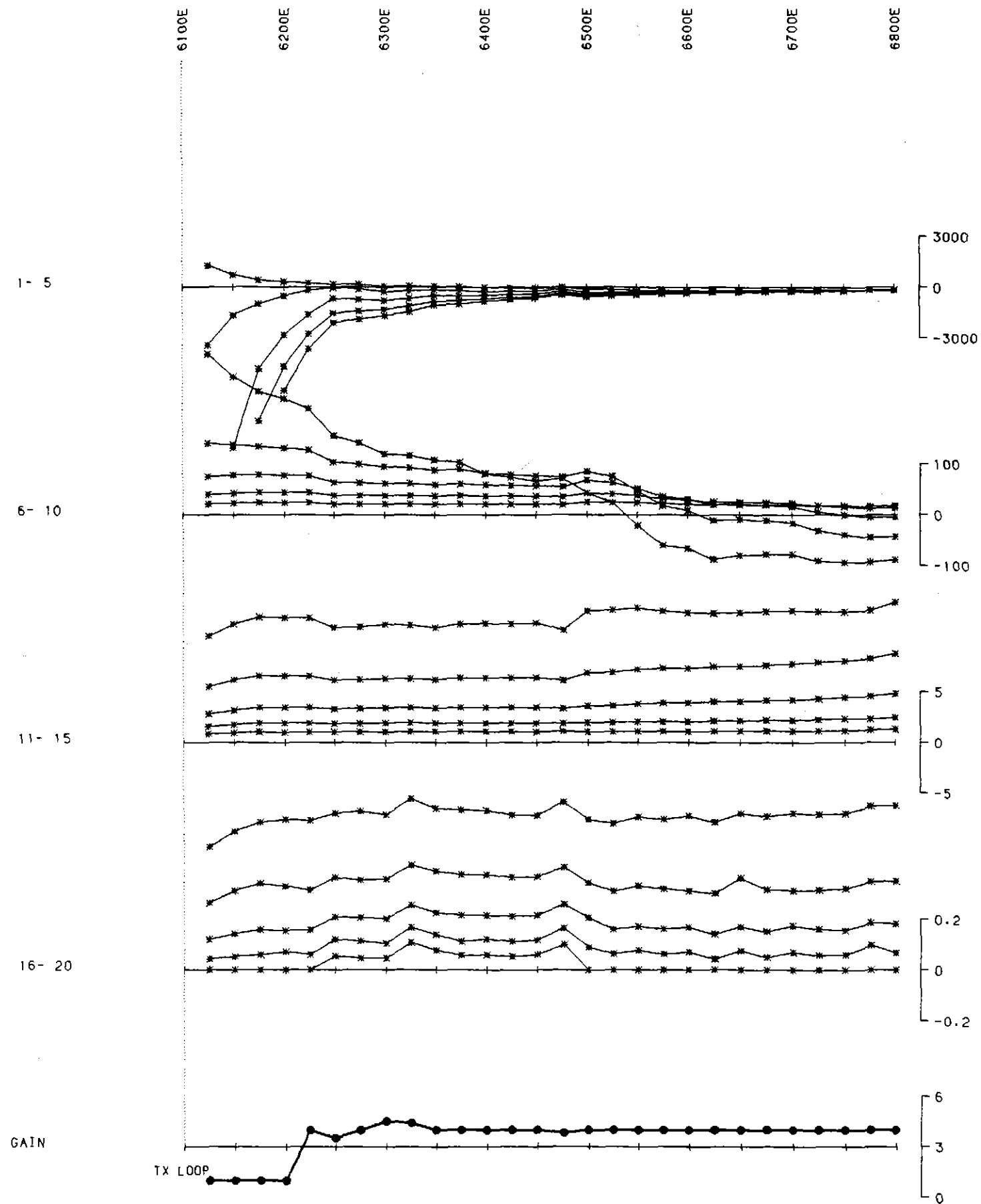
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 6050N X
 TX LOOP : 1

Report No.: 20795

TV 807

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700M X 400M
 TX TURN OFF TIME : 288 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 16.0 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1 : 5000
 SURVEYED BY : DMA
 DATE : 10/03/1994

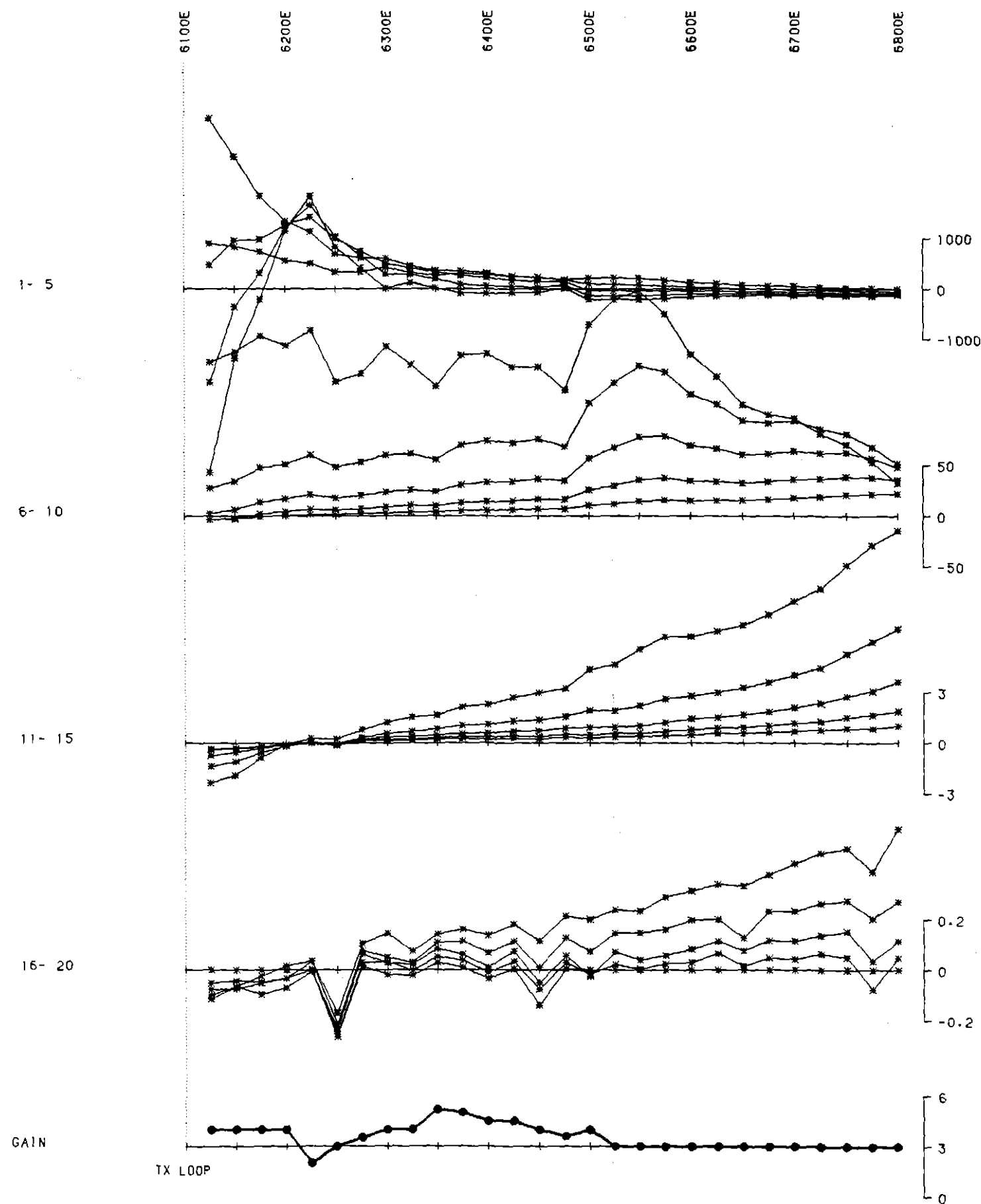
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : Nickel Reward
 AREA : Melba Flats
 LINE : 6100N Z
 TX LOOP : 1

Report No.: 20795

TV 808

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

nanovolts per amp metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700M X 400M
 TX TURN OFF TIME : 288 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 16.0 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 10/03/1994

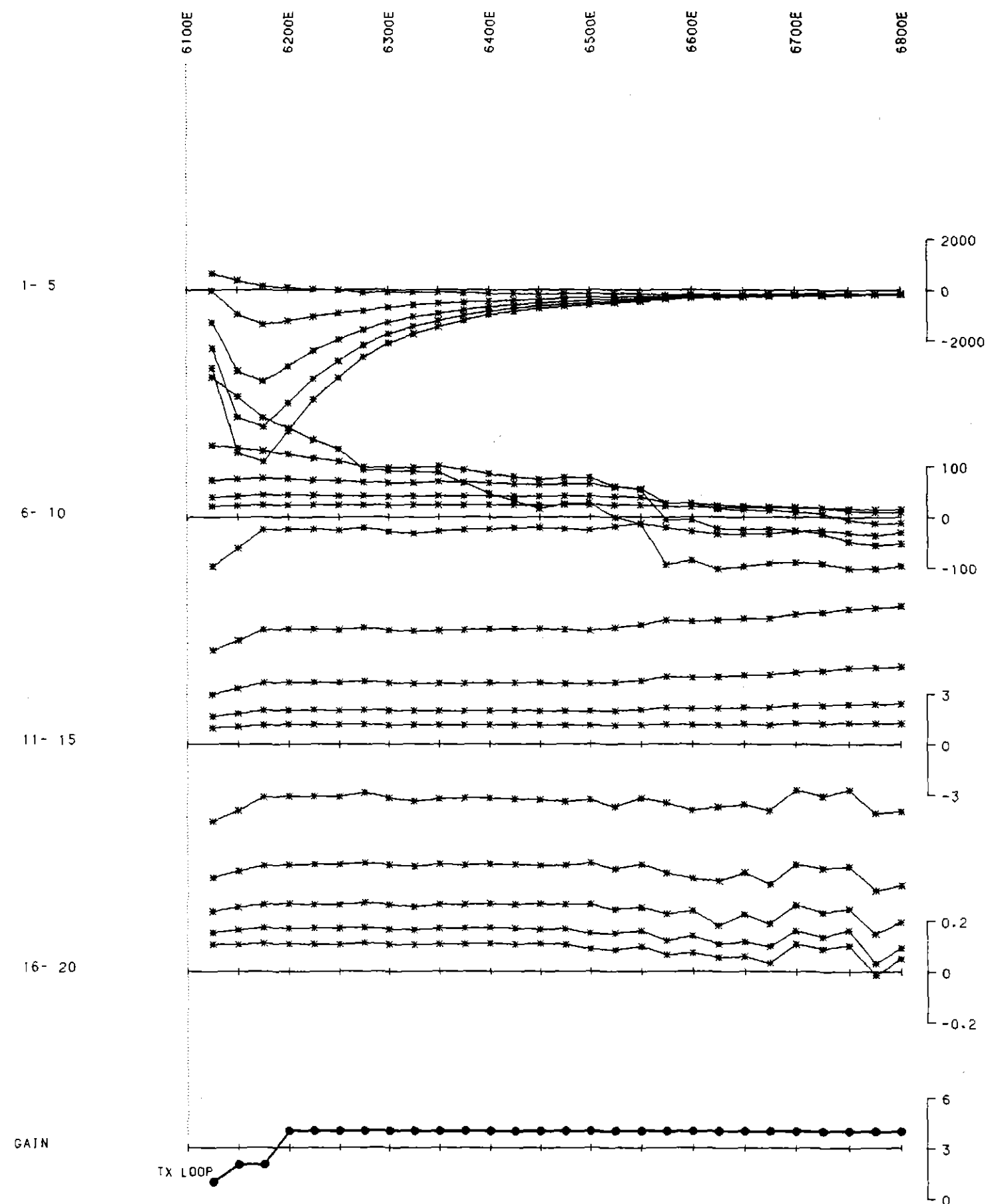
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-B17

CLIENT : CRA Exploration
 PROJECT : Nickel Reward
 AREA : Melba Flats
 LINE : 6100N X
 TX LOOP : 1

Report No.: 20795

TV 809

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp-metre squared

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700M X 400M
 TX TURN OFF TIME : 288 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 16.0 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 10/03/1994

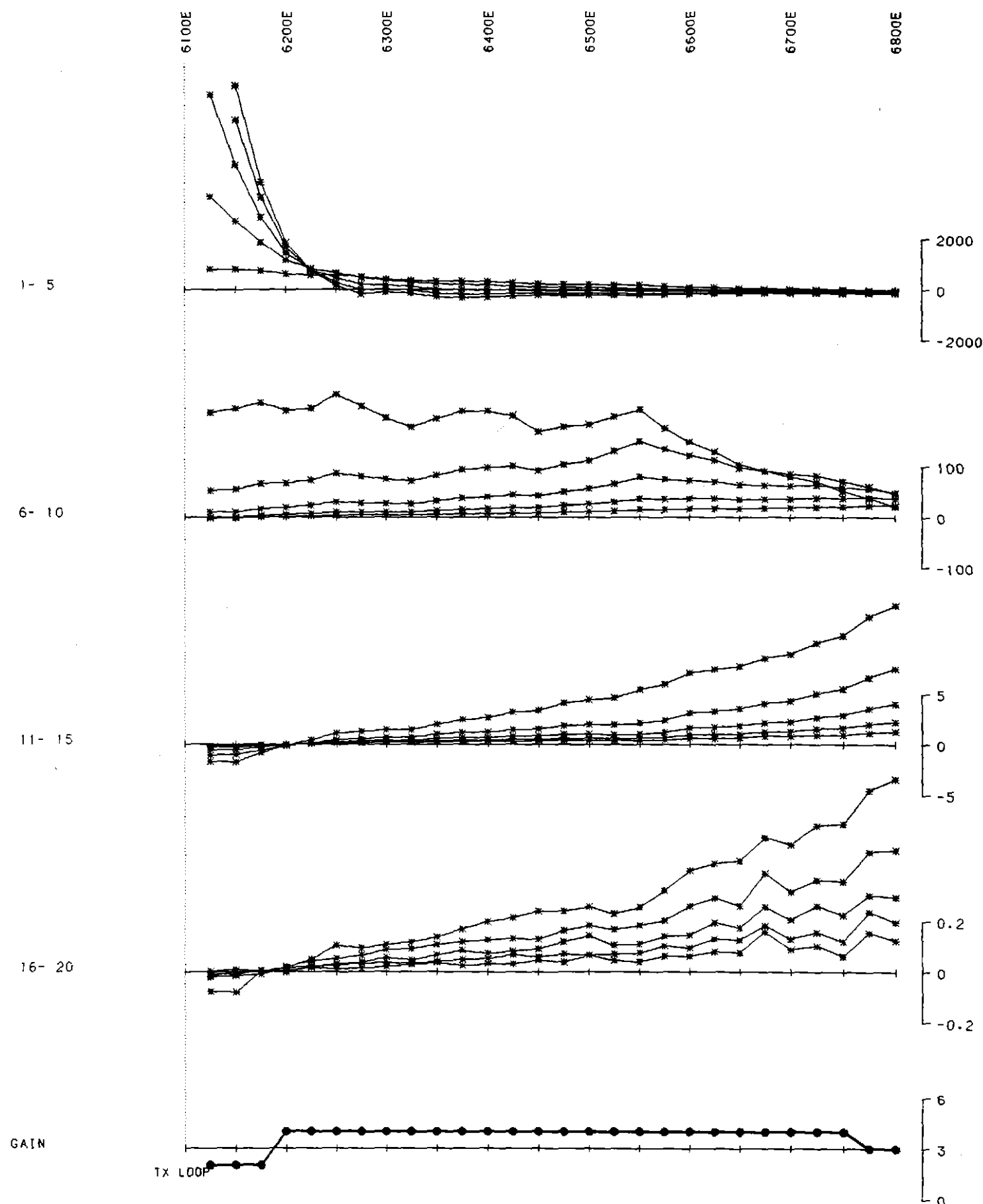
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 6150N Z
 TX LOOP : 1
 Report No.: 20795

TV 810

305063

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700M X 400M
 TX TURN OFF TIME : 288 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 16.0 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 10/03/1994

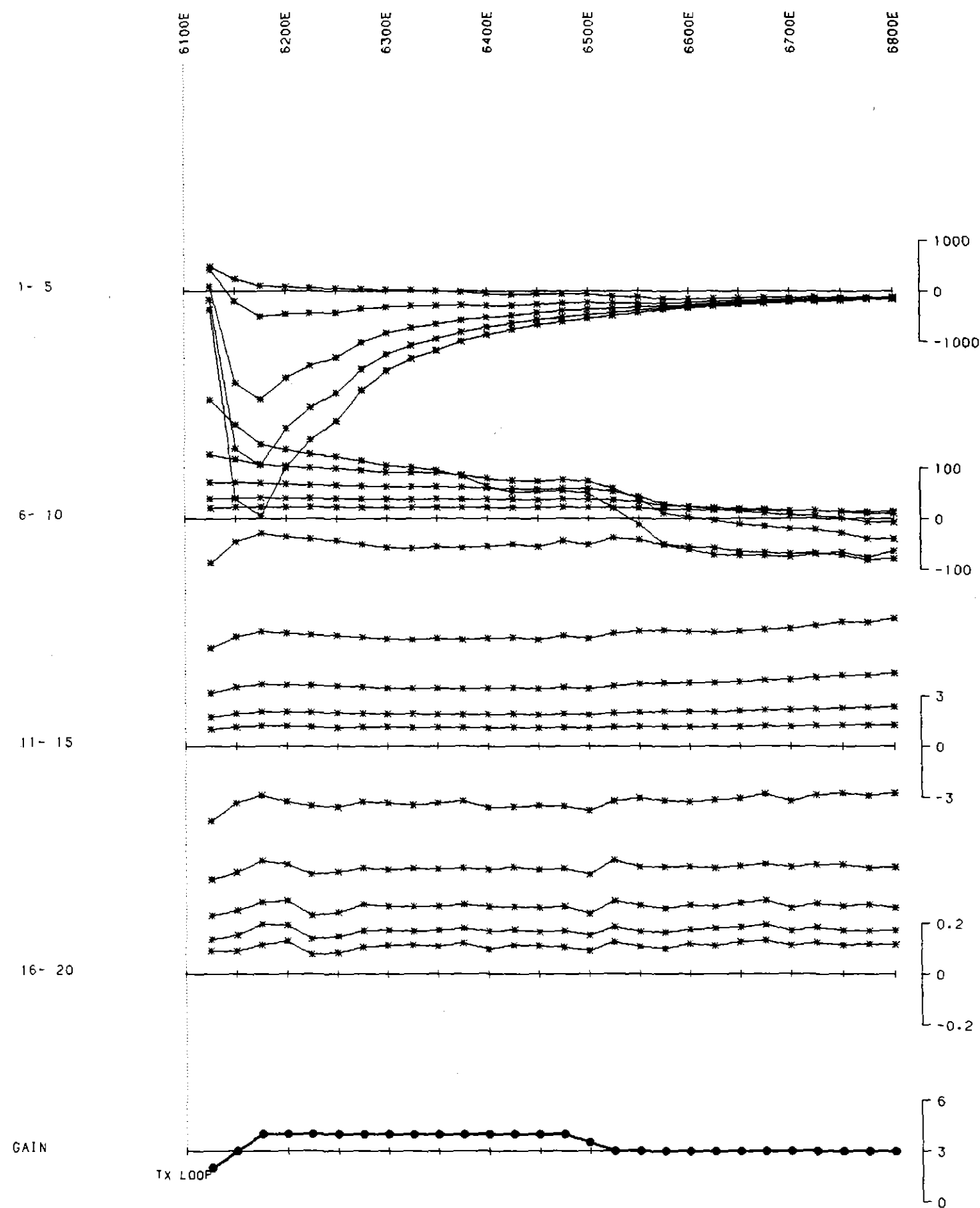
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 6150N X
 TX LOOP : 1

Report No.: 20795

TV 811

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700 M X 400 M
 TX TURN OFF TIME : 283 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.2 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 10/03/1994

SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

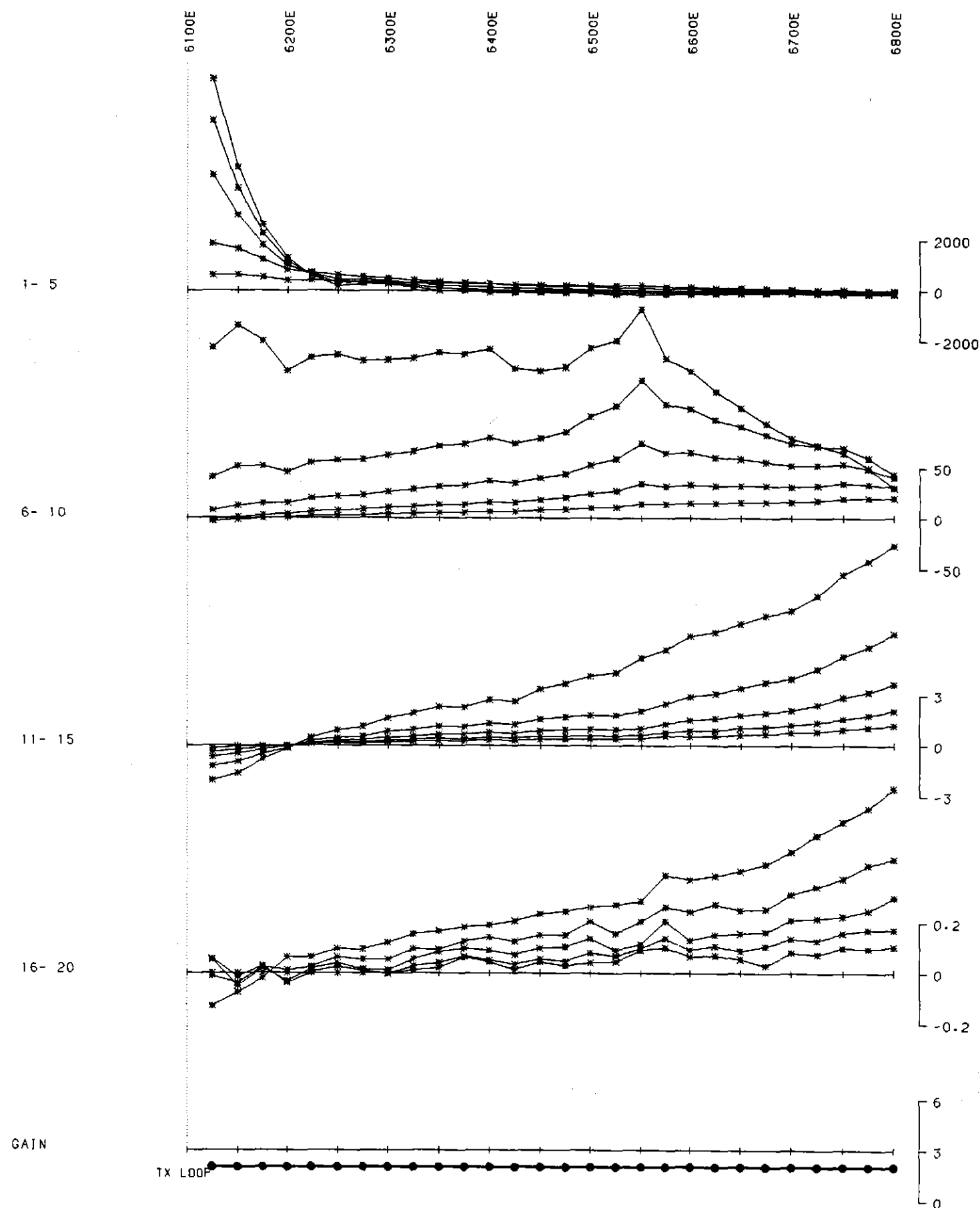
CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 6200N Z
 TX LOOP : 1

Report No.: 20795

TV 812

305065

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

TX LOOP SIDES : 5365500N 365700E
 : 5366200N 366100E
 TX LOOP SIZE : 700 M X 400 M
 TX TURN OFF TIME : 283 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 15.2 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1 : 5000
 SURVEYED BY : DMA
 DATE : 10/03/1994

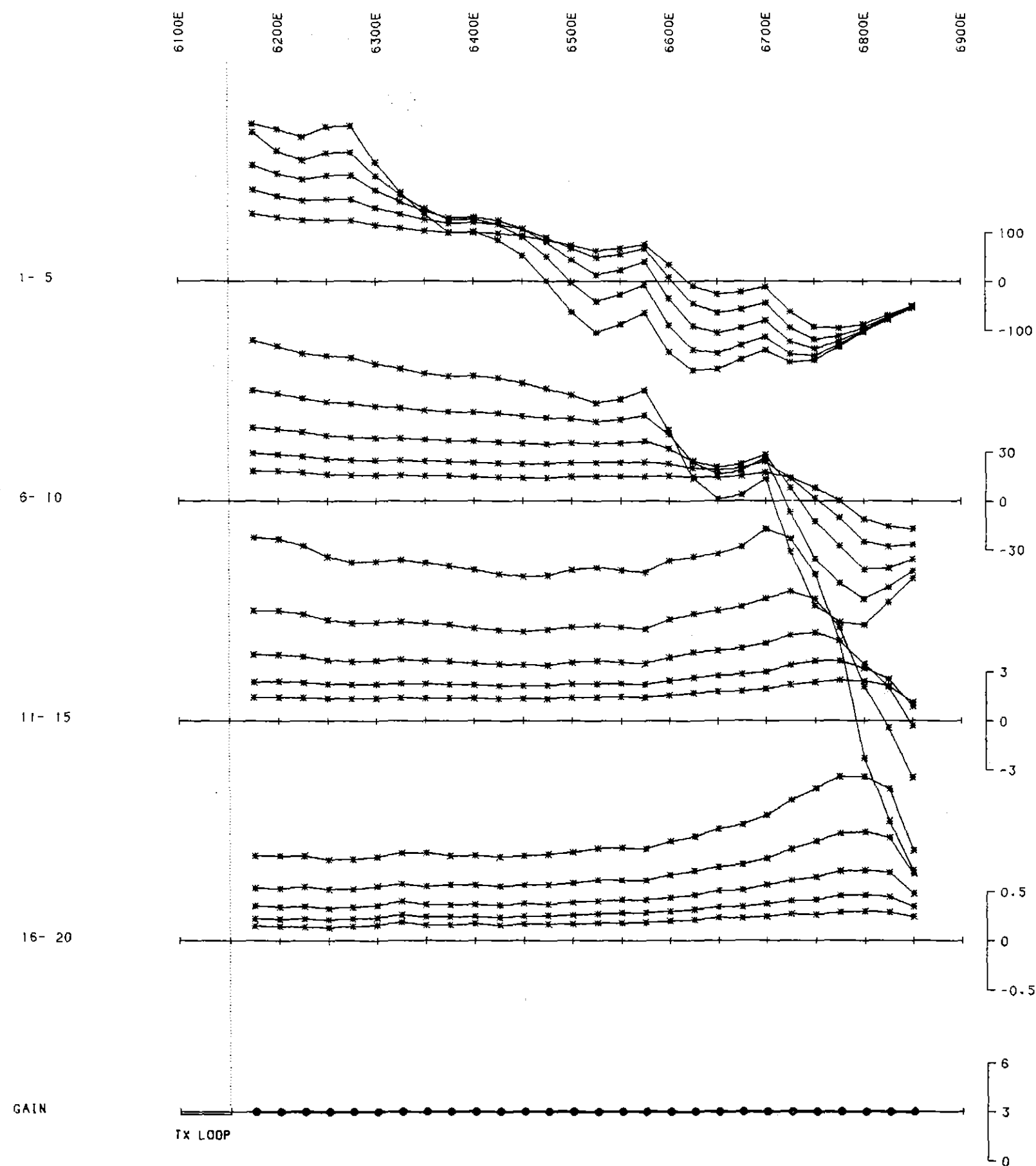
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NICKEL REWARD-VAUDEAU
 LINE : 6200N X

TX LOOP : 1
 Report No.: 20795

TV. 813

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

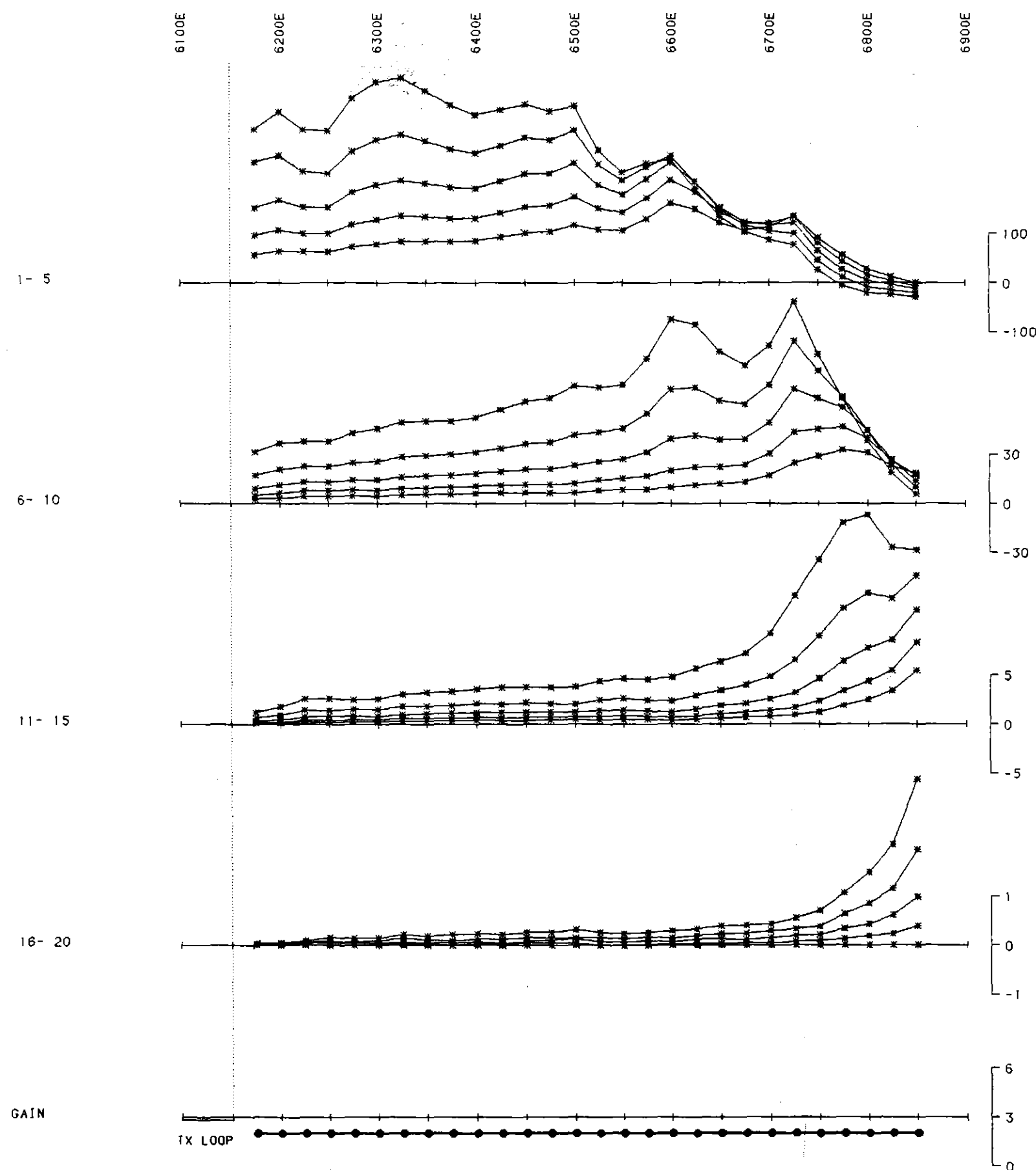
TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 280 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 13.9 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 22/03/1994

SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7300N Z
 TX LOOP : 2
 Report No.: 20795

TV 814

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 280 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 13.9 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 22/03/1994

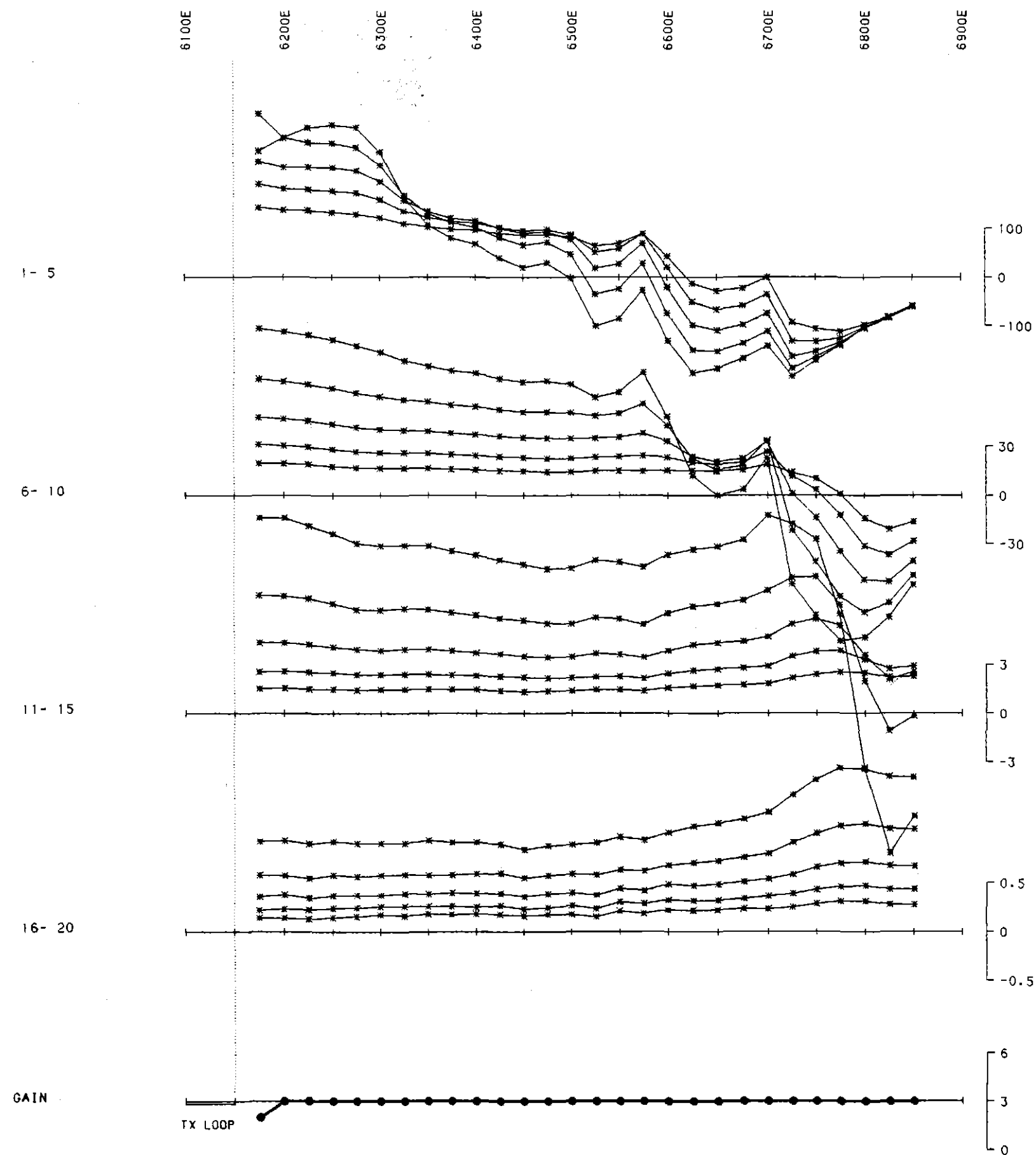
SURVEYED AND COMPILED BY
 GEOTERREX PTY. LTD. PROJECT NO.
 3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7300N X
 TX LOOP : 2

Report No.: 20795

TV 815

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 280 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 13.9 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 22/03/1994

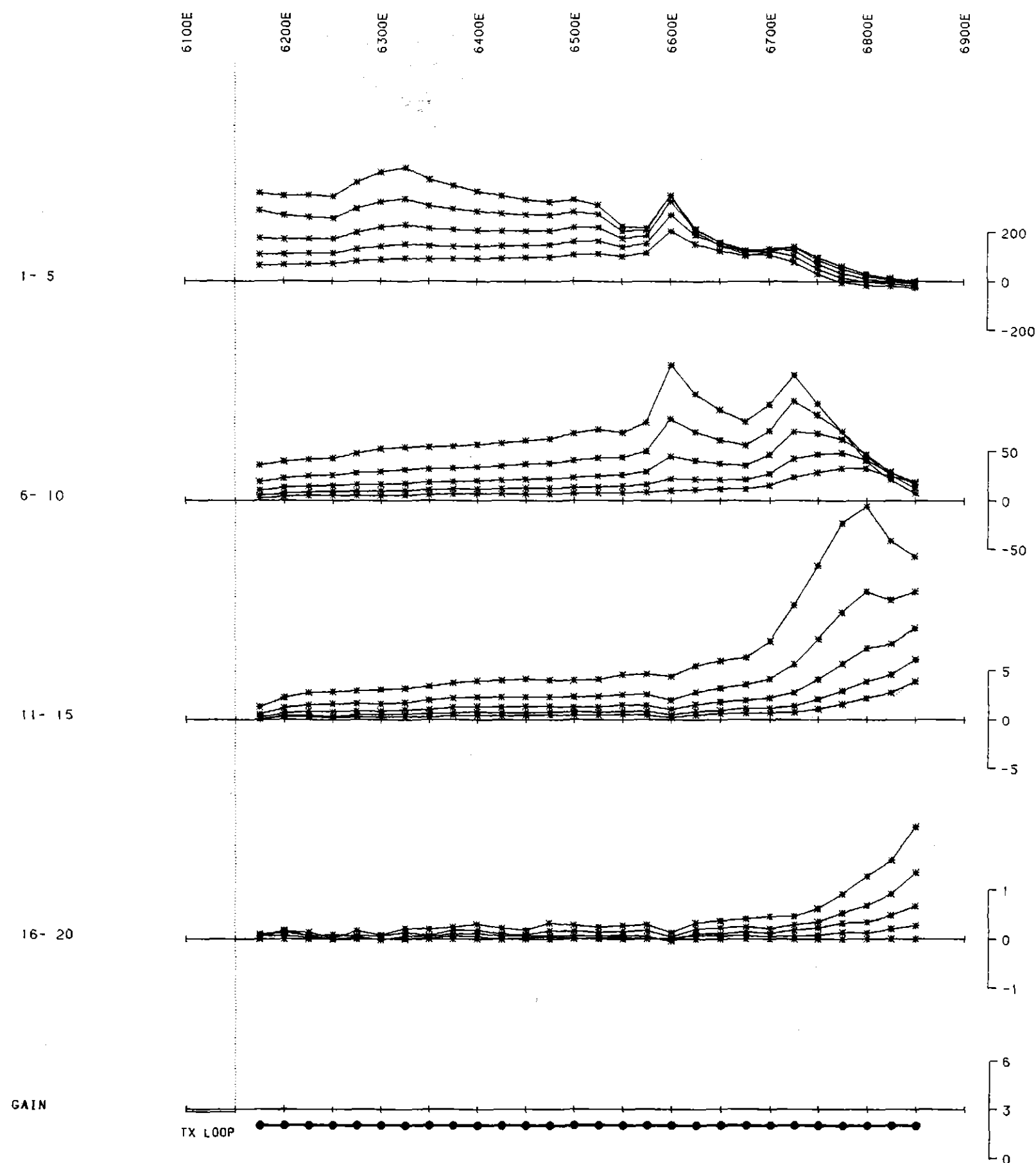
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7350N Z
 TX LOOP : 2

Report No.: 20795

TV 816

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 280 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 13.9 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 22/03/1994

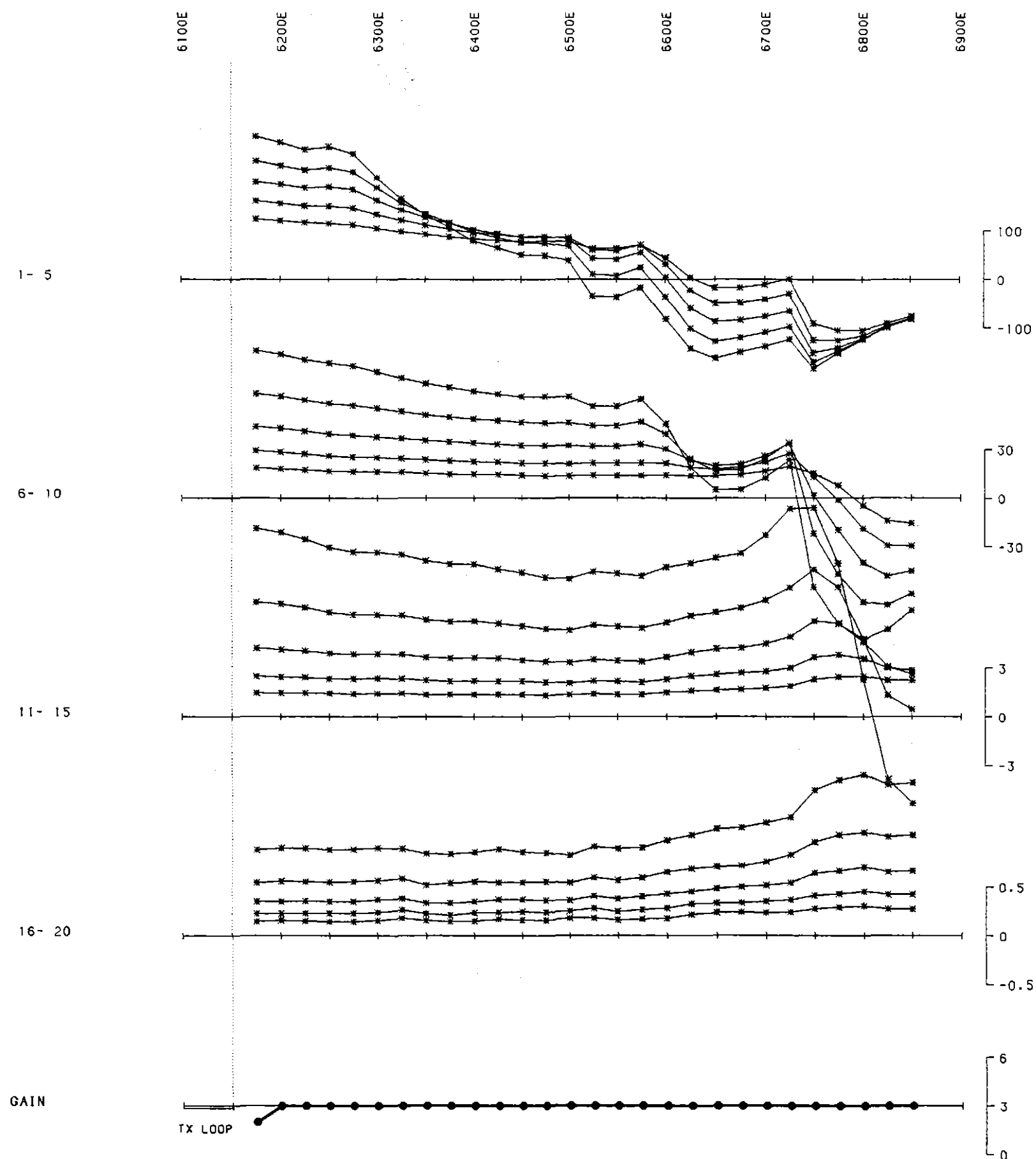
SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7350N X
 TX LOOP : 2
 Report No.: 20795

TV 817

305070

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 288 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 14.4 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 21/03/1994

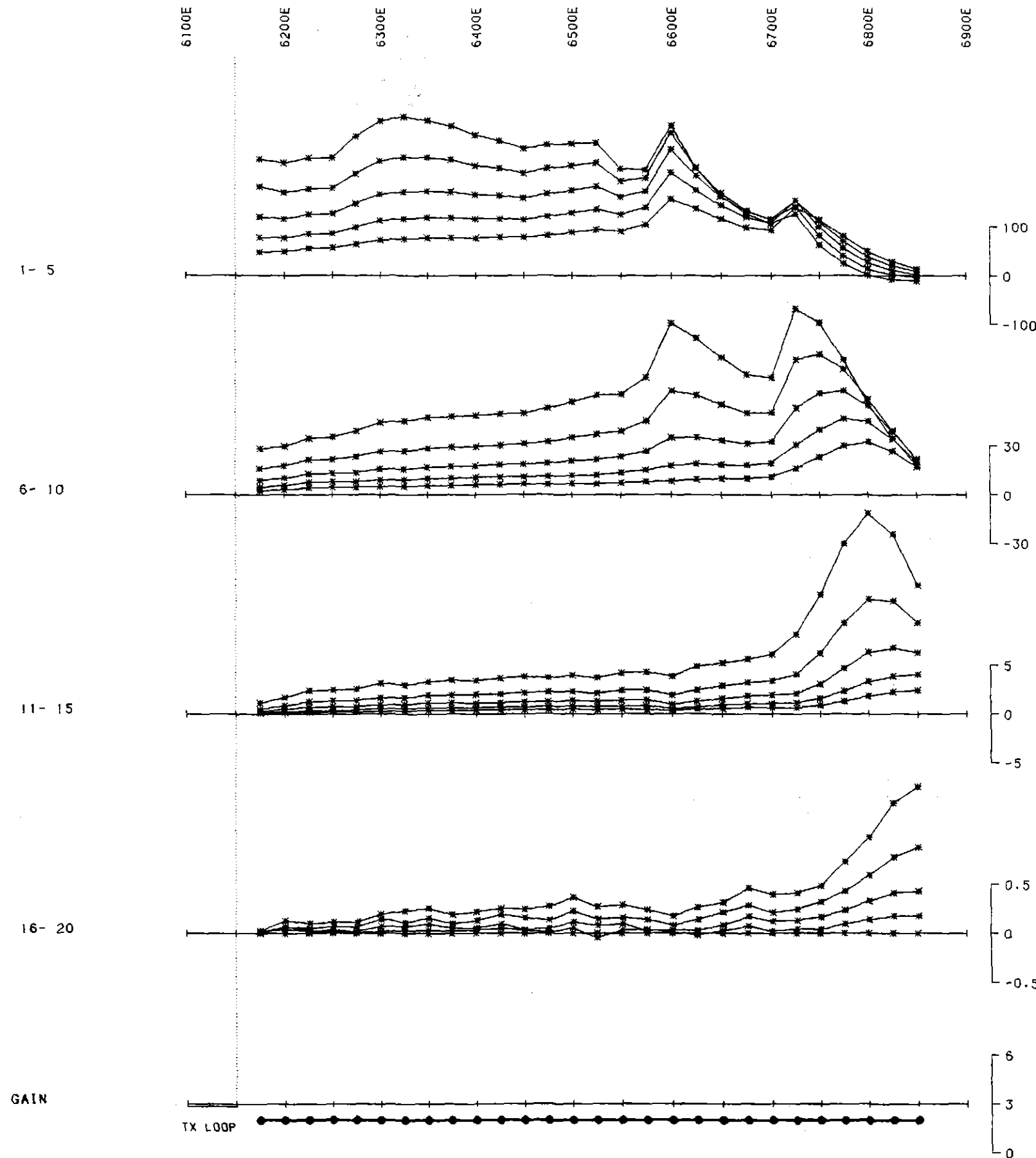
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7400N Z
 TX LOOP : 2

Report No.: 20785

TV 818

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEY

ELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
: 5368000N 361650E
TX LOOP SIZE : 700M X 500M
TX TURN OFF TIME : 288 MICROSECS.
FIRST GATE TIME : 88.
CURRENT : 14.4 AMPS
FREQUENCY : 25 HZ.
INTEGRATION TIME : 2048 CYCLES
SYNC MODE : CRYSTAL
HORIZONTAL SCALE : 1 : 5000
SURVEYED BY : DMA
DATE : 21/03/1994

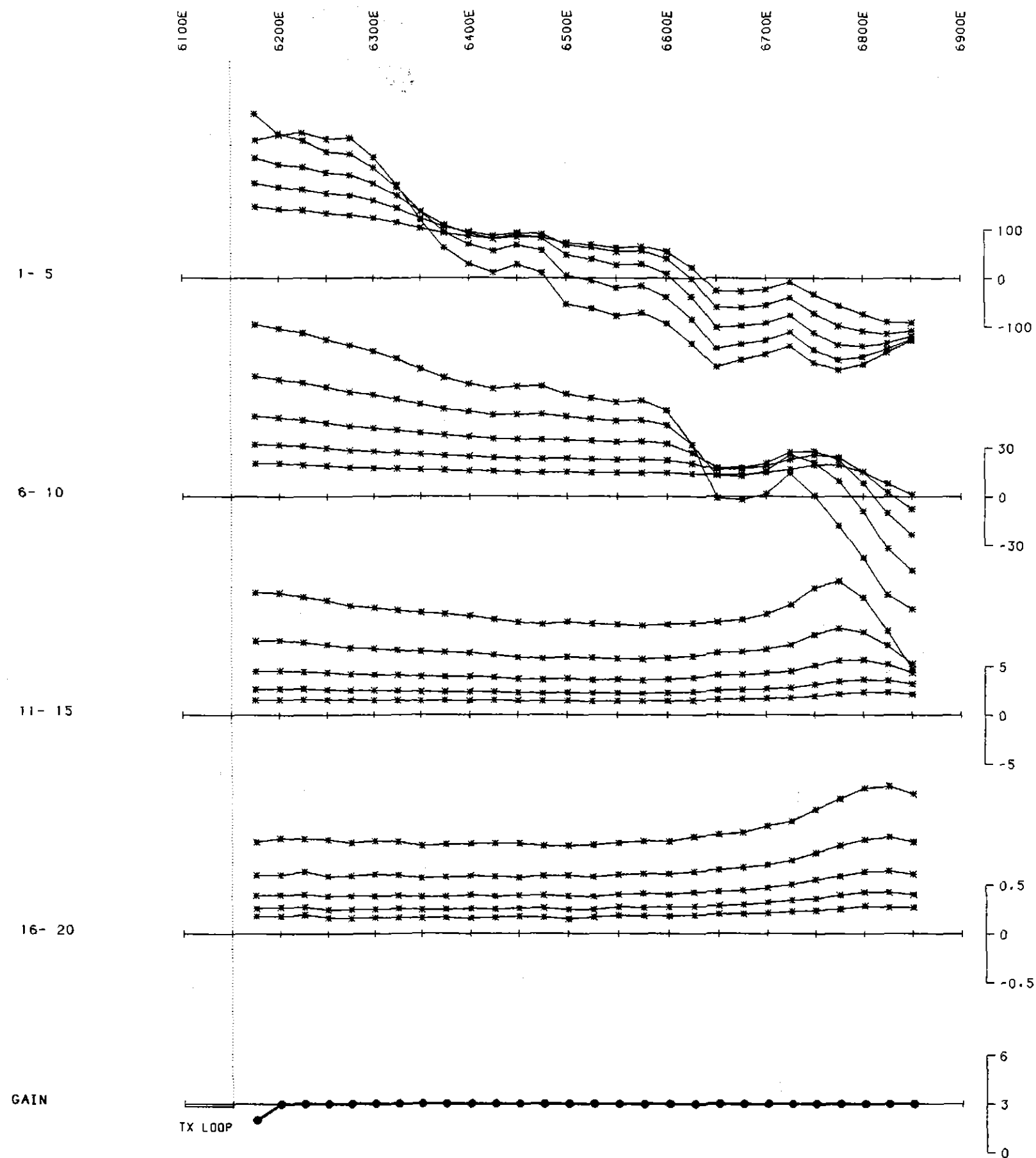
SURVEYED AND COMPILED BY : GEDTERREX PTY. LTD. PROJECT NO. : 3-817

CLIENT : CRA Exploration
PROJECT : MELBA FLATS EL43/92
AREA : NORTH CUNI
LINE : 7400N X
TX LOOP : 2

Report No.: 20795

TV 819

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 288 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 14.4 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 21/03/1994

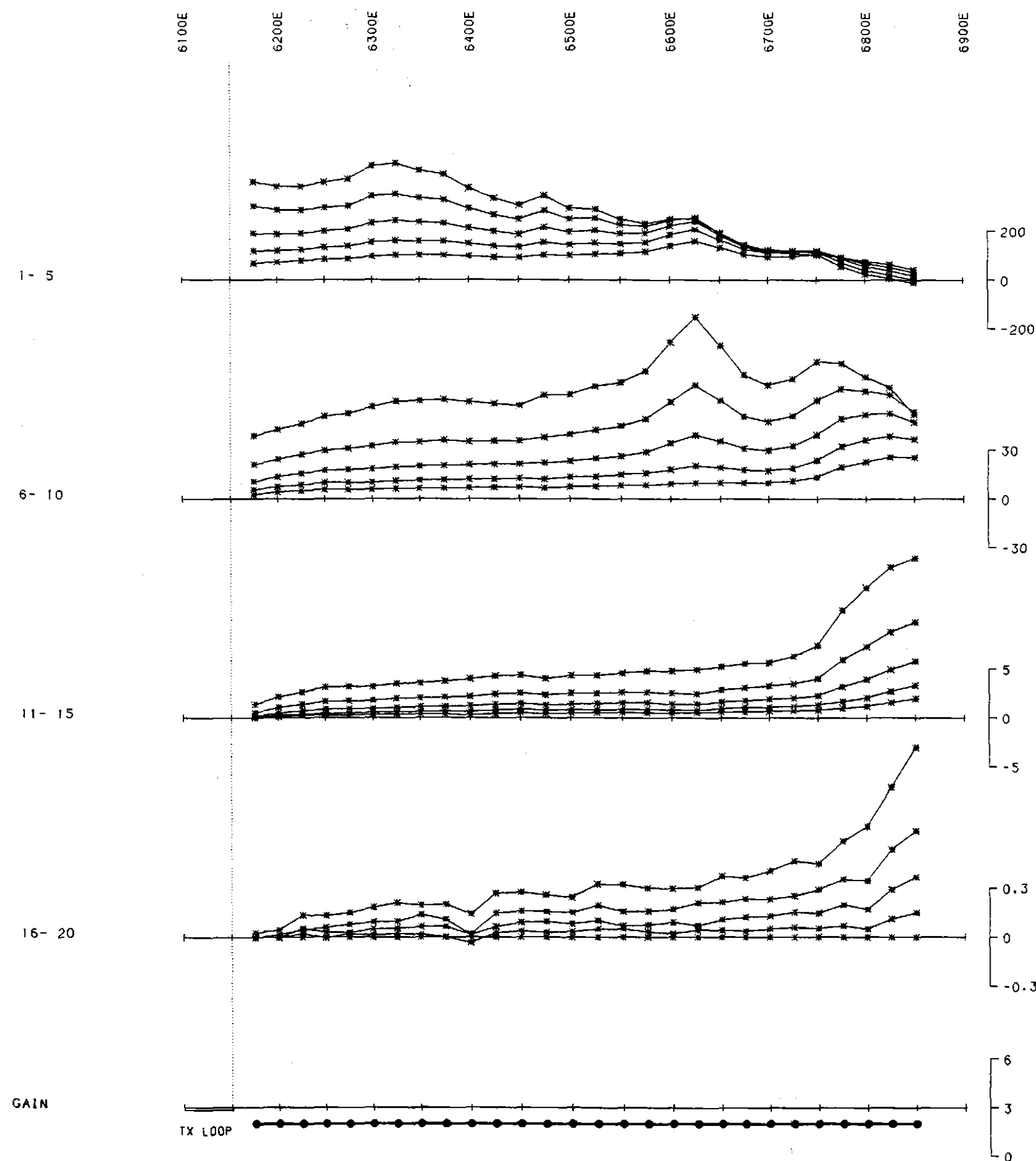
SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7450N Z
 TX LOOP : 2

Report No.: 20795

TV 820

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

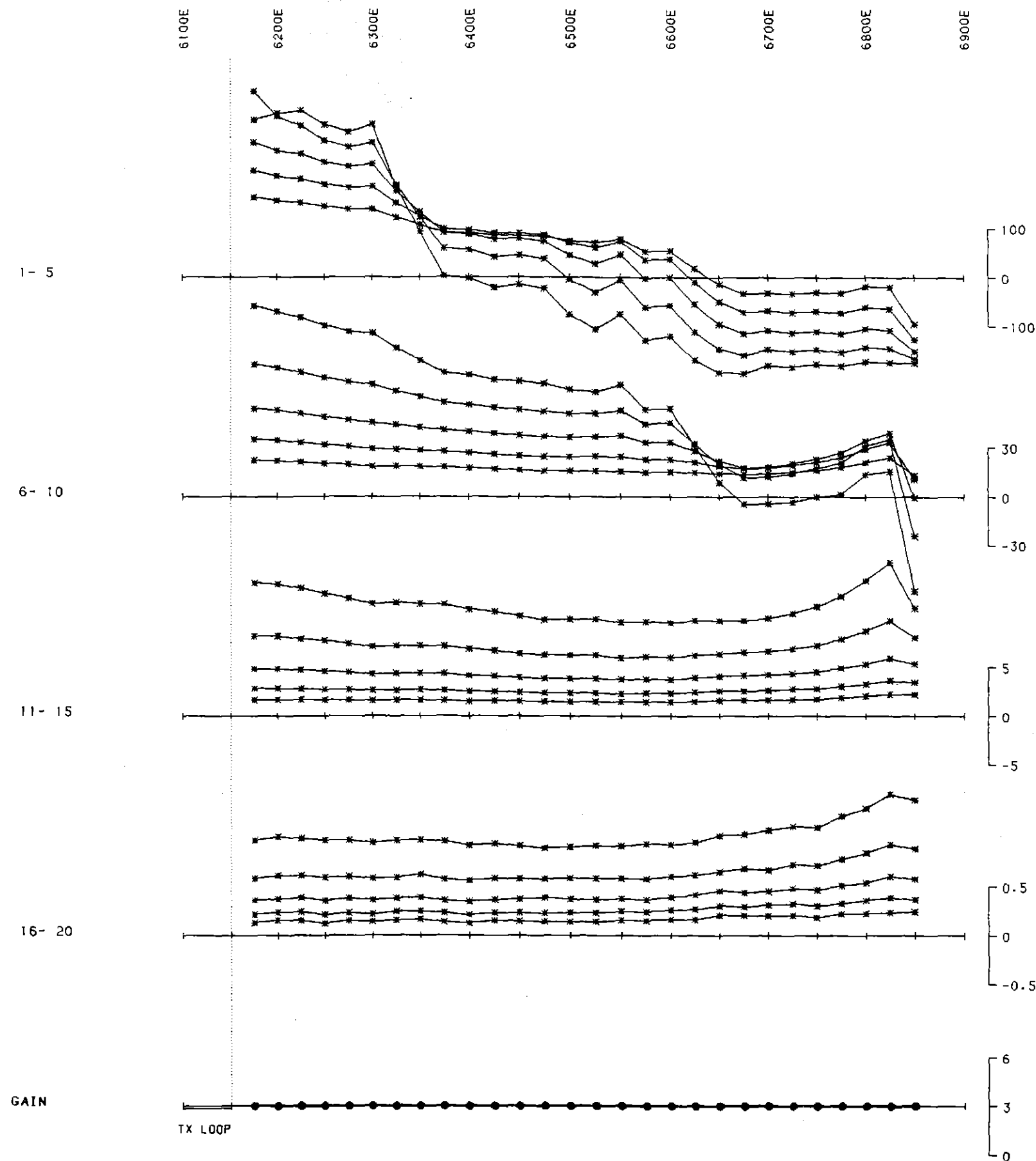
TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 288 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 14.4 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 21/03/1994

SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7450N X
 TX LOOP : 2
 Report No.: 20795

TV 821

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEY

ELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
: 5368000N 361650E
TX LOOP SIZE : 700M X 500M
TX TURN OFF TIME : 273 MICROSECS.
FIRST GATE TIME : 88.
CURRENT : 13.5 AMPS
FREQUENCY : 25 HZ.
INTEGRATION TIME : 2048 CYCLES
SYNC MODE : CRYSTAL
HORIZONTAL SCALE : 1: 5000
SURVEYED BY : DMA
DATE : 20/03/1994



SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.

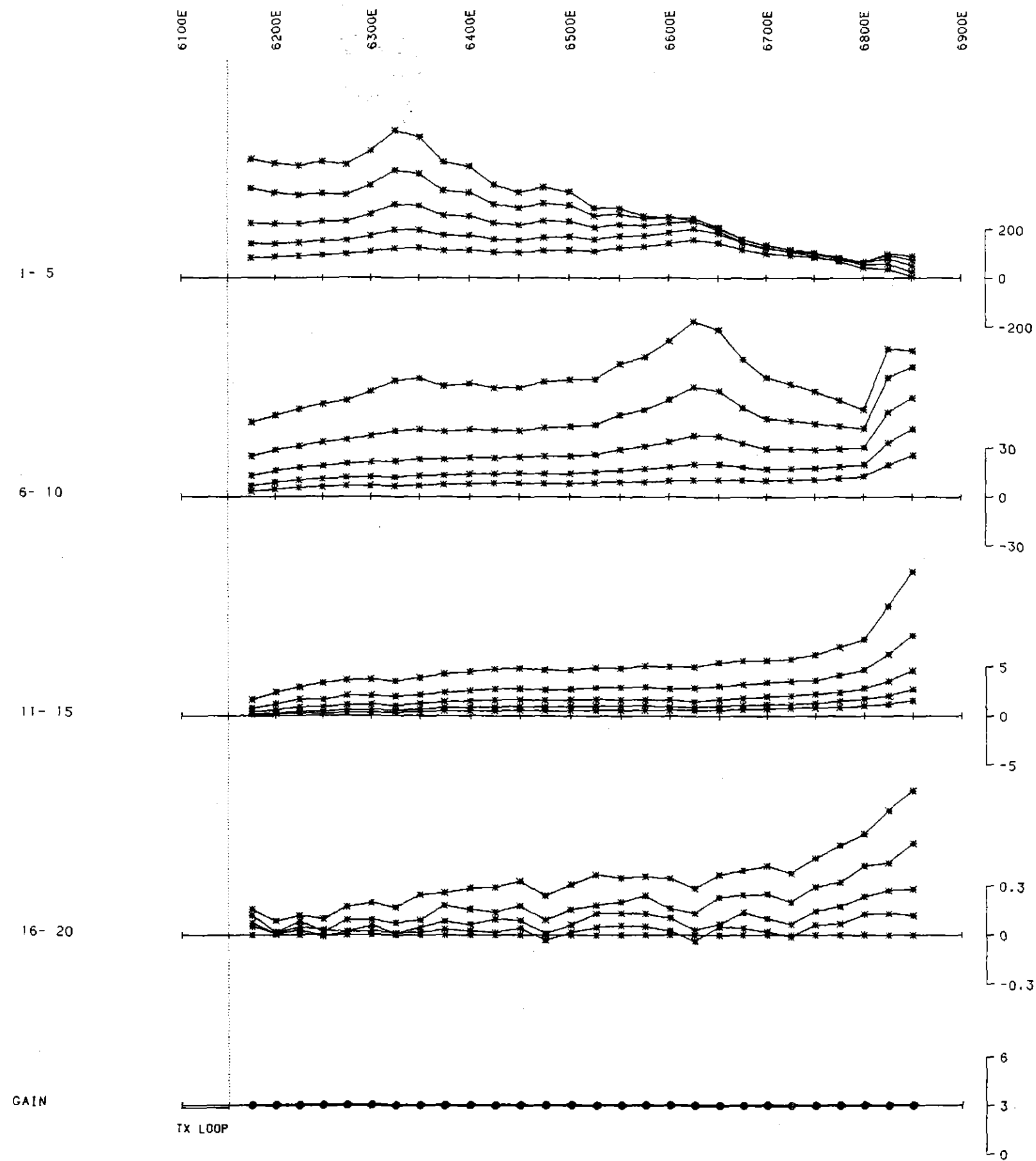
PROJECT NO.
3-817

CLIENT : CRA Exploration
PROJECT : MELBA FLATS EL43/92
AREA : NORTH CUNI
LINE : 7500N Z
TX LOOP : 2

Report No.: 20795

TV 822

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 273 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 13.5 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 20/03/1994

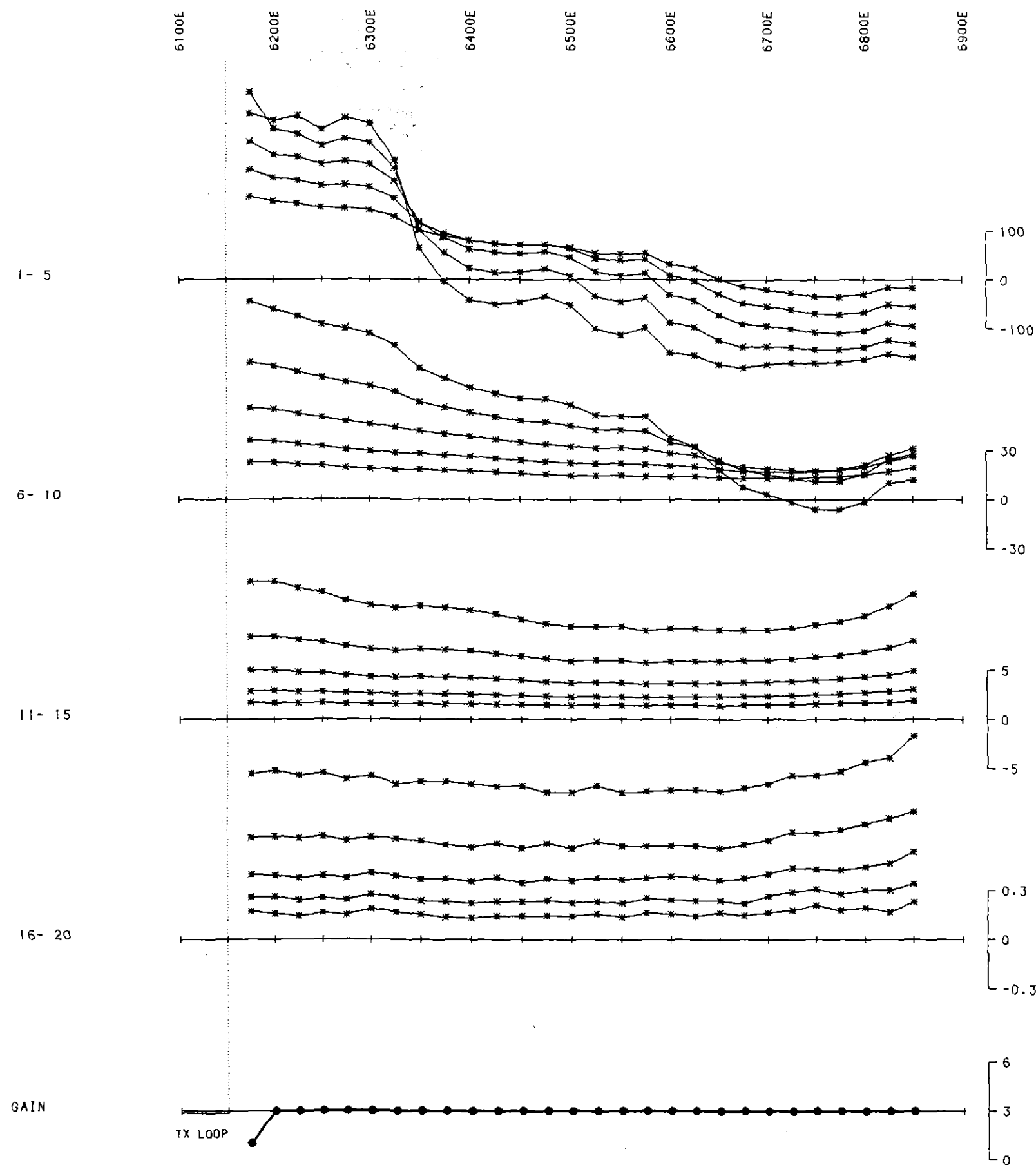
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNT
 LINE : 7500N X
 TX LOOP : 2

Report No.: 20795

TV 823

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

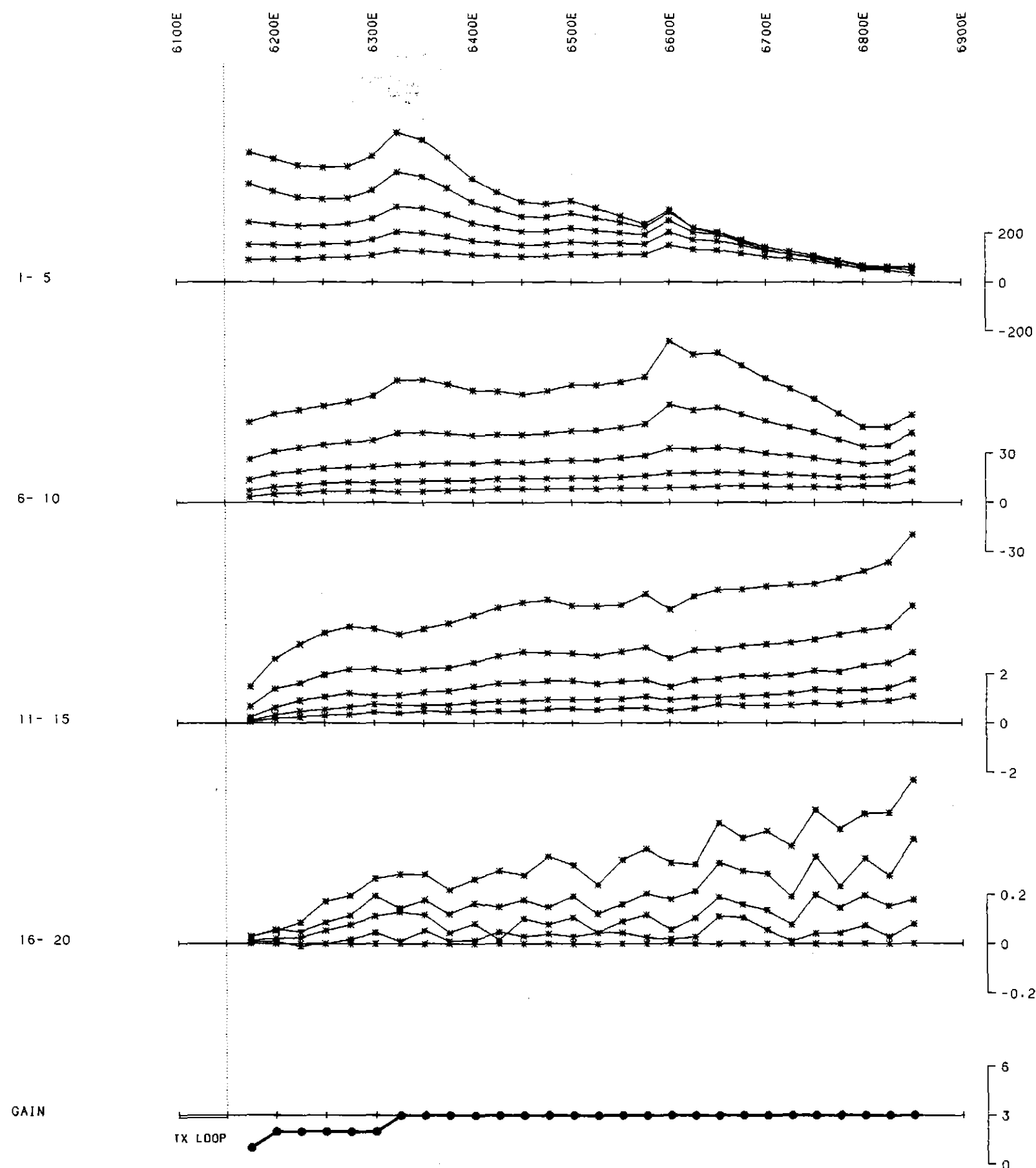
TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 273 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 13.5 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 20/03/1994

SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7550N Z
 TX LOOP : 2
 Report No.: 20795

TV 824

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 273 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 13.5 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 20/03/1994

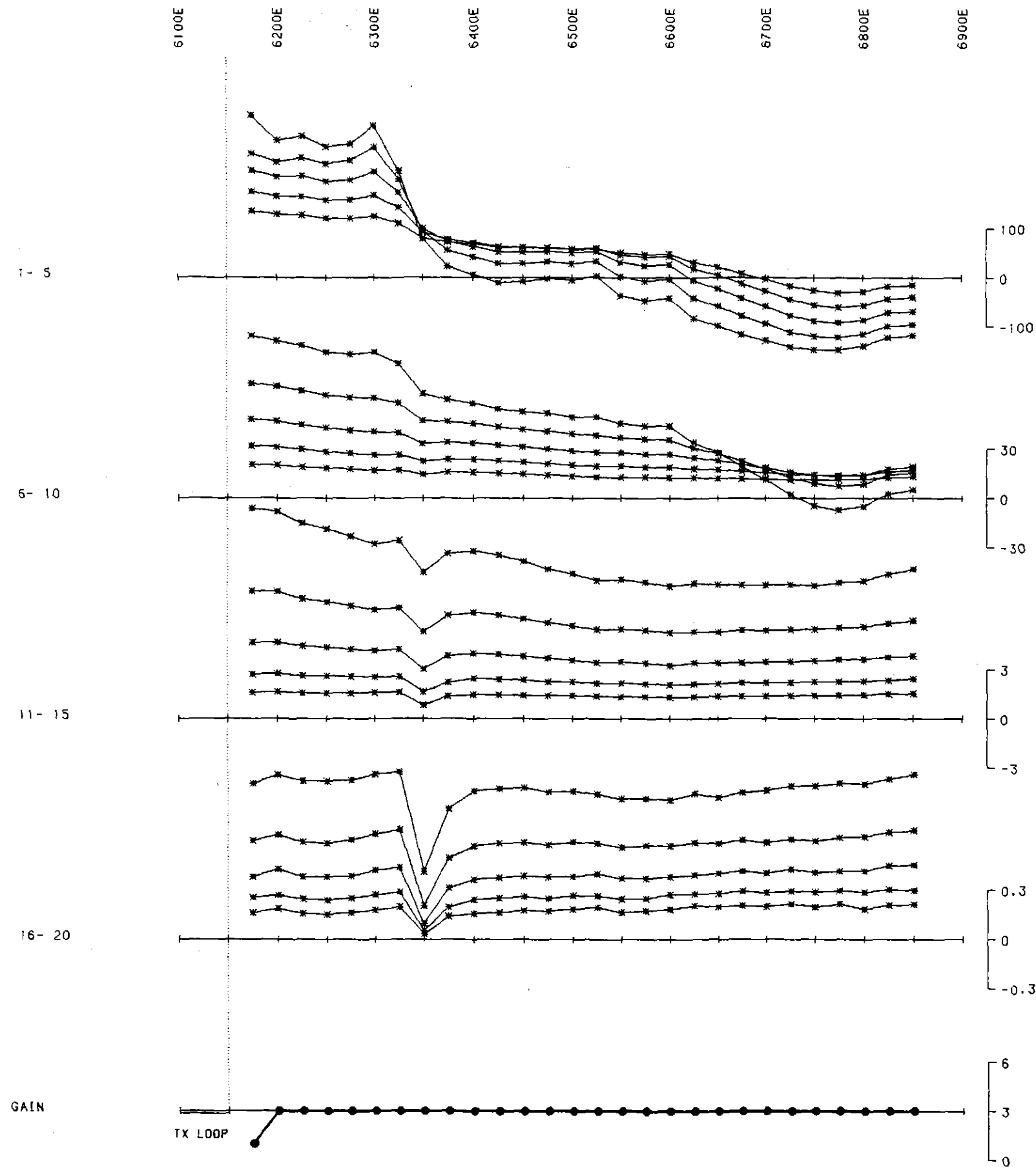
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7550N
 TX LOOP : 2

Report No.: 20795

X
TV 825

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 288 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 14.1 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 20/03/1994

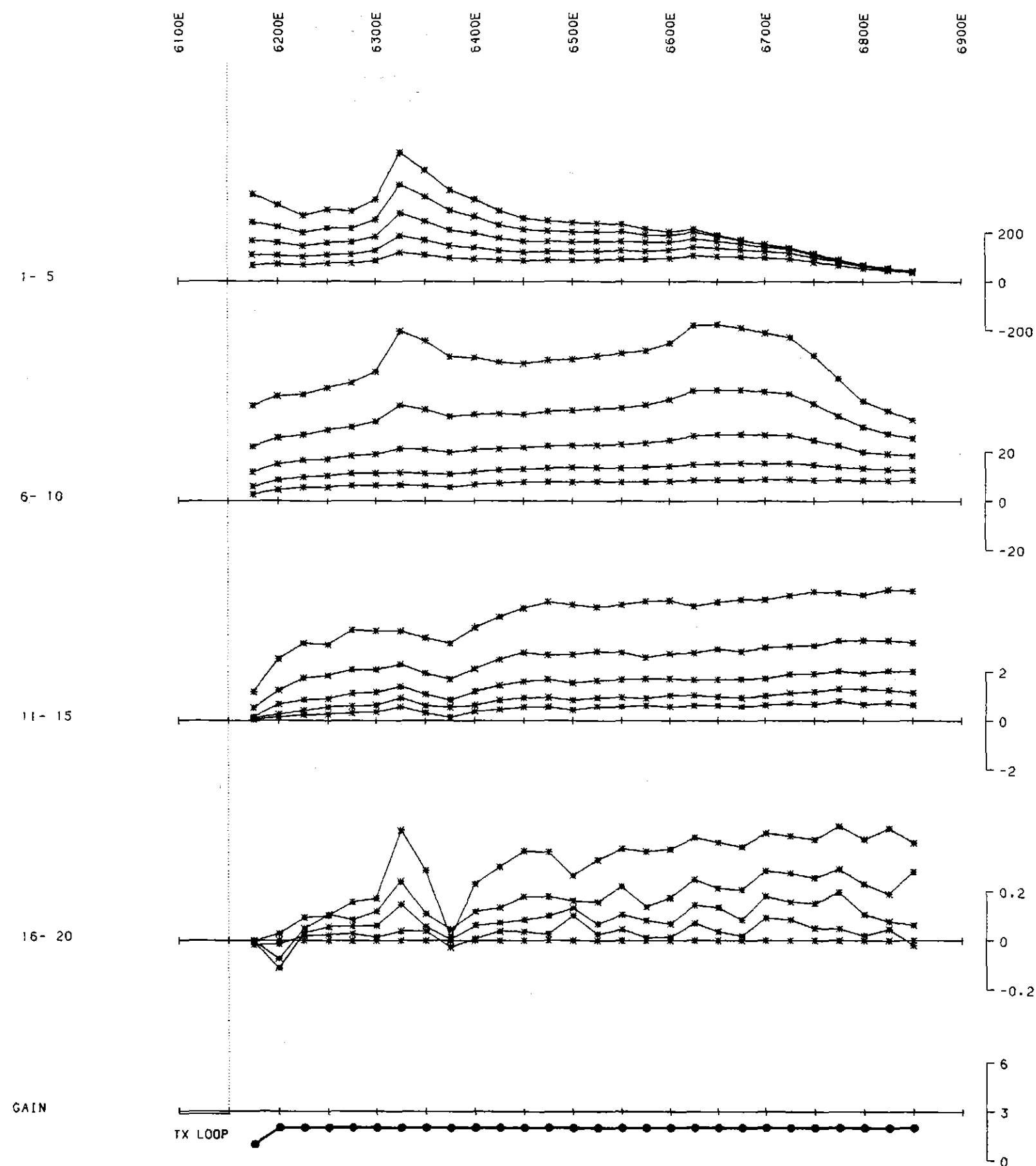
SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7600N
 TX LOOP : 2

TV 826

Report No.: 20785

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

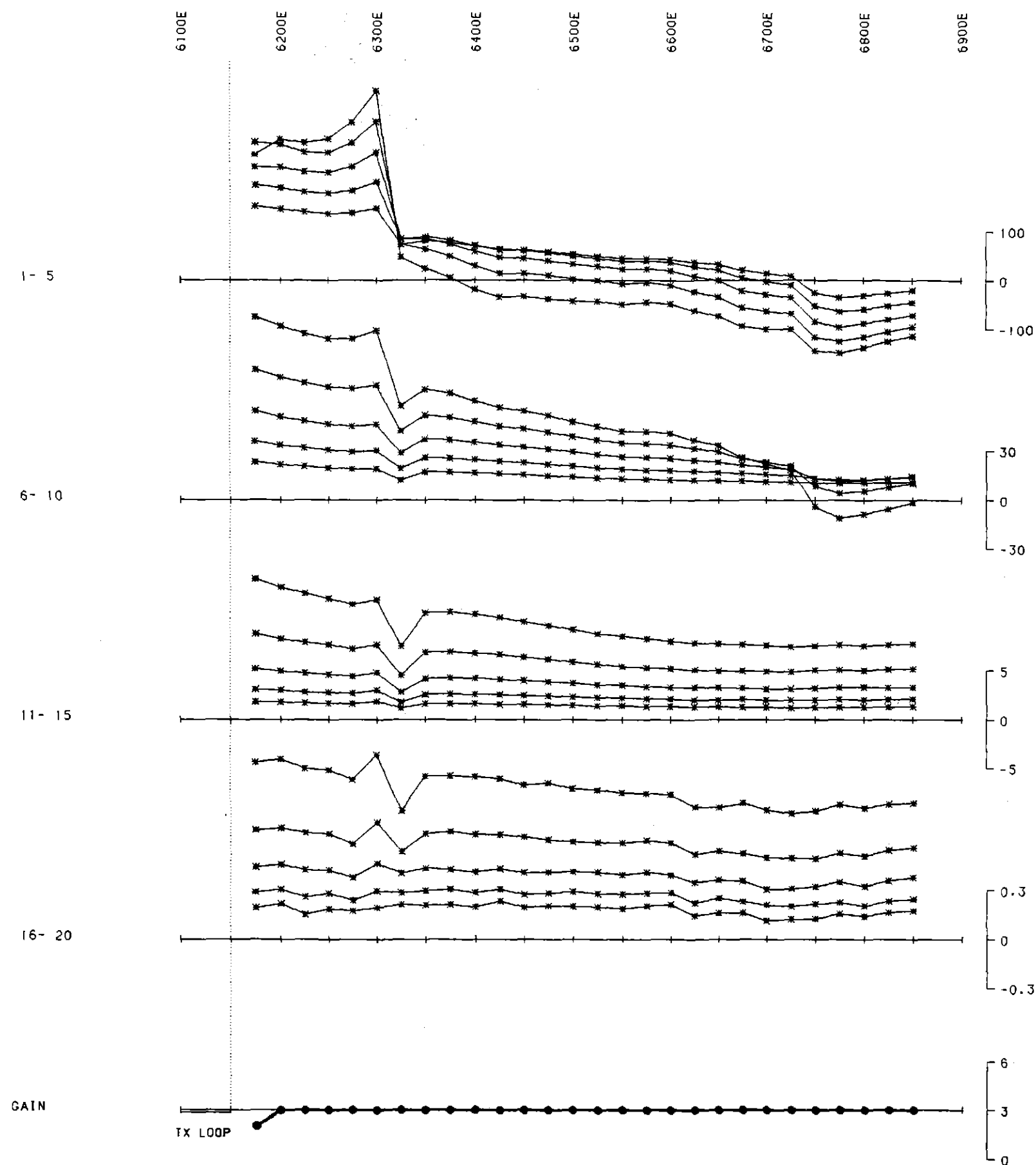
TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 288 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 14.1 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1 : 5000
 SURVEYED BY : DMA
 DATE : 20/03/1994

SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7600N X
 TX LOOP : 2
 Report No.: 20795

TV 827

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 288 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 14.1 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 20/03/1994

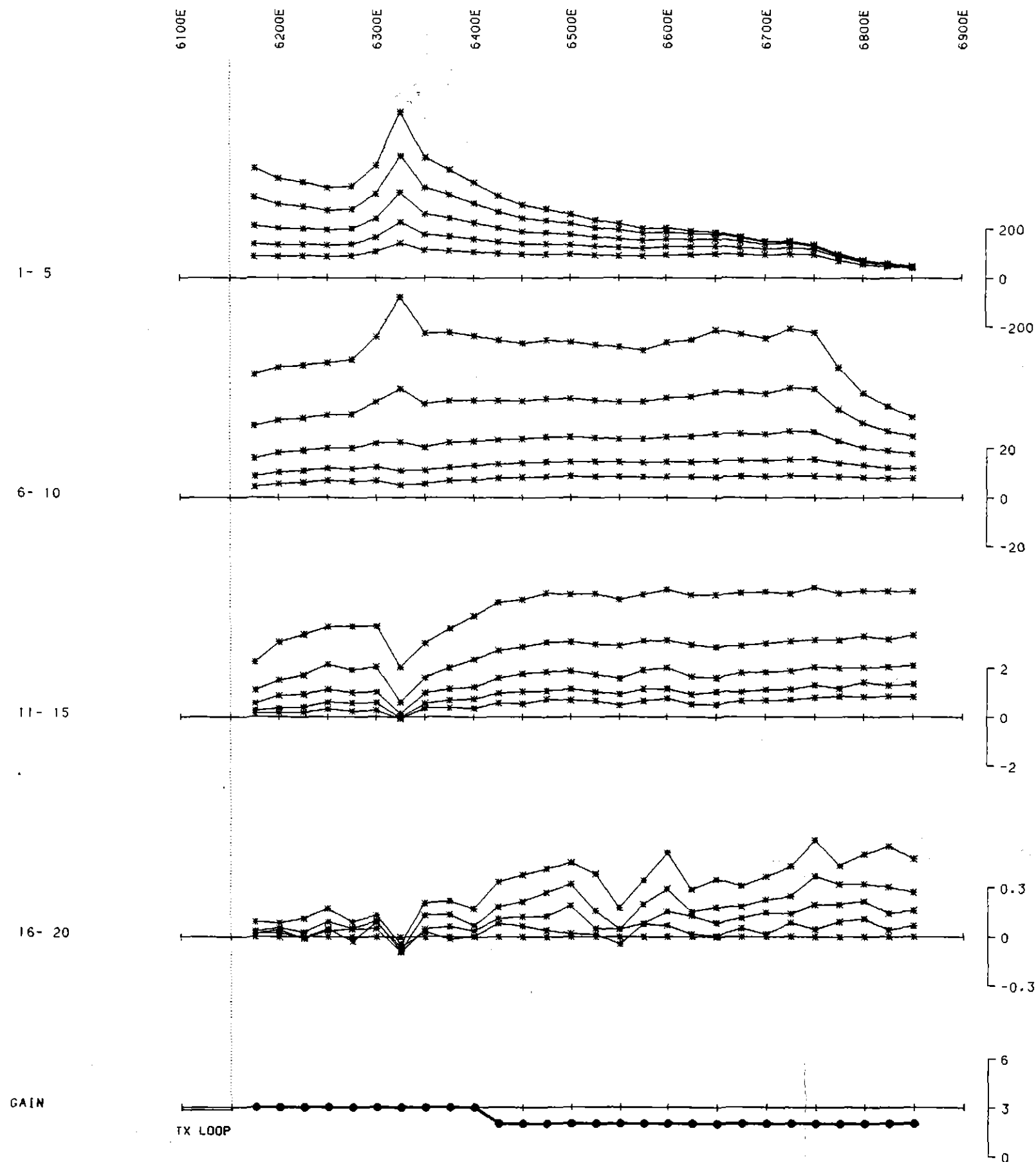
SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7650N
 TX LOOP : 2

Z
TV 828

Report No. 120705

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

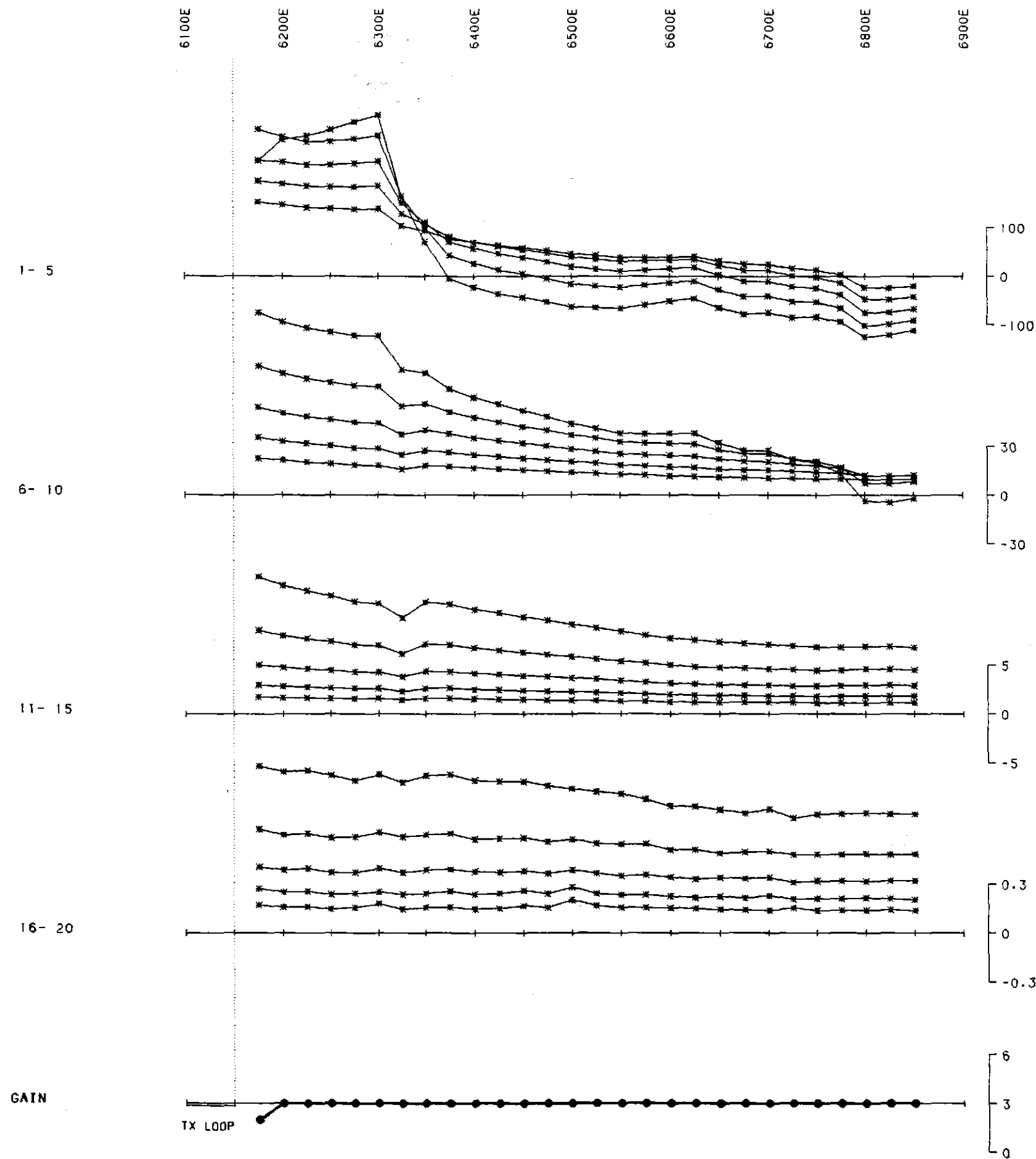
TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 288 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 14.1 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 20/03/1994

SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNT
 LINE : 7650N X
 TX LOOP : 2
 Report No.: 20705

TV 829

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEY

ELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
: 5368000N 361650E
TX LOOP SIZE : 700M X 500M
TX TURN OFF TIME : 274 MICROSECS.
FIRST GATE TIME : 88.
CURRENT : 13.9 AMPS
FREQUENCY : 25 HZ.
INTEGRATION TIME : 2048 CYCLES
SYNC MODE : CRYSTAL
HORIZONTAL SCALE : 1 : 5000
SURVEYED BY : DMA
DATE : 21/03/1994

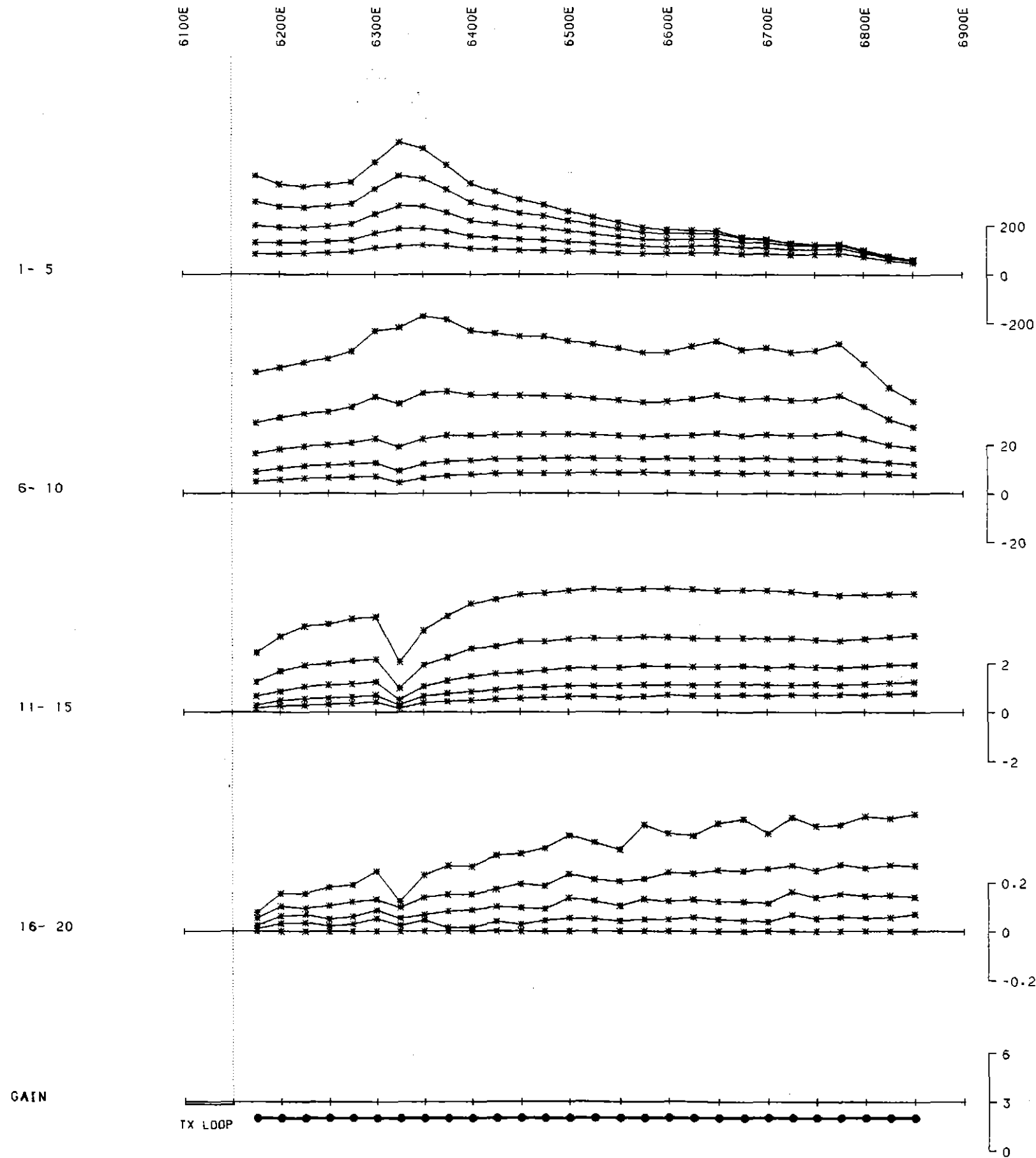
SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD. PROJECT NO.
3-817

CLIENT : CRA Exploration
PROJECT : MELBA FLATS EL43/92
AREA : NORTH CUNT
LINE : 7700N Z
TX LOOP : 2

Report No.: 20785

TV 830

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEY

ELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
: 5368000N 361650E
TX LOOP SIZE : 700M X 500M
TX TURN OFF TIME : 274 MICROSECS.
FIRST GATE TIME : 88.
CURRENT : 13.9 AMPS
FREQUENCY : 25 HZ.
INTEGRATION TIME : 2048 CYCLES
SYNC MODE : CRYSTAL
HORIZONTAL SCALE : 1: 5000
SURVEYED BY : DMA
DATE : 21/03/1994



SURVEYED AND COMPILED BY
GEDTERREX PTY. LTD.

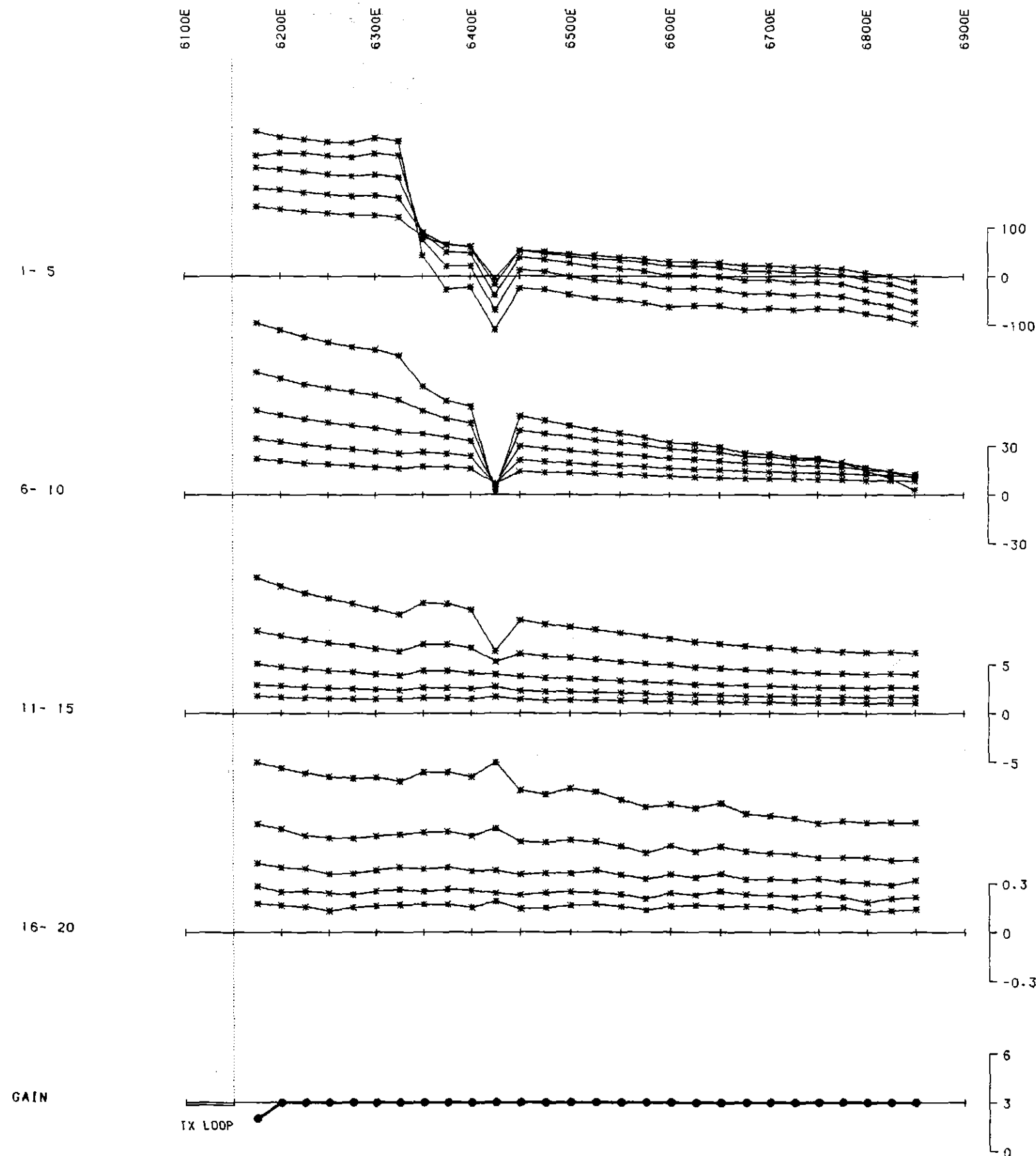
PROJECT NO.
3-817

CLIENT : CRA Exploration
PROJECT : MELBA FLATS EL43/92
AREA : NORTH CUNI
LINE : 7700N X
TX LOOP : 2

Report No.: 20795

TV 831

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 274 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 13.9 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 21/03/1994

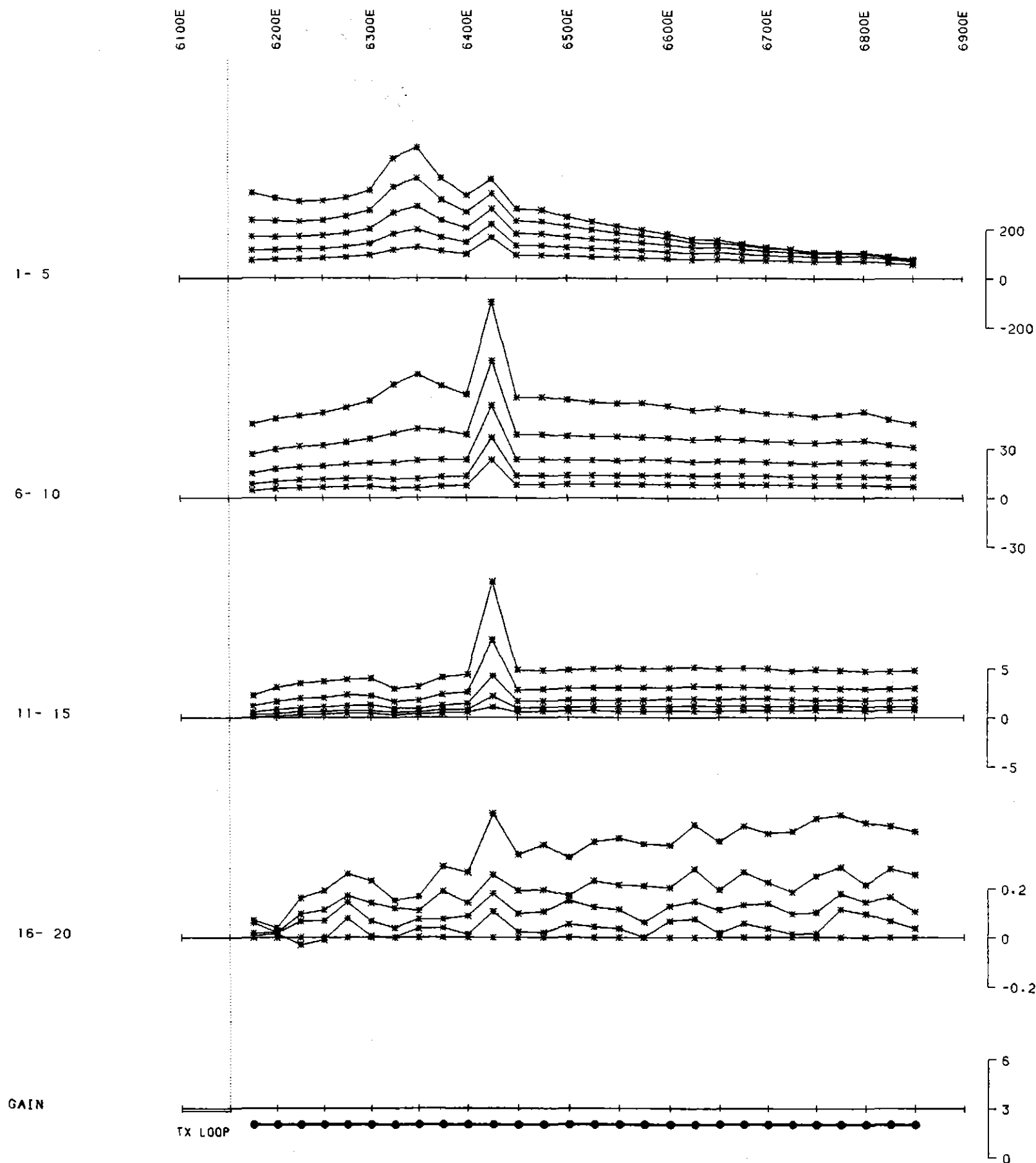
SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7750N Z
 TX LOOP : 2

Report No.: 20795

TV 832

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 274 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 13.9 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 21/03/1994

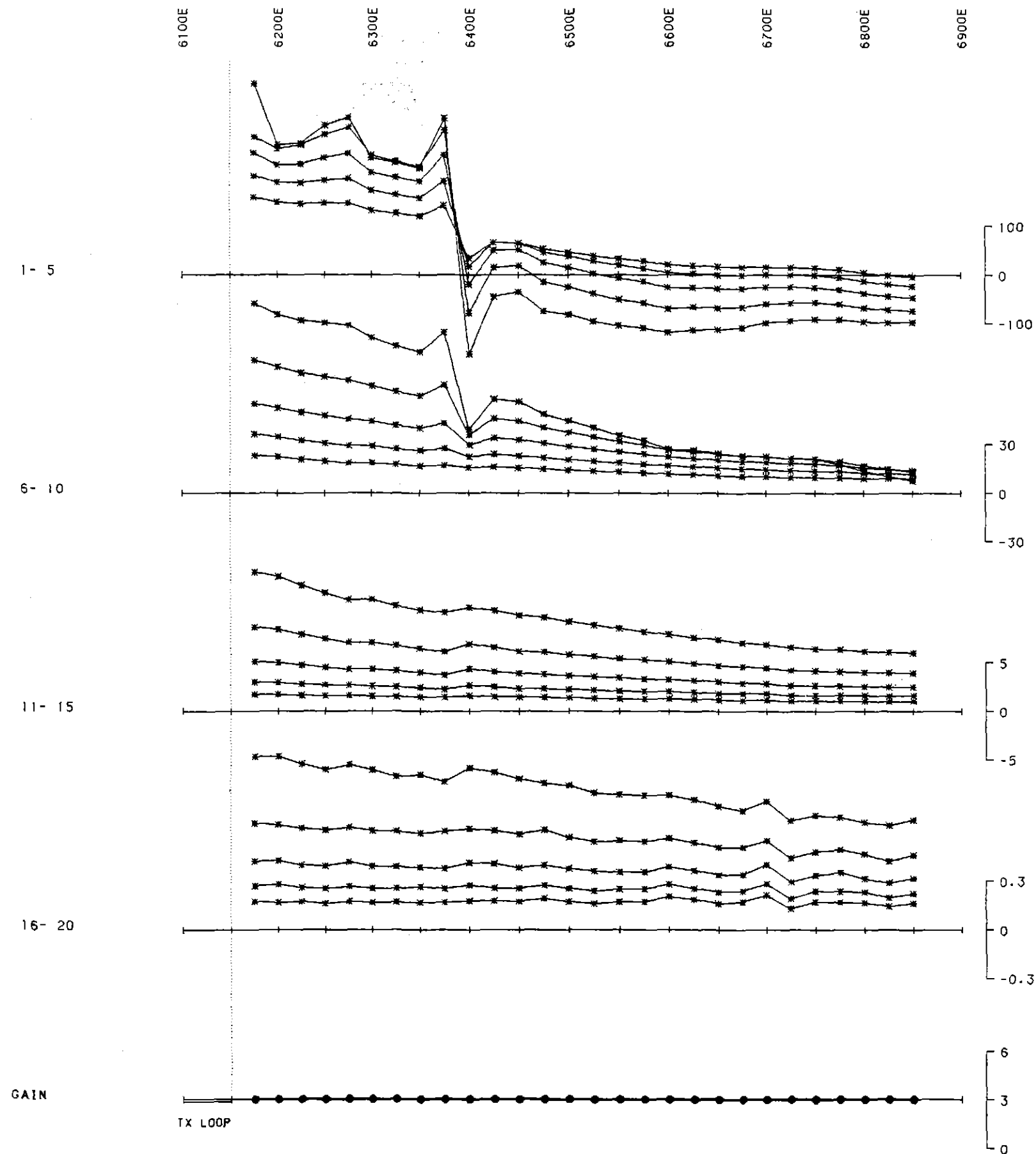
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7750N X
 TX LOOP : 2

Report No.: 20795

TV 833

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 269 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 13.6 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 22/03/1994

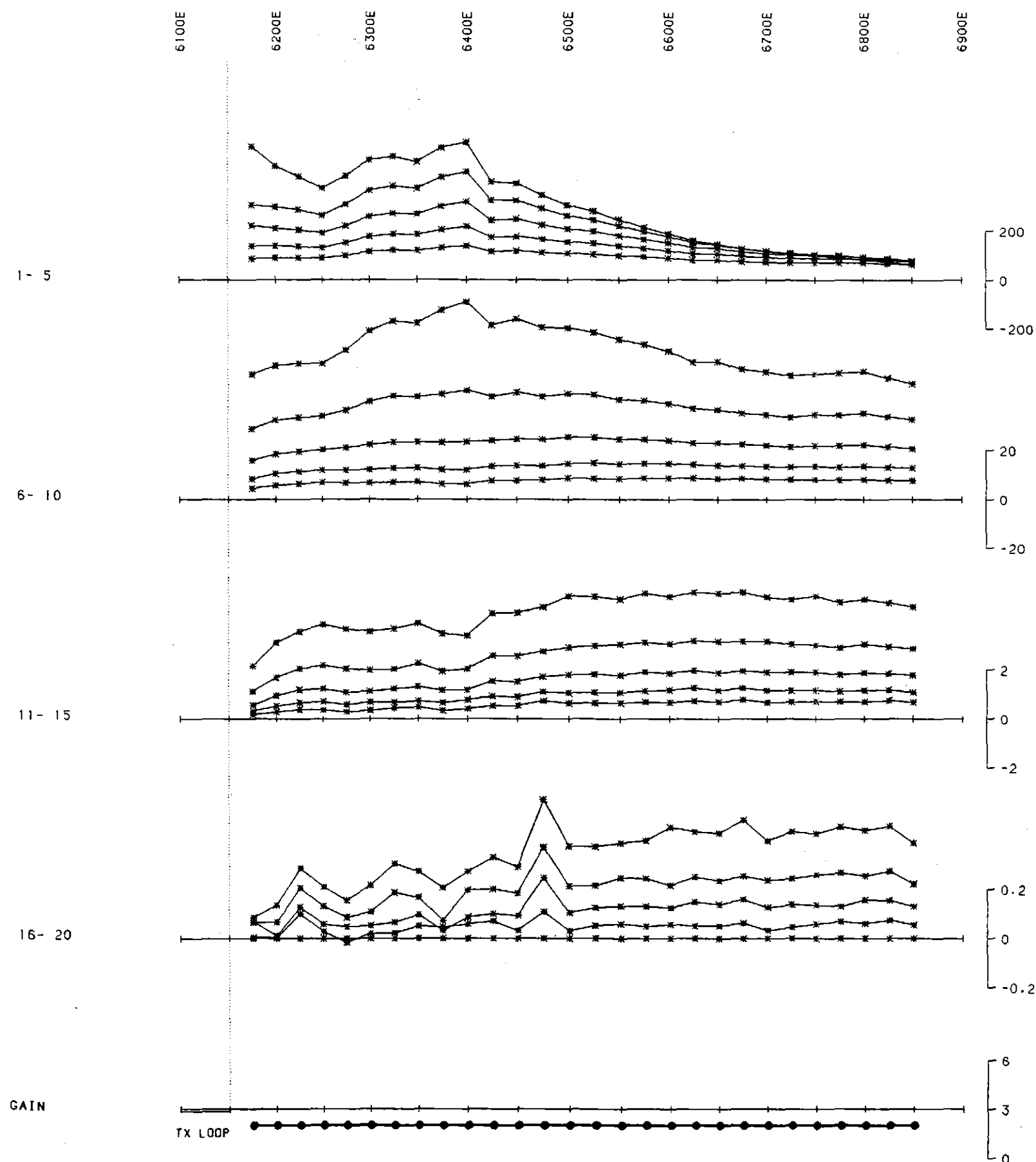
SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7800N Z
 TX LOOP : 2

Report No.: 20795

TV 834

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 269 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 13.6 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 22/03/1994

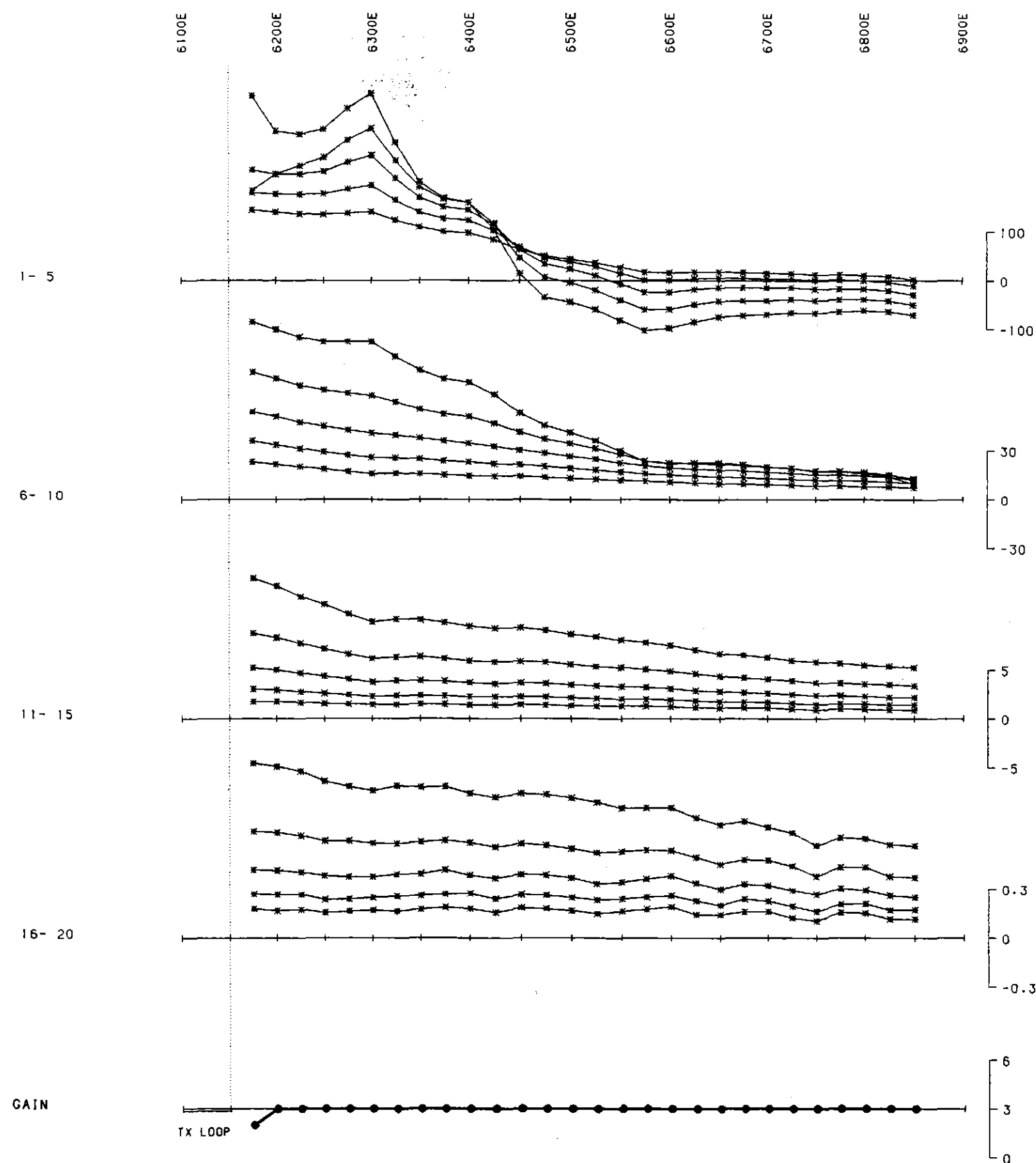
SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7800N X
 TX LOOP : 2
 Report No.: 20795

TV 835

305088

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 270 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 13.4 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1 : 5000
 SURVEYED BY : DMA
 DATE : 23/03/1994

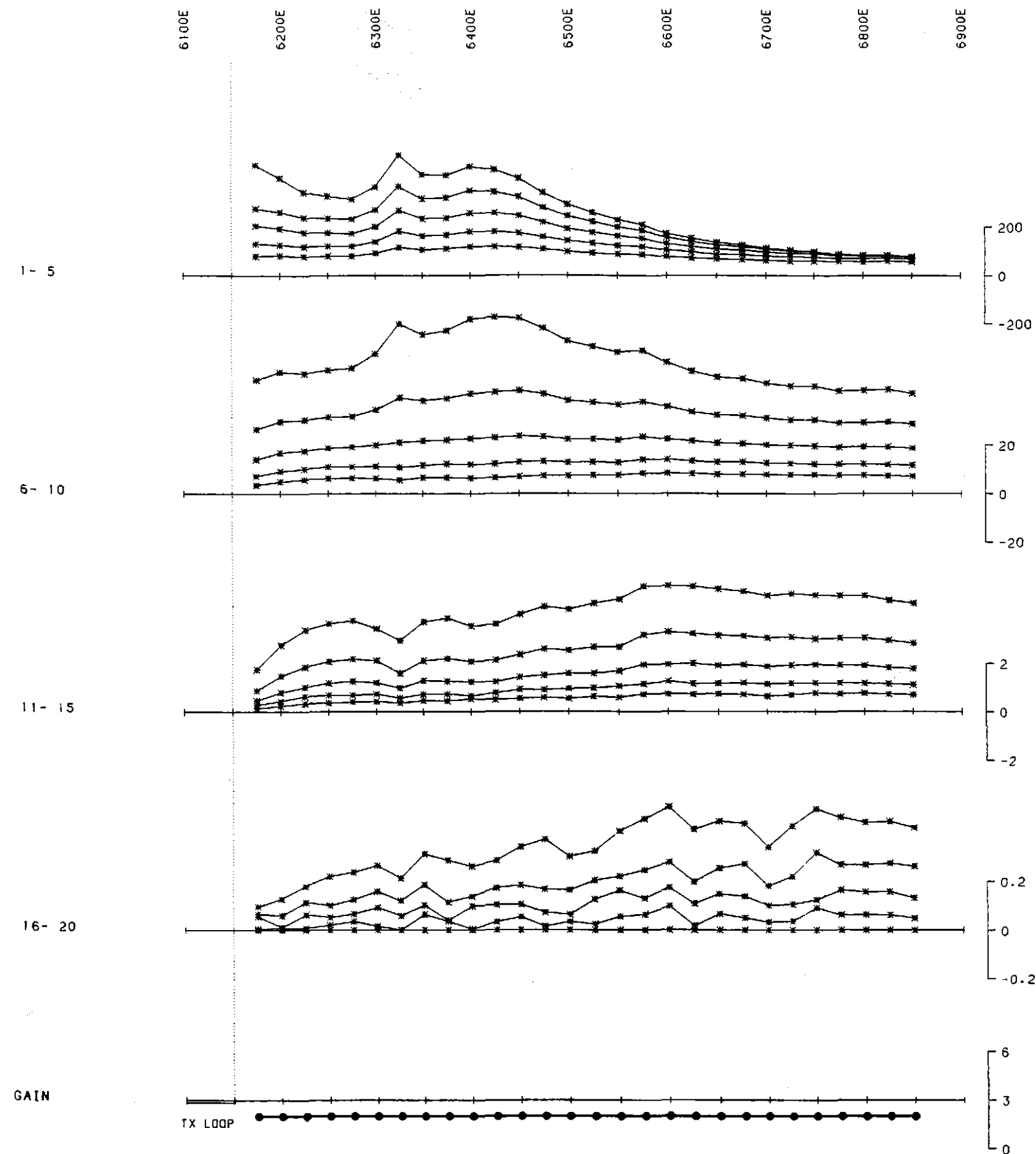
SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7850N
 TX LOOP : 2

Report No.: 20795

TV 836

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 270 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 13.4 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 23/03/1994

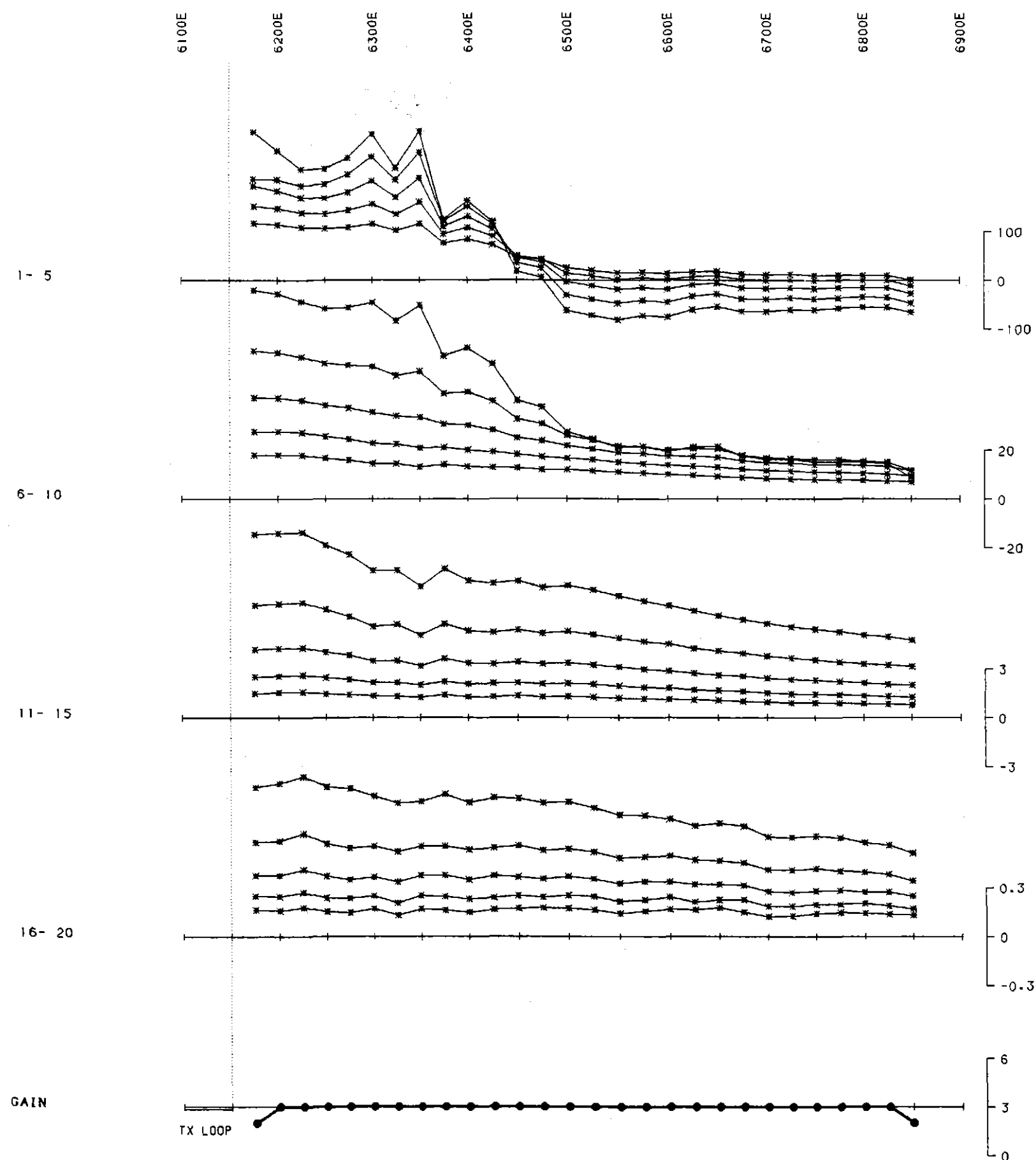
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7850N X
 TX LOOP : 2

Report No.: 20795

TV 837

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 270 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 13.4 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 23/03/1994

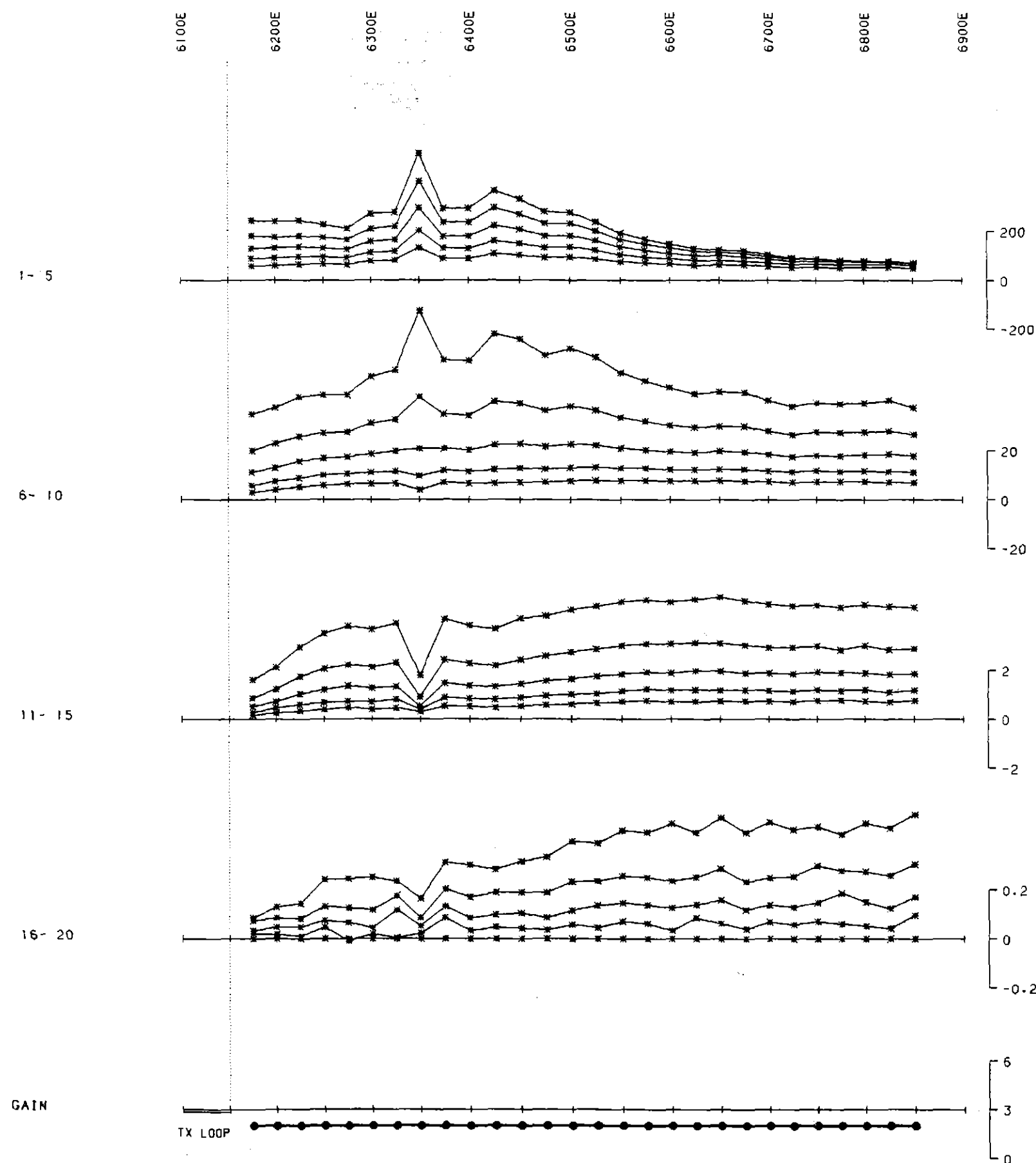
SURVEYED AND COMPILED BY : GEOTERREX PTY. LTD. PROJECT NO. 3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7900N
 TX LOOP : 2

Report No: 20795

TV 838

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 270 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 13.4 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 23/03/1994

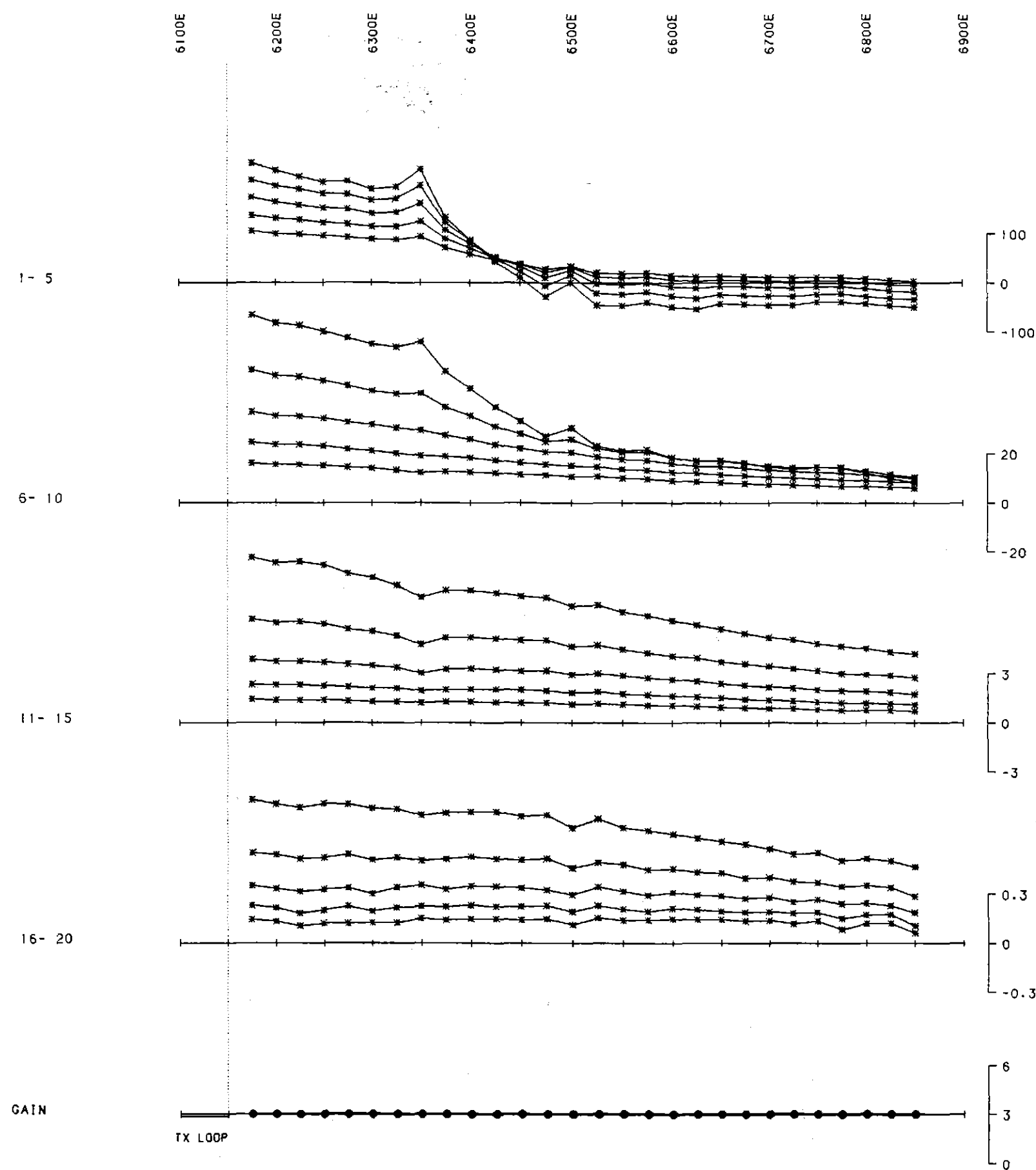
SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7900N X
 TX LOOP : 2

Report No.: 20795

TV 839

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

nanovolts per amp metre squared

5 cm

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 285 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 14.0 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 20/03/1994

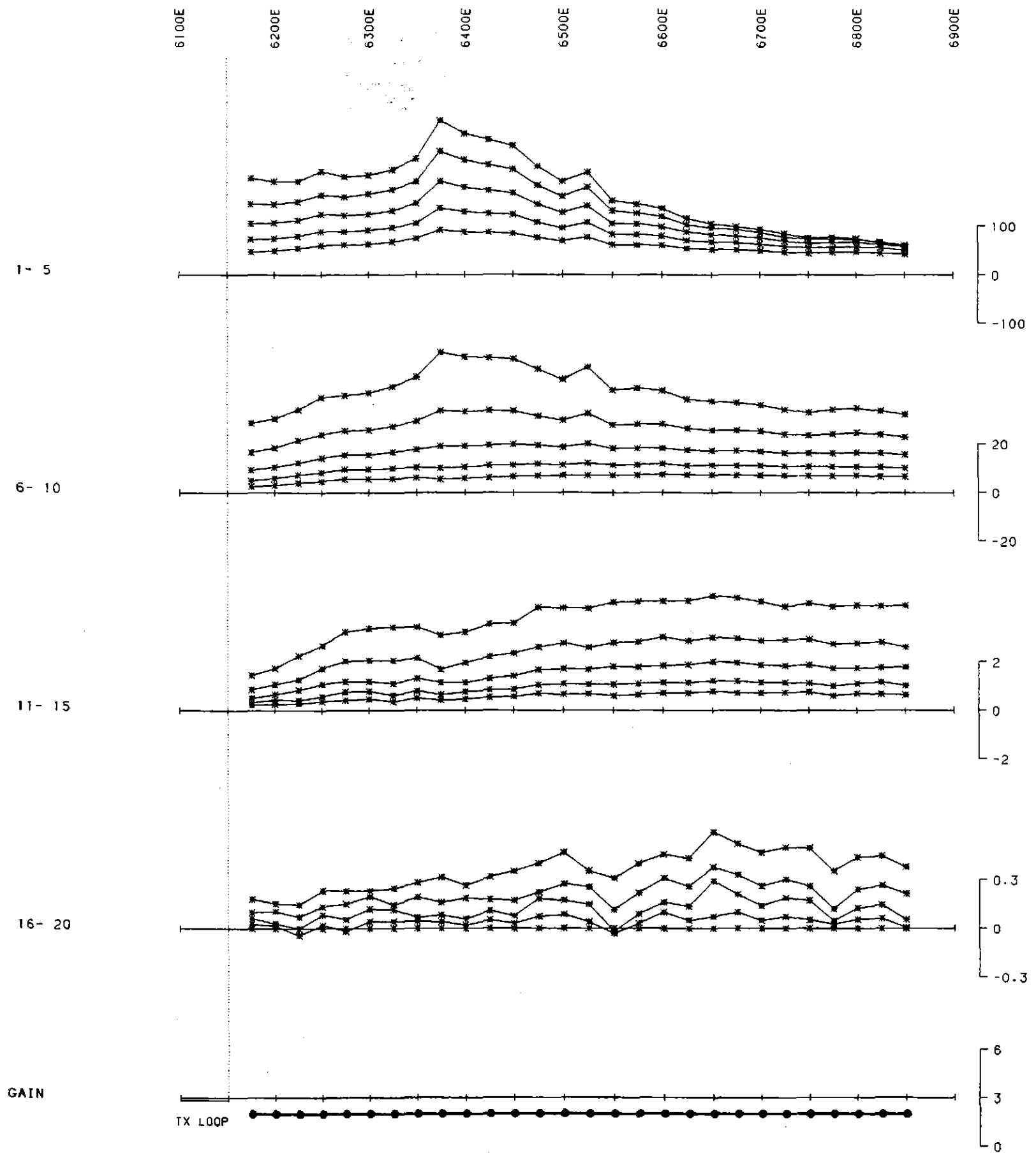
SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 7950N Z
 TX LOOP : 2

Report No.: 20795

TV 840

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
: 5368000N 361650E
TX LOOP SIZE : 700M X 500M
TX TURN OFF TIME : 285 MICROSECS.
FIRST GATE TIME : 88.
CURRENT : 14.0 AMPS
FREQUENCY : 25 HZ.
INTEGRATION TIME : 2048 CYCLES
SYNC MODE : CRYSTAL
HORIZONTAL SCALE : 1: 5000
SURVEYED BY : DMA
DATE : 20/03/1994

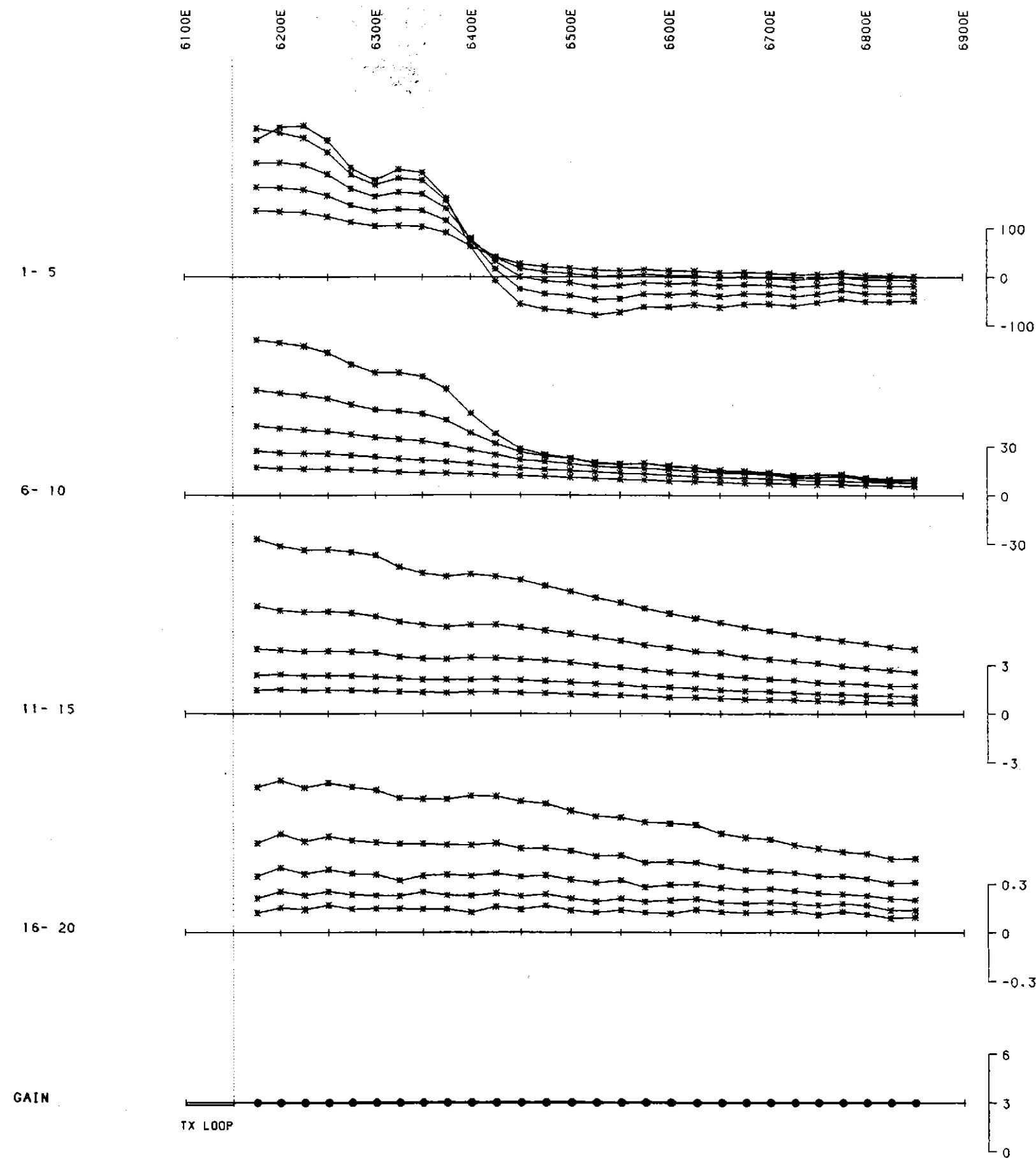
SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD. PROJECT NO.
3-817

CLIENT : CRA Exploration
PROJECT : MELBA FLATS EL43/92
AREA : NORTH CUNI
LINE : 7950N X
TX LOOP : 2

Report No.: 20795

TV 841

VERTICAL COMPONENT B (Z)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E
 TX LOOP SIZE : 700M X 500M
 TX TURN OFF TIME : 285 MICROSECS.
 FIRST GATE TIME : 88.
 CURRENT : 14.0 AMPS
 FREQUENCY : 25 HZ.
 INTEGRATION TIME : 2048 CYCLES
 SYNC MODE : CRYSTAL
 HORIZONTAL SCALE : 1: 5000
 SURVEYED BY : DMA
 DATE : 20/03/1994

SURVEYED AND COMPILED BY
GEOTERREX PTY. LTD.PROJECT NO.
3-817

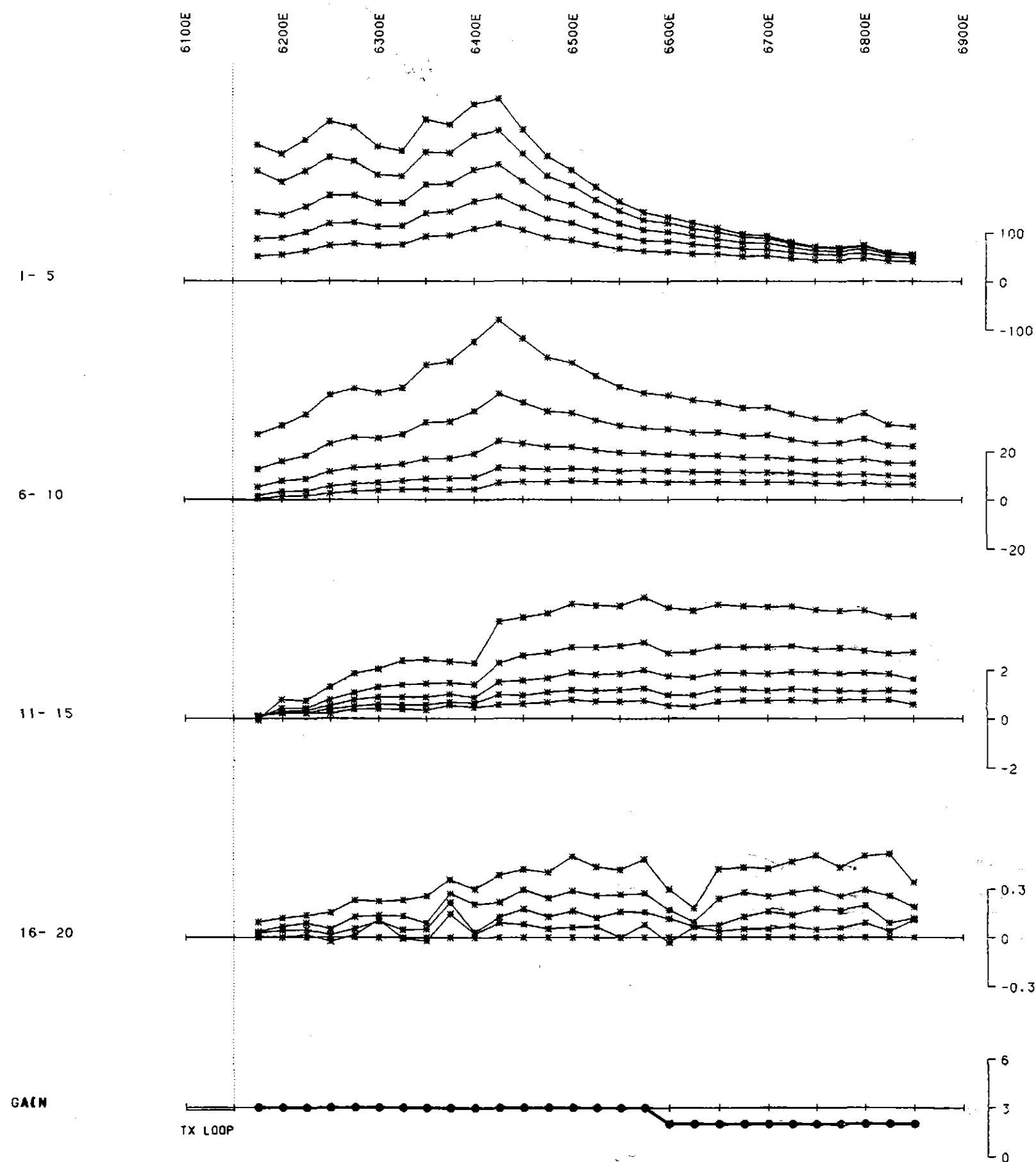
CLIENT : CRA Exploration
 PROJECT : MELBA FLATS EL43/92
 AREA : NORTH CUNI
 LINE : 8000N 2
 TX LOOP : 2

Report No.: 20795

TV 842

305095

HORIZONTAL COMPONENT B (X)



PROTEM

FIXED
TRANSMITTER
SURVEYELECTROMOTIVE FORCE INDUCED BY
SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

5 cm

nanovolts per amp metre squared

TX LOOP SIDES : 5367300N 365650E
 : 5368000N 361650E

TX LOOP SIZE : 700M X 500M

TX TURN OFF TIME : 285 MICROSECS.

FIRST GATE TIME : 88.

CURRENT : 14.0 AMPS

FREQUENCY : 25 HZ.

INTEGRATION TIME : 2048 CYCLES

SYNC MODE : CRYSTAL

HORIZONTAL SCALE : 1: 5000

SURVEYED BY : DMA

DATE : 20/03/1994

SURVEYED AND COMPILED BY
GEOTREX PTY. LTD.PROJECT NO.
3-817

CLIENT : CRA Exploration

PROJECT : MELBA FLATS EL43/92

AREA : NORTH CUMI

LINE : 8000N X

TX LOOP : 2

Report No.: 20795

TV 843

95-3729

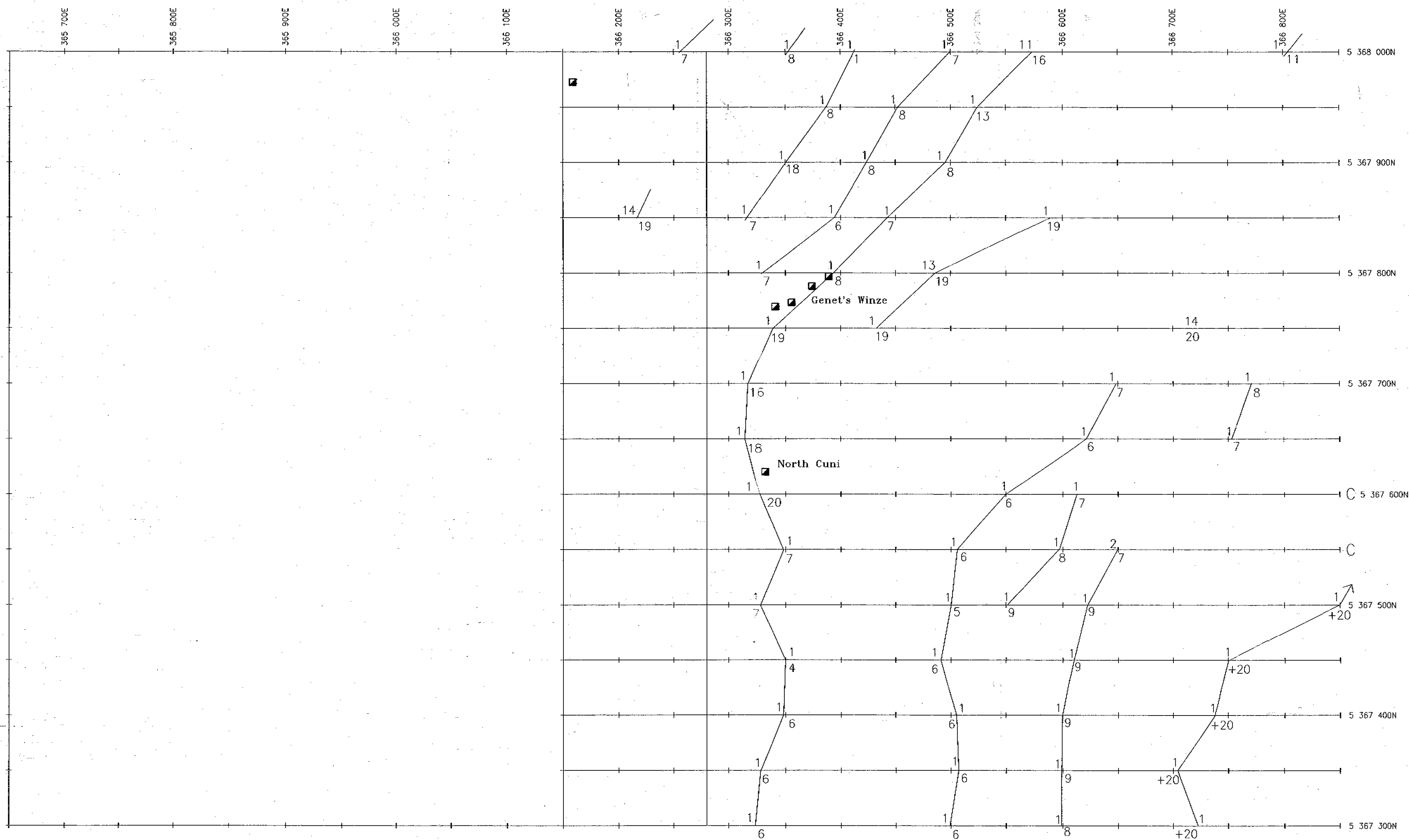
EL 43/92 Melba Flats Tas Report on exploration
year 2 1994.5 - CRA - 2 volumes - Maher, S.

CRA EXPLORATION PT

MELBA FLATS EI
North Cuni - Genet's
PROTEM interpreta

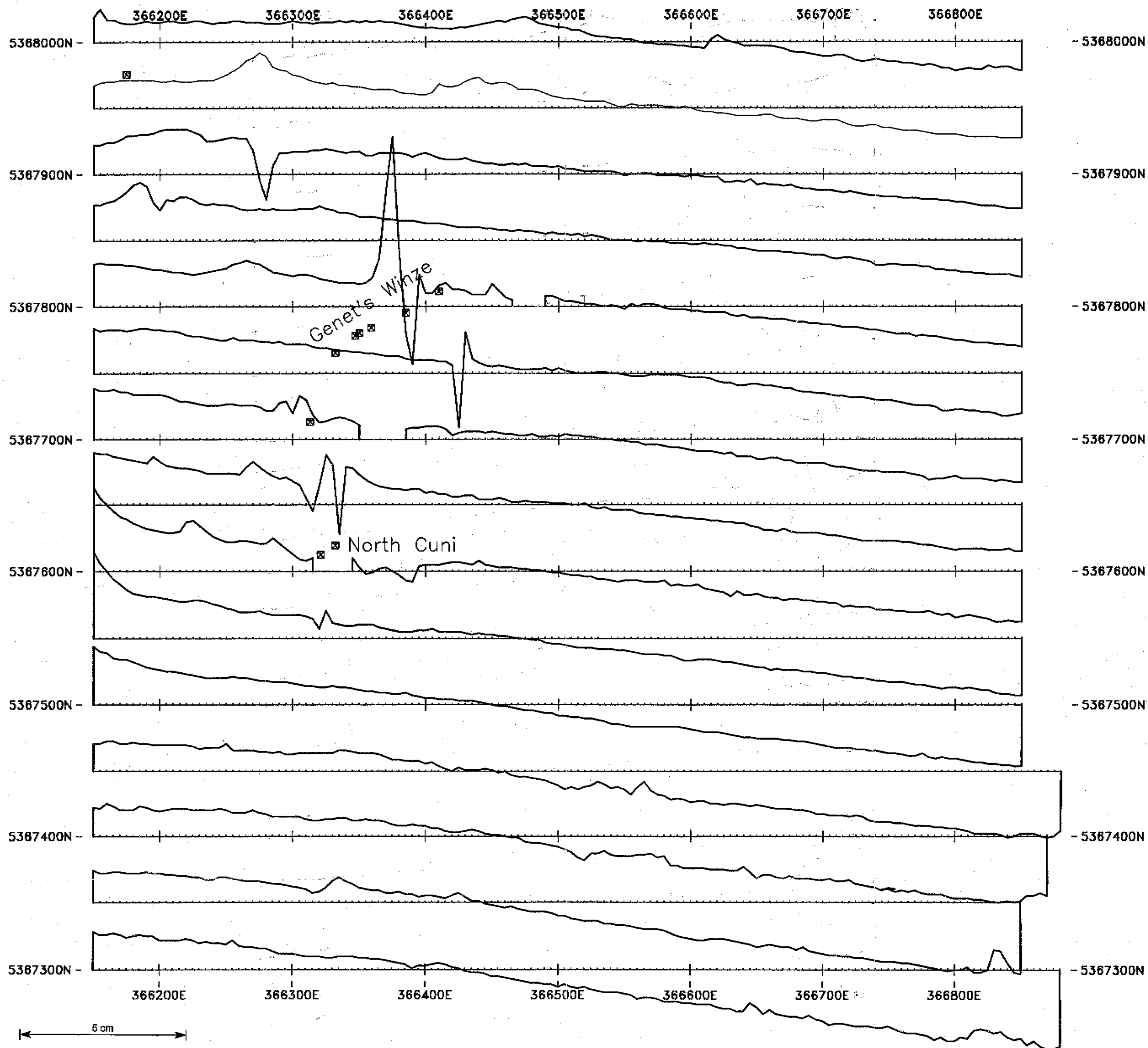
Ref.: SK 55-5	File: Tv952
Scale: 1 : 2500	Date: May 1995
Author: S. Maher	Report No.: 20795
Drawn: T. Sargeant	Plan No.: Tv952

305033



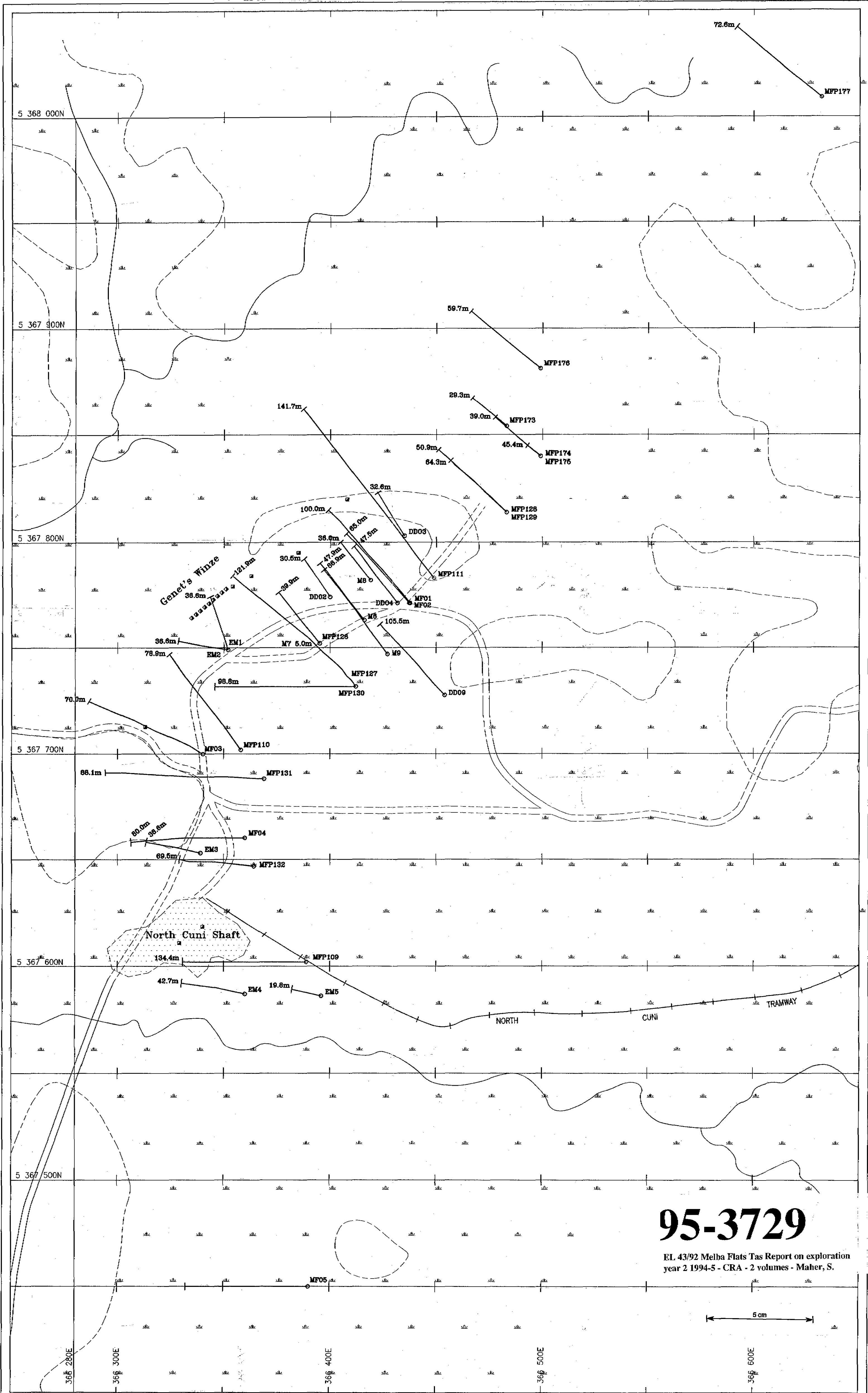
LEGEND

- 1 - First channel anomaly detected
- 6 - Last channel anomaly detected
- North Cuni
- Shafts
- Gridline
- Off line conductor



305035

CRA EXPLORATION PTY. LIMITED		
MELBA FLATS EL 43/92		
NORTH CUNI - GENET'S WINZE		
GROUND MAGNETIC STACKED PROFILES		
QUEENSTOWN 5K55-05		
GEO: S.Maher	SCALE: 1:2500	REPORT: 20795
DRAWN: T.S.	DATE: May '95	PLAN: Tv 579

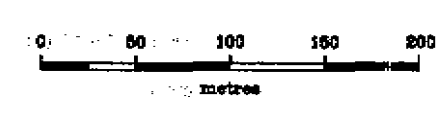


95-3729

EL 43/92 Melba Flats Tas Report on exploration
year 2 1994-5 - CRA - 2 volumes - Maher, S.

LEGEND

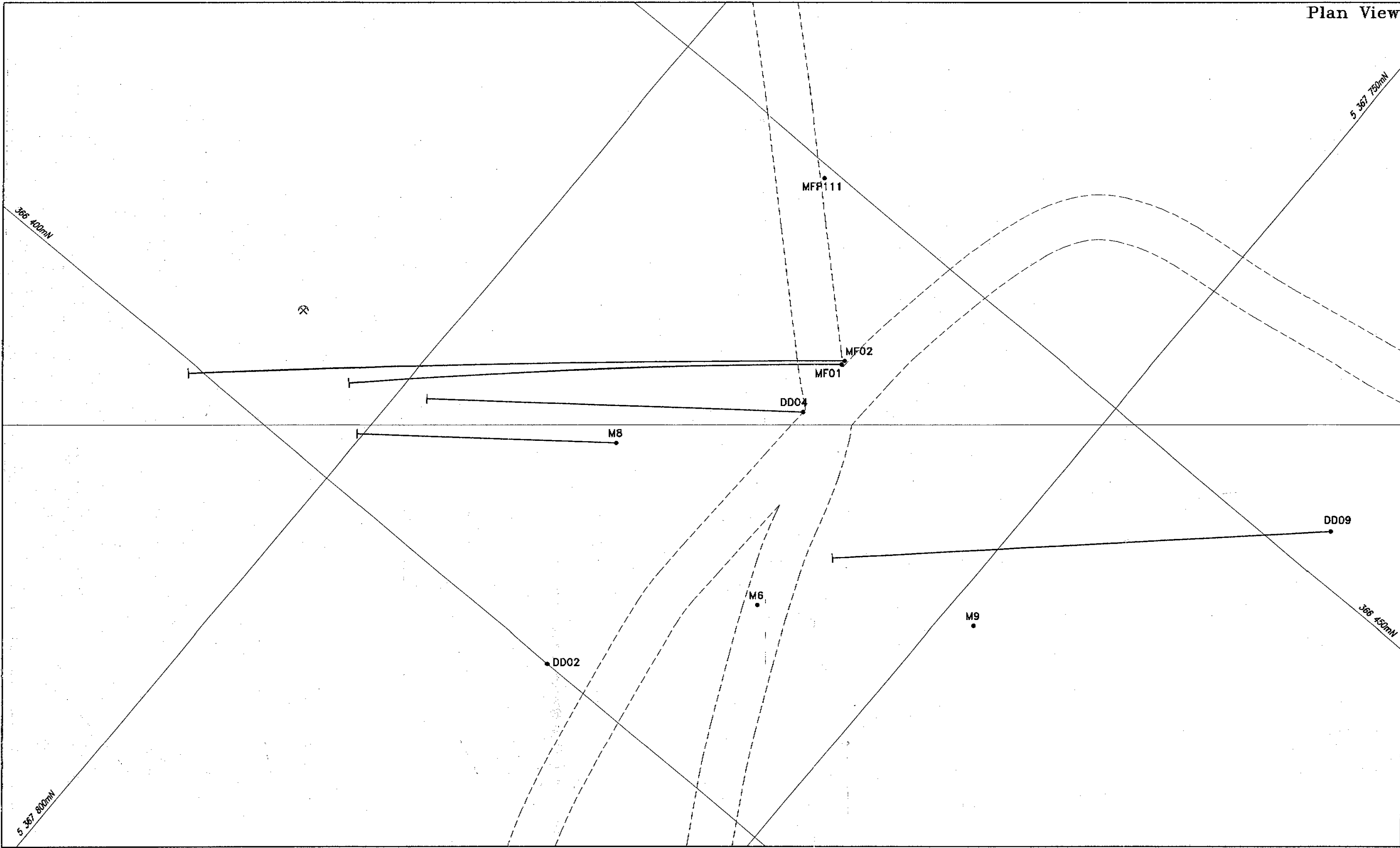
	Creeks		Cleared Area		North Cuni Shaft
	Tracks		Soil Developed Over Bedrock		CRAE Ordinance
	Disused Tracks		Alluvium Overlying Bedrock		Drill Hole
	Disused Tramway		Old Workings		



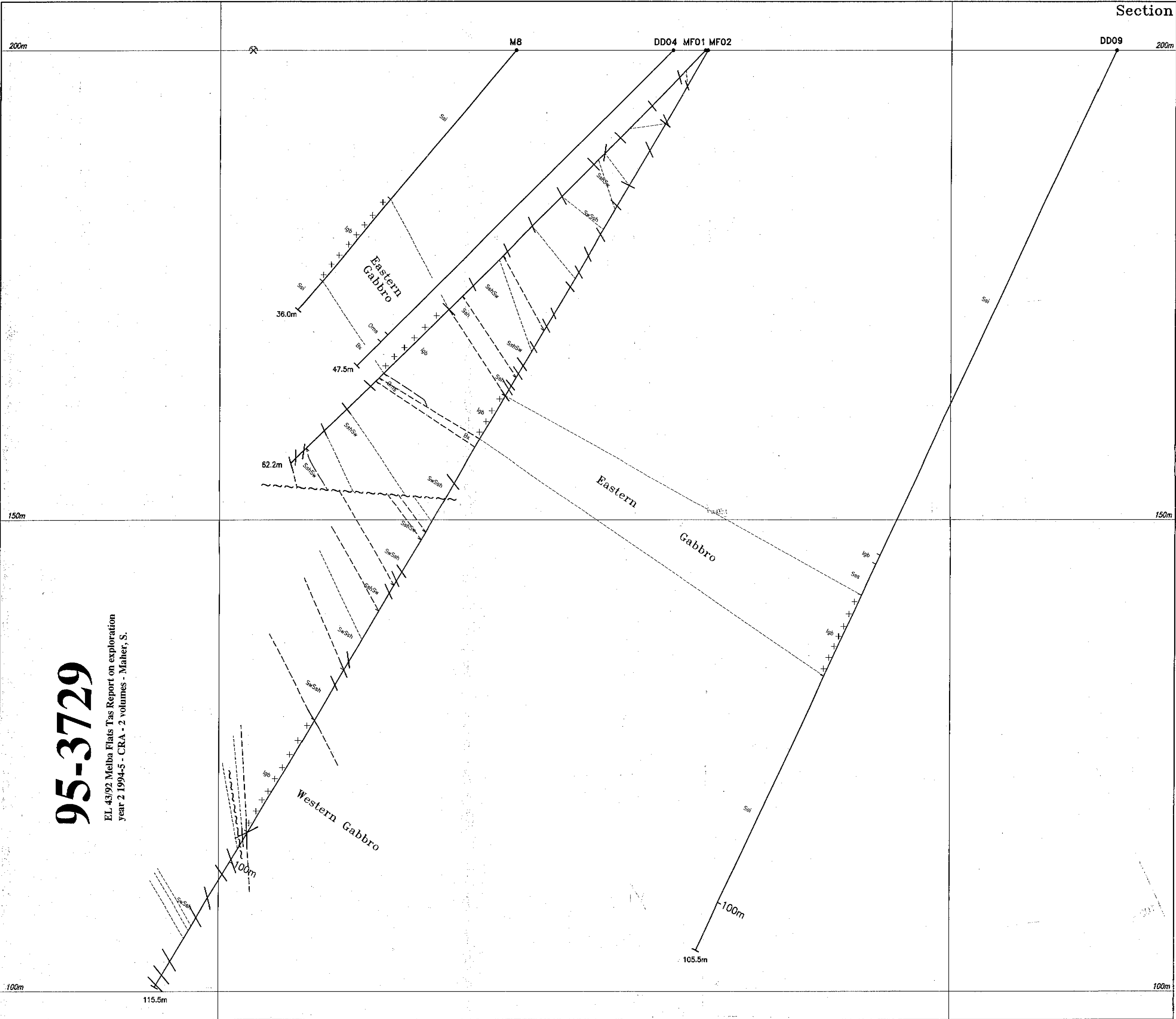
305034

CRA EXPLORATION PTY. LIMITED	
MELBA FLATS EL 43/92	
North Cuni - Genets Winse Prospect	
Drill Hole Location Plan	
Ref: SK 55-5	File: Tv953
Scale: 1 : 1000	Date: May 1995
Author: S. Maher	Report No.: 20795
Drawn: T. Sargeant	Plan No.: Tv 953

Plan View



Section



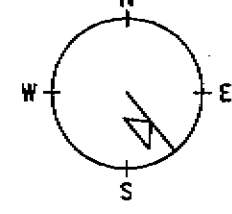
95-3729

EL 43/92 Melba Flats Tas Report on exploration
year 2 1994-5 - CRA - 2 volumes - Maher, S.

- Lithological Boundary
- Core to axis angle
- Inferred bedding
- ~~~~~ Shear Zone

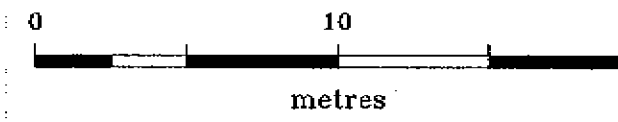
SECTION SPECS:
REF. PT. E, N 366385 5367825
EXTENTS 125 105
SECTION TOP, BOT 205 100
TOLERANCE +/- 15 M

AZIMUTH (DEG) = 140



305030

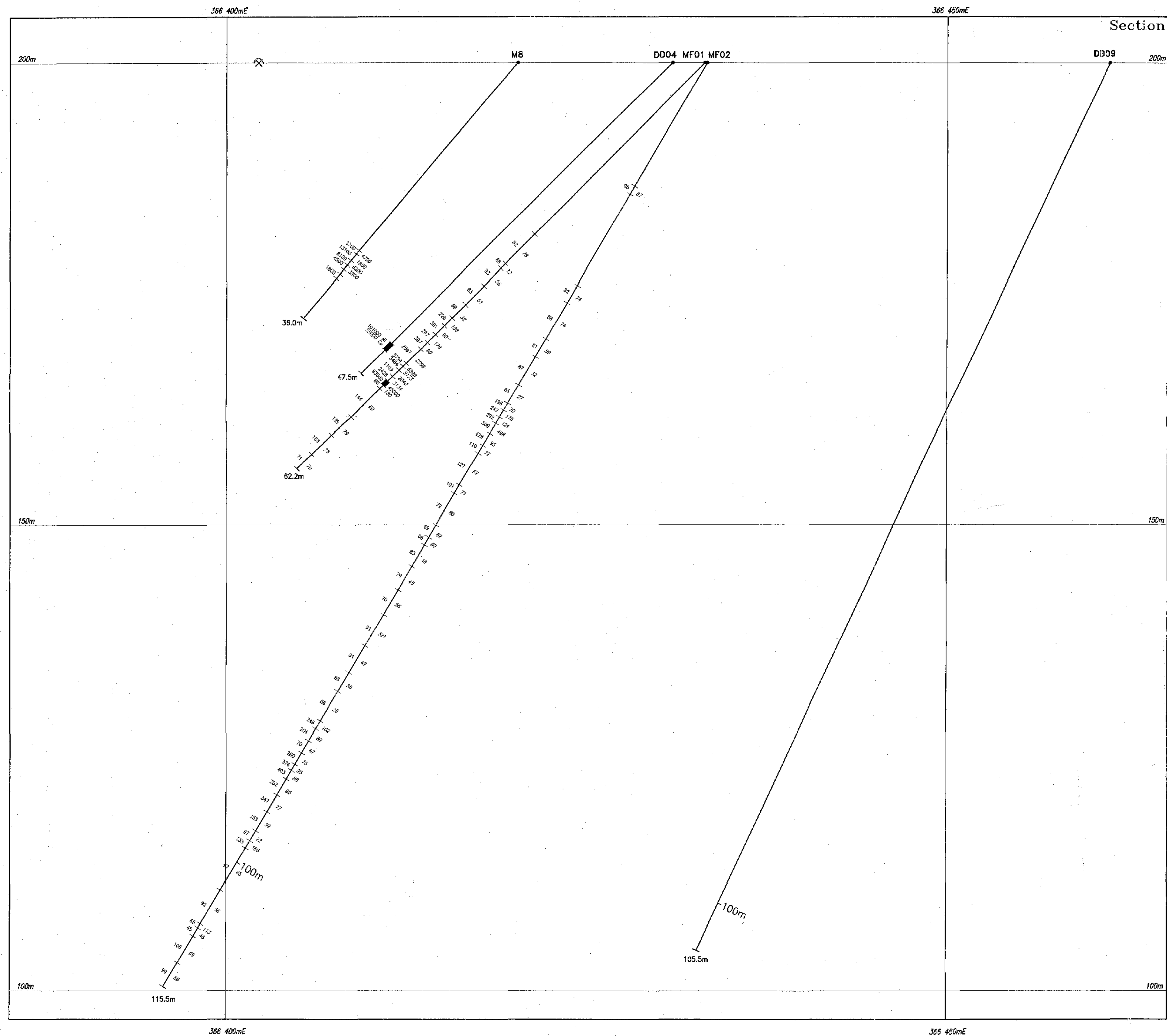
5 cm



CRA EXPLORATION PTY. LIMITED

MELBA FLATS EL 43/92
North Cuni - Genet's Winze
DD94 MF01 & MF02
Geology

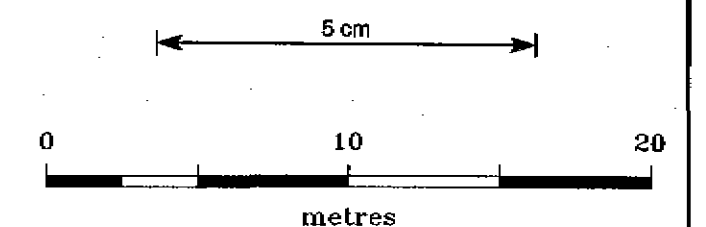
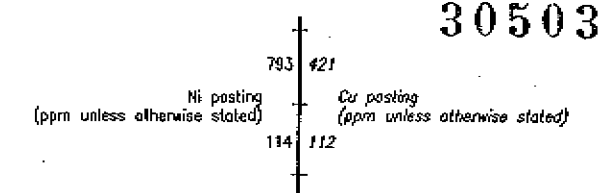
Ref.: Sk 55 - 05	File: Tv883R
Scale: 1 : 250	Date: November 1994
Author: T. Arovanis	Report No: 20795
Drawn: R. Traverso	Plan No: Tv 883



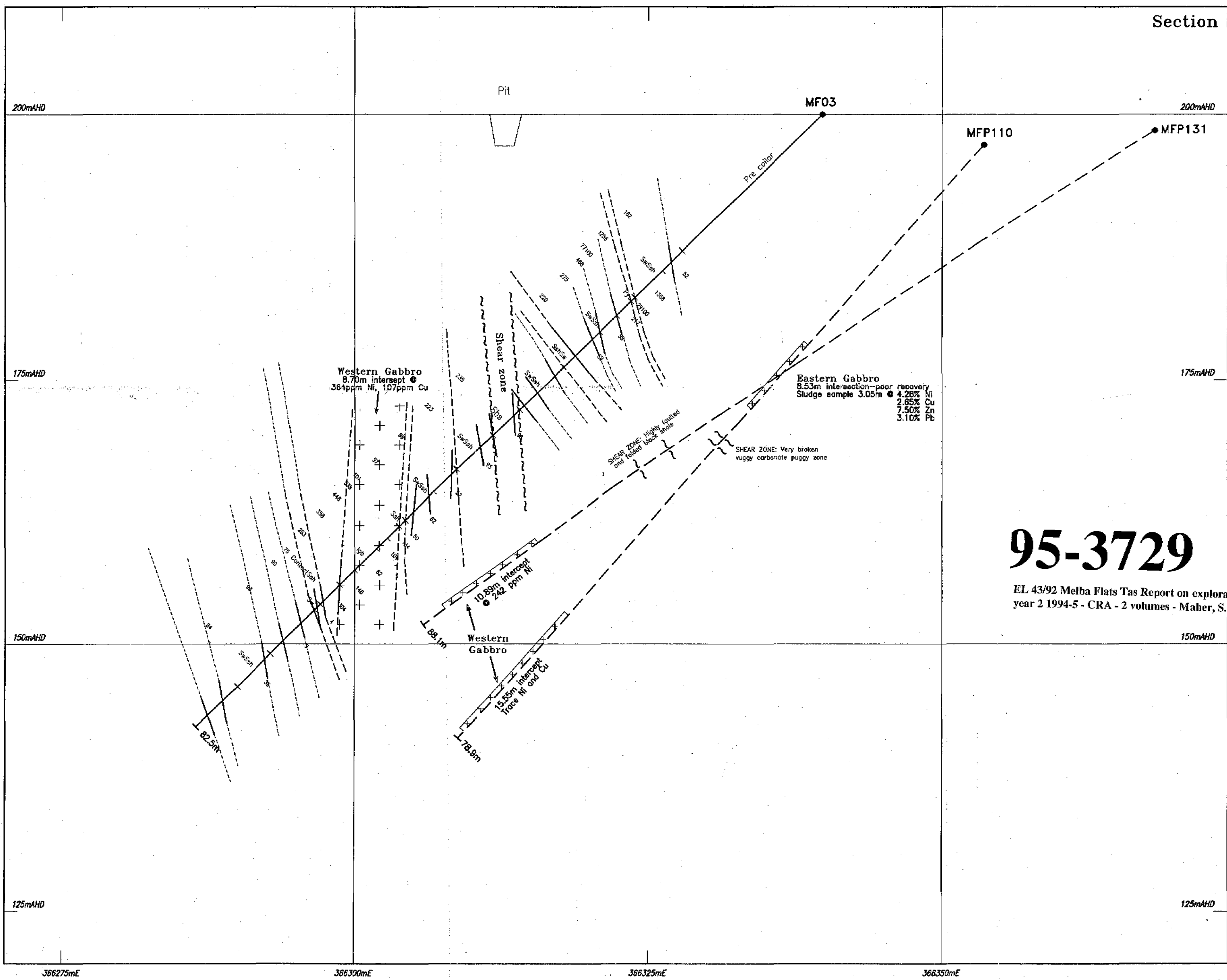
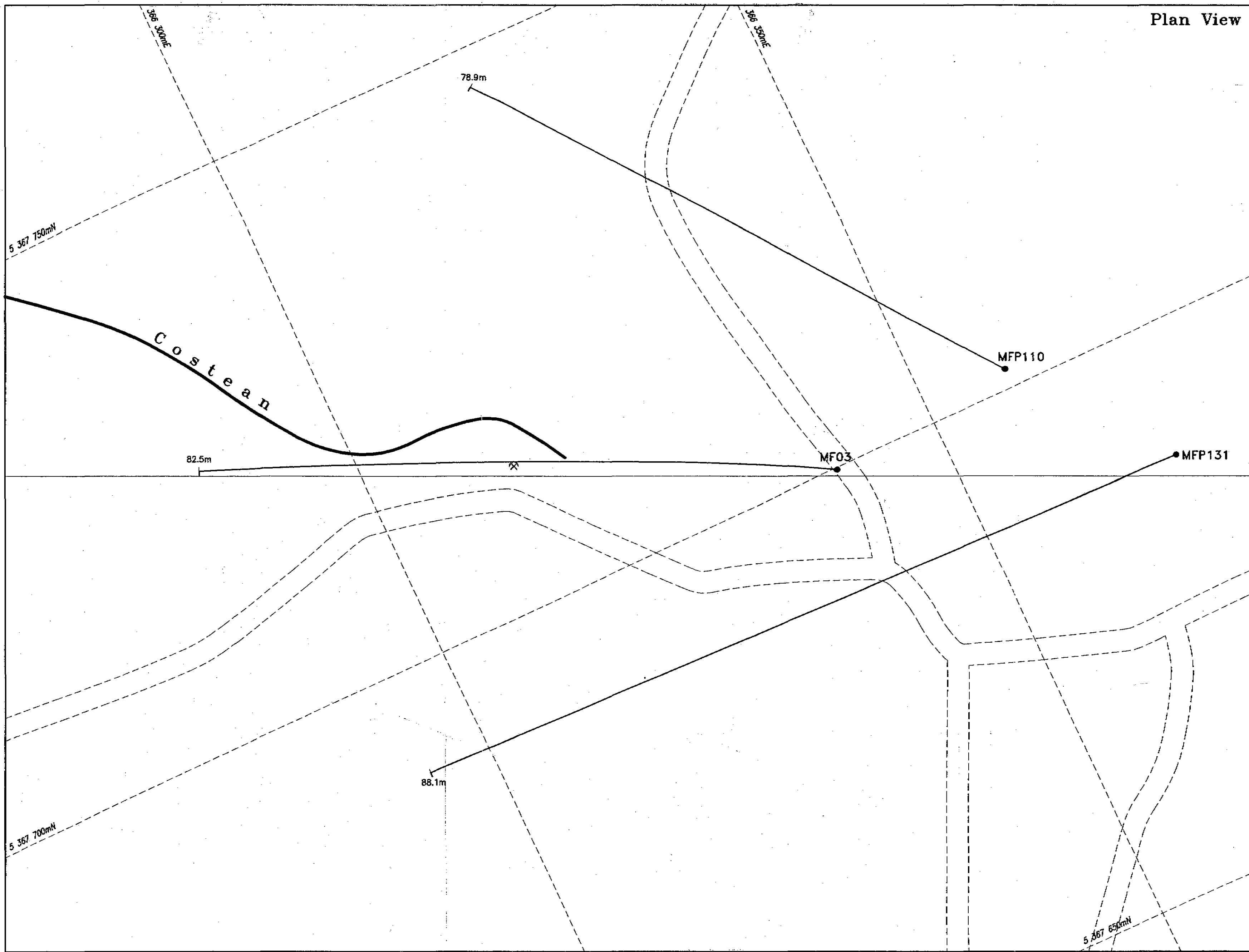
95-3729

EL 43/92 Melba Flats Tas Report on exploration
year 2 1994-5 - CRA - 2 volumes - Maher, S.

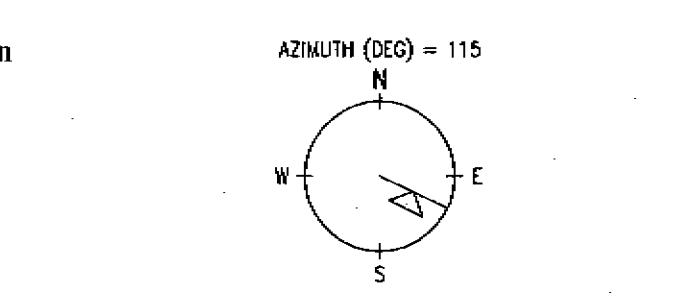
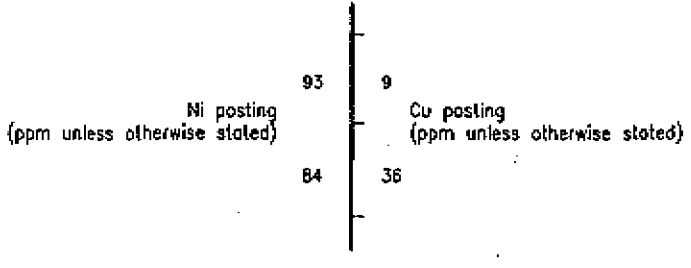
305032



CRA EXPLORATION PTY. LIMITED	
MELBA FLATS EL 43/92 North Cuni - Genet's Winze DD94 MF01 & MF02 Ni and Cu assays	
Ref.: Sk 55 - 05	File: Tv884R
Scale: 1 : 250	Date: November 1994
Author: T. Aravanis	Report No.: 20795
Drawn: R. Traverso	Plan No.: Tv 884

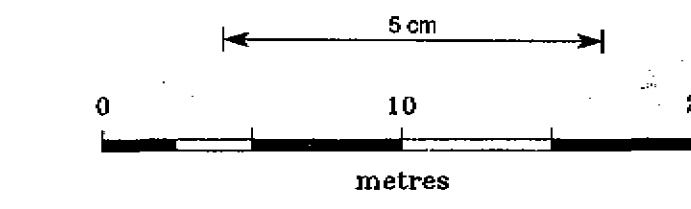


- Lithological Boundary
- Core to axis angle
- Inferred bedding
- ~~~~~ Shear Zone

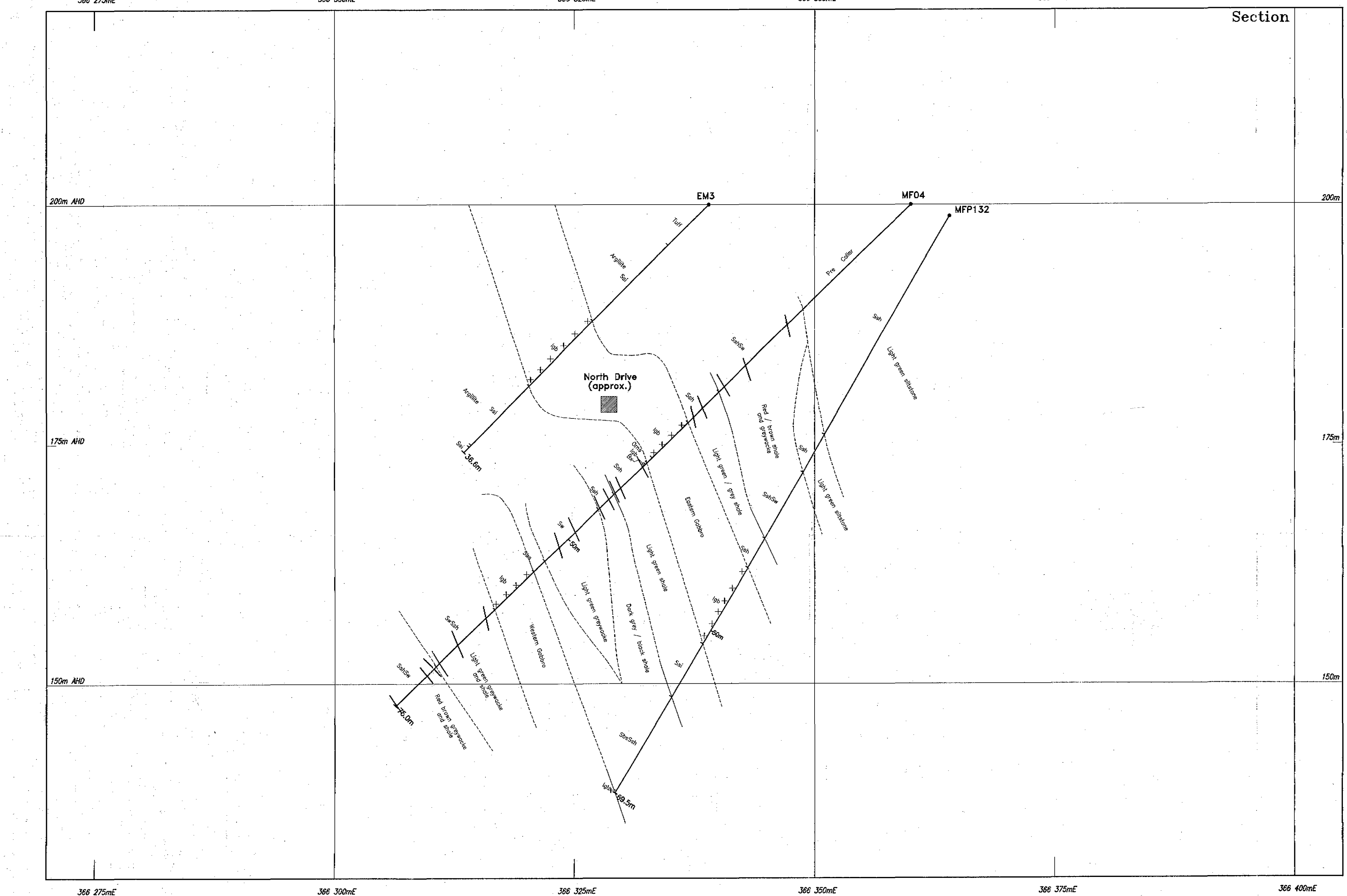
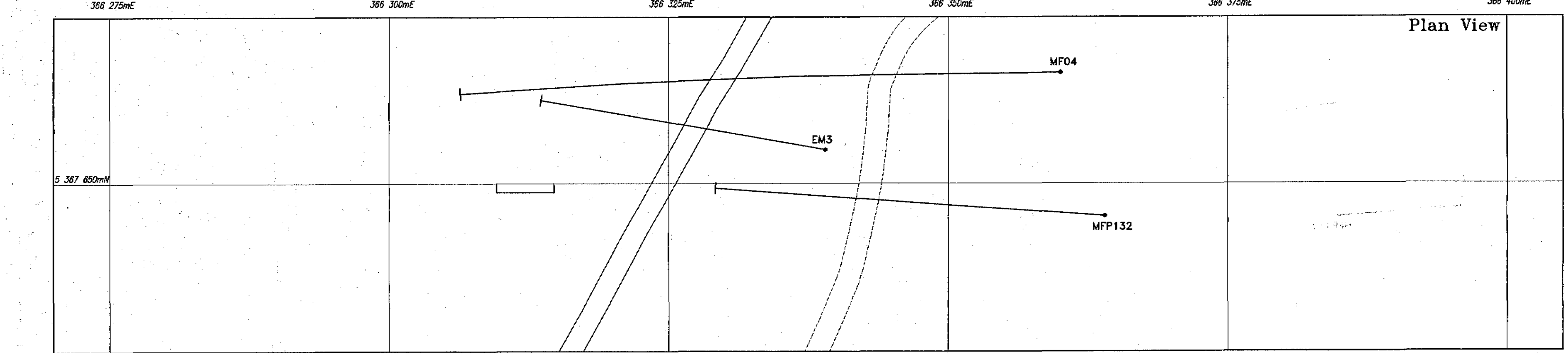
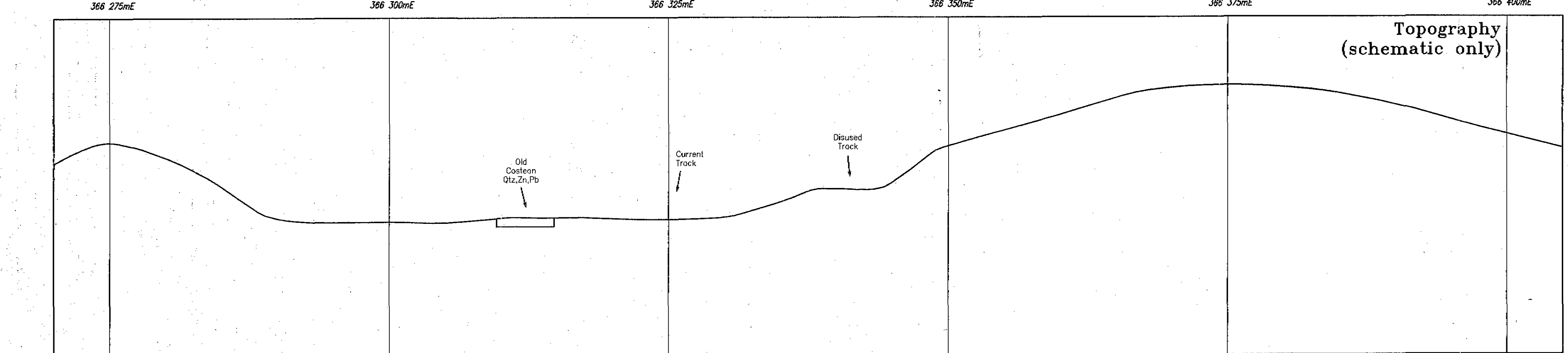
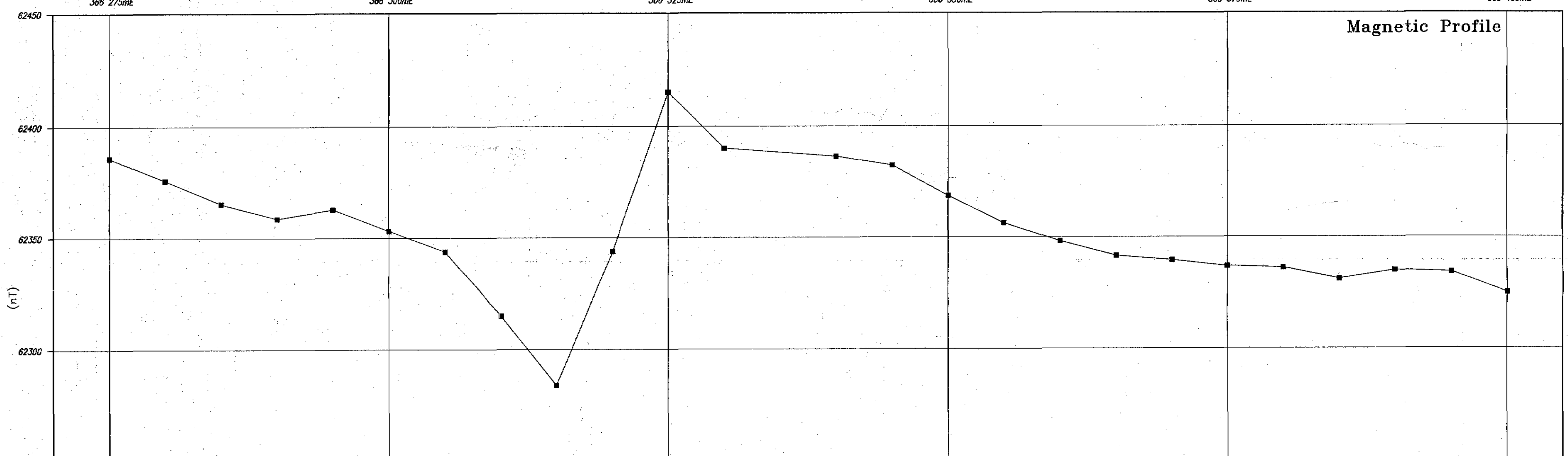
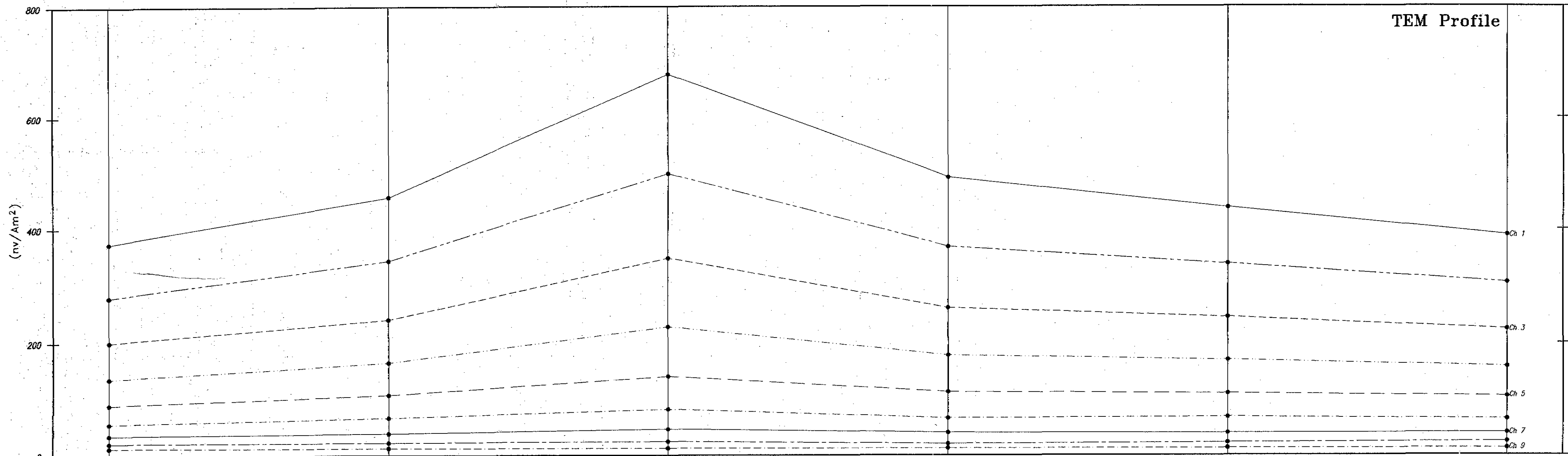


SECTION SPECS:

REF. PT. E, N	366270	5367732
EXTENTS	115	90
SECTION TOP, BOT	210	120
TOLERANCE +/-	2 M	



CRA EXPLORATION PTY. LIMITED			
MELBA FLATS EL 43/92			
North Cuni - Genet's Winze			
DD94-MF03 DRILL SECTION			
Composite Plan			
Ref:	Sk 55 - 05	File:	Tv863R
Scale:	1 : 250	Date:	November 1994
Author:	T. Aravenis	Report No.:	20795
Drawn:	R. Travieso	Plan No.:	Tv 863



95-3729

EL 43/92 Melba Flats Tas Report on exploration year 2 1994-5 - CRA - 2 volumes - Maher, S.

Core to axis angle
Inferred bedding

305028

SECTION SPECS:
REF. PT.: E, N 366280 5367650
EXTENTS 125 92.5
SECTION TOP, BOT 220 127.5
TOLERANCE +/-

0 10 20 metres

CRA EXPLORATION PTY. LIMITED

MELBA FLATS EL 43/92
North Cuni - Genet's Winze
Section 5 367 650N
Composite Plan

Ref.: Sk 55 - C5 File: Tv860r
Scale: 1 : 250 Date: November 1994
Author: T. Arevan's Report No.: 20795
Drawn: R. Traverso Plan No.: Tv 860

366 275mE

366 300mE

366 325mE

366 350mE

366 375mE

366 400mE

305027

Section

95-3729

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200m AHD

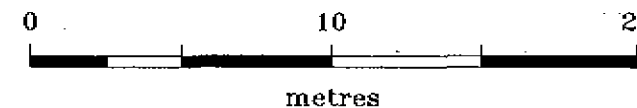
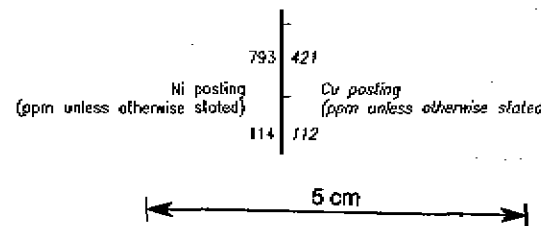
200m

175m AHD

175m

150m AHD

150m

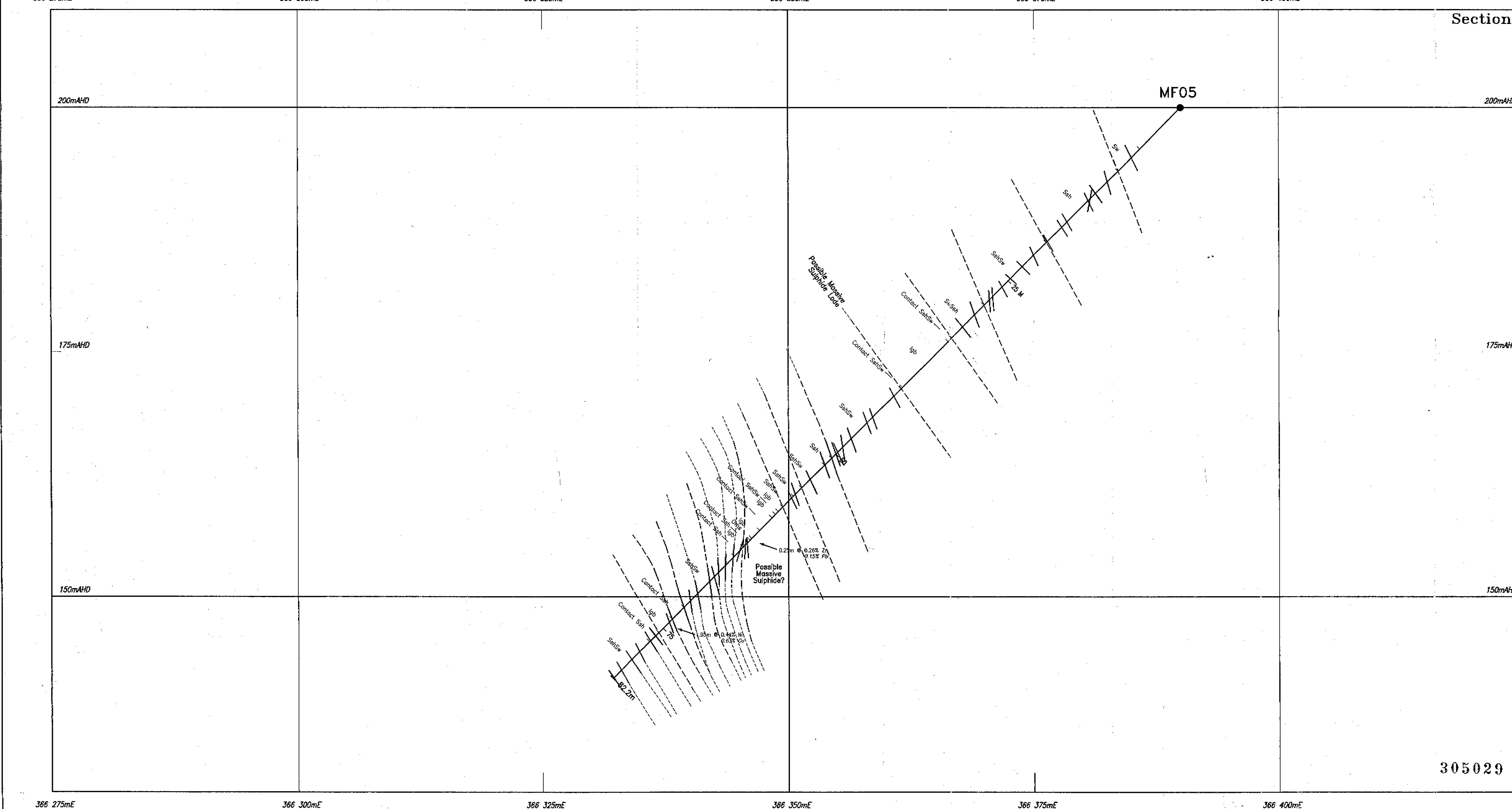
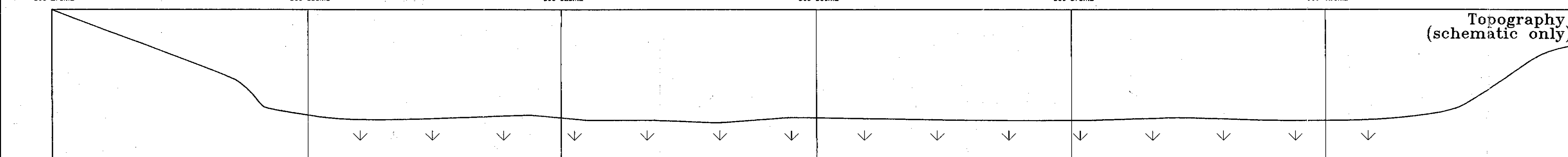
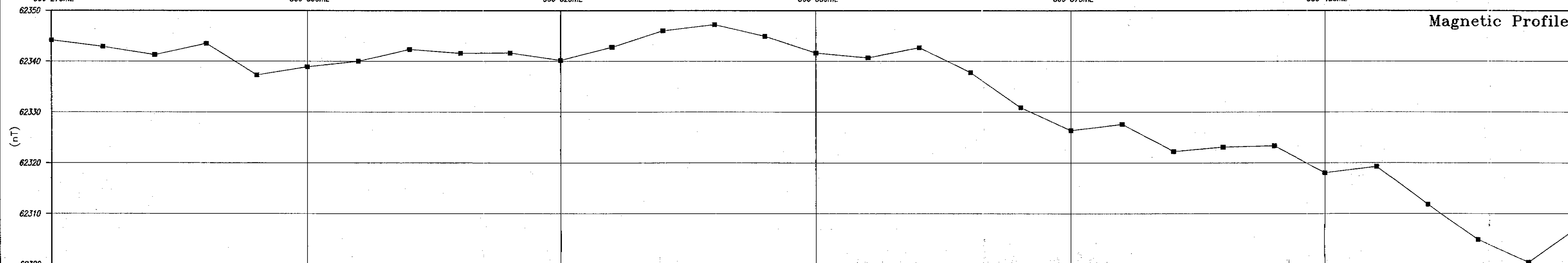
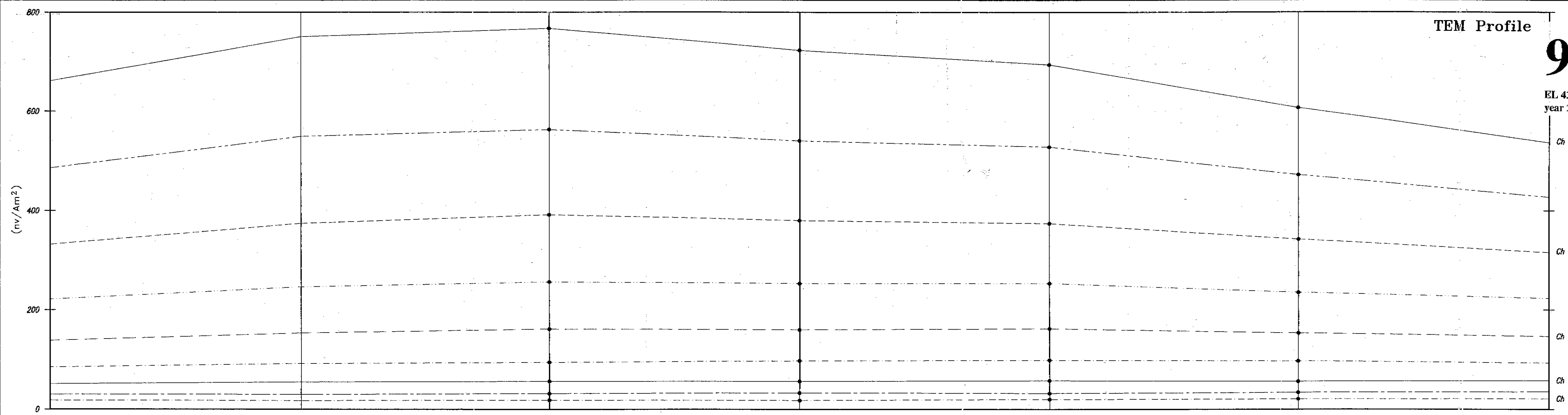


CRA EXPLORATION PTY. LIMITED	
MELBA FLATS EL 43/92	
North Cuni - Genet's Winze	
Section 5 367 650N	
Ni and Cu assays	
Ref.: Sk 55 - 05	File: Tv861R
Scale: 1 : 250	Date: November 1994
Author: T. Aravanis	Report No.: 20195
Drawn: R. Travieso	Plan No.: Tv 851

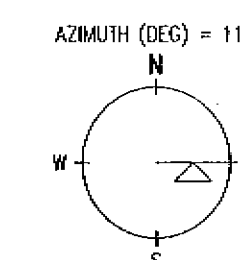
TEM Profile

95-3729

EL 43/92 Melba Flats Tas Report on exploration
year 2 1994-5 - CRA - 2 volumes - Maher, S.



----- Lithological Boundary
 ----- Core to axis angle
 ----- Inferred bedding



SECTION SPECS:
 REF. PT. E. N. 366290 5367450
 EXTENTS 125 82.5
 SECTION TOP BOT 220 137.5
 TOLERANCE +/- 10 M

5 cm

0 10 20
metres

CRA EXPLORATION PTY. LIMITED
 MELBA FLATS EL 43/92
 North Cuni - Genet's Winze
 Section 5 367 450N
 Composite Plan

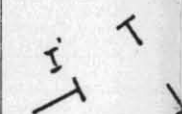
305029

Ref.: Sk 55 - 05	File: Tv862R
Scale: 1 : 250	Date: November 1994
Author: T. Aravanis	Report No.: 20796
Drawn: R. Travieso	Plan No.: Tv 862

[illegible]

95-3729

Cross Section

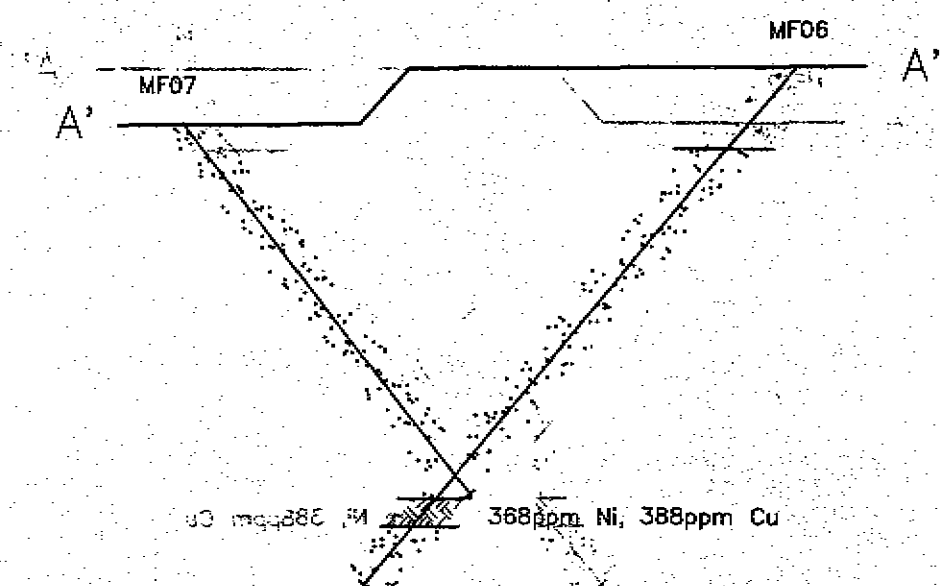


0 10 m

Plan Tv 945

SW

NE
WE



95-3729

EL 43/92 Melba Flats Tas Report on exploration
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305104

-  Interbedded volcanoclastic wacke and shale
-  Alluvial gravel
-  Diorite

Location of section A'— A'' shown on plan IV945.

0 10m

Scale 1:250

V/H = 1 horizontal

CRA EXPLORATION PTY. LIMITED

**Melba Flats EL 43/92
Nickel Reward
MF06 and MF07 Drill Section
Compilation Plan**

Ref.: SK 55-5	File: Tv955
Scale: 1:250	Date: May 1995
Author: S. Maher	Report No.: 20795
Drawn: T. Sargeant	Plan No.: Tv955

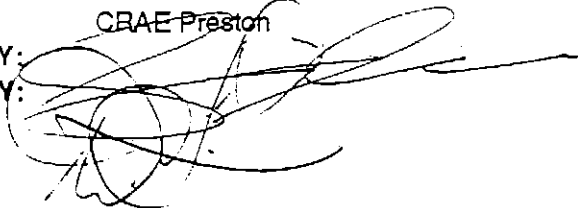
EL 43/92 MELBA FLATS, TASMANIA
REPORT ON EXPLORATION FOR THE SECOND YEAR OF TENURE,
17/4/94 TO 16/3/95.

MICROFILMED
FICHE No.013620-29

95-3729

AUTHOR: S. Maher
DATE: May, 1995
LICENCE HOLDER: CRA EXPLORATION PTY. LIMITED
SUBMITTED TO: Chief Geologist
COPIES TO: Tas-Industry Safety & Mines Division
CRAE ETIG Box Hill
CRAE Zeehan
CRAE Preston

SUBMITTED BY:
ACCEPTED BY:



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EL 43/92 Melba Flats Tas Report on exploration
year 2 1994-5 - CRA - 2 volumes - Maher, S.

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CRAE Report No. 20795

APPENDIX IROCK CHIP GEOCHEMISTRY SAMPLE LEDGER AND LABORATORY REPORTS

MELBA FLATS EL43/92 ROCK CHIP DATABASE

SAMPLE NUMBER	DPO	EAST	NORTH	EL	PROSPECT	BIRLITH	FIELD ID	TEXTURE	ALT/MIN	COLOUR	COMMENTS	PET	SUSC.
												DPO	x10-5 SI
3308019	71516	366450	5366150	43/92	VAUDEAU	Es	Elb?	Ds	Py	DV	Py 2-5%. Massive basalt?		
3308020	71516	366450	5366150	43/92	VAUDEAU	Es	lgb	Ds	Py	DV	Py 2-5%. Massive basalt?		
3308021	71516	366450	5366150	43/92	VAUDEAU		Oms	MSBs	PyCpPoNi	Y	Massive sulphide.		
3313768	71540	368250	5367900		SERPENTINE HILL	Esu	lus	Sh		V			
3313769	71540	368200	5367600	43/92	SERPENTINE HILL	Esu	lus	Sh		V			
3528456	71540	366300	5365820	43/92	NICKEL REWARD	Egm	Oms		Py	DVE	Pyroxenite?		
3528457	71540	366300	5365820	43/92	NICKEL REWARD	Egm	lu	BxSh	Py		Mullock heap		
3528458	71540	366300	5365820	43/92	NICKEL REWARD	Egm	lulgb			VG	Pyroxenite		
3528459	71540	366440	5366150	43/92	VAUDEAU	Egm	lulgb			GV	Mullock heap		
3528460	71540	366440	5366150	43/92	VAUDEAU	Egm	lgb		Py		Mullock heap 5-10% Py		
3528461	71540	366440	5366150	43/92	VAUDEAU	Egm		Ma	PyCpGa		Mullock heap		
3528462	71540	366320	5367620	43/92	NORTH CUNI	Egm	lu?Ssh?	DiVn	Py		Mullock heap		
3528463	71540	366320	5367620	43/92	NORTH CUNI	Egm	OmsOvq	Bx	PyGaCp		Mullock heap		
3528464	71540	367080	5367850	43/92	LEAD BLOCKS	El	SbxSsi?	MaSi	Ga		Mullock heap		
3528465	71540	367080	5367850	43/92	LEAD BLOCKS	El		MaWe	Ga		Mullock heap		
3528466	71540	367080	5367850	43/92	LEAD BLOCKS	El	Ssi	SiWe	Su		Mullock heap		
3528470	71540	367900	5367010	43/92	SERPENTINE HILL	Eba	Silfu?	WeFe					
3528471	71540	367920	5367060	43/92	SERPENTINE HILL	Eba	lm		Py				
3528472	71540	367960	5367120	43/92	SERPENTINE HILL	Eba	Elb						
3528473	71540	368020	5367220	43/92	SERPENTINE HILL	Eba	lm	Vn					
3528474	71540	368080	5367320	43/92	SERPENTINE HILL	Eba	Ma						
3528475	71540	368240	5367380	43/92	SERPENTINE HILL	Eba	lmMa	lm			85x085		
3528476	71540	368340	5367580	43/92	SERPENTINE HILL	Eba	lmus						
3528477	71540	368400	5367640	43/92	SERPENTINE HILL	Eba	lgbhm	Al					
3528478	71540	368540	5367880		SERPENTINE HILL	Eba	lus			V			
3184279	77352	366320	5366090	43/92	VAUDEAU	Evs	Sw	Bx?		G		77351	40
3184280	77352	366390	5366130	43/92	VAUDEAU	Egm	lgb	Fe	PyCp	MG	Mullock heap		60
3184281	77352	366390	5366130	43/92	VAUDEAU	Egm	lgb	VnFeDs	PyCp	G	Yfg sulph. <<1%		50
3184282	77352	366390	5366130	43/92	VAUDEAU	El	Ssi	FiFr	Py?	G	Mine slate		40
3184283	77352	366390	5366130	43/92	VAUDEAU	Egm	lgb	AlDs	PySu	MGV	Mullock heap		30
3184284	77352	366390	5366130	43/92	VAUDEAU	Egm	lgb	WeDs	PySu	DV	Mullock heap	77351	70
3184285	77352	366390	5366130	43/92	VAUDEAU	El	Ssi	Vs	SdSp?Ga	N	Mullock heap		40
3184286	77352	366350	5367770	43/92	GENET'S WINZE	Egm		We	Cs	OLV	Mullock heap		30
3184287	77352	366350	5367770	43/92	GENET'S WINZE	Egm		We	Cs	MOV	Mullock heap		20
3184288	77352	366350	5367770	43/92	GENET'S WINZE	El	Ssi	VnBd	PyPo?Cp?	DG	Mullock heap		50
3184289	77352	366350	5367770	43/92	GENET'S WINZE	Egm	lm	We		DG	Stickenside. Soft		90
3184290	77352	366350	5367770	43/92	GENET'S WINZE	Egm	lm	DsVs	Su		F grained Stickensides	77351	60
3184291	77352	366350	5367770	43/92	GENET'S WINZE	El?			CpNiCs	MVN	Hard bk groundmass	77351	20
3184292	77352	366150	5365920	43/92	WEST VAUDEAU	El	Sw	We		V	Volc. derived.		30
3184293	77352	366155	5365920	43/92	WEST VAUDEAU	El	Ssi	Bd		LKO			10
3184294	77352	366170	5365910	43/92	WEST VAUDEAU	El	Sw	We		V	Volc. derived.		40
3184295	77352	366320	5367610	43/92	NORTH CUNI	Egm	Oms	VsBx	GaSpSdQtz		Mullock heap		10
3184296	77352	366320	5367610	43/92	NORTH CUNI	Egm	Omslgb?	VsBx	GaSpPyQtz	MVG	Mullock heap		30
3184297	77352	366320	5367610	43/92	NORTH CUNI	Egm	Oms		PyNiBo		Mullock heap		50
3184298	77352	366320	5367610	43/92	NORTH CUNI	Egm	lgb	We		MVG	Mullock heap	77351	60
3184299	77352	366320	5367610	43/92	NORTH CUNI	Egm	lgb	Ds	PyNiPo?	MVG	Mullock heap	77351	80
3184300	77352	366320	5367610	43/92	NORTH CUNI	El	Ssi	Bd		LG	Fine laminations		30
3911701	77352	366320	5367610	43/92	NORTH CUNI	Egm	Oms	Vn	GaSpPy		F grained. Mullock		10

305109

MELBA FLATS EL43/92 ROCK CHIP DATABASE

SAMPLE NUMBER	DPO	Ag			Au				Co		Cr		Cu				Fe				Mn			
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	%	%	ppm	%
		ANALABS	GA104	ALS	ANALABS	GG313	GG316	PM217	ANALABS	ALS	ANALABS	ALS	ANALABS	ALS	ALS	ALS	ANALABS	ALS	ALS	ANALABS	ANALABS	ALS	ANALABS	ALS
		GA140	GA104	IC586	GG313	GG314	GG316	PM217	GA140	IC586	GA140	GA140	GA104	IC586	A101	GA140	GA140	GA104	IC586	GA140	GA140	GA104	IC586	GA140
		1	10	1	0.005	0.008	0.005	0.01	3	5	7	2	0.01	5	0.01	0.01	0.1	0.01	0.01	3	0.1	0.01		
3308019	71516			3350							325	3350				11.20								
3308020	71516			4550							265	4550				9.76								
3308021	71516			30-100							155		3.04			2.83								
3313768	71540	-1							80		587	4												
3313769	71540	-1							58		1112	6												
3528456	71540	8			0.482	0.482	0.482		680		220			1.66										
3528457	71540	1							37		95	1911												
3528458	71540	1							46		447	1264												
3528459	71540	-1							58		341	208												
3528460	71540	1							140		335	3176												
3528461	71540	9			1.270	1.270	1.270		1280		197			7.21										
3528462	71540	1							72		113	1885												
3528463	71540		221						94		119	2589												
3528464	71540	13							14		37	126												
3528465	71540	33							4		10	52												
3528466	71540	1							27		139	40												
3528470	71540	-1							27		1764	48												
3528471	71540	-1							21		305	27												
3528472	71540	-1							78		1471	12												
3528473	71540	-1							27		274	98												
3528474	71540	-1							12		84	8												
3528475	71540	-1							69		886	3												
3528476	71540	-1							87		1497	13												
3528477	71540	-1							31		943	5												
3528478	71540	-1							89		2819	-2												
3184279	77352			2						13						168						8.30		
3184280	77352			4						84						4630						9.30		
3184281	77352			2						19						94						8.15		
3184282	77352			2						29						189						7.30		
3184283	77352			2						60						1240						7.69		
3184284	77352			5				0.280		206					1.12							13.87		
3184285	77352			48						11					1320							12.49		
3184286	77352			59						459					27.80							18.43		
3184287	77352			59				2.150		712					26.50							18.99		
3184288	77352			2						37					4240							12.92		
3184289	77352			1						20					427							17.54		
3184290	77352			2						31					3640							15.18		
3184291	77352			5				1.300		1360					23.00							20.08		
3184292	77352			1						51					521							11.17		
3184293	77352			1						26					216							11.29		
3184294	77352			1						37					176							10.78		
3184295	77352			780						41					3290							1.87		
3184296	77352			790				0.220		408					2.51							4.86		
3184297	77352			1360				0.170		73					21.80							18.75		
3184298	77352			19				0.400		115					9800							9.92		
3184299	77352			8				0.120		139					5090							11.74		
3184300	77352			3						19					1150							8.47		
3911701	77352			530				0.080		183					2.44							4.01		

305110

MELBA FLATS EL43/92 ROCK CHIP DATABASE

SAMPLE NUMBER	DPO	Ni				Pb				Pd				Pt				S		V		Zn			
		ppm		%		ppm		%		ppm		%		ppm		%		%		ppm		ppm		%	
		ANALABS		ALS		ANALABS		ALS		ANALABS		ALS		ANALABS		ALS		ANALABS	ANALABS	ANALABS	ANALABS	ANALABS		ALS	
		GA140	GA104	IC586	A101	GA140	GA104	IC586	A101	GG314	GG316	PM217	GG314	GG316	PM217	OM613	GA140	GA140	GA104	IC586	A101	GA140	GA104	IC586	A101
		3	0.01	5	0.01	3	0.01	5	0.01	0.008	0.005	0.01	0.075	0.005	0.01	0.005	5	2	0.01	5	0.01	2	0.01	5	0.01
3308019	71516	4950																							
3308020	71516	2900																							
3308021	71516		8.94																						
3313768	71540	1851				-3																			
3313769	71540	776				3																			
3528456	71540		2.26			39				0.224	0.482		0.478	0.482		13.9	207								
3528457	71540	1159				34																			
3528458	71540	1854				30																			
3528459	71540	377				-3																			
3528460	71540	4401				10																			
3528461	71540		3.58			298				1.250	1.270		0.618	1.270		31.4	84								
3528462	71540	1162				25																			
3528463	71540	1403						4.14																	
3528464	71540	22						0.20																	
3528465	71540	-3						1.50																	
3528466	71540	78				82																			
3528470	71540	271				-3																			
3528471	71540	69				18																			
3528472	71540	1000				19																			
3528473	71540	231				5																			
3528474	71540	53				-3																			
3528475	71540	772				4																			
3528476	71540	1362				-3																			
3528477	71540	230				-3																			
3528478	71540	1706				-3																			
3184279	77352			81				137																	143
3184280	77352			2410				521																	168
3184281	77352			108				13																	85
3184282	77352			171				16																	140
3184283	77352			1170				6																	83
3184284	77352			9680				34				0.460			0.340										318
3184285	77352			176				2760																	18.20
3184286	77352			4200				135																	3620
3184287	77352			8330				112				6.130			3.060										440
3184288	77352			534				108																	147
3184289	77352			229				33																	119
3184290	77352			409				38																	122
3184291	77352			9080				89				0.250			0.340										255
3184292	77352			200				19																	197
3184293	77352			100				10																	105
3184294	77352			136				25																	144
3184295	77352			1390						22.70															12.80
3184296	77352				2.19			8.42					0.580		0.510										61500
3184297	77352			5610				1.93					1.820		0.950										16400
3184298	77352			5210				567					0.480		0.390										495
3184299	77352			5170				141					0.220		0.140										181
3184300	77352			274				148																	122
3911701	77352			9180					2.65				0.270		0.220										3.89

305111

MELBA FLATS EL43/92 ROCK CHIP DATABASE

SAMPLE NUMBER	DPO	EAST	NORTH	EL.	PROSPECT	BMR LITH	FIELD ID	TEXTURE	ALT MIN	COLOUR	COMMENTS	PET	SUSC.
												DPO	x10-5 SI
3911702	77352	366320	5367610	43/92	NORTH CUNI	Egm	Igb	DsVs	PyCp	DV	F grained. Mullock	77351	60
3911703	77352	366320	5367610	43/92	NORTH CUNI	Egm	Igb	MaVu		DG	F grained. Mullock		40
3911704	77352	366320	5367610	43/92	NORTH CUNI	Egm	Igb	Fu	Py?	MGW	Mullock heap		40
3911705	77352	366320	5367610	43/92	NORTH CUNI	Egm	Oms	Ma	CpNi?		Mullock heap		10300
3911706	77352	366320	5367610	43/92	NORTH CUNI	Egm	Oms	Ma	Py		Mullock heap		10
3911732	77354				FF TITLE		Igb		Su?	G	Float		200
3911733	77354				FF TITLE		Igb	Al		MGW	Serpentinised. Coincide with flagging "GOD?"		3000
3911734	77354				FF TITLE		Iulus			N	Mullock heap		260
3911735	77354				FF TITLE		Igb			MWG	0.6 m wide dyke conformable with Eec		50
3911736	77354				FF TITLE		Sw	We	Mn	OY			50
3911737	77354				FF TITLE		Igb	Ds	NiPy	MNW	2 x 1 m plug plunging N		70
3911738	77354				FF TITLE		Sw	We	Ma	OY			50
3911739	77354				FF TITLE		Igb				Float		40
3911740	77354				FF TITLE		Sw	We	Mn	OY			30
3911741	77354				FF TITLE		Igb			MNW	1 x 1 x 1.5 m Float		290
3911746	77354	366390	5366130	43/92	VAUDEAU	Egm	Iu	Ds	SuPy	DG	Mullock heap		90
3911751	77354	366335	5366150	43/92	VAUDEAU	Egm	Igb	We		MLVY	Exposed in trench		35
3911752	77354	366335	5366150	43/92	VAUDEAU	Ed	Sw	We		V	Exposed in trench		30
3911753	77354	366335	5366100	43/92	VAUDEAU	Ed	SwSsh			V	Intercalated Siltstone		30
3911754	77354	366390	5366130	43/92	VAUDEAU	Egm	Igb	Ds	NiPy	DVG	Mullock heap		40
3911755	77354	366390	5366130	43/92	VAUDEAU	Egm	Igb	Ds	PyNi	DVG	Mullock heap		30
3911756	77354	366390	5366130	43/92	VAUDEAU	Egm	IgbOvq	Ds	PySu	DVG	Mullock heap		20
3911747	77358	366075	5366200	43/92	VAUDEAU	Ed	SwSsh	Ln		V	Contains clasts of Ssh		50
3911748	77358	366080	5366200	43/92	VAUDEAU	Ed	Sw			DV			60
3911749	77358	366650	5366000	43/92	VAUDEAU	Ed	Cl	We	Mulle	BN	Contains angular qtz Cg. 15 cm diam.		40
3911750	77358	366635	5366000	43/92	VAUDEAU	Ed	Cl	We	Mulle	BN	Contains angular qtz Cg		55
3911757	77358	366140	5365520	43/92	NICKEL REWARD	Dgq			VnVu	WK	All veins in one plane		3
3911758	77358	366140	5365520	43/92	NICKEL REWARD	Dgq			VnVulc	WK	Veins are crosscutting. Some Fe stained vugs		4
3911759	77358	366160	5365850	43/92	NICKEL REWARD	Egm	Im	WeFe	Qtz Vu	DV	Soft. Float from hill		40
3911760	77358	366160	5365865	43/92	NICKEL REWARD	Egm	Im	Ds	PyNiCpy	MDVN	Soft		45
3911761	77358	366160	5365865	43/92	NICKEL REWARD	EgmEd?	IgbSw			V	Soft. Ssh interbedded?		40
3911762	77358	366075	5365865	43/92	NICKEL REWARD	Egm	Igb		FeVu	V	Asbestos type vein. Soft. Pits after sulphides		19
3911763	77358	366165	5365865	43/92	NICKEL REWARD	Egm	Igb		We	DV	Interbedded with Sw & Ssh		28
3911764	77358	366175	5365870	43/92	NICKEL REWARD	Egm	Igb		VuVulc	DV	Pink/brown veins. Minor qtz veins. Rare Cpy		36
3911765	77358	366175	5365870	43/92	NICKEL REWARD	EgmEd	IgbSwSsh	Ds	Cpy?Ni?	DVN			43
3911766	77358	366275	5365785	43/92	NICKEL REWARD	Ed?	Sw		Fe	DV	From diversion channel		40
3911767	77360	366275	5367560	43/92	NORTH CUNI	Egm	Igb	Ds	Py?	DG			45
3911768	77360	366320	5367620	43/92	NORTH CUNI	Egm	Igb	WeDs	Py?Ns	DG			32
3911769	77360	366800	5367685	43/92	NORTH CUNI	Ed	Sw	We		V			
3911770	77360	366270	5367750	43/92	GENET'S WINZIE	Egm	Igb	WeDs	Ns		Coastal		
3911771	77360	366385	5367800	43/92	GENET'S WINZIE	Egm	IgbIn	Ln	Ds	DG	Shaft		53
3911772	77360	366385	5367795	43/92	GENET'S WINZIE	Egm	Iu		DsNs		Shaft		90
3911773	77360	366370	5367780	43/92	GENET'S WINZIE	Egm	Igb	WeVu	Ds	MVY	Shaft. D soft Vu		50
3911774	77360	366280	5367895	43/92	NORTH CUNI	Egm	Igb		DsNsPy	G	Med grain		27
3911775	77360	366150	5367915	43/92	NORTH CUNI	Egm	Oms		GaSpQd'y				7
3911776	77360	366725	5368000	43/92	NORTH CUNI	Ed	Sbs	Ln	Py	DGN	Float		15
3911777	77360	366385	5367795	43/92	GENET'S WINZIE	Egm	Igb	We		G	Shaft. Med grain		48
3911778	77360	366880	5367450	43/92	NORTH CUNI	Egm	Igbldo			MVB			

305112

MELBA FLATS EL43/92 ROCK CHIP DATABASE

SAMPLE NUMBER	DPO	Ag			Au				Co		Cr		Cu				Fe				Mn		
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	%	%	%
		ANAL.ABS			ANAL.ABS				ANAL.ABS	ANAL.ABS	ANAL.ABS	ANAL.ABS	ANAL.ABS			ANAL.ABS	ANAL.ABS	ANAL.ABS	ANAL.ABS	ANAL.ABS	ANAL.ABS	ANAL.ABS	ANAL.ABS
		GA140	GA104	IC586	GG313	GG314	GG316	PM217	GA140	IC586	GA140	GA140	GA104	IC586	AI101	GA140	GA140	GA104	IC586	GA140	GA140	GA104	GA104
		1	10	1	0.005	0.008	0.005	0.01	3	5	7	2	0.01	5	0.01	0.01	0.1	0.01	0.01	3	0.1	0.01	
3911702	77352			10				0.380		737					2.65					20.44			
3911703	77352			4						30										12.14			
3911704	77352			4						124				756						11.26			
3911705	77352			25				1.450		1600				3770						38.76			
3911706	77352			74				2.200		34					31.30					27.37			
3911732	77354	-1							10		66	54				1.58							
3911733	77354	-1							219		2477	10							11.50				
3911734	77354	-1							92		1466	4							6.50				
3911735	77354	-1							37		136	165							10.90				
3911736	77354	7							586		81	327							17.60				
3911737	77354	-1							33		49	242				4.45							
3911738	77354	-1							50		47	123							13.80				
3911739	77354	-1							30		43	108							11.00				
3911740	77354	-1							172		138	271							16.80				
3911741	77354	-1							11		54	75				2.25							
3911746	77354	1							93		221	3967							17.30				
3911751	77354	-1							43		195	90							11.30				
3911752	77354	-1							9		145	225							11.10				
3911753	77354	-1							27		127	54							10.60				
3911754	77354	-1							84		332	453							10.50				
3911755	77354	-1							90		320	112							12.30				
3911756	77354	-1							64		226	108							11.30				
3911747	77358	-1							28		130	45							9.47				
3911748	77358	-1							28		189	58							9.34				
3911749	77358	-1							29		95	20							47.70				
3911750	77358	-1							26		51	13							52.40				
3911757	77358	-1							-3		11	10				1.21							
3911758	77358	-1							3		8	24				0.97							
3911759	77358	-1							17		89	43							9.75				
3911760	77358	-1							28		170	15							10.40				
3911761	77358	-1							25		110	13							9.88				
3911762	77358	-1							6		103	27							7.19				
3911763	77358	-1							14		103	59							7.68				
3911764	77358	-1							20		107	13							8.67				
3911765	77358	-1							27		115	55							9.08				
3911766	77358	-1							56		186	222							13.20				
3911767	77360	-1							94		327	1061							13.30				
3911768	77360	22					1.540		222		417		4.21						12.80				
3911769	77360	-1							41		191	141							12.00				
3911770	77360	-1							73		455	220							8.88				
3911771	77360	-1							23		90	235							13.50				
3911772	77360	1							39		106	1691							17.70				
3911773	77360	2					0.105		69		314		0.66						13.60				
3911774	77360	-1							15		70	245							7.13				
3911775	77360		14(60)						10		13		0.91			2.04							
3911776	77360	-1							7		67	59							5.18				
3911777	77360	-1							27		122	747							13.70				
3911778	77360	-1							37		55	70							12.40				

MELBA FLATS EL43/92 ROCK CHIP DATABASE

SAMPLE NUMBER	DPO	Ni				Pb				Pd				Pt				S		V		Zn			
		ppm		%	ppm	%	ppm		%	ppm	%	ppm	%	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%		
		ANAL.ABS			A.I.S		ANAL.ABS			A.I.S		ANAL.ABS			A.I.S		ANAL.ABS	ANAL.ABS	ANAL.ABS	ANAL.ABS	A.I.S				
		GA140	GA104	IC586	A101	GA140	GA104	IC586	A101	GG314	GG316	PM217	GG314	GG316	PM217	OM613	GA140	GA140	GA104	IC586	A101				
		3	0.01	5	0.01	3	0.01	5	0.01	0.008	0.005	0.01	0.075	0.005	0.01	0.005	5	2	0.01	5	0.01				
3911702	77352				2.90			498				0.320			0.300						356				
3911703	77352			521				98													147				
3911704	77352			4830				53													146				
3911705	77352			2720				98				0.220			0.940						214				
3911706	77352			512				397				8.590			7.260						576				
3911732	77354	88				-3												30							
3911733	77354	2975				-3												363							
3911734	77354	580				-3												119							
3911735	77354	71				7												78							
3911736	77354	474				2994												1090							
3911737	77354	13				302												442							
3911738	77354	57				25												163							
3911739	77354	40				14												91							
3911740	77354	159				9												230							
3911741	77354	31				9												44							
3911746	77354	2551				26												234							
3911751	77354	354				-3												116							
3911752	77354	94				12												85							
3911753	77354	91				-3												125							
3911754	77354	1432				6												208							
3911755	77354	1743				6												247							
3911756	77354	1514				6												209							
3911747	77358	83				36												158							
3911748	77358	100				31												184							
3911749	77358	10				26												243							
3911750	77358	9				-3												233							
3911757	77358	-3				-3												9							
3911758	77358	3				3												27							
3911759	77358	75				538												523							
3911760	77358	94				4												136							
3911761	77358	93				-3												147							
3911762	77358	32				27												53							
3911763	77358	85				-3												116							
3911764	77358	70				-3												119							
3911765	77358	82				4												115							
3911766	77358	354				12												257							
3911767	77360	2488				-3												97							
3911768	77360		0.85			452				1.440				1.900				216							
3911769	77360	128				49												227							
3911770	77360	697				530												230							
3911771	77360	108				33												91							
3911772	77360	666				23												131							
3911773	77360	3464				167				0.290				0.365				146							
3911774	77360	44				7												75							
3911775	77360	6					31.30											21.10							
3911776	77360	26				272												201							
3911777	77360	441				140												144							
3911778	77360	70				81												225							

305114

MELBA FLATS EL43/92 ROCK CHIP DATABASE

SAMPLE NUMBER	DPO	EAST	NORTH	EL.	PROSPECT	DMRTH	FIELD ID	TEXTURE	ALTMIN	COLOUR	COMMENTS	PET	SUSC.
												DPO	x10-5 SI
3911779	77360	366880	5367450	43/92	NORTH CUNI	Egm	Igbldo		Ds Py	MVB			
3911780	77360			FF TTH			Ovq			WDG			
3911781	77360			FF TTH			Sss	We		WY			
3911782	77360			FF TTH				We Vu		DG	Qrz stockwork. No specific orientation.		
3911783	77360			FF TTH			Ssh			DG			
3911784	77360			FF TTH			Ssh	Fe Vu		G	Vu after siderite.		
3911785	77360			FF TTH			Sss	Vu		MBW	Minor Vu		
3911786	77366	366330	5366750	43/92	SOUTH CUNI	Egm	Iu	We Vs	CpPyQz	ANY	Fine grained pyroxinite?	77367	
3911787	77366	366330	5366750	43/92	SOUTH CUNI	Egm	Iu		CpNi?	DGS	Fine grained pyroxinite?	77367	
3911788	77366	366330	5366750	43/92	SOUTH CUNI	Oms	Iu	Iu	PyNi	ALYN	Fine grained pyroxinite?	77367	
3911789	77366	366330	5366750	43/92	SOUTH CUNI	Egm	Iu	Fe	DsNi?Cp	DG	F.g pyrox with fine sulph needles (millerite?)		
3911790	77366	366330	5366750	43/92	SOUTH CUNI	Oms	Iu	We	CcCp	ABNPy	Chalcocite		
3911791	77366	366330	5366750	43/92	SOUTH CUNI	Egm	Iu	We	CcPy	APN			
3911792	77366	366330	5366750	43/92	SOUTH CUNI	Oms	Iu		CcNi?Py	ANS		77367	
3911793	77366	366330	5366750	43/92	SOUTH CUNI		Gs	We?		KN		77367	
3911794	77366	366330	5366750	43/92	SOUTH CUNI	Oms	Iu	We	SuNiPy	BY	Bronze coloured fine xals with Py		
3911795	77366	366090	5367430	43/92	NORTH CUNI	Ed	Sbs		SpQzGa	AWDRS	Old workings		
3911796	77370	366150	5367200	43/92	NORTH CUNI	Ed	Sw	W spots		V	Medium grained		
3911797	77370	366150	5367200	43/92	NORTH CUNI	Ed	Sw	W spots		V	Medium grained		
3911798	77370	366150	5367200	43/92	NORTH CUNI	Ed/Egm?	Sw/Igb?	We		GN			
3911799	77370	366150	5367200	43/92	NORTH CUNI	Egm?	Igb?	Po		MIBG			
3911800	77370	366150	5367200	43/92	NORTH CUNI	Ed/Egm?	Ssl/Igb?			MWN	Fine grained W shale with gabbro?		
3757299	77231	366840	5367350	43/92	NORTH CUNI	Eg	Igb	Ds	Ni Po?	G	Medium grained Igb with Ds etc.		
3757300	77231	366850	5367350	43/92	NORTH CUNI	Eg	Igb	Ds	Ni Po?	G	Medium grained Igb with Ds etc.		

305115

MELBA FLATS EL43/92 ROCK CHIP DATABASE

SAMPLE NUMBER	DPO	Ag			Au				Co		Cr	Cu				Fe				Mn			
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	%	%	
		ANAL ABS		ALS	ANAL ABS			ALS	ANAL ABS	ALS	ANAL ABS	ANAL ABS		ALS	ANAL ABS			ALS	ANAL ABS			ALS	
		GA140	GA104	IC586	GG313	GG314	GG316	PM217	GA140	IC586	GA140	GA140	GA104	IC586	A101	GA140	GA140	GA104	IC586	GA140	GA140	GA104	
		1	10	1	0.005	0.008	0.005	0.01	3	5	7	2	0.01	5	0.01	0.01	0.1	0.01	0.01	3	0.1	0.01	
3911779	77360	-1							30		25	119						15.00					
3911780	77360				12.400																		
3911781	77360				0.019																		
3911782	77360				1.740																		
3911783	77360				0.421																		
3911784	77360				0.013																		
3911785	77360				0.005																		
3911786	77366		153			2.560			192		131		14.00				13.0			454			
3911787	77366	28				0.356			1065		261		4.44				16.9			404			
3911788	77366	26				0.491			2746		64		10.40				15.2			240			
3911789	77366	-1				0.136			78		165		1.33				18.4			1133			
3911790	77366	-1				0.557			1497		100		3.78				32.2			26			
3911791	77366	-1				0.230			1177		62		3.05				26.0			52			
3911792	77366	-1				0.560			1810		257		3.82				32.8			92			
3911793	77366	10				0.952			489		316	1210					40.3			728			
3911794	77366	3				0.726			973		24		3.74				38.9			10			
3911795	77366		510						31		8	105				1.40				163			
3911796	77370	-1							6		130	60					10.5			598			
3911797	77370	-1							16		109	9					12.0			514			
3911798	77370	-1							16		141	11					12.1			640			
3911799	77370	-1							20		137	14					11.5			634			
3911800	77370	-1							14		132	27					7.4			386			
3757299	77231	-1							18		13	55					9.6			525			
3757300	77231	-1							29		51	57					8.4			760			

305116

MELBA FLATS EL43/92 ROCK CHIP DATABASE

SAMPLE NUMBER	DPO	Ni				Pb				Pd			Pt			S	V	Zn																			
		ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%																
		ANALABS		ALS		ANALABS		ALS		ANALABS		ALS		ANALABS		ALS	ANALABS	ANALABS	ANALABS		ALS																
		GA140	GA104	IC586	A101	GA140	GA104	IC586	A101	GG314	GG316	PM217	GG314	GG316	PM217	OM613	GA140	GA140	GA104	IC586	A101																
		3	0.01	5	0.01	3	0.01	5	0.01	0.008	0.005	0.01	0.075	0.005	0.01	0.005	5	2	0.01	5	0.01																
3911779	77360	34				28												269																			
3911780	77360																																				
3911781	77360																																				
3911782	77360																																				
3911783	77360																																				
3911784	77360																																				
3911785	77360																																				
3911786	77366					2.47												269				8.780	1.720	308													
3911787	77366					3.15												49				0.418	0.224	122													
3911788	77366					7.70												31				0.551	0.354	118													
3911789	77366	4186				219											372																				
3911790	77366					59											0.960				1.280	164															
3911791	77366					53											1.140				1.160	227															
3911792	77366					4.50											38				0.323	0.780	73														
3911793	77366					3.53											83				2.700	1.640	84														
3911794	77366					3.76											62				0.235	1.150	68														
3911795	77366					105											26.60																	23.60			
3911796	77370					60																															
3911797	77370					78																															
3911798	77370					84																															
3911799	77370	70				7												108																			
3911800	77370	47				51												71																			
3757299	77231	4				9												60																			
3757300	77241	30				8												91																			

305117

**ANALABS**A Division of Incharge Testing Services (Australia) Pty. Ltd.
A.C.N. 004 591 684

305118

Phone (004) 318837

14 Thirkeil St. 80855 TAS 7320

Fax (004) 318890

ANALYTICAL REPORT No.

104165.60.10099

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

- ORDER No.

PROJECT

INVOICE TO:

Mr D Hayward
CRA Exploration Pty Limited
P.O. Box 8093
NORTHLAND CENTRE VIC 3072

27358

DATE RECEIVED

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23/02/94

ASAP

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27/04/94

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OF SAMPLES

14

SAMPLE NUMBERS

SAMPLE DESCRIPTION

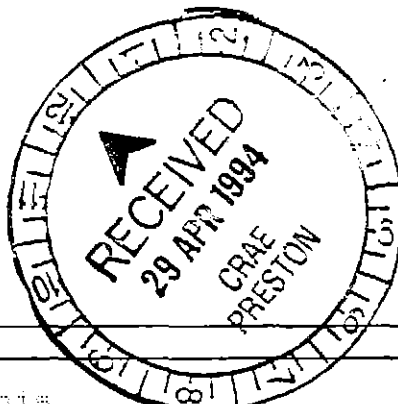
ELEMENT/METHOD

3911747/80.3911757/66

PU Pres 1 8P033 - CHROME FREE BOWLE

Cu,Pb,Zn,Ag,Co,Cr,Fe,Ni/BA140

Fe/BA104



RESULTS

TO

Mr T Aravanis
CRA Exploration Pty Limited
P.O. Box 8093
NORTHLAND CENTRE VIC 3072

RESULTS

TO

Mr D Hayward
CRA Exploration Pty Limited
P.O. Box 8093
NORTHLAND CENTRE VIC 3072

RESULTS

TO

CRAE Information Systems
P.O. Box 3709
MANUKA ACT 2603

REMARKS

AUTHORISED OFFICER



305119

ANALYTICAL DATA

SAMPLE PREFIX:

REPORT No:

REPORT DATE

CLIENT ORDER No.

PAGE:

		104165.60.10099				27/04/94		77358		1 OF 1	
	SAMPLE No	Cu	Pb	Zn	Ag	Fe	Fe	Co	Cr	Ni	
ETHOD		GA140	GA140	GA140	GA140	GA140	GA104	GA140	GA140	GA140	
1	3911747	45	36	158	<1	-	9.47	28	130	83	
2	3911748	58	31	184	<1	-	9.34	28	189	100	
3	3911749	20	26	243	<1	-	47.70	29	95	10	
4	3911750	13	<3	233	<1	-	52.40	26	51	9	
5	3911757	10	<3	9	<1	1.21	-	<3	11	<3	
6	3911758	24	3	27	<1	0.97	-	3	8	3	
7	3911759	43	538	523	<1	-	9.75	17	89	75	
8	3911760	15	4	136	<1	-	10.40	28	170	94	
9	3911761	13	<3	147	<1	-	9.88	25	110	93	
10	3911762	27	27	53	<1	-	7.19	6	103	32	
11	3911763	59	<3	116	<1	-	7.68	14	103	85	
12	3911764	13	<3	119	<1	-	8.67	20	107	70	
13	3911765	55	4	115	<1	-	9.08	27	115	82	
14	3911766	222	12	257	<1	-	13.20	58	186	354	
15											
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	2	3	2	1	0.01	0.01	3	7	3	
25	UNITS	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	

Results in ppm unless otherwise specified
-- = element not determinedIS = insufficient sample
SNR = sample not receivedAUTHORISED
OFFICER

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

305120

Phone (004) 316837

14 Thirkell St. COOEE TAS 7823

Fax (004) 318890

ANALYTICAL REPORT No.

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

INVOICE TO:

Mr C Hayward
CRA Exploration Pty Limited
P.O. Box 6093
NORTHLAND CENTRE VIC 3072

77360

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15/04/94

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13/03/94

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TOTAL No.
OF SAMPLES

19

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

3911767/3911785

RC Prep : SP033 CHROME FREE BOWLS

Ag,Co,Cu,Fe,Ni,Pb,Zn,Cr/6A140

Au,Pt,Pd/6G316

Au/6G313

Cu,Pb,Zn,Ag,Fe,Ni/6A104

RESULTS

TO

Mr T Aravanis
CRA Exploration Pty Limited
P.O. Box 6093
NORTHLAND CENTRE VIC 3072

RESULTS

TO

Mr C Hayward
CRA Exploration Pty Limited
P.O. Box 6093
NORTHLAND CENTRE VIC 3072

RESULTS

TO

CRAE Information Systems
P.O. Box 3709
MANUKA ACT 2603

REMARKS

AUTHORISED OFFICER



ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104165.60.10143

13/05/94

77360

1 OF 2

	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	Cr
METHOD		GA140	GA104	GA140	GA104	GA140	GA104	GA140	GA104	GA140
1	3911767	3061	-	<3	-	97	-	<1	-	327
2	3911768	-	4.21	452	-	216	-	22	-	417
3	3911769	141	-	49	-	227	-	<1	-	194
4	3911770	220	-	530	-	230	-	<1	-	455
5	3911771	235	-	33	-	91	-	<1	-	90
6	3911772	1693	-	23	-	131	-	1	-	106
7	3911773	-	0.66	167	-	146	-	2	-	314
8	3911774	245	-	7	-	75	-	<1	-	70
9	3911775	-	0.91	-	31.30	-	21.10	-	1460	13
10	3911776	59	-	272	-	201	-	<1	-	67
11	3911777	747	-	140	-	144	-	<1	-	122
12	3911778	70	-	81	-	225	-	<1	-	55
13	3911779	119	-	28	-	269	-	<1	-	25
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	2	0.01	3	0.01	2	0.01	1	10	7
25	UNITS	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm

Results in ppm unless otherwise specified.
 - = element not determined.

IS = insufficient sample.
 SNR = sample not received.

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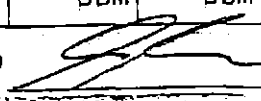
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10143			13/05/94		77360		2 OF 2	
	SAMPLE No.	Fe	Fe	Co	Ni	Ni	Au	Au	Pt	Pd	
METHOD		GA140	GA104	GA140	GA140	GA104	GG313	GG316	GG316	GG316	
1	3911767	-	13.30	94	2488	-	-	-	-	-	
2	3911768	-	12.80	222	-	0.85	-	1.540	1.440	1.900	
3	3911769	-	12.00	41	128	-	-	-	-	-	
4	3911770	-	8.88	73	697	-	-	-	-	-	
5	3911771	-	13.50	23	108	-	-	-	-	-	
6	3911772	-	17.70	39	666	-	-	-	-	-	
7	3911773	-	13.60	69	3464	-	-	0.105	0.290	0.365	
8	3911774	-	7.13	15	44	-	-	-	-	-	
9	3911775	2.04	-	10	6	-	-	-	-	-	
10	3911776	-	5.18	7	26	-	-	-	-	-	
11	3911777	-	13.70	27	441	-	-	-	-	-	
12	3911778	-	12.40	37	70	-	-	-	-	-	
13	3911779	-	15.00	30	34	-	-	-	-	-	
14	3911780	-	-	-	-	-	42.400	-	-	-	
15	3911781	-	-	-	-	-	0.019	-	-	-	
16	3911782	-	-	-	-	-	1.740	-	-	-	
17	3911783	-	-	-	-	-	0.421	-	-	-	
18	3911784	-	-	-	-	-	0.013	-	-	-	
19	3911785	-	-	-	-	-	<0.005	-	-	-	
20											
21											
22											
23											
24	DETECTION	0.01	0.01	3	3	0.01	0.005	0.005	0.050	0.005	
25	UNITS	%	%	ppm	ppm	%	ppm	ppm	ppm	ppm	

Results in ppm unless otherwise specified.
- = element not determined.

IS = insufficient sample
SNA = sample not received.

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Amalab Pty. Ltd.

LC# 00450766

ANALYTICAL DATA

SAMPLER RECORD RECORDED RECORDED CLIENT ORDER NO. PAGE

104165.60.10305

08/08/94

77366

1 OF 7

1	3911786	-	14.00	249	-	308	-	-	153	-
2	3911787	-	4.44	49	-	122	-	29	-	-
3	3911788	-	10.40	31	-	118	-	26	-	-
4	3911789	-	1.33	219	-	372	-	<1	-	-
5	3911790	-	3.78	59	-	164	-	<1	-	-
6	3911791	-	3.05	53	-	227	-	<1	-	-
7	3911792	-	3.82	38	-	73	-	<1	-	-
8	3911793	1210	-	83	-	84	-	10	-	-
9	3911794	-	3.74	62	-	68	-	5	-	-
10	3911795	1190	-	-	26.60	-	23.60	-	810	1.48
11	3991598	468	-	130	-	168	-	<1	-	-
12	3991599	345	-	350	-	266	-	<1	-	-
13	3991600	766	-	-	2.13	369	-	17	-	-
14	3991601	104	-	4023	-	99	-	<1	-	-
15	3991602	201	-	820	-	158	-	<1	-	-
16	3991603	92	-	43	-	234	-	<1	-	-
17	3991604	120	-	27	-	363	-	<1	-	-
18	3991605	48	-	48	-	138	-	<1	-	-
19	3991606	39	-	16	-	177	-	<1	-	-
20	3991607	76	-	157	-	398	-	<1	-	-
21	3991608	33	-	27	-	135	-	<1	-	-
22	3991609	36	-	24	-	111	-	<1	-	-
23	3991610	65	-	73	-	151	-	<1	-	-
24	3991611	36	-	135	-	129	-	<1	-	-
25	3991612	122	-	395	-	431	-	<1	-	-

Results provided to the client

S - insufficient sample

SNT - sample not tested

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OFFICE



ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104155.50.10305

08/08/94

77366

2 OF 7

	SAMPLE NAME	Cu	Pb	Pb	Zn	Zn	Ag	Ag	
METHOD		GA140	GA140	GA140	GA140	GA140	GA140	GA140	GA140
1	3991613	50	-	25	-	410	-	<1	-
2	3991614	105	-	88	-	169	-	<1	2.72
3	3991615	89	-	751	-	309	-	<1	-
4	3991616	104	-	21	-	141	-	<1	-
5	3991617	27	-	43	-	132	-	<1	-
6	3991618	50	-	28	-	215	-	<1	-
7	3991619	53	-	23	-	172	-	<1	4.17
8	3991620	91	-	107	-	948	-	<1	-
9	3991621	1866	-	21	-	154	-	<1	-
10	3991622	422	-	24	-	498	-	<1	-
11	3991623	466	-	8	-	303	-	<1	-
12	3991624	69	-	17	-	1033	-	<1	-
13	3991625	79	-	45	-	1159	-	<1	-
14	3991626	109	-	35	-	666	-	<1	-
15	3991627	76	-	21	-	236	-	<1	-
16	3991628	1295	-	26	-	410	-	<1	-
17	3991629	83	-	20	-	1109	-	<1	-
18	3991630	88	-	24	-	1259	-	<1	-
19	3991631	264	-	30	-	1066	-	<1	-
20	3991632	53	-	25	-	294	-	<1	-
21	3991633	64	-	34	-	456	-	<1	-
22	3991634	85	-	43	-	359	-	<1	-
23	3991635	41	-	9	-	152	-	<1	-
24	3991636	50	-	19	-	158	-	<1	-
25	3991637	61	-	47	-	241	-	<1	-

Results in parentheses unless otherwise specified
- element not determinedIS = insufficient sample
SNR = sample not receivedAUTHORISED
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Analabs

Analabs Pty. Ltd.

A/CN3004601884

ANALYTICAL DATA

SAMPLE PREFIX

REPORTING

REPORT DATE

CLIENT ORDER No.

PAGE

104165.60.10505

08/08/94

77366

3 OF 7

	SAMPLE No.	CU	CU	Pb	Pb	Zn	Zn	Ag	Ag	
METHOD		GA140	GA104	GA140	GA104	GA140	GA104	GA140	GA104	GA140
1	3991638	42	-	22	-	340	-	<1	-	-
2	3991639	42	-	3	-	782	-	<1	-	-
3	3991640	55	-	22	-	616	-	<1	-	-
4	3991641	72	-	95	-	451	-	<1	-	-
5	3991642	47	-	342	-	570	-	7	-	-
6	3991643	138	-	143	-	566	-	<1	-	-
7	3991644	100	-	96	-	1754	-	<1	-	-
8	3991645	57	-	69	-	79	-	<1	-	5.42
9	3991646	71	-	115	-	480	-	<1	-	-
10	3991647	62	-	24	-	215	-	<1	-	-
11	3991648	26	-	19	-	208	-	<1	-	-
12	3991649	129	-	7	-	228	-	<1	-	-
13	3991650	106	-	23	-	662	-	<1	-	-
14	3991651	90	-	29	-	332	-	<1	-	-
15	3991652	52	-	14	-	325	-	<1	-	-
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	2	0.01	3	0.01	2	0.01	1	10	0.01
25	UNITS	ppm	%	ppm	%	ppm	%	ppm	ppm	%

Results in ppm unless otherwise specified. IS = insufficient sample

- element not determined - SNR = sample not received

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Analabs

ANALYTICAL DATA

104165.60.10305

06/08/94

77366

4 OF 7

	Sample	Frequency	Power	Phase	Amplitude	Phase	Amplitude	Phase	Amplitude	Phase
	Hz	dBm	dBm	deg	dBm	deg	dBm	deg	dBm	deg
1	3911786	13.0	454	-	131	192	-	2.47	2.560	8.780
2	3911787	18.9	404	-	251	1065	-	3.15	0.355	0.419
3	3911788	15.2	240	-	64	2746	-	7.70	0.491	0.551
4	3911789	18.4	1135	-	165	78	4189	-	0.176	0.504
5	3911790	32.2	28	-	100	1497	-	10.20	0.557	0.980
6	3911791	26.0	52	-	62	1177	-	10.40	0.230	1.140
7	3911792	32.8	92	-	257	1810	-	4.50	0.560	0.323
8	3911793	40.3	728	-	316	489	-	3.53	0.952	2.700
9	3911794	36.9	10	-	24	975	-	3.76	0.725	0.235
10	3911795	-	163	-	5	31	105	-	-	-
11	3991598	15.1	245	-	147	13	172	-	-	-
12	3991599	12.5	631	-	172	24	315	-	-	-
13	3991600	11.3	-	1.7	178	50	150	-	-	-
14	3991601	10.0	146	-	105	5	78	-	-	-
15	3991602	10.5	397	-	167	20	252	-	-	-
16	3991603	5.5	690	-	153	33	236	-	-	-
17	3991604	7.9	912	-	372	68	460	-	-	-
18	3991605	6.7	404	-	117	28	155	-	-	-
19	3991606	7.7	435	-	125	35	138	-	-	-
20	3991607	6.7	559	-	102	59	175	-	-	-
21	3991608	8.1	414	-	201	26	55	-	-	-
22	3991609	10.2	566	-	156	19	84	-	-	-
23	3991610	10.3	479	-	184	19	84	-	-	-
24	3991611	11.5	985	-	213	20	117	-	-	-
25	3991612	10.2	806	-	94	41	86	-	-	-

Results are approximate unless otherwise specified.

NIS - insufficient sample

Results not determined

SNR - sample not received

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Analabs

Analabs Pty. Ltd.

A.C.N. 004591864

ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104165.60.10305

08/08/94

77366

5 OF 7

	SAMPLE No.	Fe (1)	Mn	Mn (E)	Cr	Co	Ni	Ni	Au	Pd
METHOD		GAL40	GAL40	GAL40	GAL40	GAL40	GAL40	GAL40	GG SY 45	GG SY 45
1	3991613	10.5	881	-	17	66	60	-	-	-
2	3991614	-	106	-	107	48	136	-	-	-
3	3991615	6.4	189	-	145	20	84	-	-	-
4	3991616	6.9	830	-	344	65	474	-	-	-
5	3991617	6.3	580	-	88	38	100	-	-	-
6	3991618	7.9	447	-	146	41	100	-	-	-
7	3991619	-	196	-	48	38	135	-	-	-
8	3991620	9.4	689	-	131	70	477	-	-	-
9	3991621	8.7	960	-	416	106	1881	-	-	-
10	3991622	6.9	864	-	420	71	1364	-	-	-
11	3991623	9.1	1018	-	376	90	1111	-	-	-
12	3991624	16.4	352	-	182	32	433	-	-	-
13	3991625	7.0	429	-	189	55	890	-	-	-
14	3991626	9.2	448	-	107	47	226	-	-	-
15	3991627	6.8	635	-	102	42	164	-	-	-
16	3991628	15.6	869	-	730	90	776	-	-	-
17	3991629	17.6	3312	-	212	90	384	-	-	-
18	3991630	12.8	1754	-	154	274	797	-	-	-
19	3991631	14.4	1963	-	910	110	1029	-	-	-
20	3991632	6.7	854	-	110	41	75	-	-	-
21	3991633	6.9	715	-	94	16	30	-	-	-
22	3991634	6.6	936	-	192	37	112	-	-	-
23	3991635	7.0	470	-	60	17	58	-	-	-
24	3991636	6.2	471	-	105	28	75	-	-	-
25	3991637	6.2	571	-	152	34	90	-	-	-

Results in ppm unless otherwise specified.
- = element not determinedIS = insufficient sample
SNR = sample not receivedAUTHORISED
OFFICER



Analabs

305129
Analabs Pty. Ltd.
A.C.N. 004 591 664

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NO.

REPORT DATE

CLIENT ORDER NO.

PAGE

			104155.50.10505			08/08/94		77366		5 OF 7	
	SAMPLE No.	Fe(1)	Mn	Mn(1)	Cr	Co	Ni	Ni	As	As	
METHOD		GA140	GA140	GA140	GA140	GA140	GA140	GA140	GA140	GA140	
1	3991638	10.7	475	-	17	26	28	-	-	-	
2	3991639	21.0	862	-	14	40	61	-	-	-	
3	3991640	16.6	831	-	07	139	96	-	-	-	
4	3991641	9.6	1094	-	283	41	67	-	-	-	
5	3991642	10.2	103	-	108	7	31	-	-	-	
6	3991643	2.2	460	-	176	48	143	-	-	-	
7	3991644	7.1	448	-	134	32	264	-	-	-	
8	3991645	-	141	-	38	10	34	-	-	-	
9	3991646	7.8	1335	-	207	70	277	-	-	-	
10	3991647	11.2	1167	-	103	32	120	-	-	-	
11	3991648	7.7	927	-	51	39	131	-	-	-	
12	3991649	9.6	1307	-	323	36	492	-	-	-	
13	3991650	7.9	601	-	132	21	152	-	-	-	
14	3991651	9.0	590	-	67	26	99	-	-	-	
15	3991652	8.1	640	-	103	38	118	-	-	-	
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	0.1	3	0.1	3	3	0.01	0.008	0.008		
25	UNITS	%	ppm	%	ppm	ppm	%	ppm	ppm		

Results in ppm unless otherwise specified
- = element not determined

IS = insufficient sample
SNR = sample not received

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305130



Analabs

Analabs Pty. Ltd.

ACN 004591684

ANALYTICAL DATA

104165.60.10305

08/08/94

77366

7 OF 7

SAMPLE NO.									
METHOD									
1	3911786	1.720							
2	3911787	0.224							
3	3911788	0.354							
4	3911789	0.360							
5	3911790	1.280							
6	3911791	1.160							
7	3911792	0.780							
8	3911793	1.640							
9	3911794	1.150							
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24	DETECTION	0.075							
25	UNITS	ppm							

in ppm unless otherwise specified
 - not not determined

IS = insufficient sample
 SNR = sample not received

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 OFFICER



RECEIVED

11 AUG 1994

DAME
PILTON

Fax: 004 591 664

Project: A-10000

In: 10/08/94 09:00:00

ANALYTICAL REPORT No.

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

INVOICE TO:

10/08/94 09:00:00
 10/08/94 09:00:00
 10/08/94 09:00:00

ORDER No.

PROJECT

DATE RECEIVED

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No. OF PAGES
OF RESULTS

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10/08/94 09:00:00
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SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

10/08/94 09:00:00

10/08/94 09:00:00

10/08/94 09:00:00

10/08/94 09:00:00

REMARKS

Re 10/08/94 results are over the recommended analytical range for this test.

RESULTS
TO

10/08/94 09:00:00
10/08/94 09:00:00
10/08/94 09:00:00

RESULTS
TO

10/08/94 09:00:00
10/08/94 09:00:00
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RESULTS
TO

10/08/94 09:00:00
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AUTHORISED OFFICER

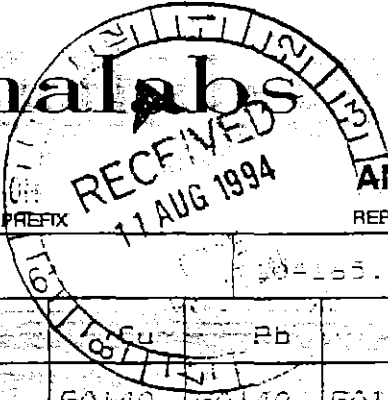


Analabs

305132

Analabs Pty. Ltd.

A.C.N. 004 591 664



ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

		304155.50.10330		09/08/94		77370		1 OF 2		
	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	Fe(1)	Mn	Co	Gr
METHOD		GA140	GA140	GA140	GA140	GA140	GA140	GA140	GA140	GA140
1	3911785	50	4	108	1	-	10.8	598	8	150
2	3911787	8	13	107	1	-	12.0	514	15	109
3	3911788	11	10	108	1	-	12.1	640	16	141
4	3911789	14	7	108	1	-	11.5	634	20	137
5	3911800	27	51	71	1	-	7.8	386	14	102
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	2	3	2	1	0.01	0.1	3	3	7
25	UNITS	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm

Results in ppm unless otherwise specified.
- = element not determined.

IS = insufficient sample
SNR = sample not received

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OFFICER

**ANALYTICAL DATA**

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104155.50.10330

09/08/94

7737

1 OF 1

SAMPLE
No.

N1

METHOD

GA140

1

0911796

50

2

0911797

78

3

0911798

34

4

0911799

70

5

0911800

47

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

DETECTION

0

25

UNITS

ppm

Results in ppm unless otherwise specified
-- = element not determinedIS = insufficient sample
SNR = sample not received.AUTHORISED
OFFICER

Fax (0041) 316890

104165, 60, 10739

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PROJECT

77231

RESULTS REQUIRED

ASGF

TOTAL No. OF SAMPLES

11

377

AUTHORISED OFFICER

ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104165.60.10739

16/03/95

77231

3 OF 33

METHOD	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(I)	Mn	Mn(I)
		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140
1	3757289	29	17	122	-	<1	-	6.9	793	-
2	3757290	91	34	2803	-	<1	-	6.1	516	-
3	3757291	41	38	53	-	<1	-	7.1	45	-
4	3757292	87	64	143	-	<1	2.00	-	112	-
5	3757293	87	11	69	-	<1	-	7.5	104	-
6	3757294	26	19	49	-	<1	2.53	-	56	-
7	3757295	29	15	185	-	<1	4.78	-	121	-
8	3757296	78	21	281	-	<1	-	8.5	264	-
9	3757297	53	31	159	-	<1	4.96	-	293	-
10	3757298	41	66	691	-	<1	-	21.6	697	-
11	3757299	55	9	60	-	<1	-	9.6	525	-
12	3757300	57	8	91	-	<1	-	8.4	760	-
13	3991653	83	107	433	-	<1	-	5.8	117	-
14	3991654	747	107	873	-	<1	-	5.8	662	-
15	3991655	105	92	316	-	<1	4.56	-	166	-
16	3991656	50	854	216	-	<1	-	7.5	408	-
17	3991657	13	9	45	-	<1	3.97	-	107	-
18	3991658	56	26	71	-	<1	-	7.0	87	-
19	3991659	29	40	79	-	<1	3.33	-	46	-
20	3991660	70	53	182	-	<1	-	7.9	81	-
21	3991661	29	64	519	-	<1	-	6.6	211	-
22	3991662	29	54	540	-	<1	-	7.1	545	-
23	3991663	119	86	805	-	<1	-	18.5	744	-
24	3991664	25	38	96	-	<1	-	5.6	85	-
25	3991665	103	27	491	-	<1	3.59	-	258	-

Results in ppm unless otherwise specified.
- = element not determined.

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104165.60.10739

16/03/95

77231

19 OF 33

METHOD	SAMPLE No.	Mn	Co	Cr	Cr(I)	Ni	Au	Au(R)	Pt	Pt(R)
		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316
1	3757289	-	32	244	-	83	-	-	-	-
2	3757290	-	41	146	-	147	-	-	-	-
3	3757291	-	3	482	-	29	-	-	-	-
4	3757292	-	4	454	-	27	-	-	-	-
5	3757293	-	7	863	-	15	-	-	-	-
6	3757294	-	5	754	-	10	-	-	-	-
7	3757295	-	6	1663	-	16	-	-	-	-
8	3757296	-	69	3759	-	146	-	-	-	-
9	3757297	-	15	792	-	42	-	-	-	-
10	3757298	-	49	2268	-	121	-	-	-	-
11	3757299	-	18	13	-	4	-	-	-	-
12	3757300	-	29	53	-	30	-	-	-	-
13	3991653	-	17	196	-	232	-	-	-	-
14	3991654	-	24	220	-	169	-	-	-	-
15	3991655	-	54	92	-	99	-	-	-	-
16	3991656	-	13	170	-	49	-	-	-	-
17	3991657	-	3	112	-	9	-	-	-	-
18	3991658	-	<3	165	-	16	-	-	-	-
19	3991659	-	4	134	-	32	-	-	-	-
20	3991660	-	6	184	-	41	-	-	-	-
21	3991661	-	44	91	-	109	-	-	-	-
22	3991662	-	56	116	-	152	-	-	-	-
23	3991663	-	57	288	-	250	-	-	-	-
24	3991664	-	9	188	-	28	-	-	-	-
25	3991665	-	114	125	-	184	-	-	-	-

Results in ppm unless otherwise specified
 - = element not determined

IS = insufficient sample
 SNR = sample not received

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APPENDIX II
SOIL GEOCHEMISTRY SAMPLE LEDGER AND LABORATORY REPORTS

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 SI
3757239	77231	366560	5367800	43/92	NORTH CUNI	SA	0.5	A/C	R	V/B	Ccy.	Alluvial sediment cover	13
3757240	77231	366580	5367800	43/92	NORTH CUNI	SA	0.5	A/C	R	V/B	Ccy.		11
3757241	77231	366620	5367800	43/92	NORTH CUNI	SA	0.5	C	R	G	Ccy.		9
3757242	77231	366640	5367800	43/92	NORTH CUNI	SA	0.5	C	R	G	Ccy.		7
3757243	77231	366660	5367800	43/92	NORTH CUNI	SA	0.1	A/C	R	G	Ccy w/ R.F.s.		5
3757244	77231	366680	5367800	43/92	NORTH CUNI	SA	0.1	A/C	R	G	Ccy w/ R.F.s.		20
3757245	77231	366700	5367800	43/92	NORTH CUNI	SA	0.1	A/C	R	G	Ccy w/ R.F.s.		10
3757246	77231	366720	5367800	43/92	NORTH CUNI	SA	0.1	A/C	R	G	Ccy w/ R.F.s.		14
3757247	77231	366740	5367800	43/92	NORTH CUNI	SA	0.5	C?	R?	G	Ccy.		8
3757248	77231	366760	5367800	43/92	NORTH CUNI	SA	0.4	C	R	G	Ccy.		5
3757249	77231	366780	5367800	43/92	NORTH CUNI	SA	0.4	C	R	G	Ccy.		5
3757250	77231	366800	5367800	43/92	NORTH CUNI	SA	0.2	C	R	N	Ccy w/ NSsh R.F.s.		5
3757251	77231	366820	5367800	43/92	NORTH CUNI	SA	0.4	C	R	G	Ccy.		6
3757252	77231	366840	5367800	43/92	NORTH CUNI	SA	0.4	C	R	G	Ccy.		7
3757253	77231	366280	5367600	43/92	NORTH CUNI	SA	0.6	C	R	V	Ccy.		11
3757254	77231	366300	5367600	43/92	NORTH CUNI	SA	0.4	C	R?	V	Ccy.		7
3757255	77231	366320	5367600	43/92	NORTH CUNI	SA	0.6	C	R?	O	Ccy.		12
3757256	77231	366340	5367600	43/92	NORTH CUNI	SA	0.6	C	R?	O	Ccy.		6
3757257	77231	366360	5367600	43/92	NORTH CUNI	SA	0.6	C	R	O	Ccy w/ minor Vq		8
3757258	77231	366380	5367600	43/92	NORTH CUNI	SA	0.6	C	R	G	Ccy.		7
3757259	77231	366400	5367600	43/92	NORTH CUNI	SA	0.6	C	R	G	Ccy.		8
3757260	77231	366420	5367600	43/92	NORTH CUNI	SA	0.6	C	R	O	Ccy.		17
3757261	77231	366440	5367600	43/92	NORTH CUNI	SA	0.6	C	R	O	Ccy.		20
3757262	77231	366460	5367600	43/92	NORTH CUNI	SA	0.6	C	R	O	Ccy.		7
3757263	77231	366480	5367600	43/92	NORTH CUNI	SA	0.6	C	R		Ccy w/ V Ssh R.F.s.		14
3757264	77231	366500	5367600	43/92	NORTH CUNI	SA	0.6	C	R	V	Ccy.		10
3757265	77231	366520	5367600	43/92	NORTH CUNI	SA	0.6	C	R	O	Ccy.		8
3757266	77231	366540	5367600	43/92	NORTH CUNI	SA	0.6	C	R	N	Ccy.		8
3757267	77231	366560	5367600	43/92	NORTH CUNI	SA	0.6	C	R	G	Ccy.		5
3757268	77231	366580	5367600	43/92	NORTH CUNI	SA	0.6	C	R	G	Ccy.		6
3757269	77231	366600	5367600	43/92	NORTH CUNI	SA	0.6	C	R	G	Ccy.		6
3757270	77231	366620	5367600	43/92	NORTH CUNI	SA	0.9	C	R	N	Ccy.	After N Ssh	7
3757271	77231	366640	5367600	43/92	NORTH CUNI	SA	0.9	C	R	G/N	Ccy.		5
3757272	77231	366660	5367600	43/92	NORTH CUNI	SA	0.9	C	R	G/N	Ccy.		12
3757273	77231	366680	5367600	43/92	NORTH CUNI	SA	0.9	C	R	G/N	Ccy.		12
3757274	77231	366700	5367600	43/92	NORTH CUNI	SA	0.9	C	R	V	Ccy.		8
3757275	77231	366720	5367600	43/92	NORTH CUNI	SA	0.9	C	R	V	Ccy.	780E Alluvium > 1m	6
3757276	77231	366740	5367600	43/92	NORTH CUNI	SA	0.9	C	R	V	Ccy.		10
3757277	77231	366760	5367600	43/92	NORTH CUNI	SA	0.9	C	R	V	Ccy.		12
3757278	77231	366800	5367600	43/92	NORTH CUNI	SA	0.9	C	R	N/G	Ccy.		11
3757279	77231	366820	5367600	43/92	NORTH CUNI	SA	0.9	C	R	N/G	Ccy.		11
3757280	77231	366840	5367600	43/92	NORTH CUNI	SA	0.9	C	R	N/G	Ccy.		13
3757281	77231	336470	5367350	43/92	NORTH CUNI	SA	0.7	C	R	G	Ccy.		10
3757282	77231	336490	5367350	43/92	NORTH CUNI	SA	0.7	C	R	G	Ccy.		5
3757283	77231	366510	5367350	43/92	NORTH CUNI	SA	0.7	C	R	N	Ccy.		12
3757284	77231	366530	5367350	43/92	NORTH CUNI	SA	0.8	C	R	G	Ccy.		16
3757285	77231	366550	5367350	43/92	NORTH CUNI	SA	0.6	A/C	R	V	Ccy w/ Sw R.F.s.		15
3757286	77231	366570	5367350	43/92	NORTH CUNI	SA	0.6	A/C	R	V	Ccy.		13
3757287	77231	366590	5367350	43/92	NORTH CUNI	SA	0.5	C	R	N	Ccy.		12

305138

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	Ag ppm GA140 1	Au ppm GG316 0.005	Cu ppm GA140 3	Cr ppm GA140 7	% GX401 0.01	% GX404 0.01	Cu ppm GA140 2	Fe % GA140 0.01	% GA140 0.1	% GA104 0.01	Mn ppm GA140 3	% GA140 0.1	% GA104 0.01	Ni ppm GA140 3	Pb ppm GA140 3	% GA104 0.01	Pd ppm GG316 0.005	Pt ppm GG316 0.05	Zn ppm GA140 2	Zn % GA104 0.01
3757239	77231	-1		4	108			15		8.5		269			34	17				90	
3757240	77231	-1		-3	48			43	4.98			244			17	14				79	
3757241	77231	-1		4	57			25	2.46			182			34	31				77	
3757242	77231	-1		-3	55			19	2.03			193			20	23				57	
3757243	77231	-1		-3	91			24	0.93			83			11	69				36	
3757244	77231	-1		6	101			26	1.82			110			19	41				58	
3757245	77231	-1		5	217			17	2.43			201			26	22				60	
3757246	77231	-1		7	146			35	2.56			174			28	33				80	
3757247	77231	-1		8	130			24	3.14			193			30	43				82	
3757248	77231	-1		3	76			39	1.39			72			25	73				86	
3757249	77231	-1		8	102			39	3.27			241			29	48				92	
3757250	77231	-1		4	69			37	3.43			181			16	41				81	
3757251	77231	-1		8	78			91	3.03			190			31	81				97	
3757252	77231	-1		15	102			95	4.78			323			39	52				151	
3757253	77231	-1		34	4308			445		6.8		346			200	151				273	
3757254	77231	-1		33	2803			96	4.53			345			252	170				351	
3757255	77231	-1		22	3955			768		8.9		510			373	98				140	
3757256	77231	-1		17	7000			78	2.44			278			73	114				142	
3757257	77231	-1		17	420			78	2.58			123			64	195				125	
3757258	77231	-1		5	1055			29	1.38			95			31	28				49	
3757259	77231	-1		8	820			71	2.2			172			56	27				66	
3757260	77231	-1		3	203			57		10.5		38			43	17				75	
3757261	77231	-1		-3	114			21	3.91			29			16	33				30	
3757262	77231	-1		-3	206			11	2.85			41			5	51				26	
3757263	77231	-1		23	134			41		6.5		324			69	103				146	
3757264	77231	-1		11	107			71	3.69			237			42	85				131	
3757265	77231	-1		8	92			34	3.33			182			52	114				249	
3757266	77231	-1		12	710			69	3.29			318			36	63				68	
3757267	77231	-1		12	272			34	2.09			192			108	11				69	
3757268	77231	-1		22	141			133	4			352			117	14				330	
3757269	77231	-1		56	1371			146	3.68			105			192	76				450	
3757270	77231	-1		37	4426			95	3.16			217			134	138				271	
3757271	77231	-1		16	319			200	3.32			63			75	134				674	
3757272	77231	-1		25	258			81	4.82			526			101	34				412	
3757273	77231	-1		29	118			103		7.6		629			88	31				266	
3757274	77231	-1		16	217			34	3.8			450			45	71				331	
3757275	77231	-1		23	280			62	3.83			574			49	108				528	
3757276	77231	-1		27	290			38		7.5		510			87	24				570	
3757277	77231	-1		24	306			39		7.2		352			83	217				209	
3757278	77231	-1		31	94			89	4.1			452			57	24				364	
3757279	77231	-1		24	241			78		8.2		578			62	217				338	
3757280	77231	-1		28	191			45		9.2		595			102	136				426	
3757281	77231	-1		10	196			26	2.36			296			45	19				81	
3757282	77231	-1		13	331			431	1.75			50			79	5				186	
3757283	77231	-1		-3	182			35		8		593			42	6				86	
3757284	77231	-1		33	312			56		7.5		717			89	6				121	
3757285	77231	-1		18	563			63	3.97			385			55	3				83	
3757286	77231	-1		31	305			34		8.1		612			89	5				130	
3757287	77231	-1		7	775			41	2.98			361			24	9				60	

305139

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL.	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 SI
3757288	77231	366610	5367350	43/92	NORTH CUNI	SA	0.5	C	R	G	Ccy.		8
3757289	77231	366630	5367350	43/92	NORTH CUNI	SA	0.4	C	R	G	Ccy.		15
3757290	77231	366650	5367350	43/92	NORTH CUNI	SA	0.9	C	R	G	Ccy.		8
3757291	77231	366670	5367350	43/92	NORTH CUNI	SA	0.5	B/C	R	O	Ccy.		8
3757292	77231	366690	5367350	43/92	NORTH CUNI	SA	0.6	C	R	N	Ccy.		5
3757293	77231	366710	5367350	43/92	NORTH CUNI	SA	0.6	C	R	N	Ccy.		7
3757294	77231	366730	5367350	43/92	NORTH CUNI	SA	0.6	C	R	N	Ccy.		5
3757295	77231	366750	5367350	43/92	NORTH CUNI	SA	0.6	C	R	N	Ccy.		15
3757296	77231	366770	5367350	43/92	NORTH CUNI	SA	0.6	C	R	N	Ccy.		13
3757297	77231	366790	5367350	43/92	NORTH CUNI	SA	0.6	C	R	N	Ccy.		10
3757298	77231	366810	5367350	43/92	NORTH CUNI	SA	0.6	C	R	N	Ccy.		75
3757299	77231	366840	5367350	43/92	NORTH CUNI	O/C	0.0	C	R	V	Igb	Igb w/ trace cpy & ?pent.	100
3757300	77231	366850	5367350	43/92	NORTH CUNI	O/C	0.0	C	R	V	Igb	Igb w/ trace cpy & ?pent.	25
3991653	77231	366320	5368000	43/92	NORTH CUNI	SA	0.6	C	R	V	Ccy.		7
3991654	77231	366340	5368000	43/92	NORTH CUNI	SA	0.6	C	R	V	Ccy.		9
3991655	77231	366415	5368000	43/92	NORTH CUNI	SA	0.6	C	R	V	Ccy.		10
3991656	77231	366150	5367950	43/92	NORTH CUNI	SA	0.4	C	R	V	Ccy w/ V Ssh R.F.s.		11
3991657	77231	366170	5367950	43/92	NORTH CUNI	SA	0.6	A-B	R	B	Cs		9
3991658	77231	366190	5367950	43/92	NORTH CUNI	SA	0.9	B	R	O	Ccy.	Minor Vq.	5
3991659	77231	366210	5367950	43/92	NORTH CUNI	SA	0.9	B	R	O	Ccy.	Minor Vq.	5
3991660	77231	366230	5367950	43/92	NORTH CUNI	SA	0.7	C	R	O	Ccy.		6
3991661	77231	366320	5367950	43/92	NORTH CUNI	SA	0.6	C	R	V	Ccy w/ V Ssh R.F.s.		8
3991662	77231	366340	5367950	43/92	NORTH CUNI	SA	0.6	C	R	V	Ccy w/ V Ssh R.F.s.		11
3991663	77231	366360	5367950	43/92	NORTH CUNI	SA	0.6	C	R	O/V	Ccy.		11
3991664	77231	366380	5367950	43/92	NORTH CUNI	SA	0.6	C	R	O/V	Ccy.		11
3991665	77231	366400	5367950	43/92	NORTH CUNI	SA	1.0	C	R	V	Ccy w/ V Ssh R.F.s.		7
3991666	77231	366430	5367950	43/92	NORTH CUNI	SA	1.0	C	R	V	Ccy w/ V Ssh R.F.s.		15
3991667	77231	366440	5367950	43/92	NORTH CUNI	SA	0.7	C	R	V	Ccy.	Relict Igb texture.	30
3991668	77231	366450	5367950	43/92	NORTH CUNI	SA	0.7	C	R	V	Ccy.	Relict Igb texture.	25
3991669	77231	366460	5367950	43/92	NORTH CUNI	SA	0.7	C	R	V	Ccy.	Relict Igb texture.	15
3991670	77231	366470	5367950	43/92	NORTH CUNI	SA	0.7	C	R	V	Ccy.	Relict Igb texture.	37
3991671	77231	366520	5367950	43/92	NORTH CUNI	SA	0.8	C	R	R	Ccy w/ R Ssh R.F.s.		7
3991672	77231	366540	5367950	43/92	NORTH CUNI	SA	0.7	C	R	V/R	Ccy.		10
3991673	77231	366560	5367950	43/92	NORTH CUNI	SA	0.9	C	R	DV	Ccy w/ V Ssh R.F.s.		11
3991674	77231	366570	5367950	43/92	NORTH CUNI	SA	0.9	C	R	DV	Ccy w/ V Ssh R.F.s.		7
3991675	77231	366590	5367950	43/92	NORTH CUNI	SA	0.9	C	R	DV	Ccy w/ V Ssh R.F.s.		7
3991676	77231	366610	5367950	43/92	NORTH CUNI	SA	0.9	C	R	DV	Ccy w/ V Ssh R.F.s.		13
3991677	77231	366630	5367950	43/92	NORTH CUNI	SA	0.9	C	R	DV	Ccy w/ V Ssh R.F.s.		15
3991678	77231	366650	5367950	43/92	NORTH CUNI	SA	0.7	C	R	O	Ccy.		10
3991679	77231	366670	5367950	43/92	NORTH CUNI	SA	0.7	C	R	O	Ccy.		8
3991680	77231	366690	5367950	43/92	NORTH CUNI	SA	0.7	C	R	O	Ccy.		9
3991681	77231	366710	5367950	43/92	NORTH CUNI	SA	0.7	C	R	O	Ccy.		6
3991682	77231	366730	5367950	43/92	NORTH CUNI	SA	0.7	C	R	O	Ccy.		12
3991683	77231	366750	5367950	43/92	NORTH CUNI	SA	0.7	C	R	O	Ccy.		10
3991684	77231	366770	5367950	43/92	NORTH CUNI	SA	0.7	C	R	O	Ccy.		10
3991685	77231	366790	5367950	43/92	NORTH CUNI	SA	0.7	C	R	O	Ccy.		11
3991686	77231	366810	5367950	43/92	NORTH CUNI	SA	0.7	B/C?	R	W	Cs		5
3991687	77231	366830	5367950	43/92	NORTH CUNI	SA	0.8	B/C?	R	O	Ccy.	Csp cover.	8
3991688	77231	366850	5367950	43/92	NORTH CUNI	SA	0.8	B/C?	R	O	Ccy.	Csp cover.	10

305140

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	Ag ppm GA140	Au ppm GG316 0.005	Co ppm GA140	Cr ppm GA140	% GX401 0.01	% GX404 0.01	Cu ppm GA140	Fe % GA140	% GA140	% GA104 0.01	Mn ppm GA140	% GA140	% GA104 0.01	Ni ppm GA140	Pb ppm GA140	% GA104 0.01	Pd ppm GG316 0.005	Pt ppm GG316 0.05	Zn ppm GA140	Zn % GA104 0.01
3757288	77231	-1		8	142			33	1.8			60			25	35				57	
3757289	77231	-1		32	244			29		6.9		793			83	17				122	
3757290	77231	-1		41	146			91		6.1		516			147	34				2803	
3757291	77231	-1		3	482			41		7.1		45			29	38				53	
3757292	77231	-1		4	454			87	2			112			27	64				143	
3757293	77231	-1		7	863			87		7.5		104			15	11				69	
3757294	77231	-1		5	754			26	2.53			56			10	19				49	
3757295	77231	-1		6	1663			29	4.78			121			16	15				185	
3757296	77231	-1		69	3759			78		8.5		264			146	21				281	
3757297	77231	-1		15	792			53	4.96			293			42	31				159	
3757298	77231	-1		49	2268			41		21.6		697			121	66				691	
3757299	77231	-1		18	13			55		9.6		525			4	9				60	
3757300	77231	-1		29	53			57		8.4		760			30	8				91	
3991653	77231	-1		17	196			83		5.8		117			232	107				433	
3991654	77231	-1		24	220			747		5.8		662			169	107				873	
3991655	77231	-1		54	92			105	4.56			166			99	92				316	
3991656	77231	-1		13	170			50		7.5		408			49	854				216	
3991657	77231	-1		3	112			13	3.97			107			9	9				45	
3991658	77231	-1		-3	165			56		7		87			16	26				71	
3991659	77231	-1		4	134			29	3.33			46			32	40				79	
3991660	77231	-1		6	184			70				81			41	53				182	
3991661	77231	-1		44	91			29		6.6		211			109	64				519	
3991662	77231	-1		56	116			29		7.1		545			152	54				540	
3991663	77231	-1		57	288			119		18.5		744			250	86				805	
3991664	77231	-1		9	188			25		5.6		85			28	38				96	
3991665	77231	-1		114	125			103	3.59			258			184	27				491	
3991666	77231	-1		117	121			64		7.6		670			272	48				564	
3991667	77231	-1		136	164			174		15.8		856			377	4				467	
3991668	77231	-1		116	531			917		15.1		1080			985	68				760	
3991669	77231	-1		151	191			127		9.6		662			442	78				1211	
3991670	77231	-1		98	420			116		22.1		4111			487	15				515	
3991671	77231	-1		21	50			186		6.3		111			66	333				192	
3991672	77231	2		28	72			248		11.6		766			233	1016				817	
3991673	77231	-1		56	507			431		6.9		642			1692	20				1594	
3991674	77231	-1		24	92			93	3.62			293			158	54				533	
3991675	77231	-1		12	153			48	3.97			521			70	21				141	
3991676	77231	-1		18	92			18	4.78			435			57	29				117	
3991677	77231	-1		5	71			21		7.1		370			49	17				130	
3991678	77231	-1		8	75			14		8.8		101			24	18				62	
3991679	77231	-1		4	84			26		7.5		65			21	8				42	
3991680	77231	-1		-3	55			47		8.9		38			23	9				44	
3991681	77231	-1		-3	96			9	4			82			16	11				39	
3991682	77231	-1		3	106			16		7.8		104			22	16				61	
3991683	77231	-1		4	98			15	4.39			66			20	46				39	
3991684	77231	-1		13	167			32		11.1		203			57	39				74	
3991685	77231	-1		11	153			42		10		203			55	61				71	
3991686	77231	-1		3	132			30	2.82			37			56	165				56	
3991687	77231	-1		-3	135			82		14		37			38	67				69	
3991688	77231	-1		-3	118			108		9.8		24			52	2653				50	

305141

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL.	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 SI
3991689	77231	366170	5367800	43/92	NORTH CUNI	SA	1.0	B	RT?	O	Ccy.	150E > 1m alluvium.	10
3991690	77231	366190	5367800	43/92	NORTH CUNI	SA	1.0	B	RT?	O	Ccy.		11
3991691	77231	366210	5367800	43/92	NORTH CUNI	SA	1.0	B	RT?	O	Ccy.		9
3991692	77231	366310	5367800	43/92	NORTH CUNI	SA	0.7	C	R	DV	Ccy w/ DV Ssh R.F.s.		15
3991693	77231	366330	5367800	43/92	NORTH CUNI	SA	0.7	C	R	DV	Ccy w/ DV Ssh R.F.s.		10
3991694	77231	366350	5367800	43/92	NORTH CUNI	SA	1.0	C	R	DV	Ccy w/ Sw R.F.s.		15
3991695	77231	366370	5367800	43/92	NORTH CUNI	SA	1.0	C	R	DV	Ccy w/ Sw R.F.s.		12
3991696	77231	366390	5367800	43/92	NORTH CUNI	SA	0.7	C	R	V	Ccy.	Contam. from G.W. shaft - V Ssh.	13
3991697	77231	366410	5367800	43/92	NORTH CUNI	SA	0.6	C	R	V	Ccy.		15
3991698	77231	366430	5367800	43/92	NORTH CUNI	SA	0.6	C	R	V	Ccy.		9
3991699	77231	366520	5367800	43/92	NORTH CUNI	SA	0.6	C	R	V	Ccy.		20
3991700	77231	366540	5367800	43/92	NORTH CUNI	SA	0.6	C	R	V	Ccy.		6
3991923	77231	365850	5367300	43/92	NORTH CUNI	SA	0.8	C	R	O	Ccy.		11
3991924	77231	365870	5367300	43/92	NORTH CUNI	SA	0.8	C	R	O	Ccy.		10
3991925	77231	365890	5367300	43/92	NORTH CUNI	SA	0.8	C	R	O	Ccy.		2
3991926	77231	365910	5367300	43/92	NORTH CUNI	SA	0.5	C	R/T?	O	Vq		19
3991927	77231	365930	5367300	43/92	NORTH CUNI	SA	0.5	C	R/T?	O	Vq		52
3991928	77231	365950	5367300	43/92	NORTH CUNI	SA	0.6	C	R	O	Ccy.		12
3991929	77231	365970	5367300	43/92	NORTH CUNI	SA	0.6	C	R	O	Ccy.	Prominent Vqtz.	12
3991930	77231	365990	5367300	43/92	NORTH CUNI	SA	0.6	C	R	O	Ccy.		20
3991931	77231	366010	5367300	43/92	NORTH CUNI	SA	0.6	C	R	N	Ccy.		15
3991932	77231	366030	5367300	43/92	NORTH CUNI	SA	0.6	C	R	N	Ccy.		17
3991933	77231	366050	5367300	43/92	NORTH CUNI	SA	0.8	C	R	O	Ccy.		8
3991934	77231	366070	5367300	43/92	NORTH CUNI	SA	0.8	C	R	O	Ccy.		12
3991935	77231	366090	5367300	43/92	NORTH CUNI	SA	0.8	C	R	O	Ccy.		14
3991936	77231	366110	5367300	43/92	NORTH CUNI	SA	0.9	C	R	M O/W	Ccy w/ Relict lgb texture		14
3991937	77231	366100	5367300	43/92	NORTH CUNI	SA	0.9	C	R	O	Ccy.		14
3991938	77231	366120	5367300	43/92	NORTH CUNI	SA	0.9	C	R	M O/W	Ccy w/ Relict lgb texture		16
3991939	77231	366130	5367300	43/92	NORTH CUNI	SA	0.7	C	R	O	Ccy.		15
3991940	77231	366140	5367300	43/92	NORTH CUNI	SA	0.7	C	R	R	Ccy.		12
3991941	77231	366160	5367300	43/92	NORTH CUNI	SA	0.7	C	R	O	Ccy.		13
3991942	77231	366180	5367300	43/92	NORTH CUNI	SA	0.8	C	R	M O/W	Ccy.		12
3991943	77231	366200	5367300	43/92	NORTH CUNI	SA	1.0	B/C	R	W	Ccy Leached w/ Ssh		11
3991944	77231	366220	5367300	43/92	NORTH CUNI	SA	1.0	C	R	V	Ccy.		23
3991945	77231	366240	5367300	43/92	NORTH CUNI	SA	0.9	C	R	V	Ccy.		10
3991946	77231	366250	5367300	43/92	NORTH CUNI	SA	0.7	C	R	V	Ccy.	Track @ 6260E.	14
3991947	77231	366270	5367300	43/92	NORTH CUNI	SA	0.7	C	R	V	Ccy.		13
3991948	77231	366280	5367300	43/92	NORTH CUNI	SA	1.0	B/C	R	W	Ccy w/ leached lgb/Sw		6
3991949	77231	366290	5367300	43/92	NORTH CUNI	SA	1.0	C	R	G	Ccy.		14
3991950	77231	366300	5367300	43/92	NORTH CUNI	SA	1.0	C	R	G	Ccy.		18
3991951	77231	366310	5367300	43/92	NORTH CUNI	SA	0.7	C	R	V	Ccy w/ Sw	Gravel cover > 1m @ 6320E.	20
3991952	77231	366320	5367300	43/92	NORTH CUNI	SA	1.0	C	R	G	Ccy.		8
3991953	77231	366340	5367300	43/92	NORTH CUNI	SA	1.0	C	R	M G/W	Ccy w/ lgb texture		24
3991954	77231	366350	5367300	43/92	NORTH CUNI	SA	0.6	C	R	G	Ccy w/ Ssh texture		13
3991955	77231	366360	5367300	43/92	NORTH CUNI	SA	0.7	C	R	G	Ccy.		17
3991956	77231	366370	5367300	43/92	NORTH CUNI	SA	1.0	C	R	R	Ccy.		21
3991957	77231	366380	5367300	43/92	NORTH CUNI	SA	0.6	C	R	G	Ccy.		16
3991958	77231	366390	5367300	43/92	NORTH CUNI	SA	0.6	C	R	G	Ccy.		10
3991959	77231	366400	5367300	43/92	NORTH CUNI	SA	0.6	C	R	R	Ccy.		13

305142

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	Ag ppm GA140	Au ppm GG316 0.005	Co ppm GA140	Cr ppm GA140	% GX401 0.01	% GX404 0.01	Cu ppm GA140	Fe % GA140	% GA140	% GA104 0.01	Mn ppm GA140	% GA140	% GA104 0.01	Ni ppm GA140	Pb ppm GA140	% GA104 0.01	Pd ppm GG316 0.005	Pt ppm GG316 0.05	Zn ppm GA140	Zn % GA104 0.01
3991689	77231	-1		16	165			67		8.1		164			78	122				201	
3991690	77231	-1		11	166			52		9.7		155			41	165				135	
3991691	77231	-1		16	163			75	4.74			180			123	131				217	
3991692	77231	-1		77	103			79		7.9		251			709	42				1067	
3991693	77231	-1		22	213			79	2			180			257	424				1061	
3991694	77231	-1		30	177			33		10.6		582			261	8				623	
3991695	77231	-1		6	201			200		7.1		235			95	30				72	
3991696	77231	-1		28	137			1124		10.4		492			490	20				526	
3991697	77231	-1		16	208			31		10.8		500			68	18				83	
3991698	77231	-1		13	245			27		11.7		513			59	16				71	
3991699	77231	-1		60	241			46		13.3		1255			328	313				510	
3991700	77231	-1		7	61			37	4.16			169			31	30				63	
3991923	77231	-1		7	338			66		13.7		53			35	22				48	
3991924	77231	-1		4	265			45		10.4		32			31	18				40	
3991925	77231	-1		3	232			43		7		38			37	24				45	
3991926	77231	-1		-3	56			11	1.55			49			7	9				15	
3991927	77231	-1		3	119			21		6.5		54			6	3				23	
3991928	77231	-1		4	173			113		16.9		40			27	3				50	
3991929	77231	-1		3	169			37		9.4		32			29	8				29	
3991930	77231	-1		-3	110			24		7.4		31			12	22				25	
3991931	77231	-1		7	53			25	4.98			206			50	67				53	
3991932	77231	-1		98	301			109		9.8		760			161	71				880	
3991933	77231	-1		6	219			52		13.1		41			28	153				40	
3991934	77231	-1		5	205			37		9.1		92			20	27				39	
3991935	77231	-1		7	170			56		20.7		82			26	25				59	
3991936	77231	-1		4	202			47	4.96			22			41	36				27	
3991937	77231	-1		3	179			95		17.8		122			35	26				40	
3991938	77231	-1		4	407			95		20.5		24			35	48				64	
3991939	77231	-1		5	318			125		26.5		48			30	72				83	
3991940	77231	-1		5	174			96		17		49			37	156				65	
3991941	77231	-1		5	218			92		12.3		33			65	221				132	
3991942	77231	-1		-3	52			136		7.2		34			47	29				31	
3991943	77231	-1		-3	45			56	0.78			42			47	24				26	
3991944	77231	-1		22	85			34		11.1		281			62	28				110	
3991945	77231	-1		11	139			96		13.2		421			66	7				72	
3991946	77231	-1		3	106			32		7.6		117			18	4				39	
3991947	77231	-1		8	88			49		7.5		262			62	-3				63	
3991948	77231	-1		6	274			56	1.69			35			145	13				39	
3991949	77231	-1		16	119			73	2.7			621			69	15				113	
3991950	77231	-1		15	120			41		7.9		763			96	22				135	
3991951	77231	-1		23	216			52		7.6		526			96	144				137	
3991952	77231	-1		10	87			48	3.04			198			51	6				63	
3991953	77231	-1		49	248			147		8.6		1022			276	-3				145	
3991954	77231	-1		5	49			38	1.25			48			54	12				36	
3991955	77231	-1		6	34			60	3.62			194			48	19				81	
3991956	77231	-1		22	66			50	4.95			214			71	-3				139	
3991957	77231	-1		26	140			70	4.9			288			75	-3				256	
3991958	77231	-1		3	73			32	0.98			35			50	11				37	
3991959	77231	-1		6	53			133	3.12			64			91	16				65	

305143

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EI.	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 SI
3991960	77231	366420	5367300	43/92	NORTH CUNI	SA	1.0	C	R	G	Ccy.		13
3991961	77231	366440	5367300	43/92	NORTH CUNI	SA	1.0	C	R	G	Ccy.		10
3991962	77231	366460	5367300	43/92	NORTH CUNI	SA	0.5	C	R	N	Ccy.		19
3991963	77231	366480	5367300	43/92	NORTH CUNI	SA	0.6	C	R	G	Ccy.		8
3991964	77231	366500	5367300	43/92	NORTH CUNI	SA	0.5	C	R	N	Ccy.		18
3991965	77231	366520	5367300	43/92	NORTH CUNI	SA	0.5	C	R	V	Ccy.		22
3991966	77231	366540	5367300	43/92	NORTH CUNI	SA	0.5	C	R	V	Ccy.		7
3991967	77231	366850	5367300	43/92	NORTH CUNI	SA	1.5	B/C	R	O	Gritty Ccy w/Ssh R.F.s.		16
3991968	77231	366825	5367300	43/92	NORTH CUNI	SA	1.5	B/C	R	O	Gritty Ccy w/Ssh R.F.s.		155
3991969	77231	366800	5367300	43/92	NORTH CUNI	SA	1.5	B/C	R	O	Gritty Ccy w/Ssh R.F.s.		14
3991970	77231	366775	5367300	43/92	NORTH CUNI	SA	0.5	C	R	G	Ccy.		12
3991971	77231	366750	5367300	43/92	NORTH CUNI	SA	0.6	C	R	N	Ccy.		18
3991972	77231	366700	5367300	43/92	NORTH CUNI	SA	0.8	C	R	O	Ccy.		17
3991973	77231	366675	5367300	43/92	NORTH CUNI	SA	0.9	C	R	M O/W	Ccy.		11
3991974	77231	366650	5367300	43/92	NORTH CUNI	SA	0.6	C	R	G	Ccy.		12
3991975	77231	366625	5367300	43/92	NORTH CUNI	SA	0.6	C	R	G	Ccy.		11
3991976	77231	366600	5367300	43/92	NORTH CUNI	SA	0.4	C	R	G	Ccy.		16
3991977	77231	366580	5367300	43/92	NORTH CUNI	SA	0.5	C	R	N	Ccy.		12
3991978	77231	366560	5367300	43/92	NORTH CUNI	SA	0.5	C	R	N	Ccy.		18
3991979	77231	366200	5367300	43/92	NORTH CUNI	SA	1.0	C	R	V	Ccy.		17
3991980	77231	366220	5367300	43/92	NORTH CUNI	SA	1.0	C	R	R	Ccy.		16
3991981	77231	366230	5367300	43/92	NORTH CUNI	SA	1.0	C	R	R	Ccy.	Track @ 62401E.	19
3991982	77231	366250	5367300	43/92	NORTH CUNI	SA	1.0	C	R	O	Ccy.		15
3991983	77231	366270	5367300	43/92	NORTH CUNI	SA	1.0	C	R	N	Ccy.		10
3991984	77231	366290	5367300	43/92	NORTH CUNI	SA	0.8	C	R	M G/W	F.sand w/ relict lgb texture.		26
3991985	77231	366300	5367300	43/92	NORTH CUNI	SA	1.0	C	R	R	Ccy.		4
3991986	77231	366310	5367300	43/92	NORTH CUNI	SA	1.0	C	R	N	Ccy.		15
3991987	77231	366320	5367300	43/92	NORTH CUNI	SA	1.0	C	R	V	F.sand w/ relict lgb texture.		18
3991988	77231	366330	5367300	43/92	NORTH CUNI	SA	0.8	C	R	R	Ccy.		18
3991989	77231	366340	5367300	43/92	NORTH CUNI	SA	0.8	C	R	R	Ccy.		11
3991990	77231	366350	5367300	43/92	NORTH CUNI	SA	1.0	C	R	G/N	Ccy.		6
3991991	77231	366360	5367300	43/92	NORTH CUNI	SA	0.8	C	R	V	Ccy.		1
3991992	77231	366370	5367300	43/92	NORTH CUNI	SA	0.8	C	R	V	Ccy.		14
3991993	77231	366380	5367300	43/92	NORTH CUNI	SA	0.8	C	R	V	Ccy.		12
3991994	77231	366390	5367300	43/92	NORTH CUNI	SA	0.8	C	R	V	Ccy.		11
3991995	77231	366400	5367300	43/92	NORTH CUNI	SA	0.8	C	R	V	Ccy.		10
3991996	77231	366200	5367450	43/92	NORTH CUNI	SA	0.7	B/C	R	O	Gritty Ccy		12
3991997	77231	366220	5367450	43/92	NORTH CUNI	SA	1.0	C	R	O	Ccy.		20
3991998	77231	366240	5367450	43/92	NORTH CUNI	SA	0.7	C	R	R	Ccy.		15
3991999	77231	366255	5367450	43/92	NORTH CUNI	SA	0.8	B/C	R	O/W	Ccy.		9
3992000	77231	366270	5367450	43/92	NORTH CUNI	SA	0.9	C	R	O	Ccy.		10
4143201	77231	366280	5367450	43/92	NORTH CUNI	SA	1.0	C	R	V	Ccy.		17
4143202	77231	366290	5367450	43/92	NORTH CUNI	SA	0.8	C	R	O	Ccy.		20
4143203	77231	366300	5367450	43/92	NORTH CUNI	SA	0.9	C	R	G	Ccy.		19
4143204	77231	366310	5367450	43/92	NORTH CUNI	SA	0.8	C	R	R	Ccy.		13
4143205	77231	366320	5367450	43/92	NORTH CUNI	SA	0.8	C	R	G	Ccy.		15
4143206	77231	366330	5367450	43/92	NORTH CUNI	SA	0.8	C	R	K	Ccy.		10
4143207	77231	366340	5367450	43/92	NORTH CUNI	SA		C	R	V	Ccy.		15
4143208	77231	366350	5367450	43/92	NORTH CUNI	SA	0.7	C	R	V	Ccy.		16

F.g ? lgb R.F.s.
Minor V.qtz

305144

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO	DPO	Ag ppm GA140	Au ppm GG316 0.005	Co ppm GA140	Cr ppm GA140	% GX401 0.01	% GX404 0.01	Cu ppm GA140	Fe % GA140	% GA140	% GA104	Mn ppm GA140	% GA140	% GA104	Ni ppm GA140	Pb ppm GA140	% GA104	Pd ppm GG316 0.005	Pt ppm GG316 0.05	Zn ppm GA140	Zn % GA104
		1		3	7	0.01	0.01	2	0.01	0.1	0.01	3	0.1	0.01	3	3	0.01			2	0.01
3991960	77231	-1		4	52			38	1.2			39			35	13				32	
3991961	77231	-1		11	472			30	2.69			164			42	4				54	
3991962	77231	-1		52	212			100		10.9		404			114	-3				229	
3991963	77231	-1		17	199			38		6.1		387			69	-3				87	
3991964	77231	-1		29	78			140	4.89			255			104	15				254	
3991965	77231	-1		35	258			62		8.7		593			97	-3				132	
3991966	77231	-1		24	257			53		5.2		452			74	-3				98	
3991967	77231	-1		4	133			63		6.4		85			79	77				41	
3991968	77231	-1		3	412			66		15.7		102			31	60				69	
3991969	77231	-1		18	62			90	4.57			685			45	-3				47	
3991970	77231	-1		7	68			42	1.89			60			26	209				35	
3991971	77231	-1		29	352			30		8.8		477			77	15				330	
3991972	77231	-1		-3	205			92		19.7		42			24	599				121	
3991973	77231	-1		3	68			44	4.2			36			33	13				24	
3991974	77231	-1		5	29			21	1.05			67			53	11				34	
3991975	77231	-1		16	454			76	3.14			506			55	13				129	
3991976	77231	-1		15	454			36	3.38			326			47	10				69	
3991977	77231	-1		5	282			22	1.72			132			12	17				45	
3991978	77231	-1		24	277			36		6.7		599			68	11				105	
3991979	77231	-1		14	81			41		6.8		238			56	68				92	
3991980	77231	-1		8	39			21	4.77			103			30	73				55	
3991981	77231	-1		4	96			78		12.2		58			37	78				79	
3991982	77231	-1		3	67			98		8		73			13	2605				86	
3991983	77231	-1		-3	47			38	1.29			84			28	83				44	
3991984	77231	2	0.078	135	277			4799		9.9		739			6213	6	0.212	0.1		78	
3991985	77231	-1		14	44			27	2.53			338			56	14				64	
3991986	77231	-1		40	197			81		7.3		593			108	20				359	
3991987	77231	-1		17	247			30		6		694			81	30				129	
3991988	77231	-1		16	122			49		6.4		256			69	27				106	
3991989	77231	-1		4	40			20	2.2			72			31	7				34	
3991990	77231	-1		9	55			103	1.73			94			61	-3				42	
3991991	77231	-1		6	216			16	1.66			104			28	7				42	
3991992	77231	-1		7	119			22	2.86			139			59	4				105	
3991993	77231	-1		10	166			58	3.31			235			39	8				85	
3991994	77231	-1		9	131			113	2.13			194			76	8				52	
3991995	77231	-1		13	441			23	3.26			204			39	3				60	
3991996	77231	-1		10	159			36		7.2		184			37	923				72	
3991997	77231	-1		-3	298			95		25.3		26			17	85				67	
3991998	77231	-1		7	231			37		7.6		93			40	328				102	
3991999	77231	-1		-3	179			30	3.29			31			15	360				33	
3992000	77231	-1		-3	220			54		9.1		105			39	41				38	
4143201	77231	-1		20	139			43		11.2		1091			104	37				64	
4143202	77231	-1		36	801			182		10.8		640			345	56				68	
4143203	77231	-1		19	286			77		7.1		809			136	36				171	
4143204	77231	-1		12	104			20	2.53			382			44	16				67	
4143205	77231	-1		25	213			37		7.5		691			93	15				163	
4143206	77231	-1		-3	71			17	0.81			40			11	22				26	
4143207	77231	-1		51	638			79		7.7		795			293	4				297	
4143208	77231	-1		18	143			44	5			368			56	-3				96	

305145

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL.	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10 ⁻⁵ SI
4143209	77231	366360	5367450	43/92	NORTH CUNI	SA	0.8	C	R	V	Ccy.		14
4143210	77231	366370	5367450	43/92	NORTH CUNI	SA	0.5	C	R	G	Ccy.		9
4143211	77231	366380	5367450	43/92	NORTH CUNI	SA	0.5	C	R	G	Ccy.		17
4143212	77231	366390	5367450	43/92	NORTH CUNI	SA	0.6	C	R	V	Ccy.	Adjacent MF05 collar.	8
4143213	77231	366400	5367450	43/92	NORTH CUNI	SA	0.6	C	R	V	Ccy.		9
4143214	77231	366200	5367550	43/92	NORTH CUNI	SA	0.8	C	R	R	Ccy w/ R Ssh R.F.s.		13
4143215	77231	366210	5367550	43/92	NORTH CUNI	SA	0.9	C	R	G	Ccy.		20
4143216	77231	366220	5367550	43/92	NORTH CUNI	SA	0.9	C	R	G	Ccy.		14
4143217	77231	366230	5367550	43/92	NORTH CUNI	SA	0.9	C	R	G	Ccy.		16
4143218	77231	366240	5367550	43/92	NORTH CUNI	SA	0.8	C	R	V	Ccy w/ Igb R.F.s.		15
4143219	77231	366250	5367550	43/92	NORTH CUNI	SA	0.8	C	R	G	Ccy w/ Ssh R.F.s.		18
4143220	77231	366260	5367550	43/92	NORTH CUNI	SA	0.8	C	R	G	Ccy w/ Ssh R.F.s.		11
4143221	77231	366270	5367550	43/92	NORTH CUNI	SA	0.8	C	R	G	Ccy.	Track @ 6272-79E.	20
4143222	77231	366320	5367550	43/92	NORTH CUNI	SA	0.4	C	R	G	Ccy.		24
4143223	77231	366330	5367550	43/92	NORTH CUNI	SA	0.4	C	R	G	Ccy.		20
4143224	77231	366340	5367550	43/92	NORTH CUNI	SA	0.4	C	R	G	Ccy.		13
4143225	77231	366350	5367550	43/92	NORTH CUNI	SA	0.4	C	R	G	Ccy w/G Ssh R.F.s.		10
4143226	77231	366360	5367550	43/92	NORTH CUNI	SA	0.4	C	R	G	Ccy w/G Ssh R.F.s.		15
4143227	77231	366370	5367550	43/92	NORTH CUNI	SA	0.6	C	R	M/WN	Ccy w/ Ssh R.F.s.		10
4143228	77231	366380	5367550	43/92	NORTH CUNI	SA	0.6	C	R	M/WN	Ccy w/ Ssh R.F.s.		9
4143229	77231	366390	5367550	43/92	NORTH CUNI	SA	0.6	C	R	G	Ccy w/ G R.F.s.		16
4143230	77231	366400	5367550	43/92	NORTH CUNI	SA	0.6	C	R	G	Ccy w/ G R.F.s.		16
4143231	77231	366200	5367650	43/92	NORTH CUNI	SA	0.7	C	R	G	Ccy w/ ?Sw/Igb R.F.s.		13
4143232	77231	366210	5367650	43/92	NORTH CUNI	SA	0.7	C	R	G	Ccy w/ ?Sw/Igb R.F.s.		18
4143233	77231	366220	5367650	43/92	NORTH CUNI	SA	0.8	C	R	G	Ccy w/ G Ssh R.F.s.		20
4143234	77231	366230	5367650	43/92	NORTH CUNI	SA	0.5	C	R	M/WV	Ccy w/ Igb R.F.s.		19
4143235	77231	366240	5367650	43/92	NORTH CUNI	SA	0.6	C	R	B/V	Ccy.		13
4143236	77231	366250	5367650	43/92	NORTH CUNI	SA	0.9	C	R	R	Ccy w/ R Ssh R.F.s.		13
4143237	77231	366260	5367650	43/92	NORTH CUNI	SA	0.9	C	R	R	Ccy w/ R Ssh R.F.s.		15
4143238	77231	366270	5367650	43/92	NORTH CUNI	SA	0.8	C	R	O	Ccy.		22
4143239	77231	366280	5367650	43/92	NORTH CUNI	SA	0.8	C	R	O	Ccy.		12
4143240	77231	366290	5367650	43/92	NORTH CUNI	SA	0.8	C	R	M/OY	Ccy w/ Ssh R.F.s.		15
4143241	77231	366300	5367650	43/92	NORTH CUNI	SA	0.9	b	R	M/OV	Ccy w/ Ssh R.F.s.		15
4143242	77231	366310	5367650	43/92	NORTH CUNI	SA	0.7	A/B	R	B	Silt	Adjacent trench.	70
4143243	77231	366320	5367650	43/92	NORTH CUNI	SA	0.7	B?	R	O	Ccy.	Track @ 6323-28	20
4143244	77231	366330	5367650	43/92	NORTH CUNI	SA	0.8	C	R	M/OV	Ccy.	Minor Vq	17
4143245	77231	366340	5367650	43/92	NORTH CUNI	SA	0.5	B	R	B	Ccy.		16
4143246	77231	366350	5367650	43/92	NORTH CUNI	SA	0.9	B	R	K	Ccy w/ Ssh R.F.s.		14
4143247	77231	366360	5367650	43/92	NORTH CUNI	SA	0.9	B	R	M/OV	Ccy w/ W Ssh R.F.s.		16
4143248	77231	366370	5367650	43/92	NORTH CUNI	SA		B	R	M/OR	Ccy w/ R Ssh R.F.s.		17
4143249	77231	366380	5367650	43/92	NORTH CUNI	SA	0.9	B	R	O	Ccy.		12
4143250	77231	366390	5367650	43/92	NORTH CUNI	SA	0.8	C	R	M/OV	Ccy w/ Ssh R.F.s.		13
4143251	77231	366400	5367650	43/92	NORTH CUNI	SA	0.5	B	R	M/VO	Ccy.		10
4143252	77231	366400	5367750	43/92	NORTH CUNI	SA	0.4	C	R	G	Ccy w/ G Ssh R.F.s.		15
4143253	77231	366390	5367750	43/92	NORTH CUNI	SA	0.6	B/C	R	W	Ccy w/ W R.F.s.		7
4143254	77231	366370	5367750	43/92	NORTH CUNI	SA	0.5	C	R	G	G Ssh R.F.s.		20
4143255	77231	366360	5367750	43/92	NORTH CUNI	SA	0.5	C	R	G	G Ssh R.F.s.		15
4143256	77231	366350	5367750	43/92	NORTH CUNI	SA	0.5	C	R	G	G Ssh R.F.s.		14
4143257	77231	366340	5367750	43/92	NORTH CUNI	SA	0.5	C	R	G	G Ssh R.F.s.		9

305146

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO	DPO	Ag	Au	Co	Cr			Cu	Fe			Mn			Ni	Pb		Pd	Pt	Zn	Zn
		ppm	ppm	ppm	ppm	%	%	ppm	%	%	%	ppm	%	%	ppm	ppm	%	ppm	ppm	ppm	%
		GA140	GG316	GA140	GA140	GX401	GX404	GA140	GA140	GA140	GA104	GA140	GA140	GA104	GA140	GA140	GA104	GG316	GG316	GA140	GA104
		1	0.005	3	7	0.01	0.01	2	0.01	0.1	0.01	3	0.1	0.01	3	3	0.01	0.005	0.05	2	0.01
4143209	77231	-1		50	163			25		7.1		375			74	4				204	
4143210	77231	-1		7	173			44	2.34			172			19	12				49	
4143211	77231	-1		8	159			28	4.71			278			35	10				75	
4143212	77231	-1		3	151			20	1.53			88			12	13				30	
4143213	77231	-1		5	207			22	2.51			114			17	9				48	
4143214	77231	-1		177	240			107	4.04			322			289	51				1572	
4143215	77231	-1		116	231			101		8.7		580			246	26				1992	
4143216	77231	-1		63	243			99	3.82			383			149	1342				1259	
4143217	77231	-1		57	381			79		7.4		691			131	74				2652	
4143218	77231	-1		108	918			119		6.8		711			560	137				1833	
4143219	77231	-1		108	590			82		7.6		385			223	35				893	
4143220	77231	-1		21	4603			25	2.19			175			54	60				812	
4143221	77231	-1		122	7000			42		5.9		296			309	57				673	
4143222	77231	-1		36	650			55		9.2		647			163	-3				256	
4143223	77231	-1		67	342			61		8.5		598			133	25				338	
4143224	77231	-1		47	435			79	4.96			549			129	-3				418	
4143225	77231	-1		29	563			207	2.31			82			101	220				438	
4143226	77231	-1		22	720			71		6.4		326			84	35				303	
4143227	77231	-1		16	131			112	1.28			42			61	94				96	
4143228	77231	-1		15	385			161	1.31			64			137	323				78	
4143229	77231	-1		43	426			66		8.2		371			85	79				205	
4143230	77231	-1		16	612			23	3.71			223			52	49				110	
4143231	77231	-1		24	183			58	4.56			295			95	13				254	
4143232	77231	-1		68	781			194		8.5		1001			566	9				883	
4143233	77231	-1		116	168			217		6.7		514			633	84				900	
4143234	77231	-1		104	690			285		9.2		1158			699	38				766	
4143235	77231	-1		12	257			61	3.16			282			75	93				95	
4143236	77231	2		7	216			140		7.9		85			145	289				150	
4143237	77231	2		8	137			72	4.33			144			43	150				64	
4143238	77231	-1		5	289			129		16.5		82			69	96				113	
4143239	77231	-1		5	496			130		12.3		62			106	133				90	
4143240	77231	-1		4	220			122		10.1		49			78	92				63	
4143241	77231	-1		5	196			143		6.8		91			91	48				44	
4143242	77231	-1		4	234			716		10.4		36			88	43				43	
4143243	77231	-1		3	772			648		11.3		60			463	29				50	
4143244	77231	-1		3	173			39	4.43			50			57	21				37	
4143245	77231	-1		11	182			35		10.6		215			45	14				73	
4143246	77231	-1		3	164			112		10.4		59			55	31				44	
4143247	77231	-1		-3	247			116		12.1		36			12	144				87	
4143248	77231	-1		4	221			66		14		79			46	18				62	
4143249	77231	-1		3	185			42		6.9		40			37	13				43	
4143250	77231	-1		-3	104			75		9		27			17	39				23	
4143251	77231	-1		-3	104			38	3.67			33			17	41				1121	
4143252	77231	-1		24	223			41		8.6		867			82	9				120	
4143253	77231	-1		4	171			37	0.78			62			21	9				64	
4143254	77231	-1		24	240			55	3.84			322			87	37				340	
4143255	77231	-1		14	273			50	4.75			542			75	49				127	
4143256	77231	-1		14	194			93	3.17			425			49	29				704	
4143257	77231	-1		8	109			43	1.98			230			103	44				117	

305147

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO	DPO	EAST	NORTH	EL	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 SI
4143258	77231	366330	5367750	43/92	NORTH CUNI	SA	0.5	B/A	R	B/O	Ccy.		13
4143259	77231	366320	5367750	43/92	NORTH CUNI	SA		C	R	V	Ccy.	Minor Vq.	25
4143260	77231	366310	5367750	43/92	NORTH CUNI	SA		C	R	V	Ccy.		20
4143261	77231	366300	5367750	43/92	NORTH CUNI	SA	0.7	C	R	B/V	Ccy.		14
4143262	77231	366290	5367750	43/92	NORTH CUNI	SA	0.7	C	R	B/V	Ccy.		25
4143263	77231	366280	5367750	43/92	NORTH CUNI	SA	0.6	B/C	R	M/OV	Ccy.	Minor Vq.	15
4143264	77231	366270	5367750	43/92	NORTH CUNI	SA	0.6	B/C	R	M/OV	Ccy.		14
4143265	77231	366260	5367750	43/92	NORTH CUNI	SA	0.6	C	R	V	Ccy w/ IgB? R.F.s.		15
4143266	77231	366240	5367750	43/92	NORTH CUNI	SA	0.5	B	R	OV	Gritty Ccy		20
4143267	77231	366230	5367750	43/92	NORTH CUNI	SA	0.5	C	R	DV	Ccy w/ ?R F.s.		23
4143268	77231	366220	5367750	43/92	NORTH CUNI	SA	0.5	C	R	DV	Ccy w/ ?R F.s.		20
4143269	77231	366210	5367750	43/92	NORTH CUNI	SA	0.5	A/C	R	B	Ccy w/ minor Vq		18
4143270	77231	366200	5367750	43/92	NORTH CUNI	SA	0.5	A/C	R	B	Ccy w/ minor Vq		15
4143271	77231	366310	5367900	43/92	NORTH CUNI	SA	0.6	C	R	N	Ccy w/ N Ssh R.F.s.		12
4143272	77231	366350	5367900	43/92	NORTH CUNI	SA	0.2	A/C	R	B	Silt w/ Ironstone		200
4143273	77231	366370	5367900	43/92	NORTH CUNI	SA	0.4	C	R	DV	Ccy.		24
4143274	77231	366390	5367900	43/92	NORTH CUNI	SA	0.6	C	R	DP	Ccy.		25
4143275	77231	366410	5367900	43/92	NORTH CUNI	SA	0.5	C	R	DV	Ccy w/ Ssh R.F.s.		20
4143276	77231	366430	5367900	43/92	NORTH CUNI	SA	0.5	C	R	DV	Ccy w/ Ssh R.F.s.		18
4143277	77231	366450	5367900	43/92	NORTH CUNI	SA	0.5	C	R	DV	Ccy w/ Ssh R.F.s.		17
4143278	77231	366470	5367900	43/92	NORTH CUNI	SA	0.5	C	R	DV	Ccy w/ Ssh R.F.s.		13
4143279	77231	366510	5367900	43/92	NORTH CUNI	SA	0.5	C	R	DV	Ccy w/ Ssh R.F.s.		14
4143280	77231	366530	5367900	43/92	NORTH CUNI	SA	0.5	B	R	M/O	Ccy.		12
4143281	77231	366550	5367900	43/92	NORTH CUNI	SA	0.5	C	R	M/O	Ccy.		9
4143282	77231	366125	5368000	43/92	NORTH CUNI	SA	0.6	C	R	G	Sand w/ Sw R.F.s.		13
4143283	77231	366100	5368000	43/92	NORTH CUNI	SA	0.6	C	R	G	Sand w/ Sw R.F.s.		16
4143284	77231	366075	5368000	43/92	NORTH CUNI	SA	0.6	B	R	M/O	Ccy.		15
4143285	77231	366050	5368000	43/92	NORTH CUNI	SA	0.6	C	R	M/O	Ccy.		25
4143286	77231	366000	5368000	43/92	NORTH CUNI	SA	0.5	B	R	M/O	Ccy.	Track @ 6010E	20
4143287	77231	365975	5368000	43/92	NORTH CUNI	SA	0.5	B	R	M/O	Ccy.		16
4143288	77231	365950	5368000	43/92	NORTH CUNI	SA	0.5	B	R	M/O	Ccy.		24
4143289	77231	365925	5368000	43/92	NORTH CUNI	SA	0.5	B	R	M/O	Ccy.		15
4143290	77231	365900	5368000	43/92	NORTH CUNI	SA	0.5	B	R	M/O	Ccy w/ Ironstone R.F.s.		25
4143291	77231	365875	5368000	43/92	NORTH CUNI	SA	0.7	B	R	O	Ccy.		14
4143292	77231	365850	5368000	43/92	NORTH CUNI	SA	0.7	B	R	O	Ccy.		15
4143293	77231	365825	5368000	43/92	NORTH CUNI	SA	0.7	B	R	O	Ccy.		13
4143294	77231	365800	5368000	43/92	NORTH CUNI	SA	0.8	C	R	R/O	Ccy nw/ R Ssh R.F.s.		11
4143295	77231	365750	5368000	43/92	NORTH CUNI	SA	0.5	B	R	V/O	Ccy.		15
4143296	77231	365725	5368000	43/92	NORTH CUNI	SA	0.5	B	R	V/O	Ccy.		10
4143297	77231	366800	5366200	43/92	VAUDEAU	SA	0.4	C	R	G	Ccy.		10
4143298	77231	366775	5366200	43/92	VAUDEAU	SA	0.4	C	R	G	Ccy.		12
4143299	77231	366750	5366200	43/92	VAUDEAU	SA	0.5	C	R	G	Ccy w/ G Ssh R.F.s.		14
4143300	77231	366725	5366200	43/92	VAUDEAU	SA	0.6	C	R	V	Ccy.		18
4143301	77231	366700	5366200	43/92	VAUDEAU	SA	0.6	C	R	V	Ccy w/ Ssh R.F.s.		18
4143302	77231	366675	5366200	43/92	VAUDEAU	SA	0.6	B?	R	O/B	Ccy.		13
4143303	77231	366650	5366200	43/92	VAUDEAU	SA	1.0	C	R	V	Ccy.		25
4143304	77231	366625	5366200	43/92	VAUDEAU	SA	1.0	C	R	O/V	Ccy.		9
4143305	77231	366600	5366200	43/92	VAUDEAU	SA	0.9	B/C	R	O	Ccy.		19
4143306	77231	366575	5366200	43/92	VAUDEAU	SA	0.8	B/C	R	O/V	Ccy.		14

305148

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	Ag ppm GA140	Au ppm GG316 0.005	Co ppm GA140	Cr ppm GA140	% GX401 0.01	% GX404 0.01	Cu ppm GA140	Fe % GA140 0.01	% GA140 0.1	% GA104 0.01	Mn ppm GA140	% GA140 0.1	% GA104 0.01	Ni ppm GA140	Pb ppm GA140	% GA104 0.01	Pd ppm GG316 0.005	Pt ppm GG316 0.05	Zn ppm GA140	Zn % GA104 0.01
4143258	77231	-1		39	466			144		9		840			370	39				208	
4143259	77231	-1		11	223			97	4.63			311			174	45				432	
4143260	77231	-1		14	183			72		7.2		400			130	34				252	
4143261	77231	-1		11	217			107		9.6		265			70	27				538	
4143262	77231	1		19	200			81		9.1		300			66	104				128	
4143263	77231	-1		10	169			51		8.5		251			47	54				80	
4143264	77231	-1		16	350			79		7.6		317			149	66				195	
4143265	77231	-1		36	469			116		9		421			292	94				342	
4143266	77231	2		11	283			85		9.8		567			103	926				478	
4143267	77231	2		40	1600			621		8.7		477			896	654				1196	
4143268	77231	-1		22	150			41		8		393			81	256				543	
4143269	77231	-1		11	234			32	3.38			204			42	179				131	
4143270	77231	-1		7	148			16	2.76			123			21	83				59	
4143271	77231	-4		101	184			212		8.7		472			392	175					1.44
4143272	77231	12		251	236			165		9.5				19.1	119	945				953	
4143273	77231	1		56	281			87		9.8		2111			128	106				890	
4143274	77231	-1		71	110			46		7.8		376			150	105				949	
4143275	77231	-1		145	139			58		7.2		316			312	15				786	
4143276	77231	-1		34	153			108		7.1		436			122	123				422	
4143277	77231	1		26	198			109		6.2		358			125	161				376	
4143278	77231	-1		26	129			93		6.3		395			107	314				602	
4143279	77231	1		61	180			80	3.8			281			142	253				620	
4143280	77231	2		8	188			129	3.2			122			95	534				327	
4143281	77231	2		9	86			42		10		234			53	384				1244	
4143282	77231	1		13	241			104		6.6		318			42	256				392	
4143283	77231	-1		13	135			28		7.3		289			73	69				177	
4143284	77231	-1		20	123			78		9.4		138			60	241				940	
4143285	77231	4		14	140			90		20.3		410			59	527				1467	
4143286	77231	-1		5	177			36		9		61			17	48				62	
4143287	77231	-1		4	149			30		6.6		59			17	97				36	
4143288	77231	-1		10	210			84		15.4		124			32	13				58	
4143289	77231	-1		4	108			25	4.05			65			13	8				24	
4143290	77231	-1		144	193			97		17.9				1.2	60	44				139	
4143291	77231	-1		6	181			52		14.7		65			10	24				50	
4143292	77231	-1		18	225			67		16.3		110			24	127				92	
4143293	77231	-1		11	170			74		14.2		86			33	36				68	
4143294	77231	-1		6	170			65		9.1		57			15	18				38	
4143295	77231	-1		-3	176			43		7.5		22			10	8				21	
4143296	77231	-1		3	208			43		7.8		36			14	5				33	
4143297	77231	-1		13	184			64	2.58			208			85	156				224	
4143298	77231	-1		22	181			31	4.5			399			57	56				264	
4143299	77231	-1		7	166			23	2.54			187			33	40				121	
4143300	77231	-1		12	157			17		6		321			38	15				57	
4143301	77231	-1		29	184			40		10.2		538			92	20				108	
4143302	77231	-1		8	130			17	2.46			182			33	34				40	
4143303	77231	-1		15	206			106		9		618			90	284				264	
4143304	77231	5		15	249			63		6.8		257			98	177				114	
4143305	77231	-1		21	306			101		11.3		309			94	12				108	
4143306	77231	-1		14	307			127		13.5		173			101	11				57	

305149

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 SI
4143307	77231	366550	5366200	43/92	VAUDEAU	SA	0.4	B	R	O	Ccy.		31
4143308	77231	366525	5366200	43/92	VAUDEAU	SA	0.3	B/C	R	O/V	Ccy.		12
4143309	77231	366500	5366200	43/92	VAUDEAU	SA	0.6	B/C	R	O/V	Ccy.		22
4143310	77231	366300	5366200	43/92	VAUDEAU	SA	0.4	B	R	O	Ccy.		10
4143311	77231	366275	5366200	43/92	VAUDEAU	SA	0.2	B	R	O	Ccy.	Side of steep hill.	14
4143312	77231	366225	5366200	43/92	VAUDEAU	SA	0.8	C	R	V	Ccy.	Creek @ 250E	30
4143313	77231	366200	5366200	43/92	VAUDEAU	SA	0.3	B	R	O/V	Gritty Ccy w/ R.F.s.		40
4143314	77231	366175	5366200	43/92	VAUDEAU	SA	1.0	C	R	V	Ccy w/ R.F.s.		2
4143315	77231	366150	5366200	43/92	VAUDEAU	SA	1.0	B/C	T	B/V	Ccy w/ R.F.s.		1
4143316	77231	366100	5366200	43/92	VAUDEAU	SA	0.8	B/C	R/T	O/V	Ccy w/ R.F.s.	Swamp @ 6125	22
4143317	77231	366075	5366200	43/92	VAUDEAU	SA	0.2	B/C	R	B	Soil w/ R.F.s.		25
4143318	77231	366060	5366200	43/92	VAUDEAU	SA	0.6	A/B	R	B	Ccy.		20
4143319	77231	366025	5366200	43/92	VAUDEAU	SA	0.6	B	R	O	Ccy.		14
4143320	77231	366000	5366200	43/92	VAUDEAU	SA	0.8	B/C	R	O/V	Ccy.		14
4143321	77231	365975	5366200	43/92	VAUDEAU	SA	0.8	B	R	B/V	Ccy.		15
4143322	77231	365950	5366200	43/92	VAUDEAU	SA	0.5	B/C	R/T	O	Ccy w/ R.F.s.		35
4143323	77231	365925	5366200	43/92	VAUDEAU	SA	1.0	A/C	R/T	B/V	Ccy.		6
4143324	77231	365900	5366200	43/92	VAUDEAU	SA	0.8		T	B	Ccy w/ rounded pebbles		23
4143325	77231	365875	5366200	43/92	VAUDEAU	SA	0.8	C	R	O/V	Ccy w/ R.F.s.		18
4143326	77231	365850	5366200	43/92	VAUDEAU	SA	0.1	A/B	T	B/O	Soil w/ R.F.s.		53
4143327	77231	365800	5366200	43/92	VAUDEAU	SA	0.8	B/C	R	O	Ccy.	No sample @ 5825E - rock.	14
4143328	77231	365775	5366200	43/92	VAUDEAU	SA	0.9	B	T	O	Ccy.		20
4143329	77231	365750	5366200	43/92	VAUDEAU	SA	0.4	C	R?	O	Ccy w/ R.F.s.		30
4143330	77231	365725	5366200	43/92	VAUDEAU	SA	0.2	B	T	B	Soil w/ Rounded R.F.s.		80
4143331	77231	365700	5366200	43/92	VAUDEAU	SA	0.7	B	T	O	Ccy w/ qtz R.F.s.		60
4143332	77231	366500	5366100	43/92	VAUDEAU	SA	0.4	B/C	R	B/V	F.s.		150
4143333	77231	366525	5366100	43/92	VAUDEAU	SA	0.4	B/C	R	O/N	Ccy w/ R.F.s.		240
4143334	77231	366550	5366100	43/92	VAUDEAU	SA	0.2	B/C	R	B/O	Soil w/ Ssh R.F.s.		5
4143335	77231	366575	5366100	43/92	VAUDEAU	SA	0.5	C	R	O/V/W	Ssh		7
4143336	77231	366600	5366100	43/92	VAUDEAU	SA	0.3	B	R	O	Ccy.		16
4143337	77231	366625	5366100	43/92	VAUDEAU	SA	0.4	A/B	R	O	Soil		28
4143338	77231	366650	5366100	43/92	VAUDEAU	SA	0.4	A	R	B	Soil w/ qtz R.F.s.		78
4143339	77231	366675	5366100	43/92	VAUDEAU	SA	0.4	B/C	R	B/W	Soil w/ R.F.s.		20
4143340	77231	366700	5366100	43/92	VAUDEAU	SA	0.4	B/C	R	G/B	Soil w/ Ssh R.F.s.		14
4143341	77231	366725	5366100	43/92	VAUDEAU	SA	0.3	C	R	G/B	Rock		17
4143342	77231	366750	5366100	43/92	VAUDEAU	SA	0.2	B	T	B/W	Soil w/ qtz layer		4
4143343	77231	366775	5366100	43/92	VAUDEAU	SA	0.2	B	T	B/W	Soil w/ qtz layer		3
4143344	77231	366200	5366100	43/92	VAUDEAU	SA	0.5	C	R	V	Ccy w/ relict gabbro textures.		15
4143345	77231	366175	5366100	43/92	VAUDEAU	SA	0.5	B	R	O/W	Ccy.		1
4143346	77231	366150	5366100	43/92	VAUDEAU	SA	1.0	B	R	O/V	Ccy.		14
4143347	77231	366125	5366100	43/92	VAUDEAU	SA	0.9	B/C	R	O/V	Ccy w/ R.F.s.		19
4143348	77231	366100	5366100	43/92	VAUDEAU	SA	1.0	B	R	O/V	Ccy.		12
4143349	77231	366490	5366200	43/92	VAUDEAU	SA	0.8	B/C	R	W/V	Ccy w/ R.F.s.		45
4143350	77231	366480	5366200	43/92	VAUDEAU	SA	0.6	B/C	R	O/V	Ccy w/ VR.F.s.		30
4143351	77231	366470	5366200	43/92	VAUDEAU	SA	0.6	B/C	R	O/V	Ccy w/ VR.F.s.		20
4143352	77231	366340	5366200	43/92	VAUDEAU	SA	0.5	B	R	O	Ccy.		15
4143353	77231	366330	5366200	43/92	VAUDEAU	SA	0.5	B	R	O	Ccy.		13
4143354	77231	366320	5366200	43/92	VAUDEAU	SA	0.6	C	R	R/B	Ccy w/ Ssh R.F.s.		30
4143355	77231	366310	5366200	43/92	VAUDEAU	SA	0.4	B/C	R	V/B	Ccy w/ R.F.s.		84

305150

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	Ag ppm GA140	Au ppm GG316	Co ppm GA140	Cr ppm GA140	% GX401	% GX404	Cu ppm GA140	Fe % GA140	% GA140	% GA104	Mn ppm GA140	% GA140	% GA104	Ni ppm GA140	Pb ppm GA140	% GA104	Pd ppm GG316	Pt ppm GG316	Zn ppm GA140	Zn % GA104
		1	0.005	3	7	0.01	0.01	2	0.01	0.1	0.01	3	0.1	0.01	3	3	0.01	0.005	0.05	2	0.01
4143307	77231	-1		7	695			20	4.1			148			25	12				35	
4143308	77231	-1		33	241			94		11.2		411			83	10				152	
4143309	77231	-1		21	590			69		10.7		256			78	19				110	
4143310	77231	-1		6	99			34		7.4		60			26	11				48	
4143311	77231	-1		4	68			26	4.78			30			22	16				28	
4143312	77231	-1		19	321			53		6.9		272			69	25				122	
4143313	77231	-1		8	121			33		7		86			27	12				46	
4143314	77231	-1		27	346			49		6.5		205			143	79				308	
4143315	77231	-1		16	841			53	2.23			226			76	42				166	
4143316	77231	-1		27	440			55		9.2		322			78	39				138	
4143317	77231	-1		6	51			18	4.31			93			11	22				32	
4143318	77231	-1		13	145			61		10.9		135			52	23				79	
4143319	77231	-1		14	602			52		11.4		159			66	18				70	
4143320	77231	-1		15	147			32		6.6		217			46	6				77	
4143321	77231	-1		24	411			60		9		309			64	11				91	
4143322	77231	-1		13	419			29		7.4		199			44	21				62	
4143323	77231	-1		27	429			64	2.92			222			112	22				160	
4143324	77231	-1		28	1396			58	4.58			338			92	22				158	
4143325	77231	-1		24	535			69		9.6		303			84	20				119	
4143326	77231	-1		14	492			49		13.3		298			47	31				76	
4143327	77231	-1		24	449			96		10.7		332			106	28				147	
4143328	77231	-1		21	471			85		7.3		247			76	31				103	
4143329	77231	-1		18	275			38		9.2		299			49	18				81	
4143330	77231	-1		10	465			25		7.3		242			25	13				60	
4143331	77231	-1		21	530			70		9.2		280			71	26				99	
4143332	77231	-1		18	185			42		6.2		374			47	30				94	
4143333	77231	-1		108	428			58		26.9			0.7		27	44				76	
4143334	77231	-1		28	179			61		5.3		257			83	29				162	
4143335	77231	-1		23	218			54		9		402			85	8				96	
4143336	77231	-1		5	150			16		9.6		137			16	45				29	
4143337	77231	-1		9	153			39		12		228			36	172				87	
4143338	77231	-1		7	132			28	3.47			211			27	62				78	
4143339	77231	-1		4	55			39	2.72			180			35	458				122	
4143340	77231	-1		9	98			46	3.06			95			28	31				49	
4143341	77231	-1		29	158			40		10.3		637			87	29				192	
4143342	77231	-1		-3	52			33	0.59			70			11	18				67	
4143343	77231	-1		-3	302			40	1.03			120			6	14				25	
4143344	77231	-1		20	224			51	3.88			363			73	45				130	
4143345	77231	-1		7	395			48	1.47			107			73	29				65	
4143346	77231	-1		13	378			49	3.57			162			110	25				80	
4143347	77231	-1		25	348			82	4.52			334			113	46				143	
4143348	77231	-1		18	241			63		5.3		232			122	29				93	
4143349	77231	-1		21	561			61		9.7		328			102	19				115	
4143350	77231	-1		22	364			65		9.3		323			91	14				129	
4143351	77231	-1		24	277			86		7.3		291			129	18				142	
4143352	77231	-1		-3	138			49		12.1		29			58	10				33	
4143353	77231	-1		-3	603			199		19.5		38			154	-3				75	
4143354	77231	-1		10	174			33		10.8		116			43	9				52	
4143355	77231	-1		10	159			47		9.7		120			46	8				64	

305151

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL.	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 SI
4143356	77231	366490	5366100	43/92	VAUDEAU	SA	0.4	B	T	B	Soil w/ qtz R.F.s.		19
4143357	77231	366470	5366100	43/92	VAUDEAU	SA	0.4	C	R	O	Ssh R.F.s.	Composite grab from cutting	18
4143358	77231	366420	5366100	43/92	VAUDEAU	SA	0.4	C	R	O	Bedrock		30
4143359	77231	366410	5366100	43/92	VAUDEAU	SA	1.2	B/C	R?	M/Y/O	Ccy.		170
4143360	77231	366380	5366100	43/92	VAUDEAU	SA	0.1	C	R	G	R.F.s.	Locally transported	17
4143361	77231	366370	5366100	43/92	VAUDEAU	SA	0.8	C	R	M/W/G	Ccy.		14
4143362	77231	366350	5366100	43/92	VAUDEAU	SA	0.4	B/C	R	B/V	Ccy w/ V Ssh R.F.s.	Locally transported	69
4143363	77231	366340	5366100	43/92	VAUDEAU	SA	0.4	B/C	R	B/V	Ccy w/ V Ssh R.F.s.		140
4143364	77231	366330	5366100	43/92	VAUDEAU	SA	0.6	B/C	R	B/V	Ccy w/ Ssh R.F.s.		53
4143365	77231	366320	5366100	43/92	VAUDEAU	SA	0.4	C	R	W/O	Ccy.		35
4143366	77231	366310	5366100	43/92	VAUDEAU	SA	0.3	B/C	R	R/B	Ccy.		300
4143367	77231	366280	5366100	43/92	VAUDEAU	SA	0.6	C	R	O/V	Ccy.		130
4143368	77231	366270	5366100	43/92	VAUDEAU	SA	0.5	B/C	R	O/V	Ccy w/ V Ssh R.F.s.		25
4143369	77231	366260	5366100	43/92	VAUDEAU	SA	0.9	B/C	R	O/V	Ccy w/ R.F.s.		20
4143370	77231	366250	5366100	43/92	VAUDEAU	SA	0.7	C	R	V	Ccy w/ Ssh R.F.s.	Possibly transported - rare rounded pebbles.	20
4143371	77231	366240	5366100	43/92	VAUDEAU	SA	0.7	C	R	V	Ccy w/ Ssh R.F.s.		15
4143372	77231	366230	5366100	43/92	VAUDEAU	SA	0.7	C	R	V	Ccy w/ Ssh R.F.s.		20
4143373	77231	366220	5366100	43/92	VAUDEAU	SA	0.7	C	R	V	Ccy w/ Ssh R.F.s.		12
4143374	77231	366210	5366100	43/92	VAUDEAU	SA	0.7	C	R	V	Ccy w/ Ssh R.F.s.		27
4143375	77231	366500	5366050	43/92	VAUDEAU	SA	1.2	B/C	T	V	Ccy w/ R.F.s.		15
4143376	77231	366490	5366050	43/92	VAUDEAU	SA	0.5	B	R	O/B	Ccy.		13
4143377	77231	366600	5365800	43/92	VAUDEAU	SA	1.0	B	R	O/W	Ccy.		15
4143378	77231	366575	5365800	43/92	VAUDEAU	SA	0.9	B	R	O	Ccy.		13
4143379	77231	366550	5365800	43/92	VAUDEAU	SA	0.5	B	R	O	Ccy.		9
4143380	77231	366525	5365800	43/92	VAUDEAU	SA	0.7	B	R	B	Ccy.		10
4143381	77231	366500	5365800	43/92	VAUDEAU	SA	0.7	C	R	V	Ccy.		9
4143382	77231	366475	5365800	43/92	VAUDEAU	SA	1.2	C	R	O	Ccy.		10
4143383	77231	366450	5365800	43/92	VAUDEAU	SA	1.0	B	R?	O	Gritty Ccy		20
4143384	77231	366425	5365800	43/92	VAUDEAU	SA	1.2	B	R	O	Ccy.		10
4143385	77231	366400	5365800	43/92	VAUDEAU	SA	1.0	B	T	O/G	Ccy.		13
4143386	77231	366200	5365800	43/92	VAUDEAU	SA	1.0	C	R	K	R.F.s.		15
4143387	77231	366175	5365800	43/92	VAUDEAU	SA	0.6	B/C	R/T	V/O/N	Ccy w/ N Ssh R.F.s.		11
4143388	77231	366150	5365800	43/92	VAUDEAU	SA	0.7	C	R	V	Ccy w/ G Ssh R.F.s.		11
4143389	77231	366125	5365800	43/92	VAUDEAU	SA	1.0	C	R	V	Ccy w/ G Ssh R.F.s.		15
4143390	77233	366600	5365700	43/92	VAUDEAU	SA							
4143391	77233	366575	5365700	43/92	VAUDEAU	SA							
4143392	77233	366550	5365700	43/92	VAUDEAU	SA							
4143393	77233	366525	5365700	43/92	VAUDEAU	SA							
4143394	77233	366500	5365700	43/92	VAUDEAU	SA							
4143395	77233	366850	5367000	43/92	SOUTH CUNI	SA							
4143396	77233	366825	5367000	43/92	SOUTH CUNI	SA							
4143397	77233	366800	5367000	43/92	SOUTH CUNI	SA							
4143398	77233	366775	5367000	43/92	SOUTH CUNI	SA							
4143399	77233	366750	5367000	43/92	SOUTH CUNI	SA							
4143400	77233	366725	5367000	43/92	SOUTH CUNI	SA							
4144102	77233	365925	5367500	43/92	NORTH CUNI	SA							
4144103	77233	365900	5367500	43/92	NORTH CUNI	SA							
4144104	77233	365875	5367500	43/92	NORTH CUNI	SA							
4144105	77233	365850	5367500	43/92	NORTH CUNI	SA							

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	Ag ppm GA140	Au ppm GG316 0.005	Co ppm GA140	Cr ppm GA140	% GX401 0.01	% GX404 0.01	Cu ppm GA140	Fe % GA140	% GA140	% GA104 0.01	Mn ppm GA140	% GA140	% GA104 0.01	Ni ppm GA140	Pb ppm GA140	% GA104 0.01	Pd ppm GG316 0.005	Pt ppm GG316 0.05	Zn ppm GA140	Zn % GA104 0.01
4143356	77231	-1		11	354			32	4.23			258			45	26				100	
4143357	77231	-1		8	103			145		11.9		530			106	31				118	
4143358	77231	-1		22	71			55		10.1		658			89	8				121	
4143359	77231	4		21	280			817		13.7		392			114	856				152	
4143360	77231	-1		9	93			224		7.7		253			103	26				82	
4143361	77231	-1		-3	53			112	2.15			52			39	16				35	
4143362	77231	-1		10	107			38		10.4		80			42	8				51	
4143363	77231	-1		7	80			40		9.1		72			32	6				48	
4143364	77231	-1		11	147			23		11.6		123			41	12				60	
4143365	77231	-1		-3	51			42	3.21			47			6	87				22	
4143366	77231	-1		-3	82			22	4.25			34			8	118				20	
4143367	77231	-1		27	485			87		13.3		383			66	33				126	
4143368	77231	-1		26	294			86		11.6		343			101	20				129	
4143369	77231	-1		29	278			62		9.1		366			100	14				126	
4143370	77231	-1		19	253			42		6.6		318			72	22				98	
4143371	77231	-1		25	479			64	4.94			437			131	17				159	
4143372	77231	-1		32	331			77	3.36			358			91	17				159	
4143373	77231	1		46	1260			105	4.05			357			124	25				193	
4143374	77231	1		33	262			104	4.51			443			109	96				189	
4143375	77231	-1		36	342			86	4.03			471			111	22				173	
4143376	77231	-1		4	321			14	2.04			77			28	16				30	
4143377	77231	-1		-3	13			6	1.42			57			18	19				20	
4143378	77231	1		4	65			88		5.2		100			55	28				57	
4143379	77231	-1		-3	64			46		11.1		36			25	-3				35	
4143380	77231	-1		-3	44			40		8.4		33			23	12				25	
4143381	77231	-1		17	214			57	4.14			368			73	24				134	
4143382	77231	-1		26	99			89	2.6			61			57	20				94	
4143383	77231	-1		10	118			157		11.5		106			60	464				322	
4143384	77231	-1		8	116			53		6.7		160			55	167				183	
4143385	77231	-1		7	169			74		10.4		159			39	97				74	
4143386	77231	-1		23	315			90		7.4		247			110	41				179	
4143387	77231	1		12	320			59		5.4		259			65	68				135	
4143388	77231	-1		21	276			52	4.36			242			75	39				200	
4143389	77231	-1		43	108			66		5.3		256			75	36				183	
4143390	77233																				
4143391	77233																				
4143392	77233																				
4143393	77233																				
4143394	77233																				
4143395	77233																				
4143396	77233																				
4143397	77233																				
4143398	77233																				
4143399	77233																				
4143400	77233																				
4144102	77233																				
4144103	77233																				
4144104	77233																				
4144105	77233																				

305153

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10 ⁻⁵ SI
4144106	77233	365825	5367500	43/92	NORTH CUNI	SA							
4144107	77233	365800	5367500	43/92	NORTH CUNI	SA							
4144108	77233	365750	5367500	43/92	NORTH CUNI	SA							
4144109	77233	365240	5365800	43/92	VAUDEAU	SA							
4144110	77233	365250	5365800	43/92	VAUDEAU	SA							
4144111	77233	365260	5365800	43/92	VAUDEAU	SA							
4144112	77233	365270	5365800	43/92	VAUDEAU	SA							
4144113	77233	365280	5365800	43/92	VAUDEAU	SA							
4144114	77233	365310	5365800	43/92	VAUDEAU	SA							
4144115	77233	365320	5365800	43/92	VAUDEAU	SA							
4144116	77233	365340	5365800	43/92	VAUDEAU	SA							
4144117	77233	365350	5365800	43/92	VAUDEAU	SA							
4144118	77233	365360	5365800	43/92	VAUDEAU	SA							
4144119	77233	365370	5365800	43/92	VAUDEAU	SA							
4144120	77233	365380	5365700	43/92	VAUDEAU	SA							
4144121	77233	365390	5365700	43/92	VAUDEAU	SA							
4144122	77233	365400	5365700	43/92	VAUDEAU	SA							
4144123	77233	365410	5365700	43/92	VAUDEAU	SA							
4144124	77233	365420	5365700	43/92	VAUDEAU	SA							
4144125	77233	365430	5365700	43/92	VAUDEAU	SA							
4144126	77233	366350	5365700	43/92	VAUDEAU	SA							
4144127	77233	366200	5365750	43/92	VAUDEAU	SA							
4144128	77233	366210	5365750	43/92	VAUDEAU	SA							
4144129	77233	366220	5365750	43/92	VAUDEAU	SA							
4144130	77233	366230	5365750	43/92	VAUDEAU	SA							
4144131	77233	366240	5365750	43/92	VAUDEAU	SA							
4144132	77233	366250	5365750	43/92	VAUDEAU	SA							
4144133	77233	366260	5365750	43/92	VAUDEAU	SA							
4144134	77233	366270	5365750	43/92	VAUDEAU	SA							
4144135	77233	366280	5365750	43/92	VAUDEAU	SA							
4144136	77233	366290	5365750	43/92	VAUDEAU	SA							
4144137	77233	366300	5365750	43/92	VAUDEAU	SA							
4144138	77233	366310	5365750	43/92	VAUDEAU	SA							
4144139	77233	366320	5365750	43/92	VAUDEAU	SA							
4144140	77233	366365	5365750	43/92	VAUDEAU	SA							
4144141	77233	366375	5365750	43/92	VAUDEAU	SA							
4144142	77233	366400	5365750	43/92	VAUDEAU	SA							
4144143	77233	366410	5366000	43/92	VAUDEAU	SA							
4144144	77233	366420	5366000	43/92	VAUDEAU	SA							
4144145	77233	366430	5366000	43/92	VAUDEAU	SA							
4144146	77233	366440	5366000	43/92	VAUDEAU	SA							
4144147	77233	366470	5366000	43/92	VAUDEAU	SA							
4144148	77233	366480	5366000	43/92	VAUDEAU	SA							
4144149	77233	366490	5366000	43/92	VAUDEAU	SA							
4144150	77233	366500	5366000	43/92	VAUDEAU	SA							
4144151	77233	366240	5366050	43/92	VAUDEAU	SA							
4144152	77233	366230	5366050	43/92	VAUDEAU	SA							
4144153	77233	366220	5366050	43/92	VAUDEAU	SA							
4144154	77233	366210	5366050	43/92	VAUDEAU	SA							

305154

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 SI
4144155	77233	366320	5366050	43/92	VAUDEAU	SA							
4144156	77233	366400	5366050	43/92	VAUDEAU	SA							
4144157	77233	366320	5366050	43/92	VAUDEAU	SA							
4144158	77233	366410	5366050	43/92	VAUDEAU	SA							
4144159	77233	366370	5366050	43/92	VAUDEAU	SA							
4144160	77233	366380	5366050	43/92	VAUDEAU	SA							
4144161	77233	366430	5366050	43/92	VAUDEAU	SA							
4144301	77233	366405	5366700	43/92	SOUTH CUNI	SA							
4144302	77233	366380	5366700	43/92	SOUTH CUNI	SA							
4144303	77233	366355	5366700	43/92	SOUTH CUNI	SA							
4144304	77233	366330	5366700	43/92	SOUTH CUNI	SA							
4144305	77233	366850	5366500	43/92	SOUTH CUNI	SA							
4144306	77233	366825	5366500	43/92	SOUTH CUNI	SA							
4144307	77233	366800	5366500	43/92	SOUTH CUNI	SA							
4144308	77233	366775	5366500	43/92	SOUTH CUNI	SA							
4144309	77233	366750	5366500	43/92	SOUTH CUNI	SA							
4144310	77233	366725	5366500	43/92	SOUTH CUNI	SA							
4144311	77233	366700	5366500	43/92	SOUTH CUNI	SA							
4144312	77233	366675	5366500	43/92	SOUTH CUNI	SA							
4144313	77233	366650	5366500	43/92	SOUTH CUNI	SA							
4144314	77233	366625	5366500	43/92	SOUTH CUNI	SA							
4144315	77233	366600	5366500	43/92	SOUTH CUNI	SA							
4144316	77233	366575	5366500	43/92	SOUTH CUNI	SA							
4144317	77233	366550	5366500	43/92	SOUTH CUNI	SA							
4144318	77233	366500	5366500	43/92	SOUTH CUNI	SA							
4144319	77233	366475	5366500	43/92	SOUTH CUNI	SA							
4144320	77233	366450	5366500	43/92	SOUTH CUNI	SA							
4144321	77233	366440	5366500	43/92	SOUTH CUNI	SA							
4144322	77233	366420	5366500	43/92	SOUTH CUNI	SA							
4144323	77233	366410	5366500	43/92	SOUTH CUNI	SA							
4144324	77233	366400	5366500	43/92	SOUTH CUNI	SA							
4144325	77233	366390	5366500	43/92	SOUTH CUNI	SA							
4144326	77233	366380	5366500	43/92	SOUTH CUNI	SA							
4144327	77233	366370	5366500	43/92	SOUTH CUNI	SA							
4144328	77233	366360	5366500	43/92	SOUTH CUNI	SA							
4144329	77233	366350	5366500	43/92	SOUTH CUNI	SA							
4144330	77233	366340	5366500	43/92	SOUTH CUNI	SA							
4144331	77233	366330	5366500	43/92	SOUTH CUNI	SA							
4144332	77233	366320	5366500	43/92	SOUTH CUNI	SA							
4144333	77233	366310	5366500	43/92	SOUTH CUNI	SA							
4144334	77233	366300	5366500	43/92	SOUTH CUNI	SA							
4144335	77233	366290	5366500	43/92	SOUTH CUNI	SA							
4144336	77233	366280	5366500	43/92	SOUTH CUNI	SA							
4144337	77233	366270	5366500	43/92	SOUTH CUNI	SA							
4144338	77233	366260	5366500	43/92	SOUTH CUNI	SA							
4144339	77233	366250	5366500	43/92	SOUTH CUNI	SA							
4144340	77233	366240	5366500	43/92	SOUTH CUNI	SA							
4144341	77233	366230	5366500	43/92	SOUTH CUNI	SA							
4144342	77233	366220	5366500	43/92	SOUTH CUNI	SA							

305155

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL.	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC x 10-5 SI
4144343	77233	366210	5366500	43/92	SOUTH CUNI	SA							
4144344	77233	366200	5366500	43/92	SOUTH CUNI	SA							
4144345	77233	366175	5366500	43/92	SOUTH CUNI	SA							
4144346	77233	366150	5366500	43/92	SOUTH CUNI	SA							
4144347	77233	366125	5366500	43/92	SOUTH CUNI	SA							
4144348	77233	366100	5366500	43/92	SOUTH CUNI	SA							
4144349	77233	366075	5366500	43/92	SOUTH CUNI	SA							
4144350	77233	366050	5366500	43/92	SOUTH CUNI	SA							
4144351	77233	366025	5366500	43/92	SOUTH CUNI	SA							
4144352	77233	366000	5366500	43/92	SOUTH CUNI	SA							
4144353	77233	365975	5366500	43/92	SOUTH CUNI	SA							
4144354	77233	365925	5366500	43/92	SOUTH CUNI	SA							
4144355	77233	365900	5366500	43/92	SOUTH CUNI	SA							
4144356	77233	365875	5366500	43/92	SOUTH CUNI	SA							
4144357	77233	365850	5366500	43/92	SOUTH CUNI	SA							
4144358	77233	365840	5366500	43/92	SOUTH CUNI	SA							
4144359	77233	365825	5366500	43/92	SOUTH CUNI	SA							
4144360	77233	365800	5366500	43/92	SOUTH CUNI	SA							
4144361	77233	365775	5366500	43/92	SOUTH CUNI	SA							
4144362	77233	365750	5366500	43/92	SOUTH CUNI	SA							
4144363	77233	366200	5366300	43/92	SOUTH CUNI	SA							
4144364	77233	366220	5366300	43/92	SOUTH CUNI	SA							
4144365	77233	366240	5366300	43/92	SOUTH CUNI	SA							
4144366	77233	366260	5366300	43/92	SOUTH CUNI	SA							
4144367	77233	366280	5366300	43/92	SOUTH CUNI	SA							
4144368	77233	366300	5366300	43/92	SOUTH CUNI	SA							
4144369	77233	366320	5366300	43/92	SOUTH CUNI	SA							
4144370	77233	366340	5366300	43/92	SOUTH CUNI	SA							
4144371	77233	366350	5366300	43/92	SOUTH CUNI	SA							
4144372	77233	366360	5366300	43/92	SOUTH CUNI	SA							
4144373	77233	366400	5366300	43/92	SOUTH CUNI	SA							
4144374	77233	366410	5366300	43/92	SOUTH CUNI	SA							
4144375	77233	366420	5366300	43/92	SOUTH CUNI	SA							
4144376	77233	366430	5366300	43/92	SOUTH CUNI	SA							
4144377	77233	366450	5366300	43/92	SOUTH CUNI	SA							
4144378	77233	366475	5366300	43/92	SOUTH CUNI	SA							
4144379	77233	366500	5366300	43/92	SOUTH CUNI	SA							
4144380	77233	366125	5367700	43/92	NORTH CUNI	SA							
4144381	77233	366100	5367700	43/92	NORTH CUNI	SA							
4144382	77233	366075	5367700	43/92	NORTH CUNI	SA							
4144383	77233	366050	5367700	43/92	NORTH CUNI	SA							
4144384	77233	366000	5367700	43/92	NORTH CUNI	SA							
4144385	77233	365975	5367700	43/92	NORTH CUNI	SA							
4144386	77233	365950	5367700	43/92	NORTH CUNI	SA							
4144387	77233	365925	5367700	43/92	NORTH CUNI	SA							
4144388	77233	365900	5367700	43/92	NORTH CUNI	SA							
4144389	77233	365875	5367700	43/92	NORTH CUNI	SA							
4144390	77233	365850	5367700	43/92	NORTH CUNI	SA							
4144391	77233	365825	5367700	43/92	NORTH CUNI	SA							

305156

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO	DPO	EAST	NORTH	EL	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 SI
4144392	77233	365800	5367700	43/92	NORTH CUNI	SA							
4144393	77233	365775	5367700	43/92	NORTH CUNI	SA							
4144394	77233	365750	5367700	43/92	NORTH CUNI	SA							
4144395	77233	366125	5367500	43/92	NORTH CUNI	SA							
4144396	77233	366100	5367500	43/92	NORTH CUNI	SA							
4144397	77233	366075	5367500	43/92	NORTH CUNI	SA							
4144398	77233	366050	5367500	43/92	NORTH CUNI	SA							
4144399	77233	366000	5367500	43/92	NORTH CUNI	SA							
4144400	77233	365975	5367500	43/92	NORTH CUNI	SA							
4144401	77233	365950	5367000	43/92	SOUTH CUNI	SA							
4144402	77233	365925	5367000	43/92	SOUTH CUNI	SA							
4144403	77233	365900	5367000	43/92	SOUTH CUNI	SA							
4144404	77233	365875	5367000	43/92	SOUTH CUNI	SA							
4144405	77233	365850	5367000	43/92	SOUTH CUNI	SA							
4144406	77233	365825	5367000	43/92	SOUTH CUNI	SA							
4144407	77233	365800	5367000	43/92	SOUTH CUNI	SA							
4144408	77233	365775	5367000	43/92	SOUTH CUNI	SA							
4144409	77233	365750	5367000	43/92	SOUTH CUNI	SA							
4144410	77233	365725	5367000	43/92	SOUTH CUNI	SA							
4144411	77233	365700	5367000	43/92	SOUTH CUNI	SA							
4144412	77233	365690	5367000	43/92	SOUTH CUNI	SA							
4144413	77233	365680	5367000	43/92	SOUTH CUNI	SA							
4144414	77233	365670	5367000	43/92	SOUTH CUNI	SA							
4144415	77233	365660	5367000	43/92	SOUTH CUNI	SA							
4144416	77233	365650	5367000	43/92	SOUTH CUNI	SA							
4144417	77233	365640	5367000	43/92	SOUTH CUNI	SA							
4144418	77233	365630	5367000	43/92	SOUTH CUNI	SA							
4144419	77233	365620	5367000	43/92	SOUTH CUNI	SA							
4144420	77233	366350	5367000	43/92	SOUTH CUNI	SA							
4144421	77233	366340	5367000	43/92	SOUTH CUNI	SA							
4144422	77233	366330	5367000	43/92	SOUTH CUNI	SA							
4144423	77233	366320	5367000	43/92	SOUTH CUNI	SA							
4144424	77233	366310	5367000	43/92	SOUTH CUNI	SA							
4144425	77233	366300	5367000	43/92	SOUTH CUNI	SA							
4144426	77233	366290	5367000	43/92	SOUTH CUNI	SA							
4144427	77233	366280	5367000	43/92	SOUTH CUNI	SA							
4144428	77233	366270	5367000	43/92	SOUTH CUNI	SA							
4144429	77233	366260	5367000	43/92	SOUTH CUNI	SA							
4144430	77233	366250	5367000	43/92	SOUTH CUNI	SA							
4144431	77233	366240	5367000	43/92	SOUTH CUNI	SA							
4144432	77233	366230	5367000	43/92	SOUTH CUNI	SA							
4144433	77233	366220	5367000	43/92	SOUTH CUNI	SA							
4144434	77233	366210	5367000	43/92	SOUTH CUNI	SA							
4144435	77233	366200	5367000	43/92	SOUTH CUNI	SA							
4144436	77233	366175	5367000	43/92	SOUTH CUNI	SA							
4144437	77233	366150	5367000	43/92	SOUTH CUNI	SA							
4144438	77233	366125	5367000	43/92	SOUTH CUNI	SA							
4144439	77233	366100	5367000	43/92	SOUTH CUNI	SA							
4144440	77233	366075	5367000	43/92	SOUTH CUNI	SA							

305157

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL.	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 SI
4144490	77233	366100	5366700	43/92	SOUTH CUNI	SA							
4144491	77233	366075	5366700	43/92	SOUTH CUNI	SA							
4144492	77233	366050	5366700	43/92	SOUTH CUNI	SA							
4144493	77233	366025	5366700	43/92	SOUTH CUNI	SA							
4144494	77233	366000	5366700	43/92	SOUTH CUNI	SA							
4144495	77233	365975	5366700	43/92	SOUTH CUNI	SA							
4144496	77233	365950	5366700	43/92	SOUTH CUNI	SA							
4144497	77233	365925	5366700	43/92	SOUTH CUNI	SA							
4144498	77233	365900	5366700	43/92	SOUTH CUNI	SA							
4144499	77233	365875	5366700	43/92	SOUTH CUNI	SA							
4144500	77233	365850	5366700	43/92	SOUTH CUNI	SA							
3911707	77353	366480	5366150	43/92	VAUDEAU	SA	0.7	C	R	YV	Ccy with Ssh rock fragments	Mines Dept grav stn. on road	50
3911708	77353	366410	5366150	43/92	NORTH CUNI	SA	0.5	C	R	DB	Ccy with Ssh & minor vuggy qtz	Next to 3528459-61 (ROCK)	19
3911709	77353	366385	5366100	43/92	VAUDEAU	SA	0.1	C	R	GY	Ccy with silicified Ssh & ooze	Taken from L/W costean full of water	350
3911710	77353	366500	5366310	43/92	VAUDEAU	SA	0.4	C	R	V	V Ssh with Ccy	From CSR 6400E 6250N	24
3911711	77353	366450	5366300	43/92	VAUDEAU	SA	0.4	B/C	R	YO	Ccy with Ssh	On hill	20
3911712	77353	366275	5367315	43/92	NORTH CUNI	SA	1.1	C	R	LGVO	Ccy with V Ssh	From CSR 6200E 7300N	19
3911713	77353	366270	5367505	43/92	NORTH CUNI	SA	0.4	B	R/T	O	Gritty Ccy	Star picket "S1899"	13
3911714	77353	366345	5367610	43/92	NORTH CUNI	SA	0.4	C	R	V	Ssh fragments	20 m E of North Cuni shaft	20
3911715	77353	366345	5367687	43/92	NORTH CUNI	SA	0.5	C	R	B	Ccy with minor Ssh	0E - Mines Dept gravity traverse stn.	13
3911716	77353	366329	5367698	43/92	NORTH CUNI	SA	0.4	C	R	B	Ccy with minor Ssh	20W - Mines Dept gravity traverse stn.	20
3911717	77353	366312	5367709	43/92	NORTH CUNI	SA	0.5	C	R	DB	Ccy with Ssh & minor Vu qtz	40W - Mines Dept gravity traverse stn.	19
3911718	77353	366290	5367711	43/92	NORTH CUNI	SA	0.8	C	R	B	Ccy with common Ssh	60W - Mines Dept gravity traverse stn.	20
3911719	77353	366269	5367709	43/92	NORTH CUNI	SA	0.8	C	R	DPB	Ccy with common Ssh	80W - Mines Dept gravity traverse stn.	15
3911720	77353	366247	5367712	43/92	NORTH CUNI	SA	0.9	C	R	MLV	Ccy with minor Ssh	100W - Mines Dept gravity traverse stn.	26
3911721	77353	366229	5367707	43/92	NORTH CUNI	SA	0.7	B/C	R	MGV	Ccy with minor sed? RF	120W - Mines Dept gravity traverse stn.	12
3911722	77353	366219	5367688	43/92	NORTH CUNI	SA	0.7	C	R	MLV	Ccy with trace sed? RF	140W - Mines Dept gravity traverse stn.	16
3911723	77353	366198	5367680	43/92	NORTH CUNI	SA	0.7	C	R	DPB	Ccy with common Ssh	160W - Mines Dept gravity traverse stn.	16
3911724	77353	366180	5367677	43/92	NORTH CUNI	SA	0.4	C	R	GLV	Ccy with Ssh	180W - Mines Dept gravity traverse stn.	20
3911725	77353	366383	5367675	43/92	NORTH CUNI	SA	0.4	C	R	B	Ccy with common Ssh	40E - Mines Dept gravity traverse stn.	18
3911726	77353	366403	5367671	43/92	NORTH CUNI	SA	0.7	B/C	R	B	Ccy with trace Ssh	60E - Mines Dept gravity traverse stn.	12
3911727	77353	366424	5367673	43/92	NORTH CUNI	SA	0.6	C	R	LVG	Ccy with minor Ssh	80E - Mines Dept gravity traverse stn.	20
3911728	77353	366444	5367673	43/92	NORTH CUNI	SA	0.6	B/C	R	G	Gritty Ccy	100E - Mines Dept gravity traverse stn.	11
3911729	77353	366463	5367672	43/92	NORTH CUNI	SA	0.4	C	R	LVG	Ccy with minor RF	120E - Mines Dept gravity traverse stn.	20
3911730	77353	366483	5367670	43/92	NORTH CUNI	SA	0.2	B/C	R	LGB	Ccy with common RF. Poor soil developed.	140E - Mines Dept gravity traverse stn.	15
3911731	77353	374410	5375990		OFF LICENCE	SA	0.2	C	R	DR	luFe	Trench. Large white mica xtls.	49
3911742	77353	366503	5367671	43/92	NORTH CUNI	SA	0.3	B/C	R	P	Ssh	160E - Hit bedrock	15
3911743	77353	366523	5367671	43/92	NORTH CUNI	SA	0.6	B/C	R	P	Ccy	180E - Over Ssh?	19
3911744	77353	366444	5367673	43/92	NORTH CUNI	SA	0.6	B/C	R	G	Gritty Ccy	100E - Mines Dept gravity traverse stn.	11
3911745	77353	366440	5366150	43/92	VAUDEAU	SA	1.5	C	R	PB	Ccy with Ssh	Next to 3528459-61 (ROCK)	16
3911745	77353	366563	5367671	43/92	NORTH CUNI	SA	0.8	C	R	LV	Ccy with LV Ssh	220E - Mines Dept gravity traverse stn.	25
3912901	77355	366100	5365950	43/92	VAUDEAU	SA	2.0	C?	R?	O	Friable Ccy		10
3912902	77355	366125	5365950	43/92	VAUDEAU	SA	1.3	B/C?	R?	O	Friable Ccy	Msl rock fragments	290
3912903	77355	366150	5365950	43/92	VAUDEAU	SA	1.5	C	R	POG	Gritty Ccy	On track	10
3912904	77355	366175	5365950	43/92	VAUDEAU	SA	1.1	C	R	O	Gritty friable Ccy	Msl rock fragments	20
3912905	77355	366200	5365950	43/92	VAUDEAU	SA	1.5	B	R	B	Silty	Track at 190E	20
3912906	77355	366225	5365950	43/92	VAUDEAU	SA	0.7	B	R	O	Sandy/silty		90
3912907	77355	366250	5365950	43/92	VAUDEAU	SA	0.8	B/C	R?	BR	Sandy/silty	After sulphides?	20
3912908	77355	366260	5365950	43/92	VAUDEAU	SA	1.0	C	R	PO	Gritty friable Ccy		30

305158

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO	DPO	Ag ppm GA140	Au ppm GG316	Co ppm GA140	Cr ppm GA140	% GX401	% GX404	Cu ppm GA140	Fe % GA140	% GA140	% GA104	Mn ppm GA140	% GA140	% GA104	Ni ppm GA140	Pb ppm GA140	% GA104	Pd ppm GG316	Pt ppm GG316	Zn ppm GA140	Zn % GA104
		1	0.005	3	7	0.01	0.01	2	0.01	0.1	0.01	3	0.1	0.01	3	3	0.01	0.005	0.05	2	0.01
4144490	77233																				
4144491	77233																				
4144492	77233																				
4144493	77233																				
4144494	77233																				
4144495	77233																				
4144496	77233																				
4144497	77233																				
4144498	77233																				
4144499	77233																				
4144500	77233																				
3911707	77353	-1		42	1113			266			10.90				154	23				122	
3911708	77353	-1		4	68			76			12.40				100	59				51	
3911709	77353	-1		50	229			1737			10.90				792	29				175	
3911710	77353	-1		30	417			50			7.07				104	6				126	
3911711	77353	-1		-3	156			64			9.36				72	130				90	
3911712	77353	-1		19	120			37			7.18				74	3				84	
3911713	77353	-1		-3	153			10			6.70				9	50				24	
3911714	77353	-1		13	334			69	4.18						82	835				223	
3911715	77353	-1		-3	286			133			15.10				94	34				66	
3911716	77353	-1		-3	314			123			17.60				83	9				142	
3911717	77353	-1		-3	165			251			16.10				227	26				76	
3911718	77353	-1		5	181			423			18.70				300	46				55	
3911719	77353	-1		7	150			139			13.00				113	1338				85	
3911720	77353	-1		38	769			352			12.10				964	102				95	
3911721	77353	-1		6	116			51	3.32						44	87				87	
3911722	77353	-1		25	139			21			6.02				139	41				407	
3911723	77353	-1		19	102			25			9.31				57	14				115	
3911724	77353	-1		31	371			53			10.50				244	43				110	
3911725	77353	-1		-3	128			190			13.10				39	69				74	
3911726	77353	-1		-3	129			42			6.77				44	23				23	
3911727	77353	-1		13	99			22			11.00				58	69				110	
3911728	77353	-1		-3	66			15	3.92						23	14				25	
3911729	77353	-1		6	199			12	4.30						25	12				47	
3911730	77353	-1		4	117			20	2.82						29	24				43	
3911731	77353	-1		358			1.82	70			30.70				1651	145				211	
3911742	77353	-1		13	167			15			5.83				50	11				70	
3911743	77353	-1		17	160			17			9.09				61	9				86	
3911744	77353	-1		-3	66			15	3.92						23	14				25	
3911745	77353	-1		4	68			76			12.40				100	59				51	
3911745	77353	-1		11	111			30			9.51				76	23				80	
3912901	77355	-1		30	264			104			13.10				116	8				128	
3912902	77355	-1		13	308			96			16.00				63	-3				95	
3912903	77355	-1		-3	117			94			7.34				22	31				21	
3912904	77355	-1		11	193			169			20.40				78	4				75	
3912905	77355	-1		12	284			81			16.20				74	4				93	
3912906	77355	-1		13	223			77			12.20				61	-3				94	
3912907	77355	-1		16	235			41			17.00				134	22				116	
3912908	77355	-1		13	2725			364			15.40				155	5				89	

305159

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMP NO	DPO	EAST	NORTH	EL	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 SI
3912909	77355	366270	5365950	43/92	VAUDEAU	SA	1.0	C	R	PO	Gritty friable Ccy		10
3912910	77355	366280	5365950	43/92	VAUDEAU	SA	1.0	C	R	POVG	Gritty friable Ccy	Rock fragments	20
3912911	77355	366290	5365950	43/92	VAUDEAU	SA	1.0	C	R	POVG	Gritty friable Ccy	Rock fragments	10
3912912	77355	366300	5365950	43/92	VAUDEAU	SA	0.8	C?	R?	PVG	Gritty friable Ccy	Green Msl rock fragments.	10
3912913	77355	366310	5365950	43/92	VAUDEAU	SA	0.7	C?	R?	PVG	Gritty friable Ccy	Green Msl rock fragments.	10
3912914	77355	366320	5365950	43/92	VAUDEAU	SA	0.8	C?	R?	PVG	Gritty friable Ccy	Green Msl rock fragments.	0
3912915	77355	366330	5365950	43/92	VAUDEAU	SA	0.8	C?	R?	PVG	Gritty friable Ccy	Green Msl rock fragments.	10
3912916	77355	366340	5365950	43/92	VAUDEAU	SA	0.7	C	R	PVG	Gritty friable Ccy	From swamp. V rock fragments	10
3912917	77355	366350	5365950	43/92	VAUDEAU	SA	1.2	C	R	PG	Ccy	Primary Msl foliation recognized	0
3912918	77355	366360	5365950	43/92	VAUDEAU	SA	1.1	B	R	MLBO	Gritty friable Ccy		10
3912919	77355	366370	5365950	43/92	VAUDEAU	SA	1.1	B	R	MLBO	Gritty friable Ccy		220
3912920	77355	366380	5365950	43/92	VAUDEAU	SA	0.5	B/C	R	O	Ccy with hornfels Sw fragments	On outcrop. Extension of Vaudeau ridge	30
3912921	77355	366390	5365950	43/92	VAUDEAU	SA	1.3	B	R?	MNO	Gritty Ccy		10
3912922	77355	366400	5365950	43/92	VAUDEAU	SA	0.8	A/B	T	N	Gravelly peat	Swampy broad gully	10
3912923	77355	366425	5365950	43/92	VAUDEAU	SA	0.3	B/C	R	B	Ccy with Sw rock fragments	Track at 425E. Sample taken at 430E	10
3912924	77355	366450	5366150	43/92	VAUDEAU	SA	0.4	C	R	P	Ccy with Ssh fragments		20
3912925	77355	366430	5366150	43/92	VAUDEAU	SA	0.4	B/C	R	O	Ccy with rock fragments		70
3912926	77355	366420	5366150	43/92	VAUDEAU	SA	1.5	B	clay	PV	Ccy		30
3912927	77355	366410	5366150	43/92	VAUDEAU	SA	0.8	B/C	R	PV	Gritty Ccy	Green Ssh fragments	20
3912928	77355	366400	5366150	43/92	VAUDEAU	SA	2.0	B	Clay	PV	Ccy	Very soft at EOH	10
3912929	77355	366390	5366150	43/92	VAUDEAU	SA	1.3	B?C	R	PV	Ccy with Ssh fragments		20
3912930	77355	366380	5366150	43/92	VAUDEAU	SA	1.3	B/C	R	OV	Gritty Ccy	Green Ssh RF	30
3912931	77355	366370	5366150	43/92	VAUDEAU	SA	0.9	C	R	PV	Rock fragments with minor Ccy	1 m west of old trench	30
3912932	77355	366360	5366150	43/92	VAUDEAU	SA	0.7	C?	R	O	Gritty Ccy with unidentified RF	Ck at 365E	10
3912933	77355	366350	5366150	43/92	VAUDEAU	SA	1.0	C	R	O	Gritty Ccy with Ssh frag		10
3912934	77355	366340	5366150	43/92	VAUDEAU	SA	0.7	B/C	R	O	Gritty Ccy		20
3912935	77355	366330	5366150	43/92	VAUDEAU	SA	0.4	C?	R	O	Gritty Ccy	Adjacent to lgb float and Sss outcrop	130
3912936	77355	366320	5366150	43/92	VAUDEAU	SA	0.4	C	R	VB	Ccy with shale rock fragments	Top of hill	20
3912937	77355	366310	5366150	43/92	VAUDEAU	SA	0.3	B/C	R	B	Ccy.	Poor C horizon developed	50
3912938	77355	366300	5366150	43/92	VAUDEAU	SA	0.2	A/C	R	B	Ccy with Ssh rock fragments	Track at 6298E	130
3912939	77355	366290	5366150	43/92	VAUDEAU	SA	0.6	C	R	PO	Ccy with Ssh rock fragments		40
3912940	77355	366280	5366150	43/92	VAUDEAU	SA	0.9	C	R	VB	Ccy with Ssh rock fragments	Creek at 6275E	20
3912941	77355	366270	5366150	43/92	VAUDEAU	SA	1.2	B/C	R/T	LG	Ccy with gravel and green Ssh	Gravels may be assoc. with creek	20
3912942	77355	366260	5366150	43/92	VAUDEAU	SA	0.3	B	T	OB	Ccy with gravels	Black Ssh and qtz fragments	60
3912943	77355	366250	5366150	43/92	VAUDEAU	SA	0.9	B/C	R	OV	Gritty sandy Ccy		20
3912944	77355	366450	5365950	43/92	VAUDEAU	SA	0.7	C	R	G	Ccy		20
3912945	77355	366475	5365950	43/92	VAUDEAU	SA	0.4	C	R	LBG	G Ssh friable	Water at EOH	10
3912946	77355	366500	5365950	43/92	VAUDEAU	SA	2.0	B		O	Ccy		20
3912947	77355	366525	5365950	43/92	VAUDEAU	SA	1.9	B		O	Ccy	On Hill	10
3912948	77355	366550	5365950	43/92	VAUDEAU	SA	1.0	B		O	Ccy	Very hard to penetrate. On hill.	10
3912949	77355	366575	5365950	43/92	VAUDEAU	SA	1.1	B		O	Ccy	Very hard to penetrate. On hill.	10
3912950	77355	366600	5365950	43/92	VAUDEAU	SA	0.6	B		LB	Ccy	Very hard to penetrate.	20
3912951	77355	366625	5365950	43/92	VAUDEAU	SA	1.0	B?		PO	Ccy	Very hard to penetrate.	10
3912952	77355	366650	5365950	43/92	VAUDEAU	SA	0.9	B	R?	MOW		Very hard to penetrate.	10
3912953	77355	366675	5365950	43/92	VAUDEAU	SA	0.8	B/C	R	DG	Sbs Ccy	Graphitic	10
3912954	77355	366700	5365950	43/92	VAUDEAU	SA	1.5	C		MOW	Ccy	Very hard to penetrate. 705E railway line	20
3912955	77355	366725	5365950	43/92	VAUDEAU	SA	0.9	B/C	R?	MKO	Ccy with rock fragments	Very hard to penetrate.	20
3912956	77355	366750	5365950	43/92	VAUDEAU	SA	1.5	B		OK	Ccy		10
3912957	77355	366775	5365950	43/92	VAUDEAU	SA	1.2	B/C?	R?	LG	Ccy	Rock fragments?	20

302160

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	Ag ppm GA140	Au ppm GG316	Co ppm GA140	Cr ppm GA140	% GX401	% GX404	Cu ppm GA140	Fe % GA140	% GA140	% GA104	Mn ppm GA140	% GA140	% GA104	Ni ppm GA140	Pb ppm GA140	% GA104	Pd ppm GG316	Pt ppm GG316	Zn ppm GA140	Zn % GA104
		1	0.005	3	7	0.01	0.01	2	0.01	0.1	0.01	3	0.1	0.01	3	3	0.01	0.005	0.05	2	0.01
3912909	77355	-1		23	613			123				15.10			173	16				99	
3912910	77355	-1		46	848			110				11.10			519	11				131	
3912911	77355	-1		6	104			42				7.75			58	15				81	
3912912	77355	-1		55	153			12	2.61						40	13				40	
3912913	77355	-1		-3	152			24	1.17						27	31				18	
3912914	77355	-1		-3	92			20	1.26						25	10				22	
3912915	77355	-1		8	137			60	3.58						81	22				79	
3912916	77355	-1		10	147			70			7.17				67	29				77	
3912917	77355	-1		-3	41			10	0.94						16	77				20	
3912918	77355	-1		7	105			58			9.61				44	199				66	
3912919	77355	-1		9	158			42			12.20				51	21				77	
3912920	77355	-1		19	112			19			10.40				57	5				95	
3912921	77355	-3		-3	57			62			6.78				4	76				21	
3912922	77355	-1		4	222			23			6.20				70	42				89	
3912923	77355	-1		5	192			174	2.75						45	61				76	
3912924	77355	-1		13	143			120			11.80				70	19				88	
3912925	77355	-1		12	360			250			13.00				201	28				110	
3912926	77355	-1		26	141			161			10.00				139	7				130	
3912927	77355	-1		48	228			155			8.29				169	16				180	
3912928	77355	-1		22	105			63	4.39						199	4				120	
3912929	77355	-1		12	200			86			9.82				98	9				77	
3912930	77355	-1		13	242			106			11.80				152	20				106	
3912931	77355	-1		15	133			76			6.36				63	-3				89	
3912932	77355	-1		-3	84			86			7.55				19	10				41	
3912933	77355	-1		4	108			56			7.61				57	34				39	
3912934	77355	-1		5	204			71			14.90				46	-3				69	
3912935	77355	-1		17	325			43			10.00				132	-3				66	
3912936	77355	-1		14	152			22			9.53				44	-3				63	
3912937	77355	-1		4	115			12			6.49				16	4				36	
3912938	77355	-1		6	124			23			7.41				15	10				41	
3912939	77355	-1		4	136			35			8.84				16	4				38	
3912940	77355	-1		6	149			27	4.80						30	7				48	
3912941	77355	-1		10	420			24	2.45						40	22				76	
3912942	77355	-1		16	224			63			9.74				48	11				90	
3912943	77355	-1		20	694			58			8.54				104	12				110	
3912944	77355	-1		18	210			23			5.16				79	26				169	
3912945	77355	-1		4	118			14	1.12						11	54				38	
3912946	77355	-1		16	241			71			13.60				77	29				104	
3912947	77355	-1		8	249			111			8.00				109	16				57	
3912948	77355	-1		5	298			124			16.90				65	21				73	
3912949	77355	-1		3	232			86			14.30				81	23				95	
3912950	77355	-1		10	196			46			6.66				80	114				53	
3912951	77355	-1		-3	151			66			9.54				23	33				24	
3912952	77355	-1		-3	141			64			12.00				21	18				38	
3912953	77355	-1		-3	60			28	1.11						9	22				17	
3912954	77355	-1		4	385			123			15.50				54	8				204	
3912955	77355	-1		-3	225			82			13.50				30	7				46	
3912956	77355	-1		-3	400			119			7.07				80	20				21	
3912957	77355	-1		15	168			40			7.33				88	55				165	

305161

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 SI
3912958	77355	366800	5365950	43/92	VAUDEAU	SA	1.8	B/C		PV	Gritty Ccy	Water at 1.5 m	20
3912959	77355	366225	5366150	43/92	VAUDEAU	SA	1.0	C	R?	OV	Ccy with rock fragments. Gritty	Ssh Sss and qtz rock fragments	20
3912960	77355	366200	5366150	43/92	VAUDEAU	SA	0.8	C	R/T	OV	Gritty Ccy	N Gabbro/Msl and V Sss	20
3912961	77355	366175	5366150	43/92	VAUDEAU	SA	1.1	C	R/T	V	Ccy with V Sss fragments	Qtz with N shale	70
3912962	77355	366150	5366150	43/92	VAUDEAU	SA	0.8	B/C	R	V	Ccy with V Sss fragments		60
3912963	77355	366125	5366150	43/92	VAUDEAU	SA	0.8	C	R/T	VO	Ccy with rock fragments	Qtz with V Sss	20
3912964	77355	366100	5366150	43/92	VAUDEAU	SA	0.6	B	R	LOV	Gritty Ccy	Creek cross at 536095E	20
3912965	77355	366475	5366150	43/92	VAUDEAU	SA	0.8	B	R	PB	Ccy		10
3912966	77355	366500	5366150	43/92	VAUDEAU	SA	1.0	B	R	OV			10
3912967	77355	366525	5366150	43/92	VAUDEAU	SA	0.4	B	R	OV	Ccy & Sss fragments	Creek at 6515E	30
3912968	77355	366550	5366150	43/92	VAUDEAU	SA	0.9	C	R	GV	Ccy & rock fragments	Qtz, green and black Ssh	20
3912969	77355	366575	5366150	43/92	VAUDEAU	SA	0.8	B/C	R	GV	Ccy & rock fragments		5
3912970	77355	366600	5366150	43/92	VAUDEAU	SA	0.6	B/C	R	V	Ccy & rock fragments	Green Sss	10
3912971	77355	366625	5366150	43/92	VAUDEAU	SA	0.3	B	R/T	G	Ccy & rock fragments	Qtz & lgb	10
3912972	77355	366650	5366150	43/92	VAUDEAU	SA	0.5	B/C	R/T	V	Ccy & rock fragments	Qtz & black Ssh	20
3912973	77355	366675	5366150	43/92	VAUDEAU	SA	0.6	B/C	T?	OV	Ccy & rock fragments		10
3912974	77355	366700	5366150	43/92	VAUDEAU	SA	0.7	B/C	R	V	Ccy & qtz		10
3912975	77355	366725	5366150	43/92	VAUDEAU	SA	0.7	B	R	VY	Ccy & Sw		10
3912976	77355	366750	5366150	43/92	VAUDEAU	SA	0.3	B	T		Ccy & qtz		3
3912977	77355	366775	5366150	43/92	VAUDEAU	SA	0.4	B	R	N	Sbs		2
3912978	77355	366800	5366150	43/92	VAUDEAU	SA	2.1	B	R	O	Friable Ccy		3
3912979	77355	366150	5367700	43/92	NORTH CUNI	SA	0.4	B/C	R/T	O	Ccy & Qtz, P Ssh & lgb?		20
3912980	77355	366175	5367700	43/92	NORTH CUNI	SA	2.1	B	R	O	Ccy	On slight hill	10
3912981	77355	366200	5367700	43/92	NORTH CUNI	SA	0.7	B	R	B	Ccy		10
3912982	77355	366225	5367700	43/92	NORTH CUNI	SA	0.9	B	R?	VI'B	Ccy & Qtz & Sss rock fragments		10
3912983	77355	366250	5367700	43/92	NORTH CUNI	SA	0.9	B	R	GO	Ccy		20
3912984	77355	366275	5367700	43/92	NORTH CUNI	SA	0.9	B	R	O	Ccy		5
3912985	77355	366300	5367700	43/92	NORTH CUNI	SA	0.4	B/C	R	VO	Ccy & lgb? rock fragments		40
3912986	77355	366310	5367700	43/92	NORTH CUNI	SA	0.3	B	R?	O	Ccy & qtz fragments		833
3912987	77355	366320	5367700	43/92	NORTH CUNI	SA	1.1	B	R	O	Ccy		10
3912988	77355	366330	5367700	43/92	NORTH CUNI	SA	0.7	B	R	O	Ccy	Near road	10
3912989	77355	366340	5367700	43/92	NORTH CUNI	SA	1.0	B	R	OP	Ccy & P Msl		20
3912990	77355	366350	5367700	43/92	NORTH CUNI	SA	1.4	B/C	R	O	Ccy		10
3912991	77355	366360	5367700	43/92	NORTH CUNI	SA	0.8	B	R	O	Ccy		10
3912992	77355	366370	5367700	43/92	NORTH CUNI	SA	2.1	B	R	OV	Ccy		10
3912993	77355	366380	5367700	43/92	NORTH CUNI	SA	1.3	B	R	OV	Ccy		
3912994	77355	366390	5367700	43/92	NORTH CUNI	SA	1.4	B/C	R	OV	Ccy & V Sss fragments		
3912995	77355	366400	5367700	43/92	NORTH CUNI	SA	0.7	B	R	O	Ccy		
3912996	77355	366410	5367700	43/92	NORTH CUNI	SA	0.3	B/C	R	V	Ccy & V Sss		
3912997	77355	366420	5367700	43/92	NORTH CUNI	SA	0.6	B/C	R	V	Ccy & V Sss		
3912998	77355	366430	5367700	43/92	NORTH CUNI	SA	0.4	C	R	V	V Ssh	Fresh bedrock	
3912999	77355	366440	5367700	43/92	NORTH CUNI	SA	0.7	C	R	V	V Sss	Bedrock?	
3913000	77355	366450	5367700	43/92	NORTH CUNI	SA	0.3	B/C	R	B	Ccy & V Sss		
3753301	77359	366475	5367700	43/92	NORTH CUNI	SA	0.3	C	R	VB	Cco with Ssh		14
3753302	77359	366500	5367700	43/92	NORTH CUNI	SA	0.7	C	R	B	Cco with Ssh/Sss & some qtz Cg		11
3753303	77359	366525	5367700	43/92	NORTH CUNI	SA	0.4	B/C	R/T	B	Cco with Ssh/Sss & some qtz Cg		14
3753304	77359	366550	5367700	43/92	NORTH CUNI	SA	0.4	B	R/T	BO	Ccy	Compact dry	14
3753305	77359	366575	5367700	43/92	NORTH CUNI	SA	0.3	B	R/T	LB	Ccy	Compact dry	10
3753306	77359	366600	5367700	43/92	NORTH CUNI	SA	0.6	B/C	R/T	OB	Ccy with RF	On track	14

305162

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	Ag ppm GA140 1	Au ppm GG316 0.005	Co ppm GA140 3	Cr ppm GA140 7	% GX401 0.01	% GX404 0.01	Cu ppm GA140 2	Fe % GA140 0.01	% GA140 0.1	% GA104 0.01	Mn ppm GA140 3	% GA140 0.1	% GA104 0.01	Ni ppm GA140 3	Pb ppm GA140 3	% GA104 0.01	Pd ppm GG316 0.005	Pt ppm GG316 0.05	Zn ppm GA140 2	Zn % GA104 0.01
3912958	77355	-1		14	164			57			5.14				130	42				97	
3912959	77355	-1		19	1127			64			6.63				109	20				130	
3912960	77355	-1		27	620			53	4.39						116	12				155	
3912961	77355	-1		41	487			67	4.51						127	9				211	
3912962	77355	-1		14	864			44			6.24				60	14				96	
3912963	77355	-1		15	475			64			9.64				81	28				103	
3912964	77355	-1		17	746			68			9.70				91	22				101	
3912965	77355	-1		14	252			81			6.89				75	22				94	
3912966	77355	-1		8	147			30	3.80						63	22				62	
3912967	77355	-1		9	583			38			7.90				53	9				68	
3912968	77355	-1		15	633			39	3.08						77	24				115	
3912969	77355	-1		5	896			28	2.66						24	112				85	
3912970	77355	-1		13	748			27	2.80						35	265				111	
3912971	77355	-1		4	614			25	1.41						13	32				59	
3912972	77355	-1		25	249			41			6.40				72	39				207	
3912973	77355	-1		13	197			28			5.49				42	44				126	
3912974	77355	-1		6	164			19	2.74						38	74				81	
3912975	77355	-1		4	198			20	1.88						38	291				97	
3912976	77355	-1		-3	278			37	0.86						14	176				34	
3912977	77355	-1		7	185			48	3.05						22	436				75	
3912978	77355	-1		-3	266			77	2.39						81	99				30	
3912979	77355	-1		3	190			15	3.77						11	48				62	
3912980	77355	-1		11	501			147			8.19				162	152				198	
3912981	77355	-1		10	217			24			8.30				40	13				97	
3912982	77355	-1		17	150			41	4.10						62	37				151	
3912983	77355	-1		31	225			65			8.55				157	92				236	
3912984	77355	-1		-3	193			116			5.24				25	927				43	
3912985	77355	-1		3	308			382			9.40				88	40				90	
3912986	77355	-1		6	322			364			14.20				267	36				63	
3912987	77355	-1		3	160			128			10.10				71	23				85	
3912988	77355	-1		-3	260			83			12.30				79	12				122	
3912989	77355	-1		-3	250			95			19.60				55	22				235	
3912990	77355	-1		3	175			110			16.00				52	63				150	
3912991	77355	-1		3	293			78			10.50				80	47				62	
3912992	77355	-1		26	269			144			9.39				204	20				174	
3912993	77355	-1		-3	102			28	2.56						31	26				39	
3912994	77355	-1		-3	79			13	1.87						16	70				24	
3912995	77355	-1		3	105			13	3.47						13	25				25	
3912996	77355	-1		-3	144			8	1.46						7	16				18	
3912997	77355	2		-3	91			12	0.85						9	25				20	
3912998	77355	-1		16	118			63			8.54				53	7				111	
3912999	77355	-1		10	158			32	3.63						33	48				66	
3913000	77355	-1		10	183			17	4.80						34	9				72	
3753301	77359	-1		6	154			33	2.57						25	12				55	
3753302	77359	-1		-3	89			25	1.54						11	17				56	
3753303	77359	-1		12	106			23	4.06						35	25				80	
3753304	77359	-1		3	144			7	3.40						14	19				36	
3753305	77359	-1		-3	108			6	1.58						6	12				24	
3753306	77359	-1		10	116			17			9.38				38	13				63	

305163

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 St
3753307	77359	366625	5367700	43/92	NORTH CUNI	SA	0.3	B	T?	O	Ccy	Compact dry	11
3753308	77359	366650	5367700	43/92	NORTH CUNI	SA	1.9	B/C	R	NG	Ccy with Ds Py		6
3753309	77359	366675	5367700	43/92	NORTH CUNI	SA	0.3	B	T?	B	Ccy	Compact dry	6
3753310	77359	366700	5367700	43/92	NORTH CUNI	SA	0.3	C	R	N	Cbs with graphitic Sbs		7
3753311	77359	366725	5367700	43/92	NORTH CUNI	SA	0.2	A/C	T/R	LBO	We Ssh with soil		6
3753312	77359	366750	5367700	43/92	NORTH CUNI	SA	0.3	A/C	R?	NG	Compact Cbs with Sbs		13
3753313	77359	366775	5367700	43/92	NORTH CUNI	SA	0.2	A	R/T	GB	Cs & Ccy		6
3753314	77359	366800	5367700	43/92	NORTH CUNI	SA	0.2	A	R/T	B	Cg		52
3753315	77359	366150	5367850	43/92	NORTH CUNI	SA	0.4	B		O	Hard Ccy		17
3753316	77359	366175	5367850	43/92	NORTH CUNI	SA	0.4	A/B	R/T	O	Ccy with RF		19
3753317	77359	366200	5367850	43/92	NORTH CUNI	SA	0.2	A/C	R	B	Cco with We Igb		52
3753318	77359	366225	5367850	43/92	NORTH CUNI	SA	0.6	B		O	Ccy	Dry	20
3753319	77359	366250	5367850	43/92	NORTH CUNI	SA	0.4	B		O	Cco with Cg		20
3753320	77359	366275	5367850	43/92	NORTH CUNI	SA	0.0		R	LG	Ssh & Sw	From old coastline	20
3753321	77359	366300	5367850	43/92	NORTH CUNI	SA	0.0		R	NO	Clt	Out of creek	19
3753322	77359	366310	5367850	43/92	NORTH CUNI	SA	0.4	C	R	V	Gritty Ccy		9
3753323	77359	366320	5367850	43/92	NORTH CUNI	SA	0.5	B	R/T	P	Cg Ccy with Ssh		25
3753324	77359	366330	5367850	43/92	NORTH CUNI	SA	0.9	C	R	VH	Gritty Ccy		17
3753325	77359	366340	5367850	43/92	NORTH CUNI	SA	0.5	C	R	RP	Clt		25
3753326	77359	366350	5367850	43/92	NORTH CUNI	SA	0.4	B	R/T	BV	Ccy with Bx fine grained dk rock, qtz & Ccl		30
3753327	77359	366360	5367850	43/92	NORTH CUNI	SA	0.3	B	R/T	B	Clt with Ssh frags and gritty Ccy		19
3753328	77359	366370	5367850	43/92	NORTH CUNI	SA	0.2	C	R	V	Ccy with Lm Ssh up to 15 mm long		7
3753329	77359	366380	5367850	43/92	NORTH CUNI	SA	0.4	B/C	R/T	V	Gritty Ccy with Sss fragments		4
3753330	77359	366390	5367850	43/92	NORTH CUNI	SA	0.4	B/C	R/T	V	Gritty Ccy with Clt & V Ssh		10
3753331	77359	366400	5367850	43/92	NORTH CUNI	SA	0.3	B	R/T	MON	Clt		19
3753332	77359	366410	5367850	43/92	NORTH CUNI	SA	1.3	C	R	V	Gritty Ccy with Ssh		17
3753333	77359	366420	5367850	43/92	NORTH CUNI	SA	0.8	C	R	V	Gritty Ccy with Ssh		19
3753334	77359	366430	5367850	43/92	NORTH CUNI	SA	1.8	C	R	V	Gritty Ccy with Sw		49
3753335	77359	366440	5367850	43/92	NORTH CUNI	SA	1.1	C	R/T	V	Gritty Ccy with V & P Ssh and qtz		14
3753336	77359	366450	5367850	43/92	NORTH CUNI	SA	1.6	C	R	VP	Ccy with Ssh		14
3753337	77359	366460	5367850	43/92	NORTH CUNI	SA	1.5	C	R	VP	Gritty Ccy		16
3753338	77359	366470	5367850	43/92	NORTH CUNI	SA	0.9	C	R	V	Gritty Ccy with MVW rock Igb?		14
3753339	77359	366480	5367850	43/92	NORTH CUNI	SA	0.4	C	R	V	Ccy with Ssh		6
3753340	77359	366490	5367850	43/92	NORTH CUNI	SA	0.6	C	R	V	Ccy with Ssh		10
3753341	77359	366500	5367850	43/92	NORTH CUNI	SA	0.5	C	R	V	Ccy	Hard	26
3753342	77359	366510	5367850	43/92	NORTH CUNI	SA	0.4	A/B	T?	B	Moist soil with qtz Cg		17
3753343	77359	366520	5367850	43/92	NORTH CUNI	SA	0.1	C		BN	Clt		30
3753344	77359	366530	5367850	43/92	NORTH CUNI	SA	0.4	B		B	Soil		11
3753345	77359	366540	5367850	43/92	NORTH CUNI	SA	0.5	B		A/B	Gritty soil. Qtz Cg		5
3753346	77359	366550	5367850	43/92	NORTH CUNI	SA	0.3	C	R/T	G	Sandy soil with some V RF		8
3753347	77359	366575	5367850	43/92	NORTH CUNI	SA	0.3	B/C	T/R	BV	Gritty soil with Ssh & some qtz Cg		6
3753348	77359	366600	5367850	43/92	NORTH CUNI	SA	0.3	C	R	V	Ssh rock rare pale Y sulphides. Some Cg		10
3753349	77359	366625	5367850	43/92	NORTH CUNI	SA	1.1	B	R/T	OB	Ccy	Hard to penetrate	15
3753350	77359	366650	5367850	43/92	NORTH CUNI	SA	1.0	B	R/T	OR	Ccy		14
3753351	77359	366675	5367850	43/92	NORTH CUNI	SA	0.4	B	T	B	Ccy with qtz Cg		30
3753352	77359	366700	5367850	43/92	NORTH CUNI	SA	0.9	B	R	B	Ccy with Cg		20
3753353	77359	366725	5367850	43/92	NORTH CUNI	SA	0.3	B/C	R	LB	Cco with We Ssh		16
3753354	77359	366750	5367850	43/92	NORTH CUNI	SA	0.4	B/C	R	DG	Cco with G Ssh		11
3753355	77359	366775	5367850	43/92	NORTH CUNI	SA	0.3	C	R	DG	Cco with DG Ssh	Several attempts	9

305164

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	Ag ppm GA140	Au ppm GG316	Co ppm GA140	Cr ppm GA140	% GX401	% GX404	Cu ppm GA140	Fe ppm GA140	% GA140	% GA104	% GA104	Mn ppm GA140	% GA140	% GA104	Ni ppm GA140	Pb ppm GA140	% GA104	Pd ppm GG316	Pt ppm GG316	Zn ppm GA140	Zn ppm GA104
		1	0.005	3	7	0.01	0.01	2	0.01	0.1	0.01	0.01	3	0.1	0.01	3	3	0.01	0.005	0.05	2	0.01
3753307	77359	-1		-3	90			14	2.61							5	15				21	
3753308	77359	-1		23	102			195	2.46							76	60				41	
3753309	77359	-1		-3	76			7	1.19							16	17				15	
3753310	77359	-1		-3	69			30	1.65							17	119				29	
3753311	77359	-1		6	214			62	3.55							78	45				113	
3753312	77359	-1		22	322			100	4.57							81	91				484	
3753313	77359	-1		-3	527			43	1.63							17	92				56	
3753314	77359	-1		6	214			25	3.34							29	119				92	
3753315	77359	-1		13	185			58				10.60				34	136				124	
3753316	77359	-1		12	103			41				10.90				20	269				361	
3753317	77359	-1		19	121			29				7.07				42	77				183	
3753318	77359	-1		5	197			19				9.14				29	66				135	
3753319	77359	-1		-3	200			19				8.88	98			13	55				52	
3753320	77359	-1		24	83			28				7.56	568			87	15				138	
3753321	77359	-1		114	94			27				11.50			1.25	285	26				806	
3753322	77359	-1		160	200			77				6.01	1223			315	147				1341	
3753323	77359	-1		61	159			74				10.00	16700			184	119				764	
3753324	77359	-1		53	101			5				13.30	548			265	-3				666	
3753325	77359	3		210	168			203				21.90			17.62	216	1648				2812	
3753326	77359	-1		70	66			116				10.50			6.17	109	276				939	
3753327	77359	18		44	62			379				12.20			5.76	167	6100				1500	
3753328	77359	-1		62	150			79	3.01				546			157	39				910	
3753329	77359	-1		32	410			102	2.92				490			146	31				798	
3753330	77359	2		26	270			121	3.47				1379			97	46				705	
3753331	77359	3		478	41			352	2.48						30.50	376	30				1128	
3753332	77359	-1		46	340			94				8.22	738			141	93				586	
3753333	77359	-1		45	128			95				6.25	1203			171	220				347	
3753334	77359	9		52	161			493				16.80	13600			312	7				910	
3753335	77359	-1		52	169			112				7.12	975			170	273				490	
3753336	77359	-1		70	154			111				5.78	510			231	242				511	
3753337	77359	-1		55	137			92				5.66	521			132	172				470	
3753338	77359	-1		38	195			134	4.20				520			226	151				323	
3753339	77359	-1		20	166			36	2.49				280			52	36				164	
3753340	77359	-1		8	129			37	2.62				362			29	29				89	
3753341	77359	-1		142	851			175				9.44	573			770	13				837	
3753342	77359	-1		7	118			34				11.00	259			19	78				110	
3753343	77359	-1		34	68			12				50.04	25100			10	81				176	
3753344	77359	-1		18	137			58	4.86				622			63	176				349	
3753345	77359	-1		-3	105			21	0.96				76			9	212				48	
3753346	77359	-1		3	93			25	1.07				78			9	37				30	
3753347	77359	-1		3	100			28	1.66							11	37				35	
3753348	77359	-1		5	67			31	2.48							26	119				60	
3753349	77359	-1		8	103			37				9.46				48	15				80	
3753350	77359	-1		-3	166			84				10.60				32	11				31	
3753351	77359	-1		10	149			26				9.42				39	6				48	
3753352	77359	-1		9	97			19				11.00				42	7				68	
3753353	77359	-1		6	94			15				5.71				20	18				38	
3753354	77359	-1		8	123			73	3.68							40	250				96	
3753355	77359	-1		3	98			27	1.91							21	36				40	

305165

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10 ⁻⁵ SI
3753356	77359	366800	5367850	43/92	NORTH CUNI	SA	0.3	B/C	R/T	DG	Cco Cg	Several attempts	7
3753357	77359	366825	5367850	43/92	NORTH CUNI	SA	0.4	B	T	G	Qtz Cg with some Ssh		8
3753358	77359	366850	5367850	43/92	NORTH CUNI	SA	0.4	C	R	DG	Ccy & Cbs with Sbs		6
3753359	77359	366825	5367700	43/92	NORTH CUNI	SA	1.1	B/C	R	O	Ccy with We Ssh	Very hard. Near bedrock?	16
3753360	77359	366850	5367700	43/92	NORTH CUNI	SA	2.1	B	R/T	MOY	Ccy		12
3753361	77359	366150	5367500	43/92	NORTH CUNI	SA	1.8	B		BW	Sandy Ccy		11
3753362	77359	366175	5367500	43/92	NORTH CUNI	SA	1.5	B		B	Ccy		20
3753363	77359	366200	5367500	43/92	NORTH CUNI	SA	1.5	B		OB	Ccy		20
3753364	77359	366225	5367500	43/92	NORTH CUNI	SA	1.0	B		O	Ccy		17
3753365	77359	366250	5367500	43/92	NORTH CUNI	SA	1.1	B		BV	Ccy		24
3753366	77359	366270	5367500	43/92	NORTH CUNI	SA	0.2	B		G	Gritty Ccy	Next to road	12
3753367	77359	366280	5367500	43/92	NORTH CUNI	SA	0.8	B		OB	Ccy	Dry	12
3753368	77359	366290	5367500	43/92	NORTH CUNI	SA	0.1	B	R/T	NOB	Csp		240
3753369	77359	366300	5367500	43/92	NORTH CUNI	SA	1.0	B		V	Ccy		24
3753370	77359	366310	5367500	43/92	NORTH CUNI	SA	0.5	B/C	R/T	VB	Ccy with Cg & Ssh fragments		18
3753371	77359	366320	5367500	43/92	NORTH CUNI	SA	0.4	C	R	V	Cobbles of Igb with Ds Py	Two attempts	25
3753372	77359	366330	5367500	43/92	NORTH CUNI	SA	0.7	C	R	B	Ccy with VB Ssh		16
3753373	77359	366340	5367500	43/92	NORTH CUNI	SA	0.3	B	R	VP	Ssh. Rounded P cobbles		20
3753374	77359	366350	5367500	43/92	NORTH CUNI	SA	0.4	C	R	VG	Ssh with Ccy		14
3753375	77359	366360	5367500	43/92	NORTH CUNI	SA	0.5	B	T	V	Sw cobbles up to 5cm		40
3753376	77359	366370	5367500	43/92	NORTH CUNI	SA	0.2	B/C	R	V	Sw angular		24
3753377	77359	366380	5367500	43/92	NORTH CUNI	SA	0.4	B/C	T	V	Cobbles of Igb	May not have travelled far	20
3753378	77359	366390	5367500	43/92	NORTH CUNI	SA	0.4	C	R	VG	Ssh with some minor Cg		13
3753379	77359	366400	5367500	43/92	NORTH CUNI	SA	1.0	C	R	V	Gritty Ccy with Ssh		22
3753380	77359	366410	5367500	43/92	NORTH CUNI	SA	1.2	C	R	VPN	Gritty Ccy with Ssh		23
3753381	77359	366420	5367500	43/92	NORTH CUNI	SA	0.5	C	R	VP	Ccy with Sw		14
3753382	77359	366430	5367500	43/92	NORTH CUNI	SA	0.7	C	R	VP	Ccy with Sw		10
3753383	77359	366440	5367500	43/92	NORTH CUNI	SA	1.1	C	R	VPN	Ssh & Sw		28
3753384	77359	366450	5367500	43/92	NORTH CUNI	SA	0.7	C	R	VP	Ccy with DG Ssh		15
3753385	77359	366475	5367500	43/92	NORTH CUNI	SA	1.2	C	R	V	Ccy with Sw		19
3753386	77359	366500	5367500	43/92	NORTH CUNI	SA	1.0	C	R	NG	Gritty Ccy with Ds Py		19
3753387	77359	366525	5367500	43/92	NORTH CUNI	SA	1.0	C	R	V	Ccy with Ssh		13
3753388	77359	366550	5367500	43/92	NORTH CUNI	SA	0.7	C	R	N	Sbs with Ds Py		9
3753389	77359	366575	5367500	43/92	NORTH CUNI	SA	0.8	C	R	V	Ccy with Ssh		17
3753390	77359	366600	5367500	43/92	NORTH CUNI	SA	0.5	C	R	V	Gritty Ccy with Ssh		15
3753391	77359	366625	5367500	43/92	NORTH CUNI	SA	1.1	C	R	VG	Ccy with Ssh		13
3753392	77359	366650	5367500	43/92	NORTH CUNI	SA	0.8	C	R	VN	Ccy with Sbs & Ssh		22
3753393	77359	366675	5367500	43/92	NORTH CUNI	SA	0.9	B/C	R	VB	Ccy with Ssh		20
3753394	77359	366700	5367500	43/92	NORTH CUNI	SA	1.4	C	R	NV	Gritty Ccy with Ssh		50
3753395	77359	366725	5367500	43/92	NORTH CUNI	SA	0.8	C	R	NVB	Gritty Ccy with Ssh		41
3753396	77359	366750	5367500	43/92	NORTH CUNI	SA	1.6	C	R	V	Gritty Ccy		15
3753397	77359	366775	5367500	43/92	NORTH CUNI	SA	1.6	C	R	V	Gritty Ccy with Ssh		18
3753398	77359	366800	5367500	43/92	NORTH CUNI	SA	1.3	B/C		WV	Ccy		6
3753399	77359	366825	5367500	43/92	NORTH CUNI	SA	0.5	C	R	DG	Gritty Ccy with Ssh		19
3753400	77359	366850	5367500	43/92	NORTH CUNI	SA	0.4	C	R/T	N	Ccy with Sbs		90
3987501	77359	366250	5367350	43/92	NORTH CUNI	SA	1.1	B/C	R?	VB	Ccy	Hard to penetrate	23
3987502	77359	366275	5367350	43/92	NORTH CUNI	SA	1.0	C	R	VB	Ccy with Ssh	Hard to penetrate	15
3987503	77359	366300	5367350	43/92	NORTH CUNI	SA	0.9	C	R	VP	Ccy with Ssh	Hard to penetrate	15
3987504	77359	366325	5367350	43/92	NORTH CUNI	SA	1.5	B/C	R/T	VB	Gritty Ccy		12

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	Ag ppm GA140	Au ppm GG316	Co ppm GA140	Cr ppm GA140	% GX401	% GX404	Cu ppm GA140	Fe % GA140	% GA140	% GA104	Mn ppm GA140	% GA140	% GA104	Ni ppm GA140	Pb ppm GA140	% GA104	Pd ppm GG316	Pt ppm GG316	Zn ppm GA140	Zn % GA104
		1	0.005	3	7	0.01	0.01	2	0.01	0.1	0.01	3	0.1	0.01	3	3	0.01	0.005	0.05	2	0.01
3753356	77359	-1		4	100			33	2.24						24	63				47	
3753357	77359	-1		3	61			45	0.88						20	122				47	
3753358	77359	-1		-3	74			41	1.06						14	134				37	
3753359	77359	-1		10	163			82			16.80				46	64				108	
3753360	77359	-1		7	211			98			12.10				52	73				123	
3753361	77359	-1		3	338			50			8.80				34	18				38	
3753362	77359	-1		4	151			70			16.80				26	9				67	
3753363	77359	-1		3	143			69			13.10				27	190				92	
3753364	77359	-1		21	536			190			12.20				270	58				201	
3753365	77359	-1		12	213			79			15.10				66	57				88	
3753366	77359	-1		3	147			19	1.30			78			7	21				22	
3753367	77359	-1		7	117			14			5.44	202			27	18				35	
3753368	77359	-1		7	527			166			14.80	308			287	58				52	
3753369	77359	-1		10	185			236			9.04	523			138	35				72	
3753370	77359	-1		22	225			67	4.33			532			86	16				98	
3753371	77359	-1		94	944			246			11.20	728			632	11				167	
3753372	77359	-1		41	136			38			5.45	451			104	4				123	
3753373	77359	-1		26	212			65			5.68	493			78	5				126	
3753374	77359	-1		9	654			54	3.34			194			34	8				83	
3753375	77359	-1		34	127			43			8.16	454			99	18				232	
3753376	77359	-1		26	149			39			7.96	535			78	9				106	
3753377	77359	-1		34	142			119			6.90				104	179				236	
3753378	77359	-1		11	131			92	4.13						52	22				91	
3753379	77359	-1		104		2.33	2.33	36	4.97						327	105				411	
3753380	77359	-1		71		2.10	2.10	35			5.49				282	61				344	
3753381	77359	-1		36	316			61	4.50						89	18				183	
3753382	77359	-1		15	117			28	2.55						46	13				79	
3753383	77359	-1		86		1.87	1.87	41			6.68				439	46				364	
3753384	77359	-1		57	1725			73			5.12				123	186				339	
3753385	77359	-1		124	1678			88			11.00				201	9				315	
3753386	77359	-1	-0.005	48	1076			77			6.64	196			138	24		-0.005	-0.05	202	
3753387	77359	-1	-0.005	67	735			68	4.20			251			155	24		-0.005	-0.05	251	
3753388	77359	-1	-0.005	13	1163			44	2.46			151			47	42		-0.005	-0.05	148	
3753389	77359	-1	-0.005	25	768			44			7.46	557			85	46		-0.005	-0.05	161	
3753390	77359	-1	-0.005	48	2019			63			5.59	526			134	111		-0.005	-0.05	521	
3753391	77359	-1	-0.005	49	2505			70	2.45			210			109	97		-0.005	-0.05	239	
3753392	77359	-1	-0.005	90		2.93	2.93	81			4.37	441			250	213		-0.005	0.06	544	
3753393	77359	-1	0.009	301		1.78	1.78	47			4.61	422			844	205		-0.005	-0.05	592	
3753394	77359	-1	-0.005	168		2.93	2.93	80			5.88	1254			589	144		0.008	-0.05	425	
3753395	77359	-1	-0.005	126		2.08	2.08	95			9.13	517			508	104		0.006	-0.05	593	
3753396	77359	-1	-0.005	183	4164			86	3.20			228			494	278		0.007	-0.05	563	
3753397	77359	-1	-0.005	107	1142			60			7.97	516			268	79		-0.005	-0.05	274	
3753398	77359	-1	-0.005	3	90			36	1.41			87			29	38		-0.005	-0.05	33	
3753399	77359	-1	-0.005	24	212			99			8.70	397			46	68		-0.005	-0.05	645	
3753400	77359	-1	-0.005	15	156			54	4.78			197			35	20		-0.005	-0.05	165	
3987501	77359	-1		34	155			52			8.76				84	-3				182	
3987502	77359	-1		26	157			41			6.08				74	-3				107	
3987503	77359	-1		26	156			40			5.41				75	5				121	
3987504	77359	-1		10	188			405			11.00				116	1499				567	

305167

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL.	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10.5 S
3987505	77359	366350	5367350	43/92	NORTH CUNI	SA	1.9	B/C	R/T	V	Ccy		16
3987506	77359	366375	5367350	43/92	NORTH CUNI	SA	0.8	C	R	V	Mainly Ssh with Ccy		10
3987507	77359	366400	5367350	43/92	NORTH CUNI	SA	1.0	C	R	V	Mainly Ssh with Ccy		13
3987508	77359	366425	5367350	43/92	NORTH CUNI	SA	0.8	B	R/T	O	Ccy		18
3987509	77359	366450	5367350	43/92	NORTH CUNI	SA	0.6	C	R	LV	Mainly Ssh with Ccy		7
3987510	77359	366400	5366000	43/92	VAUDEAU	SA	0.9	C	R	V	Ccy with Ssh		17
3987511	77359	366390	5366000	43/92	VAUDEAU	SA	0.1	C	R	VB	Ccy with Ssh		24
3987512	77359	366380	5366000	43/92	VAUDEAU	SA	0.4	C	R/T	V	Ccy with Ssh & 1 lgb frag with Ds		17
3987513	77359	366370	5366000	43/92	VAUDEAU	SA	1.0	C	T	VN	lgb with minor qtz Cg		28
3987514	77359	366360	5366000	43/92	VAUDEAU	SA	0.6	C	R	V	Ccy with We lgb		23
3987515	77359	366350	5366000	43/92	VAUDEAU	SA	1.0	B	R/T	OB	Ccy	Hard	13
3987516	77359	366340	5366000	43/92	VAUDEAU	SA	0.6	B	R/T	O	Ccy	Compact	18
3987517	77359	366330	5366000	43/92	VAUDEAU	SA	0.4	B	R/T	OV	Ccy		15
3987518	77359	366320	5366000	43/92	VAUDEAU	SA	0.6	H	R/T	LB	Ccy	Compact	17
3987519	77359	366310	5366000	43/92	VAUDEAU	SA	0.4	B/C	R	VB	Ccy with some Ssh		11
3987520	77359	366300	5366000	43/92	VAUDEAU	SA	0.6	B/C	R/T	VB	Ccy with Ssh & qtz Cg		13
3987521	77359	366300	5365900	43/92	VAUDEAU	SA	1.1	B	R/T	WG	Ccy		13
3987522	77359	366325	5365900	43/92	VAUDEAU	SA	0.3	B		VB	Ccy		20
3987523	77359	366350	5365900	43/92	VAUDEAU	SA	0.7	B	R/T	OV	Ccy		17
3987524	77359	366360	5365900	43/92	VAUDEAU	SA	1.4	B/C		BV	Ccy	Hard	16
3987525	77359	366370	5365900	43/92	VAUDEAU	SA	0.7	B	R/T	OB	Ccy	Very compact	18
3987526	77359	366380	5365900	43/92	VAUDEAU	SA	0.3	B		OB	Ccy	Very compact	20
3987527	77359	366390	5365900	43/92	VAUDEAU	SA	0.5	B	R/T	OB	Ccy with rock fragments		9
3987528	77359	366410	5365900	43/92	VAUDEAU	SA	0.9	C	R	VB	Gritty Ccy		9
3987529	77359	366420	5365900	43/92	VAUDEAU	SA	1.1	C	R	RNY	Ccy with Cst		13
3987530	77359	366430	5365900	43/92	VAUDEAU	SA	1.1	B/C	R/T	O	Ccy with Cst		24
3987531	77359	366440	5365900	43/92	VAUDEAU	SA	0.6	B	R/T	OB	Ccy		22
3987532	77359	366450	5365900	43/92	VAUDEAU	SA	0.3	B		B	Ccy with minor qtz Cg		18
3987533	77359	366475	5365900	43/92	VAUDEAU	SA	1.0	B		O	Ccy	Compacted	17
3987534	77359	366500	5365900	43/92	VAUDEAU	SA	1.0	B	T	OLB	Ccy with qtz Cg		11
3987535	77361	366210	5365950	43/92	VAUDEAU	SA	2.0	B	R	LV/RB	Ccy	Clay probably derived from volcanoclastic sediment.	19
3987536	77361	366220	5365950	43/92	VAUDEAU	SA	0.8	B	R	LV/O	Ccy	Strongly weathered Ssw?	40
3987537	77361	366230	5365950	43/92	VAUDEAU	SA	0.4	B/C	R	RB	CcySsh	R.F.'s present.	25
3987538	77361	366240	5365950	43/92	VAUDEAU	SA	1.4	B	R	DBO	Ccy	Weakly mottled clay, no R.F.'s	15
3987539	77361	366200	5366000	43/92	VAUDEAU	SA	0.9	B	R	LV/O	Ccy	Limonitic clay.	17
3987540	77361	366210	5366000	43/92	VAUDEAU	SA	1.4	B	R	OB	Ccy	Limonitic clay.	20
3987541	77361	366220	5366000	43/92	VAUDEAU	SA	1.3	B	R	YW	Ccy	White clay marbled with limonitic clay.	10
3987542	77361	366230	5366000	43/92	VAUDEAU	SA	0.8	B	R	ML.OV	Ccy		21
3987543	77361	366240	5366000	43/92	VAUDEAU	SA	0.8	B	R	B	Ccy	Lesser OV spotted clay.	20
3987544	77361	366250	5366000	43/92	VAUDEAU	SA	1.1	B	R	LOV	Ccy	Speckled clay- could be derived from weathered lgb.	30
3987545	77361	366260	5366000	43/92	VAUDEAU	SA	1.3	B/C	R	OB	CcyOvq	Minor vein qtz. R.F.'s	20
3987546	77361	366270	5366000	43/92	VAUDEAU	SA	0.9	B/C	R	OB	CcyLgh	Minor lgb R.F.'s	20
3987547	77361	366280	5366000	43/92	VAUDEAU	SA	1.6	C	R	LVG	CcyLu	Fine grained pyroxenitic R.F.'s within a gritty clay.	20
3987548	77361	366290	5366000	43/92	VAUDEAU	SA	1.0	B	R	LOG	Ccy	No R.F.'s.	20
3987549	77361	366140	5365900	43/92	VAUDEAU	SA	1.3	B	R	YB	Ccy	Limonitic.	19
3987550	77361	366150	5365900	43/92	VAUDEAU	SA	1.0	YB	R	YB	Ccy	Limonitic clay, ab. organic matter.	10
3987551	77361	366160	5365900	43/92	VAUDEAU	SA	0.6	B/C	R	YB	Ccy	Minor Sw R.F.'s	10
3987552	77361	366170	5365900	43/92	VAUDEAU	SA	0.2	C	R	DPB	SwCbs	Volcanoclastic sed.	40
3987553	77361	366180	5365900	43/92	VAUDEAU	SA	0.2	C	R	DB	SwCbs	Organic-rich soil, + R.F.'s	40

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	Ag ppm GA140 1	Au ppm GG316 0.005	Co ppm GA140 3	Cr ppm GA140 7	% GX401 0.01	% GX404 0.01	Cu ppm GA140 2	Fe % GA140 0.01	% GA140 0.1	% GA104 0.01	Mn ppm GA140 3	% GA140 0.1	% GA104 0.01	Ni ppm GA140 3	Pb ppm GA140 3	% GA104 0.01	Pd ppm GG316 0.005	Pt ppm GG316 0.05	Zn ppm GA140 2	Zn % GA104 0.01
3987505	77359	-1		102	452			217			8.48				502	-3				220	
3987506	77359	-1		16	136			53	3.79						47	10				60	
3987507	77359	-1		7	126			36	2.65						52	-3				64	
3987508	77359	-1		5	73			106			12.50				23	-3				72	
3987509	77359	-1		6	215			46	1.99						35	10				53	
3987510	77359	-1		26	242			91	4.77						95	12				174	
3987511	77359	-1		36	432			123			5.86				105	11				185	
3987512	77359	-1		13	273			48	3.55						48	55				110	
3987513	77359	-1		26	218			66			6.32				83	18				149	
3987514	77359	-1		22	376			33			5.88				87	24				121	
3987515	77359	-1		4	74			58	4.07						41	45				45	
3987516	77359	-1		10	179			29			7.83				31	22				45	
3987517	77359	-1		13	148			25	4.70						48	190				62	
3987518	77359	-1		8	119			29	1.62						74	15				39	
3987519	77359	-1		14	425			27	2.87						40	19				82	
3987520	77359	-1		16	202			25	2.96						58	38				74	
3987521	77359	-1		11	94			19	2.06						77	17				46	
3987522	77359	-1		18	155			41			6.69				56	20				71	
3987523	77359	-1		6	161			76			8.87				53	17				57	
3987524	77359	-1		17	172			51	4.72						171	25				77	
3987525	77359	-1		18	114			66			11.90				45	36				73	
3987526	77359	-1		18	116			54			8.97				62	196				98	
3987527	77359	-1		6	99			17	1.66						9	589				19	
3987528	77359	-1		6	69			16	1.43						18	272				25	
3987529	77359	-1		6	128			28			7.54				10	44				27	
3987530	77359	-1		8	359			97			16.50				29	32				71	
3987531	77359	-1		10	325			56			11.40				46	37				63	
3987532	77359	-1		5	146			26	4.58						16	14				24	
3987533	77359	-1		8	336			132			9.14				47	110				191	
3987534	77359	-1		7	151			30	1.79						40	25				67	
3987535	77361	-1		29	116			123			13.40				129	-3				126	
3987536	77361	-1		22	208			93			11.10				84	3				147	
3987537	77361	-1		14	150			34			10.60				48	4				72	
3987538	77361	-1		4	158			34			13.80				33	5				33	
3987539	77361	-1		13	229			94			14.40				56	-3				55	
3987540	77361	-1		8	281			65			19.30				45	-3				53	
3987541	77361	-1		5	46			18	3.60						39	8				41	
3987542	77361	-1		11	220			31			8.60				94	15				101	
3987543	77361	-1		24	163			19			10.00				75	23				87	
3987544	77361	-1		26	148			70			13.00				104	69				177	
3987545	77361	-1		33	586			59			11.30				394	31				99	
3987546	77361	-1		21	2699			216			10.20				376	4				102	
3987547	77361	-1		41	293			53			7.81				176	25				100	
3987548	77361	-1		30	743			44			6.59				156	21				109	
3987549	77361	-1		18	220			99			14.10				75	9				137	
3987550	77361	-1		6	152			71			11.10				25	63				60	
3987551	77361	-1		6	178			60			9.11				32	16				54	
3987552	77361	-1		44	158			79			13.20				118	4				139	
3987553	77361	-1		33	240			82			12.70				119	12				154	

305169

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL.	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 SI
3987554	77361	366190	5365900	43/92	VAUDEAU	SA	1.2	B	R	MOB	Ccy	Limonitic clay.	20
3987555	77361	366200	5365900	43/92	VAUDEAU	SA	0.7	B	R	YB	Ccy	Weathered Sw.	25
3987556	77361	366210	5365900	43/92	VAUDEAU	SA	0.3	C	R	YBV	SwCcy	Mixed RB and V graywacke Sw.	22
3987557	77361	366220	5365900	43/92	VAUDEAU	SA	0.2	C	R	B	Sw	Clayey soil, no R.F.'s	30
3987558	77361	366230	5365900	43/92	VAUDEAU	SA	1.0	B	R	LROB	Ccy		15
3987559	77361	366240	5365900	43/92	VAUDEAU	SA	1.3	B	R	OB	CcySw		20
3987560	77361	366250	5365900	43/92	VAUDEAU	SA	0.8	C	R	MOB	CcySsh	Minor shale R.F.'s.	50
3987561	77361	366260	5365900	43/92	VAUDEAU	SA	1.2	C	R	LOB	CcySsh	Green shale fragments.	22
3987562	77361	366270	5365900	43/92	VAUDEAU	SA	1.1	C	R	OB	CcySsh	Strongly weathered green shale frags.	15
3987563	77361	366280	5365900	43/92	VAUDEAU	SA	1.0	B	R	OB	Ccy	Limonitic clay.	10
3987564	77361	366290	5365900	43/92	VAUDEAU	SA	1.2	B	R	YB	Ccy	Limonitic clay.	20
3987565	77361	366310	5365900	43/92	VAUDEAU	SA	0.6	B	R	LGY	Ccy	Change in soil type from previous sample.	10
3987566	77361	366320	5365900	43/92	VAUDEAU	SA	0.8	B	R	OB/V	Ccy	Limonitic clay, green clay intercalations.	15
3987567	77361	366330	5365900	43/92	VAUDEAU	SA	0.3	C	R	LB	CcyOvq	Ab. coarse grained vein qtz present.	15
3987568	77361	366340	5365900	43/92	VAUDEAU	SA	0.6	B	R	LOG	CcyOvq	Minor qtz vein frags.	10
3987569	77361	366400	5365850	43/92	VAUDEAU	SA	0.5	B	R	LOB	CcyOvq	Quartz vein frags.	40
3987570	77361	366380	5365850	43/92	VAUDEAU	SA	0.3	B	R	YB	Ccy	Limonitic clay.	15
3987571	77361	366360	5365850	43/92	VAUDEAU	SA	0.9	B	R	OB	Ccy	Trace of speckled L.V. clay.	30
3987572	77361	366340	5365850	43/92	VAUDEAU	SA	1.1	B	R	OB/M	Ccy	Plastic mottled clay.	15
3987573	77361	366320	5365850	43/92	VAUDEAU	SA	0.6	B	R	LV	Ccy	Green Sw float nearby indicates a change in rock-type from previous sample.	20
3987574	77361	366300	5365850	43/92	VAUDEAU	SA	0.5	B	R	MOB	Ccy	Compacted clay.	20
3987575	77361	366280	5365850	43/92	VAUDEAU	SA	0.4	B	R	LOB	CcyOvq	Coarse gr. qtz frags. present.	28
3987576	77361	366260	5365850	43/92	VAUDEAU	SA	1.0	B	R/T	OB	CcySsh	Minor rounded shale R.F.'s	17
3987577	77361	366240	5365850	43/92	VAUDEAU	SA	1.5	B	R/T	MOB	CcyEb	Sub-rounded basalt? R.F.'s	15
3987578	77361	366220	5365850	43/92	VAUDEAU	SA	1.6	B	T/R	LVB	CcySsh	Rounded shale frags. within plastic compacted clay.	16
3987579	77361	366200	5365850	43/92	VAUDEAU	SA	0.4	B	R/T	LB	CcySsh	Ab. rounded shale frags, purple shale R.F.'s	45
3987580	77361	366190	5365850	43/92	VAUDEAU	SA	0.9	B	R/T	OB	CcySsh	Limonitic clay, minor rounded shale R.F.'s	15
3987581	77361	366180	5365850	43/92	VAUDEAU	SA	0.3	C	R	DG	luCcy	Fine grained pyroxenite frags.	13
3987582	77361	366170	5365850	43/92	VAUDEAU	SA	0.2	B/C	R/T	LVB	CcySsh	Sub-rounded shaley R.F.'s	20
3987583	77361	366160	5365850	43/92	VAUDEAU	SA	0.6	B/C	T	LBO	luCcy	Pyroxenite outcrop nearby, sub-rounded lu frags. within clay.	15
3987584	77361	366150	5365850	43/92	VAUDEAU	SA	0.3	B	R/T	LB	CcySsh	Sub-rounded green shale R.F.'s	40
3987585	77361	366140	5365850	43/92	VAUDEAU	SA	0.5	C	R?	LGV	CcyLu	F.gr. pyroxenite R.F.'s	10
3987586	77361	366100	5365550	43/92	VAUDEAU	SA	0.0	C	R	LGV	SshCcy	Green shale, ferruginous fractures.	13
3987587	77361	366125	5365550	43/92	VAUDEAU	SA	1.7	B	R	GB	CcySsi?		10
3987588	77361	366150	5365550	43/92	VAUDEAU	SA	0.5	B	R	OY	Ccy	Limonitic compacted clay.	25
3987589	77361	366175	5365550	43/92	VAUDEAU	SA	0.7	B	R	YB	Ccy	Compacted limonitic clay.	15
3987590	77361	366200	5365550	43/92	VAUDEAU	SA	0.8	B	R	OB	Ccy		10
3987591	77361	366225	5365550	43/92	VAUDEAU	SA	0.3	B	R	YB	Ccy	Compacted, org. rich limonitic clay.	45
3987592	77361	366250	5365550	43/92	VAUDEAU	SA	2.0	B	R	MYBW	Ccy		10
3987593	77361	366275	5365550	43/92	VAUDEAU	SA	0.7	B	R	YB	Ccy	Strongly limonitic compacted clay.	15
3987594	77361	366300	5365550	43/92	VAUDEAU	SA	0.8	B	R	EG	Ccy	Speckled clay- weathered green Sw.	10
3987595	77361	366325	5365550	43/92	VAUDEAU	SA	0.5	B	R	G	CcySsh		14
3987596	77361	366350	5365550	43/92	VAUDEAU	SA	0.5	B	R	LG	Ccy	Shale-derived clay.	4
3987597	77361	366375	5365550	43/92	VAUDEAU	SA	0.7	B	R/T	LG	Ccy	Organic-rich, lesser qtz gravel.	5
3987598	77361	366400	5365550	43/92	VAUDEAU	SA	0.3	A/B	T	B	CcyCg	Org. rich Cbs, ccy + qtz frags.	3
3987599	77361	366425	5365550	43/92	VAUDEAU	SA	0.4	A	T/R	DBG	CbsCgCcy	Org. rich clayey soil, minor qtz gravels/sands.	4
3987600	77361	366450	5365550	43/92	VAUDEAU	SA	1.1	B	R	MGW	Ccy	compacted clay.	10
3991501	77361	366475	5365550	43/92	VAUDEAU	SA	0.0	C	R	BN		Cellular goethite outcrop.	30
3991502	77361	366500	5365550	43/92	VAUDEAU	SA	0.3	B	R	LVB	Ccy	Compacted clay-derived from pale coloured shale.	10

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO	DPO	Ag ppm GA140	Au ppm GG316 0.005	Co ppm GA140	Cr ppm GA140	% GX401 0.01	% GX404 0.01	Cu ppm GA140	Fe % GA140	% GA140	% GA104	Mn ppm GA140	% GA140	% GA104	Ni ppm GA140	Pb ppm GA140	% GA104	Pd ppm GG316 0.005	Pt ppm GG316 0.05	Zn ppm GA140	Zn % GA104
		1		3	7	0.01	0.01	2	0.01	0.1	0.01	3	0.1	0.01	3	3	0.01	0.005	0.05	2	0.01
3987554	77361	-1		21	208			79			12.90				75	4				89	
3987555	77361	-1		12	148			58			8.60				52	5				79	
3987556	77361	26		19	166			156			16.90				89	1946				1699	
3987557	77361	-1		28	254			68			9.58				99	39				142	
3987558	77361	-1		27	218			68			11.30				63	51				87	
3987559	77361	-1		12	282			60			8.69				59	77				162	
3987560	77361	-1		13	233			53			9.84				45	85				128	
3987561	77361	-1		13	211			67			9.55				53	65				126	
3987562	77361	-1		5	147			66			8.92				36	55				65	
3987563	77361	-1		-3	131			53			7.18				23	174				40	
3987564	77361	-1		6	71			115			10.20				36	41				60	
3987565	77361	-1		5	44			8	2.20						35	27				35	
3987566	77361	-1		7	141			44			7.41				57	163				64	
3987567	77361	-1		-3	103			7	1.57						10	16				33	
3987568	77361	-1		-3	112			2	2.61						29	-3				20	
3987569	77361	-1		51	85			71			9.03				15	1089				125	
3987570	77361	-1		5	101			28			6.62				30	22				41	
3987571	77361	-1		5	160			57			7.25				30	197				86	
3987572	77361	-1		6	185			47			9.94				39	30				60	
3987573	77361	-1		18	187			39			6.00				114	51				147	
3987574	77361	-1		18	125			11			8.13				65	14				113	
3987575	77361	-1		8	105			18			5.12				26	32				48	
3987576	77361	-1		21	390			56			7.21				108	83				232	
3987577	77361	-1		16	341			43			5.10				80	86				136	
3987578	77361	-1		22	256			60			5.11				118	100				237	
3987579	77361	-1		9	285			27			5.98				34	57				99	
3987580	77361	-1		19	211			66			8.85				85	71				202	
3987581	77361	-1		8	253			36	3.93						32	61				79	
3987582	77361	-1		13	227			23			6.20				53	31				131	
3987583	77361	-1		14	219			34			6.74				56	56				127	
3987584	77361	-1		17	211			37			6.39				56	48				156	
3987585	77361	-1		7	206			25	3.46						50	40				71	
3987586	77361	-1		21	93			13			8.01				100	35				102	
3987587	77361	-1		-3	97			37	2.45						17	32				26	
3987588	77361	-1		6	230			61			13.00				37	27				51	
3987589	77361	-1		7	306			56			12.50				34	3				50	
3987590	77361	-1		3	236			51			9.12				51	42				45	
3987591	77361	-1		8	172			22			7.13				33	40				40	
3987592	77361	-1		-3	55			87			7.86				17	18				26	
3987593	77361	-1		4	265			78			12.80				48	49				53	
3987594	77361	-1		93	152			67							226	5				2614	
3987595	77361	-1		16	102			17	4.11						40	5				72	
3987596	77361	-1		8	117			24	2.33						22	10				43	
3987597	77361	-1		13	138			20	3.08						41	6				67	
3987598	77361	-1		5	87			13	1.06						10	8				24	
3987599	77361	-1		-3	134			16	1.08						10	14				26	
3987600	77361	-1		49	321			75	2.77						193	21				1409	
3991501	77361	-1		19	164			13			35.90				5	50				172	
3991502	77361	-1		3	126			8	2.73						4	54				72	

305171

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EI.	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10 ⁻⁵ SI
3991503	77361	366525	5365550	43/92	VAUDEAU	SA	0.7	C	R	LVO	CcySsh	Highly limonitic part. We Ssh. Compacted clay. Mixed grey-green compacted clay.	19
3991504	77361	366550	5365550	43/92	VAUDEAU	SA	0.3	C	R	YB	SshCcy		20
3991505	77361	366575	5365550	43/92	VAUDEAU	SA	0.4	B	R	LVO	Ccy		17
3991506	77361	366600	5365550	43/92	VAUDEAU	SA	1.5	B	R	OVG	Ccy		18
3991507	77364	366550	5367850	43/92	NORTH CUNI	W	0.9		R	LGV	Ssi		23
3991508	77364	366525	5367850	43/92	NORTH CUNI	W	1.0		R	LGV	Ssi	DIBN Fe Mn Vn Chromite grains upto 5mm Chromite grains upto 7mm 2% Ds Py Ds Py Poss We basalt/Ido 0.5 mm chlorite clots 4% Ds Py Ds Py 4% Ds Py 5% Ds Py No RF Rounded Ssi & Sbs Close to bedrock? Next to ck	29
3991509	77364	366500	5367850	43/92	NORTH CUNI	W	1.0		R	LGV	Fe fs Ssi		14
3991510	77364	366475	5367850	43/92	NORTH CUNI	W	1.0		R	RP	Ssi with LGV Ssi		30
3991511	77364	366450	5367850	43/92	NORTH CUNI	W	6.4		R	GV	We lgb		26
3991512	77364	366425	5367850	43/92	NORTH CUNI	W	4.0		R	MBVO	We Ssi		26
3991513	77364	366400	5367850	43/92	NORTH CUNI	W	0.6		R	LYB	We Sw & Ssi		12
3991514	77364	366375	5367850	43/92	NORTH CUNI	W	1.0		R	LOB	We Sw		26
3991515	77364	366350	5367850	43/92	NORTH CUNI	W	1.1		R	MYDB	We lgb?		23
3991516	77364	366325	5367850	43/92	NORTH CUNI	W	4.1		R	YB	We lgb?		21
3991517	77364	366300	5367850	43/92	NORTH CUNI	W	1.2		R	VB	We Ssi strongly cleaved		17
3991518	77364	366275	5367850	43/92	NORTH CUNI	W	1.0		R	VG	We Ssi		30
3991519	77364	366250	5367850	43/92	NORTH CUNI	W	1.0		R	LVB	Sw		28
3991520	77364	366850	5367500	43/92	NORTH CUNI	W	4.0		R	N	Sbs		13
3991521	77364	366825	5367500	43/92	NORTH CUNI	W	2.2		R	N	We Sbs		13
3991522	77364	366800	5367500	43/92	NORTH CUNI	W	4.0		R	YB	We		14
3991523	77364	366775	5367500	43/92	NORTH CUNI	W	7.0		R	LGV	We Ssi		20
3991524	77364	366750	5367500	43/92	NORTH CUNI	W	5.2		R	DG	We Ssi Ccy		15
3991525	77364	366725	5367500	43/92	NORTH CUNI	W	2.0		R	DG	We La Ssi		19
3991526	77364	366700	5367500	43/92	NORTH CUNI	W	1.2		R	DG	We Ssi		17
3991527	77364	366675	5367500	43/92	NORTH CUNI	W	1.0		R	LEG	We Sw		32
3991528	77364	366650	5367500	43/92	NORTH CUNI	W	2.0		R	LGV	Ccy with We Sw		9
3991529	77364	366625	5367500	43/92	NORTH CUNI	W	1.7		R	LGV	We Sw		20
3991530	77364	366600	5367500	43/92	NORTH CUNI	W	1.5		R	LEG	We Sw		25
3991531	77364	366575	5367500	43/92	NORTH CUNI	W	0.8		R	LEG	We Ssi		33
3991532	77364	366550	5367500	43/92	NORTH CUNI	W	1.4		R	N	Sbs		12
3991533	77364	366525	5367500	43/92	NORTH CUNI	W	1.7		R	EG	We Ssi		20
3991534	77364	366500	5367500	43/92	NORTH CUNI	W	6.6		R	MG	Sw		18
3991535	77364	366250	5366050	43/92	NORTH CUNI	SA	1.0	B/C	R	V	Ccy		19
3991536	77364	366260	5366050	43/92	NORTH CUNI	SA	1.3	B/C	R/T	V	lgb with Ccy		16
3991537	77364	366270	5366050	43/92	NORTH CUNI	SA	1.0	B	R/T	V	Ccy + lgb, Sbs, Ssi & qtz Cg		24
3991538	77364	366280	5366050	43/92	NORTH CUNI	SA	1.7	B	R	V	lgb		30
3991539	77364	366600	5368000	43/92	NORTH CUNI	SA	0.4	C	R	V	Ccy with Ssi		11
3991540	77364	366590	5368000	43/92	NORTH CUNI	SA	0.8	C	R	N	lgb? with Ccy		17
3991541	77364	366580	5368000	43/92	NORTH CUNI	SA	0.5	C	R	DV	lgb? with Ccy		30
3991542	77364	366570	5368000	43/92	NORTH CUNI	SA	0.6	B/C	R	G	DV Sw or lgb with We Ssi		13
3991543	77364	366560	5368000	43/92	NORTH CUNI	SA	0.7	B/C	R	O	Ccy with We Ssi?		70
3991544	77364	366550	5368000	43/92	NORTH CUNI	SA	0.6	B/C	R	P	Ccy with P Ssi		60
3991545	77364	366540	5368000	43/92	NORTH CUNI	SA	0.9	B	R/T		Ccy with lgb & sub rounded Ssi		18
3991546	77364	366530	5368000	43/92	NORTH CUNI	SA	1.0	B/C	R		Ccy with We Ssi		14
3991547	77364	366520	5368000	43/92	NORTH CUNI	SA	1.0	C	R	O	Ccy with P&V Ssi	Close to bedrock? Next to ck	28
3991548	77364	366510	5368000	43/92	NORTH CUNI	SA	0.8	B	T?	O	Ccy with sub rounded Ssi		20
3991549	77364	366500	5368000	43/92	NORTH CUNI	SA	1.0	B/C	R/T	O	DV Ccy after lgb? with sub rounded Ssi		25
3991550	77364	366490	5368000	43/92	NORTH CUNI	SA	1.1		T	V	Sub rounded Ssi		29
3991551	77364	366480	5368000	43/92	NORTH CUNI	SA	1.1	B	R	P	Ccy after Sw		20

305172

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO	DPO	Ag ppm GA140	Au ppm GG316 0.005	Co ppm GA140	Cr ppm GA140	% GX401 0.01	% GX404 0.01	Cu ppm GA140	Fe % GA140	% GA140	% GA104 0.01	Mn ppm GA140	% GA140	% GA104 0.01	Ni ppm GA140	Pb ppm GA140	% GA104 0.01	Pd ppm GG316 0.005	Pt ppm GG316 0.05	Zn ppm GA140	Zn % GA104 0.01
3991503	77361	-1		19	84			35				5.84			42	-3				78	
3991504	77361	-1		5	135			38				9.76			24	18				51	
3991505	77361	-1		43	340			65				8.72			100	10				170	
3991506	77361	-1		5	173			40				6.75			45	23				92	
3991507	77364	1		34	130			48		8.7		417			86	46				331	
3991508	77364	-1		61	380			823		11.7		1176			294	175				353	
3991509	77364	-1		45	196			56		8.3		965			114	38				248	
3991510	77364	-1		53	194			51		7.6		1201			118	36				237	
3991511	77364	3		44	119			237		15.1		2388			423	164				791	
3991512	77364	-1		85	164			185		21.3			3.2		142	82				501	
3991513	77364	4		134	83			169	4.64					5.75	194	333				874	
3991514	77364	2		35	201			153		9.5				4.0	331	45				977	
3991515	77364	-1		59	197			69		9.8					401	125				1750	
3991516	77364	1		81	142			72		9.3			4.7		351	51				1050	
3991517	77364	-1		42	113			39		8.7		1101			218	53				738	
3991518	77364	-1		39	165			48		9.3		568			103	42				183	
3991519	77364	-1		29	210			89		11.5		572			100	74				155	
3991520	77364	-1		34	158			99		6.8		259			97	48				152	
3991521	77364	-1		54	147			98		7.3		336			128	81				328	
3991522	77364	-1		8	243			107		8.4		128			68	51				70	
3991523	77364	-1		42	206			98		7.5		458			132	37				147	
3991524	77364	-1		38	130			115		7.2		366			83	67				114	
3991525	77364	-1		34	174			92		7.9		250			94	39				119	
3991526	77364	-1		33	99			116		6.9		303			83	67				123	
3991527	77364	-1		36	534			31		9.0		285			132	163				135	
3991528	77364	1		-3	99			47	0.96			68			11	439				44	
3991529	77364	-1		56	250			81		5.1		311			110	115				108	
3991530	77364	-1		48	266			70		7.6		563			127	47				171	
3991531	77364	-1		39	99			63		7.4		517			92	42				195	
3991532	77364	-1		43	134			90	4.96			188			93	55				314	
3991533	77364	-1		33	148			72		7.1		403			75	33				126	
3991534	77364	-1		85	276			110		7.1		264			207	38				487	
3991535	77364	-1		32	256			38		6.5		310			120	58				353	
3991536	77364	-1		20	353			67	4.30			288			93	48				145	
3991537	77364	-1		24	408			84	4.56			289			99	54				162	
3991538	77364	-1		29	296			80		5.8		420			101	42				164	
3991539	77364	-1		18	197			44	3.86			319			63	36				124	
3991540	77364	-1		68	153			511	4.75			658			228	91				2030	
3991541	77364	-1		20	191			199		7.8		923			141	98				145	
3991542	77364	-1		7	198			63		5.0		148			84	89				299	
3991543	77364	-1		10	213			144		7.0		117			71	179				305	
3991544	77364	-1		7	196			82		6.3		98			44	607				134	
3991545	77364	-1		24	241			93		8.5		293			104	241				288	
3991546	77364	-1		26	346			257		9.3		171			109	501				318	
3991547	77364	-1		27	192			110		8.3		349			123	260				349	
3991548	77364	-1		21	202			90		9.4		310			89	249				251	
3991549	77364	-1		27	241			101		10.6		457			142	574				509	
3991550	77364	-1		58	257			86		8.3		469			121	220				566	
3991551	77364	-1		7	242			62		6.6		124			43	56				97	

305173

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL.	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 SI
3991552	77364	366470	5368000	43/92	NORTH CUNI	SA	1.1	B	R?	P	Ccy after seds	Next to ck.	20
3991553	77364	366460	5368000	43/92	NORTH CUNI	SA	0.7	C?	R?	O	We PG Ssi with Ccy	Next to ck.	31
3991554	77364	366450	5368000	43/92	NORTH CUNI	SA	1.9	B	R	V	Gritty Ccy after Ssi?		11
3991555	77364	366440	5368000	43/92	NORTH CUNI	SA	1.9	B	R?	V	Ccy	Next to ck.	22
3991556	77364	366430	5368000	43/92	NORTH CUNI	SA	1.0	B	R	V	Ccy	Next to ck.	39
3991557	77364	366400	5368000	43/92	NORTH CUNI	SA	1.4	B	R	MVW	Ccy	Poss Ds in V Ccy above	36
3991558	77364	366390	5368000	43/92	NORTH CUNI	SA	2.0	B	R?	MGVW	Gritty Ccy		10
3991559	77364	366380	5368000	43/92	NORTH CUNI	SA	2.0	C	R	MVW	Ccy		26
3991560	77364	366370	5368000	43/92	NORTH CUNI	SA	0.5	B	R	DV	Ccy		14
3991561	77364	366300	5368000	43/92	NORTH CUNI	SA	0.5	B	R/T?	O	Ccy compact		13
3991562	77364	366275	5368000	43/92	NORTH CUNI	SA	0.7	B	R?	Y	Ccy		13
3991563	77364	366245	5368000	43/92	NORTH CUNI	SA	1.2	B	R?	MOYW	Ccy		10
3991564	77364	366225	5368000	43/92	NORTH CUNI	SA	1.4	B	R?	MOYR	Ccy		11
3991565	77364	366200	5368000	43/92	NORTH CUNI	SA	1.5	B	R	V	Ccy		23
3991566	77364	366175	5368000	43/92	NORTH CUNI	SA	1.0	B	R	N	Ccy after Sbs	In gully	9
3991567	77364	366150	5368000	43/92	NORTH CUNI	SA	0.2			RB	Clt		1180
3991568	77364	366260	5368000	43/92	NORTH CUNI	SA	0.5	B/C	R	YV	Ccy with YV Ssi	Next to costean	13
3991569	77364	366390	5367750	43/92	NORTH CUNI	SA	0.3	A/C	R+T	MGVO	Sw with humus		8
3991570	77364	366410	5367750	43/92	NORTH CUNI	SA	0.3	A/C	R+T	MGVO	Sw with humus		12
3991571	77364	366420	5367750	43/92	NORTH CUNI	SA	0.9	B	R+T	G	Ccy with minor qtz Cg	We G Ssi in overturned tree	15
3991572	77364	366430	5367750	43/92	NORTH CUNI	SA	0.4	A/B	R+T	V	Ccy with minor qtz Cg		15
3991573	77364	366440	5367750	43/92	NORTH CUNI	SA	0.4	B	R	BR	Gritty Ccy with Ssi?	Minor trans material	15
3991574	77364	366450	5367750	43/92	NORTH CUNI	SA	0.4	B	R	BR	Gritty Ccy with Ssi?	Minor trans material	9
3991575	77364	366460	5367750	43/92	NORTH CUNI	SA	1.0	B	R	BR	Ccy		20
3991576	77364	366470	5367750	43/92	NORTH CUNI	SA	1.9	B	R?	MOW	Ccy		5
3991577	77364	366480	5367750	43/92	NORTH CUNI	SA	1.2	B	R?	WG	Ccy		7
3991578	77364	366490	5367750	43/92	NORTH CUNI	SA	0.7	B	R?	O	Ccy with We Ssi		10
3991579	77364	366500	5367750	43/92	NORTH CUNI	SA	0.7	B	R?	O	Ccy with We Ssi		13
3991580	77364	366360	5367350	43/92	NORTH CUNI	SA	0.8	B	R?	DG	Ccy		6
3991581	77364	366340	5367350	43/92	NORTH CUNI	SA	1.0	B	R	DG	Gritty Ccy		9
3991582	77364	366330	5367350	43/92	NORTH CUNI	SA	1.0	B	R	DG	Gritty Ccy		10
3991583	77364	366320	5367350	43/92	NORTH CUNI	SA	0.9	B	R	B	Ccy with Ssi & Sw		5
3991584	77364	366310	5367350	43/92	NORTH CUNI	SA	1.1	B	R	MNI.G	Gritty Ccy		5
3991585	77364	366290	5367350	43/92	NORTH CUNI	SA	1.3	B	R	P	Gritty Ccy		9
3991586	77364	366450	5366200	43/92	VAUDEAU	SA	1.5	B	R?	O	Ccy		22
3991587	77364	366440	5366200	43/92	VAUDEAU	SA	1.0	B	R?	DO	Ccy		23
3991588	77364	366430	5366200	43/92	VAUDEAU	SA	1.1	B	R	MOY	Gritty Ccy		20
3991589	77364	366420	5366200	43/92	VAUDEAU	SA	0.8	B	R	MVW	Ccy after lgb	Relic lgb texture	24
3991590	77364	366420	5366200	43/92	VAUDEAU	SA	2.0	B	R	B	Ccy from 1.9 - 2.0 m.	lgb from 0.8 - 1.9 m	11
3991591	77364	366410	5366200	43/92	VAUDEAU	SA	1.0	B	R	MOV	Gritty Ccy		18
3991592	77364	366400	5366200	43/92	VAUDEAU	SA	0.8	B	R	VB	Gritty Ccy after V Ssi?	Track at 366408E	16
3991593	77364	366390	5366200	43/92	VAUDEAU	SA	0.7	B/C	R	VB	Ccy after Ssi		13
3991594	77364	366380	5366200	43/92	VAUDEAU	SA	0.8	B	R	OV	Ccy	Costean at 366375E	23
3991595	77364	366370	5366200	43/92	VAUDEAU	SA	0.7	B/C	R	VB	Ccy after Ssi?	Next to Mosquito Shaft?	24
3991596	77364	366350	5366200	43/92	VAUDEAU	SA	1.2	B	R	LGY	Friable Ccy.	No sample at 360E: due to Cg in ck at 362E	7
3991597	77364	366460	5366200	43/92	VAUDEAU	SA	0.9	B	R	O	Ccy		13
3991598	77366	366300	5367700	43/92	NORTH CUNI	w	1.9	B	R	PDO	Ccy with We PSsh		20
3991599	77366	366290	5367700	43/92	NORTH CUNI	w	2.8	B		DOP	Ccy	Hard	30
3991600	77366	366280	5367700	43/92	NORTH CUNI	w	7.4	B		OPYN	Ccy with Mn streaks	Hard	19

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	Ag	Au	Co	Cr			Cu	Fe			Mn			Ni	Pb		Pd	Pt	Zn	Zn
		ppm	ppm	ppm	ppm	%	%	ppm	%	%	%	ppm	%	%	ppm	ppm	%	ppm	ppm	ppm	%
		GA140	GG316	GA140	GA140	GX401	GX404	GA140	GA140	GA140	GA104	GA140	GA140	GA104	GA140	GA140	GA104	GG316	GG316	GA140	GA104
		1	0.005	3	7	0.01	0.01	2	0.01	0.1	0.01	3	0.1	0.01	3	3	0.01	0.005	0.05	2	0.01
3991552	77364	-1		29	183			47		5.1		234			70	126					191
3991553	77364	-1		20	322			51		8.6		370			101	89					134
3991554	77364	-1		63	272			120	2.51			144			140	46					303
3991555	77364	-1		122	230			94		5.9		542			197	38					483
3991556	77364	-1		64	236			84		6.8		562			161	48					461
3991557	77364	-1		163	564			152		7.4		684			505	33					475
3991558	77364	-1		21	396			128	2.68			180			162	577					1370
3991559	77364	-1		144	317			99		8.9		478			370	44					2220
3991560	77364	-1		83	419			345	4.66			498			418	177					2290
3991561	77364	-1		10	203			48		7.4		60			87	83					112
3991562	77364	-1		23	183			83		12.0		143			75	82					351
3991563	77364	-1		11	241			80		10.7		107			43	101					324
3991564	77364	-1		9	496			79		11.0		126			58	64					180
3991565	77364	-1		29	275			67		7.7		326			126	45					697
3991566	77364	-1		23	179			104		5.9		295			57	139					200
3991567	77364	-1		36	151			19		46.5		1788			8	498					425
3991568	77364	-1		20	150			92		9.9		214			81	234					404
3991569	77364	-1		8	403			37	2.14			172			27	31					52
3991570	77364	-1		11	305			57	2.98			213			31	35					65
3991571	77364	-1		28	210			49	4.64			811			79	41					135
3991572	77364	-1		11	248			23	1.72			187			35	32					55
3991573	77364	-1		16	172			37	2.91			203			49	42					84
3991574	77364	-1		7	134			21	2.44			76			26	41					55
3991575	77364	-1		26	174			33		7.4		332			94	53					133
3991576	77364	-1		4	327			33	1.20			15			71	47					38
3991577	77364	-1		-3	85			49	1.20			25			51	64					39
3991578	77364	-1		-3	123			68		6.7		44			38	56					56
3991579	77364	-1		6	142			43		6.4		50			35	42					51
3991580	77364	-1		4	208			745	0.67			24			67	39					33
3991581	77364	-1		6	150			27	3.02			75			23	32					43
3991582	77364	-1		4	256			44	2.02			55			71	352					41
3991583	77364	-1		-3	333			35	1.45			37			42	310					59
3991584	77364	-1		4	208			110	0.82			35			43	30					154
3991585	77364	-1		10	217			122	1.57			60			62	27					195
3991586	77364	-1		5	143			100		11.9		41			46	78					119
3991587	77364	-1		5	295			95		12.4		31			58	70					66
3991588	77364	-1		7	220			264		14.0		31			68	59					96
3991589	77364	-1		35	270			155		8.8		20			317	39					108
3991590	77364	-1		20	404			104		6.4		302			198	46					86
3991591	77364	-1		12	245			76		7.9		255			112	42					99
3991592	77364	-1		16	164			18		5.3		484			84	37					85
3991593	77364	-1		8	124			50		5.5		291			107	36					81
3991594	77364	-1		17	260			132		9.5		237			172	53					99
3991595	77364	-1		21	162			47		8.9		489			88	44					102
3991596	77364	-1		6	123			9	1.66			33			49	36					33
3991597	77364	-1		10	141			44		5.3		118			45	40					69
3911598	77366	-1		13	147			468		15.1		245			172	130					168
3911599	77366	-1		24	172			345		12.8		631			315	350					266
3911600	77366	17		50	178			766		11.3				1.7	160		2.13				369

305175

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	EAST	NORTH	EL	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10-5 SI
3911601	77366	366270	5367700	43/92	NORTH CUNI	w	1.5	C	R	P	Ccy with P Ssh		18
3911602	77366	366260	5367700	43/92	NORTH CUNI	w	3.0	C	R	P	Ccy with Sw and Ssh		18
3911603	77366	366250	5367700	43/92	NORTH CUNI	w	3.0	B/C	R	I.V/V	Ccy after Sw	Minor DG Ccy after Ssh	12
3911604	77366	366240	5367700	43/92	NORTH CUNI	w	6.0	B/C	R	MPVW	Ccy after Sw		25
3911605	77366	366230	5367700	43/92	NORTH CUNI	w	1.1	B/C	R	PYO	Ccy after Ssh	Hard	15
3911606	77366	366220	5367700	43/92	NORTH CUNI	w	0.8	B/C	R	MPVW	Ccy after Sw	Predominantly P	22
3911607	77366	366210	5367700	43/92	NORTH CUNI	w	2.5	B/C	R	BV	Ccy after Sw/lgb		22
3911608	77366	366200	5367700	43/92	NORTH CUNI	w	1.0	B/C	R	BV	Ccy after lgb?	Predominantly B	24
3911609	77366	366190	5367700	43/92	NORTH CUNI	w	1.5	B	R	PYB	Ccy after Ssh?	Some vegetation matter	20
3911610	77366	366180	5367700	43/92	NORTH CUNI	w	2.2	B	R	YLG	Ccy		40
3911611	77366	366170	5367700	43/92	NORTH CUNI	w	1.0	B	R	YOLG	Ccy after Sw		30
3911612	77366	366160	5367700	43/92	NORTH CUNI	w	2.5	B	R	YMWV	We Ccy after lgb?		26
3911613	77366	366150	5367700	43/92	NORTH CUNI	w	3.1	B	R	MPVW	Ccy after lgb?		35
3911614	77366	366150	5367600	43/92	NORTH CUNI	w	2.0	B	R	MDG/LV	Ccy after Ssh	Very hard.	14
3911615	77366	366160	5367600	43/92	NORTH CUNI	w	5.0	B/C	R	DV/V/LG	Ccy after lgb and LG Ssh.	DV rock fragments; lgb?	20
3911616	77366	366170	5367600	43/92	NORTH CUNI	w	1.8	B/C	R	MDVW	Gritty Ccy after lgb.		30
3911617	77366	366180	5367600	43/92	NORTH CUNI	w	1.5	C	R	LV	Ssh		25
3911618	77366	366190	5367600	43/92	NORTH CUNI	w	1.7	B/C	R	MLVW	Gritty Ccy after Sw		30
3911619	77366	366200	5367600	43/92	NORTH CUNI	w	2.4	B	R	V/G	Ccy after Ssh		15
3911620	77366	366210	5367600	43/92	NORTH CUNI	w	5.4	C	R	DV	Ccy after Sw and lgb		30
3911621	77366	366220	5367600	43/92	NORTH CUNI	w	0.5	C	R	V	lgb R.F's with Ds Y.	Mag. anomaly	37
3911622	77366	366230	5367600	43/92	NORTH CUNI	w	1.5	B	R	DVB	Gritty Ccy after lgb.	Ext. G with Ni sulphides.	32
3911623	77366	366240	5367600	43/92	NORTH CUNI	w	3.5	B/C	R	MDVBW	Ccy after lgb.		30
3911624	77366	366250	5367600	43/92	NORTH CUNI	w	3.3	B	R/T	VB	Ccy after lgb with Cg.	Angular Cg, some large 2mm white mica plates.	34
3911625	77366	366260	5367600	43/92	NORTH CUNI	w	2.0	B	R	DV/DG	Ccy after Ssh		27
3911626	77366	366240	5367800	43/92	NORTH CUNI	w	1.7	B/C	R	G/P	R.F's, minor Ccy.	Ssh, white mica present.	33
3911627	77366	366250	5367800	43/92	NORTH CUNI	w	1.4	C	R	G/V	Ssh R.F's	Fresh (unweathered) sample.	39
3911628	77366	366260	5367800	43/92	NORTH CUNI	w	4.6	C	R	V/B	Ccy after lgb.		35
3911629	77366	366270	5367800	43/92	NORTH CUNI	w	3.0	B	R	G/V	Ccy after Ssh	No R.F's present.	40
3911630	77366	366280	5367800	43/92	NORTH CUNI	w	4.0	B	R	E/G	Ccy, no R.F's.	Clay after We shale.	27
3911631	77366	366290	5367800	43/92	NORTH CUNI	w	7.1	B/C	R	V/G	Ccy after lgb.	Granular textured clay.	28
3911632	77366	366450	5367800	43/92	NORTH CUNI	w	5.0	C	R	LG/E	R.F's, minor Ccy	Ssh, partially We.	22
3911633	77366	366460	5367800	43/92	NORTH CUNI	w	5.0	C	R	LG	R.F's only.	Ssh, monotonous.	14
3911634	77366	366470	5367800	43/92	NORTH CUNI	w	3.1	C	R	LG	R.F's only.	Ssh, monotonous.	31
3911635	77366	366480	5367800	43/92	NORTH CUNI	w	1.0	C	R	LG/EG	R.F's, minor Ccy.	Ssh frags.	18
3911636	77366	366490	5367800	43/92	NORTH CUNI	w	1.0	C	R	O/R	R.F's only.	Ssh frags.	20
3911637	77366	366500	5367800	43/92	NORTH CUNI	w	1.2	C	R	R/G	R.F's, minor Ccy.	Ssh frags.	21
3911638	77366	366250	5367950	43/92	NORTH CUNI	w	7.2	B/C	R	V/W	Ccy	Speckled, granular Ccy after lgb.	18
3911639	77366	366260	5367950	43/92	NORTH CUNI	w	5.5	B/C	R	Y/V	Compacted Ccy.	Weathered lgb.	40
3911640	77366	366270	5367950	43/92	NORTH CUNI	w	0.9	C	R	O/V	lgb R.F's only.	Limonite (after Pyrite), no vis. sulphides.	105
3911641	77366	366280	5367950	43/92	NORTH CUNI	w	2.5	C	R	LG/V	Str-We R.F's: bleached lgb.		31
3911642	77366	366290	5367950	43/92	NORTH CUNI	w	1.5	B/C	R	B/V	Ccy, Str-We R.F's.	Limonitic lgb.	21
3911643	77366	366300	5367950	43/92	NORTH CUNI	w	1.6	C	R	VG/B	Str-We R.F's. Ccy	Limonitic lgb	24
3911644	77366	366570	5368000	43/92	NORTH CUNI	w	2.8	C	R	G/V	R.F's only.	Feldspathic sandstone/Sw	19
3911645	77366	366580	5368000	43/92	NORTH CUNI	w	2.0	B/C	R	LG/M	Ccy, lesser R.F's.	Ssh frags, minor OB Ccy.	13
3911646	77366	366590	5368000	43/92	NORTH CUNI	w	1.6	C	R	LG/EG	Str-We R.F's.	Sw frags.	25
3911647	77366	366600	5368000	43/92	NORTH CUNI	w	1.0	C	R	LG	R.F's only.	Ssh, unmineralised.	28
3911648	77366	366610	5368000	43/92	NORTH CUNI	w	1.1	C	R	LG/W	R.F's only.	Sw, volcanic derived.	30
3911649	77366	366620	5368000	43/92	NORTH CUNI	w	1.8	C	R	LG/E	R.F's only.	Sw (volcaniclastic)	23

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	Ag ppm GA140 1	Au ppm GG316 0.005	Co ppm GA140 3	Cr ppm GA140 7	% GX401 0.01	% GX404 0.01	Cu ppm GA140 2	Fe % GA140 0.01	% GA140 0.1	% GA104 0.01	Mn ppm GA140 3	% GA140 0.1	% GA104 0.01	Ni ppm GA140 3	Pb ppm GA140 3	% GA104 0.01	Pd ppm GG316 0.005	Pt ppm GG316 0.05	Zn ppm GA140 2	Zn % GA104 0.01
3911601	77366	-1		5	105			104		10		145			78	4023				89	
3911602	77366	-1		20	167			201		10.5		293			252	820				158	
3911603	77366	-1		33	153			92		5.8		690			236	43				234	
3911604	77366	-1		68	372			120		7.9		912			460	27				363	
3911605	77366	-1		28	117			48		6.7		404			155	48				138	
3911606	77366	-1		29	125			59		7.7		435			138	16				177	
3911607	77366	-1		39	102			76		6.7		559			178	157				898	
3911608	77366	-1		26	201			33		8.1		414			85	27				135	
3911609	77366	-1		19	156			36		10.2		366			84	24				111	
3911610	77366	-1		19	184			65		10.3		479			84	73				151	
3911611	77366	-1		20	213			36		11.5		985			117	155				129	
3911612	77366	-1		41	94			122		10.2		806			88	395				431	
3911613	77366	-1		66	17			60		10.5		851			60	25				460	
3911614	77366	-1		48	107			105	2.72			106			126	88				169	
3911615	77366	-1		20	145			89		6.4		189			84	751				309	
3911616	77366	-1		65	344			104		8.9		830			474	21				141	
3911617	77366	-1		38	88			27		8.3		580			103	45				132	
3911618	77366	-1		41	146			63		7.9		447			133	28				215	
3911619	77366	-1		35	48			55	4.17			196			135	23				172	
3911620	77366	-1		70	131			91		9.4		669			477	107				948	
3911621	77366	-1		106	416			1866		8.3		980			1881	21				184	
3911622	77366	-1		74	420			422		8.9		864			1354	24				498	
3911623	77366	-1		93	376			466		9.1		1018			1111	8				303	
3911624	77366	-1		32	182			69		16.4		352			433	17				1035	
3911625	77366	-1		55	189			79		7		429			890	45				1159	
3911626	77366	-1		47	107			109		9.2		448			226	35				666	
3911627	77366	-1		42	102			76		6.8		635			164	21				236	
3911628	77366	-1		93	730			1295		15.6		869			976	26				410	
3911629	77366	-1		90	212			83		17.5		3312			384	20				1109	
3911630	77366	-1		274	154			88		12.8		1754			797	24				1259	
3911631	77366	-1		112	913			264		14.4		1963			1029	30				1066	
3911632	77366	-1		41	113			33		6.7		864			75	26				294	
3911633	77366	-1		18	94			64		5.9		715			80	34				456	
3911634	77366	-1		37	192			85		8.6		936			112	43				359	
3911635	77366	-1		17	60			41		7		470			58	9				152	
3911636	77366	-1		28	105			60		6.2		471			75	19				158	
3911637	77366	-1		34	152			61		5.2		571			90	47				241	
3911638	77366	-1		36	17			42		13.7		475			49	22				340	
3911639	77366	-1		42	14			42		21.3		562			81	3				752	
3911640	77366	-1		139	-7			55		16.6		951			96	22				616	
3911641	77366	-1		41	283			72		9.6		1094			87	93				451	
3911642	77366	7		7	106			47		10.9		305			61	542				870	
3911643	77366	-1		48	176			138		8.2		450			143	143				666	
3911644	77366	-1		32	134			100		7.1		446			264	96				1754	
3911645	77366	-1		10	58			57	3.42			142			44	69				79	
3911646	77366	-1		70	207			71		7.9		1323			277	115				480	
3911647	77366	-1		32	105			62		11.2		1169			120	24				213	
3911648	77366	-1		39	81			26		7.7		923			151	19				208	
3911649	77366	-1		56	325			129		9.6		1307			492	7				238	

305177

MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO	DPO	EAST	NORTH	EL	PROSPECT	SAMP TYPE	DEPTH m	HORIZON	SAMP ORIG	COLOUR	LITHOLOGY/TEXTURE	COMMENTS	SUSC. x 10 ⁻⁵ SI
3911650	77366	366630	5368000	43/92	NORTH CUNI	w	2.9	C	R	LG	R.F's only.	Ssh	23
3911651	77366	366640	5368000	43/92	NORTH CUNI	w	2.5	C	R	LE/G	R.F's only.	Ssh frags.	17
3911652	77366	366650	5368000	43/92	NORTH CUNI	w	2.5	C	R	LP/G	R.F's only.	Ssh, minor purplish interbeds.	25

305178

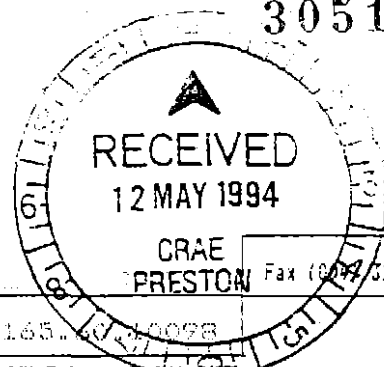
MELBA FLATS EL43/92 SOIL / WACKER DATABASE

SAMPNO.	DPO	Ag	Au	Co	Cr			Cu	Fe			Mn			Ni	Pb		Pd	Pt	Zn	Zn
		ppm	ppm	ppm	ppm	%	%	ppm	%	%	%	ppm	%	%	ppm	ppm	%	ppm	ppm	ppm	%
		GA140	GG316	GA140	GA140	GX401	GX404	GA140	GA140	GA140	GA104	GA140	GA140	GA104	GA140	GA140	GA104	GG316	GG316	GA140	GA104
		1	0.005	3	7	0.01	0.01	2	0.01	0.1	0.01	3	0.1	0.01	3	3	0.01	0.005	0.05	2	0.01
3911650	77366	-1		21	132			106		7.9		601			152	23					668
3911651	77366	-1		28	87			90		9		990			99	29					832
3911652	77366	-1		58	135			52		8.1		640			118	14					325

305179

**ANALABS**A Division of Analytical Services Australia Pty Ltd
A.C.N. 004 591 664

305180



Phone (004) 316637

14 Thirkell St. COOEE TAS 7320

CRAE
PRESTON Fax (0094) 318890**ANALYTICAL REPORT No.**

104165.40.10098

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

ORDER No.

PROJECT

INVOICE TO:

Mr C Hayward
CRA Exploration Pty Limited
P.O. Box 8093
NORTHLAND CENTRE VIC 3072

77359/77363

DATE RECEIVED

RESULTS REQUIRED

23/03/94

ASAP

No. OF PAGES
OF RESULTSDATE
REPORTEDNo.
OF COPIESTOTAL No.
OF SAMPLES

12

10/05/94

1

134

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
3753301/400.3987501/534	SS Prep : SP033	Cu,Pb,Zn,Ag,Co,Fe,Ni,Cr/6A140 Fe,Pb,Zn,Cr/6A104 Mn/6A140: <u>REF</u> Pt,Pd,Au/6B316

RESULTS

TO

Mr T Aravanis
CRA Exploration Pty Limited
P.O. Box 8093
NORTHLAND CENTRE VIC 3072

RESULTS

TO

Mr C Hayward
CRA Exploration Pty Limited
P.O. Box 8093
NORTHLAND CENTRE VIC 3072

RESULTS

TO

CRAE Information Systems
P.O. Box 3709
MANUKA ACT 2603

REMARKS

AUTHORISED OFFICER



ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.		REPORT DATE		CLIENT ORDER No.		PAGE		
		104165.60.10098		10/05/94		77359		1 OF 12		
	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	Fe	Fe	Co
METHOD		GA140	GA140	GA104	GA140	GA104	GA140	GA140	GA104	GA140
1	3753301	33	12	-	55	-	<1	2.57	-	6
2	3753302	25	17	-	56	-	<1	1.54	-	<3
3	3753303	23	25	-	80	-	<1	4.06	-	12
4	3753304	7	19	-	36	-	<1	3.40	-	3
5	3753305	6	12	-	24	-	<1	1.58	-	<3
6	3753306	17	13	-	63	-	<1	-	9.38	10
7	3753307	14	15	-	21	-	<1	2.61	-	<3
8	3753308	195	60	-	41	-	<1	2.46	-	23
9	3753309	7	17	-	15	-	<1	1.19	-	<3
10	3753310	30	119	-	29	-	<1	1.65	-	<3
11	3753311	62	45	-	113	-	<1	3.55	-	6
12	3753312	100	91	-	484	-	<1	4.57	-	22
13	3753313	43	92	-	56	-	<1	1.63	-	<3
14	3753314	25	119	-	92	-	<1	3.34	-	6
15	3753315	58	136	-	124	-	<1	-	10.60	13
16	3753316	41	269	-	361	-	<1	-	10.90	12
17	3753317	29	77	-	183	-	<1	-	7.07	19
18	3753318	19	66	-	135	-	<1	-	9.14	5
19	3753319	19	55	-	52	-	<1	-	8.88	<3
20	3753320	28	15	-	138	-	<1	-	7.56	24
21	3753321	27	26	-	806	-	<1	-	11.50	114
22	3753322	77	147	-	1341	-	<1	-	6.01	160
23	3753323	74	119	-	764	-	<1	-	10.00	61
24	3753324	5	<3	-	666	-	<1	-	13.30	53
25	3753325	203	1648	-	2812	-	3	-	21.90	210

Results in ppm unless otherwise specified.
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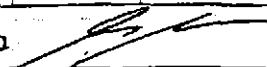
ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104165.60.10098				10/05/94		77359		2 OF 12	
	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	Fe	Fe	Ca	
METHOD		GA140	GA140	GA104	GA140	GA104	GA140	GA140	GA104	GA140	
1	3753326	116	276	-	936	-	<1	-	10.50	70	
2	3753327	379	-	0.61	1500	-	18	-	12.20	44	
3	3753328	79	39	-	910	-	<1	3.01	-	62	
4	3753329	102	31	-	798	-	<1	2.92	-	32	
5	3753330	121	46	-	705	-	2	3.47	-	26	
6	3753331	352	30	-	1128	-	3	2.48	-	478	
	3753332	94	93	-	586	-	<1	-	8.22	46	
8	3753333	95	220	-	347	-	<1	-	6.25	45	
9	3753334	493	7	-	910	-	9	-	16.80	52	
10	3753335	112	273	-	490	-	<1	-	7.12	52	
11	3753336	111	242	-	511	-	<1	-	5.78	70	
12	3753337	92	172	-	470	-	<1	-	5.66	55	
13	3753338	134	151	-	323	-	<1	4.20	-	38	
14	3753339	36	36	-	164	-	<1	2.49	-	20	
15	3753340	37	29	-	89	-	<1	2.62	-	8	
16	3753341	175	13	-	837	-	<1	-	9.44	142	
17	3753342	34	78	-	110	-	<1	-	11.00	7	
18	3753343	12	81	-	176	-	<1	-	50.04	34	
19	3753344	58	176	-	349	-	<1	4.86	-	18	
20	3753345	21	212	-	48	-	<1	0.96	-	<3	
21	3753346	25	37	-	30	-	<1	1.07	-	3	
22	3753347	28	37	-	35	-	<1	1.66	-	3	
23	3753348	31	19	-	60	-	<1	2.48	-	5	
24	3753349	37	15	-	80	-	<1	-	9.46	8	
25	3753350	84	11	-	31	-	<1	-	10.60	<3	

Results in ppm unless otherwise specified.
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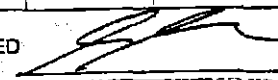
ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.		REPORT DATE		CLIENT ORDER No.		PAGE		
		104165.60.10098		10/05/94		77359		3 OF 12		
	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	Fe	Fe	Co
METHOD		GA140	GA140	GA104	GA140	GA104	GA140	GA140	GA104	GA140
1	3753351	26	6	-	48	-	<1	-	9.42	10
2	3753352	19	7	-	68	-	<1	-	11.00	9
3	3753353	15	18	-	38	-	<1	-	5.71	6
4	3753354	73	250	-	96	-	<1	3.68	-	8
5	3753355	27	36	-	40	-	<1	1.91	-	3
6	3753356	33	63	-	47	-	<1	2.24	-	4
	3753357	45	122	-	47	-	<1	0.88	-	3
8	3753358	41	134	-	37	-	<1	1.06	-	<3
9	3753359	82	64	-	108	-	<1	-	16.80	10
10	3753360	98	73	-	123	-	<1	-	12.10	7
11	3753361	50	18	-	38	-	<1	-	8.80	3
12	3753362	70	9	-	67	-	<1	-	16.80	4
13	3753363	69	190	-	92	-	<1	-	13.10	3
14	3753364	190	58	-	201	-	<1	-	12.20	21
15	3753365	79	57	-	88	-	<1	-	15.10	12
3	3753366	19	21	-	22	-	<1	1.30	-	3
17	3753367	14	18	-	35	-	<1	-	5.44	7
18	3753368	166	58	-	52	-	<1	-	14.80	7
19	3753369	236	35	-	72	-	<1	-	9.04	10
20	3753370	67	16	-	98	-	<1	4.33	-	22
21	3753371	246	11	-	167	-	<1	-	11.20	94
22	3753372	38	4	-	123	-	<1	-	5.45	41
23	3753373	65	5	-	126	-	<1	-	5.68	26
24	3753374	54	8	-	83	-	<1	3.34	-	9
25	3753375	43	18	-	232	-	<1	-	8.16	34

 Results in ppm unless otherwise specified.
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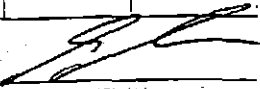
ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104165.60.10098				10/05/94		77359		4 OF 12	
	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	Fe	Fe	Co	
METHOD		GA140	GA140	GA104	GA140	GA104	GA140	GA140	GA104	GA140	
1	3753376	39	9	-	106	-	<1	-	7.96	26	
2	3753377	119	179	-	236	-	<1	-	6.90	34	
3	3753378	92	22	-	91	-	<1	4.13	-	11	
4	3753379	36	105	-	411	-	<1	4.97	-	104	
5	3753380	35	61	-	344	-	<1	-	5.49	71	
6	3753381	61	18	-	183	-	<1	4.50	-	36	
7	3753382	28	13	-	79	-	<1	2.55	-	15	
8	3753383	41	46	-	364	-	<1	-	6.68	86	
9	3753384	73	186	-	339	-	<1	-	5.12	57	
10	3753385	88	9	-	315	-	<1	-	11.00	124	
11	3753386	77	24	-	202	-	<1	-	6.64	48	
12	3753387	68	24	-	251	-	<1	4.20	-	67	
13	3753388	44	42	-	148	-	<1	2.46	-	13	
14	3753389	44	46	-	161	-	<1	-	7.46	25	
15	3753390	63	111	-	521	-	<1	-	5.59	48	
16	3753391	70	97	-	239	-	<1	2.45	-	49	
17	3753392	81	213	-	544	-	1	-	4.37	90	
18	3753393	47	205	-	592	-	<1	-	4.61	301	
19	3753394	80	144	-	425	-	<1	-	5.88	168	
20	3753395	95	104	-	593	-	<1	-	9.13	126	
21	3753396	86	278	-	563	-	<1	3.20	-	183	
22	3753397	60	79	-	274	-	<1	-	7.97	107	
23	3753398	36	38	-	33	-	<1	1.41	-	3	
24	3753399	99	68	-	645	-	<1	-	8.70	24	
25	3753400	54	20	-	165	-	<1	4.78	-	15	

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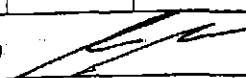
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10098			10/05/94		77359		5 OF 12	
	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	Fe	Fe	Co	
METHOD		GA140	GA140	GA104	GA140	GA104	GA140	GA140	GA104	GA140	
1	3987501	52	<3	-	182	-	<1	-	8.76	34	
2	3987502	41	<3	-	107	-	<1	-	6.08	26	
3	3987503	40	5	-	121	-	<1	-	5.41	26	
4	3987504	405	1499	-	567	-	1	-	11.00	10	
5	3987505	217	<3	-	220	-	<1	-	8.48	102	
6	3987506	53	10	-	60	-	<1	3.79	-	16	
	3987507	36	<3	-	64	-	<1	2.65	-	7	
8	3987508	106	<3	-	72	-	<1	-	12.50	5	
9	3987509	46	10	-	53	-	<1	1.99	-	6	
10	3987510	91	12	-	174	-	<1	4.77	-	26	
11	3987511	123	11	-	185	-	<1	-	5.86	36	
12	3987512	48	55	-	110	-	<1	3.55	-	13	
13	3987513	66	18	-	149	-	<1	-	6.32	26	
14	3987514	33	24	-	121	-	<1	-	5.88	22	
15	3987515	58	45	-	45	-	<1	4.07	-	4	
16	3987516	29	22	-	45	-	<1	-	7.83	10	
17	3987517	25	190	-	62	-	<1	4.70	-	13	
18	3987518	29	15	-	39	-	<1	1.62	-	8	
19	3987519	27	19	-	82	-	<1	2.87	-	14	
20	3987520	25	38	-	74	-	<1	2.96	-	16	
21	3987521	19	17	-	46	-	<1	2.06	-	11	
22	3987522	41	20	-	71	-	<1	-	6.69	18	
23	3987523	76	17	-	57	-	<1	-	8.87	6	
24	3987524	51	25	-	77	-	<1	4.72	-	17	
25	3987525	66	36	-	73	-	<1	-	11.90	18	

Results in ppm unless otherwise specified:
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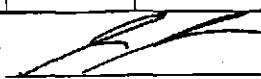
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10098			10/05/94		77359		6 OF 12	
	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	Fe	Fe	Ca	
METHOD		GA140	GA140	GA104	GA140	GA104	GA140	GA140	GA104	GA140	
1	3987526	54	196	-	98	-	<1	-	8.97	18	
2	3987527	17	589	-	19	-	<1	1.66	-	6	
3	3987528	16	272	-	25	-	<1	1.43	-	6	
4	3987529	28	44	-	27	-	<1	-	7.54	6	
5	3987530	97	32	-	71	-	<1	-	16.50	8	
6	3987531	56	37	-	63	-	<1	-	11.40	10	
7	3987532	26	14	-	24	-	<1	4.58	-	5	
8	3987533	132	110	-	191	-	<1	-	9.34	8	
9	3987534	30	25	-	67	-	<1	1.79	-	7	
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	2	3	0.01	2	0.01	1	0.01	0.01	3	
25	UNITS	ppm	ppm	%	ppm	%	ppm	%	%	pp	

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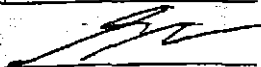
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10098			10/05/94		77359		7 OF 12	
	SAMPLE No.	Ni	Cr	Cr	Au	Pt	Pd	Mn	Mn	Mn:1	
METHOD		GA140	GA140	GX401 Y	GG316	GG316	GG316	GA140	GA104	GA140	
1	3753301	25	154	-	-	-	-	-	-	-	
2	3753302	11	89	-	-	-	-	-	-	-	
3	3753303	35	106	-	-	-	-	-	-	-	
4	3753304	14	144	-	-	-	-	-	-	-	
5	3753305	6	108	-	-	-	-	-	-	-	
6	3753306	38	116	-	-	-	-	-	-	-	
7	3753307	5	90	-	-	-	-	-	-	-	
8	3753308	76	102	-	-	-	-	-	-	-	
9	3753309	16	76	-	-	-	-	-	-	-	
10	3753310	17	69	-	-	-	-	-	-	-	
11	3753311	78	214	-	-	-	-	-	-	-	
12	3753312	81	322	-	-	-	-	-	-	-	
13	3753313	17	527	-	-	-	-	-	-	-	
14	3753314	29	214	-	-	-	-	-	-	-	
15	3753315	34	185	-	-	-	-	-	-	-	
16	3753316	20	103	-	-	-	-	-	-	-	
17	3753317	42	121	-	-	-	-	-	-	-	
18	3753318	29	197	-	-	-	-	-	-	-	
19	3753319	13	200	-	-	-	-	98	-	-	
20	3753320	87	83	-	-	-	-	568	-	-	
21	3753321	285	94	-	-	-	-	-	1.25	-	
22	3753322	315	200	-	-	-	-	1223	-	-	
23	3753323	184	159	-	-	-	-	-	-	16700	
24	3753324	265	101	-	-	-	-	548	-	-	
25	3753325	216	168	-	-	-	-	-	17.62	-	

Results in ppm unless otherwise specified.
-- element not determined

IS = insufficient sample
SNR = sample not received

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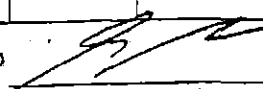
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10098			10/05/94		77359		8 OF 12	
	SAMPLE No.	Ni	Cr	Cr	Au	Pt	Pd	Mn	Mn	Mn:1	
METHOD		GA140	GA140	GX401	GG316	GG316	GG316	GA140	GA104	GA140	
1	3753326	109	66	-	-	-	-	-	6.17	-	
2	3753327	167	62	-	-	-	-	-	5.76	-	
3	3753328	157	150	-	-	-	-	546	-	-	
4	3753329	146	410	-	-	-	-	490	-	-	
5	3753330	97	270	-	-	-	-	1379	-	-	
6	3753331	376	41	-	-	-	-	-	30.50	-	
7	3753332	141	340	-	-	-	-	738	-	-	
8	3753333	171	128	-	-	-	-	1203	-	-	
9	3753334	312	161	-	-	-	-	-	-	13600	
10	3753335	170	169	-	-	-	-	975	-	-	
11	3753336	231	154	-	-	-	-	510	-	-	
12	3753337	132	137	-	-	-	-	521	-	-	
13	3753338	226	195	-	-	-	-	520	-	-	
14	3753339	52	166	-	-	-	-	280	-	-	
15	3753340	29	129	-	-	-	-	362	-	-	
16	3753341	770	851	-	-	-	-	573	-	-	
17	3753342	19	118	-	-	-	-	259	-	-	
18	3753343	10	68	-	-	-	-	-	-	25100	
19	3753344	63	137	-	-	-	-	622	-	-	
20	3753345	9	105	-	-	-	-	76	-	-	
21	3753346	9	93	-	-	-	-	78	-	-	
22	3753347	11	100	-	-	-	-	-	-	-	
23	3753348	26	67	-	-	-	-	-	-	-	
24	3753349	48	103	-	-	-	-	-	-	-	
25	3753350	32	166	-	-	-	-	-	-	-	

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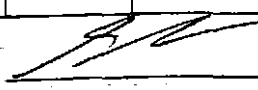
ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.		REPORT DATE		CLIENT ORDER No.		PAGE		
		104165.60.10098		10/05/94		77359		9 OF 12		
	SAMPLE No.	Ni	Cr	Cr	Au	Pt	Pd	Mn	Mn	Mn:1
METHOD		GA140	GA140	GX401	GG316	GG316	GG316	GA140	GA104	GA140
1	3753351	39	149	-	-	-	-	-	-	-
2	3753352	42	97	-	-	-	-	-	-	-
3	3753353	20	94	-	-	-	-	-	-	-
4	3753354	40	123	-	-	-	-	-	-	-
5	3753355	21	98	-	-	-	-	-	-	-
6	3753356	24	100	-	-	-	-	-	-	-
7	3753357	20	61	-	-	-	-	-	-	-
8	3753358	14	74	-	-	-	-	-	-	-
9	3753359	46	163	-	-	-	-	-	-	-
10	3753360	52	211	-	-	-	-	-	-	-
11	3753361	34	338	-	-	-	-	-	-	-
12	3753362	26	151	-	-	-	-	-	-	-
13	3753363	27	143	-	-	-	-	-	-	-
14	3753364	270	536	-	-	-	-	-	-	-
15	3753365	66	213	-	-	-	-	-	-	-
16	3753366	7	147	-	-	-	-	78	-	-
17	3753367	27	117	-	-	-	-	202	-	-
18	3753368	287	527	-	-	-	-	308	-	-
19	3753369	138	185	-	-	-	-	523	-	-
20	3753370	86	225	-	-	-	-	532	-	-
21	3753371	632	944	-	-	-	-	728	-	-
22	3753372	104	136	-	-	-	-	451	-	-
23	3753373	78	212	-	-	-	-	493	-	-
24	3753374	34	654	-	-	-	-	194	-	-
25	3753375	99	127	-	-	-	-	454	-	-

Results in ppm unless otherwise specified.
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OFFICER



ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104145.60.10098			10/05/94		77359		10 OF 12	
	SAMPLE No.	Ni	Cr	Cr	Au	Pt	Pd	Mn	Mn	Mn:1	
METHOD		GA140	GA140	GX401	GG316	GG316	GG316	GA140	GA104	GA140	
1	3753376	78	149	-	-	-	-	535	-	-	
2	3753377	104	142	-	-	-	-	-	-	-	
3	3753378	52	131	-	-	-	-	-	-	-	
4	3753379	327	-	2.33	-	-	-	-	-	-	
5	3753380	282	-	2.10	-	-	-	-	-	-	
6	3753381	89	316	-	-	-	-	-	-	-	
	3753382	46	117	-	-	-	-	-	-	-	
8	3753383	439	-	1.87	-	-	-	-	-	-	
9	3753384	123	1725	-	-	-	-	-	-	-	
10	3753385	201	1678	-	-	-	-	-	-	-	
11	3753386	138	1076	-	<0.005	<0.050	<0.005	196	-	-	
12	3753387	155	735	-	<0.005	<0.050	<0.005	251	-	-	
13	3753388	47	1163	-	<0.005	<0.050	<0.005	151	-	-	
14	3753389	85	768	-	<0.005	<0.050	<0.005	557	-	-	
15	3753390	134	2019	-	<0.005	<0.050	<0.005	526	-	-	
16	3753391	109	2505	-	<0.005	<0.050	<0.005	210	-	-	
17	3753392	250	-	2.93	<0.005	0.060	<0.005	441	-	-	
18	3753393	844	-	1.78	0.009	<0.050	<0.005	422	-	-	
19	3753394	589	-	2.93	<0.005	<0.050	0.008	1254	-	-	
20	3753395	508	-	2.08	<0.005	<0.050	0.006	517	-	-	
21	3753396	494	4164	-	<0.005	<0.050	0.007	228	-	-	
22	3753397	268	1142	-	<0.005	<0.050	<0.005	516	-	-	
23	3753398	29	90	-	<0.005	<0.050	<0.005	87	-	-	
24	3753399	46	212	-	<0.005	<0.050	<0.005	387	-	-	
25	3753400	35	156	-	<0.005	<0.050	<0.005	197	-	-	

Results in ppm unless otherwise specified
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ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10098			10/05/94		77359		11 OF 12	
	SAMPLE No.	Ni	Cr	Cr	Au	Pt	Pd	Mn	Mn	Mn:1	
METHOD		GA140	GA140	GX401	GG316	GG316	GG316	GA140	GA104	GA140	
1	3987501	84	155	-	-	-	-	-	-	-	
2	3987502	74	157	-	-	-	-	-	-	-	
3	3987503	75	156	-	-	-	-	-	-	-	
4	3987504	116	188	-	-	-	-	-	-	-	
5	3987505	502	452	-	-	-	-	-	-	-	
6	3987506	47	136	-	-	-	-	-	-	-	
	3987507	52	126	-	-	-	-	-	-	-	
8	3987508	23	73	-	-	-	-	-	-	-	
9	3987509	35	215	-	-	-	-	-	-	-	
10	3987510	95	242	-	-	-	-	-	-	-	
11	3987511	105	432	-	-	-	-	-	-	-	
12	3987512	48	273	-	-	-	-	-	-	-	
13	3987513	83	218	-	-	-	-	-	-	-	
14	3987514	87	376	-	-	-	-	-	-	-	
15	3987515	41	74	-	-	-	-	-	-	-	
16	3987516	31	179	-	-	-	-	-	-	-	
17	3987517	48	148	-	-	-	-	-	-	-	
18	3987518	74	119	-	-	-	-	-	-	-	
19	3987519	40	425	-	-	-	-	-	-	-	
20	3987520	58	202	-	-	-	-	-	-	-	
21	3987521	77	94	-	-	-	-	-	-	-	
22	3987522	56	155	-	-	-	-	-	-	-	
23	3987523	53	161	-	-	-	-	-	-	-	
24	3987524	171	172	-	-	-	-	-	-	-	
25	3987525	45	114	-	-	-	-	-	-	-	

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ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10098			10/05/94		77359		12 OF 12	
	SAMPLE No.	Ni	Cr	Cr	Au	Pt	Pd	Mn	Mn	Mn:1	
METHOD		GA140	GA140	GX401	GG316	GG316	GG316	GA140	GA104	GA140	
1	3987526	62	116	-	-	-	-	-	-	-	
2	3987527	9	99	-	-	-	-	-	-	-	
3	3987528	18	69	-	-	-	-	-	-	-	
4	3987529	10	128	-	-	-	-	-	-	-	
5	3987530	29	359	-	-	-	-	-	-	-	
6	3987531	46	325	-	-	-	-	-	-	-	
	3987532	16	146	-	-	-	-	-	-	-	
8	3987533	47	336	-	-	-	-	-	-	-	
9	3987534	40	151	-	-	-	-	-	-	-	
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	3	7	0.01	0.005	0.050	0.005	3	0.01	3	
25	UNITS	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	

- Results in ppm unless otherwise specified.
-- element not determined.

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SNR = sample not received.

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OFFICER



**ANALABS**A Division of In-house Testing Services (Australia) Pty. Ltd.
A.C.N. 004 591 664

305193

Phone (004) 316837

14 Thirkell St. CODEE TAS 7320

Fax (004) 316890

ANALYTICAL REPORT No.

1041a5.60.10144

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

ORDER No.

PROJECT

INVOICE TO:

CRA Exploration Pty Limited
P.O. Box 8093
NORTHLAND CENTRE VIC 3072

77361

DATE RECEIVED

RESULTS REQUIRED

15/04/94

ASAP

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OF RESULTSDATE
REPORTEDNo.
OF COPIES

3

09/05/94

1

TOTAL No.
OF SAMPLES

72

SAMPLE NUMBERS

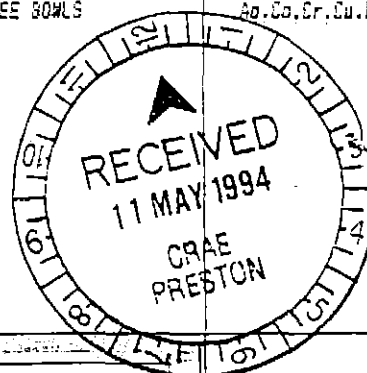
SAMPLE DESCRIPTION

ELEMENT/METHOD

3987535/3987600.3991501/3991506

50 Preg : 8P031 CHROME FREE BOWLS

Ag,Cs,Cr,Cu,Fe,Ni,Pb,In/6A140



RESULTS

TO

Mr C Hayward
CRA Exploration Pty Limited
P.O. Box 8093
NORTHLAND CENTRE VIC 3072

RESULTS

TO

Mr T Aravanis
CRA Exploration Pty Limited
P.O. Box 8093
NORTHLAND CENTRE VIC 3072

RESULTS

TO

CRAE Information Systems
P.O. Box 3709
MANUKA ACT 2603

REMARKS

AUTHORISED OFFICER

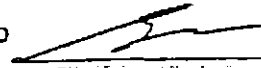
ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104165.60.10144				09/05/94		77361		1 OF 3	
	SAMPLE No.	Cu	Pb	Zn	Fe	Fe	Ag	Cr	Ni	Co	
METHOD		GA140	GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	
1	3987535	123	<3	126	-	13.40	<1	116	129	29	
2	3987536	93	3	147	-	11.10	<1	208	84	22	
3	3987537	34	4	72	-	10.60	<1	150	48	14	
4	3987538	34	5	33	-	13.80	<1	158	33	4	
5	3987539	94	<3	55	-	14.40	<1	229	56	13	
6	3987540	65	<3	53	-	19.30	<1	281	45	8	
	3987541	18	8	41	3.60	-	<1	46	39	5	
8	3987542	31	15	101	-	8.60	<1	220	94	11	
9	3987543	19	23	87	-	10.00	<1	163	75	24	
10	3987544	70	69	177	-	13.00	<1	148	104	26	
11	3987545	59	31	99	-	11.30	<1	586	394	33	
12	3987546	216	4	102	-	10.20	<1	2699	376	21	
13	3987547	53	25	100	-	7.81	<1	293	176	41	
14	3987548	44	21	109	-	6.59	<1	743	156	30	
15	3987549	99	9	137	-	14.10	<1	220	75	18	
16	3987550	71	63	60	-	11.10	<1	152	25	6	
17	3987551	60	16	54	-	9.11	<1	178	32	6	
18	3987552	79	4	139	-	13.20	<1	158	118	44	
19	3987553	82	12	154	-	12.70	<1	240	119	33	
20	3987554	79	4	89	-	12.90	<1	208	75	21	
21	3987555	58	5	79	-	8.60	<1	148	52	12	
22	3987556	156	1946	1699	-	16.90	26	166	89	19	
23	3987557	68	39	142	-	9.58	<1	254	99	28	
24	3987558	68	51	87	-	11.30	<1	218	63	27	
25	3987559	60	77	162	-	8.69	<1	282	59	12	

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ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10144			09/05/94		77361		2 OF 3	
	SAMPLE No.	Cu	Pb	Zn	Fe	Fe	Ag	Cr	Ni	Co	
METHOD		GA140	GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	
1	3987560	33	85	128	-	9.84	<1	233	45	13	
2	3987561	67	65	126	-	9.55	<1	211	53	13	
3	3987562	66	55	65	-	8.92	<1	147	36	5	
4	3987563	53	174	40	-	7.18	<1	131	23	<3	
5	3987564	115	41	60	-	10.20	<1	71	36	6	
6	3987565	8	27	35	2.20	-	<1	44	35	5	
	3987566	44	163	64	-	7.41	<1	141	87	7	
8	3987567	7	16	33	1.57	-	<1	103	10	<3	
9	3987568	2	<3	20	2.61	-	<1	112	29	<3	
10	3987569	71	1089	125	-	9.03	<1	85	15	51	
11	3987570	28	22	41	-	6.62	<1	103	30	5	
12	3987571	57	197	86	-	7.25	<1	160	30	5	
13	3987572	47	30	60	-	9.94	<1	185	39	6	
14	3987573	39	51	147	-	6.00	<1	187	114	18	
15	3987574	11	14	113	-	8.13	<1	125	65	18	
16	3987575	18	32	48	-	5.12	<1	105	26	8	
17	3987576	56	83	232	-	7.21	<1	390	108	21	
18	3987577	43	86	136	-	5.10	<1	341	80	16	
19	3987578	60	100	237	-	5.11	<1	256	118	22	
20	3987579	27	57	99	-	5.98	<1	285	34	9	
21	3987580	66	71	202	-	8.85	<1	211	85	19	
22	3987581	36	61	79	3.73	-	<1	253	32	8	
23	3987582	23	31	131	-	6.20	<1	227	53	13	
24	3987583	34	56	127	-	6.74	<1	219	56	14	
25	3987584	37	48	156	-	6.39	<1	211	56	17	

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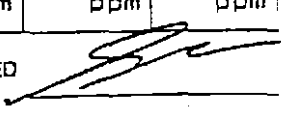
ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104165.60.10144				09/05/94		77361		3 OF 3	
	SAMPLE No.	Cu	Pb	Zn	Fe	Fe	Ag	Cr	Ni	Co	
METHOD		GA140	GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	
1	3987585	25	40	71	3.46	-	<1	206	50	7	
2	3987586	13	35	102	-	8.01	<1	93	100	21	
3	3987587	37	32	26	2.45	-	<1	97	17	<3	
4	3987588	61	27	51	-	13.00	<1	230	37	6	
5	3987589	78	49	53	-	12.80	<1	265	48	4	
6	3987590	51	42	45	-	9.12	<1	236	51	3	
	3987591	22	40	40	-	7.13	<1	172	33	8	
8	3987592	87	18	26	-	7.86	<1	55	17	<3	
9	3987593	56	3	50	-	12.50	<1	306	34	7	
10	3987594	67	5	2614	3.63	-	<1	152	226	93	
11	3987595	17	5	72	4.11	-	<1	102	40	16	
12	3987596	24	10	43	2.33	-	<1	117	22	8	
13	3987597	20	6	67	3.08	-	<1	138	41	13	
14	3987598	13	8	24	1.06	-	<1	87	10	5	
15	3987599	16	14	26	1.08	-	<1	134	10	<3	
16	3987600	75	21	1409	2.77	-	<1	321	193	49	
17	3991501	13	50	172	-	35.90	<1	164	5	19	
18	3991502	8	54	72	2.73	-	<1	126	4	3	
19	3991503	35	<3	78	-	5.84	<1	84	42	19	
20	3991504	38	18	51	-	9.76	<1	135	24	5	
21	3991505	65	10	170	-	8.72	<1	340	100	43	
22	3991506	40	23	92	-	6.75	<1	173	45	5	
23											
24	DETECTION	2	3	2	0.01	0.01	1	7	3	3	
25	UNITS	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	

Results in ppm unless otherwise specified.
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ANALABS

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

305197

Phone (04) 716637

14 Thirley St, DOONSIDE VIC 3026

Fax (04) 716637

ANALYTICAL REPORT No.

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

INVOICE TO:

Mr T Aravani
P.O. Box 3703
NORTHLAND CENTRE VIC 3072

ORDER No.

PROJECT

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RESULTS REQUIRED

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TOTAL No.
OF SAMPLES

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

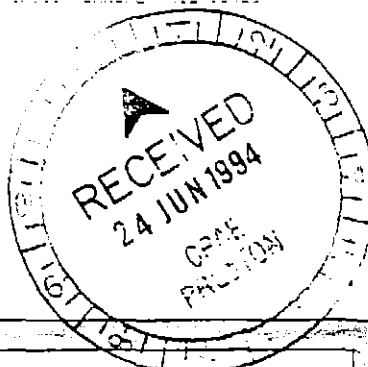
1391307/997

50 Pcs 10000 CHROME FREE BOWLS

Cu, Pb, Zn, Ag, Fe, Cr, Ni, Mn, Cd, Sr, Ba

Yield: Fe 0.140

Fe 0.140



RESULTS

TO

Mr T Aravani
ORA Exploration Pty Limited
P.O. Box 3703
NORTHLAND CENTRE VIC 3072

RESULTS

TO

Mr T Aravani
ORA Exploration Pty Limited
P.O. Box 3703
NORTHLAND CENTRE VIC 3072

RESULTS

TO

DATA Information Systems
P.O. Box 3703
MELBA VIC 3000

REMARKS

Iron and Fe results are over the
recommended analytical range

AUTHORISED OFFICER

ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104155.80.10218				21/06/94		77364		1 OF 8	
	SAMPLE No.	Cu	Pb	Zn	Ag	Mn	Mn:1	Mn:1	Fe	Fe:1	
METHOD		GA140	GA140	GA140	GA140	GA140	GA140	GA104	GA140	GA140	
1	3991507	48	48	331	1	417	-	-	-	8.7	
2	3991508	323	175	353	<1	1176	-	-	-	11.7	
3	3991509	56	38	248	<1	968	-	-	-	8.3	
4	3991510	51	36	237	<1	1201	-	-	-	7.6	
5	3991511	237	164	791	3	2388	-	-	-	15.1	
6	3991512	185	82	501	<1	-	3.2	-	-	21.3	
7	3991513	169	333	874	4	-	-	5.75	4.64	-	
8	3991514	153	45	977	2	-	4.0	-	-	9.5	
9	3991515	67	125	1750	<1	-	-	6.60	-	9.8	
10	3991516	72	51	1050	1	-	4.7	-	-	9.3	
11	3991517	39	53	738	<1	1101	-	-	-	8.7	
12	3991518	48	42	183	<1	568	-	-	-	9.3	
13	3991519	89	74	155	<1	572	-	-	-	11.5	
14	3991520	99	48	152	<1	259	-	-	-	6.8	
15	3991521	98	81	328	<1	336	-	-	-	7.3	
16	3991522	107	51	70	<1	128	-	-	-	8.4	
17	3991523	98	37	147	<1	458	-	-	-	7.5	
18	3991524	115	67	114	<1	366	-	-	-	7.2	
19	3991525	92	39	119	<1	250	-	-	-	7.9	
20	3991526	116	67	123	<1	303	-	-	-	6.9	
21	3991527	51	163	135	<1	285	-	-	-	9.0	
22	3991528	47	439	44	1	68	-	-	0.96	-	
23	3991529	81	115	108	<1	311	-	-	-	5.1	
24	3991530	70	47	171	<1	363	-	-	-	7.6	
25	3991531	63	42	195	<1	517	-	-	-	7.4	

Results are given unless otherwise specified.
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ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

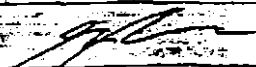
PAGE

		104165.60.10218			21/06/94		77364		2 OF 8	
	SAMPLE No.	Cu	Pb	Zn	Ag	Mn	Mn:1	Mn:1	Fe	Fe:1
METHOD		GA140	GA140	GA140	GA140	GA140	GA140	GA104	GA140	GA140
1	3991532	90	55	314	<1	188	-	-	4.96	-
2	3991533	72	30	126	<1	403	-	-	-	7.1
3	3991534	110	38	487	<1	264	-	-	-	7.1
4	3991535	38	58	353	<1	310	-	-	-	6.5
5	3991536	57	48	145	<1	288	-	-	4.30	-
6	3991537	84	54	162	<1	289	-	-	4.56	-
7	3991538	80	42	164	<1	420	-	-	-	5.8
8	3991539	44	36	124	<1	319	-	-	3.86	-
9	3991540	311	91	2030	<1	658	-	-	4.75	-
10	3991541	199	98	145	<1	923	-	-	-	7.8
11	3991542	63	89	299	<1	148	-	-	-	5.0
12	3991543	144	179	305	<1	117	-	-	-	7.0
13	3991544	82	607	134	<1	98	-	-	-	6.3
14	3991545	93	241	268	<1	293	-	-	-	8.5
15	3991546	257	501	318	<1	171	-	-	-	9.3
16	3991547	110	260	349	<1	349	-	-	-	8.3
17	3991548	90	249	251	<1	310	-	-	-	9.4
18	3991549	101	574	509	<1	457	-	-	-	10.6
19	3991550	86	220	566	<1	469	-	-	-	8.3
20	3991551	62	56	97	<1	124	-	-	-	6.6
21	3991552	47	126	191	<1	234	-	-	-	5.1
22	3991553	51	39	134	<1	370	-	-	-	8.6
23	3991554	120	46	303	<1	144	-	-	2.51	-
24	3991555	94	38	483	<1	542	-	-	-	5.9
25	3991556	84	48	461	<1	562	-	-	-	6.8

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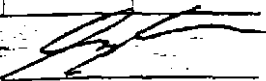
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE			CLIENT ORDER No.		PAGE	
			104155.60.10218			21/06/94			77364		3 OF 3	
	SAMPLE No.	Cu	Pb	Zn	Ag	Mn	Mn:1	Mn:1	Fe	Fe:1		
METHOD		BA140	BA140	BA140	BA140	BA140	BA140	BA104	BA140	BA140		
1	3991557	152	33	475	<1	584	-	-	-	7.4		
2	3991558	128	577	1370	<1	180	-	-	2.68	-		
3	3991559	99	44	2220	<1	478	-	-	-	8.9		
4	3991560	345	177	2290	<1	498	-	-	4.66	-		
5	3991561	48	83	112	<1	60	-	-	-	7.4		
6	3991562	83	82	351	<1	143	-	-	-	12.0		
7	3991563	80	101	324	<1	107	-	-	-	10.7		
8	3991564	79	64	180	<1	126	-	-	-	11.0		
9	3991565	67	45	697	<1	326	-	-	-	7.7		
10	3991566	104	139	200	<1	295	-	-	-	5.9		
11	3991567	19	498	425	<1	1798	-	-	-	46.5		
12	3991568	92	234	404	<1	214	-	-	-	9.9		
13	3991569	37	31	52	<1	172	-	-	2.14	-		
14	3991570	57	35	65	<1	213	-	-	2.98	-		
15	3991571	49	41	135	<1	811	-	-	4.64	-		
16	3991572	23	32	55	<1	187	-	-	1.72	-		
17	3991573	37	42	84	<1	203	-	-	2.91	-		
18	3991574	21	41	55	<1	176	-	-	2.44	-		
19	3991575	33	53	133	<1	332	-	-	-	7.4		
20	3991576	33	47	38	<1	15	-	-	1.20	-		
21	3991577	49	64	39	<1	25	-	-	1.20	-		
22	3991578	68	36	56	<1	44	-	-	-	5.7		
23	3991579	43	42	51	<1	50	-	-	-	6.4		
24	3991580	745	39	33	<1	24	-	-	0.67	-		
25	3991581	27	32	43	<1	75	-	-	3.02	-		

Results in ppm unless otherwise specified.
- element not determined

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ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10218			21/06/94		77364		1 OF 3	
	SAMPLE No.	Cu	Pb	Zn	Ag	Mn	Mn:1	Mn:1	Fe	Fe:1	
METHOD		GA140	GA140	GA140	GA140	GA140	GA140	GA104	GA140	GA140	
1	3991582	44	382	41	<1	55	-	-	2.02	-	
2	3991583	35	310	39	<1	37	-	-	1.45	-	
3	3991584	110	50	154	<1	35	-	-	0.32	-	
4	3991585	122	27	195	<1	60	-	-	1.57	-	
5	3991586	100	78	119	<1	41	-	-	-	11.9	
6	3991587	75	70	66	<1	31	-	-	-	12.4	
7	3991588	254	59	95	<1	31	-	-	-	14.0	
8	3991589	153	39	108	<1	20	-	-	-	3.8	
9	3991590	104	46	86	<1	302	-	-	-	6.4	
10	3991591	76	42	99	<1	255	-	-	-	7.9	
11	3991592	18	37	85	<1	484	-	-	-	5.0	
12	3991593	50	36	31	<1	291	-	-	-	3.3	
13	3991594	132	53	99	<1	237	-	-	-	9.5	
14	3991595	47	44	102	<1	489	-	-	-	3.9	
15	3991596	9	36	33	<1	33	-	-	1.58	-	
16	3991597	44	40	59	<1	118	-	-	-	5.3	
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	2	3	2	1	3	0.1	0.01	0.01	0.1	
25	UNITS	ppm	ppm	ppm	ppm	ppm	%	%	%	%	

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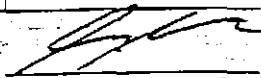
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE			CLIENT ORDER No.			PAGE	
			104165.60.10218			21/06/94			77364			5	OF 5
	SAMPLE No.	Cr	Ni	Co									
METHOD		GA140	GA140	GA140									
1	3991507	130	85	34									
2	3991508	380	294	81									
3	3991509	195	114	45									
4	3991510	194	118	53									
5	3991511	119	428	44									
6	3991512	164	142	85									
7	3991513	83	194	134									
8	3991514	201	331	35									
9	3991515	197	401	59									
10	3991516	142	361	81									
11	3991517	113	212	42									
12	3991518	165	103	39									
13	3991519	210	100	29									
14	3991520	158	97	34									
15	3991521	147	128	54									
16	3991522	243	68	8									
17	3991523	206	132	42									
18	3991524	130	83	38									
19	3991525	174	94	34									
20	3991526	99	83	33									
21	3991527	534	132	36									
22	3991528	99	11	43									
23	3991529	250	110	56									
24	3991530	266	127	48									
25	3991531	99	92	39									

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ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.		REPORT DATE		CLIENT ORDER No.		PAGE	
			104155.60.10218		21/06/94		77364		5 OF 9	
	SAMPLE No.	Cr	Ni	Co						
METHOD		GA140	GA140	GA140						
1	3991532	134	93	43						
2	3991533	148	75	33						
3	3991534	276	207	85						
4	3991535	256	120	32						
5	3991536	353	93	20						
6	3991537	406	99	24						
7	3991538	296	101	29						
8	3991539	197	63	18						
9	3991540	153	228	68						
10	3991541	191	141	20						
11	3991542	198	84	7						
12	3991543	213	71	10						
13	3991544	196	44	7						
14	3991545	241	104	24						
15	3991546	346	109	26						
16	3991547	192	123	27						
17	3991548	202	89	21						
18	3991549	241	142	27						
19	3991550	257	121	58						
20	3991551	242	43	7						
21	3991552	183	70	29						
22	3991553	322	101	20						
23	3991554	272	140	63						
24	3991555	230	197	122						
25	3991556	236	161	64						

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ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.			REPORT DATE			CLIENT ORDER No.			PAGE	
		104155.60.10215			31/06/94			77364			7	OF 8
	SAMPLE No.	Cr	Ni	Co								
METHOD		GA140	GA140	GA140								
1	3991557	364	305	160								
2	3991558	396	162	21								
3	3991559	317	370	144								
4	3991560	419	418	80								
5	3991561	303	37	10								
6	3991562	183	75	20								
7	3991563	241	47	11								
8	3991564	496	38	9								
9	3991565	275	126	29								
10	3991566	179	37	20								
11	3991567	131	9	16								
12	3991568	130	61	20								
13	3991569	403	27	8								
14	3991570	305	31	11								
15	3991571	210	79	28								
16	3991572	248	33	11								
17	3991573	172	49	16								
18	3991574	134	26	7								
19	3991575	174	94	26								
20	3991576	327	71	4								
21	3991577	63	61	13								
22	3991578	123	38	13								
23	3991579	142	35	6								
24	3991580	208	37	4								
25	3991581	150	23	6								

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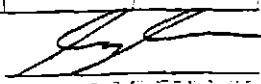
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.		REPORT DATE		CLIENT ORDER No.		PAGE	
			104163.80.10218		21/05/94		77384		3	OF 3
	SAMPLE No.	Cr	Ni	Co						
METHOD		GA140	GA140	GA140						
1	3991582	256	71	4						
2	3991583	333	42	63						
3	3991584	208	43	4						
4	3991585	217	62	10						
5	3991586	143	48	5						
6	3991587	295	58	3						
7	3991588	220	68	17						
8	3991589	270	117	33						
9	3991590	404	196	20						
10	3991591	243	112	12						
11	3991592	164	84	16						
12	3991593	124	107	6						
13	3991594	260	172	17						
14	3991595	162	68	21						
15	3991596	123	49	6						
16	3991597	141	45	10						
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	7	3	3						
25	UNITS	ppm	ppm	ppm						

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Phone 084 312837	14 Colborne St. DUNDEE 248 7510	Fax 0843 312850

ANALYTICAL REPORT No.

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

INVOICE TO:

ORDER No.

PROJECT

DATE RECEIVED

RESULTS REQUIRED

 No. OF PAGES
OF RESULTS

 DATE
REPORTED

 No.
OF COPIES

 TOTAL No.
OF SAMPLES

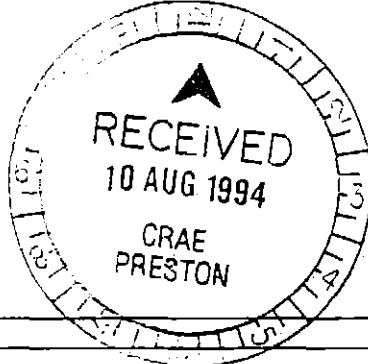
SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

TRAFFIC LIGHTS AREA

10 PM - 11 PM - FREE SOIL

 1. Pb (mg/kg)
2. Cu (mg/kg)
3. Zn (mg/kg)
4. Cd (mg/kg)


RESULTS

TO

RESULTS

TO

RESULTS

TO

REMARKS

Results (mg/kg) are over the recommended ecological range

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NO

REPORT DATE

CLIENT ORDER NO

PAGE

		104165.30.10305		08/08/94		77366		1 OF 7	
	SAMPLE NO	CO	CU	PBS	PBD	ZIN	ZIN	AG	AG
METHOD		GA140	GA104	GA140	GA104	GA140	GA104	GA140	GA104
1	3911788	-	14.00	269	-	308	-	137	-
2	3911787	-	4.44	29	-	122	-	38	-
3	3911786	-	10.40	31	-	118	-	26	-
4	3911789	-	1.33	219	-	372	-	41	-
5	3911790	-	0.78	69	-	164	-	41	-
6	3911791	-	3.08	33	-	227	-	41	-
7	3911792	-	0.82	38	-	75	-	41	-
8	3911793	1210	-	85	-	84	-	10	-
9	3911794	-	0.74	62	-	68	-	7	-
10	3911795	1190	-	-	25.30	-	25.30	-	310
11	3991598	468	-	130	-	168	-	41	-
12	3991599	348	-	330	-	266	-	41	-
13	3991600	768	-	-	2.13	369	-	17	-
14	3991601	104	-	4023	-	89	-	41	-
15	3991602	201	-	820	-	158	-	41	-
16	3991603	92	-	43	-	234	-	41	-
17	3991604	120	-	27	-	363	-	41	-
18	3991605	48	-	28	-	138	-	41	-
19	3991606	59	-	18	-	177	-	41	-
20	3991607	76	-	157	-	398	-	41	-
21	3991608	33	-	17	-	133	-	41	-
22	3991609	36	-	24	-	111	-	41	-
23	3991610	65	-	75	-	151	-	41	-
24	3991611	36	-	155	-	129	-	41	-
25	3991612	122	-	398	-	431	-	41	-

Results in parentheses otherwise specified
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ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

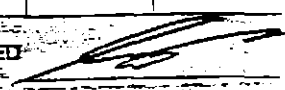
PAGE

		104155.50.10305				08/08/94		77365		2 OF 7	
	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	Fe	
METHOD		GA140	GA104	GA140	GA104	GA140	GA104	GA140	GA104	GA140	
1	3991613	50	-	25	-	460	-	<1	-	-	
2	3991614	105	-	88	-	159	-	<1	-	2.72	
3	3991615	89	-	751	-	509	-	<1	-	-	
4	3991616	104	-	21	-	141	-	<1	-	-	
5	3991617	27	-	45	-	132	-	<1	-	-	
6	3991618	50	-	13	-	215	-	<1	-	-	
7	3991619	55	-	23	-	172	-	<1	-	4.17	
8	3991620	51	-	107	-	943	-	<1	-	-	
9	3991621	1865	-	21	-	164	-	<1	-	-	
10	3991622	422	-	14	-	498	-	<1	-	-	
11	3991623	460	-	8	-	505	-	<1	-	-	
12	3991624	59	-	17	-	1035	-	<1	-	-	
13	3991625	79	-	45	-	1159	-	<1	-	-	
14	3991626	109	-	35	-	586	-	<1	-	-	
15	3991627	76	-	21	-	236	-	<1	-	-	
16	3991628	1295	-	26	-	410	-	<1	-	-	
17	3991629	83	-	20	-	1109	-	<1	-	-	
18	3991630	88	-	24	-	1259	-	<1	-	-	
19	3991631	254	-	30	-	1056	-	<1	-	-	
20	3991632	50	-	25	-	294	-	<1	-	-	
21	3991633	54	-	34	-	456	-	<1	-	-	
22	3991634	53	-	43	-	359	-	<1	-	-	
23	3991635	41	-	9	-	152	-	<1	-	-	
24	3991636	50	-	19	-	158	-	<1	-	-	
25	3991637	51	-	47	-	241	-	<1	-	-	

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305209



Analabs

Analabs Pty. Ltd.

A.C.N. 004 591 664

ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104155.50.10305

08/02/94

77366

3 OF 7

	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	Fe
METHOD	GA140	GA104	GA140	GA104	GA140	GA104	GA140	GA104	GA140	GA140
1	3991638	42	-	22	-	340	-	41	-	-
2	3991639	42	-	7	-	752	-	41	-	-
3	3991640	55	-	22	-	616	-	41	-	-
4	3991641	72	-	93	-	451	-	41	-	-
5	3991642	47	-	542	-	570	-	7	-	-
6	3991643	138	-	143	-	566	-	41	-	-
7	3991644	100	-	96	-	1754	-	41	-	-
8	3991645	57	-	69	-	79	-	41	-	0.42
9	3991646	71	-	116	-	450	-	41	-	-
10	3991647	52	-	24	-	317	-	41	-	-
11	3991648	26	-	19	-	108	-	41	-	-
12	3991649	129	-	7	-	108	-	41	-	-
13	3991650	106	-	10	-	662	-	41	-	-
14	3991651	90	-	29	-	504	-	41	-	-
15	3991652	51	-	14	-	125	-	41	-	-
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	2	0.01	2	0.01	2	0.01	2	10	0.01
25	UNITS	ppm	1	ppm	1	ppm	1	ppm	ppm	1

Results in ppm unless otherwise specified
- = element not determined

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SNR = sample not received

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

		104165.60.10305			08/08/94		77366		5 OF 7	
	SAMPLES No.	Fe(1)	Mn	Mn(1)	Cr	Co	Ni	Ni	Au	Pd
METHOD		GA140	GA140	GA140	GA140	GA140	GA140	GA140	GG314	GG314
1	3991617	10.5	651	-	17	66	60	-	-	-
2	3991618	-	105	-	107	48	135	-	-	-
3	3991615	6.4	189	-	145	20	34	-	-	-
4	3991616	6.9	330	-	344	65	474	-	-	-
5	3991617	6.3	380	-	38	38	103	-	-	-
6	3991618	7.9	447	-	146	41	107	-	-	-
7	3991619	-	196	-	48	35	103	-	-	-
8	3991620	9.4	669	-	131	70	477	-	-	-
9	3991621	6.0	980	-	415	106	1891	-	-	-
10	3991622	6.9	664	-	403	74	1534	-	-	-
11	3991623	9.1	1018	-	375	83	1111	-	-	-
12	3991624	13.4	352	-	182	32	403	-	-	-
13	3991625	7.0	429	-	189	55	890	-	-	-
14	3991626	9.2	448	-	107	47	226	-	-	-
15	3991627	6.8	636	-	102	42	164	-	-	-
16	3991628	15.6	869	-	730	93	976	-	-	-
17	3991629	17.5	3312	-	212	90	384	-	-	-
18	3991630	12.8	1754	-	134	274	797	-	-	-
19	3991631	14.4	1963	-	313	112	1025	-	-	-
20	3991632	6.7	254	-	110	41	75	-	-	-
21	3991633	6.9	715	-	84	13	30	-	-	-
22	3991634	6.6	905	-	192	37	112	-	-	-
23	3991635	7.0	470	-	60	17	58	-	-	-
24	3991636	6.2	471	-	105	28	75	-	-	-
25	3991637	6.2	571	-	132	74	90	-	-	-

 Results in ppm unless otherwise specified:
 - = element not determined.

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ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104163.50.10303			08/08/94		77322		5 OF 7	
	SAMPLE No.	Fe(1)	Mn	Mn(1)	Cr	Co	Ni	Ni	Au	Pd	
METHOD		GA140	GA140	GA140	GA140	GA140	GA140	GA104	GG314	GG314	
1	0991633	10.7	478	-	17	38	49	-	-	-	
2	0991634	21.0	381	-	14	42	81	-	-	-	
3	0991640	18.8	381	-	17	139	88	-	-	-	
4	0991641	9.8	1094	-	283	41	87	-	-	-	
5	0991642	10.9	108	-	108	7	81	-	-	-	
6	0991643	8.1	430	-	176	48	143	-	-	-	
7	0991644	7.1	448	-	114	132	284	-	-	-	
8	0991645	-	142	-	88	10	41	-	-	-	
9	0991646	7.8	1313	-	207	70	377	-	-	-	
10	0991647	11.1	1139	-	108	71	120	-	-	-	
11	0991648	7.7	827	-	81	38	181	-	-	-	
12	0991649	9.8	1307	-	315	38	492	-	-	-	
13	0991650	7.9	801	-	132	21	152	-	-	-	
14	0991651	9.0	390	-	87	28	89	-	-	-	
15	0991652	8.1	640	-	133	58	118	-	-	-	
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	0.1	3	0.1	7	3	3	0.01	0.008	0.008	
25	UNITS	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	

Results in ppm unless otherwise specified
 - = element not determined

(S = insufficient sample
 SNR = sample not received

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Analabs

Analabs Pty. Ltd.

A.C.N. 004 591 664

ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104165.80.10305

08/08/94

77366

7 OF 7

METHOD	SAMPLE No.	PL							
		85314							
1	3911786	1.720							
2	3911787	0.224							
3	3911788	0.354							
4	3911789	0.360							
5	3911790	1.280							
6	3911791	1.160							
7	3911792	0.780							
8	3911793	1.840							
9	3911794	1.150							
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24	DETECTION	0.075							
25	UNITS	ppm							

in ppm unless otherwise specified
 not determined

IS = insufficient sample
 SNR = sample not received

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Phone (004) 316837

14 Thirskell St. 000EE TAS 7320

Fax (004) 316890

ANALYTICAL REPORT No.

104165.60.10737

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

INVOICE TO:

CRA Exploration Pty Limited
P.O. Box 8093
NORTHLAND CENTRE VIC 3072

ORDER No.

PROJECT

77231

DATE RECEIVED

RESULTS REQUIRED

27/02/95

ASAP

No. OF PAGES
OF RESULTS

DATE
REPORTED

No.
OF COPIES

TOTAL No.
OF SAMPLES

33

16/03/95

1

372

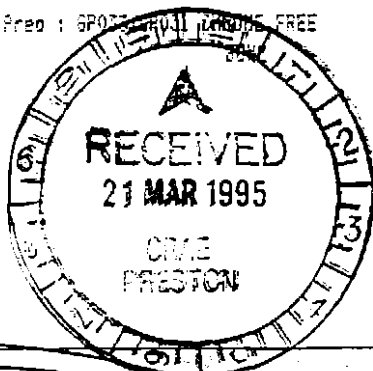
SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

3757237/300
3991653/700
3991923-2000
4143201-369

SR Pres : 6P073


Cu,Pb,Zn,Ag,Fe,Mn,Co,Cr,Ni/6A140
Fe(I),Mn(I),Cr(I)/6A140
Au,Au(R),Pt,Pt(R),Pd,Pd(R)/66316
Zn,Mn/6A104

RESULTS
TO

Mr S Maher
CRA Exploration Pty Limited
P.O. Box 8093
NORTHLAND CENTRE VIC 3072

RESULTS
TO

Mr C Hayward
CRA Exploration Pty Limited
P.O. Box 8093
NORTHLAND CENTRE VIC 3072

RESULTS
TO

CRAE Information Systems
P.O. Box 3707
MANUKA ACT 2603

REMARKS

Fe(I),Mn(I),Cr(I) results are over the recommended analytical range

This report replaces the one issued on 15/03/95. Ni results included.

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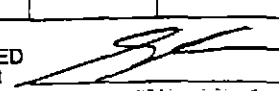
ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.		REPORT DATE		CLIENT ORDER No.		PAGE		
		104165.60.10739		16/03/95		77231		1 OF 33		
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140
1	3757239	15	17	90	-	<1	-	8.5	269	-
2	3757240	43	14	79	-	<1	4.98	-	244	-
3	3757241	25	31	77	-	<1	2.46	-	182	-
4	3757242	19	23	57	-	<1	2.03	-	193	-
5	3757243	24	69	36	-	1	0.93	-	83	-
6	3757244	26	41	58	-	<1	1.82	-	110	-
7	3757245	17	22	60	-	<1	2.43	-	201	-
8	3757246	35	33	80	-	<1	2.56	-	174	-
9	3757247	24	43	82	-	<1	3.14	-	193	-
10	3757248	39	73	86	-	<1	1.39	-	72	-
11	3757249	39	48	92	-	<1	3.27	-	241	-
12	3757250	37	41	81	-	<1	3.43	-	181	-
13	3757251	91	81	97	-	<1	3.03	-	190	-
14	3757252	95	52	151	-	<1	4.78	-	323	-
15	3757253	445	151	273	-	1	-	6.8	346	-
16	3757254	96	170	351	-	<1	4.53	-	345	-
17	3757255	768	98	140	-	<1	-	8.9	510	-
18	3757256	78	114	142	-	<1	2.44	-	278	-
19	3757257	78	195	125	-	<1	2.58	-	123	-
20	3757258	29	28	49	-	<1	1.38	-	95	-
21	3757259	71	27	66	-	<1	2.20	-	172	-
22	3757260	57	17	75	-	<1	-	10.5	38	-
23	3757261	21	33	30	-	<1	3.91	-	29	-
24	3757262	11	51	26	-	<1	2.85	-	41	-
25	3757263	41	103	146	-	<1	-	6.5	324	-

Results in ppm unless otherwise specified.
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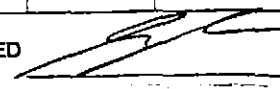
ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.		REPORT DATE		CLIENT ORDER No.		PAGE		
		104165.60.10739		16/03/95		77231		2 OF 33		
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140
1	3757264	71	85	131	-	<1	3.69	-	237	-
2	3757265	34	114	249	-	<1	3.33	-	182	-
3	3757266	69	63	68	-	<1	3.29	-	318	-
4	3757267	34	11	69	-	<1	2.09	-	192	-
	3757268	133	14	330	-	<1	4.00	-	352	-
6	3757269	146	76	450	-	<1	3.68	-	105	-
7	3757270	95	138	271	-	<1	3.16	-	217	-
8	3757271	200	134	674	-	<1	3.32	-	63	-
9	3757272	81	34	412	-	<1	4.82	-	526	-
10	3757273	103	31	266	-	<1	-	7.6	629	-
11	3757274	34	71	331	-	<1	3.80	-	450	-
12	3757275	62	108	528	-	<1	3.83	-	574	-
13	3757276	38	24	570	-	<1	-	7.5	510	-
14	3757277	39	217	209	-	<1	-	7.2	352	-
15	3757278	89	24	364	-	<1	4.10	-	452	-
16	3757279	78	217	338	-	<1	-	8.2	578	-
17	3757280	45	136	426	-	<1	-	9.2	595	-
18	3757281	26	19	81	-	<1	2.36	-	296	-
19	3757282	431	5	186	-	<1	1.75	-	50	-
20	3757283	35	6	86	-	<1	-	8.0	593	-
21	3757284	56	6	121	-	<1	-	7.5	717	-
22	3757285	63	3	83	-	<1	3.97	-	385	-
23	3757286	34	5	130	-	<1	-	8.1	612	-
24	3757287	41	9	60	-	<1	2.98	-	361	-
25	3757288	33	35	57	-	<1	1.80	-	60	-

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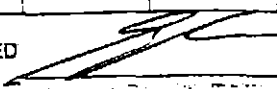
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		3 OF 33	
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)	
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140	
1	3757289	29	17	122	-	<1	-	6.9	793	-	
2	3757290	91	34	2803	-	<1	-	6.1	516	-	
3	3757291	41	38	53	-	<1	-	7.1	45	-	
4	3757292	87	64	143	-	<1	2.00	-	112	-	
5	3757293	87	11	69	-	<1	-	7.5	104	-	
6	3757294	26	19	49	-	<1	2.53	-	56	-	
7	3757295	29	15	185	-	<1	4.78	-	121	-	
8	3757296	78	21	281	-	<1	-	8.5	264	-	
9	3757297	53	31	159	-	<1	4.96	-	293	-	
10	3757298	41	66	691	-	<1	-	21.6	697	-	
11	3757299	55	9	60	-	<1	-	9.6	525	-	
12	3757300	57	8	91	-	<1	-	8.4	760	-	
13	3991653	83	107	433	-	<1	-	5.8	117	-	
14	3991654	747	107	873	-	<1	-	5.8	662	-	
15	3991655	105	92	316	-	<1	4.56	-	166	-	
16	3991656	50	854	216	-	<1	-	7.5	408	-	
17	3991657	13	9	45	-	<1	3.97	-	107	-	
18	3991658	56	26	71	-	<1	-	7.0	87	-	
19	3991659	29	40	79	-	<1	3.33	-	46	-	
20	3991660	70	53	182	-	<1	-	7.9	81	-	
21	3991661	29	64	519	-	<1	-	6.6	211	-	
22	3991662	29	54	540	-	<1	-	7.1	545	-	
23	3991663	119	86	805	-	<1	-	18.5	744	-	
24	3991664	25	38	96	-	<1	-	5.6	85	-	
25	3991665	103	27	491	-	<1	3.59	-	258	-	

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ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104165.60.10739				16/03/95		77231		4 OF 33	
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)	
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140	
1	3991666	64	48	564	-	<1	-	7.6	670	-	
2	3991667	174	4	467	-	<1	-	15.8	856	-	
3	3991668	917	68	760	-	<1	-	15.1	1080	-	
4	3991669	127	78	1211	-	<1	-	9.6	662	-	
-	3991670	116	15	515	-	<1	-	22.1	4111	-	
6	3991671	186	333	192	-	<1	-	6.3	111	-	
7	3991672	248	1016	817	-	2	-	11.6	766	-	
8	3991673	431	20	1594	-	<1	-	6.9	642	-	
9	3991674	93	54	533	-	<1	3.62	-	293	-	
10	3991675	48	21	141	-	<1	3.97	-	521	-	
11	3991676	18	29	117	-	<1	4.78	-	435	-	
12	3991677	21	17	130	-	<1	-	7.1	370	-	
13	3991678	14	18	62	-	<1	-	8.8	101	-	
14	3991679	26	8	42	-	<1	-	7.5	65	-	
15	3991680	47	9	44	-	<1	-	8.9	38	-	
16	3991681	9	11	39	-	<1	4.00	-	82	-	
17	3991682	16	16	61	-	<1	-	7.8	104	-	
18	3991683	15	46	39	-	<1	4.39	-	66	-	
19	3991684	32	39	74	-	<1	-	11.1	203	-	
20	3991685	42	61	71	-	<1	-	10.0	203	-	
21	3991686	30	165	56	-	<1	2.82	-	37	-	
22	3991687	82	67	69	-	<1	-	14.0	37	-	
23	3991688	108	2653	50	-	<1	-	9.8	24	-	
24	3991689	67	122	201	-	<1	-	8.1	164	-	
25	3991690	52	165	135	-	<1	-	9.7	155	-	

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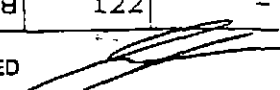
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		5 OF 33	
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)	
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140	
1	3991691	75	131	217	-	<1	4.74	-	180	-	
2	3991692	79	42	1067	-	<1	-	7.9	251	-	
3	3991693	79	424	1061	-	<1	2.00	-	180	-	
4	3991694	33	8	623	-	<1	-	10.6	582	-	
5	3991695	200	30	72	-	<1	-	7.1	235	-	
6	3991696	1124	20	526	-	<1	-	10.4	492	-	
7	3991697	31	18	83	-	<1	-	10.8	500	-	
8	3991698	27	16	71	-	<1	-	11.7	513	-	
9	3991699	46	313	510	-	<1	-	13.3	1255	-	
10	3991700	37	30	63	-	<1	4.16	-	169	-	
11	3991923	66	22	48	-	<1	-	13.7	53	-	
12	3991924	45	18	40	-	<1	-	10.4	32	-	
13	3991925	43	24	45	-	<1	-	7.0	38	-	
14	3991926	11	9	15	-	<1	1.55	-	49	-	
15	3991927	21	3	23	-	<1	-	6.5	54	-	
16	3991928	113	3	50	-	<1	-	16.9	40	-	
17	3991929	37	8	29	-	<1	-	9.4	32	-	
18	3991930	24	22	25	-	<1	-	7.4	31	-	
19	3991931	25	67	53	-	<1	4.98	-	206	-	
20	3991932	109	71	880	-	<1	-	9.8	760	-	
21	3991933	52	153	40	-	<1	-	13.1	41	-	
22	3991934	37	27	39	-	<1	-	9.1	92	-	
23	3991935	56	25	59	-	<1	-	20.7	82	-	
24	3991936	47	36	27	-	<1	4.96	-	22	-	
25	3991937	95	26	40	-	<1	-	17.8	122	-	

Results in ppm unless otherwise specified.
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ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104165.60.10739				16/03/95		77231		6 OF 33	
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)	
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140	
1	3991938	95	48	64	-	<1	-	20.5	24	-	
2	3991939	125	72	83	-	<1	-	26.5	48	-	
3	3991940	96	156	65	-	<1	-	17.0	49	-	
4	3991941	92	221	132	-	<1	-	12.3	33	-	
-	3991942	136	29	31	-	<1	-	7.2	34	-	
6	3991943	56	24	26	-	<1	0.78	-	42	-	
7	3991944	34	28	110	-	<1	-	11.1	281	-	
8	3991945	96	7	72	-	<1	-	13.2	421	-	
9	3991946	32	4	39	-	<1	-	7.6	117	-	
10	3991947	49	<3	63	-	<1	-	7.5	262	-	
11	3991948	56	13	39	-	<1	1.69	-	35	-	
12	3991949	73	15	113	-	<1	2.70	-	621	-	
13	3991950	41	22	135	-	<1	-	7.9	763	-	
14	3991951	52	144	137	-	<1	-	7.6	526	-	
15	3991952	48	6	63	-	<1	3.04	-	198	-	
16	3991953	147	<3	145	-	<1	-	8.6	1022	-	
17	3991954	38	12	36	-	<1	1.25	-	48	-	
18	3991955	60	19	81	-	<1	3.62	-	194	-	
19	3991956	50	<3	139	-	<1	4.95	-	214	-	
20	3991957	70	<3	256	-	<1	4.90	-	288	-	
21	3991958	32	11	37	-	<1	0.98	-	35	-	
22	3991959	133	16	65	-	<1	3.12	-	64	-	
23	3991960	38	13	32	-	<1	1.20	-	39	-	
24	3991961	30	4	54	-	<1	2.69	-	164	-	
25	3991962	100	<3	229	-	<1	-	10.9	404	-	

Results in ppm unless otherwise specified
- = element not determined

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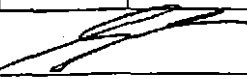
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		7 OF 33	
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)	
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140	
1	3991963	38	<3	87	-	<1	-	6.1	387	-	
2	3991964	140	15	254	-	<1	4.89	-	255	-	
3	3991965	62	<3	132	-	<1	-	8.7	593	-	
4	3991966	53	<3	98	-	<1	-	5.2	452	-	
5	3991967	63	77	41	-	<1	-	6.4	85	-	
6	3991968	66	60	69	-	<1	-	15.7	102	-	
7	3991969	90	<3	47	-	<1	4.57	-	685	-	
8	3991970	42	209	35	-	<1	1.89	-	60	-	
9	3991971	30	15	330	-	<1	-	8.8	477	-	
10	3991972	92	599	121	-	<1	-	19.7	42	-	
11	3991973	44	13	24	-	<1	4.20	-	36	-	
12	3991974	21	11	34	-	<1	1.05	-	67	-	
13	3991975	76	13	129	-	<1	3.14	-	506	-	
14	3991976	36	10	69	-	<1	3.38	-	326	-	
15	3991977	22	17	45	-	<1	1.72	-	132	-	
16	3991978	36	11	105	-	<1	-	6.7	599	-	
17	3991979	41	68	92	-	<1	-	6.8	238	-	
18	3991980	21	73	55	-	<1	4.77	-	103	-	
19	3991981	78	78	79	-	<1	-	12.2	58	-	
20	3991982	98	2605	86	-	<1	-	8.0	73	-	
21	3991983	38	83	44	-	1	1.29	-	84	-	
22	3991984	4799	6	78	-	2	-	9.9	739	-	
23	3991985	27	14	64	-	<1	2.53	-	338	-	
24	3991986	81	20	359	-	<1	-	7.3	593	-	
25	3991987	30	30	129	-	<1	-	6.0	694	-	

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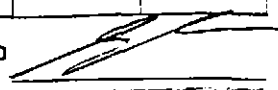
ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.		REPORT DATE		CLIENT ORDER No.		PAGE		
		104165.60.10739		16/03/95		77231		8 OF 33		
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140
1	3991988	49	27	106	-	<1	-	6.4	256	-
2	3991989	20	7	34	-	<1	2.20	-	72	-
3	3991990	103	<3	42	-	<1	1.73	-	94	-
4	3991991	16	7	42	-	<1	1.66	-	104	-
-	3991992	22	4	105	-	<1	2.86	-	139	-
6	3991993	58	8	85	-	<1	3.31	-	235	-
7	3991994	113	8	52	-	<1	2.13	-	194	-
8	3991995	23	3	60	-	<1	3.26	-	204	-
9	3991996	36	923	72	-	<1	-	7.2	184	-
10	3991997	95	85	67	-	<1	-	25.3	26	-
11	3991998	37	328	102	-	<1	-	7.6	93	-
12	3991999	30	360	33	-	<1	3.29	-	31	-
13	3992000	54	41	38	-	1	-	9.1	105	-
14	4143201	43	37	64	-	<1	-	11.2	1091	-
15	4143202	182	56	68	-	<1	-	10.8	640	-
16	4143203	77	36	171	-	<1	-	7.1	809	-
17	4143204	20	16	67	-	<1	2.53	-	382	-
18	4143205	37	15	163	-	<1	-	7.5	691	-
19	4143206	17	22	26	-	<1	0.81	-	40	-
20	4143207	79	4	297	-	<1	-	7.7	795	-
21	4143208	44	<3	96	-	<1	5.00	-	368	-
22	4143209	25	4	204	-	<1	-	7.1	375	-
23	4143210	44	12	49	-	<1	2.34	-	172	-
24	4143211	28	10	75	-	<1	4.71	-	278	-
25	4143212	20	13	30	-	<1	1.53	-	88	-

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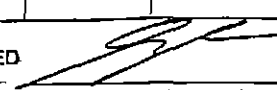
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		9 OF 33	
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(I)	Mn	Mn(I)	
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140	
1	4143213	22	9	48	-	<1	2.51	-	114	-	
2	4143214	107	51	1572	-	<1	4.04	-	322	-	
3	4143215	101	26	1992	-	<1	-	8.7	580	-	
4	4143216	99	1342	1259	-	<1	3.82	-	383	-	
5	4143217	79	74	2652	-	<1	-	7.4	691	-	
6	4143218	119	137	1833	-	<1	-	6.8	711	-	
7	4143219	82	35	893	-	<1	-	7.6	385	-	
8	4143220	25	60	812	-	<1	2.19	-	175	-	
9	4143221	42	57	673	-	<1	-	5.9	296	-	
10	4143222	55	<3	256	-	<1	-	9.2	647	-	
11	4143223	61	25	338	-	<1	-	8.5	598	-	
12	4143224	79	<3	418	-	<1	4.96	-	549	-	
13	4143225	207	220	438	-	<1	2.31	-	82	-	
14	4143226	71	35	303	-	<1	-	6.4	326	-	
15	4143227	112	94	96	-	<1	1.28	-	42	-	
16	4143228	161	323	78	-	<1	1.31	-	64	-	
17	4143229	66	79	205	-	<1	-	8.2	371	-	
18	4143230	23	49	110	-	<1	3.71	-	223	-	
19	4143231	58	13	254	-	<1	4.56	-	295	-	
20	4143232	194	9	883	-	<1	-	8.5	1001	-	
21	4143233	217	84	900	-	<1	-	6.7	514	-	
22	4143234	285	38	766	-	<1	-	9.2	1158	-	
23	4143235	61	93	95	-	<1	3.16	-	282	-	
24	4143236	140	289	150	-	2	-	7.9	85	-	
25	4143237	72	150	64	-	2	4.33	-	144	-	

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ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		10 OF 33	
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)	
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140	
1	4143238	129	96	113	-	<1	-	16.5	82	-	
2	4143239	130	133	90	-	<1	-	12.3	62	-	
3	4143240	122	92	63	-	<1	-	10.1	49	-	
4	4143241	143	48	44	-	<1	-	6.8	91	-	
5	4143242	716	43	43	-	1	-	10.4	36	-	
6	4143243	648	29	50	-	<1	-	11.3	60	-	
7	4143244	39	21	37	-	<1	4.43	-	50	-	
8	4143245	35	14	73	-	<1	-	10.6	215	-	
9	4143246	112	31	44	-	<1	-	10.4	59	-	
10	4143247	116	144	87	-	<1	-	12.1	36	-	
11	4143248	66	18	62	-	<1	-	14.0	79	-	
12	4143249	42	13	43	-	<1	-	6.9	40	-	
13	4143250	75	39	23	-	<1	-	9.0	27	-	
14	4143251	38	41	1121	-	<1	3.67	-	33	-	
15	4143252	41	9	120	-	<1	-	8.6	867	-	
16	4143253	37	9	64	-	<1	0.78	-	62	-	
17	4143254	55	37	340	-	<1	3.84	-	322	-	
18	4143255	50	49	127	-	<1	4.75	-	542	-	
19	4143256	93	29	704	-	<1	3.17	-	425	-	
20	4143257	43	44	117	-	<1	1.98	-	230	-	
21	4143258	144	39	208	-	<1	-	9.0	840	-	
22	4143259	97	45	432	-	<1	4.63	-	311	-	
23	4143260	72	34	252	-	<1	-	7.2	400	-	
24	4143261	107	27	538	-	<1	-	9.6	265	-	
25	4143262	81	104	128	-	1	-	9.1	300	-	

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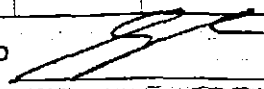
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		11 OF 33	
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)	
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140	
1	4143263	51	54	80	-	<1	-	8.5	251	-	
2	4143264	79	66	195	-	<1	-	7.6	317	-	
3	4143265	116	94	342	-	<1	-	9.0	421	-	
4	4143266	85	926	478	-	2	-	9.8	567	-	
	4143267	621	654	1196	-	2	-	8.7	477	-	
6	4143268	41	256	543	-	<1	-	8.0	393	-	
7	4143269	32	179	131	-	<1	3.38	-	204	-	
8	4143270	16	83	59	-	<1	2.76	-	123	-	
9	4143271	212	175	-	1.44	4	-	8.7	472	-	
10	4143272	165	945	953	-	12	-	9.5	-	-	
11	4143273	87	106	890	-	1	-	9.8	2111	-	
12	4143274	46	105	949	-	<1	-	7.8	376	-	
13	4143275	58	15	786	-	<1	-	7.2	316	-	
14	4143276	108	123	422	-	<1	-	7.1	436	-	
15	4143277	109	161	376	-	1	-	6.2	358	-	
16	4143278	93	314	602	-	<1	-	6.3	395	-	
17	4143279	80	253	620	-	1	3.80	-	281	-	
18	4143280	129	534	327	-	2	3.20	-	122	-	
19	4143281	42	384	1244	-	2	-	10.0	234	-	
20	4143282	104	256	392	-	1	-	6.6	318	-	
21	4143283	28	69	177	-	<1	-	7.3	289	-	
22	4143284	78	241	940	-	<1	-	9.4	138	-	
23	4143285	90	527	1467	-	4	-	20.3	410	-	
24	4143286	36	48	62	-	<1	-	9.0	61	-	
25	4143287	30	97	36	-	<1	-	6.6	59	-	

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ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104165.60.10739				16/03/95		77231		12 OF 33	
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)	
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140	
1	4143288	84	13	58	-	<1	-	15.4	124	-	
2	4143289	25	8	24	-	<1	4.05	-	65	-	
3	4143290	97	44	139	-	<1	-	17.9	-	1.2	
4	4143291	52	24	50	-	<1	-	14.7	65	-	
5	4143292	67	127	92	-	<1	-	16.3	110	-	
6	4143293	74	36	68	-	<1	-	14.2	86	-	
7	4143294	65	18	38	-	<1	-	9.1	57	-	
8	4143295	43	8	21	-	<1	-	7.5	22	-	
9	4143296	43	5	33	-	<1	-	7.8	36	-	
10	4143297	64	156	224	-	<1	2.58	-	208	-	
11	4143298	31	56	264	-	<1	4.50	-	399	-	
12	4143299	23	40	121	-	<1	2.54	-	187	-	
13	4143300	17	15	57	-	<1	-	6.0	321	-	
14	4143301	40	20	108	-	<1	-	10.2	538	-	
15	4143302	17	34	40	-	<1	2.46	-	182	-	
16	4143303	106	284	264	-	<1	-	9.0	618	-	
17	4143304	63	177	114	-	5	-	6.8	257	-	
18	4143305	101	12	108	-	<1	-	11.3	309	-	
19	4143306	127	11	57	-	<1	-	13.5	173	-	
20	4143307	20	12	35	-	<1	4.10	-	148	-	
21	4143308	94	10	152	-	<1	-	11.2	411	-	
22	4143309	69	19	110	-	<1	-	10.7	256	-	
23	4143310	34	11	48	-	<1	-	7.4	60	-	
24	4143311	26	16	28	-	<1	4.78	-	30	-	
25	4143312	53	25	122	-	<1	-	6.9	272	-	

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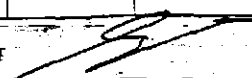
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		13 OF 33	
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)	
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140	
1	4143313	33	12	46	-	<1	-	7.0	86	-	
2	4143314	49	79	308	-	<1	-	6.5	205	-	
3	4143315	53	42	166	-	<1	2.23	-	226	-	
4	4143316	55	39	138	-	<1	-	9.2	322	-	
5	4143317	18	22	32	-	<1	4.31	-	93	-	
6	4143318	61	23	79	-	<1	-	10.9	135	-	
7	4143319	52	18	70	-	<1	-	11.4	159	-	
8	4143320	32	6	77	-	<1	-	6.6	217	-	
9	4143321	60	11	91	-	<1	-	9.0	309	-	
10	4143322	29	21	62	-	<1	-	7.4	199	-	
11	4143323	64	22	160	-	<1	2.92	-	222	-	
12	4143324	58	22	158	-	<1	4.58	-	338	-	
13	4143325	69	20	119	-	<1	-	9.6	303	-	
14	4143326	49	31	76	-	<1	-	13.3	298	-	
15	4143327	96	28	147	-	<1	-	10.7	332	-	
16	4143328	85	31	103	-	<1	-	7.3	247	-	
17	4143329	38	18	81	-	<1	-	9.2	299	-	
18	4143330	25	13	60	-	<1	-	7.3	242	-	
19	4143331	70	26	99	-	<1	-	9.2	280	-	
20	4143332	42	30	94	-	<1	-	6.2	374	-	
21	4143333	58	44	76	-	<1	-	26.9	-	0.7	
22	4143334	61	29	162	-	<1	-	5.3	257	-	
23	4143335	54	8	96	-	<1	-	9.0	402	-	
24	4143336	16	45	29	-	1	-	9.6	137	-	
25	4143337	39	172	87	-	<1	-	12.0	228	-	

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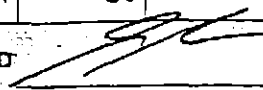
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		14 OF 33	
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)	
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140	
1	4143338	28	62	78	-	<1	3.47	-	211	-	
2	4143339	39	458	122	-	<1	2.72	-	180	-	
3	4143340	46	31	49	-	<1	3.06	-	95	-	
4	4143341	40	29	192	-	<1	-	10.3	637	-	
5	4143342	33	18	67	-	<1	0.59	-	70	-	
6	4143343	40	14	25	-	<1	1.03	-	120	-	
7	4143344	51	45	130	-	1	3.88	-	363	-	
8	4143345	48	29	65	-	<1	1.47	-	107	-	
9	4143346	49	25	80	-	<1	3.57	-	162	-	
10	4143347	82	46	143	-	<1	4.52	-	334	-	
11	4143348	63	29	93	-	<1	-	5.3	232	-	
12	4143349	61	19	115	-	<1	-	9.7	328	-	
13	4143350	65	14	129	-	<1	-	9.3	323	-	
14	4143351	86	18	142	-	<1	-	7.3	291	-	
15	4143352	49	10	33	-	<1	-	12.1	29	-	
16	4143353	199	<3	75	-	<1	-	19.5	38	-	
17	4143354	33	9	52	-	<1	-	10.8	116	-	
18	4143355	47	8	64	-	<1	-	9.7	120	-	
19	4143356	32	26	100	-	<1	4.23	-	258	-	
20	4143357	145	31	118	-	<1	-	11.9	530	-	
21	4143358	55	8	121	-	<1	-	10.1	658	-	
22	4143359	817	856	152	-	4	-	13.7	392	-	
23	4143360	224	26	82	-	<1	-	7.7	253	-	
24	4143361	112	16	35	-	<1	2.15	-	52	-	
25	4143362	38	8	51	-	<1	-	10.4	80	-	

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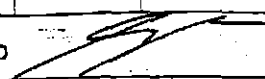
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		15 OF 33	
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)	
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140	
1	4143363	40	6	48	-	<1	-	9.1	72	-	
2	4143364	23	12	60	-	<1	-	11.6	123	-	
3	4143365	42	87	22	-	<1	3.21	-	47	-	
4	4143366	22	118	20	-	<1	4.25	-	34	-	
-	4143367	87	33	126	-	<1	-	13.3	383	-	
5	4143368	86	20	129	-	<1	-	11.6	343	-	
7	4143369	62	14	126	-	<1	-	9.1	366	-	
8	4143370	42	22	98	-	<1	-	6.6	318	-	
9	4143371	64	17	159	-	<1	4.94	-	437	-	
10	4143372	77	17	159	-	<1	3.36	-	358	-	
11	4143373	105	25	193	-	1	4.05	-	357	-	
12	4143374	104	96	189	-	1	4.51	-	443	-	
13	4143375	86	22	173	-	<1	4.03	-	471	-	
14	4143376	14	16	30	-	<1	2.04	-	77	-	
15	4143377	6	19	20	-	<1	1.42	-	57	-	
16	4143378	88	28	57	-	1	-	5.2	100	-	
17	4143379	46	<3	35	-	<1	-	11.1	36	-	
18	4143380	40	12	25	-	<1	-	8.4	33	-	
19	4143381	57	24	134	-	<1	4.14	-	368	-	
20	4143382	89	20	94	-	<1	2.60	-	61	-	
21	4143383	157	464	322	-	<1	-	11.5	106	-	
22	4143384	53	167	183	-	<1	-	6.7	160	-	
23	4143385	74	97	74	-	<1	-	10.4	159	-	
24	4143386	90	41	179	-	<1	-	7.4	247	-	
25	4143387	59	68	135	-	1	-	5.4	259	-	

Results in ppm unless otherwise specified.
-- element not determined.

IS = insufficient sample
SNR = sample not received

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ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104165.60.10739				16/03/95		77231		16 OF 33	
	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)	
METHOD		GA140	GA140	GA140	GA104	GA140	GA140	GA140	GA140	GA140	
1	4143388	52	39	200	-	<1	4.36	-	242	-	
2	4143389	66	36	183	-	<1	-	5.3	256	-	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	2	3	2	0.01	1	0.01	0.1	3	0.1	
25	UNITS	ppm	ppm	ppm	%	ppm	%	%	ppm	%	

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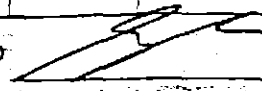
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		17 OF 33	
	SAMPLE No.	Mn	Ca	Cr	Cr(1)	Ni	Au	Au(R)	Pt	Pt(R)	
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316	
1	3757239	-	4	108	-	34	-	-	-	-	
2	3757240	-	<3	48	-	17	-	-	-	-	
3	3757241	-	4	57	-	34	-	-	-	-	
4	3757242	-	<3	55	-	20	-	-	-	-	
5	3757243	-	<3	91	-	11	-	-	-	-	
6	3757244	-	6	101	-	19	-	-	-	-	
7	3757245	-	5	217	-	26	-	-	-	-	
8	3757246	-	7	146	-	28	-	-	-	-	
9	3757247	-	8	130	-	30	-	-	-	-	
10	3757248	-	3	76	-	25	-	-	-	-	
11	3757249	-	8	102	-	29	-	-	-	-	
12	3757250	-	4	69	-	16	-	-	-	-	
13	3757251	-	8	78	-	31	-	-	-	-	
14	3757252	-	15	102	-	39	-	-	-	-	
15	3757253	-	34	4308	-	200	-	-	-	-	
16	3757254	-	33	2803	-	252	-	-	-	-	
17	3757255	-	22	3955	-	373	-	-	-	-	
18	3757256	-	17	-	0.7	73	-	-	-	-	
19	3757257	-	17	420	-	64	-	-	-	-	
20	3757258	-	5	1055	-	31	-	-	-	-	
21	3757259	-	8	820	-	56	-	-	-	-	
22	3757260	-	3	203	-	43	-	-	-	-	
23	3757261	-	<3	114	-	16	-	-	-	-	
24	3757262	-	<3	206	-	5	-	-	-	-	
25	3757263	-	23	134	-	69	-	-	-	-	

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ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104165.60.10739				16/03/95		77231		18 OF 33	
	SAMPLE No.	Mn	Co	Cr	Cr(1)	Ni	Au	Au(R)	Pt	Pt(R)	
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316	
1	3757264	-	11	107	-	42	-	-	-	-	
2	3757265	-	8	92	-	52	-	-	-	-	
3	3757266	-	12	710	-	36	-	-	-	-	
4	3757267	-	12	272	-	108	-	-	-	-	
5	3757268	-	22	141	-	117	-	-	-	-	
6	3757269	-	56	1371	-	192	-	-	-	-	
7	3757270	-	37	4426	-	134	-	-	-	-	
8	3757271	-	16	319	-	75	-	-	-	-	
9	3757272	-	25	258	-	101	-	-	-	-	
10	3757273	-	29	118	-	88	-	-	-	-	
11	3757274	-	16	217	-	45	-	-	-	-	
12	3757275	-	23	280	-	49	-	-	-	-	
13	3757276	-	27	290	-	87	-	-	-	-	
14	3757277	-	24	306	-	83	-	-	-	-	
15	3757278	-	31	94	-	57	-	-	-	-	
16	3757279	-	24	241	-	62	-	-	-	-	
17	3757280	-	28	191	-	102	-	-	-	-	
18	3757281	-	10	196	-	45	-	-	-	-	
19	3757282	-	13	331	-	79	-	-	-	-	
20	3757283	-	<3	182	-	42	-	-	-	-	
21	3757284	-	33	312	-	89	-	-	-	-	
22	3757285	-	18	563	-	55	-	-	-	-	
23	3757286	-	31	305	-	89	-	-	-	-	
24	3757287	-	7	775	-	24	-	-	-	-	
25	3757288	-	8	142	-	25	-	-	-	-	

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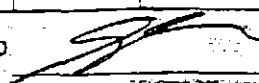
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		19 OF 33	
	SAMPLE No.	Mn	Co	Cr	Cr(1)	Ni	Au	Au(R)	Pt	Pt(R)	
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316	
1	3757289	-	32	244	-	83	-	-	-	-	
2	3757290	-	41	146	-	147	-	-	-	-	
3	3757291	-	3	482	-	29	-	-	-	-	
4	3757292	-	4	454	-	27	-	-	-	-	
5	3757293	-	7	863	-	15	-	-	-	-	
6	3757294	-	5	754	-	10	-	-	-	-	
7	3757295	-	6	1663	-	16	-	-	-	-	
8	3757296	-	69	3759	-	146	-	-	-	-	
9	3757297	-	15	792	-	42	-	-	-	-	
10	3757298	-	49	2268	-	121	-	-	-	-	
11	3757299	-	18	13	-	4	-	-	-	-	
12	3757300	-	29	53	-	30	-	-	-	-	
13	3991653	-	17	196	-	232	-	-	-	-	
14	3991654	-	24	220	-	169	-	-	-	-	
15	3991655	-	54	92	-	99	-	-	-	-	
16	3991656	-	13	170	-	49	-	-	-	-	
17	3991657	-	3	112	-	9	-	-	-	-	
18	3991658	-	<3	165	-	16	-	-	-	-	
19	3991659	-	4	134	-	32	-	-	-	-	
20	3991660	-	6	184	-	41	-	-	-	-	
21	3991661	-	44	91	-	109	-	-	-	-	
22	3991662	-	56	116	-	152	-	-	-	-	
23	3991663	-	57	288	-	250	-	-	-	-	
24	3991664	-	9	188	-	28	-	-	-	-	
25	3991665	-	114	125	-	184	-	-	-	-	

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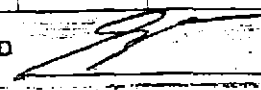
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		20 OF 33	
	SAMPLE No.	Mn	Co	Cr	Cr(1)	Ni	Au	Au(R)	Pt	Pt(R)	
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316	
1	3991666	-	117	121	-	272	-	-	-	-	
2	3991667	-	136	164	-	377	-	-	-	-	
3	3991668	-	116	531	-	985	-	-	-	-	
4	3991669	-	151	191	-	442	-	-	-	-	
5	3991670	-	98	420	-	487	-	-	-	-	
6	3991671	-	21	50	-	66	-	-	-	-	
7	3991672	-	28	72	-	233	-	-	-	-	
8	3991673	-	56	507	-	1692	-	-	-	-	
9	3991674	-	24	92	-	158	-	-	-	-	
10	3991675	-	12	153	-	70	-	-	-	-	
11	3991676	-	18	92	-	57	-	-	-	-	
12	3991677	-	5	71	-	49	-	-	-	-	
13	3991678	-	8	75	-	24	-	-	-	-	
14	3991679	-	4	84	-	21	-	-	-	-	
15	3991680	-	<3	55	-	23	-	-	-	-	
16	3991681	-	<3	96	-	16	-	-	-	-	
17	3991682	-	3	106	-	22	-	-	-	-	
18	3991683	-	4	98	-	20	-	-	-	-	
19	3991684	-	13	167	-	57	-	-	-	-	
20	3991685	-	11	153	-	55	-	-	-	-	
21	3991686	-	3	132	-	56	-	-	-	-	
22	3991687	-	<3	135	-	38	-	-	-	-	
23	3991688	-	<3	118	-	52	-	-	-	-	
24	3991689	-	16	165	-	78	-	-	-	-	
25	3991690	-	11	166	-	41	-	-	-	-	

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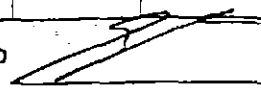
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		21 OF 33	
	SAMPLE No.	Mn	Co	Cr	Cr(1)	Ni	Au	Au(R)	Pt	Pt(R)	
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316	
1	3991691	-	16	163	-	123	-	-	-	-	
2	3991692	-	77	103	-	709	-	-	-	-	
3	3991693	-	22	213	-	257	-	-	-	-	
4	3991694	-	30	177	-	261	-	-	-	-	
5	3991695	-	6	201	-	95	-	-	-	-	
6	3991696	-	28	137	-	490	-	-	-	-	
7	3991697	-	16	208	-	68	-	-	-	-	
8	3991698	-	13	245	-	59	-	-	-	-	
9	3991699	-	60	241	-	328	-	-	-	-	
10	3991700	-	7	61	-	31	-	-	-	-	
11	3991923	-	7	338	-	35	-	-	-	-	
12	3991924	-	4	265	-	31	-	-	-	-	
13	3991925	-	3	232	-	37	-	-	-	-	
14	3991926	-	<3	56	-	7	-	-	-	-	
15	3991927	-	3	119	-	6	-	-	-	-	
16	3991928	-	4	173	-	27	-	-	-	-	
17	3991929	-	3	169	-	29	-	-	-	-	
18	3991930	-	<3	110	-	12	-	-	-	-	
19	3991931	-	7	53	-	50	-	-	-	-	
20	3991932	-	98	301	-	161	-	-	-	-	
21	3991933	-	6	219	-	28	-	-	-	-	
22	3991934	-	5	205	-	20	-	-	-	-	
23	3991935	-	7	170	-	26	-	-	-	-	
24	3991936	-	4	202	-	41	-	-	-	-	
25	3991937	-	3	179	-	35	-	-	-	-	

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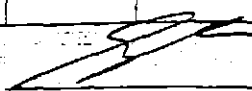
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.			PAGE	
			104165.60.10739			16/03/95		77231			22 OF 33	
	SAMPLE No.	Mn	Co	Cr	Cr(1)	Ni	Au	Au(R)	Pt	Pt(R)		
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316		
1	3991938	-	4	407	-	35	-	-	-	-		
2	3991939	-	5	318	-	30	-	-	-	-		
3	3991940	-	5	174	-	37	-	-	-	-		
4	3991941	-	5	218	-	65	-	-	-	-		
5	3991942	-	<3	52	-	47	-	-	-	-		
6	3991943	-	<3	45	-	47	-	-	-	-		
7	3991944	-	22	85	-	62	-	-	-	-		
8	3991945	-	11	139	-	66	-	-	-	-		
9	3991946	-	3	106	-	18	-	-	-	-		
10	3991947	-	8	88	-	62	-	-	-	-		
11	3991948	-	6	274	-	145	-	-	-	-		
12	3991949	-	16	119	-	69	-	-	-	-		
13	3991950	-	15	120	-	96	-	-	-	-		
14	3991951	-	23	216	-	96	-	-	-	-		
15	3991952	-	10	87	-	51	-	-	-	-		
16	3991953	-	49	248	-	276	-	-	-	-		
17	3991954	-	5	49	-	54	-	-	-	-		
18	3991955	-	6	34	-	48	-	-	-	-		
19	3991956	-	22	66	-	71	-	-	-	-		
20	3991957	-	26	140	-	75	-	-	-	-		
21	3991958	-	3	73	-	50	-	-	-	-		
22	3991959	-	6	53	-	91	-	-	-	-		
23	3991960	-	4	52	-	35	-	-	-	-		
24	3991961	-	11	472	-	42	-	-	-	-		
25	3991962	-	52	212	-	114	-	-	-	-		

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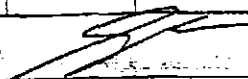
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		23 OF 33	
	SAMPLE No.	Mn	Ca	Cr	Cr(1)	Ni	Au	Au(R)	Pt	Pt(R)	
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316	
1	3991963	-	17	199	-	69	-	-	-	-	
2	3991964	-	29	78	-	104	-	-	-	-	
3	3991965	-	35	258	-	97	-	-	-	-	
4	3991966	-	24	257	-	74	-	-	-	-	
5	3991967	-	4	133	-	79	-	-	-	-	
6	3991968	-	3	412	-	31	-	-	-	-	
7	3991969	-	18	62	-	45	-	-	-	-	
8	3991970	-	7	68	-	26	-	-	-	-	
9	3991971	-	29	352	-	77	-	-	-	-	
10	3991972	-	<3	205	-	24	-	-	-	-	
11	3991973	-	3	68	-	33	-	-	-	-	
12	3991974	-	5	29	-	53	-	-	-	-	
13	3991975	-	16	454	-	55	-	-	-	-	
14	3991976	-	15	454	-	47	-	-	-	-	
15	3991977	-	5	282	-	12	-	-	-	-	
16	3991978	-	24	277	-	68	-	-	-	-	
17	3991979	-	14	81	-	56	-	-	-	-	
18	3991980	-	8	39	-	30	-	-	-	-	
19	3991981	-	4	96	-	37	-	-	-	-	
20	3991982	-	3	67	-	13	-	-	-	-	
21	3991983	-	<3	47	-	28	-	-	-	-	
22	3991984	-	135	277	-	6213	0.078	0.084	0.10	0.14	
23	3991985	-	14	44	-	56	-	-	-	-	
24	3991986	-	40	197	-	108	-	-	-	-	
25	3991987	-	17	247	-	81	-	-	-	-	

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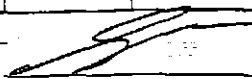
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		24 OF 33	
	SAMPLE No.	Mn	Co	Cr	Cr(1)	Ni	Au	Au(R)	Pt	Pt(R)	
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316	
1	3991988	-	16	122	-	69	-	-	-	-	
2	3991989	-	4	40	-	31	-	-	-	-	
3	3991990	-	9	55	-	61	-	-	-	-	
4	3991991	-	6	216	-	28	-	-	-	-	
5	3991992	-	7	119	-	59	-	-	-	-	
6	3991993	-	10	166	-	39	-	-	-	-	
7	3991994	-	9	131	-	76	-	-	-	-	
8	3991995	-	13	441	-	39	-	-	-	-	
9	3991996	-	10	159	-	37	-	-	-	-	
10	3991997	-	<3	298	-	17	-	-	-	-	
11	3991998	-	7	231	-	40	-	-	-	-	
12	3991999	-	<3	179	-	15	-	-	-	-	
13	3992000	-	<3	220	-	39	-	-	-	-	
14	4143201	-	20	139	-	104	-	-	-	-	
	4143202	-	36	801	-	345	-	-	-	-	
16	4143203	-	19	286	-	136	-	-	-	-	
17	4143204	-	12	104	-	44	-	-	-	-	
18	4143205	-	25	213	-	93	-	-	-	-	
19	4143206	-	<3	71	-	11	-	-	-	-	
20	4143207	-	51	638	-	293	-	-	-	-	
21	4143208	-	18	143	-	56	-	-	-	-	
22	4143209	-	50	163	-	74	-	-	-	-	
23	4143210	-	7	173	-	19	-	-	-	-	
24	4143211	-	8	159	-	35	-	-	-	-	
25	4143212	-	3	151	-	12	-	-	-	-	

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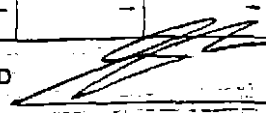
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		25 OF 33	
	SAMPLE No.	Mn	Co	Cr	Cr(1)	Ni	Au	Au(R)	Pt	Pt(R)	
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316	
1	4143213	-	5	207	-	17	-	-	-	-	
2	4143214	-	177	240	-	289	-	-	-	-	
3	4143215	-	116	231	-	246	-	-	-	-	
4	4143216	-	63	243	-	149	-	-	-	-	
5	4143217	-	57	381	-	131	-	-	-	-	
6	4143218	-	108	918	-	560	-	-	-	-	
7	4143219	-	108	590	-	223	-	-	-	-	
8	4143220	-	21	4603	-	54	-	-	-	-	
9	4143221	-	122	-	0.7	309	-	-	-	-	
10	4143222	-	36	650	-	163	-	-	-	-	
11	4143223	-	67	342	-	133	-	-	-	-	
12	4143224	-	47	435	-	129	-	-	-	-	
13	4143225	-	29	563	-	101	-	-	-	-	
14	4143226	-	22	720	-	84	-	-	-	-	
15	4143227	-	16	131	-	61	-	-	-	-	
16	4143228	-	15	385	-	137	-	-	-	-	
17	4143229	-	43	426	-	85	-	-	-	-	
18	4143230	-	16	612	-	52	-	-	-	-	
19	4143231	-	24	183	-	95	-	-	-	-	
20	4143232	-	68	781	-	566	-	-	-	-	
21	4143233	-	116	168	-	633	-	-	-	-	
22	4143234	-	104	690	-	699	-	-	-	-	
23	4143235	-	12	257	-	75	-	-	-	-	
24	4143236	-	7	216	-	145	-	-	-	-	
25	4143237	-	8	137	-	43	-	-	-	-	

Results in ppm unless otherwise specified.
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ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		26 OF 33	
	SAMPLE No.	Mn	Co	Cr	Cr(1)	Ni	Au	Au(R)	Pt	Pt(R)	
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316	
1	4143238	-	5	289	-	69	-	-	-	-	
2	4143239	-	5	496	-	106	-	-	-	-	
3	4143240	-	4	220	-	78	-	-	-	-	
4	4143241	-	5	196	-	91	-	-	-	-	
5	4143242	-	4	234	-	88	-	-	-	-	
6	4143243	-	3	772	-	463	-	-	-	-	
7	4143244	-	3	173	-	57	-	-	-	-	
8	4143245	-	11	182	-	45	-	-	-	-	
9	4143246	-	3	164	-	55	-	-	-	-	
10	4143247	-	<3	247	-	12	-	-	-	-	
11	4143248	-	4	221	-	46	-	-	-	-	
12	4143249	-	3	185	-	37	-	-	-	-	
13	4143250	-	<3	104	-	17	-	-	-	-	
14	4143251	-	<3	104	-	17	-	-	-	-	
15	4143252	-	24	223	-	82	-	-	-	-	
16	4143253	-	4	171	-	21	-	-	-	-	
17	4143254	-	24	240	-	87	-	-	-	-	
18	4143255	-	14	273	-	75	-	-	-	-	
19	4143256	-	14	194	-	49	-	-	-	-	
20	4143257	-	8	109	-	103	-	-	-	-	
21	4143258	-	39	466	-	370	-	-	-	-	
22	4143259	-	11	223	-	174	-	-	-	-	
23	4143260	-	14	183	-	130	-	-	-	-	
24	4143261	-	11	217	-	70	-	-	-	-	
25	4143262	-	19	200	-	66	-	-	-	-	

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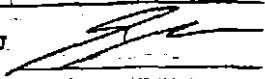
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		27 OF 33	
	SAMPLE No.	Mn	Co	Cr	Cr(1)	Ni	Au	Au(R)	Pt	Pt(R)	
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316	
1	4143263	-	10	169	-	47	-	-	-	-	
2	4143264	-	16	350	-	149	-	-	-	-	
3	4143265	-	36	469	-	292	-	-	-	-	
4	4143266	-	11	283	-	103	-	-	-	-	
5	4143267	-	40	1600	-	896	-	-	-	-	
6	4143268	-	22	150	-	81	-	-	-	-	
7	4143269	-	11	234	-	42	-	-	-	-	
8	4143270	-	7	148	-	21	-	-	-	-	
9	4143271	-	101	184	-	392	-	-	-	-	
10	4143272	19.10	251	236	-	119	-	-	-	-	
11	4143273	-	56	281	-	128	-	-	-	-	
12	4143274	-	71	110	-	150	-	-	-	-	
13	4143275	-	145	139	-	312	-	-	-	-	
14	4143276	-	34	153	-	122	-	-	-	-	
15	4143277	-	26	198	-	125	-	-	-	-	
16	4143278	-	26	129	-	107	-	-	-	-	
17	4143279	-	61	180	-	142	-	-	-	-	
18	4143280	-	8	188	-	95	-	-	-	-	
19	4143281	-	9	86	-	53	-	-	-	-	
20	4143282	-	13	241	-	42	-	-	-	-	
21	4143283	-	13	135	-	73	-	-	-	-	
22	4143284	-	20	123	-	60	-	-	-	-	
23	4143285	-	14	140	-	59	-	-	-	-	
24	4143286	-	5	177	-	17	-	-	-	-	
25	4143287	-	4	149	-	17	-	-	-	-	

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ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.			PAGE	
			104165.60.10739			16/03/95		77231			28 OF 33	
	SAMPLE No.	Mn	Co	Cr	Cr(L)	Ni	Au	Au(R)	Pt	Pt(R)		
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316		
1	4143288	-	10	210	-	32	-	-	-	-		
2	4143289	-	4	108	-	13	-	-	-	-		
3	4143290	-	144	193	-	60	-	-	-	-		
4	4143291	-	6	181	-	10	-	-	-	-		
5	4143292	-	18	225	-	24	-	-	-	-		
6	4143293	-	11	170	-	33	-	-	-	-		
7	4143294	-	6	170	-	15	-	-	-	-		
8	4143295	-	3	176	-	10	-	-	-	-		
9	4143296	-	3	208	-	14	-	-	-	-		
10	4143297	-	13	184	-	85	-	-	-	-		
11	4143298	-	22	181	-	57	-	-	-	-		
12	4143299	-	7	166	-	33	-	-	-	-		
13	4143300	-	12	157	-	38	-	-	-	-		
14	4143301	-	29	184	-	92	-	-	-	-		
	4143302	-	8	130	-	33	-	-	-	-		
16	4143303	-	15	206	-	90	-	-	-	-		
17	4143304	-	15	249	-	98	-	-	-	-		
18	4143305	-	21	306	-	94	-	-	-	-		
19	4143306	-	14	307	-	101	-	-	-	-		
20	4143307	-	7	695	-	25	-	-	-	-		
21	4143308	-	33	241	-	83	-	-	-	-		
22	4143309	-	21	590	-	78	-	-	-	-		
23	4143310	-	6	99	-	26	-	-	-	-		
24	4143311	-	4	68	-	22	-	-	-	-		
25	4143312	-	19	321	-	69	-	-	-	-		

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ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		29 OF 33	
	SAMPLE No.	Mn	Co	Cr	Cr(1)	Ni	Au	Au(R)	Pt	Pt(R)	
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316	
1	4143313	-	8	121	-	27	-	-	-	-	
2	4143314	-	27	346	-	143	-	-	-	-	
3	4143315	-	16	841	-	76	-	-	-	-	
4	4143316	-	27	440	-	78	-	-	-	-	
5	4143317	-	6	51	-	11	-	-	-	-	
6	4143318	-	13	145	-	52	-	-	-	-	
7	4143319	-	14	602	-	66	-	-	-	-	
8	4143320	-	15	147	-	46	-	-	-	-	
9	4143321	-	24	411	-	64	-	-	-	-	
10	4143322	-	13	419	-	44	-	-	-	-	
11	4143323	-	27	429	-	112	-	-	-	-	
12	4143324	-	28	1396	-	92	-	-	-	-	
13	4143325	-	24	535	-	84	-	-	-	-	
14	4143326	-	14	492	-	47	-	-	-	-	
15	4143327	-	24	449	-	106	-	-	-	-	
16	4143328	-	21	471	-	76	-	-	-	-	
17	4143329	-	18	275	-	49	-	-	-	-	
18	4143330	-	10	465	-	25	-	-	-	-	
19	4143331	-	21	530	-	71	-	-	-	-	
20	4143332	-	18	185	-	47	-	-	-	-	
21	4143333	-	108	428	-	27	-	-	-	-	
22	4143334	-	28	179	-	83	-	-	-	-	
23	4143335	-	23	218	-	85	-	-	-	-	
24	4143336	-	5	150	-	16	-	-	-	-	
25	4143337	-	9	153	-	36	-	-	-	-	

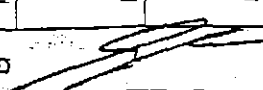
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ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		30 OF 33	
	SAMPLE No.	Mn	Co	Cr	Cr(1)	Ni	Au	Au(R)	Pt	Pt(R)	
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316	
1	4143338	-	7	132	-	27	-	-	-	-	
2	4143339	-	4	55	-	35	-	-	-	-	
3	4143340	-	9	98	-	28	-	-	-	-	
4	4143341	-	29	158	-	87	-	-	-	-	
5	4143342	-	<3	52	-	11	-	-	-	-	
6	4143343	-	<3	302	-	6	-	-	-	-	
7	4143344	-	20	224	-	73	-	-	-	-	
8	4143345	-	7	395	-	73	-	-	-	-	
9	4143346	-	13	378	-	110	-	-	-	-	
10	4143347	-	25	348	-	113	-	-	-	-	
11	4143348	-	18	241	-	122	-	-	-	-	
12	4143349	-	21	561	-	102	-	-	-	-	
13	4143350	-	22	364	-	91	-	-	-	-	
14	4143351	-	24	277	-	129	-	-	-	-	
	4143352	-	<3	138	-	58	-	-	-	-	
16	4143353	-	<3	603	-	154	-	-	-	-	
17	4143354	-	10	174	-	43	-	-	-	-	
18	4143355	-	10	159	-	46	-	-	-	-	
19	4143356	-	11	354	-	45	-	-	-	-	
20	4143357	-	8	103	-	106	-	-	-	-	
21	4143358	-	22	71	-	89	-	-	-	-	
22	4143359	-	21	280	-	114	-	-	-	-	
23	4143360	-	9	93	-	103	-	-	-	-	
24	4143361	-	<3	53	-	39	-	-	-	-	
25	4143362	-	10	107	-	42	-	-	-	-	

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ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		31 OF 33	
	SAMPLE No.	Mn	Co	Cr	Cr(1)	Ni	Au	Au(R)	Pt	Pt(R)	
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316	
1	4143363	-	7	80	-	32	-	-	-	-	
2	4143364	-	11	147	-	41	-	-	-	-	
3	4143365	-	<3	51	-	6	-	-	-	-	
4	4143366	-	<3	82	-	8	-	-	-	-	
5	4143367	-	27	485	-	66	-	-	-	-	
6	4143368	-	26	294	-	101	-	-	-	-	
7	4143369	-	29	278	-	100	-	-	-	-	
8	4143370	-	19	253	-	72	-	-	-	-	
9	4143371	-	25	479	-	131	-	-	-	-	
10	4143372	-	32	331	-	91	-	-	-	-	
11	4143373	-	46	1260	-	124	-	-	-	-	
12	4143374	-	33	262	-	109	-	-	-	-	
13	4143375	-	36	342	-	111	-	-	-	-	
14	4143376	-	4	321	-	28	-	-	-	-	
15	4143377	-	<3	13	-	18	-	-	-	-	
16	4143378	-	4	65	-	55	-	-	-	-	
17	4143379	-	<3	64	-	25	-	-	-	-	
18	4143380	-	<3	44	-	23	-	-	-	-	
19	4143381	-	17	214	-	73	-	-	-	-	
20	4143382	-	26	99	-	57	-	-	-	-	
21	4143383	-	10	118	-	60	-	-	-	-	
22	4143384	-	8	116	-	55	-	-	-	-	
23	4143385	-	7	169	-	39	-	-	-	-	
24	4143386	-	23	315	-	110	-	-	-	-	
25	4143387	-	12	320	-	65	-	-	-	-	

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ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10739			16/03/95		77231		32 OF 33	
	SAMPLE No.	Mn	Co	Cr	Cr(1)	Ni	Au	Au(R)	Pt	Pt(R)	
METHOD		GA104	GA140	GA140	GA140	GA140	GG316	GG316	GG316	GG316	
1	4143388	-	21	276	-	75	-	-	-	-	
2	4143389	-	43	108	-	75	-	-	-	-	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	0.01	3	7	0.1	3	0.005	0.005	0.05	0.05	
25	UNITS	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	

Results in ppm unless otherwise specified
 - = element not determined

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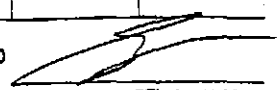
ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.		REPORT DATE		CLIENT ORDER No.		PAGE	
		104165.60.10739		16/03/95		77231		33 OF 33	
	SAMPLE No.	Pd	Pd(R)						
METHOD		GG316	GG316						
1	3991984	0.212	0.220						
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24	DETECTION	0.005	0.005						
25	UNITS	ppm	ppm						

Results in ppm unless otherwise specified
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APPENDIX III
DRILL HOLE LOGS, GEOCHEMICAL SAMPLE LEDGER, AND LABORATORY
REPORTS

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10-5 SD)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
0.00	2.30			Pre collar							
2.30	3.00	90	HQ	2.30 - 3.00m Light grey/green shale. Banded fissile with green clots (chlorite?) particularly on fracture plane. Orange Fe staining on fractures. Moderately competent core.	b	65°	2.6				
3.00	4.40	86	HQ	3.20 - 11.75m Light grey/grey shale interbedded with greywacke and black shale. Core competency varies from highly broken to plastic. At 7.2m and 8.2 m greywacke with wisps of black shale grading to laminations. At 8.6m shale with fine laminations of Py.	fr	10°	3.1				
4.40	5.00	77	HQ		b	65°	3.1				
5.00	6.00	90	HQ		b	60°	4.1				
6.00	7.50	93	HQ		b	70°	6.20				
7.50	9.00	93	HQ		fr	0°	8.60				
9.00	10.40	86	HQ		fr	25°	11.30				
10.40	11.85	76	HQ								
11.85	13.00	91	HQ	11.75 - 15.35m Light green greywacke with interbedded dark and light grey shale. Greywacke mostly massive with trace py. Strongly cleaved in two main directions. Light green shale contain wispy black clasts (black shale?). Common clasts (up to 4 x 1 cm but generally 1 cm) of angular to subrounded laminated dark grey shale with up 50% Py with minor Po. Core moderately competent with a few mushy zones.	b	90°	12.90				
13.00	14.15	91	HQ		cl	45°	12.90				
14.15	15.00	88	HQ		cl	25°	12.90				
15.00	16.50	93	HQ	15.35 - 16.50m Dark grey shale with minor interbeds of light grey greywacke with fine black wispy clasts of black shale as above. Core very broken and soft.	contact	35°	15.35				
					b? to?	65°	15.45				
16.50	18.00	100	HQ	16.50 - 21.70m Light grey greywacke with interbedded dark and light grey shale similar to 11.75 - 15.35m. Core broken mainly on cleavage planes. Py on cleavage planes. Clasts of subrounded dark and light grey shale in greywacke. Also diffuse circular clots up to 1 cm containing 50 - 100% Py. Quartz filled fault zone at 21.1m.	b?	90°	16.90				
18.00	19.50	93	HQ		b?	90°	16.90				
19.50	20.75	100	HQ		cl	25°	18.40				
20.75	21.60	94	HQ		cl	25°	19.60				
					cl	40°	19.70				
21.60	22.85	68	HQ	21.70 - 26.15m Banded dark and light grey shale with interbedded green greywacke containing elliptical clasts of black shale up to 5 x 1cm. Core mostly broken. Py aggregates in fractures. Quartz filled shear at 22.9m.	b	75°	21.70				
22.85	23.80	95	HQ								
23.80	25.35	90	HQ								
25.35	26.00	100	HQ								

305249

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10-5 SD)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
26.00	27.00	85	IIQ	26.15 - 30.60m Light green and grey shale interbedded with light green greywacke. Cross bedding indicate core right way up. Fairly competent core with minor broken zones. At 26.4m, 20% Py in fault zone. From 30.2m core becomes vuggy aligned along bedding plane. Chlorite in fracture planes.	contact	70°	26.15	3991801	26.15	30.60	28
27.00	27.70	100	IIQ		b	70°	29.85				
27.70	28.90	83	IIQ		fr	45°	30.10				
28.90	30.00	100	IIQ		fr	70°	30.10				
28.90	31.50	87	IIQ	30.60 - 31.30m Transition zone. Sheared and vuggy laminated pale pink shale. Fine green veins cross cut shale laminations. Chlorite and Py in fracture planes.	vn	55°	31.00	3991802	30.60	31.30	10
31.50	33.00	100	IIQ	31.30 - 36.70m Interbedded red brown shale and greywacke. Along some fractures colour changes to green. Mainly competent core. Broken zones at 35.3 and 35.6m. Quartz chlorite sericite filled fault zone at 34.0m. From 36.05m, seven yellow green vuggy clay bands (weathered gabbro?) up to 8mm wide.	b	85°	31.65	3991803	31.30	33.90	25
33.00	34.40	93	IIQ		fr	45°	31.80	3991804	33.90	36.70	20
34.40	35.90	100	IIQ		b	75°	34.90				
35.90	36.70	94	IIQ		b	75°	36.05				
					fr	75°	36.05				
36.70	37.80	100	IIQ	36.70 - 38.70m Pale green equivalent to 31.3-36.7m. Possible contact metamorphic zone. Vuggy and very fracture core. Vugs aligned along bedding plane probably after Py crystals. Very broken core from 37.6m. Last 5cm banded pink shale.	b	88°	37.40	3991805	36.70	38.70	25
37.80	38.35	91	IIQ					3757218*	37.00		
								3757219*	38.50		
38.35	39.90	97	IIQ	38.70 - 39.90m Banded/mottled green/pink gabbro. Consists of pink and white felspar, dark green/black pyroxene, weathered yellow olivine relics and biotite. Fine grained and finely laminated. Competent core with vuggy quartz filled fractures. Very fine grained disseminated sulphides mainly Py with some white Ni? sulphides. Rare rounded ultramafic clasts.	contact	90°	38.70	3991806	38.70	39.90	40
					fr	20°	39.20	3757220*	38.70		
39.90	40.65	100	IIQ	39.90 - 41.25m Mottled green/yellow medium - coarse grained gabbro with minor puggy zones associated with fractures. Olivine crystals have weathered to yellow clay. Very fine wispy dark green veins pass through the core sometimes forming clots (very fine grained pyroxene?). The core contains ~1% sulphides mainly pale yellow Py with white Ni? sulphides. In addition rare white sulphide lathes were observed. Fairly competent core broken on fracture planes. At least three different fracture planes were observed. No increase in sulphides on the fracture planes.	fr	15°	41.05	3991807	39.90	41.25	15
40.65	41.55	100	IIQ		fr	18°	41.05				
					fr	30°	41.05				

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CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10 - 5 SD)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
48.00	49.20	100	HQ	48.50 - 49.20m Massive sulphide zone consisting of predominantly Po, Cp and Py. Top and bottom 5cm are dominated by Cp. Black clots up to 1.5mm occur on fracture plane (chalcocite?). The mineralisation is banded (foliation) through out the zone. Bottom contact of massive sulphide irregular and sub parallel to foliation plane.	contact	90°	48.50	3991815	48.50	49.20	4000
					fr	7°	48.70	3757223*	48.50	48.60	
					fo	75°	4.80		48.90		
				49.20 - 49.70m Green breccia zone. Fine grained gabbro with subangular clasts of grey shale. Very fine grained disseminated white sulphides. Quartz/pale yellow carbonate veins up to 1cm wide predominantly along fracture planes. Competent core.	fo	85°	49.40	3991816	49.20	49.70	55
					fr	35°	49.40	3757224*	49.20		
								3757225*	49.30		
49.20	50.74	100	HQ	49.70 - 54.10m Banded green/grey/dark grey shale with minor interbedded grey greywacke and black shale. Trace Py with very fine white sulphide (Ga?) grains within shale. Approximately 5 - 10% Py within the black shale in the groundmass as well as bands up to 5mm wide. Graded bedding indicate core right way up. Numerous offsets of laminations due to minor faulting. Between 50.5 - 50.7m mottled/banded black and white laminations similar in texture to upper contact of gabbro. Very broken core from 50.5m. Quartz, chlorite and Py on fracture planes.	vn	35°	49.70	3991817	49.70	54.10	25
50.74	51.95	100	HQ		fr	37°	50.40				
51.95	52.75	100	HQ		b	90°	50.50				
52.75	53.80	95	HQ		b	80°	51.00				
53.80	54.70	95	HQ		b	80°	53.90				
54.70	55.65	95	HQ	54.10 - 60.00m Predominately grey massive greywacke with minor interbedded dark grey/grey laminated shale. The greywacke contains black wisps 1 - 4 mm long and trace Py. Approximately 2 - 3% disseminated Py within the shale. Between 59.15 - 60.00m the greywacke and black shale are in chaotic contact suggestive of a debris flow. Some pale yellow carbonate veins. Broken core.	fr	50°	56.00	3991818	54.10	57.00	25
55.65	56.45	95	HQ		fr	20°	56.00	3991819	57.00	60.00	24
56.45	57.00	95	HQ		b	70°	57.50				
57.00	57.50	95	HQ		fr	22°	58.10				
57.50	58.75	95	HQ		b?	90°	58.55				
58.75	59.70	95	HQ	60.00 - 62.25m Pale brown shale interbedded with pale brown greywacke. Greywacke contain minor amounts of subangular pale brown shale clasts. Core crumbly and heavily veined (carbonate, quartz, Sp, Py and Ga). Puggy broken core (fault zone?) with black shale at 60.6 - 61.05m and 61.6 - 61.8m. Many minor offsets in shale due to faulting.	b	35°	60.25	3991820	60.00	62.25	15
59.70	61.05	90	HQ		b	45°	61.30				
61.05	62.25	100	HQ		b	65°	62.10				

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10-5 SI)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
0.00	2.00			Pre collar							
2.00	3.00	75	HQ	2.00 - 4.35m Light green laminated shale.	b	55°	3.30				
3.00	4.10	82	HQ	Minor purple and black banding. Core very broken on fracture planes.	b	50°	4.20				
				Chlorite on fracture plane. Py crystals up to 5mm mainly in the top of the section.	fr	10°	4.20				
4.10	5.30	80	HQ	4.35 - 8.60m Predominantly dark grey and grey shale	b	55°	6.30				
5.30	6.00	64	HQ	interbedded with minor amounts of light green greywacke. Fine wispy	fr	30°	6.45				
6.00	7.20	88	HQ	black clasts (black shale) parallel to bedding within the greywacke. Very							
7.20	8.20	85	HQ	crumbly core broken on fracture planes. Trace Py.							
8.20	9.00	100	HQ	8.60 - 16.65m Light green greywacke with interbedded green/	b	80°	8.85	3991821	15.55	16.65	12
9.00	10.25	96	HQ	dark grey/grey shale. Greywacke mostly massive with subangular to sub	fr	20°	11.15				
10.25	10.80	100	HQ	rounded clasts of green shale and black wisps of black shale. At 12.0m	b	55°	12.05				
10.80	12.00	100	HQ	irregular clasts of laminated dark grey shale have been incorporated in the	fr	15°	12.85				
12.00	13.20	92	HQ	greywacke suggestive of soft sediment deformation. Cross bedding	fr	7°	13.95				
13.20	13.90	79	HQ	indicate bedding right way up. At 15.7m, a 3cm quartz-Sp-Py-Ga vein occurs	fr	35°	13.95				
13.90	15.00	100	HQ	within the greywacke. Between 15.65 - 16.65m Sp (~1mm dark red crystals),	fr	40°	13.95				
15.00	15.70	93	HQ	quartz, Py and trace Ga on fracture planes. Core broken on fracture planes.	fr	45°	14.85				
					fr	65°	15.05				
15.70	16.90	100	HQ	16.65 - 19.05m Predominantly dark grey and grey shale	b	90°	16.50				
16.90	17.90	100	HQ	interbedded with minor amounts of light green greywacke as 4.35 - 8.60m.	b/fr	60°	18.05				
17.90	19.40	87	HQ	At 17.0m suggestion of greywacke dyke disrupting shale laminations. At	b	55°	18.40				
				18.95m, quartz vein with trace Sp. Core broken.	fr	65°	18.40				
					vn	50°	18.95				
19.40	21.00	95	HQ	19.05 - 22.20m Light green greywacke with interbedded green/	fr	25°	19.70				
21.00	22.50	100	HQ	dark grey/grey shale as 8.60 - 16.65m. Minor irregular clasts of black shale	cl	40°	19.70				
				up to 2 x 0.8cm.	fr	10°	20.15				
22.50	24.00	100	HQ	22.20 - 27.85m Predominantly dark grey and grey shale	b	65°	22.55				
24.00	25.50	100	HQ	interbedded with minor amounts of light green greywacke as 16.65 - 19.05m.	b	55°	25.00				
25.50	27.00	100	HQ	Shale heavily faulted and with irregular fracture planes. Py aggregates in	b	75°	26.20				
27.00	28.20	95	HQ	fracture planes common. Trace Sp and Ga on fracture plane at 27.15m.	b	70°	26.50				
				Bands within black shale contains ~10% fine grained Py. Subangular to	b	60°	27.00				
				subrounded clasts of light green, dark grey and black shale within							
				greywacke. Core fairly competent.							

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10 - 5 SI)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
28.20	29.20	95	IIQ	27.85 - 34.50m	b	70°	28.90	3991822	27.86	30.00	25
29.20	30.00	95	IIQ	grey shale and light green greywacke. Majority of shale disrupted by	vn	70°	30.55	3991823	30.00	34.50	30
30.00	31.50	100	IIQ	faulting. Aggregates of Py up to 1cm in bedding and fracture planes. Broken	fr	20°	31.90				
31.50	33.00	100	IIQ	core to 30.0m. Chlorite in fracture planes. At 30.55m, 5mm pale yellow vein	fr	20°	31.90				
33.00	34.60	100	IIQ	(quartz and carbonate) subparallel to bedding.	fr/b	60°	33.70				
34.60	36.60	70	IIQ	34.50 - 36.75m	b	45°	34.80	3991824	34.50	36.75	20
				Transition zone - Banded pale pink/purple shale	vn	40°	35.20				
				with pale yellow wispy veins subparallel to bedding. In addition, vuggy	vn	35°	35.40				
				quartz, Py veins common through section. Laminations disrupted by	b	60°	36.45				
				faulting. Colour changes to green around fracture planes. Chlorite and Py in							
				fracture planes. Core broken on vein, bedding and fracture planes.							
36.60	37.25	215	IIQ	36.75 - 40.35m	b	68°	38.80	3991825	36.75	40.35	22
37.25	38.70	100	IIQ	Red brown greywacke interbedded brown shale	fr	50°	38.80				
38.70	40.30	100	IIQ	Along some fractures colour changes to green. Mainly competent core to	b	65°	39.60				
40.30	41.80	100	IIQ	39.7m. Some fine quartz filled fractures and puggy fault zones.	vn	70°	40.35	3991826	40.35	42.65	10
41.80	42.65	88	IIQ	40.35 - 42.65m	b/vn	70°	41.20				
				Pale green equivalent to 36.75 - 40.35m with	b	65°	41.60				
				10% Py (1.5 x 1.5mm) aligned along bedding plane. Vugs alter Py crystals.	b	55°	42.50				
				Py and chlorite on fracture planes. Yellow green vuggy clay bands							
				(weathered gabbro?) up to 8mm wide parallel to bedding. Mainly competent							
				core broken on on bedding plane.							
42.65	44.10	100	IIQ	42.65 - 43.50m	fr	5°	42.65	3991827	42.65	43.50	18
				Mottled green/white fine grained gabbro.	fr	25°	42.65	3757233*	43.20		
				Consists of white feldspar, green/black hornblende, weathered yellow olivine							
				relics and biotite. Competent core with vuggy quartz filled fractures. Py							
				crystals, (1mm) at top of section. Approximately 5% disseminated pale							
				yellow (Py) and white (Ni) sulphides.							
				43.50 - 44.40m	vn	65°	44.35	3991828	43.50	44.40	40
				Mottled green/white/grey medium grained							
				gabbro with minor puggy zones associated with fractures. Similar to 46.20 -							
				46.80m in DD94MF01. The gabbro contains ~5 - 10% disseminated							
				sulphides mainly pale yellow Py with white Ni? sulphides. Rare							
				rounded ultramafic clasts. Fairly competent core.							
44.10	45.00	94	IIQ	44.40 - 45.20m	vn/fr	60°	44.45	3991829	44.40	45.20	12
				Mottled green/white coarse grained gabbro	fr	65°	45.00				
				similar to 46.80 - 47.75m in DD94MF01. Extremely fine grained disseminated							
				sulphides (~ 2%) consisting of Py, and white Ni? sulphides. Numerous dark							
				green veins (chlorite?) particularly at the bottom of the section. Pink feldspar							
				crystals adjacent to fractures suggest potassic alteration. Fairly competent core.							

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10 - 5 SI)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
45.00	45.95	95	11Q	45.20 - 48.00m Mottled green/white medium grained gabbro.	fr	5°	46.10	3991830	45.20	46.50	24
45.95	47.00	95	11Q	Contains 2 - 4% disseminated sulphides mainly Py. A prominent low angle	fr	45°	47.00	3991831	46.50	48.00	25
47.00	48.00	100	11Q	fracture filled with 2mm wide, extremely fine grained, black, moderately hard	fr	55°	47.30				
				mineral (actinolite? chlorite?) between 45.6 - 46.2m. Mainly broken core.							
				Last 10cm of section is very broken with an increase in quartz veining and							
				associated Py suggestive of a shear.							
48.00	49.50	100	11Q	48.00 - 49.00m Light green shale interbedded with grey shale				3991832	48.00	49.00	22
				and minor light green greywacke. Sediment disrupted suggestive of soft							
				sediment deformation. Black shale with slickensides at top of section. Sp, Py							
				and Ga within shale and on fractures. Moderately competent core.							
49.50	50.50	75	11Q	49.00 - 53.00m Light green greywacke with minor light green/	l	80°	52.40	3991833	49.00	53.00	28
50.50	51.65	87	11Q	grey shale. Very broken core. Numerous quartz and Py filled fractures.							
51.65	53.20	90	11Q	At 51.0 and 51.7, red/brown tetrahedral sulphide crystals in fractures							
				(marcasite? terahedrite?). Minor carbonate/quartz veins containing trace Py,							
				Sp and Ga. Greywacke contains trace Py. Shale contains up to 10%							
				disseminated sulphides including yellow sulphide needles at 51.0m.							
53.20	54.00	100	11Q	53.00 - 54.00m Light green shale interbedded with grey shale				3991834	53.00	54.00	25
				with minor light green greywacke. Bedding disrupted. Py clots in fractures.							
				Moderately competent core broken on fracture planes.							
54.00	55.50	100	11Q	54.00 - 57.90m Light green shale and greywacke in irregular	b	70°	53.10	3991835	54.00	57.90	35
55.50	57.00	97	11Q	fault contact with black shale with clasts of light green greywacke similar to	vn	60°	55.60				
				59.15 - 60.00m in DD94MF01. Fault sub parallel to core axis. Common pale							
				yellow carbonate/quartz veins with trace Sp, Py and Ga. Black shale							
				contains up to 10% Py in ground mass as well as subrounded clasts of							
				100% sulphides dominated by sulphides. Between 55.50 - 55.80m, black							
				shale faulted against light brown greywacke similar to bottom of							
				DD94MF01. Moderately competent core.							
57.00	58.50	100	11Q	57.90 - 59.40m Light green/grey shale irregularly interbedded	l	45°	55.80	3991836	57.90	59.40	32
58.50	60.00	93	11Q	with minor greywacke. Pale yellow carbonate vein common particularly at	fr/vn	10°	57.00				
				bottom of section. Competent core.	vn	40°	58.60				
				59.40 - 60.35m Light brown shale similar to 55.50 - 55.80m.				3991837	59.40	60.35	25
				Heavily veined and fractured with 2 - 4% Py, Cp, Sp & Ga. Very broken core.							

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10 - 5 SI)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
60.00	61.50	100	HQ	60.35 - 65.95m Green and brown shale and greywacke similar to 36.75 - 42.65m. Up to 15% Py disseminated Py within green shale.	b	65°	64.05	3991838	60.35	63.00	30
61.50	63.00	99	HQ	Abundant pyrite filled fractures and pale yellow carbonate quartz veins up to 1cm wide associated with Py, Sp, Ga and chlorite. Fairly competent core.	vn	12°	64.05	3991839	63.00	65.95	30
63.00	64.50	100	HQ		b	65°	65.20				
64.50	66.00	100	HQ		vn	55°	65.20				
					vn	35°	65.90				
66.00	67.50	97	HQ	65.95 - 69.10m Light brown shale and greywacke similar to 59.40 - 60.35m interbedded with green shale. Bedding disrupted by soft sediment deformation. Abundant pale yellow carbonate/quartz veins including rhodochrosite. Sp, Ga and Py associated with carbonate veining particularly 66.2 and 66.8m. Core very broken core adjacent to veining. Fractures filled with chlorite and sulphides, mainly Py.	b	55°	66.60	3991840	65.95	69.10	25
67.50	68.50	95	HQ		b	55°	66.75				
					vn	30°	66.80				
					fr	10°	68.20				
68.50	70.00	97	HQ	69.10 - 76.40m Green and brown greywacke and shale similar to 60.35 - 65.95m disrupted by soft sediment deformation. Core cut by low angle chlorite filled fractures and calcite veins with disseminated sulphides (~1 - 2% Cp, Py and hexagonal Po) between 69.1 - 72.6m. Predominantly brown greywacke from 72.6m with trace Cp and Py.	fr	5°	69.20	3991841	69.10	73.00	30
70.00	71.55	97	HQ		vn	20°	70.40	3991842	73.00	76.40	30
71.55	73.05	100	HQ		fr	5°	72.70				
73.05	75.00	97	HQ		fr	20°	73.35				
75.00	75.55	91	HQ		b?	35°	74.90				
75.55	76.60	95	HQ		b	50°	76.10				
76.60	77.30	100	HQ	76.40 - 82.40m Light green massive greywacke interbedded with minor shale. Uniform greywacke looks similar to fine grained gabbro but also contains rounded clasts of light green shale. Sediments heavily veined (quartz/carbonate), in places parallel to bedding. Trace disseminated sulphides (Py&Cp) through out with marcasite/tetrahedrite on fracture at plane 81.05m. Minor breccia zone associated with carbonate vein at 79.3	b	55°	77.80	3991843	76.40	78.80	40
77.30	77.75	100	HQ	Increase in quartz veining & Py at base of section. Contact with underlying gabbro on quartz/carbonate vein parallel to bedding. Core fairly competent.	b	55°	81.25	3991844	78.80	82.40	15
77.75	78.80	95	HQ		b	55°	82.30				
78.80	79.75	105	HQ								
79.75	81.00	100	HQ								
81.00	82.50	100	HQ								
82.50	84.00	100	HQ	82.40 - 83.35m Mottled green/white fine grained gabbro with fine grained disseminated sulphides, mainly Cp with some Py. Sharp contact with overlying sediments. Calcite vein up to 1 cm wide near contact. Numerous calcite filled veins through the gabbro. Very competent core.	vn	55°	82.60	3991845	82.40	83.35	15
					vn	20°	83.30				
84.00	85.50	100	HQ	83.35 - 84.90m Mottled green/grey medium grained gabbro. Bands up to 15cm of coarse grained gabbro with diffuse boundaries. Numerous white calcite veins some with crystals up to 8mm. Trace to minor fine grained disseminated sulphides, mainly Cp with some Py. Very competent core.	vn	20°	83.60	3991846	83.35	84.90	20
					vn/fr	60°	84.25				
					vn/fr	60°	84.50				
					vn	55°	84.85				

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10-5 SI)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
85.50	88.20	100	HQ	84.90 - 87.78m Mottled green/grey medium - coarse grained gabbro. Trace to minor fine grained and with white Ni sulphides particularly at 85.45m. Very competent core.	vn	20°	86.60	3991847	84.90	86.38	50
								3991848	86.38	87.78	30
								3757226*	85.05		
								3757234*	85.60		
				87.78 - 88.50m Mottled green/grey medium - coarse grained gabbro with abundant fine white calcite fractures. Trace to minor fine grained disseminated sulphides, mainly Cp, Py and extremely fine grained white Ni? sulphides. Very competent core.	vn/fr	30°	88.15	3991849	87.78	88.50	15
					fr	45°	88.60				
88.20	91.30	98	HQ	88.50 - 89.60m Mottled green/grey fine - medium grained gabbro with white calcite fractures. Trace to minor fine grained disseminated sulphides, mainly Cp, Py and extremely fine grained white Ni? sulphides. Very competent core.	fr	50°	89.25	3991850	88.50	89.58	28
				89.60 - 91.55m Mottled green/white/black medium grained gabbro with wavy black/dark green (chlorite?) veins. Common white calcite veins. At 89.85m, 5cm wide calcite vein with 5mm vein of tetrahedral crystals (tetrahedrite? marcasite?). Calcite filled fractures. Very competent core.	vn/fr	65°	89.58	3991851	89.58	91.55	25
					vn	60°	89.85				
91.30	94.35	98	HQ	91.55 - 93.65m Mottled grey/green fine - medium grained gabbro with trace Cp. Very competent core.	vn/fr	50°	91.55	3991852	91.55	93.65	20
					vn	50°	92.10				
					vn	20°	92.70				
					vn	65°	92.80				
					vn	45°	93.20				
94.35	97.50	100	HQ	93.65 - 96.05m Mottled green/black medium grained gabbro heavily veined with white/black calcite veins. In addition black moderately hard black veins containing minor bronze disseminated sulphides. Trace Cp and Py through out. Minor breccia zones associated with calcite veins. Contact with underlying sediments parallel to veining. Very competent core.	vn	30°	93.80	3991853	93.65	96.05	25
					vn	20°	94.30	3757227*	96.05		
					vn	15°	94.60				
					vn	30°	96.00				
				96.05 - 97.30m Laminated dark grey/grey shale with minor black shale bands and greywacke. Abundant Py on bedding and fracture planes. Very competent core.	contact	30°	96.05	3991854	96.05	97.30	15
					b	40°	96.65		96.05		
					b	35°	96.95				
97.50	100.50	100	HQ	97.30 - 98.20m Black shale shear zone with clasts of mottled green white medium grained gabbro with up to 10% Py and Cp. Common calcite veins and fracture veins. Very competent core.	fo	15°	97.70	3991855	97.30	98.20	30
					vn	25°	98.35	3757228*	97.55		
					vn	30°	98.50				

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10 - 5 St)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
100.50	103.50	98	HQ	98.20 - 107.70m Light green shale and interbedded greywacke with minor dark grey shale. Greywacke contains subrounded clasts of light green shale and greywacke. Abundant soft sediment deformation. Common calcite veins up to 2cm wide. Trace disseminated sulphides. Very competent core.	b	35°	99.30	3991856	98.20	103.50	22
103.50	106.50	100	HQ		b	45°	99.50	3991857	103.50	107.70	25
					sh	40°	99.90				
					b	45°	101.15				
					b	65°	101.35				
					vn	20°	102.20				
					b?/sh	45°	104.15				
					b	60°	106.55				
106.50	109.50	97	HQ	107.70 - 108.20m Pink shale heavily fractured and faulted with minor calcite. Disseminated sulphides 5% through out Py, Cp, Ga? and Po. Fractures filled with dark green chlorite? with minor sulphides. In addition minor breccia zones with sulphide matrix (Cp and Py). Bottom 5cm breccia with trace Cp. Competent core.				3991858	107.70	108.20	15
				108.20 - 109.20m Pale yellow/pink carbonate vein with 2% Sp and minor Ga, Cp and Py. Moderately competent core.	vn	20°	108.50	3991859	108.20	109.20	120
109.50	112.50	100	HQ	109.20 - 115.50m Predominately green shale with minor greywacke. Common soft sediment deformation. Minor disseminated sulphides through out. mainly Py and Cp. Between 14.8 - 15.0m up to 10% Py and minor Cp.	vn/fr	20°	109.20	3991860	109.20	112.50	30
112.50	115.50	100	HQ		vn/fr	50°	110.05	3991861	112.50	115.50	40
EOH					vn	30°	111.80				
					b	60°	112.05				
					b	70°	113.70				
					b	75°	114.00				
					vn	30°	114.30				
					b	75°	114.90				

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10 - 5 SL)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
0.00	18.40			Pre collar							
18.40	19.50	95	HQ	18.40 - 24.60m Weathered (limonitic) light green/grey	b	55°	19.90	3991917	18.40	21.00	
19.50	21.00	95	HQ	laminated shale. Minor purple and black banding. Chlorite and graphite with	b	65°	20.60	3991918	21.00	24.60	
21.00	22.25	80	HQ	trace Py and Cp on fracture planes. Core plastic and very broken on fracture							
22.25	23.75	80	HQ	planes.							
23.75	24.65	89	HQ								
24.65	25.65	85	HQ	24.60 - 25.10m Banded Py zone with minor graphite.				3991862	24.60	25.10	32
				Friable. Very broken core.				3757229*	24.75		
25.65	27.00	67	HQ	25.10 - 32.50m Light green shale and greywacke with minor	b	60°	27.05	3991919	25.10	27.00	
27.00	28.10	77	HQ	banded black shale as 18.4 - 24.6m without orange iron staining on fracture	b	70°	27.15	3991920	27.00	29.20	
28.10	29.20	95	HQ	planes. Trace Py. Moderately broken core.	b	50°	28.20	3991921	29.20	32.50	
29.20	30.00	94	HQ		b	60°	29.30				
30.00	31.20	83	HQ		b	70°	30.20				
31.20	32.70	93	HQ								
32.70	34.10	79	HQ	32.50 - 34.00m Predominantly dark grey and grey shale	b	85°	32.50				
				interbedded with minor amounts of light green greywacke. Moderately							
				broken core.							
34.10	35.60	93	HQ	34.00 - 39.90m Light green greywacke and shale with minor	b	75°	35.20				
35.60	37.15	84	HQ	grey shale. Trace to minor amounts of Py particularly within grey shale	b	80°	37.75				
37.15	38.70	97	HQ	bands. Irregular 1cm wide Py band at 39.3m. Moderately broken core.	b	90°	38.30				
38.70	40.00	100	HQ		b	85°	39.30				
40.00	41.50	100	HQ	39.90 - 43.40m Black shale/shear zone.	b/sh	50°	40.70	3991863	39.90	43.40	40
41.50	42.60	91	HQ	Laminations disrupted by faulting. Py bands up to 3mm wide within black	b/sh	45°	41.20				
42.60	43.80	100	HQ	shale. Irregular quartz vein with chlorite between 41.6 - 42.1m. Moderately							
				competent core.							
43.80	45.00	92	HQ	43.40 - 48.00m Predominantly light green greywacke and	b	60°	43.55	3991864	43.40	48.00	20
45.00	46.50	97	HQ	interbedded shale with minor black shale. Greywacke contains minor	b	60°	44.95				
46.50	48.00	97	HQ	amounts of angular clasts of shale. Soft sediment deformation suggestive	b	55°	45.15				
				of debris flow between 46.5 - 48.0m. Common pale yellow quartz/carbonate	vc	65°	47.60				
				vein up to 1.5cm wide cut across sediments. In addition numerous wispy							
				pale yellow carbonate cross cut and parallel to bedding. Fractures filled by							
				chlorite. Trace to minor Py clots up to 1.5mm in fractures. Moderately							
				broken core.							

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10-5 S)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
48.00	49.40	93	HQ	48.00 - 54.70m Predominantly light green/grey greywacke and interbedded shale with minor black shale as above with less soft sediment deformation. Common quartz/carbonate veins and fracture fill. Trace to minor Py and Cp. Moderately competent core.	b	30°	48.30	3991865	48.00	51.00	20
49.40	51.00	97	HQ		b	45°	48.80	3991866	51.00	54.70	28
51.00	52.50	93	HQ		vc/fr	65°	50.15				
52.50	54.00	100	HQ		b	50°	51.70				
					b	55°	52.90				
					b	40°	53.70				
54.00	55.55	68	HQ	54.70 - 55.50m Light brown/grey shale and greywacke. Laminations disrupted by faulting. Fractures filled with chlorite and Py. Bottom of unit sheared and associated with graphite. Very competent core.	vc	40°	55.20	3991867	54.70	55.50	27
55.55	56.10	91	HQ	55.50 - 57.05m Mottled green/white fine grained gabbro. Abundant pale yellow carbonate veining. At 56.2m, 10cm carbonate vein with a 1cm band of Sp and Ga associated with bright green mineral (fuchsite?). Top 5cm of section sheared and serpentinised suggestive of fault. Crumbly core.				3991868	55.50	57.05	38
56.10	57.00	100	HQ								
57.00	58.50	100	HQ	57.05 - 58.50m Mottled white/green medium grained gabbro. Common wispy pale yellow carbonate/quartz veins. In addition dark green/black wispy veins (chlorite?). Trace Cp and Py. Very competent core.				3991869	57.05	58.50	35
58.50	60.00	100	HQ	58.50 - 61.40m Mottled green/white medium grained gabbro with minor white calcite veins. Trace Cp and Py. Very competent core.				3991870	58.50	61.40	30
60.00	61.55	100	HQ								
61.55	63.00	100	HQ	61.40 - 63.40m Mottled white/green fine grained gabbro with dark green/black (chlorite?) and quartz/carbonate veins. Trace Py and Cp particular on fracture planes. Fairly competent core.	vc	15°	62.55	3991871	61.40	63.40	30
					vqc	40°	62.55				
63.00	64.50	100	HQ	63.40 - 66.00m Green/pale pink contact metamorphic zone. Spotty texture probably after recrystallised feldspar dominate the top 50cm. Up to 5% Py with cubic crystals up to 4mm. Abundant quartz/carbonate veins with vugs filled by quartz and radiating fibrous masses of marcasite. Sharp contact with gabbro. Carbonate vein at 64.2m contains 2 - 3% Sp and Ga with trace Py and translucent green/white mineral similar in appearance and hardness to chalcedony. Core very broken between 64.1 - 65.2m.	contact	40°	63.40	3991872	63.40	66.00	22
64.50	66.00	90	HQ		b/vc	55°	65.80				
66.00	67.50	107	HQ	66.00 - 66.75m Green and brown greywacke with minor green shale. Common calcite veining. Trace Py on fracture planes and veins. Fairly competent core.	b	55°	66.15	3991873	66.00	66.75	50
					b	50°	66.35				
					b	55°	66.55				

305260

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10 - 5 SI)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
67.50	69.00	100	HQ	66.75 - 82.50m Red brown greywacke and interbedded shale.	b	65°	66.85	3991874	66.75	72.70	120
69.00	70.50	100	HQ	Along some fractures colour changes to green. Brecciation associated with	b	60°	67.35	3991875	72.70	77.10	25
70.50	72.00	100	HQ	low angle quartz and calcite veining between 72.7 - 75.5m. Between 76.1 - 77.1m	b	60°	68.40				
72.00	78.00	97	HQ	colour changes to light brown (alteration?) associated with 3cm carbonate vein	b	60°	68.90				
78.00	79.50	100	HQ	at 76.5m with minor Sp, Ga and trace Py and Cp. Trace Py mainly between 72.7 -	b	60°	69.85				
79.50	81.00	100	HQ	77.1m associated with veins. Competent core.	b	60°	70.90				
81.00	82.50	100	HQ		vq	10°	72.00				
EOH					b	55°	73.55				
					vqc	5°	74.20				
					vc	40°	76.50				
					b	55°	79.00				
					b	60°	80.00				
					b	65°	80.50				
					b	65°	81.00				
					b	65°	81.40				

305261

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10-5 SI)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
0.00	18.00			Pre collar							
18.00	19.80	86	HQ	18.00 - 28.00m	b	60°	18.20				
19.80	21.00	92	HQ	Weathered (limonitic) red/brown greywacke and shale. Minor green and light brown section. Abundant faulting evident.	b	60°	19.50				
21.00	24.00	93	HQ	Minor Py associated with green (chlorite) fracture planes. Moderately competent core.	b	60°	20.50				
24.00	26.75	96	HQ		b	65°	24.30				
26.75	28.25	100	HQ		b	60°	26.45				
					b	70°	27.05				
					b	75°	27.30				
28.25	30.00	83	HQ	28.00 - 32.40m	b	85°	28.40	3991876	28.00	32.40	17
30.00	32.70	89	HQ	Light grey/light green laminated shale. Top 50cm heavily iron stained (orange). Shale pitted (after Py crystals) and spotted after recrystallised feldspar? Spottiness increases with depth (i.e. contact metamorphic texture). Euhedral Py crystals up to 2.5mm common through out unit. Minor Py associated with chlorite fractures/faults. Common puggy faults and slickensides evident. Core mostly broken.	b	70°	30.50				
					b	60°	31.90				
32.70	33.00	100	HQ	32.40 - 36.90m	vq	25°	32.85	3991877	32.40	34.60	30
33.00	36.00	93	HQ	Mottled green/white fine - medium grained gabbro. Between 34.0 - 34.6m colour changes to mottled white/green. Iron stained fractures between 33.5 - 35.1m. Common quartz veins up to 3cm (at 33.0m). Rare elliptical black (ultramafic?) clasts at top of section. Trace disseminated sulphides (Py and Cp). Some minor sulphide blebs and veins at 35.45m. Moderately competent core.	vq	90°	33.00	3991878	34.60	36.90	20
36.00	37.00	100	HQ		fo	75°	36.10				
37.00	38.10	100	HQ	36.90 - 37.75m				3991879	36.90	37.75	41
				Mottled green/white coarse grained gabbro. Approximately 10% disseminated sulphides (Cp, Pt? and Py) in ground mass, blebs and minor veins. Moderately competent core.							
38.10	39.00	83	HQ	37.75 - 38.55m				3991880	37.75	38.55	55
				Massive sulphide zone. Mainly Cp with silver/dark grey sulphide (Pt?) and minor Py. Very crumbly core.				3757230*	38.20		
				38.55 - 38.70m	b	75°	39.20	3991881	38.55	38.70	35
				Mottled dark green/white fine grained gabbro with up to 5% disseminated sulphides (Py, Po?). Broken core.							
				38.70 - 38.85m				3991882	38.70	40.10	24
				Breccia zone with dark green gabbro and green shale.							
39.00	41.55	75	HQ	38.85 - 43.25m	b	70°	42.45				
41.55	42.55	90	HQ	Laminated light green shale as 28.0 - 32.4m, spotted down to 40.0m. Common faulting with minor breccia zones. Mainly competent core.	b	70°	43.20				
42.55	44.15	100	HQ	43.25 - 45.50m	b	75°	44.15				
44.15	45.00	100	HQ	Dark grey/grey laminated shale. Competent core.	b	70°	45.50				

305262

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10-5 SI)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
45.00	47.70	78	HQ	45.50 - 53.25m Light green greywacke/tuff with minor shale.	b	70°	49.10	3991883	50.70	53.25	30
47.70	49.20	100	HQ	Greywacke contains wispy black clasts trending to laminations. minor bands of dark grey/grey laminated shale. Common quartz and calcite veins parallel to fracture and bedding planes. Minor 1cm laminations of Py. Trace to minor Py on fracture planes. Minor Sp and Ga associated with calcite veins.	b	70°	50.65				
49.20	50.75	97	HQ		vc	65°	50.90				
50.75	52.20	90	HQ		b	65°	51.00				
52.20	53.50	85	HQ		b	65°	51.40				
53.50	54.50	100	HQ	53.25 - 54.90m Black shale with abundant carbonate veins with Sp Ga and trace Py.				3991884	53.25	54.90	40
54.50	56.80	83	HQ	54.90 - 55.50m Mottled green/white fine - medium grained gabbro heavily veined with calcite and common Sp and Ga.				3991885	54.90	55.50	35
56.80	57.30	100	HQ	55.50 - 59.50m Mottled pale yellow/bright green coarse grained gabbro. Bright green crystals - fuchsite? Gabbro altered? due to calcite veining. Less altered pale yellow/black/green gabbro between 55.5 - 57.5m. Common calcite veins parallel and perpendicular to core axis. Approximately 5 - 10% Sp in places associated with calcite. Moderately competent core with puggy fault zones.	vn	60°	58.50	3991886	55.50	57.50	40
57.30	58.90	87	HQ					3991887	57.50	59.50	35
58.90	60.00	100	HQ	59.50 - 60.60m Mottled light green/white gabbro with wispy black veins. Very fine grained gabbro down to 59.9m. Coarse grained to 60.6m. Trace disseminated sulphides, mainly Cp. Bottom contact associated with very broken core and quartz veining.				3991888	59.50	60.60	30
60.00	61.60	94	HQ	60.60 - 68.90m Light green greywacke and shale with minor disrupted bedding. Contact with overlying gabbro on black shale band with 5cm band of brecciation suggestive of sheared contact. Also no evidence of contact metamorphism. Greywacke contains rare clasts of light green shale up to 3cm long. Grading bedding indicate indicate right way up. Minor bands of shale with 10% Py. Euhedral Py crystals up 6mm on fracture planes.	b	60°	62.00	3991889	60.60	64.55	20
61.60	63.00	100	HQ		b	60°	63.00	3991890	64.55	68.90	60
63.00	64.85	86	HQ		b	70°	66.00				
64.85	66.00	100	HQ		b	75°	66.85				
66.00	69.00	100	HQ		b	80°	68.70				
69.00	72.00	100	HQ	68.90 - 75.00m Red/brown shale and greywacke. Trace Py o fracture planes. Ten cm pale brown alteration halo associated with carbonate vein at 73.2m. Competent core.	b	90°	69.50				
72.00	75.00	100	HQ		b	90°	70.15				
EOH					b	80°	70.55				
					b	70°	71.90				
					b	90°	72.30				
					b	75°	73.10				
					vc	65°	73.20				
					vc	80°	74.70				
					b	80°	74.90				

305263

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10 - 5 SD)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
0.00	6.00			Pre collar							
6.00	7.10	82	HQ	6.80 - 9.20m Light grey/light green greywacke with minor	b	70°	7.15				
7.10	8.20	100	HQ	banded light and dark shale between 6.6 - 7.4m. Minor Py on fracture planes.	b	80°	8.40				
8.20	8.85	92	HQ	Fairly broken core.							
8.85	9.80	84	HQ	9.20 - 19.45m Banded black, dark and light grey shale with	b	60°	10.70	3991891	9.20	12.70	2
9.80	11.30	100	HQ	minor light green shale. Dark grey and black shale contain up to 20% Py as	b	80°	12.40	3991892	12.70	16.55	10
11.30	12.70	93	HQ	laminations (2mm wide) and disseminated through out. In addition, minor Py	b	150°	13.20	3991893	16.55	19.45	28
12.70	14.00	100	HQ	within light grey shale, on fracture planes and as aggregates up to 2cm. Bedding	f	145°	13.22				
14.00	15.00	100	HQ	convoluted and disrupted in places. At 13.2m, excellent example of drag folding	b	35°	13.25				
15.00	16.55	94	HQ	over 30 cm. Moderately competent core.	b	60°	13.30				
16.55	18.00	100	HQ		b	70°	13.45				
18.00	19.55	100	HQ		b	65°	14.55				
					b	75°	15.35				
					b	80°	17.20				
					b	75°	19.25				
19.55	21.00	100	HQ	19.45 - 28.50m Light green laminated shale with minor fine	b	70°	19.80	3991894	19.45	24.00	41
21.00	22.50	100	HQ	grained greywacke. Chlorite and trace Py on fracture planes. Euhedral Py cubes	b	70°	21.15	3991895	24.00	28.50	25
22.50	24.00	100	HQ	up to 6mm. at 26.4m. Greywacke contains subrounded light green shale elasts.	b	75°	21.95				
24.00	25.50	100	HQ	Pink tinge to shale over bottom 40cm of unit. Core fairly competent to 26.25m.	b	90°	22.95				
25.50	27.00	97	HQ		b	80°	23.45				
27.00	28.50	93	HQ		b	90°	24.55				
					b	75°	26.15				
					b	50°	27.25				
					b	50°	27.45				
					b	40°	27.65				
28.50	29.20	143	HQ	28.50 - 33.50m Red brown greywacke and shale. Common	b	70°	29.50	3991896	28.50	31.05	19
29.20	31.05	84	HQ	green chlorite on fracture planes. Sharp contact with underlying unit associated	b	65°	29.90	3991897	31.05	33.80	23
31.05	31.60	100	HQ	with pale yellow wispy carbonate veins sub/parallel to bedding. Competent core.	b	80°	31.25				
31.60	33.00	100	HQ		b	85°	31.60				
33.00	34.55	94	HQ	33.50 - 33.80m Green laminated shale	contact	80°	33.50				
				Spotty texture prbably after recrystalised felspar dominate the unit from 33.6 -	vn/b	80°	33.50				
				33.8m. Bottom contact very broken and associated with quartz veining							
				suggestive of fault zone.							

305264

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10 - 5 St)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
34.55	36.00	97	11Q	33.80 - 36.60m Mottled green/white coarse grained gabbro. Slightly altered gabbro with pyroxene crystals up to 2mm long between 35.05 - 36.30m. Top of section dominated by wispy pale yellow carbonate veins. Pug filled faults common. Trace disseminated sulphides - Cp, Py and Pt? (pentlandite). Moderately competent core.				3991898	33.80	36.60	11
36.00	37.55	100	11Q	36.60 - 40.40m Mottled green/white medium - coarse grained gabbro with trace to minor amounts of disseminated sulphides (Cp, Pt, Py and rare white Ni? sulphides). Common carbonate and quartz veins. Competent core.				3991899	36.60	40.40	15
37.55	39.00	97	11Q					3757235*	40.10		
39.00	40.55	100	11Q	40.40 - 40.60m Pink/green breccia transistion zone. Convolutated and diffuse contact with overlying gabbro.				3991900	40.40	43.55	25
40.55	41.20	85	11Q	40.60 - 50.60m Red/brown laminated shale and massive greywacke with green (chlorite) fracture planes. Minor wispy pale yellow with carbonate veins. Between 49.15 - 50.60m shale altered? along fracture planes colour changed to light brown/green. Numerous carbonate veins parallel to bedding. Competent core.	b	80°	40.80	3991901	43.55	47.45	28
41.20	42.00	113	11Q		b	75°	41.40	3991902	47.45	50.60	16
42.00	43.55	100	11Q		b	75°	41.70				
43.55	45.00	100	11Q		b	65°	44.70				
45.00	45.95	100	11Q		b	65°	45.50				
45.95	47.45	100	11Q		b	65°	47.80				
47.45	49.05	94	11Q		b	55°	49.05				
49.05	50.60	97	11Q		b	65°	50.00				
50.60	52.15	100	11Q	50.60 - 51.60m Transistion zone. Green and brown laminated shale with common carbonate veins parallel to bedding and fracture planes. Competent core.	b	65°	50.60	3991903	50.60	54.85	15
					b	70°	51.20				
					b	65°	51.60				
52.15	53.70	100	11Q	51.60 - 54.85m Green laminated shale and massive greywacke. Competent core.	b	70°	52.15				
53.70	54.75	100	11Q		b	70°	53.55				
54.75	55.90	104	11Q	54.85 - 56.05m Red/brown laminated shale and massive similar to 40.6 - 50.6m. Vugs partially filled with quartz in greywacke perpendicular to bedding stopping at shale bands. Competent core.	b	65°	55.75	3991904	54.85	57.60	157
55.90	57.00	95	11Q								
				56.05 - 57.60m Dark brown fine grained shale and greywacke becoming green then dark gery with depth suggestive of contact metamorphism. Numerous chlorite filled wispy fracture with minor Cp. Competent core.	b	70°	56.25				
57.00	58.55	100	11Q	57.60 - 58.25m Mottled green/black medium grained gabbro containing trace - minor disseminated sulphides, mainly Py with some Cp. Diffuse contact with overlying sediments. Competent core.				3991905	57.60	59.25	233
								3757236*	57.80		

305265

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10 - 5 SD)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
				58.25 - 58.65m Dark grey shale and greywacke similar to 57.15 - 57.6m. Diffuse contact with overlying gabbro. Competent core.							
58.55	60.00	97	HQ	58.65 - 59.15m Mottled green/black fine grained gabbro with minor amounts of dark grey contact metamorphosed sediments. Gabbro contains numerous wispy pale yellow carbonate veins. Competent core.	vc	50°	59.15				
				59.15 - 60.95m Dark grey/black shale similar to 58.25 - 58.65m. Common quartz and carbonate veining. Diffuse contact with overlying gabbro associated with carbonate vein. Euhedral Py associated with fractures through out. Approximately 3% Py in bottom 10cm of section. Competent core.				3991906	59.25	60.95	1450
60.00	61.55	100	HQ	60.95 - 62.10m Sheared mottled green/black medium - coarse grained gabbro with minor disseminated sulphides (mainly Py). Abundant carbonate veining with minor Sp and Ga mineralisation between 61.55 - 62.10m. Majority of carbonate veing parallel to bedding in underlying sediments. Competent core.	vc	50°	61.65	3991907	60.95	62.10	190
61.55	63.00	97	HQ	62.10 - 62.35m Irregularly laminated massive sulphide zone (elasts?) with green contact metamorphosed shale. Massive sulphide consist mainly of Py. Abundant carbonate veins. Sharp rounded contact with surrounding gabbro. Competent core.				3991908	62.10	62.35	25
				62.35 - 63.10m Green laminated fine grained shale as observed within massive sulphide zone above. Irregular inclusions of gabbro which appear to have been squeezed into breccia vugs. Gabbro dyke (3cm wide) adjacent to breccia.	b	50°	62.80	3991909	62.35	63.35	6
				63.10 - 63.35m Predominantly mottled green/black medium grained gabbro with minor green/dark grey contact metamorphosed sediments. Trace Py mainly within sediment. Competent core.	b	40°	63.10				
63.00	64.55	90	HQ	63.35 - 64.65m Contact metamorphosed laminated green shale with a 5cm band of gabbro at 64.0m. Crystals within gabbro elongated parallel to bedding (i.e. sheared). Sharp contact with overlying sediments associated with carbonate vein parallel to bedding. Heavily fractured between 63.35 - 63.80m. Competent core.	contact	35°	63.35	3991910	63.35	67.35	26
					vc	35°	63.35				
					b/sh	30°	64.00				

305266

CRA EXPLORATION PTY. LIMITED

RECOVERY			CORE SIZE	DESCRIPTION	STRUCTURE			SAMPLE NUMBER	DEPTH		k (10 - 5 SI)
FROM	TO	%			TYPE	ANGLE	DEPTH		FROM	TO	
64.55	66.00	100	HQ	64.65 - 67.35m Laminated green shale with minor massive greywacke. Shale contains minor subrounded and elongated quartz clasts/pebbles/boudins? up to 2.5cm long. Competent core.	b	40°	64.95				
66.00	67.55	103	HQ		b	45°	66.00				
					b	40°	66.25				
					b	50°	66.85				
					b	55°	67.00				
67.55	69.00	97	HQ	67.35 - 72.00m Predominately red/brown laminated shale with minor green bands. Trace Py particularly within green shale bands. Wispy pale yellow carbonate veins parallel to bedding becoming more common with depth. Elliptical black clots/halo? up to 12mm long (elongated along bedding) associated with Py at bottom of unit. Competent core.	b	60°	67.55	3991911	67.35	72.00	21
69.00	70.55	103	HQ		b	50°	68.20				
70.55	72.00	97	HQ		b	50°	69.50				
					b	55°	70.00				
					b	55°	71.00				
72.00	73.60	100	HQ	72.00 - 73.65m Yellow brown shale and minor greywacke becoming light green with depth. Contact metamorphosed shale similar to overlying unit. Abundant wispy pale yellow carbonate veins parallel to bedding. Some black elliptical clots (elongated along bedding) often associated with Py.	b	80°	72.00	3991912	72.00	73.65	5
					b	80°	72.40				
					b	65°	73.40				
73.60	75.00	100	HQ	73.65 - 75.60m Mottled green/black fine - medium grained gabbro becoming fine grained and mottled grey/white with depth. Bottom portion of gabbro looks similar to fine grained greywacke. Significant disseminated sulphides, with greater than 10% in places, mainly Py with some Cp. Elliptical sulphide blebs up to 8mm long between 73.90 - 74.15m. Gabbro and sulphides foliated parallel to bedding in overlying sediments. Minor stringers of Cp associated with fractures. Fractures common through out gabbro increasing with depth, particularly the last 20cm. Sharp contact with overlying sediments. Brecciated contact with underlying sediments. Competent core.	fo	65°	74.00	3991913	73.65	75.60	24
								3757231*	73.65		
								3757232*	73.90		
75.00	76.20	96	HQ	75.60 - 76.90m Green laminated shale spotted after recrystallised feldspar? Spottiness decreases with depth (i.e. contact metamorphism). Minor mottled dark green/white (gabbro) veins around 76.5m. Fractures filled with chlorite and minor Py. Competent core.	b	80°	76.00	3991914	75.60	76.90	18
					b	75°	76.75				
76.20	77.50	100	HQ	76.90 - 82.20m Green fine grained shale becoming predominant grey greywacke with black shale bands with depth. Greywacke contains black wispy clasts becoming laminations. Fractures filled with chlorite and trace Py. Moderately competent core.	b	75°	77.40	3991915	76.90	79.50	17
77.50	78.00	100	HQ		b	70°	78.30	3991916	79.50	82.20	21
78.00	79.50	100	HQ		b	80°	79.40				
79.50	81.00	87	HQ		b	75°	81.00				
81.00	82.20	100	HQ		b	75°	81.55				
EOH					b	80°	82.10				

305267

DRILL CORE LOG

TENEMENT NAME Melba Flats No. 43/4

PLAN MAP REFERENCE

CO ORDINATES _____ AZIMUTH 234 mag. DRILLERS Patlock E.S. COMMENCED 22.2.95 DEPTH 22.3m HOLE No. 0095MFORL COLLAR _____ INCLINATION -50° DRILL TYPE _____ COMPLETED 24.2.95 CASING LEFT _____ DPO No(s) _____

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)									
cm	To (M)																			
(M)																				
					<u>0-3.5m</u>															
0	1.00	0	TTS6		Weathered clay and lesser transported gravel.															
0.00	3.50	0.25																		
3.50	3.75	0.20		10	<u>3.80-9.90 m</u>															
3.75	5.00	1.50		25	Weathered olive green, medium to coarse grained,															
5.00	5.55	0.55		30	upward fining volcanoclastic sandstone/greywacke															
5.55	7.35	1.40		20	beds (up to 1.4m thick), grading at top to fine															
7.35	8.20	0.85		35	grained, laminated mudstone. Sandstone beds															
8.20	8.85	0.70		20	scour and plastically deform underlying laminated															
					mudstone (and frequently contain mudstone															
					intraclasts) - sequence is younging up. Fe/Mn-oxide															
					coats fractures.															
					<u>3.80m</u> Laminated mudstone: So So to Core long Axis (CLA).															
					<u>6.90-7.70m</u> Core is pervasively mauve stained.															
					<u>8.65m</u> May represent change in detritus or															
					oxidation state of depositional environment.															
					Laminated mudstone: So 70 to CLA.															
					<u>9.90-18.55m</u>															
8.85	10.10	0.70		55	olive green, medium to coarse grained, upward															
10.10	11.60	1.10		30	fining volcanoclastic sandstone/greywacke beds															
11.60	13.10	1.60		40	(up to 1.5 m thick), grading at top to fine															
13.10	14.50	1.60		45	grained laminated mudstone (as for 3.50-9.90m).															
14.50	15.45	0.90		50	Sequence is younging up. Rare oxidised															
15.45	17.15	1.70		45	partings: <1% disseminated euhedral pyrite in															
					both sandstone and mudstone. Rare quartz-chlorite															
					pyrite veins.															
					<u>11.70m</u> Laminated mudstone: So So to CLA.															
					<u>13.95m</u> 10mm pyrite nodule.															
					Fine elongated irregular pipe:															
					<u>12.80m</u> Fine elongated irregular pipe:															
					<u>16.15m</u> 4mm pyrite nodules in laminated mudstone.															

305268

305268

DRILL CORE LOG

TENEMENT NAME..... No.

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. DD95.MFC

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

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.....)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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					16.70m Laminated mudstone: So 75' to CLA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</

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

SHEET No. 1 of 2

TENEMENT NAME Melba Flats No. 43/9

CO-ORDINATES..... AZIMUTH 53 mag DRILLERS Pellock E.S. COMMENCED 24.2.95 DEPTH 15.35m HOLE No. DD95MFC

RL COLLAR..... INCLINATION -52' DRILL TYPE..... COMPLETED 25.2.95 CASING LEFT..... DPO No(s).....

DEPTH		Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weather, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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1-15.35m		EOH			Olive green, medium to coarse grained, upward fining, poorly sorted volcanoclastic sandstone/greywacke beds (up to 6.7m thick), grading at top to fine grained laminated (~7m scale) mudstone. Sandstone beds fine upward and scour plus plastically deform underlying laminated mudstone (and frequently contain mudstone intraclasts) - sequence is younging up. Bedding to core long axis (CLA) angle is generally ~45°. Partings are commonly lined by chlorite ± vein quartz ± vein carbonate ± pyrite ± siderite. Weak foliation developed in mudstone and to a lesser extent sandstone - generally orientated ~45° to CLA.		no samples taken																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

305270

SECRET NO. 2.44

TENEMENT NAME..... No.

PLAN — MAP REFERENCE.....

CO ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. 8595 MFC

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

[illegible]

3027

CRA Exploration Pty. Limited DRILL CORE GEOCHEMICAL LEDGER
DPO 77372

Laboratory: Analabs, Burnie

HOLE	COLLAR EAMG	NAMG	SAMPLE	DEPTHFROM	DEPTHTO	LITHOLOGY	Ni ppm	Cu ppm	Ag ppm	Co ppm	Cr ppm	Fe %	Mn ppm	Pb ppm	Zn ppm
M6	366416	5367763	3991917	32.61	33.53	lgb	204	86	<1	44	344	7.4	1501	11	165
M6	366416	5367763	3991918	33.53	35.05	lgb	232	232	<1	46	294	7.7	1676	13	175
M6	366416	5367763	3991919	35.05	35.97	lgb	219	188	<1	46	288	7.4	1147	12	140
M6	366416	5367763	3991920	35.97	37.49	lgb	588	516	<1	53	473	8.4	1657	12	127
M8	366419	5367782	3991921	20.73	26.67	lgb	211	80	<1	47	376	7.6	1388	5	224
M9	366427	5367747	3991922	83.52	86.87	lgb	315	77	<1	49	558	8.5	7600	15	328

305272

SAMPLE NUMBER	DPO	DDH	DEPTH		k x10-6 SI	UNIT METHOD DL-LOW	Ag	Au	Co	Cr	Qu	Fe			Mn			Ni		Pb		Pd	Pl	Zn			
			FROM	TO			ppm GA140	ppm GG314	ppm GA140	ppm GA140	ppm GA140	% GA104	% GA140	% GA140	ppm GA140	% GA140	% GA104	ppm GA140	% GA104	ppm GA140	% GA104	ppm GG314	ppm GG314	ppm GA140	% GA104	ppm GA140	% GA104
			1	0.008			3	7	2	0.01	0.01	0.1	3	0.1	0.01	3	0.01	0.01	3	0.01	3	0.01	0.008	0.075	2	0.01	
3991917	77223	DD94MF03	18.40	21.00			-1		26	113	52			7.5				162						323			
3991918	77223	DD94MF03	21.00	24.60			-1		85	136	1368			9.7				1256						642			
3991919	77223	DD94MF03	25.10	27.00			-1		32	93	217			8.4				468						348			
3991920	77223	DD94MF03	27.00	30.00			-1		40	139	58			7.8				275						385			
3991921	77223	DD94MF03	30.00	32.50			-1		31	126	59			7.4				220						263			
3991801	77365	DD94MF01	26.15	30.60	28		-1		50	68	78			8.5	1134			82						123			
3991802	77365	DD94MF01	30.60	31.30	10		-1		48	49	72			6.1	698			86						252			
3991803	77365	DD94MF01	31.30	33.90	25		-1		49	88	56			8.8	2648			93						202			
3991804	77365	DD94MF01	33.90	36.70	20		-1		49	71	51			8.1	1561			83		581				973			
3991805	77365	DD94MF01	36.70	38.70	25		-1		39	93	32			6.7	1417			69		10				92			
3991806	77365	DD94MF01	38.70	39.90	40		-1		67	180	186			9.2	2390			226		15				110			
3991807	77365	DD94MF01	39.90	41.25	15		-1		89	189	90			9.5	1528			391		4				354			
3991808	77365	DD94MF01	41.25	42.45	20		-1		71	214	176			7.6	1103			297		15				118			
3991809	77365	DD94MF01	42.45	43.50	5		-1		86	341	90			8.6	1263			397		31				133			
3991810	77365	DD94MF01	43.50	45.70	10		-1		120	485	2298			9.4	1320			2597		254				1496			
3991811	77365	DD94MF01	45.70	46.20	35		-1	0.189	168	229	6898			8.5	1325			5794		2379		0.309	0.246	5647			
3991812	77365	DD94MF01	46.20	46.80	50		-1	0.182	118	196	5173			9.0	1482			3464		301		0.212	0.189	337			
3991813	77365	DD94MF01	46.80	47.75	40		-1		82	232	2040			9.5	1420			1103		77				121			
3991814	77365	DD94MF01	47.75	48.50	35		-1		107	281	3134			13.9	1484			2426		19				88			
3991815	77365	DD94MF01	48.50	49.20	4000		-1	0.830	1331	47		4.50	1.81	110			9.30	14		14		1.400	0.846	74			
3991816	77365	DD94MF01	49.20	49.70	55		-1		49	60	180			17.0	1519			86		14				121			
3991817	77365	DD94MF01	49.70	54.10	25		-1		47	57	60			9.2	1355			144		64				291			
3991818	77365	DD94MF01	54.10	57.00	25		-1		56	115	79			10.2	1001			135		15				173			
3991819	77365	DD94MF01	57.00	60.00	24		-1		59	129	75			11.2	1656			163		30				328			
3991820	77365	DD94MF01	60.00	62.25	15		-1		40	40	70			6.9	8017			71		224				500			
3991821	77365	DD94MF02	15.55	16.65	12		-1		47	78	67	3.08		370				96		433				2173			
3991822	77365	DD94MF02	27.86	30.00	25		-1		54	46	74			8.1	1012			82		61				115			
3991823	77365	DD94MF02	30.00	34.50	30		-1		51	59	74			9.4	2777			88		16				117			
3991824	77365	DD94MF02	34.50	36.75	20		-1		42	53	59			7.4	1631			81		50				121			
3991825	77365	DD94MF02	36.75	40.35	22		-1		48	101	32			8.2	1559			87		12				113			
3991826	77365	DD94MF02	40.35	42.65	10		-1		37	52	27			6.2	1539			65		15				91			
3991827	77365	DD94MF02	42.65	43.50	18		-1		65	165	70			8.9	2478			196		9				85			
3991828	77365	DD94MF02	43.50	44.40	40		-1		72	167	175			9.4	2114			247		10				87			
3991829	77365	DD94MF02	44.40	45.20	12		-1		84	250	124			9.7	2924			292		8				96			
3991830	77365	DD94MF02	45.20	46.50	24		-1		84	289	498			9.1	1294			369		21				235			
3991831	77365	DD94MF02	46.50	48.00	25		-1		84	360	95			10.0	1416			429		20				146			
3991832	77365	DD94MF02	48.00	49.00	22		-1		54	82	72			7.8	1248			110		351				717			
3991833	77365	DD94MF02	49.00	53.00	28		-1		55	103	62			9.5	2328			127		176				672			
3991834	77365	DD94MF02	53.00	54.00	25		-1		51	74	71			9.6	1233			101		54				123			
3991835	77365	DD94MF02	54.00	57.90	35		-1		46	106	88			9.3	6570			72		770				1360			
3991836	77365	DD94MF02	57.90	59.40	32		-1		41	71	62			9.0	3492			69		100				328			
3991837	77365	DD94MF02	59.40	60.35	25		-1		40	23	60			7.1		1.6		66		284				1784			
3991838	77365	DD94MF02	60.35	63.00	30		-1		47	52	46			8.9	1509			83		44				130			
3991839	77365	DD94MF02	63.00	65.95	30		-1		45	59	45			8.7	1885			79		49				127			
3991840	77365	DD94MF02	65.95	69.10	25		-1		46	72	58			7.4	5287			70		101				809			
3991841	77365	DD94MF02	69.10	73.00	30		-1		50	86	321			8.4	1112			91		32				154			
3991842	77365	DD94MF02	73.00	76.40	30		-1		47	91	49			8.4	773			91		29				118			
3991843	77365	DD94MF02	76.40	78.80	40		-1		45	86	55			8.4	1653			88		20				170			
3991844	77365	DD94MF02	78.80	82.40	15		-1		44	90	26			8.0	1049			86		24				91			
3991845	77365	DD94MF02	82.40	83.35	15		-1		71	290	102			8.8	1443			246		36				177			
3991846	77365	DD94MF02	83.35	84.90	20		-1		65	173	89			7.9	1203			204		33				84			
3991847	77365	DD94MF02	84.90	86.38	50		-1		55	48	67			7.9	1054			70		23				90			
3991848	77365	DD94MF02	86.38	87.78	30		-1		66	85	75			7.5	1157			200		17				78			
3991849	77365	DD94MF02	87.78	88.50	15		-1		72	245	95			7.3	1173			376		25				72			

305273

SAMPLE NUMBER	DPO	DDH	DEPTH FROM	TO	k x10 ⁶ SI	UNIT METHOD DL-LOW	Ag ppm GA140 1	Au ppm GG314 0.008	Co ppm GA140 3	Cr ppm GA140 7	Cu ppm GA140 2	% GA104 0.01	Fe % GA140 0.01	% GA140 0.1	Mn ppm GA140 3	% GA140 0.1	% GA104 0.01	Ni ppm GA140 3	% GA104 0.01	Pb ppm GA140 3	% GA104 0.01	Pd ppm GG314 0.008	Pt ppm GG314 0.075	Zn ppm GA140 2	% GA104 0.01
3991850	77365	DD94MF02	88.50	89.58	28		-1		85	284	88			8.8	1964			403		16				82	
3991851	77365	DD94MF02	89.58	91.55	25		-1		72	273	96			9.4	2292			302		38				84	
3991852	77365	DD94MF02	91.55	93.65	20		-1		79	232	77			8.2	1788			347		24				76	
3991853	77365	DD94MF02	93.65	96.05	25		-1		80	270	92			10.0	1761			353		35				112	
3991854	77365	DD94MF02	96.05	97.30	15		-1		55	91	22			9.0	943			97		20				94	
3991855	77365	DD94MF02	97.30	98.20	30		-1		59	159	168			9.5	1213			335		23				124	
3991856	77365	DD94MF02	98.20	103.50	22		-1		53	130	65			9.7	1017			97		17				116	
3991857	77365	DD94MF02	103.50	107.70	25		-1		54	111	56			10.1	1293			92		24				127	
3991858	77365	DD94MF02	107.70	108.20	15		-1		40	32	113		3.91		2596			65		652				1109	
3991859	77365	DD94MF02	108.20	109.20	120		7		42	35	46			21.3			13.80	45		2041				9990	
3991860	77365	DD94MF02	109.20	112.50	30		2		54	105	69			10.8			0.60	106		267				447	
3991861	77365	DD94MF02	112.50	115.60	40		-1		49	114	88			8.2	899			99		21				105	
3991862	77367	DD94MF03	24.60	25.10	32		9	1.130	1154	410		2.91		23.3	449				7.71	129		1.140	1.060	656	
3991863	77367	DD94MF03	39.90	43.40	40		-1		41	88	96			9.0	1790			235		220				635	
3991864	77367	DD94MF03	43.40	48.00	20		-1		39	104	95			8.9	1563			223		41				154	
3991865	77367	DD94MF03	48.00	51.00	20		-1		44	158	52			8.6	1355			99		34				149	
3991866	77367	DD94MF03	51.00	54.70	28		-1		32	128	62			8.1	1068			97		14				130	
3991867	77367	DD94MF03	54.70	55.50	27		-1		43	91	50			7.5	3255			101		26				179	
3991868	77367	DD94MF03	55.50	57.05	38		6		70	402	134			9.1		1.1	538		3875					4521	
3991869	77367	DD94MF03	57.05	58.50	35		-1		70	281	104			8.2	2719			446		27				112	
3991870	77367	DD94MF03	58.50	61.40	30		-1		67	207	82			7.6	1940			358		22				95	
3991871	77367	DD94MF03	61.40	63.40	30		-1		65	226	148			8.0	2406			283		33				134	
3991872	77367	DD94MF03	63.40	66.00	22		2		34	55	304			7.1			3	75		401				5573	
3991873	77367	DD94MF03	66.00	66.75	50		-1		41	108	4			7.4	1372			90		11				126	
3991874	77367	DD94MF03	66.75	72.70	120		-1		41	118	9			7.6	903			93		14				136	
3991875	77367	DD94MF03	72.70	77.10	25		-1		41	111	36			7.4	978			84		26				148	
3991876	77368	DD94MF04	28.00	32.40	17		-1		35	70	56			8.1	995			110		29				193	
3991877	77368	DD94MF04	32.40	34.60	30		-1		50	181	66			9.5	1366			258		19				146	
3991878	77368	DD94MF04	34.60	36.90	20		-1		52	377	421			9.9	1161			793		20				190	
3991879	77368	DD94MF04	36.90	37.75	41		3	0.140	135	355	4832			13.3	1339			4735		33		0.236	0.184	161	
3991880	77368	DD94MF04	37.75	38.55	55		30	1.940	715	233		10.30		25.5	357				7.75	49		1.560	1.220	272	
3991881	77368	DD94MF04	38.55	38.70	35		-1		29	65	932			15.1	1831			263		17				131	
3991882	77368	DD94MF04	38.70	40.10	24		-1		33	90	112			8.6	1775			144		26				143	
3991883	77368	DD94MF04	50.70	53.25	30		-1		30	162	49			10.0	6339			99		101				277	
3991884	77368	DD94MF04	53.25	54.90	40		38		17	70	113			10.7				86				2.29			1.98
3991885	77368	DD94MF04	54.90	55.50	35		1		69	484	72			8.8		1.9	434		474					2065	
3991886	77368	DD94MF04	55.50	57.50	40		2		40	312	55			9.9		5.0	282		400					4572	
3991887	77368	DD94MF04	57.50	59.50	35		18		50	384	96			9.1		4.3	365		6962					8400	
3991888	77368	DD94MF04	59.50	60.60	30		-1		64	379	124			8.6	2506			526		6				128	
3991889	77368	DD94MF04	60.60	64.55	20		-1		38	145	32			8.5	1008			119		15				156	
3991890	77368	DD94MF04	64.55	68.90	60		-1		36	205	75			8.7	1142			116		-3				140	
3991891	77368	DD94MF05	9.20	12.70	2		-1		26	75	62			9.6	442			62		22				146	
3991892	77368	DD94MF05	12.70	16.55	10		-1		31	50	69			9.2	335			72		28				156	
3991893	77368	DD94MF05	16.55	19.45	28		-1		39	33	69			10.7	299			55		32				155	
3991894	77368	DD94MF05	19.45	24.00	41		-1		33	99	48			10.5	452			60		-3				148	
3991895	77368	DD94MF05	24.00	28.50	25		-1		36	78	48			10.7	643			73		-3				143	
3991896	77368	DD94MF05	28.50	31.05	19		-1		37	67	65			10.3	560			58		6				160	
3991897	77369	DD94MF05	31.05	33.80	23		-1		39	64	58			10.1	618			74		-3				148	
3991898	77369	DD94MF05	33.80	36.60	11		-1		68	212	101			10.6	1132			260		-3				137	
3991899	77369	DD94MF05	36.60	40.40	15		-1		60	197	126			9.9	1401			288		-3				110	
3991900	77369	DD94MF05	40.40	43.55	25		-1		28	93	30			9.2	628			69		3				127	
3991901	77369	DD94MF05	43.55	47.45	28		-1		29	100	51			10.4	873			82		-3				147	
3991902	77369	DD94MF05	47.45	50.60	16		-1		32	69	82			10.1	706			68		-3				144	
3991903	77369	DD94MF05	50.60	54.85	15		-1		28	110	33			11.3	1213			83		-3				145	

305274

SAMPLE NUMBER	DPO	DDH	DEPTH FROM	TO	k x10.5 SI	UNIT METHOD DL-LOW	Ag	Au	Co	Cr	Cu	Fe			Mn			Ni			Pb		Pd	Pt	Zn	
							ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	%	%	ppm	%	%	ppm	%	ppm	ppm	ppm	%
							GA140 1	GG314 0.008	GA140 3	GA140 7	GA140 2	GA104 0.01	GA140 0.01	GA140 0.1	GA140 3	GA140 0.1	GA104 0.01	GA140 3	GA104 0.01	GA104 0.01	GA140 3	GA104 0.01	GG314 0.008	GG314 0.075	GA140 2	GA104 0.01
3991904	77369	DD94MF05	54.85	57.60	157		-1		30	100	259			8.8	849			77			-3					107
3991905	77369	DD94MF05	57.60	59.25	233		-1		38	117	69			11.9	1525			97			-3					123
3991906	77369	DD94MF05	59.25	60.95	1450		-1		32	112	32			11.1	1025			81			-3					106
3991907	77369	DD94MF05	60.95	62.10	190		-1		73	434	124			12.9	6299			511								332
3991908	77369	DD94MF05	62.10	62.35	25		-1		51	78	84			12.5	3821			236			1543					2588
3991909	77369	DD94MF05	62.35	63.35	6		-1		36	84	93			10.6	1577			73			-3					144
3991910	77369	DD94MF05	63.35	67.35	26		-1		34	114	103			10.4	1608			76			-3					128
3991911	77369	DD94MF05	67.35	72.00	21		-1		22	54	65			8.1	2070			59			19					121
3991912	77369	DD94MF05	72.00	73.65	5		-1		33	104	79			11.8	2610			87			22					139
3991913	77369	DD94MF05	73.65	75.60	24		2	0.222	111	321	6323			14.3	1739			4409			13		0.300	0.240		113
3991914	77369	DD94MF05	75.60	76.90	18		-1		33	109	22			9.9	1481			71			6					105
3991915	77369	DD94MF05	76.90	79.50	17		-1		35	156	76			10.3	2017			101			6					130
3991916	77369	DD94MF05	79.50	82.20	21		-1		35	154	72			11.9	1447			96			-3					142
4144166	77372	M6	32.61	33.53			-1		44	344	86			7.4	1501			204			11					165
4144167	77372	M6	33.53	35.05			-1		46	294	232			7.7	1676			232			13					175
4144168	77372	M6	35.05	35.97			-1		46	288	188			7.4	1147			219			12					140
4144169	77372	M6	35.97	37.49			-1		53	473	516			8.4	1657			588			12					127
4144170	77372	M8	68.00	87.50			-1		47	376	80			7.6	1388			211			5					224
4144171	77372	M9	83.52	86.87			-1		49	558	77			8.5	7600			315			15					328
4144101	77233	DD95MF06	18.55	19.75			-1		65	224	388				545			368			158					760



Analabs

305276

Analabs Pty. Ltd.

A.C.N. 004 591 664

Form 1001 (1/87)

Form 1001 (1/87)

Form 1001 (1/87)

ANALYTICAL REPORT No.

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

INVOICE TO:

ORDER No.

PROJECT

DATE RECEIVED

RESULTS REQUIRED

No. OF PAGES
OF RESULTS

DATE
REPORTED

No.
OF COPIES

TOTAL No.
OF SAMPLES

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD



RESULTS-

TO

RESULTS

TO

RESULTS

TO

REMARKS

AUTHORISED OFFICER

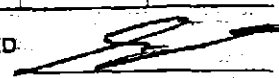
ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE
		10-153.50.1.199				27/07/94		77325		1 OF 5
METHOD	SAMPLE No.	Cu	Cu	Pb	Zn	Ag	Fe	Fe:1	Mn	Mn
		GA140	GA104	GA140	GA140	GA140	GA140	GA140	GA140	GA104
1	3991801	78	-	38	127	-	-	8.8	1154	-
2	3991802	72	-	34	131	-	-	8.1	1178	-
3	3991803	65	-	39	132	-	-	8.8	1148	-
4	3991804	61	-	331	977	-	-	8.1	1361	-
5	3991805	52	-	10	82	-	-	8.7	1417	-
6	3991806	185	-	18	110	-	-	8.2	1190	-
7	3991807	81	-	4	754	-	-	8.8	1126	-
8	3991808	175	-	15	118	-	-	8.6	1147	-
9	3991809	60	-	71	155	-	-	8.4	1247	-
10	3991810	2296	-	154	1485	-	-	9.1	1000	-
11	3991811	1498	-	2079	8647	-	-	8.0	1125	-
12	3991812	5147	-	201	137	-	-	9.0	1480	-
13	3991813	2346	-	77	121	-	-	9.6	1420	-
14	3991814	3134	-	19	88	-	-	13.9	1484	-
15	3991815	-	4.50	14	74	8	1.81	-	110	-
16	3991816	160	-	14	121	-	-	17.0	1619	-
17	3991817	60	-	34	121	-	-	9.2	1355	-
18	3991818	79	-	15	173	-	-	10.2	1001	-
19	3991819	75	-	30	128	-	-	11.2	1636	-
20	3991820	70	-	124	164	-	-	8.6	6017	-
21	3991821	67	-	400	2177	3	3.08	-	370	-
22	3991822	74	-	61	119	-	-	8.1	1712	-
23	3991823	74	-	15	117	-	-	9.4	2777	-
24	3991824	68	-	30	121	-	-	7.4	1671	-
25	3991825	32	-	12	113	-	-	8.2	1359	-

Results in ppm unless otherwise specified
 -- = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104183, 50, 10255			28/07/94		77065		2 OF 5	
	SAMPLE No.	Cu	Cu	Pb	Zn	Ag	Fe	Fe:1	Mn	Mn	
METHOD		GA140	GA104	GA140	GA140	GA140	GA140	GA140	GA140	GA104	
1	3991826	27	-	15	91	<1	-	8.2	1579	-	
2	3991827	21	-	9	85	<1	-	8.4	1475	-	
3	3991828	175	-	10	57	<1	-	8.4	2114	-	
4	3991829	124	-	5	75	<1	-	8.7	1924	-	
5	3991830	198	-	11	273	<1	-	8.1	1294	-	
6	3991831	85	-	20	146	<1	-	10.0	1415	-	
7	3991832	72	-	351	717	<1	-	7.8	1245	-	
8	3991833	52	-	176	372	<1	-	8.5	1323	-	
9	3991834	71	-	84	127	<1	-	8.5	1233	-	
10	3991835	55	-	770	1560	<1	-	8.3	5570	-	
11	3991836	40	-	100	225	<1	-	8.0	3492	-	
12	3991837	20	-	284	1734	<1	-	7.1	-	-	
13	3991838	46	-	44	130	<1	-	8.9	1509	-	
14	3991839	45	-	49	127	<1	-	8.7	1885	-	
15	3991840	58	-	101	809	<1	-	7.4	5257	-	
16	3991841	121	-	32	154	<1	-	8.4	1112	-	
17	3991842	49	-	29	115	<1	-	8.4	775	-	
18	3991843	55	-	20	170	<1	-	9.4	1653	-	
19	3991844	16	-	24	91	<1	-	8.0	1049	-	
20	3991845	102	-	36	177	<1	-	8.3	1445	-	
21	3991846	37	-	73	94	<1	-	7.9	1103	-	
22	3991847	57	-	12	90	<1	-	7.9	1084	-	
23	3991848	75	-	17	73	<1	-	7.5	1157	-	
24	3991849	95	-	25	72	<1	-	7.5	1175	-	
25	3991850	55	-	16	82	<1	-	8.3	1954	-	

Results in ppm unless otherwise specified.

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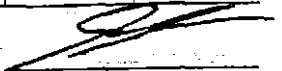
ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104163.00.10299				31.07.94		77025		1 OF 1	
	SAMPLE No.	Cu	Cu	Pb	Zn	Ag	Fe	Fe:1	Mn	Mn	
METHOD		GA140	GA104	GA140	GA140	GA140	GA140	GA140	GA140	GA104	
1	0991851	85	-	33	84	-	-	8.4	2290	-	
2	0991851	77	-	34	78	-	-	8.2	1738	-	
3	0991857	80	-	35	112	-	-	10.0	1781	-	
4	0991854	82	-	30	84	-	-	8.0	843	-	
5	0991855	138	-	30	134	-	-	8.8	1213	-	
6	0991856	55	-	17	118	-	-	8.7	1017	-	
7	0991857	86	-	34	127	-	-	10.1	1297	-	
8	0991858	112	-	552	1108	-	3.81	-	2586	-	
9	0991859	46	-	3041	8880	-	-	11.7	-	10.8	
10	0991860	37	-	367	447	-	-	10.8	-	10.8	
11	0991861	33	-	11	107	-	-	8.2	898	-	
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	1	0.01	3	1	1	0.01	1.1	3	0.01	
25	UNITS	ppm	%	ppm	ppm	ppm	%	%	ppm	%	

Results in ppm unless otherwise specified
 -- element not determined

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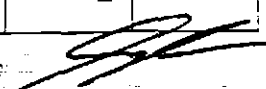
305280
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10299			29/11/94		77385		1 OF 3	
	SAMPLE No.	Mn	Cr	Co	Ni	Ni	Au	Pd	Pt		
METHOD		GA140	GA140	GA140	GA140	GA104	GG314	GG314	GG314		
1	3991801	-	58	50	52	-	-	-	-		
2	3991802	-	58	48	56	-	-	-	-		
3	3991803	-	58	59	57	-	-	-	-		
4	3991804	-	71	48	50	-	-	-	-		
5	3991805	-	51	59	59	-	-	-	-		
6	3991806	-	120	57	125	-	-	-	-		
7	3991807	-	139	59	191	-	-	-	-		
8	3991808	-	214	71	197	-	-	-	-		
9	3991809	-	341	85	737	-	-	-	-		
10	3991810	-	483	120	1597	-	-	-	-		
11	3991811	-	125	168	5754	-	0.189	0.308	0.245		
12	3991812	-	136	113	1464	-	0.162	0.212	0.189		
13	3991813	-	172	82	1100	-	-	-	-		
14	3991814	-	191	107	1426	-	-	-	-		
15	3991815	-	57	1531	-	9.30	0.330	1.400	0.846		
16	3991816	-	50	49	86	-	-	-	-		
17	3991817	-	57	47	144	-	-	-	-		
18	3991818	-	113	56	135	-	-	-	-		
19	3991819	-	129	59	155	-	-	-	-		
20	3991820	-	40	40	71	-	-	-	-		
21	3991821	-	78	47	56	-	-	-	-		
22	3991822	-	46	54	80	-	-	-	-		
23	3991823	-	59	51	88	-	-	-	-		
24	3991824	-	53	42	81	-	-	-	-		
25	3991825	-	101	48	57	-	-	-	-		

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

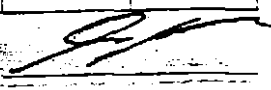
PAGE

			104125.30.10299		29/07/94		77385		5 OF 5	
	SAMPLE No.	Mn:1	Cr	Co	Ni	Ni	Au	Pd	Pt	
METHOD		GA140	GA140	GA140	GA140	GA104	GG314	GG314	GG314	
1	3991825	-	51	37	55	-	-	-	-	
2	3991827	-	155	53	195	-	-	-	-	
3	3991828	-	157	72	147	-	-	-	-	
4	3991829	-	150	54	192	-	-	-	-	
5	3991830	-	124	54	155	-	-	-	-	
6	3991831	-	150	54	429	-	-	-	-	
7	3991832	-	52	54	110	-	-	-	-	
8	3991833	-	142	55	127	-	-	-	-	
9	3991834	-	74	51	101	-	-	-	-	
10	3991835	-	105	45	71	-	-	-	-	
11	3991836	-	71	44	59	-	-	-	-	
12	3991837	1.5	10	40	55	-	-	-	-	
13	3991838	-	52	47	57	-	-	-	-	
14	3991839	-	59	45	79	-	-	-	-	
15	3991840	-	72	45	70	-	-	-	-	
16	3991841	-	56	50	91	-	-	-	-	
17	3991842	-	91	47	91	-	-	-	-	
18	3991843	-	55	45	58	-	-	-	-	
19	3991844	-	50	44	55	-	-	-	-	
20	3991845	-	290	71	245	-	-	-	-	
21	3991846	-	170	55	204	-	-	-	-	
22	3991847	-	48	55	70	-	-	-	-	
23	3991848	-	55	56	200	-	-	-	-	
24	3991849	-	145	72	375	-	-	-	-	
25	3991850	-	184	85	405	-	-	-	-	

Results in ppm unless otherwise specified.
-- = element not determined.

IS = insufficient sample
SNR = sample not received

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

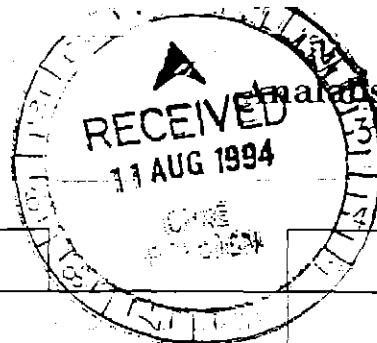
			104155.50.10198			09/07/94		77305		3 OF 3
	SAMPLE No.	Mn:1	Cr	Co	Ni	Ni	Au	Pd	Pt	
METHOD		GA140	GA140	GA140	GA140	GA104	GG314	GG314	GG314	
1	3991851	-	273	72	302	-	-	-	-	
2	3991852	-	302	78	347	-	-	-	-	
3	3991853	-	270	80	353	-	-	-	-	
4	3991854	-	91	55	97	-	-	-	-	
5	3991855	-	159	59	335	-	-	-	-	
6	3991856	-	130	50	97	-	-	-	-	
7	3991857	-	111	54	92	-	-	-	-	
8	3991858	-	32	40	65	-	-	-	-	
9	3991859	-	35	42	65	-	-	-	-	
10	3991860	-	105	54	106	-	-	-	-	
11	3991861	-	114	49	59	-	-	-	-	
12										
13										
14										
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16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.1	7	3	3	0.01	0.008	0.008	0.075	
25	UNITS	%	ppm	ppm	ppm	%	ppm	ppm	ppm	

Results in ppm unless otherwise specified
- = element not determined.

IS = insufficient sample
SNR = sample not received

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INVOICE NO. 11857

ANALYSIS NO. 305283

DATE 11/8/94

ANALYTICAL REPORT No.

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

INVOICE TO:

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ORDER No.

PROJECT

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OF SAMPLES

[Blank box for Total No. of Samples]

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
11857	50 mg of 100% CHROME FREE POW	100% CHROME FREE POW 100% CHROME FREE POW 100% CHROME FREE POW

 RESULTS
TO

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TO

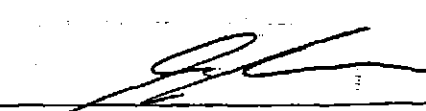
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 RESULTS
TO

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REMARKS

 Full 100% CHROME results are over the
 recommended analytical range for this
 test.



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ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

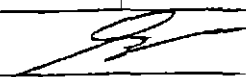
PAGE

		104183.60.10015				09/08/94		77567		1 OF 3	
	SAMPLE No.	CU	Cu	Pb	Zn	Ag	Fe	Fe(1)	Mn	Mn(1)	
METHOD		GA140	GA104	GA140	GA140	GA140	GA140	GA140	GA140	GA140	
1	3991862	-	1.81	108	636	-	-	10.1	148	-	
2	3991863	96	-	120	635	<1	-	8.3	1790	-	
3	3991864	95	-	41	134	<1	-	5.9	1560	-	
4	3991865	52	-	34	149	<1	-	5.5	1355	-	
5	3991866	62	-	14	130	<1	-	5.1	1066	-	
6	3991867	30	-	16	1194	<1	-	7.5	3258	-	
7	3991868	134	-	3875	4521	6	-	9.1	-	1.1	
8	3991869	104	-	27	112	<1	-	5.2	3719	-	
9	3991870	52	-	22	95	<1	-	7.5	1940	-	
10	3991871	148	-	33	134	<1	-	5.5	3405	-	
11	3991872	304	-	401	5571	1	-	7.1	8339	-	
12	3991873	4	-	11	125	<1	-	7.4	1372	-	
13	3991874	9	-	14	136	<1	-	7.5	905	-	
14	3991875	36	-	25	148	<1	-	7.4	975	-	
15											
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	2	0.01	3	2	1	0.01	0.1	3	0.1	
25	UNITS	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	

Results in ppm unless otherwise specified
- = element not determined

IS = insufficient sample
SNR = sample not received

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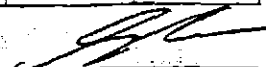
305285
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104153.50.10316			09/06/94		77367		2 OF 2	
	SAMPLE No.	Cr	Co	Ni	Ni	Au	Au(R)	Pd	Pd(R)	Pt	
METHOD		GA140	GA140	GA140	GA104	GG314	GG314	GG314	GG314	GG314	
1	3991862	410	1154	-	7.71	1.130	0.982	1.140	1.140	1.130	
2	3991863	68	41	235	-	-	-	-	-	-	
3	3991864	104	39	227	-	-	-	-	-	-	
4	3991865	166	44	99	-	-	-	-	-	-	
5	3991866	126	52	97	-	-	-	-	-	-	
6	3991867	91	43	101	-	-	-	-	-	-	
7	3991868	402	70	336	-	-	-	-	-	-	
8	3991869	251	70	446	-	-	-	-	-	-	
9	3991870	207	67	255	-	-	-	-	-	-	
10	3991871	226	68	287	-	-	-	-	-	-	
11	3991872	55	24	75	-	-	-	-	-	-	
12	3991873	108	41	96	-	-	-	-	-	-	
13	3991874	116	41	97	-	-	-	-	-	-	
14	3991875	111	41	94	-	-	-	-	-	-	
15											
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	7	5	5	0.01	0.002	0.008	0.008	0.008	0.075	
25	UNITS	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	

Results in ppm unless otherwise specified.
- = element not determined.

IS = insufficient sample
SNR = sample not received.

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305286

ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE	
			104166.50.10716	09/08/94	77367	1	OF 3
METHOD	SAMPLE No.	Pt(R)					
		GG314					
1	789166Z	1.020					
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
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16							
17							
18							
19							
20							
21							
22							
23							
24	DETECTION	0.075					
25	UNITS	ppm					

Results in ppm unless otherwise specified
-- element not determined

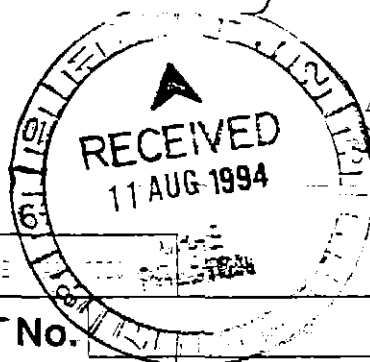
IS = insufficient sample
SNR = sample not received

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Analabs



A.C.N. 004 591 664

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	

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ORDER No. _____

PROJECT

INVOICE TO:

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$\frac{1}{2}$	$\frac{1}{2}$

DATE RECEIVED

RESULTS REQUIRED

1. $\frac{1}{2}$ of the total number of students 2. $\frac{1}{4}$ of the total number of students 3. $\frac{1}{8}$ of the total number of students 4. $\frac{1}{16}$ of the total number of students 5. $\frac{1}{32}$ of the total number of students 6. $\frac{1}{64}$ of the total number of students 7. $\frac{1}{128}$ of the total number of students 8. $\frac{1}{256}$ of the total number of students 9. $\frac{1}{512}$ of the total number of students 10. $\frac{1}{1024}$ of the total number of students 11. $\frac{1}{2048}$ of the total number of students 12. $\frac{1}{4096}$ of the total number of students 13. $\frac{1}{8192}$ of the total number of students 14. $\frac{1}{16384}$ of the total number of students 15. $\frac{1}{32768}$ of the total number of students 16. $\frac{1}{65536}$ of the total number of students 17. $\frac{1}{131072}$ of the total number of students 18. $\frac{1}{262144}$ of the total number of students 19. $\frac{1}{524288}$ of the total number of students 20. $\frac{1}{1048576}$ of the total number of students 21. $\frac{1}{2097152}$ of the total number of students 22. $\frac{1}{4194304}$ of the total number of students 23. $\frac{1}{8388608}$ of the total number of students 24. $\frac{1}{16777216}$ of the total number of students 25. $\frac{1}{33554432}$ of the total number of students 26. $\frac{1}{67108864}$ of the total number of students 27. $\frac{1}{134217728}$ of the total number of students 28. $\frac{1}{268435456}$ of the total number of students 29. $\frac{1}{536870912}$ of the total number of students 30. $\frac{1}{1073741824}$ of the total number of students 31. $\frac{1}{2147483648}$ of the total number of students 32. $\frac{1}{4294967296}$ of the total number of students 33. $\frac{1}{8589934592}$ of the total number of students 34. $\frac{1}{17179869184}$ of the total number of students 35. $\frac{1}{34359738368}$ of the total number of students 36. $\frac{1}{68719476736}$ of the total number of students 37. $\frac{1}{137438953472}$ of the total number of students 38. $\frac{1}{274877906944}$ of the total number of students 39. $\frac{1}{549755813888}$ of the total number of students 40. $\frac{1}{1099511627776}$ of the total number of students 41. $\frac{1}{2199023255552}$ of the total number of students 42. $\frac{1}{4398046511104}$ of the total number of students 43. $\frac{1}{8796093022208}$ of the total number of students 44. $\frac{1}{17592186044416}$ of the total number of students 45. $\frac{1}{35184372088832}$ of the total number of students 46. $\frac{1}{70368744177664}$ of the total number of students 47. $\frac{1}{140737488355328}$ of the total number of students 48. $\frac{1}{281474976710656}$ of the total number of students 49. $\frac{1}{562949953421312}$ of the total number of students 50. $\frac{1}{1125899906842624}$ of the total number of students 51. $\frac{1}{2251799813685248}$ of the total number of students 52. $\frac{1}{4503599627370496}$ of the total number of students 53. $\frac{1}{9007199254740992}$ of the total number of students 54. $\frac{1}{18014398509481984}$ of the total number of students 55. $\frac{1}{36028797018963968}$ of the total number of students 56. $\frac{1}{72057594037927936}$ of the total number of students 57. $\frac{1}{144115188075855872}$ of the total number of students 58. $\frac{1}{288230376151711744}$ of the total number of students 59. $\frac{1}{576460752303423488}$ of the total number of students 60. $\frac{1}{1152921504606846976}$ of the total number of students 61. $\frac{1}{2305843009213693952}$ of the total number of students 62. $\frac{1}{4611686018427387904}$ of the total number of students 63. $\frac{1}{9223372036854775808}$ of the total number of students 64. $\frac{1}{18446744073709551616}$ of the total number of students 65. $\frac{1}{36893488147419103232}$ of the total number of students 66. $\frac{1}{73786976294838206464}$ of the total number of students 67. $\frac{1}{147573952589676412928}$ of the total number of students 68. $\frac{1}{295147905179352825856}$ of the total number of students 69. $\frac{1}{590295810358705651712}$ of the total number of students 70. $\frac{1}{1180591620717411303424}$ of the total number of students 71. $\frac{1}{2361183241434822606848}$ of the total number of students 72. $\frac{1}{4722366482869645213696}$ of the total number of students 73. $\frac{1}{9444732965739290427392}$ of the total number of students 74. $\frac{1}{18889465931478580854784}$ of the total number of students 75. $\frac{1}{37778931862957161709568}$ of the total number of students 76. $\frac{1}{75557863725914323419136}$ of the total number of students 77. $\frac{1}{151115727451828646838272}$ of the total number of students 78. $\frac{1}{302231454903657293676544}$ of the total number of students 79. $\frac{1}{604462909807314587353088}$ of the total number of students 80. $\frac{1}{1208925819614629174706176}$ of the total number of students 81. $\frac{1}{2417851639229258349412352}$ 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number of students 95. $\frac{1}{39614081257132168796771975168}$ of the total number of students 96. $\frac{1}{79228162514264337593543950336}$ of the total number of students 97. $\frac{1}{158456325028528675187087900672}$ of the total number of students 98. $\frac{1}{316912650057057350374175801344}$ of the total number of students 99. $\frac{1}{633825300114114700748351602688}$ of the total number of students 100. $\frac{1}{1267650600228229401496703205376}$ of the total number of students 101. $\frac{1}{253530120$

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REMARKS

RESULTS

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RESULTS
- TO

1. 1990年12月25日，在“九七”香港回归前夕，香港各界人士纷纷发表文章，就香港前途问题提出自己的看法。其中，不少文章都提到，香港回归后，香港与内地的关系将发生深刻变化。

RESULTS
TO

1. *Phragmites* (common)
2. *Phragmites* (common)
3. *Phragmites* (common)
4. *Phragmites* (common)
5. *Phragmites* (common)
6. *Phragmites* (common)
7. *Phragmites* (common)
8. *Phragmites* (common)
9. *Phragmites* (common)
10. *Phragmites* (common)

[illegible]

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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	
		10-155.50.10020				09/08/94		77052		1 OF 1	
	SAMPLE No	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Fe	Fe(I)	
METHOD		GA140	GA104	GA140	GA104	GA140	GA104	GA140	GA140	GA140	
1	3991876	32	-	29	-	193	-	41	-	8.1	
2	3991877	32	-	15	-	145	-	11	-	8.5	
3	3991878	421	-	20	-	190	-	41	-	8.9	
4	3991879	4832	-	33	-	181	-	3	-	13.0	
5	3991880	-	10.30	49	-	272	-	30	-	25.5	
6	3991881	932	-	17	-	171	-	11	-	18.1	
7	3991882	111	-	25	-	145	-	11	-	8.5	
8	3991883	49	-	101	-	277	-	41	-	10.0	
9	3991884	113	-	-	1.24	-	1.98	35	-	10.7	
10	3991885	72	-	474	-	2065	-	1	-	8.8	
11	3991886	55	-	100	-	1570	-	1	-	8.9	
12	3991887	56	-	6982	-	5400	-	12	-	9.1	
13	3991888	124	-	5	-	125	-	41	-	8.6	
14	3991889	32	-	15	-	156	-	41	-	8.5	
15	3991890	75	-	43	-	140	-	41	-	8.7	
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	2	0.01	3	0.01	2	0.01	1	0.01	0.1	
25	UNITS	ppm	%	ppm	%	ppm	%	ppm	%	%	

Results in ppm unless otherwise specified
-- element not determined

IS = insufficient sample
SNR = sample not received

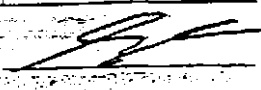
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305289
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.30.10320			09/08/94		77068		2 OF 3	
	SAMPLE No.	Mn	Mn(1)	Co	Cr	Ni	Ni	Au	Au(R)	Pd	
METHOD		GA140	GA140	GA140	GA140	GA140	GA104	GG314	GG314	GG314	
1	3991875	995	-	55	70	110	-	-	-	-	
2	3991877	1366	-	50	161	266	-	-	-	-	
3	3991878	1161	-	52	377	790	-	-	-	-	
4	3991879	1339	-	133	355	4706	-	0.140	-	0.236	
5	3991880	767	-	716	237	-	7.75	1.840	1.810	1.850	
6	3991881	1601	-	39	65	167	-	-	-	-	
7	3991882	1775	-	55	90	141	-	-	-	-	
8	3991883	5009	-	50	162	59	-	-	-	-	
9	3991884	-	4.2	17	70	86	-	-	-	-	
10	3991885	-	1.9	29	484	474	-	-	-	-	
11	3991886	-	3.0	40	512	382	-	-	-	-	
12	3991887	-	4.2	50	584	365	-	-	-	-	
13	3991888	2506	-	64	379	526	-	-	-	-	
14	3991889	1008	-	38	145	119	-	-	-	-	
15	3991890	1142	-	36	205	116	-	-	-	-	
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	3	0.1	5	7	3	0.01	0.008	0.008	0.008	
25	UNITS	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	

Results in ppm unless otherwise specified.
 - = element not determined.
 IS = insufficient sample.
 SNR = sample not received.

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ANALYTICAL DATA

SAMPLE PREFIX:

REPORT No:

REPORT DATE:

CLIENT ORDER No:

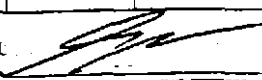
PAGE:

		104185.50.10320	09/09/94	77368	3	OF	3
	SAMPLE No.	Pt(R)	Pt	Pt(R)			
METHOD		GG314	GG314	GG314			
1	1991879	-	0.184	-			
2	3991880	1.560	1.210	1.230			
3							
4							
5							
6							
7							
8							
9							
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20							
21							
22							
23							
24	DETECTION	0.008	0.075	0.075			
25	UNITS	ppm	ppm	ppm			

Results in ppm unless otherwise specified:
 -- = element not determined

IS = insufficient sample
 SNR = sample not received

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305291

Page 1 of 1

Formal Analysis Fee

Page 1 of 1

ANALYTICAL REPORT No.

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ORDER No.

PROJECT

DATE RECEIVED

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OF RESULTS

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SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD

RESULTS

TO

RESULTS

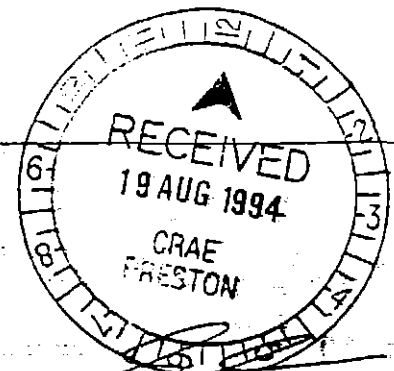
TO

RESULTS

TO

REMARKS

Re: PUA results are over the recent
and will be used for the report



AUTHORISED OFFICER

ANALYTICAL DATA
305292

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104155.57.10002				15/08/94		77767		1 OF 1	
	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	Fe(1)	Mn	Co	Cr	
METHOD		GA140	GA140	GA140	GA140	GA140	GA140	GA140	GA140	GA140	
1	3991891	82	82	145	81	-	9.5	140	38	75	
2	3991892	84	83	145	81	-	9.2	135	31	50	
3	3991893	85	81	153	81	-	10.7	159	39	73	
4	3991894	88	80	145	81	-	10.5	152	33	86	
5	3991895	88	82	145	81	-	10.7	147	36	78	
6	3991896	85	8	150	81	-	10.5	151	37	87	
7	3991897	85	82	148	81	-	11.1	148	39	84	
8	3991898	101	85	157	81	-	10.3	1152	58	112	
9	3991899	106	8	112	81	-	9.8	1401	50	187	
10	3991900	80	8	127	81	-	9.2	825	25	80	
11	3991901	81	8	147	81	-	10.4	875	29	104	
12	3991902	82	8	148	81	-	10.1	706	31	85	
13	3991903	85	83	145	81	-	11.3	1217	26	110	
14	3991904	259	83	107	81	-	8.8	849	30	100	
15	3991905	69	83	123	81	-	11.9	1252	38	117	
16	3991906	82	8	106	81	-	11.1	1025	32	112	
17	3991907	124	110	332	81	-	12.8	8299	70	454	
18	3991908	84	1543	2588	81	-	12.5	3821	51	78	
19	3991909	92	82	144	81	-	10.6	1577	35	84	
20	3991910	105	82	122	81	-	10.1	1608	74	114	
21	3991911	56	18	121	81	-	8.1	2070	32	54	
22	3991912	79	22	109	81	-	11.5	2510	30	104	
23	3991913	6325	15	117	81	-	14.3	1739	111	321	
24	3991914	22	8	105	81	-	9.8	1481	33	109	
25	3991915	76	8	130	81	-	10.3	2017	35	158	

Results in ppm unless otherwise specified. IS = insufficient sample.
 -- element not determined. SNR = sample not received.

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ANALYTICAL DATA

SAMPLE PREFIX:

REPORT No.

REPORT DATE

CLIENT ORDER No.

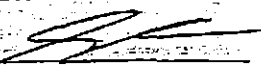
PAGE

		104155.50.10335				15/08/94		77369		2 OF 4	
	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	Fe(1)	Mn	Co	Cr	
METHOD		GA140	GA140	GA140	GA140	GA140	GA140	GA140	GA140	GA140	
1	DETECTION	70	40	100	1	-	11.0	1007	35	100	
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	2	3	2	1	0.01	0.1	3	3	7	
25	UNITS	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	

Results in ppm unless otherwise specified.
— = element not determined.

IS = insufficient sample.
SNR = sample not received.

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

		104155.50.10335	16/02/94	77369	1	OF	4
SAMPLE No.	NI	AU	Pd	Pt			
METHOD	GA140	GG314	GG314	GG314			
1	3991891	60	-	-			
2	3991892	71	-	-			
3	3991893	55	-	-			
4	3991894	50	-	-			
5	3991895	73	-	-			
6	3991896	53	-	-			
7	3991897	74	-	-			
8	3991898	250	-	-			
9	3991899	288	-	-			
10	3991900	59	-	-			
11	3991901	62	-	-			
12	3991902	68	-	-			
13	3991903	83	-	-			
14	3991904	77	-	-			
15	3991905	97	-	-			
16	3991906	81	-	-			
17	3991907	511	-	-			
18	3991908	336	-	-			
19	3991909	70	-	-			
20	3991910	75	-	-			
21	3991911	39	-	-			
22	3991912	37	-	-			
23	3991913	4409	0.122	0.300	0.240		
24	3991914	71	-	-	-		
25	3991915	101	-	-	-		

Results in ppm unless otherwise specified.
- element not determined

IS = insufficient sample
SNR = sample not received

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Analabs

Analabs Pty. Ltd.

A.C.N. 004 591 684

305295**ANALYTICAL DATA**

SAMPLE PREFIX

REPORT No.

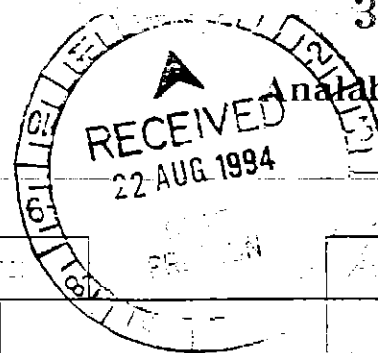
REPORT DATE

CLIENT ORDER No.

PAGE

		174185.50.14008				18/08/94		07039		1 OF 1	
	SAMPLE No.	Ni	Au	Pd	Pt						
METHOD		GA140	GG314	GG314	GG314						
1	7891915	98	-	-	-						
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	3	0.108	0.008	0.075						
25	UNITS	ppm	ppm	ppm	ppm						

Results in ppm unless otherwise specified.
-- = element not determined.IS = insufficient sample
SNR = sample not receivedAUTHORISED
OFFICER



ANALYTICAL REPORT No.

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ORDER No.

PROJECT

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OF SAMPLES

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

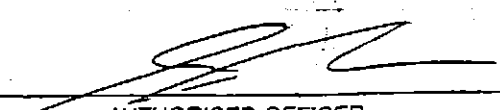
REMARKS

RESULTS
TO

RESULTS
TO

RESULTS
TO

THE ANALYSIS RESULTS ARE OVER THE REQUIREMENT
AND WERE FOUND TO BE SATISFACTORY


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ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104150.30.1000					18. 5. 94		77007		OF	
	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	Fe(1)	Cr	Co	Ni
METHOD		GA140	GA140	GA140	GA140	GA140	GA140	GA140	GA140	GA140
1	0991917	50	0	000	-	-	7.8	100	05	050
2	0991918	105	0	000	-	-	4.7	100	05	100
3	0991919	007	00	046	0	-	8.4	90	00	068
4	0991920	58	0	088	0	-	7.8	100	40	078
5	0991921	59	00	087	0	-	7.4	100	00	080
6										
7										
8										
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13										
14										
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17										
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19										
20										
21										
22										
23										
24	DETECTION	0	0	0	0	0.01	0.1	0	0	0
25	UNITS	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm

Results in ppm unless otherwise specified:

- = element not determined:

IS = insufficient sample:

SNR = sample not received:

AUTHORISED OFFICER:



305298

Phone (004) 316837

14 Thirkell St. COOEE TAS 7320

Fax (004) 318890

ANALYTICAL REPORT No.

104165.60.10438

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

INVOICE TO:

CRA Exploration Pty Limited
P.O. Box 8093
NORTHLAND CENTRE VIC 3072

ORDER No.

PROJECT

77372

DATE RECEIVED

RESULTS REQUIRED

26/09/94

ASAP

No. OF PAGES
OF RESULTSDATE
REPORTEDNo.
OF COPIESTOTAL No.
OF SAMPLES

2

05/10/94

1

6

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

~~1991917722~~

4144166-171

DC Prep : GP017 CHROME FREE BOWL

Cu,Pb,Zn,Ag,Fe,Mn,Co,Cr,Ni/GA140
Fe(1)/GA140RESULTS
TOMr T Aravanis
CRA Exploration Pty Limited
P.O. Box 8093
NORTHLAND CENTRE VIC 3072RESULTS
TOMr C Hayward
CRA Exploration Pty Limited
P.O. Box 8093
NORTHLAND CENTRE VIC 3072RESULTS
TOCRAE Information Systems
P.O. Box 3709
MANLIKA ACT 2603

REMARKS

Fe(1)/GA140 results are over the
recommended analytical range for this meth
PP Keith Hand
AUTHORISED OFFICER

305299

ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

		104165.60.10438				05/10/94		77372		1 OF 2	
	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	Ca(I)	Mn	Co	Br	
METHOD		GA140	GA140	GA140	GA140	GA140	GA140	GA140	GA140	GA140	
1	~~3991917~~ 4444166	86	11	165	<1	-	7.4	1501	44	344	
2	~~3991918~~ 167	232	13	175	<1	-	7.7	1676	46	294	
3	~~3991919~~ 168	188	12	140	<1	-	7.4	1147	46	288	
4	~~3991920~~ 169	516	12	127	<1	-	8.4	1657	53	473	
5	~~3991921~~ 170	80	5	224	<1	-	7.6	1388	47	376	
	~~3991922~~ 171	77	15	328	<1	-	8.5	7600	49	558	
7											
8											
9											
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20											
21											
22											
23											
24	DETECTION	2	3	2	1	0.01	0.1	3	3	7	
25	UNITS	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	

Results in ppm unless otherwise specified.
- = element not determined.

IS = insufficient sample
SNR = sample not received

AUTHORISED
OFFICER

M. A. Wood
Keith Hand



Analabs

Analabs Pty. Ltd.

A.C.N. 004592864

305300

ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104165.60.10438

05/10/94

77372

2 OF 2

LINE	SAMPLE No.	NAME								
1	3991917 4144166	204								
2	3991918 167	232								
3	3991919 168	219								
4	3991920 169	588								
5	3991921 170	211								
	3991922 171	315								
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	3								
25	UNITS	ppm								

Results in ppm unless otherwise specified
-- = element not determined

IS = insufficient sample
SNR = sample not received

AUTHORISED
OFFICER

M. J. Ford
KEITH HARRIS

ANALABS									
ANALYTICAL DATA									
CLIENT PREFIX	REPORT NUMBER			REPORT DATE		CLIENT ORDER No.		PAGE	
	104165.60.10831			27/04/95		77233		1 OF 24	
SAMPLE	Cu GA140	Cu GA104	Pb GA140	Zn GA140	Ag GA140	Ag GA104	Fe GA140	Mn GA140	Co GA140
4143390	28	-	78	110	<1	-	-	144	<3
4143391	44	-	86	166	<1	-	-	277	12
4143392	50	-	128	154	<1	-	-	323	12
4143393	33	-	80	133	<1	-	4.99	165	9
4143394	60	-	175	291	<1	-	4.71	213	9
4143395	136	-	38	39	<1	-	-	74	3
4143396	70	-	38	10	<1	-	-	25	<3
4143397	42	-	22	36	<1	-	-	262	5
4143398	27	-	87	47	<1	-	1.63	112	3
4143399	15	-	24	22	<1	-	0.24	<3	<3
4143400	23	-	25	29	<1	-	0.52	87	<3
4144101	388	-	158	760	<1	-	-	545	65
4144102	68	-	235	628	<1	-	-	699	38
4144103	63	-	100	97	<1	-	-	209	10
4144104	31	-	106	120	<1	-	4.07	198	11
4144105	48	-	95	148	<1	-	-	453	12
4144106	47	-	81	109	<1	-	-	356	11
4144107	36	-	102	128	<1	-	-	246	14
4144108	24	-	23	28	<1	-	-	116	6
4144109	59	-	110	110	<1	-	2.78	127	11
4144110	38	-	98	111	<1	-	-	259	5
4144111	60	-	90	166	<1	-	-	286	5
4144112	81	-	57	190	<1	-	-	529	10
4144113	285	-	45	224	<1	-	-	617	26
4144114	6902	-	91	16	4	-	-	27	50

WFO's

ANALABS

ANALYTICAL DATA

CLIENT PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	104165.60.10831	27/04/95	77233	13 OF 24

SAMPLE	Cr GA140	Ni GA140	Ni GA104
4143390	160	28	-
4143391	170	54	-
4143392	153	45	-
4143393	261	53	-
4143394	181	123	-
4143395	117	10	-
4143396	52	25	-
4143397	188	27	-
4143398	90	59	-
4143399	124	42	-
4143400	215	37	-
4144101	224	368	-
4144102	666	87	-
4144103	949	87	-
4144104	617	60	-
4144105	901	98	-
4144106	314	57	-
4144107	838	39	-
4144108	211	12	-
4144109	371	123	-
4144110	191	48	-
4144111	169	66	-
4144112	992	144	-
4144113	210	332	-
4144114	30	-	11.50

11.50

APPENDIX IV

PETROLOGICAL REPORTS, PETROGRAPHIC AND GEOCHEMICAL INTERIM
REPORT, AND WHOLE ROCK ANALYSIS GEOCHEMICAL SAMPLE LEDGER AND
LABORATORY REPORTS

CRA EXPLORATION PTY. LIMITED

ACN 000 057 125

UNIT 1/23 BELL STREET, PRESTON, VICTORIA 3072, AUSTRALIA

P.O. BOX 8093

NORTHLAND CENTRE 3072

TELEPHONE: (03) 480 1866

FAX: (03) 484 1375

14th September 1994

Dr. Martin Gole

C/- CRA Exploration Pty. Limited

21 Wynyard St.

BELMONT WA 6104

Re: Melba Flats EL 43/92 Petrology - DPO 77371

Martin,

I have sent you 20 samples from the Cuni (Cu-Ni) field on the west coast of Tasmania. 15 diamond drill hole samples come from the North Cuni - Genet's Winze prospect. Four rock chip samples were collected from the South Cuni workings and the final sample was collected from an out crop approximately 30m from the Nickel Reward shaft. Attached are the geochemical assays for the samples and the diamond drill hole summary and log sheets.

Please provide a lithological and textural description for each sample, including photomicrographs if relevant. Additional requirements are tabulated below. Prepare thin and polished sections as required.

Could you please return sections and offcuts. For internal purposes use cost code G02140.

For your reference, you examined two samples (3528483 & 84) from the Cuni area (DPO 71541) in March 1993.

A brief description of the Cuni field and CRAE's requirements are as follows. The belt of known massive Ni-Cu occurs sporadically as magmatic segregations within or adjacent to ultramafic sill/dykes over a 2.5 km strike length. The mineralisation is hosted by gabbro/pyroxinite dykes, typically along the footwall contact with Late-Mid Cambrian volcanoclastic lithic wacke with interbedded siltstone and shale. In the eastern portion of the EL, these sediments have been overthrust by the Cambrian Serpentinite Hill Ultramafic Complex (Tv 680).

Of the several mafic dykes/sills intrude the sedimentary sequence within the area, only one intrusive, the "Eastern or Central" gabbro was considered to be mineralised by previous explorers. This is based largely on the fact that massive sulphide pods are located along a N/S trend that swings to the NE near Genet's Winze. Clear evidence of parallel massive sulphide lenses at Nickel Reward and South Cuni appear to have been ignored.

Although the size of the deposits are quiet small, the grade of individual occurrences are impressive. (~7,400t @ 5 - 17% Ni and 4 - 14% Cu). The massive sulphide lenses are generally less than 50 m long and of the order of 1 m wide.

Two types of massive sulphide Ni ore have been recognised at Cuni which are thought to belong to different phases of the same mineralisation with segregation taking place at depth before emplacement. The two types of ore observed are:

- Ni as pentlandite (Ni_3FeS_4) and violarite (NiS_2) associated with pyrrhotite to 20% pyrite and chalcopyrite. Found at North Cuni, South Cuni and Vaudeau.
- Ni as millerite (NiS) intergrown with chalcopyrite and 25 - 60% pyrite. Found as high grade deposit at Nickel Reward & Devereaux and low grade at North Cuni.

In addition to the high Ni and Cu grades, recent sampling by CRAE has identified significant PGE and Au mineralisation within the massive sulphide lenses. Best results were 0.8m @ 1.56ppm Pd, 1.22ppm Pt and 1.94ppm Au (DD94MF03); and 8.78ppm Pd, 7.26ppm Pt and 2.56ppm Au from mine dump sampling.

Secondary Ni mineralisation (~0.16% Ni) has also been observed within the Serpentine Hill Ultramafic Complex, 600 - 800 m to the east (Plan Tv 680). The primary source is unknown but thought to be related to the Cuni deposits.

Although some potential exists for further massive sulphide lenses either at depth or along parallel mafic dykes, CRAE's primary focus is on a near surface, large tonnage - low grade Ni resource associated with the mafic intrusions. After examining the samples, please make any relevant comments regarding the potential for such a target.

Sample Number	Ag ppm	Au ppm	Co ppm	Cr %	Cu ppm	Fe ppm	Mn ppm	Ni ppm	Pb ppm	Pd ppm	Pt ppm	Zn ppm
3911766	-1		58	186	222	13.2		354	12			257
3911786	153	2.560	192	131	140000	13.0	454	24700	269	8.780	1.720	308
3911787	28	0.356	1056	261	44400	16.9	404	31500	49	0.418	0.224	122
3911789	-1	0.136	78	165	13300	18.4	1135	4186	219	0.504	0.360	372
3911791	-1	0.230	1177	62	30500	26.0	52	104000	53	1.140	1.160	227

Table 1. Rock chip assays

SAMPNO	ORIGINAL DPO	LOCATION or HOLE	DEPTH	GABBRO UNIT	QUERY
3911766	77358	Nickel Reward			Prepare thin section and determine rock type (i.e. igneous or volcanically derived sediment).
3911786	77366	South Cuni			Identify dark grey ground mass and comment on sulphides.
3911787	77366	South Cuni			Identify dark grey ground mass and comment on sulphides.
3911789	77366	South Cuni			Identify yellow sulphide needles (Millerite?) and comment on ground mass.
3911791	77366	South Cuni			Identify sulphides and comment on black bands (chalcocite?).
3757218	77365	DD94MF0 1	37.00		Comment on yellow green bands. Are these bands weathered minor dykes related to gabbro intrusives?
3757219	77365	DD94MF0 1	38.50		Comment on contact metamorphosed shale and mottled pink gabbro? derived dykes.
3757220	77365	DD94MF0 1	38.70	Eastern	Comment on the shale/gabbro contact.
3757221	77365	DD94MF0 1	47.70	Eastern	Comment on the type and distribution of sulphides.
3757222	77365	DD94MF0 1	48.25	Eastern	Comment on the type and distribution of sulphides compared to sample 3757221.
3757223	77365	DD94MF0 1	48.50	Eastern	Comment on the relationship of upper contact between the gabbro and massive sulphide zone? Also comment on sulphide minerals present.
3757224	77365	DD94MF0 1	49.20	Eastern	Comment on the relationship of lower contact between the gabbro and massive sulphide zone and comment on sulphide minerals present.

3757225	77365	DD94MF01	49.30	Eastern	Comment on gabbro and shale breccia immediately below massive sulphide zone.
3757226	77365	DD94MF02	85.05	Western	Compare texturally and petrographically to eastern gabbro in DD94MF01. Comment on sulphide content.
3757227	77365	DD94MF02	96.05	Western	Comment on the contact with underlying shale and identify black veins in gabbro.
3757228	77365	DD94MF02	97.55	?	Compare gabbro clast to other gabbro units.
SAMPNO	ORIGINAL DPO	LOCATION HOLE	DEPTH	GABBRO UNIT	QUERY
3757229	77367	DD94MF03	24.75		Identify sulphide species.
3757230	77368	DD94MF04	38.20	Eastern	Comment on sulphide minerals present and compare to samples 3757223 & 24.
3757231	77369	DD94MF05	73.65	Third?	Comment on the relationship of lower contact between the shale and gabbro.
3757232	77369	DD94MF05	73.9	Third?	Compare to eastern and western gabbro units.

Table 2.

Please do not hesitate to contact me if you have any queries.

Theo Aravanis
Project Geologist

Martin Gole and Associates

Geological and Petrological Services

305308

8 Landor Road
Gooseberry Hill W.A. 6076

Telephone (09) 293 4958

CRAE DPO 77371

REPORT TO CRA EXPLORATION PTY LTD

PETROGRAPHIC DESCRIPTION OF ROCK SAMPLES FROM
MELBA FLATS EL 43/92, TASMANIA

Martin Gole
November 1994

SUMMARY

Twenty two rock specimens are herein petrographically described. The lithologies identified and relevant comments are listed in Table 1.

The rocks consist of metamorphosed shale, a variety of altered mafic igneous rocks, some of which are sulphide-bearing, massive sulphide and an ultramafic rock.

Many of the metamorphosed mafic rocks contain well preserved igneous textures. Most are medium-grained doleritic rocks with a single basaltic, possible chilled margin sample and several gabbroic rocks.

A marked feature of most of these mafic rocks is that the current metamorphic mineralogy is very chlorite-rich and that actinolite is absent or only a minor constituent. This is despite the relict igneous textures strongly indicating that the igneous parent rock contained appreciable pyroxene. These rocks thus appear to have lost significant Ca (and perhaps other components) during metamorphic alteration. Veins and Ca-rich alteration assemblages containing garnet, epidote and carbonate may be present in the surrounding rocks.

Such alteration makes petrographic comparisons between the different mafic lithologies very difficult if not impossible.

A petrographic feature that may be useful for comparisons is the presence of relict igneous hornblende (with possible kaersutitic composition) in samples 3757221 and 222. Such hornblende is not seen in the other mafic rocks although it may have been destroyed by the metasomatism that has affected these rocks.

The massive sulphides are composed mostly of pyrite, chalcopyrite, violarite, minor millerite and trace pentlandite and pyrrhotite. The violarite and all except a trace of pyrite in these samples are supergene or secondary sulphides formed as weathering products from primary zone Ni-Fe sulphides (mostly pentlandite, pyrrhotite and pyrite). Chalcopyrite, pentlandite, pyrrhotite and, based on textures, millerite are the main relicts of the primary sulphide assemblage.

The disseminated sulphides appear to have a slightly different assemblage being composed mostly of pyrite, chalcopyrite, millerite, galena and sphalerite. Galena has not been found in the massive sulphides. The disseminated sulphides are mostly ragged grains scattered throughout the host rock and are strongly intergrown with metamorphic minerals.

The textures of the sulphides are difficult to interpret with any degree of confidence. This is largely a function of the metamorphic alteration that the rocks have undergone. The massive sulphides show clear, smooth, curved equilibrium textures with silicate minerals, mostly commonly quartz. These textures are disrupted and thus overprinted by metamorphic minerals and veins. The genetic significance of the earlier equilibrium textures is, however, not clear. These textures are not with clear igneous minerals such as pyroxene or plagioclase (or their pseudomorphs) as might be hoped if the sulphides were magmatic. Indeed no magmatic

sulphide textures were observed in these rocks, so if they were originally present, they have been destroyed by metamorphic recrystallisation.

The relatively abundant presence of galena in the disseminated sulphide assemblage is most unusual for magmatic sulphides associated with mafic rocks. It may indicate that at least the disseminated sulphides or a component of the sulphides has been hydrothermally introduced into the rocks. Elements commonly associated with such hydrothermal activity are As, Bi, Te and Sb, and determination of these in selected samples may help unravel the origin of the sulphides.

TABLE 1. SUMMARY OF LITHOLOGIES AND COMMENTS

Sample No.	Location	Comments
3757218	DD94MF01-37.0	Metamorphosed shale. Yellow bands are epidote-rich assemblages.
3757219	DD94MF01-38.5	Metamorphosed shale. Contains coarse-grained bands of garnet-chlorite.
3757220	DD94MF01-38.7	Metamorphosed shale. Similar to 219.
3757221	DD94MF01-47.7	Eastern Gabbro unit. Sulphide-bearing metasomatised olivine gabbro. Contains relict igneous hornblende. Very chlorite-rich metamorphic mineralogy. Sulphides are pyrite, chalcopyrite, millerite, galena, sphalerite. Ragged metamorphic textured sulphides, no relict magmatic sulphide textures.
3757222	DD94MF01-48.25	Eastern Gabbro unit. Metasomatised dolerite. Contains relict igneous hornblende. Same sulphides as 221. Very chlorite-rich metamorphic mineralogy.
3757223	DD94MF01-48.5	Eastern Gabbro unit. Semi-massive sulphides. Pyrite, chalcopyrite, violarite, trace pyrrhotite, pentlandite. Typical supergene assemblage due to weathering of Ni-Fe sulphides.
3757224	DD94MF01-49.2	Eastern Gabbro unit. Contact of massive sulphide and metasomatised basalt. Basalt appears chilled (?) against sulphides. Sulphides are pyrite, chalcopyrite, violarite trace pentlandite, pyrrhotite. Pyrite and violarite weathering products.
3757225	DD94MF01-49.3	Eastern Gabbro unit. Two basalt/dolerite lithologies, igneous breccia? Coarser-grained lithology similar to 224. Metasomatised, chlorite-rich mineralogy.
3757226	DD94MF02-85.05	Western Gabbro unit. Metasomatised dolerite. 0.5% sulphides, same as 221. Similar general texture and chlorite-rich mineralogy to 221 and 222.
3757227	DD94MF02-96.05	Western Gabbro unit. Metasomatised dolerite. Chlorite-rich mineralogy. Graphite-bearing veins. No contact with shale in thin section nor core.
3757228	DD94MF02-97.55	Carbonate-chlorite-rich mineralogy. Graphite veins. Igneous textures mostly destroyed. Igneous comparisons not possible but texture similar to 227.
3757229	DD94MF03-24.75	Massive sulphide. Pyrite, violarite, chalcopyrite, covellite. Supergene sulphide assemblage with relict primary chalcopyrite.
3757230	DD94MF04-38.2	Eastern Gabbro unit. Massive sulphide. Pyrite, violarite, chalcopyrite. Supergene sulphide assemblage with relict primary chalcopyrite. Generally similar to 223 and 224.
3757231	DD94MF05-73.65	Third Gabbro unit? Contact between metasomatised, deformed dolerite and meta-shale. Contact deformed, dolerite textures mostly destroyed. Transposed contact?
3757232	DD94MF05-73.9	Third Gabbro unit? Metasomatised gabbro. Chlorite-carbonate rich. Coarser igneous texture but similar mineralogy to other mafic rocks.

3911734		Metamorphosed orthopyroxenite.
3911736		Metagabbro. Amphibolite facies, no metasomatism.
3911766	Nickel Reward	Metadolerite. Weathered.
3911786	South Cuni	Chalcopyrite-quartz-chlorite rock with minor millerite and sphalerite.
3911787	South Cuni	Semi massive and disseminated sulphides in metasomatised dolerite. Chlorite-rich silicate mineralogy. Pyrite, chalcopyrite minor millerite. No relict magmatic sulphide textures.
3911789	South Cuni	Metasomatised dolerite with disseminated sulphides. Pyrite, chalcopyrite, millerite. Needles not seen, probably millerite.
3911791	South Cuni	Semi-massive sulphide. Supergene violarite, pyrite and relict primary chalcopyrite. Very violarite-rich. Veins are secondary gangue minerals.

3757218 DD94MF01 - 37.0m

Thin Section

METAMORPHOSED SHALE

<u>Mineralogy</u>	<u>mode %</u>
Mica	45
Quartz	25
Feldspar	10
Chlorite	10
Rutile	4
Epidote	1
Opaque	mtr

Very fine-grained rock with grains mostly <1-10 um across making mineral identification difficult. The structures, mineralogy and implied bulk composition clearly indicate the rock is a metamorphosed shale. The thin section has 2 coarse-grained layers which contain more quartz and feldspar than in other layers and also contains minor epidote. These were originally probably sandy layers within a dominantly clay-rich sediment. Within the shale bands layering is defined by variations in mineral proportions and grain size particularly elongate lenses of slightly coarser grained material. The smooth outline of the lenses suggests that they have been flattened and stretched during deformation and recrystallisation.

The rock is cut by 0.01-0.1 mm wide veinlets of quartz, minor chlorite and opaques. These are discontinuous, almost gash-like, and the vein components have probably been derived from the surrounding rock during metamorphism.

All epidote is present within the coarser, quartz-feldspar rich layers and its presence imparts a yellowish tinge to these layers.

3757219

DD94MF01 - 38.5 m

Thin Section

METAMORPHOSED SHALE

In hand specimen the rock consists of three very distinct layers.

1. A karki coloured layer composed of extremely fine-grained (<<1 um) minerals that have not been positively identified but are probably mica, chlorite, quartz, feldspar and rutile. This layer consists of scattered 20-30 um grains in an extremely fine-grained matrix and the fabric is that of a shale with small detrital grains in a clay matrix. The detrital grain/clay matrix boundaries are now diffuse due to metamorphic recrystallisation of minerals that now cut across these contacts. Sub-layers defined by slight changes in colour, grain size and mineralogy. Discontinuous 2-4 um wide chlorite-rutile laminae are parallel to the main layering in the rock.

In one layer oval to round altered porphyroblasts of cordierite up to 0.5 mm across are present giving a micro-knotted appearance. These are now composed of very fine-grained mica and chlorite.

2. A pinkish layer 1.5 cm wide. Again the minerals are extremely fine-grained and appear to consist of chlorite, mica, rutile, quartz and feldspar. This layer contains a higher proportion of chlorite and rutile than layer 1 above. The pinkish colour appears to be due to extremely fine-grained dusty hematite. Chlorite forms abundant, anastomosing laminae. Rutile forms 0.1 mm blotches throughout the rock.

3. A generally karki coloured layer of medium grained chlorite, garnet, quartz, feldspar, minor epidote and rutile. The layer is distinctly quartz, feldspar and rutile rich near the contact with layer 2 above and more garnet, chlorite rich further away. Garnets are up to 0.3 mm across, show weak anisotropism and are slightly retrograded to ragged chlorite.

The contact between layers 1 and 2 is gradational but the layer 2/3 contact is sharp with abundant rutile concentrated along this boundary. The rutile and chlorite contents of the layer suggests that there has been loss of the other components/minerals, perhaps by pressure solution, to cause this concentration.

The garnet-chlorite layer is a recrystallised, Al-Fe rich sedimentary layer that is highly reactive relative to the remainder of the rock and hence has extensively recrystallised during metamorphism.

3757220

DD94MF01 - 38.7 m

Thin Section

METAMORPHOSED SHALE

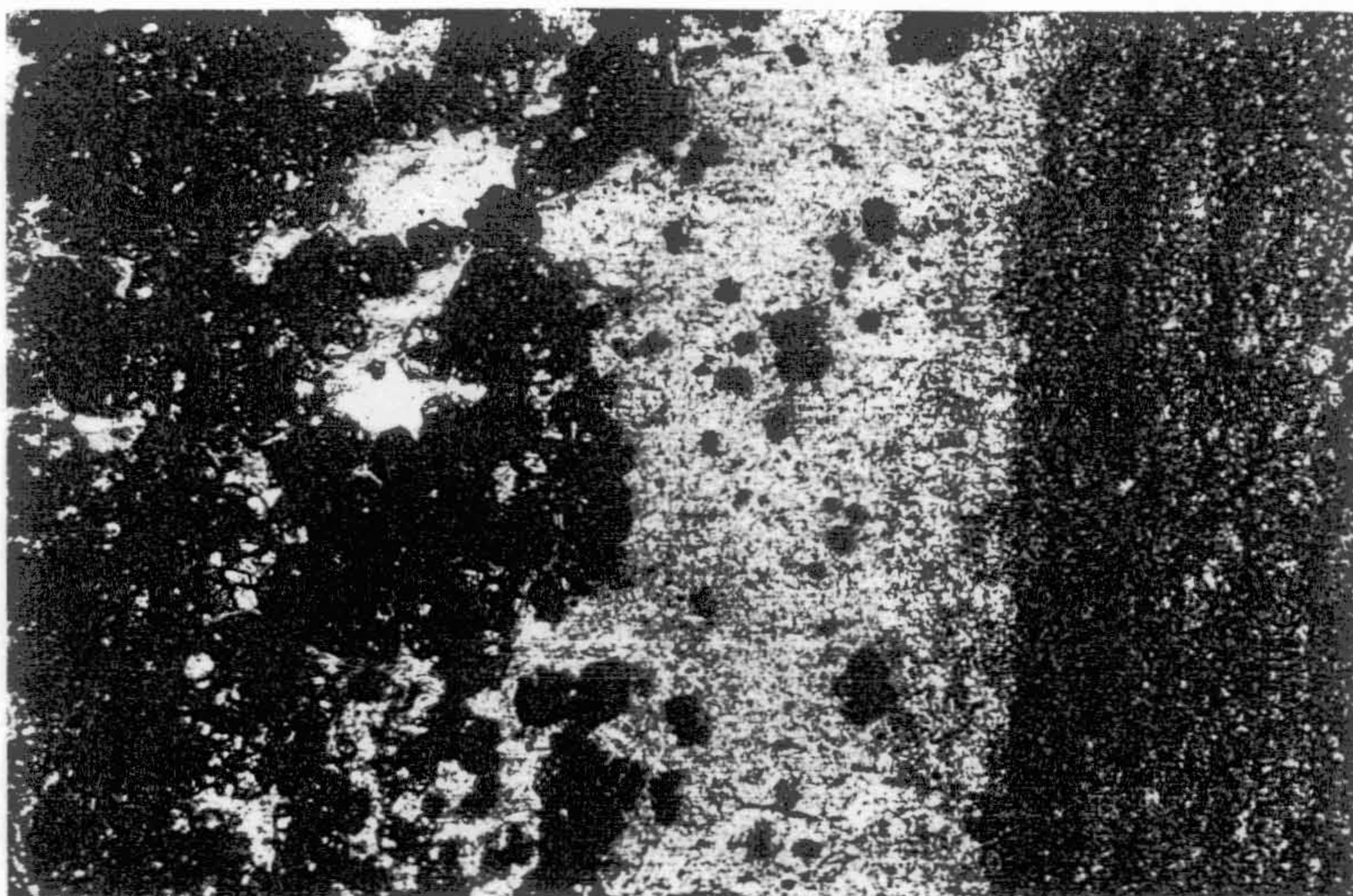
The mineralogy of this rock is similar to that in sample 3757219 and is composed of karki to pinkish coloured layers composed of chlorite, mica, quartz, feldspar, minor garnet and rutile. The pink colour appears to be due to extremely fine-grained dusty hematite. Layering is defined by colour, grain size and changing proportions of minerals, mostly chlorite, rutile and garnet. The layers which are less than a millimetre to about a centimetre wide have gradational contacts. Some layers, 0.1 - 0.6 mm wide, are composed of relatively coarse-grained garnet-chlorite rich assemblages. These are clearly originally sedimentary layers rich in Al and Fe compared to the bulk of the rock.

Widely scattered quartz grains and small aggregates (mostly <0.2 mm) are present in a very fine-grained matrix and certainly appear to have been detrital grains, now partly recrystallised, in a clay matrix. In some layers are 0.6 mm wide, round porphyroblasts of altered, highly poikilitic cordierite. Chlorite-rich laminae form a weakly anastomosing network parallel to the main layering.

Minor, discontinuous 0.1 mm wide quartz veinlets and separate chlorite veinlets are present.

The variation in grain size between different layers reflects to some degree the ease of grain recrystallisation with grains in the fine-grained layers being pinned by adjacent grains of perhaps rutile that do not recrystallise easily and thus do not allow the enlargement of the grain size.

No gabbro is present in this rock.



Sample 3757220. Contact between several layers with different mineralogies and grain size. The dark, coarse-grained minerals on the left are garnet. Plane light. Width is 2.64 mm.

3557221

DD94MF01 - 47.7 m

Polished Thin Section

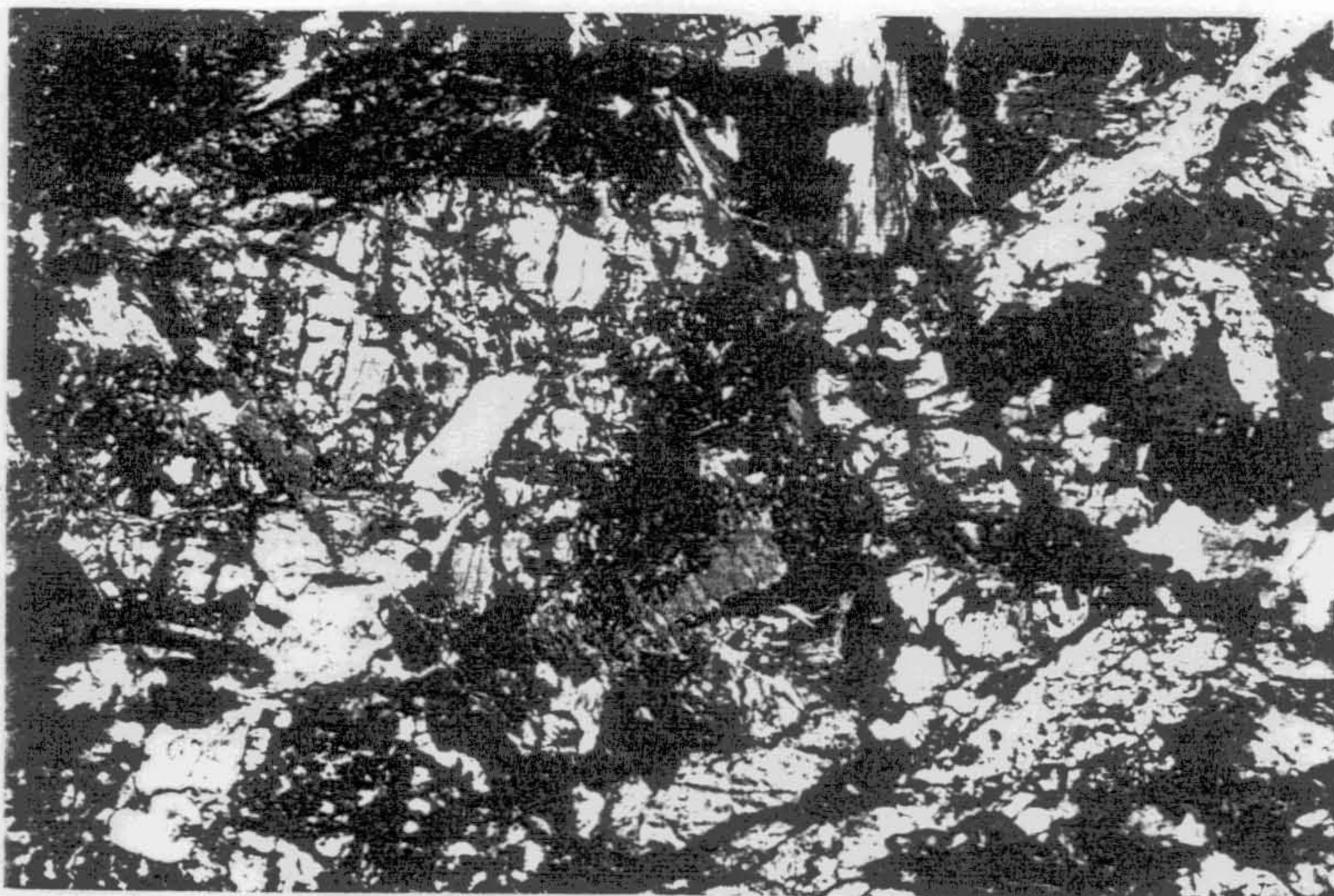
SULPHIDE-BEARING METASOMATISED DOLERITE

<u>Mineralogy</u>	<u>mode %</u>
Plagioclase	35
Chlorite	30
Actinolite	15
Olivine	5
Quartz	3
Titanite/ilmenite	5
Hornblende	2
Chalcopyrite	2
Pyrite	2
Millerite	1
Galena	tr
Sphalerite	tr
Mica	tr

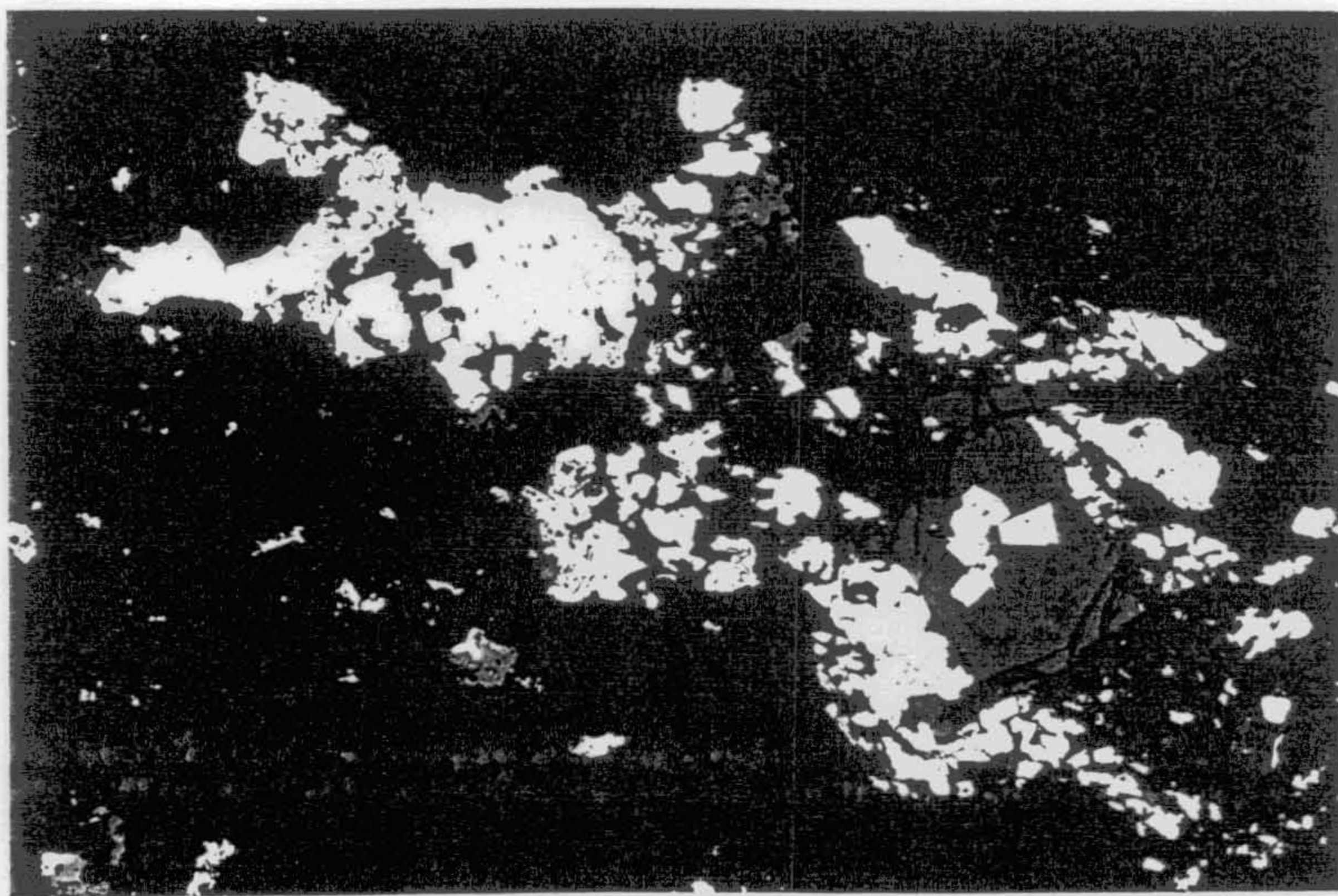
Moderately well preserved doleritic igneous texture defined by a mixture of relict igneous and metamorphic minerals. The igneous plagioclase is altered to albite and extremely fine grained mica. Interlocking laths of plagioclase up to 1.5 mm long with interstitial space filled by partly altered olivine, hornblende, chlorite, actinolite, quartz, sulphides and titanite. Former clinopyroxene is totally pseudomorphed by chlorite and actinolite. Olivine, which is a relict igneous mineral, is partly altered to chlorite. Hornblende is also a relict igneous mineral. It is green-brown and has ragged metamorphic overgrowths of actinolite. In places the hornblende appears to rim former clinopyroxene grains and may have originally moulded around these grains. Uncommon small round pseudomorphed grains included within altered pyroxene and in relict plagioclase laths appear to have been olivine. Quartz is probably a metamorphic mineral and not a recrystallised igneous relict although it occurs mostly in interstitial positions. Small grains of ilmenite, partly altered to titanite, are scattered throughout the rock.

The sulphides occur as ragged grains strongly intergrown with the metamorphic minerals. They range from isolated single 10 µm sized grains to aggregates, up to 0.4 mm across, made up of several sulphide species. No relict igneous sulphide textures are present. If such textures were originally present then the sulphides must have been extensively recrystallised during metamorphic alteration.

Much of the former pyroxene is now chlorite with only a small component of actinolite. The chlorite mode in the rock is far higher and the actinolite mode far lower than that expected from isochemical metamorphism of a dolerite. It appears that the rock has lost significant Ca during alteration.



Sample 3757221. Plagioclase, relict, partly altered olivine (yellow), hornblende (dark yellow, red), chlorite and minor quartz define a well preserved igneous doleritic texture. Hornblende moulds around olivine. FOV is 2.64 mm.



Sample 3757221. Sulphide assemblage of pyrite (pale yellow), chalcopyrite (yellow), millerite and galena (greyish). Note ragged grain shapes. Also well formed chalcopyrite in altered ilmenite. FOV is 1.32 mm

3757222

DD94MF01 - 48.25 m

Polished Thin Section

METASOMATISED DOLERITE

<u>Mineralogy</u>	<u>mode%</u>
Chlorite	35
Plagioclase	35
Hornblende	15
Actinolite	10
Titanite	3
Quartz	1
Pyrite	1
Chalcopyrite	1
Millerite	tr
Galena	tr

Igneous doleritic textures are moderately to poorly preserved. These consist of plagioclase lath up to 0.6 mm. These laths are altered to extremely fine-grained, murky minerals that are probably mica and albite. Interstitial spaces are filled by chlorite, relict igneous green-brown hornblende, actinolite and minor quartz and titanite. In places hornblende completely fills the space between plagioclase laths. The larger hornblende grains are deep green-brown in the centre to pale green, presumably more actinolitic, rims and ragged, metamorphic overgrowths. Some grains are poikilitic with inclusions of plagioclase and chlorite after pyroxene.

The interstitial areas to the plagioclase laths have poorly preserved igneous textures. These appear to be variable from small laths, to anhedral space filling grains to rounded. These grains are pseudomorphed by chlorite and minor quartz.

Opaques consist of ilmenite, partly altered to titanite, and minor, scattered ragged sulphides that are strongly intergrown with metamorphic minerals. These occur as isolated single grains and small aggregates. Sulphides are weakly concentrated in patches of strongly recrystallised chlorite-quartz assemblages. No evidence of any igneous sulphide textures is preserved. The sulphides present and their textural relationships to the silicates are similar in this sample to those in sample 3757221.

The relict igneous textures suggest that the original rock was a dolerite yet the current metamorphic mineralogy is too chlorite-rich, Ca-poor for such a protolith. Although this assemblage may have been derived from an olivine-orthopyroxene bearing, clinopyroxene-absent rock this is considered to be relatively unlikely. The rock is more likely to have undergone significant loss of Ca (and perhaps other components) during metamorphism.

3757223

DD94MF01 - 48.5 m

Polished Thin Section

MASSIVE SULPHIDE

<u>Mineralogy</u>	<u>mode %</u>
Pyrite	60
Chalcopyrite	15
Carbonate	10
Violarite	5
Quartz	4
Feldspar	3
Chlorite	2
Chromite	1
Stilpmomlane	tr
Pyrrhotite	tr
Pentlandite	tr

The sulphide assemblage is typical of that in a supergene or secondary sulphide zone due to weathering of primary Ni-Fe sulphides. Chalcopyrite is a relict of the primary zone sulphides as it is far more resistant to alteration by weathering than Ni sulphides and pyrrhotite. It occurs in very irregular shaped inclusion-rich patches and isolated chalcopyrite-rich aggregates scattered throughout the rock. Small 0.1 - 0.4 mm anhedral inclusions of pyrrhotite and pentlandite are present within the more massive chalcopyrite aggregates. These grains have been protected from supergene alteration. Elsewhere violarite pseudomorphs former pentlandite occurring as scattered 0.5 mm grains and small aggregates. The violarite is highly fractured and pitted and contains inclusions of silicates, carbonate and less commonly chalcopyrite and pyrite. Pyrite has a massive to ragged habit typically of strongly recrystallised supergene pyrite after pyrrhotite. No pyrite has a textural habit that would suggest that it is a relict of the primary sulphide assemblage. Euhedral to somewhat anhedral chromite grains with smooth curved outer boundaries against sulphide but now with numerous fractures are scattered in the sulphides.

Silicates and carbonates occur as inclusions within the sulphide aggregates, in veins and in irregular gangue-rich patches. Carbonate, quartz, feldspar, much of the chlorite and sulphides form an annealed granuloblastic fabric. This chlorite has strong pale orange-brown to green pleochroism suggesting it may contain ferric iron. Stilpmomelane and pale green ragged chlorite appears to be retrograde in origin.

A contact between different lithologies is not shown in this section.

3757224

DD94MF01 - 49.2 m

Polished Thin Section

Contact between two lithologies

A. MASSIVE SULPHIDE

<u>Mineralogy</u>	<u>mode %</u>
Pyrite	70
Chalcopyrite	10
Quartz	10
Violarite	7
Pentlandite	2
Pyrrhotite	tr
Carbonate	tr

Typical sulphide assemblage in the transition zone of weathered Ni-Fe sulphides with ragged intergrowths of pyrite, violarite and relict chalcopyrite, pentlandite and pyrrhotite. Pyrite forms ragged to massive grains with no clear pseudomorphing textures although this is typical of pyrite after pyrrhotite. Pentlandite and pyrrhotite occur as small inclusions in chalcopyrite and hence have been protected from supergene alteration. Violarite pseudomorphs pentlandite and has numerous fractures and inclusions filled by gangue, trace chalcopyrite and pyrite. Quartz within the sulphide assemblage has a granuloblastic fabric. In places, particularly near the contact with the massive sulphides, quartz has well formed, relatively coarse grained crystal shapes. The quartz is intimately intergrown with the sulphides clearly indicating quartz is part of the primary sulphide-rich assemblage.

Chalcopyrite, pentlandite, pyrrhotite and quartz are relicts of the primary assemblage. Pyrite does not have any textures such as euhedral grains that may indicate that pyrite was also part of this assemblage. The textures suggest it is all of supergene origin.

B. METASOMATISED DOLERITE

<u>Mineralogy</u>	<u>mode %</u>
Chlorite	30
Quartz	30
Plagioclase	30
Titanite	5
Actinolite	5
Mica	tr
Ilmenite	tr

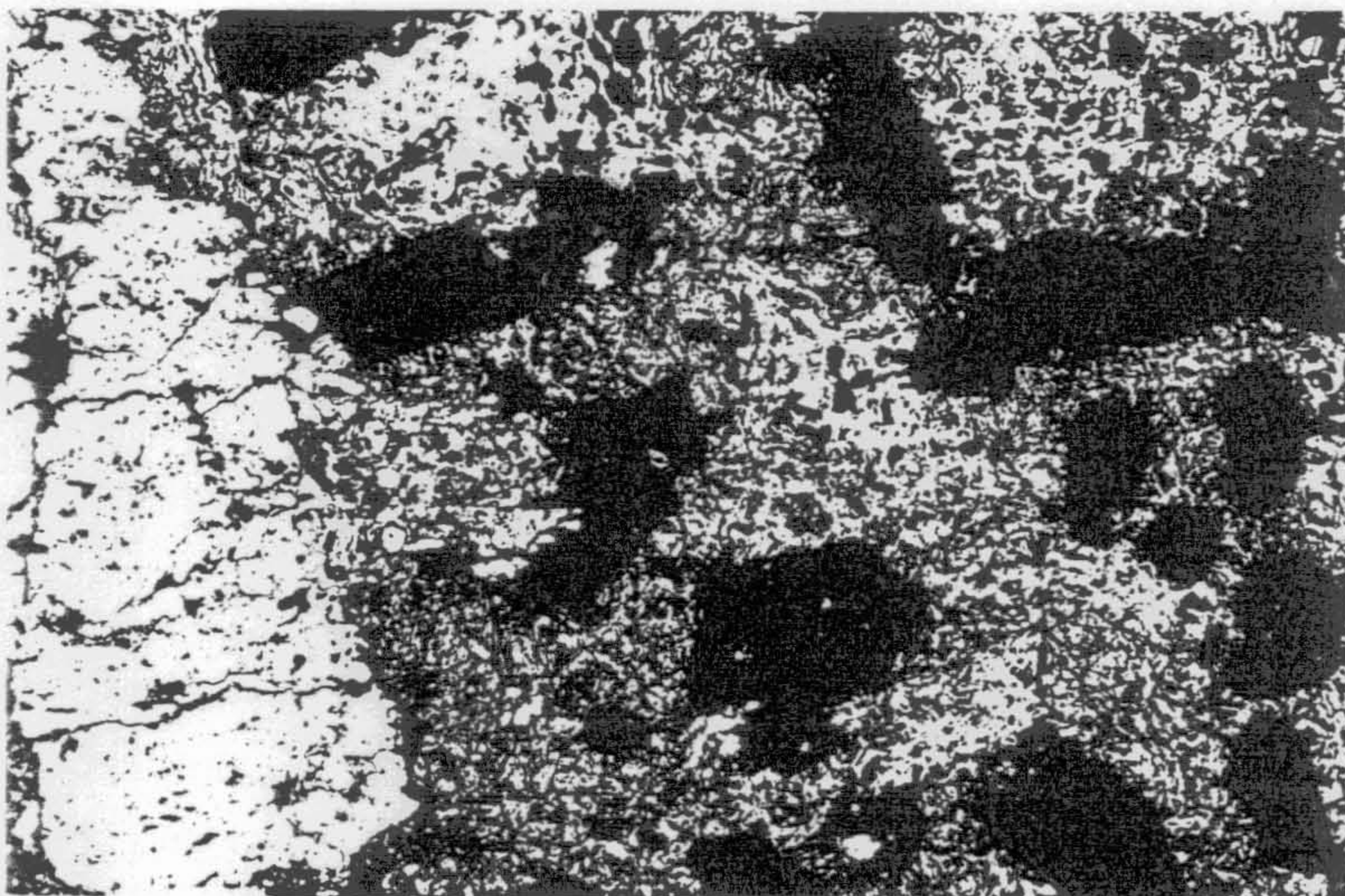
Moderate to poorly preserved igneous textures with igneous mineralogy entirely pseudomorphed by very fine-grained chlorite, plagioclase (albite?), quartz, fibrous actinolite, mica and ilmenite/titanite. The igneous texture is better preserved away from the contact with massive sulphide and more clearly shows a fine-grained doleritic to basaltic texture with laths

up to 0.15 mm long presumably after plagioclase. The laths are in a fine-grained matrix. Close to the contact is a zone sub-parallel to the contact containing possible equant phenocrysts 0.2 mm across in a very fine-grained matrix. The possible phenocrysts are pseudomorphed by chlorite and feldspar. This zone may be a chilled margin.

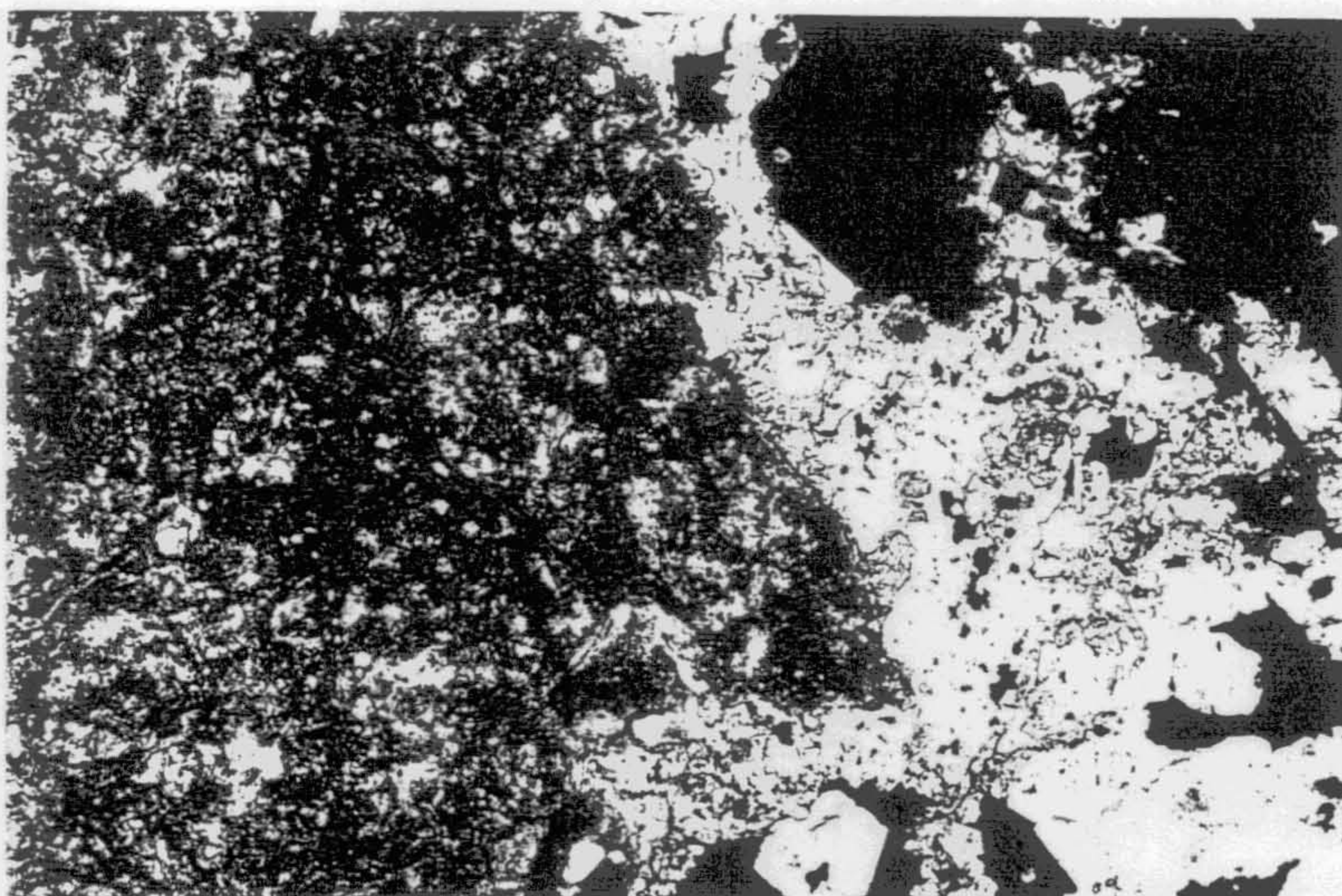
The high chlorite and low actinolite contents strongly suggest that the rock has lost Ca during alteration and that metamorphism has not been isochemical.

The contact between the massive sulphide and doleritic lithology as an irregular shape with angular embayments. Along much of the contact is a foliated chlorite vein (minor shear?) although in places the contact appears intact. Here the contact is annealed with a rapid change in grain size and mineralogy over a 0.4 mm wide, diffuse but definite contact.

Although it is difficult to be definitive with such altered rocks the relict textures appear to indicate that the dolerite has chilled against the massive sulphide. Further, the gangue mineralogy of the sulphide-rich assemblage is dominated by quartz and is not a basaltic assemblage as might be expected if the sulphides crystallised from a basaltic magma. The development of coarse, well formed quartz crystals within the sulphides near the dolerite contact may also indicate recrystallisation due to minor contact metamorphism from the dolerite. These conclusions are, however, very tentative.



Sample 3757224. Pyrite (pale yellow, left), pitted chalcopyrite (yellow) and minor violarite (light greyish) intergrown with well crystallised, single quartz grains. FOV is 2.64 mm.



Sample 3757224. Contact between sulphide, well crystallised quartz and fine-grained chlorite and basaltic to doleritic textured rock. In basaltic rock note slight increase in grain size and change in relict igneous texture away from contact. Plane light. FOV is 2.64 mm.

3757225

DD94MF01 - 49.2 m

Thin Section

METASOMATISED DOLERITE AND BASALT BRECCIA

<u>Mineralogy</u>	<u>mode %</u>
Plagioclase	35
Chlorite	32
Quartz	30
Opaque	3
Titanite	tr

The thin section contains 2 generally similar, fine-grained meta-igneous lithologies with the contact between them being sharp and angular and may represent a breccia fragment contact.

The slightly coarser-grained lithology is similar to that in sample 3757224 with stubby, equant micro-phenocrysts of pyroxene 0.2 mm across pseudomorphed by chlorite and 0.15 mm plagioclase laths now composed mostly of chlorite, fine-grained, almost cryptocrystalline plagioclase. These are in a matrix with no preserved igneous textures but presumably was originally a fine-grained mesostasis.

The other lithology has a finer-grained, basaltic texture but has very similar mineralogy to the above lithology. In addition this rock shows weak to moderate layering defined by slightly different grain size and mineralogy, particularly titanite and opaques. This banding appears to be basaltic flow banding and is certainly not of tectonic or metamorphic origin as igneous textures are equally well preserved in most of the layers.

Both the above lithologies are cut by a well spaced network of quartz veinlets.

The contact between the lithologies is, in most places, marked by a thin vein of chlorite except in one small area where the contact can be seen as sharp but apparently welded or annealed together. Thus the contact appears to be an igneous contact suggesting that the rocks form an igneous breccia.

3757226

DD94MF02 - 85.05 m

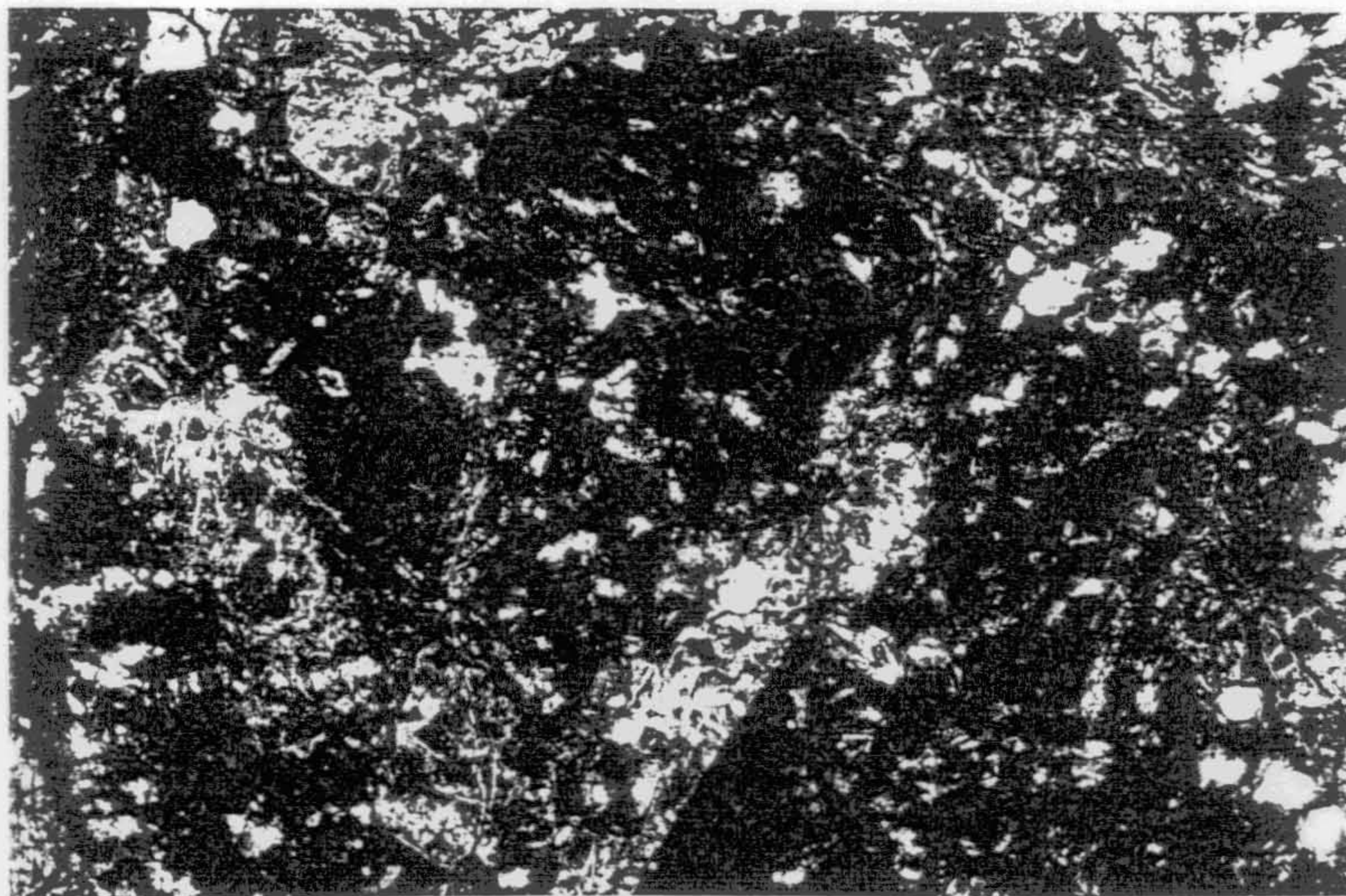
Polished Thin Section

METASOMATISED DOLERITE

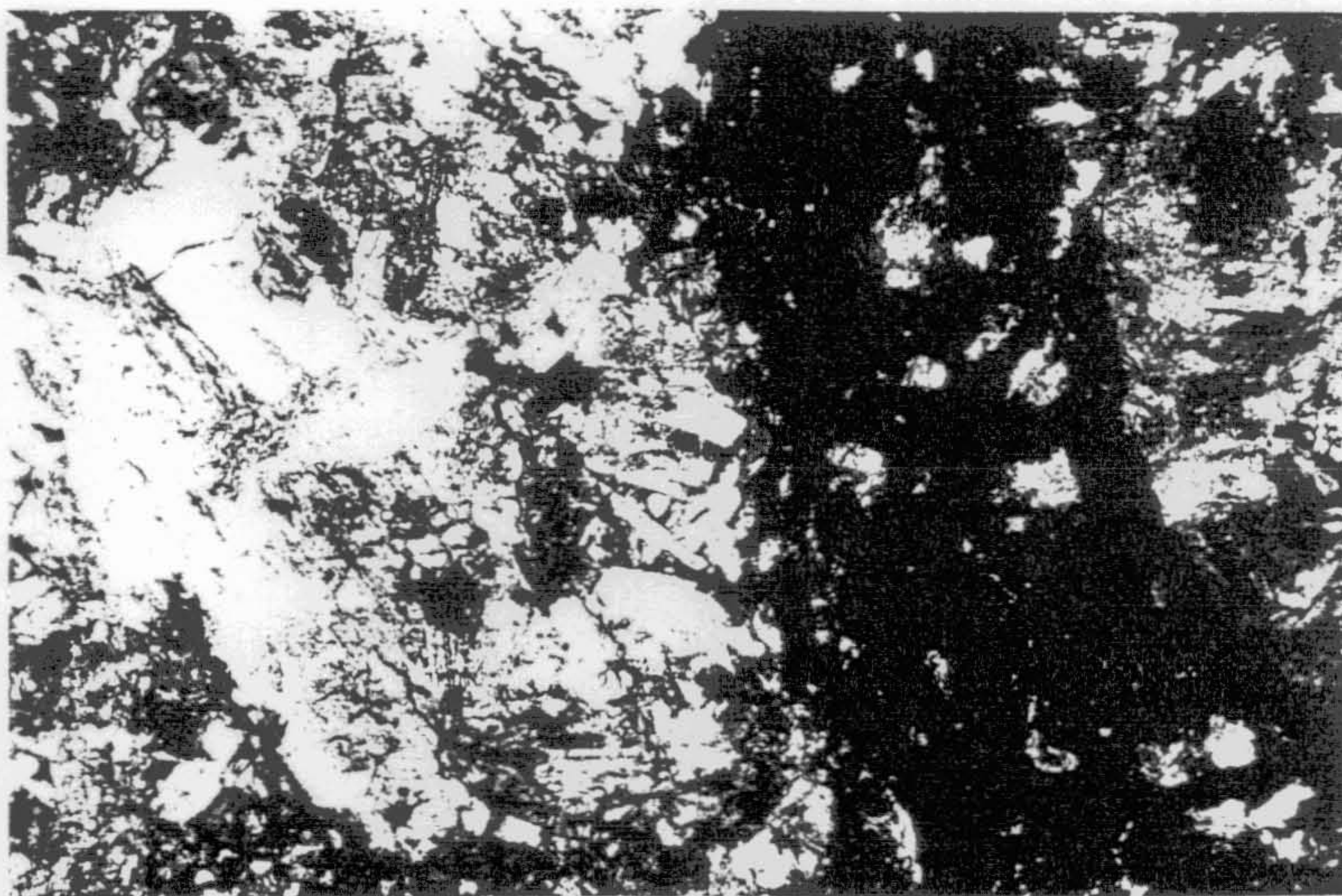
<u>Mineralogy</u>	<u>mode %</u>
Plagioclase	40
Chlorite	35
Quartz	15
Mica	5
Titanite	3
Ilmenite	2
Pyrite	tr
Chalcopyrite	tr
Millerite	mtr

Moderate to well preserved doleritic texture of plagioclase laths up to 1.2 mm long in a matrix of relatively coarse-grained chlorite, anhedral quartz, ragged titanite intergrown with ilmenite and trace sulphides. The laths have been pseudomorphed by fine-grained plagioclase, probably albite, and mica. The overall texture clearly suggests that the rock originally contained plagioclase and pyroxene typical of a dolerite but the textural position of pyroxene is now pseudomorphed by chlorite and minor quartz. Some textures pseudomorphed by chlorite are rounded grains suggesting that they may have been olivine. Fine-grained, ragged sulphides making up about 0.5 mode % occur scattered throughout the rock as isolated grains and small aggregates intergrown with the metamorphic minerals. The sulphides are mostly pyrite and chalcopyrite and trace millerite. The sulphides are clearly part of the metamorphic assemblage and there is no textural evidence to indicate whether sulphides were present prior to metamorphism.

The chlorite-rich, actionlite-absent metamorphic assemblage in a rock with such clear doleritic textures strongly suggests that the rock has undergone significant loss of Ca during the metamorphic alteration.



Sample 3757226. Relict igneous textured laths of plagioclase now composed of albite, quartz and chlorite in a matrix of relatively coarse chlorite and minor plagioclase and quartz. Note absence of actinolite. FOV is 2.64 mm.



Sample 3757227. Graphite vein cutting metamorphic plagioclase, chlorite and minor titanite assemblage. FOV is 2.64 mm.

3757227

DD94MF02 - 96.05 m

Polished Thin Section

METAMORPHOSED DOLERITE

<u>Mineralogy</u>	<u>mode %</u>
Chlorite	40
Plagioclase	25
Carbonate	20
Quartz	5
Mica	5
Titanite	2
Ilmenite	1
Graphite	2
Chalcopyrite	mtr

Moderate to poorly preserved doleritic texture composed of laths of plagioclase up to 0.4 mm long in a matrix of relatively coarse-grained chlorite, carbonate and fine-grained murky, intergrown titanite and ilmenite. Some plagioclase laths show twinning whereas most are almost entirely pseudomorphed by a very fine-grained mixture of mica, carbonate and quartz.

The rock is cut by carbonate, graphite, minor chlorite veins and diffuse, graphite-only veins. Minute amounts of ragged chalcopyrite is associated with the veins.

Although the metamorphic assemblage is chlorite-rich, the presence of abundant carbonate does not allow the extent of any Ca-metasomatic loss to be accessed for this rock. The Ca may be taken up in the carbonate, or if the carbonate is magnesite, then such loss may have occurred.

No shale contact is present in the thin section nor in the core.

3757228

DD94MF02 - 97.55 m

Thin Section

CARBONATE-RICH METADOLERITE

<u>Mineralogy</u>	<u>mode %</u>
Chlorite	40
Carbonate	35
Quartz	15
Titanite	5
Plagioclase	3
Graphite	2

Only a vague trace of relict igneous texture is preserved due to intense recrystallisation and growth of relatively coarse-grained chlorite and carbonate porphyroblasts. The igneous texture appears to be generally similar to that in sample 3757227. Much of the carbonate appears to roughly pseudomorph plagioclase laths which are up to 0.6 mm long and which are only rarely preserved. The matrix between the laths consists of chlorite and quartz and no relict igneous textures are present. Veins and chaotic-textured patches of carbonate, quartz, chlorite and probable graphite are present in one section of the slide.

3757229

DD94MF03 - 24.75 m

Polished Section

MASSIVE SULPHIDE

<u>Mineralogy</u>	<u>mode %</u>
Pyrite	45
Gangue minerals	35
Violarite	20
Chalcopyrite	tr
Covellite	mtr

The sulphide assemblage is typical of the supergene or secondary sulphide zone in weathered Ni-Fe sulphides with massive to ragged pyrite, pitted and fractured violarite. The pyrite is mostly after pyrrhotite although no relict pyrrhotite textures are preserved due to extensive recrystallisation of the pyrite. Violarite pseudomorphs scattered pentlandite grains up to 0.3 mm across and small aggregates intergrown with pyrite and gangue minerals. Chalcopyrite occurs as small, isolated grains and aggregates mostly intergrown with pyrite. The margins of some of the chalcopyrite are altered to covellite.

The sulphide is distinctly chalcopyrite-poor and violarite-rich compared to the massive sulphide in samples 3757223 and 3757224. Compared to the assay for the drill core interval from which this sample is taken this sample appears to have a low chalcopyrite mode suggesting that it is not entirely representative of the assayed interval.

3757230

DD94MF04 - 38.2 m

Polished Section

MASSIVE SULPHIDE

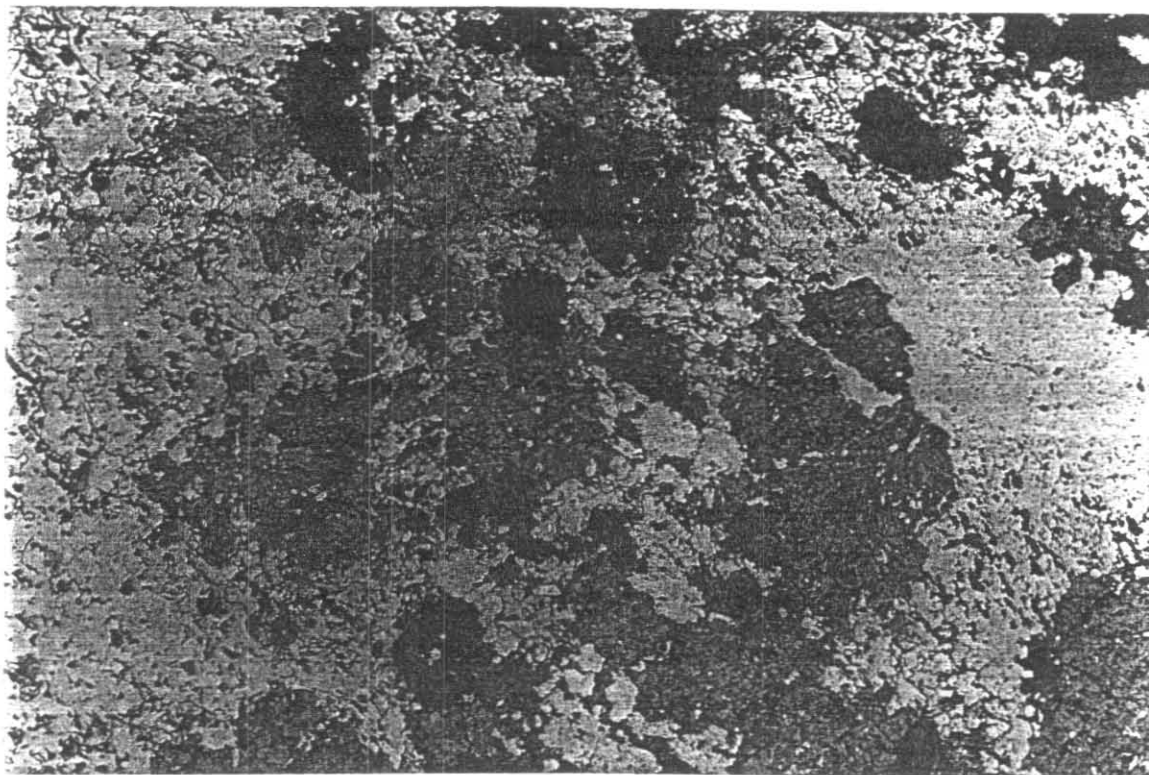
<u>Mineralogy</u>	<u>mode %</u>
Pyrite	45
Chalcopyrite	30
Violarite	15
Gangue minerals	10

The assemblage is typical of the supergene or secondary sulphide zone in weathered Ni-Fe sulphides with massive to ragged pyrite, pitted and fractured violarite pseudomorphing pentlandite and chalcopyrite generally moulded around other sulphides and gangue minerals. Violarite occurs as scattered grains up to 0.5 mm across and as small aggregates.

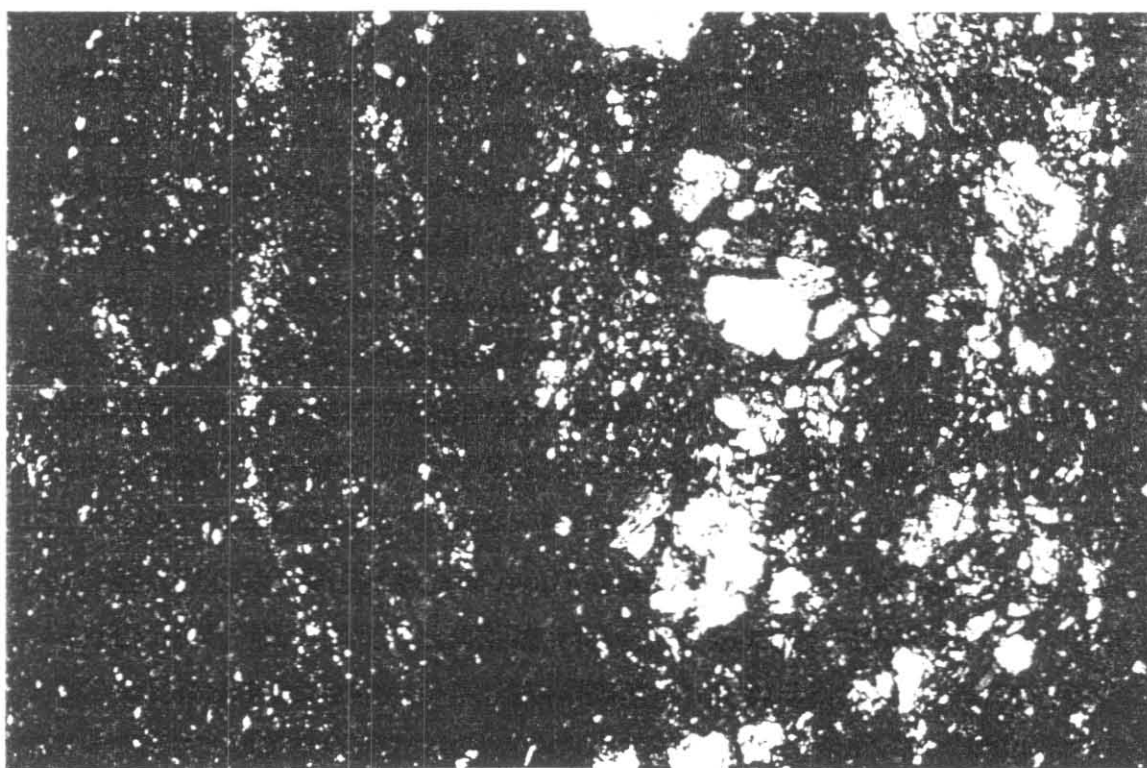
Gangue minerals have generally smooth, curved grain boundaries against sulphides suggesting that they are part of the primary, equilibrium assemblage. These boundaries have been partly modified in places due to the supergene alteration.

The relict primary textures do not provide a distinction between igneous or metamorphic primary assemblages. All they indicate is that the assemblage had an annealed, equilibrium texture. Certainly the sulphide assemblage is similar to that in magmatic sulphides associated with basic igneous rocks with typically far more chalcopyrite than in ultramafic-hosted magmatic sulphides.

The textures and mineralogy are similar in this sample to those in samples 3757223, 224 and 229 except that the mineral proportions vary.



Sample 3757230. Contact between pyrite-rich (pale yellow) and chalcopyrite-rich (yellow) areas with violarite (grey) and gangue (black). Reflected light. FOV 2.64 mm.



Sample 3757231. Contact between apparently disaggregated dolerite and very fine-grained meta-shale. The dolerite is composed of chlorite, plagioclase and quartz. The igneous rock is not finer-grained near the contact. FOV is 2.64 mm.

3757231

DD94MF05 - 38.2 m

Thin Section

Thin section contains two lithologies.

A. DEFORMED METASOMATISED DOLERITE

<u>Mineralogy</u>	<u>mode %</u>
Chlorite	40
Plagioclase	40
Quartz	12
Mica	4
Titanite	3
Opaque	1

Scattered, apparently broken, perhaps partly rounded grains and small aggregates of plagioclase and quartz in a weakly foliated matrix of chlorite and very fine-grained, scattered and partly recrystallised quartz, plagioclase, titanite and opaque. Plagioclase is weakly altered to white mica. The mineralogy is similar to many of the doleritic textured rocks that have lost Ca during metasomatic alteration. In patches there is a vague doleritic texture apparent with plagioclase laths up to 1 mm long but mostly any relict igneous texture has been destroyed by deformation.

B. METAMORPHOSED SHALE

The mineralogy mostly is too fine grained and weathered to identify optically with much certainty. The rock consists of possible detrital clasts of plagioclase, quartz and mica in a very fine-grained, murky matrix of weathered phyllosilicates (mica, chlorite?) with layers of different grain size and density of clasts. Some layers contain recrystallised quartz lenses or discontinuous laminae.

The contact between the lithologies is very sharp in places but elsewhere the lithologies appear to be partly mixed. There is no change in grain size in either lithology towards the contact. The contact appears to have undergone deformation perhaps as a result of transposition. Some of the laminae in the shale shows kink banding suggesting that the laminae may be cleavage traces rather than be sedimentary in origin.

3537232

DD94MF05 - 73.9

Thin section

METASOMATISED GABBRO

<u>Mineralogy</u>	<u>mode %</u>
Chlorite	40
Carbonate	20
Quartz	17
Plagioclase	15
Actinolite	3
Opaque	3
Titanite	2
Graphite	tr

Moderately well preserved gabbroic texture with plagioclase laths up to 3 mm and pseudomorphed, tabular pyroxene grains up to 1 mm long. Igneous plagioclase is altered to metamorphic albite, mica, carbonate, chlorite and quartz although in some laths the igneous twinning is still apparent. Pyroxenes are altered to chlorite, mica, quartz and minor actinolite. Small round pseudomorphed grains may be olivine.

The rock is cut by a few foliated bands with abundant chlorite and possible minor graphite. The texture near these bands is similar to that in sample 3757231 of apparently disaggregated plagioclase and quartz in a weakly foliated chlorite-rich matrix with corresponding loss of igneous texture.

The igneous texture and the current mineralogy is very similar to samples 3757226 and 227 although the protolith was slightly coarser-grained. The current metamorphic assemblage is too chlorite-rich to be derived isochemically from a dolerite bulk composition and it appears that the rock has lost Ca during alteration.

3911734

Rock Chip Sample

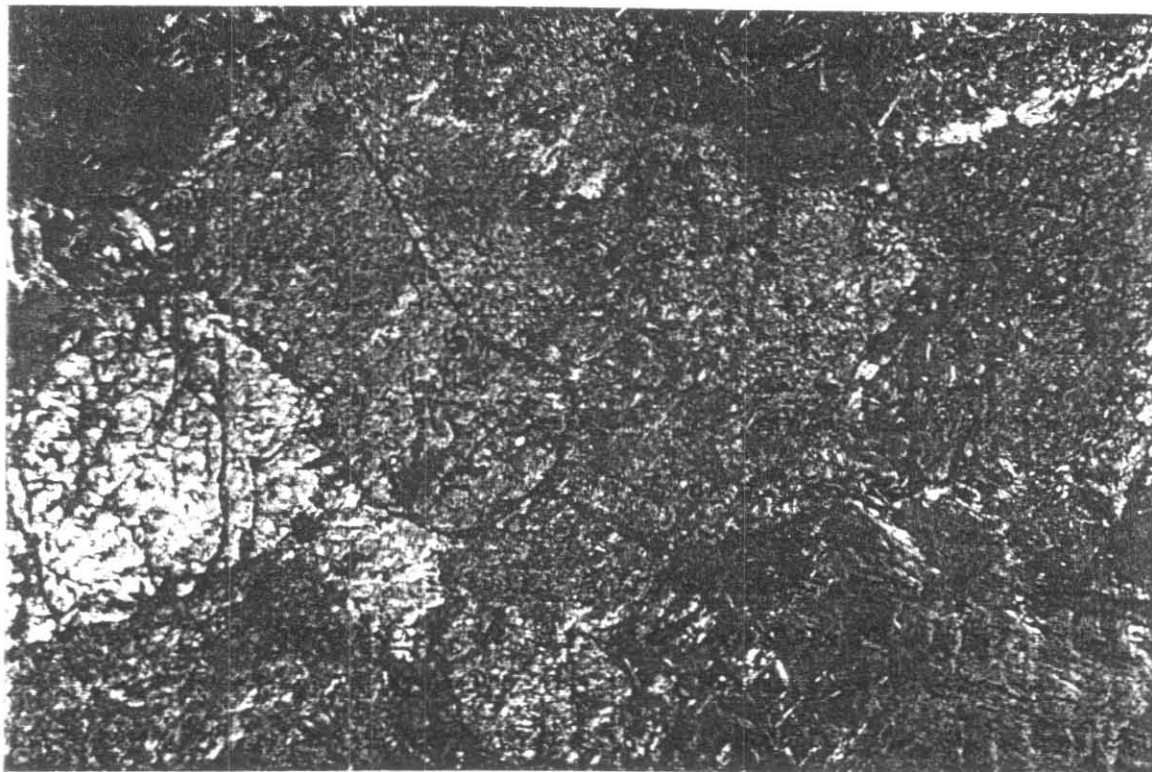
Thin Section

METAMORPHOSED ORTHOPYROXENITE

<u>Mineralogy</u>	<u>mode %</u>
Talc	85
Tremolite	13
Opaque	2
Biotite	tr

Very well preserved pseudomorphed igneous texture of polygonal shaped grains up to 4 mm across with abundant former orthopyroxene mutual grain boundaries and 120° triple-point junctions. The texture is accumulative. Talc forms large grains that entirely pseudomorph the former orthopyroxene. In places throughout the rock tremolite forms anhedral, somewhat lobate grains located at triple-point junctions and moulded around some of the smaller orthopyroxene grains. Tremolite probably pseudomorphs clinopyroxene which was originally

texturally intercumulus and partly oikocrystic. Some tremolite has clearly partly replaced some original orthopyroxene although mostly the igneous textures are clearly preserved. Small ragged dark brown biotite grains are scattered throughout the rock and are clearly metamorphic in origin.



Sample 3911734. Large talc pseudomorphs after polygonal-textured orthopyroxene. Minor, somewhat ragged tremolite (dark blue, red) occurs in a former intercumulus textural position. FOV is 2.64 mm.

3911736

Rock Chip Sample

Thin Section

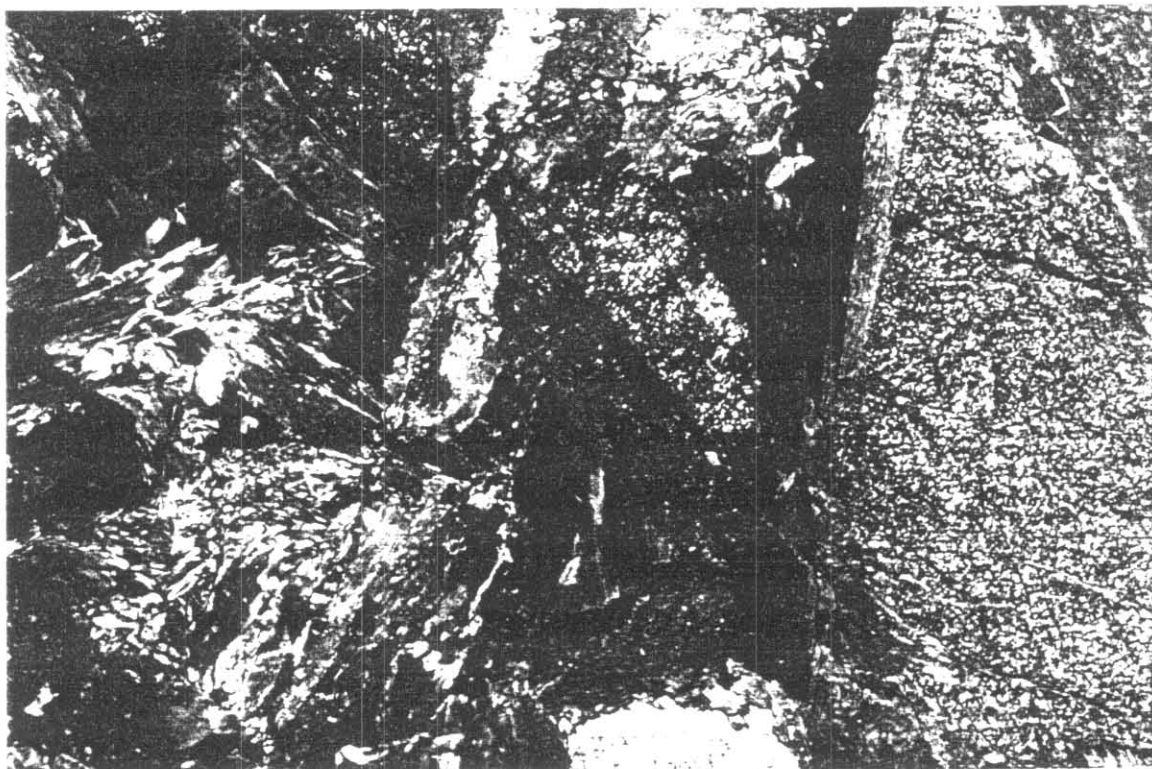
METAMORPHOSED GABBRO

<u>Mineralogy</u>	<u>mode %</u>
Plagioclase	45
Amphibole	40
Quartz	7
Chlorite	5
Opaque	3
Epidote	tr

Well preserved igneous texture of interlocking plagioclase laths up to 7 mm long, amphibole as laths up to 4 mm long and as stubby to anhedral interstitial grains. Amphibole consists of several species. Most is hornblende with green-brown cores and paler green rims and ragged overgrowths. This amphibole clearly pseudomorphs former pyroxene and is thus metamorphic

in origin. The paler rims and particularly the ragged overgrowths probably have actinolitic compositions. Quartz is scattered in interstitial textural positions. Opaques appear to be ilmenite partly altered to titanite as they have highly skeletal habit typical of igneous ilmenite. In places fine to medium grained plagioclase and amphibole in interstitial positions is altered to fibrous actinolite, chlorite, epidote and quartz. This alteration, and weak alteration of the large plagioclase laths to very fine-grained mica and epidote, is of retrograde metamorphic origin.

The primary metamorphic assemblage of plagioclase and hornblende indicates an amphibolite facies metamorphic grade, considerably higher than suggested by the assemblages in other basic igneous rocks in this suite of rocks.



Sample 3911736. Hornblende pseudomorphing tabular clinopyroxene and plagioclase partly retrograde altered to mica and epidote. Minor retrograde fibrous actinolite is present in interlath positions. FOV is 2.64 mm.

3911766

Nickel Reward

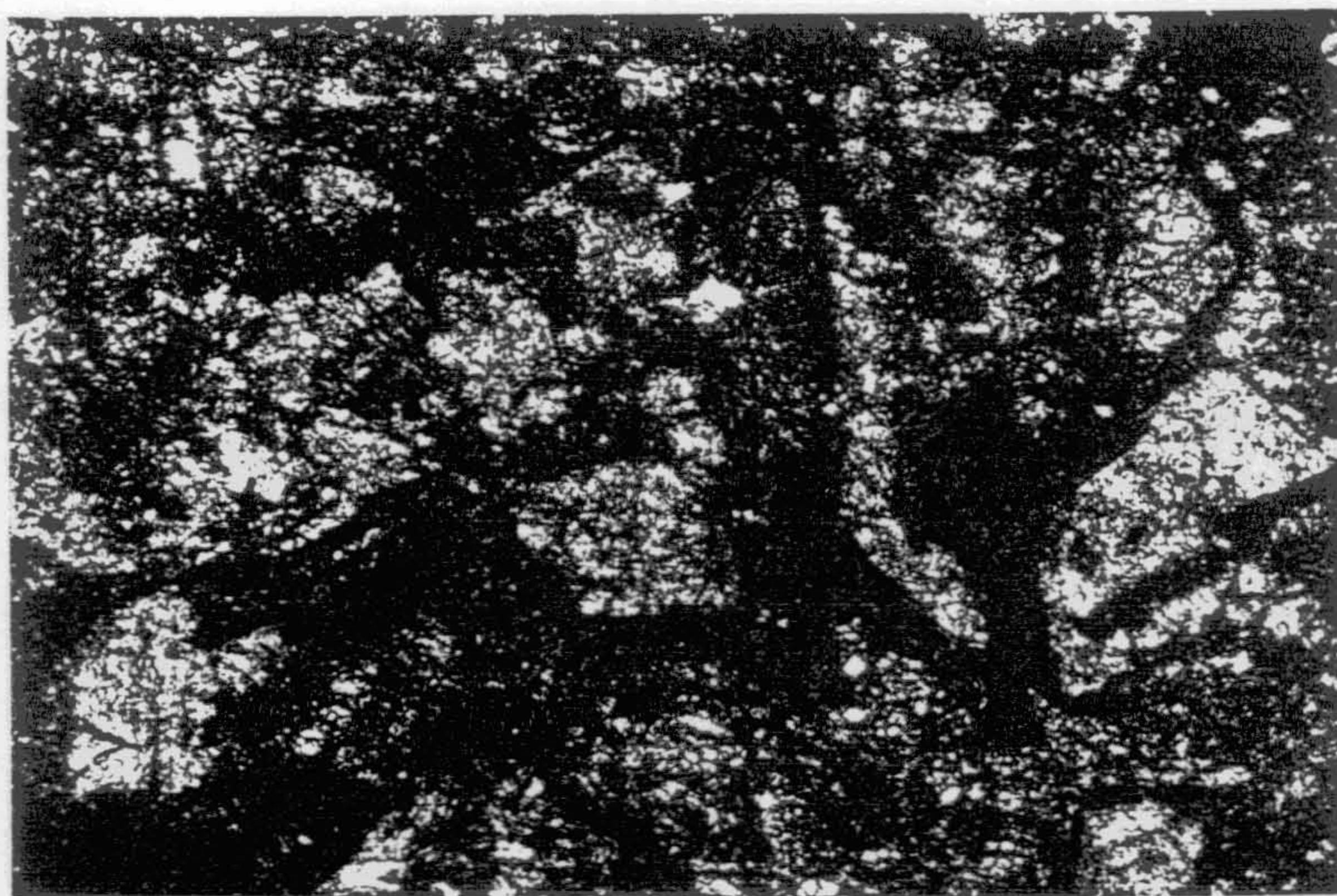
Thin Section

METAMORPHOSED DOLERITE

The mineralogy of the rock is difficult to determine due to weathering coupled with generally fine grain size. The mineralogy appears to have been chlorite, plagioclase, minor quartz and probable fine-grained fibrous amphibole and opaque.

Igneous textures are poorly preserved but can be seen under crossed polarised light. The texture consists of interlocking narrow laths up to 2 mm with interstitial areas composed of fibrous amphibole. The laths clearly were plagioclase and rarely ghost twinning is apparent. The interlath areas were probably pyroxene and other phases. Opaques are weakly skeletal and indicative of igneous ilmenite.

If the identification of amphibole is correct then this rock may not have undergone the same metasomatic loss of Ca that many of the other mafic rocks in this suite appear to have suffered.



Sample 3911766. Relict igneous texture within murky, partly weathered very fine grained minerals. Texture is seen only under crossed nicols. FOV is 2.64 mm.

3911786

South Cuni

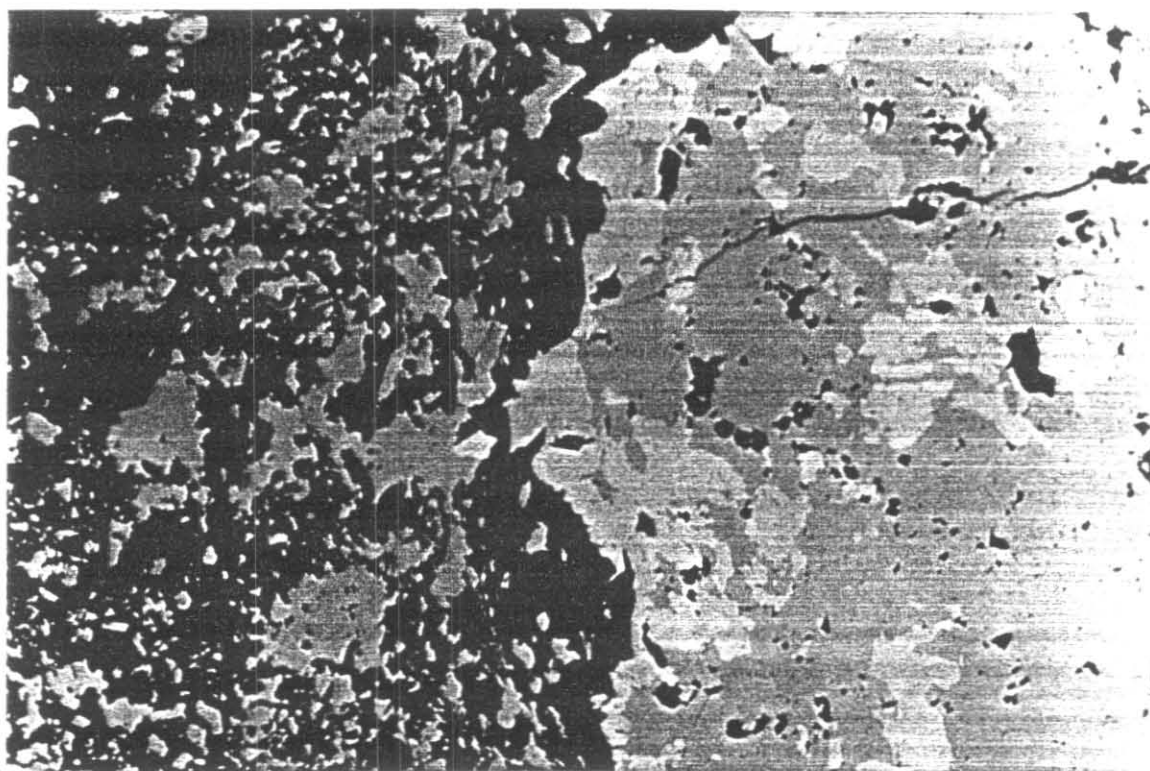
Polished Thin Section

SEMI-MASSIVE SULPHIDE

<u>Mineralogy</u>	<u>mode %</u>
Chalcopyrite	60
Quartz	25
Chlorite	13
Millerite	2
Sphalerite	tr

The texture of the rock is a mixture of a linked network of irregular massive patches and zones with oval to irregular shaped patches of sulphide-quartz-chlorite intergrowths. These latter consist of well crystallised single quartz grains and small quartz aggregates intergrown with sulphides. Intergrown with the quartz aggregates is fine-grained, ragged chlorite that appears to pseudomorph an earlier mineral. Certainly the quartz and sulphides formed an equilibrium mineral assemblage.

The sulphides consist of chalcopyrite with smooth, curved, equilibrium shaped inclusions of pyrite and millerite as single grains (up to 0.1 mm) and small aggregates (0.3 mm across). Trace amounts of sphalerite as 10-30 μ m sized inclusions are also present.



Sample 3911786. Contact between massive chalcopyrite-rich sulphide, containing inclusions of pyrite (whitish yellow) and millerite (cream yellow), and a patch of chalcopyrite, minor millerite and quartz. FOV is 2.46 mm.

3911787

South Cuni

Polished Thin Section

METASOMATISED SULPHIDE-BEARING DOLERITE

<u>Mineralogy</u>	<u>mode %</u>
Chlorite	30
Pyrite	25
Plagioclase	20
Quartz	13
Actinolite	5
Chalcopyrite	4.5
Titanite	2
Millerite	0.5

Moderately weathered rock with irregular, ragged semi-massive sulphide in a metasomatised doleritic rock. Igneous textures in the silicate-rich part of the rock are poorly to moderately well preserved. These consist of laths up to 1.5 mm long pseudomorphed by very fine-grained chlorite with interlath areas composed of partly altered anhedral plagioclase and quartz. Patches of fibrous to fine-grained tabular actinolite is present but in most of the slide no amphibole is present suggesting that the rock has lost some of its Ca during alteration.

Sulphides occur strongly intergrown with the metamorphic minerals. Where sulphides are semi-massive and form 70% of the assemblage, the silicate assemblage is generally similar to that of the surrounding rock but the primary fabric has a distinctly polygonal or granuloblastic fabric and not clearly igneous as in the surrounding rock. Throughout the silicate-rich portion of the rock sulphides are present again strongly intergrown with the metamorphic minerals and clearly cutting across relict igneous textures. There are no clear magmatic sulphide textures present.

It is not possible to determine from the current textures whether the sulphides were part of the igneous assemblage or are entirely metamorphic/metasomatic in origin. The textures are clearly not classic magmatic sulphide textures. Nevertheless the sulphide-silicate primary textures are equilibrium textures that have been disrupted by metamorphic recrystallisation.



Sample 3911787. Igneous-textured laths, probably of plagioclase, pseudomorphed by very fine-grained chlorite in a matrix of plagioclase and quartz with minor titanite after ilmenite. FOV is 2.64 mm.

3911789

South Cuni

Polished Thin Section

METASOMATISED MAFIC ROCK

<u>Mineralogy</u>	<u>mode %</u>
Chlorite	45
Plagioclase	35
Quartz	10
Chalcopyrite	3
Titanite	2
Millerite	tr
Pentlandite	mtr

Partly weathered and murky fine grained intergrowth of chlorite, plagioclase, quartz, and titanite with no clear preserved relict igneous texture. Throughout the rock are equant to ragged patches, 1.5 mm across, of aligned chlorite that may represent pseudomorphed phenocrysts in a much finer-grained, even-textured matrix. This interpretation is not certain. The rock is cut by occasional chlorite veins

Sulphides occur as ragged grains scattered throughout the rock and somewhat concentrated within the chlorite-rich veins. The rock is weakly banded caused by slight mineral mode variation including sulphide content and texture.

The similarity in mineralogy of this rock to the clearly relict igneous textured but metasomatised doleritic rocks suggests that this sample is a generally similar lithology.

3911791

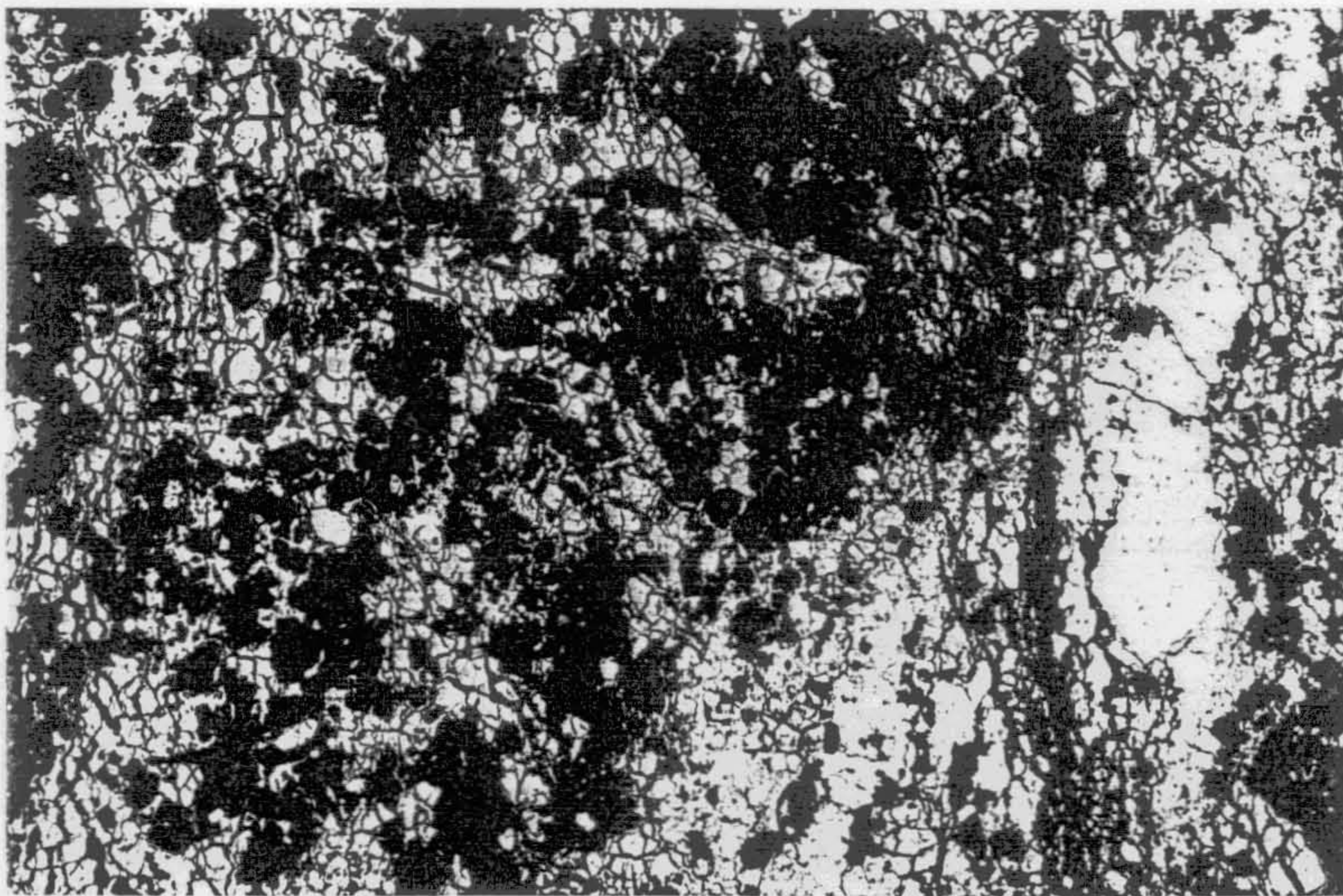
South Cuni

Polished Section

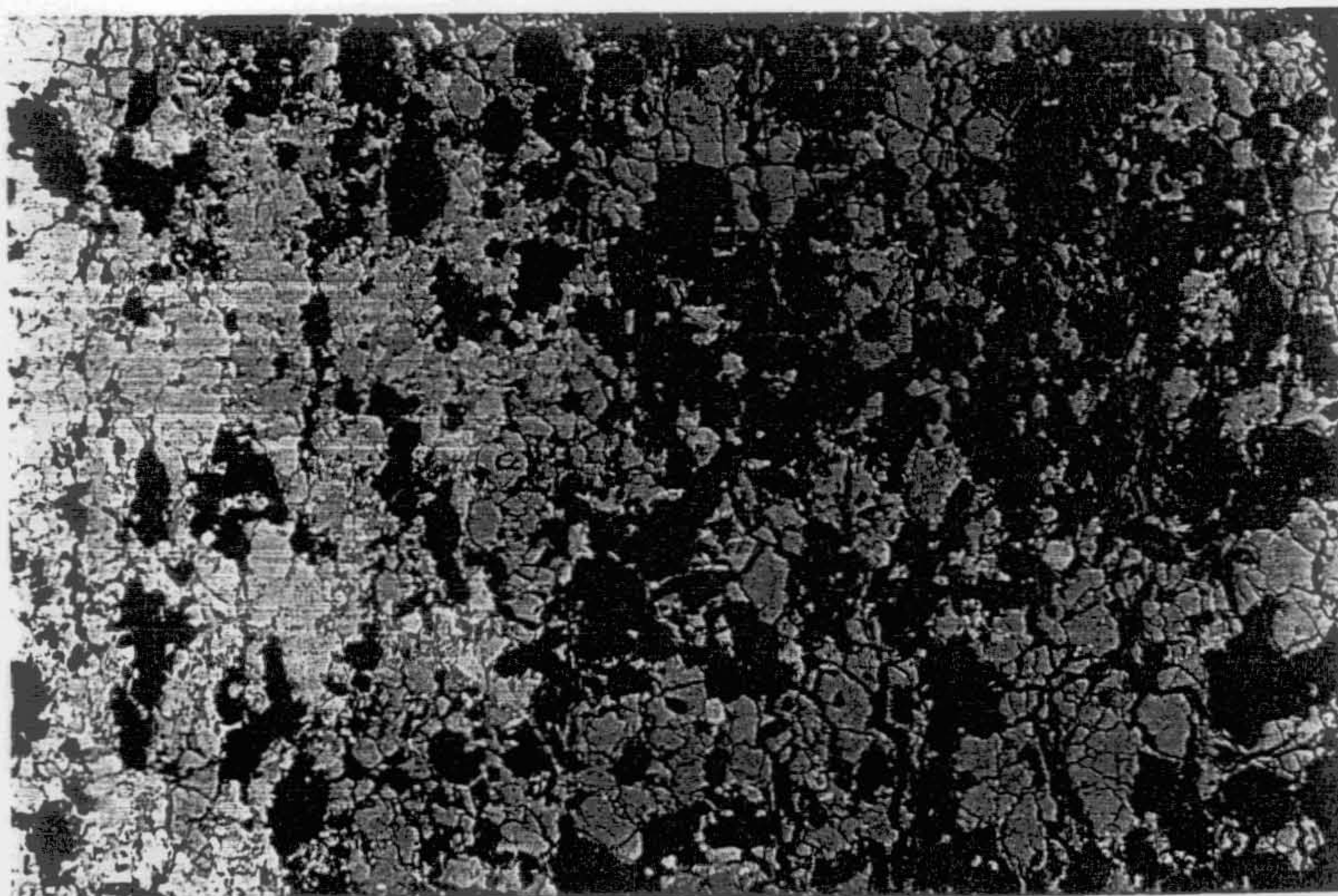
SEMI-MASSIVE SULPHIDE

<u>Mineralogy</u>	<u>mode %</u>
Violarite	45
Gangue minerals	40
Pyrite	10
Chalcopyrite	5

Typical supergene or secondary sulphide zone assemblage formed by weathering of Ni-Fe sulphides. Violarite is pitted and fractured and pseudomorphs a relatively coarse-grained aggregate of pentlandite. Pyrite occurs as scattered, anhedral, ragged grains intergrown particularly with chalcopyrite but also violarite. In places pyrite also forms generally lens-like aggregates up to 1 cm long. These are of uncertain origin. Chalcopyrite, which is a relict of the primary sulphides, is present as anhedral space-filling grains. Gangue minerals have two habits: as grains and aggregates with smooth, curved grain boundaries in textural equilibrium with the primary sulphides and as vein and fracture filling particularly in violarite



Sample 3911791. Supergene sulphide assemblage of veined and fractured violarite (light grey), pyrite (pale yellow, right) and scattered chalcopyrite. Note gangue had equilibrium textures with the primary sulphide assemblage. FOV is 2.64 mm.



Sample 3911791. Pyrite-chalcopyrite-rich patch within veined and fractured violarite. Note pyrite is somewhat ragged. FOV is 1.32 mm.



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23rd September 1994

Dr. Martin Gole
C/- CRA Exploration Pty. Limited
21 Wynyard St.
BELMONT WA 6104

Re: Petrology - DPO 375725

Martin, -

I have sent six samples for whole rock geochemistry and require a petrological description for each sample. The first four samples are from the Cunt gabbroic dykes. (see Table I below). The final two samples are from CSR diamond drill core which intersected gabbroic dykes near the Lead Blocks workings (Pb-Zn), approximately 300m to the east of the North Cunt mine. The Serpentine Hill Ultramafic Complex lies a further 500m to the east.

Attached are the CSR description of the core and the petrological report for the samples (CRAE sample 3757237 equivalent to T.S. 34116, 3757238 equivalent to T.S. 34122). Please provide a lithological and textural description for each sample, including photomicrographs if relevant and compare the two CSR core samples to the eastern and western gabbroic dykes. Could you please return sections and off cuts. For internal purposes use cost code G02140.

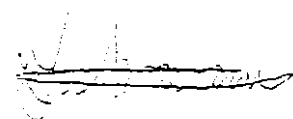
Sample Number	Unit	DDH	Depth m
3757233	Eastern Gabbro	MF021	43.4
3757234	Western Gabbro	MF051	35.5
3757235	Eastern Gabbro	MF021	40.1
3757236	Western Gabbro	MF051	37.3
3757237	Lead Blocks	CG21	186.7
3757238	Lead Blocks	CG21	108.5

Table I.

Sample Number	Ag ppm	Bi ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ni ppm	Pb ppm	Zn ppm
3757233	<1		53	165	70	3.9	36	9	35
3757234	<1		55	48	67	7.9	70	22	50
3757235	<1		60	197	126	9.9	288	<3	110
3757236	<1		33	117	69	11.9	97	<3	122
3757237	3	60	35	190	175		360	130	130
3757238	2	60	53	301	105		155	80	340

Table II. Geochemical assays

Please do not hesitate to contact me if you have any queries.



Theo Aravanis
Project Geologist

CRAE DPO 77375

REPORT TO CRA EXPLORATION PTY LTD

PETROGRAPHIC DESCRIPTION OF ROCK SAMPLES FROM
CUNI AND LEAD BLOCKS, TASMANIA

Martin Gole
November 1994

SUMMARY

Six rock samples are herein petrographically described and summary data is listed in Table 1.

Four of the rocks are dolerites. Of these three have very chlorite-rich metamorphic mineralogies consistent with significant loss of Ca (and perhaps other components) during metamorphic alteration. The other dolerite (3757235) contains abundant metamorphic actinolite and appears to have been largely isochemically recrystallised. The metasomatism, and indeed the general metamorphic recrystallisation makes petrographic comparisons between the rocks very difficult. Indeed on the basis of the petrography the different gabbroic units cannot be distinguished.

Sample 3757234 is unlike any other mafic rock in this suite of rocks (including those described in the report for DPO 77371). This rock retains most of its igneous mineralogy of plagioclase, olivine and highly skeletal ilmenite although clinopyroxene is totally altered. The rock is very coarse-grained and is pegmatoidal. The minerals proportions suggest that the rock is a troctolitic gabbro.

The other lithology in this suite is a metamorphosed olivine orthocumulate and again it is unlike any other rock described in this collection of samples. From the petrography it can not be determined whether the rock is in any way related to the mafic rocks described. It may be related through a fractionation sequence of olivine cumulate to pyroxene cumulate (pyroxenite) to pyroxene-plagioclase cumulate (gabbro). Without this stratigraphic sequence being recognised in the field then magmatic relationships between such rocks are difficult to unravel as these rocks may or may not be genetically related.

TABLE 1. SUMMARY OF LITHOLOGIES AND COMMENTS

3757233	Eastern Gabbro DD94MF02-43.4	Metasomatised dolerite. Contains relict igneous hornblende, similar to 3757221 and 222. <i>Chlorite-rich mineralogy.</i>
3757234	Western Garro DD94MF05-85.6	Olivine-rich gabbro or troctolitic pegmatoid. Fresh igneous mineralogy, trace hornblende. Igneous mineral proportions unlike any other rock in suite described.
3757235	Eastern Gabbro DD94MF02-40.1	Metamorphosed dolerite. Contains relict igneous hornblende. Generally similar igneous rock to 233. Not metasomatised and contains abundant metamorphic actinolite.
3757236	Western Gabbro DD94MF05-57.8	Metasomatised dolerite. <i>Chlorite-rich mineralogy.</i>
3757237	Lead Blocks CG2-386.7	Metamorphosed olivine orthocumulate (peridotite).
3757238	Lead Blocks CG2-408.5	Metasomatised dolerite. <i>Chlorite-rich mineralogy. Generally similar to other Ca-depleted dolerites in suite described.</i>

3757233

DD94MF02 - 43.4 m (Eastern Gabbro)

Thin Section

METASOMATISED DOLERITE

<u>Mineralogy</u>	<u>mode %</u>
Plagioclase	25
Chlorite	25
Hornblende	15
Olivine	5
Mica	5
Actinolite	3
Titanite	3
Opaque	2
Quartz	tr

Well preserved doleritic texture with relict plagioclase laths up to 1.8 mm long. The laths consist of metamorphic albite, fine-grained mica, quartz and chlorite. Olivine forms anhedral grains up to 1.6mm across now 40 to 80% altered to chlorite. Presumably serpentine is not stable in such an Al-rich bulk composition. Hornblende appears to have formed grains that were partly moulded around plagioclase and former pyroxene grains and were weakly poikilitic. In places the hornblende is strongly zoned with deep red brown cores and dark green rims with ragged, pale green metamorphic actinolitic overgrowths. The cores of the hornblende may have kaersutitic compositions. Between the igneous-textured framework of plagioclase laths and grains of olivine and hornblende are relatively coarse-grained chlorite intergrown with minor ragged, fine-grained actinolite needles, titanite and opaque.

The current mineralogy and relict igneous texture is very similar to samples 3757221 and 222 (Report for DPO 77371) except for the presence of sulphides in these latter rocks. As with many of the doleritic rocks in the suite of mafic igneous rocks from the general area the chlorite-rich assemblage strongly suggests that the rock has undergone loss of Ca during metamorphic alteration.



Sample 3757233. Relict igneous brown-green hornblende, altered plagioclase laths in a matrix of chlorite and minor other phases. Plane light. FOV is 2.64 mm.



Sample 3757234. Very coarse grained igneous mineralogy with pegmatoidal texture consisting of olivine, plagioclase, highly skeletal ilmenite and minor hornblende. FOV is 2.64 mm.

3757234

DD94MF05 - 85.6 m (Western Gabbro)

Thin Section

METAMORPHOSED OLIVINE-RICH GABBRO PEGMATITE

<u>Mineralogy</u>	<u>mode %</u>
Plagioclase	40
Olivine	30
Chlorite	15
Actinolite	5
Carbonate	3
Titanite	3
Opaque	2
Mica	2
Hornblende	tr
Quartz	tr
Talc	tr

Very well preserved, very coarse-grained igneous texture and mineralogy. The rock is dominated by interlocking plagioclase laths up to 4 mm long and anhedral to elongate olivine grains rarely up to 6 mm long. Interstitial space between these minerals is filled by chlorite, minor relict igneous hornblende, opaque, titanite and carbonate. Plagioclase is moderately to strongly altered to white mica and minor chlorite. Olivine is weakly altered (10-20%) to chlorite, minor talc and, in places, to possible trace serpentine. Green to brown hornblende forms small grains only along the grain boundaries of former igneous minerals. Opaques have a strongly skeletal habit and are probably relict igneous ilmenite partly altered to and intergrown with titanite. The interstitial space originally available for pyroxene was only about 15-20 %.

The igneous mineralogy consisted of plagioclase, olivine, pyroxene, minor hornblende and ilmenite. The rock was very olivine-rich and the large grain sizes indicate that the rock is pegmatitic.

Although the mode of this rock is different its igneous mineralogy was perhaps not dissimilar to that in 3757233.

3557235

DD94MF02 - 40.1 m (Eastern Gabbro)

Thin Section

METAMORPHOSED DOLERITE

<u>Mineralogy</u>	<u>mode %</u>
Plagioclase	45
Actinolite	20
Chlorite	15
Quartz	5
Carbonate	5
Titanite	3
Olivine	3
Hornblende	3
Clinopyroxene	tr

Moderate to well preserved subophitic doleritic texture of interlocking plagioclase laths up to 0.7 mm long pseudomorphed by metamorphic plagioclase (probably albite) and other very fine-grained minerals. Trace amounts of relict clinopyroxene are present as cores in fine-grained actinolite and chlorite which pseudomorph stubby to tabular grains. Minor olivine as rounded relict grains are mostly altered to chlorite. Brown-green hornblende occurs apparently moulded around former pyroxene grains in interstitial textural positions and have metamorphic overgrowths of fibrous actinolite. Carbonate and some quartz occurs in patches throughout the rock.

The current mineralogy is in the proportions expected from essentially isochemical greenschist facies metamorphism of a dolerite. This rock has a distinctly different metamorphic mineralogy than many of the altered mafic rocks from this area that have undergone metasomatism and loss of Ca.

The rock appears to have had a similar igneous mineralogy to 3757233.

3757236

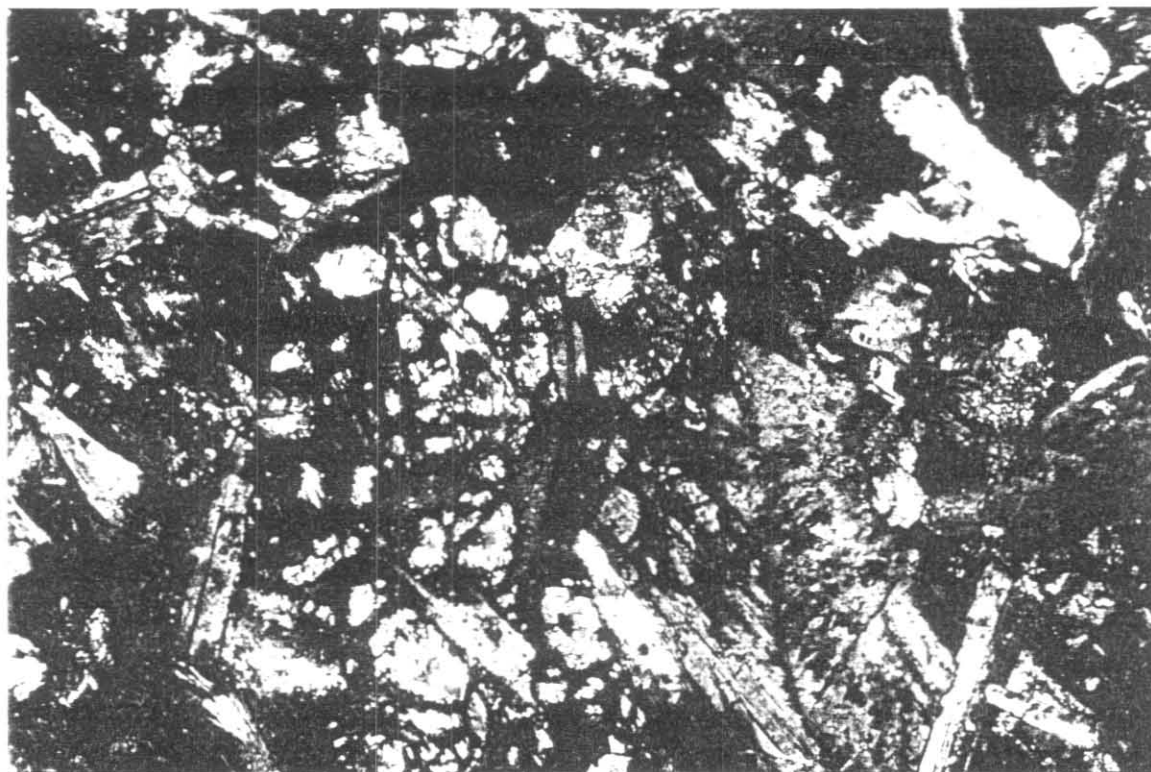
DD94MF05 - 57.8 m (Western Gabbro)

Thin Section

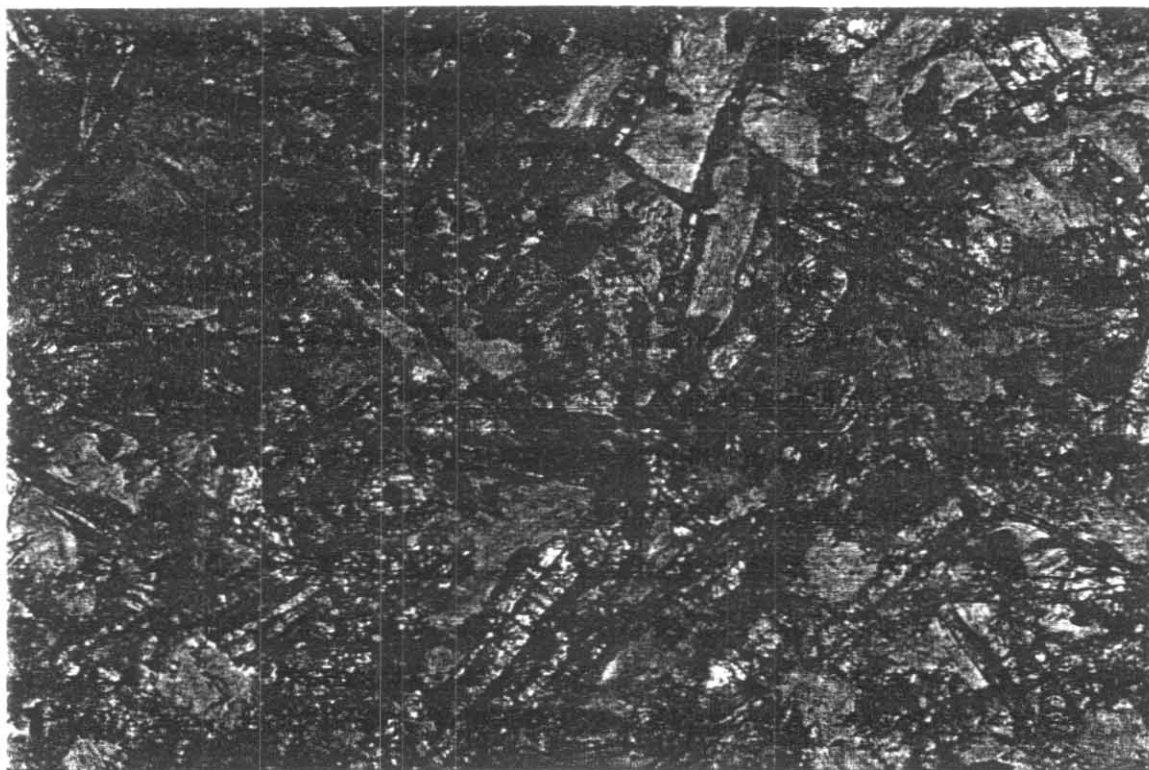
METASOMATISED DOLERITE

<u>Mineralogy</u>	<u>mode %</u>
Chlorite	40
Plagioclase	40
Mica	17
Titanite	2
Opaque	1

Well preserved doleritic texture of interlocking laths up to 1 mm long after igneous plagioclase. Plagioclase contains variable amounts of white mica with laths being totally altered to mica in places. Interlath matrix consists of chlorite and minor opaque and titanite



Sample 3757235. Relic igneous olivine (yellow), metamorphic plagioclase pseudomorphing igneous laths, chlorite, actinolite and minor carbonate. FOV is 1.32 mm.



Sample 3757236. Well preserved doleritic texture now composed of interlath chlorite, and plagioclase and mica pseudomorphing igneous plagioclase laths. FOV is 2.64 mm.

with no preserved igneous texture. Several chlorite types are present, including a brown-green pleochroic variety that may contain ferric iron.

The current metamorphic mineralogy strongly suggests that the rock has lost significant Ca during metamorphic alteration.

3757237

CG2 - 386.7 m (Lead Blocks)

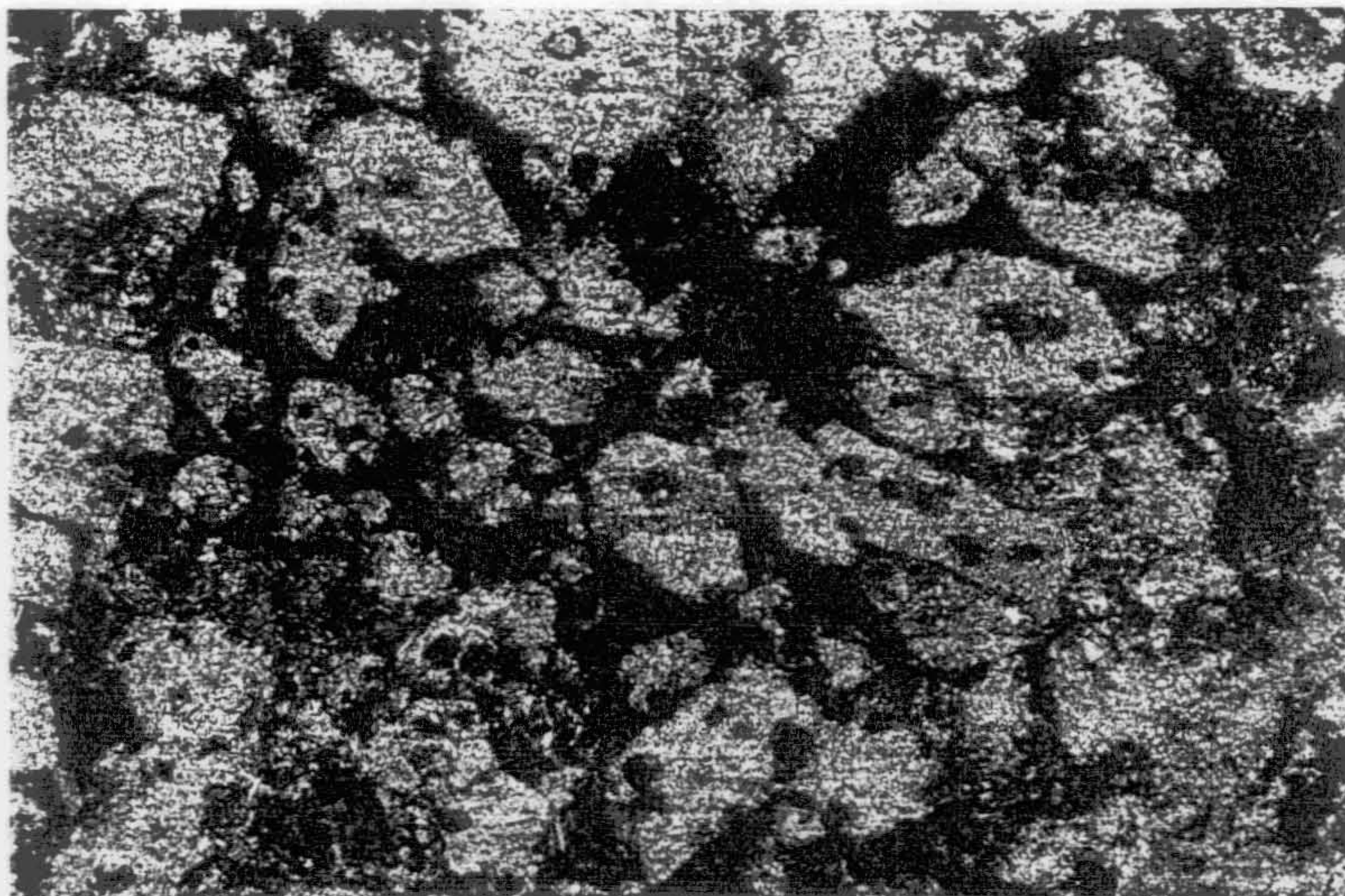
Thin Section

METAMORPHOSED OLIVINE ORTHOCUMULATE

<u>Mineralogy</u>	<u>mode %</u>
Talc	50
Carbonate	30
Chlorite	15
Quartz	3
Opaque	2

Well-preserved igneous texture in scattered patches making up 70% of the rock. In these patches talc pseudomorphs well separated grains up to 1 mm across. Grain shapes are variable from somewhat rounded to equant to tabular to doubly terminated crystals. The grains certainly appear to have been olivine and texturally they were cumulus grains. Between olivine pseudomorphs the matrix consists of well crystallised carbonate, chlorite and minor quartz and opaque and no intercumulus igneous texture is preserved. The opaque is probably chromite as grains are equant. Quartz is entirely metamorphic in origin.

The igneous rock probably contained fine-grained clinopyroxene, chromite and maybe other minor phases that were intercumulus to well formed cumulus olivine grains.



Sample 3757237. Very fine-grained talc and minor carbonate pseudomorph cumulus olivine grains. The matrix is composed of chlorite, carbonate and minor opaque. FOV is 2.64 mm.

3757238

CG2 - 408.5 m (Lead Blocks)

Thin Section

METASOMATISED DOLERITE

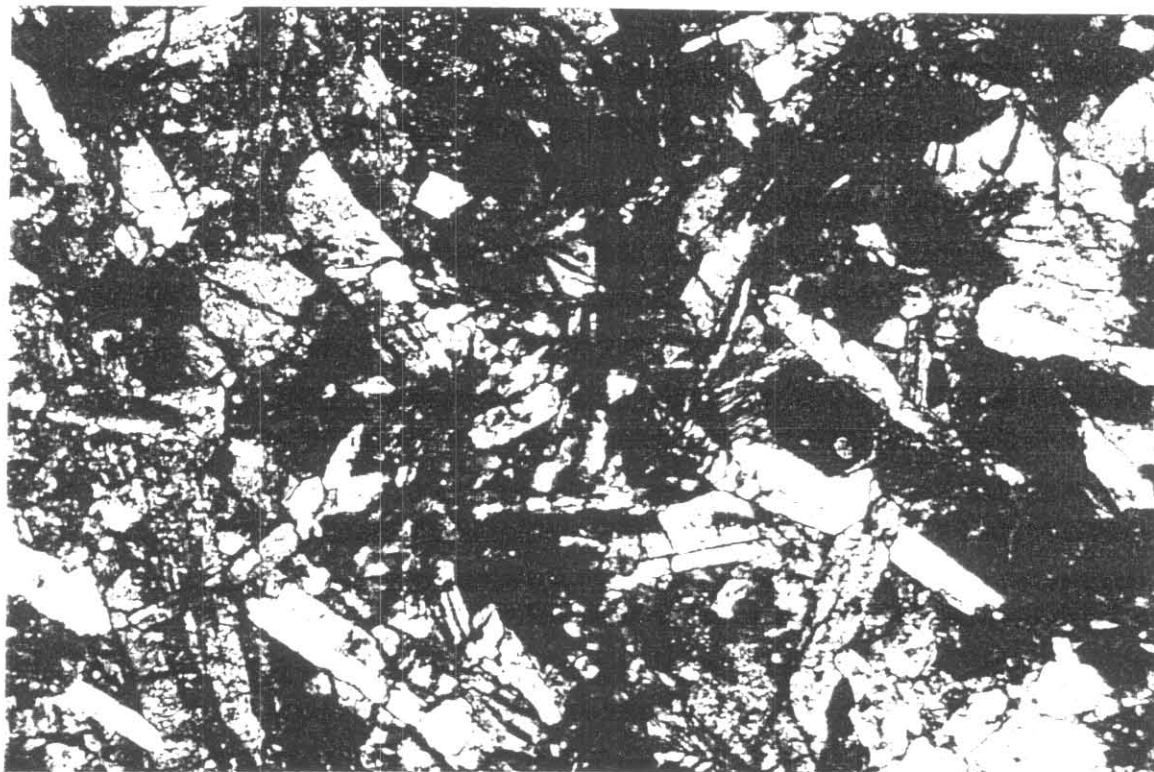
<u>Mineralogy</u>	<u>mode %</u>
Plagioclase	45
Chlorite	35
Carbonate	12
Quartz	5
Opaque	3

Well-preserved, medium-grained doleritic texture of interlocking plagioclase laths up to 2 mm long in a matrix of well-crystallised chlorite, carbonate and minor quartz. All interlath igneous texture has been destroyed by metamorphic alteration and recrystallisation. Opaques are euhedral and appear to be partly altered igneous ilmenite.

The very chlorite-rich nature of the metamorphic assemblage for such a rock strongly suggests that there has been significant loss of Ca during alteration.



Sample 3757238. Well preserved igneous doleritic texture with interlocking plagioclase laths and minor opaque. Note there is no preserved igneous texture in interlath areas. Plane light. FOV is 2.64 mm.



Sample 3757238. Same field of view as above with crossed nicols. The interlath areas are composed of well crystallised chlorite. FOV is 2.64 mm.

PETROGRAPHIC AND GEOCHEMICAL INTERIM REPORT ON
MAFIC INTRUSIVE ROCKS FROM CRAE's CUNI PROSPECT, W
TASMANIA

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BACKGROUND

Following a comprehensive review of literature about the Cuni mafic intrusive-hosted Cu-Ni sulphide prospect close to Melba Flats in western Tasmania, and subsequent drilling, CRAE geologist Theo Aravanis discussed with me the possibility of my doing more detailed investigations of the affinities of the mafic rocks at Cuni, leading eventually to an Honours project for one of my 1995 BSc (Hons) students. For this preliminary study, Theo provided me with 25 thin sections prepared for, and described by WA-based petrologist Martin Gole, plus six new full wholerock analyses of representative samples of unmineralized rock from Cuni.

EXECUTIVE SUMMARY

The mafic intrusive host rocks to the Cuni sulphide mineralization are hornblende dolerites and hornblende microgabbros, in which the abundant, often massive sulphides are clearly epigenetic or remobilized. Analyzed samples are tholeiitic, with almost flat to weakly LREE-enriched REE patterns; the common late stage brown to green pleochroic hornblende, in part replacing augite, suggests that these magmas were quite hydrous. Correlations with the medium- to high-K and shoshonitic Mount Read Volcanics magmatism can be confidently ruled out. Similarly, the Cuni mafics crystallized from higher-Ti magmas than those that produced the Serpentine Hill and related ophiolitic complexes nearby Cuni in W Tasmania.

It is suggested that the most likely correlation of the Cuni mafic intrusives is with the mafic rocks of the Henty Dyke Swarm and the Henty Fault Wedge. These magmas were produced late in the history of Mount Read Volcanics magmatic event, triggered by strong extension and subsequent tapping of the ascending, convecting upper mantle asthenosphere. It is suggested that the common gabbroic intrusives in the Dundas-Colebrook Hill-Ring River-Melba Flats region are all associated with this episode of extension-related tholeiitic magmatism. If this diagnosis is correct, the coarse volcanoclastics in the host sequence of the Cuni intrusives should contain abundant Mount Read Volcanics detritus (i.e. typical of Dundas - Huskisson Group sediments).

This preliminary study focussed only briefly on the Cuni mineralization. It is noted that the abundant Ni sulphides at Cuni may derive ultimately from late magmatic fluids associated with these hydrous mafic intrusives scavenging Ni from adjacent and nearby serpentinites of the Serpentine Hill ophiolitic slice. Sulphur isotope studies should be able to constrain the source of the S in the Cuni mineralization. An interesting and possibly significant occurrence is the presence of disseminated graphite in a number of samples.

PETROGRAPHIC SUMMARY and AFFINITIES of CUNI ROCKS

TABLE 1: Wholerock compositions of CUNI and LEAD BLOCKS mafic intrusive rocks recalculated volatile free.

	Eastern	Eastern	Western	Western	Lead Blocks	
SAMPLE	3757233	3757235	3757234	3757236	3757237	3757238
SiO ₂	46.6	46.7	49.4	50.4	43.9	46.8
TiO ₂	0.89	0.93	1.07	1.14	0.55	0.96
Al ₂ O ₃	16.6	16.2	16.0	19.7	7.86	17.9
Fe ₂ O ₃	14.8	15.5	11.7	12.5	14.8	13.7
MnO	0.45	0.30	0.18	0.19	0.20	0.71
MgO	13.6	13.4	8.53	9.13	22.0	12.2
CaO	3.29	2.76	7.76	0.65	9.60	3.5
Na ₂ O	2.20	3.37	3.49	3.77	0.12	2.30
K ₂ O	1.50	0.21	1.16	2.02	BDL	1.47
P ₂ O ₅	0.04	0.09	0.11	0.12	0.05	0.08
Zr	38	59	81	102	32	50
Sr	160	150	402	186	127	156
Ba	485	117	471	798	12	619
Rb	48	10	41	80	2	81

Samples 3757233 and 3757235 are from the Cuni Eastern Gabbroic Unit, and were drilled in Holes MF02 and MF05 respectively. They are petrographically very similar hornblende dolerites or hornblende microgabbros, in which strongly pleochroic green hornblende was a significant primary phase, possibly crystallizing late in the history of this body as late magmatic fluids reacted with earlier-crystallized augite. However plenty of fresh augite remains in these dolerites, both of which show low greenschist facies metamorphic assemblages characterized by pale green actinolite fringes on augite and hornblende, plus actinolite needles growing in chlorite. Other metamorphic minerals include albite, chlorite, epidote, quartz, leucoxene, calcite and minor sulphides.

These two samples of the Eastern Gabbroic Unit have very similar compositions (see Table 1 above), with 13.4-13.6% MgO and 0.89-0.93% TiO₂. The slightly higher Fe, Ti, Zr and P in 3757235 suggests that it is from a slightly more fractionated (higher?) section of this intrusive body

than sample 3757233. Both samples have suffered significant Ca loss (CaO would certainly be expected to be >10% in rocks composed of calcic plagioclase, augite and hornblende), and variable K metasomatism, with 233 being more sericite-rich than 235. Their Ti/Zr values (140 and 94) are high, and typical of subalkaline magmas, and they plot along a general tholeiitic fractionation trend of increasing TiO_2 with increasing fractionation on the TiO_2 -MgO diagram (Fig. 1a).

Dolerites 3757234 and 3757236 are from the Cuni Western Gabbroic Unit in holes MF02 and MF05 respectively. These dolerites are petrographically very similar to the Eastern Gabbroic Unit, although 236 is more strongly chlorite- and sericite-altered than any of the other three. This is reflected in its higher Al_2O_3 and K_2O , although the higher Al_2O_3 may simply reflect more primary plagioclase in this dolerite, thus more susceptibility to sericite alteration. The Western Gabbroic Unit samples are more evolved (8.5-9.1% MgO compared with 13.4-13.6% MgO), with slightly higher TiO_2 and Zr contents, and lower Ti/Zr values (67-79) than the Eastern Gabbroic Unit.

The samples from Lead Blocks include a strange olivine-accumulative picritic lava or fine-grained picritic doleritic intrusive (3757237) that has suffered intense talc-chlorite alteration, reflected in the high (13.8%) loss on ignition. However, this sample plots directly on the high-MgO extension of the other Cuni dolerites on the MgO- TiO_2 and Al_2O_3 - Fe_2O_3 diagrams (Fig. 1a, b) and also on the TiO_2 - and P_2O_5 - vs Zr plots in Figure 2. In addition, it has a REE pattern (see later) identical in shape to the other Lead Blocks sample (3757238) and also to CUNI Eastern Gabbroic Unit sample 3757233 (Fig. 2c). These observations suggest that these rocks are broadly comagmatic. The olivine-rich picritic dolerite may represent the basal part of an intrusive unit in which liquidus olivine accumulated via crystal settling, prior to the remainder of the intrusive unit cooling and crystalline a gabbroic (doleritic) assemblage in situ.

The two grab samples from '30 km N of Cuni', samples 3911734 and 3911736 are quite different from each other. Sample 734 is an orthopyroxene adcumulate identical to those that make up a significant proportion of the cumulate sections of the Serpentine Hill and Heazelwood Complexes. This sample could not be derived via any fractionation mechanism from the Cuni-type dolerites and gabbros, and I suggest it is a

fault slice of the ophiolitic cumulates rather than a dyke. I would like to know more about the occurrence of this sample. In contrast, 736 is a moderately evolved greenschist facies gabbro little different from the better preserved Cuni dolerites, and possibly related to them. It is however, also very similar to the isotropic gabbros that occur below dolerites and lavas in the Serpentine Hill, Heazelwood and McIvor Hill slices of the ophiolite complexes. Unfortunately no comprehensive geochemical data are available for this sample, so it is impossible to test this alternative.

REE patterns of the Cuni dolerites are given in Figure 3a. The Western Gabbroic Unit rocks are both LREE-enriched, with sample 36 being significantly more LREE-enriched compared to the other Cuni dolerites. The Eastern Gabbroic Unit dolerites have contrasting patterns; 33 shows an unusual trough between La and Eu, which I doubt to be a primary feature. Sample 35 however, shows a pattern essentially parallel to the less LREE-enriched Western Gabbroic Unit sample 34. Without more detailed and comprehensive data, it is difficult to ascertain whether the Eastern and Western Gabbroic Units are comagmatic. On the data available, I would judge that if they are not comagmatic, they are derived from very similar parental magmas.

The REE patterns of the two Lead Blocks samples are compared with the Cuni patterns in Figure 3b. Key points to note are that both the former show the same unusual troughs in the REE patterns between La and Sm, as has already been mentioned for Cuni dolerite 33. The slopes of HREE patterns for all six samples are identical, and it is reasonable to conclude that all six samples are derived from very similar tholeiitic parent magmas. The variable slopes and shapes of the LREE segments of the patterns may be due to dilution of LREE contents by variable augite, olivine (38) or FeTi oxide accumulation in these rocks.

AFFINITIES OF THE CUNI MAFIC INTRUSIVES

There is little regional geological data available to constrain more tightly the geological setting and correlations of the Cuni mafic intrusives. Unfortunately, I have no thin sections of the volcanoclastic sandstones that occur in the sequence intruded by the Cuni dolerites, but a correlation with Dundas Group sedimentary rocks seems reasonable. This is discussed further on, and possible correlations could easily be tested with one or two carefully-chosen thin sections.

Broadly speaking, the Cuni mafic intrusives could be linked to any of four episodes of mafic igneous activity of Late Proterozoic or Cambrian age in western Tasmania. These include:

1: Crimson Creek Formation-correlated rift tholeiitic basalts. Large sills correlated to this episode of mafic magmatism are known at nearby Renison Bell, although their compositional features are not well known. The few analyses I have seen are higher TiO_2 than any of the Cuni rocks, as might be expected from comparison with the dominant Crimson Creek Formation-correlated basalts in Western Tasmania. However, small to large intrusive bodies of gabbro intrude rocks mapped as Crimson Creek Formation in many areas west of Renison, including along the Ring River, John Lynch Creek, and elsewhere in this region. Without more detailed study, and access to samples from these occurrences, it is difficult to make informed judgement on their correlations and significance.

2: Low-Ti and boninitic magmatism that dominates the so-called 'mafic-ultramafic complexes' or 'ophiolites', best represented by the occurrences at Heazelwood, Serpentine Hill, and McIvor Hill. These ophiolitic lavas and their intrusive complements are notably low-Ti (usually $<0.6\%$ TiO_2 at $>6\%$ MgO), and have either strongly LREE-depleted REE patterns (low-Ti basalts) or saucer-shaped patterns (boninites). Petrographically, the Cuni samples are far removed from boninitic rocks. Hornblende gabbros and hornblende dolerites do occur within the ophiolitic complexes, but their strongly LREE-depleted REE patterns and their very low TiO_2 contents preclude any correlation of the Cuni intrusives with the ophiolitic magmatism. Notably however, Brown (1987) does record rather higher TiO_2 gabbroic dykes cutting across the Serpentine Hill and associated mafic-ultramafic sequences, and several of the analyses he gives are very similar to the Cuni samples in terms of major elements and Zr contents (REE are unavailable).

3: Mount Read Volcanics. Mafic lavas dominate parts of the upper section of the Mount Read Volcanics (e.g. Hellyer basalt, Lynchford basalt). These lavas were referred to as Suite III of the Mount Read Volcanics by Crawford et al. (1992), who showed them to be medium- to high-K and shoshonitic calc-alkaline lavas. Many petrographic and trace element features of Suite III mafic lavas, including their low Ti/Zr (<50), and strong LREE-enrichment, all rule against the Cuni mafic intrusives being correlates of the basaltic Mount Read Volcanics. Of interest though is

Brown's (1987) record of gabbroic dykes intruding Mount Read Volcanics in the SE corner of the Zeehan quadrangle.

3: Henty Dyke Swarm and Henty Fault Wedge. Tholeiitic lavas and dykes intrude the Central Volcanic Complex of the Mount Read Volcanics, and dominate the southwestern part of the Henty Fault Wedge (between the north and south Henty Faults). These have been taken by Crawford and Berry (1992) to represent the last manifestation of post-collisional extension that affected this collision zone. After emplacement of the ophiolites as thrust sheets (allochthons), rebounding of underthrust passive margin crust led to exhumation of the Tyennan Region, and the development of major grabens along at least the western margin of the Tyennan Region. Mount Read Volcanics are post-collisional magmas emplaced in these grabens, and continued extension eventually tapped the Henty Dyke Swarm - Henty Fault Wedge magmas from the rising asthenosphere.

I believe that the Cuni mafic intrusives, and many of the other gabbros mentioned above intruding Crimson Creek Formation, the ultramafic-mafic complexes, and intruding the likely Dundas Group correlates, are probably best correlated with this post-collisional episode of extensional mafic magmatism. Further support for this conclusion is offered below.

Table 2 presents analyses of the more mafic basalts and dolerites of the Henty Dyke Swarm (HDS) and Henty Fault Wedge (HFW). It is important to keep in mind that these dolerites and gabbros are unlikely to represent a liquid line of descent, as they may have preferentially accumulated one or more phases (e.g. FeTi oxides by gravity settling, or plagioclase by flotation). However, they show strong compositional similarities to the Cuni rocks (Fig. 2), falling along similar or coincident fractionation trends for elements plotted against Zr as a fractionation index. One Henty Fault Wedge dolerite plots off the trend, displaced towards plagioclase, reflecting the strong plagioclase accumulation in this rock, and the picritic dolerite from Lead Blocks is clearly displaced, as expected, towards olivine.

A notable feature of the chemical variation diagrams in Figures 1b and 2 is the clear enrichment in Fe_2O_3 of most of the Cuni rocks relative to the main fractionation trend represented by the HFS and HDW rocks, and the Lead Blocks picrite. This may reflect limited (~2.5-5 wt%) accumu-

ation of FeTi oxides in the relatively coarse-grained Cuni dolerites relative to the finer-grained analyzed dolerites and basalts from the HDS and HFW.

In Figure 4, REE patterns for Cuni dolerites 33, 34 and 35 are compared with the most mafic available basalts and dolerites from the Henty Fault Wedge (Fig. 4a) and the Henty Dyke Swarm (Fig. 4b). In Figures 5a and 5b, the Lead Blocks rocks are compared with these same suites. Pronounced similarities exist between the Cuni dolerites (excluding that with the trough-shaped LREE-pattern) and the most mafic rocks from the Henty Dyke Swarm and the Henty Fault Wedge. One sample from the Henty Dyke Swarm does show a slight trough in the LREE segment of the pattern, though this is less pronounced than for the Lead Blocks mafics and Cuni sample 33.

On the basis of available evidence, I believe that the Cuni and Lead Blocks doleritic and gabbroic intrusives are correlates of the Henty Dyke Swarm and Henty Fault Wedge sequences. Many of the doleritic-gabbroic rocks cutting the layered sequences of the ophiolites, and cutting the Crimson Creek Formation, may be better correlated with the HDS-HFS suites than with Crimson Creek Formation rift tholeiitic magmatism. These HDS and HFW suites are rather variable tholeiitic basaltic suites with mainly flattish to weakly LREE-enriched REE patterns that intruded the Dundas Trough-Mt Read Volcanics piles towards the end of the Mount Read Volcanics magmatic episode. They clearly record a late extensional event in the history of this part of the Lachlan Foldbelt, and are probably more widespread than presently recognized.

My limited observations of the mineralization at Cuni suggest that it is entirely epigenetic at present. Sulphides have clearly been introduced in many samples, and remobilized in others. This does not preclude that a few modal percent of original magmatic sulphides have not been scavenged, mobilized, concentrated and precipitated during late magmatic crystallization. The common brown hornblende in the Cuni-Lead Blocks intrusives suggests that these rocks were derived from rather hydrous magmas. It is difficult to judge whether the HDS- and HFW mafic intrusives were similarly hydrous, as most are more basaltic textured and rapidly cooled (thinner cooling units), so that magmatic water was probably lost by degassing before the magmas cooled through the hornblende crystallization range of temperatures.

The abundant Ni sulphides in some of the sections I looked at are unlikely to be scavenged from the typical Cuni dolerites, in which

(excluding 38) augite (Ni-poor) is the major mafic phase, and olivine (relatively Ni-rich) is rare or absent. It may be that late magmatic or metamorphic fluids scavenged Ni from nearby serpentinites of the Serpentine Hill Complex. The presence of graphitic material associated with sulphides in several of the sections is interesting and deserves further examination, especially as regards a potential trigger for sulphide saturation.

Table 2: Wholerock analyses of Cuni, Henty Fault Wedge and Henty Dyke Swarm mafic rocks													
SAMPLE	3757233	3757235	3757234	3757236	3757237	3757238		HFW 126	HFW 207	HFW 206	HDS R8	HDS R14	HDS R195
SiO ₂	46.6	46.7	49.4	50.4	43.9	46.8		51.1	50.7	50.3	49.8	50.8	50.6
TiO ₂	0.89	0.93	1.07	1.14	0.55	0.96		1.39	0.55	1.4	1.02	1.32	0.99
Al ₂ O ₃	16.6	16.2	16	19.7	7.86	17.9		15.1	19	16.2	16.7	15.9	17
Fe ₂ O ₃	14.8	15.5	11.7	12.5	14.8	13.7		11.3	8.14	10.9	10.5	10.1	9.1
MnO	0.45	0.3	0.18	0.19	0.2	0.71		0.18	0.15	0.22	0.19	0.19	0.48
MgO	13.6	13.4	8.53	9.13	22	12.2		8.56	6.79	7.91	11.3	7.47	9.42
CaO	3.29	2.76	7.76	0.65	9.6	3.5		7.72	10.3	8.85	6.84	9.59	7.04
Na ₂ O	2.2	3.37	3.49	3.77	0.12	2.3		3.24	3.51	3.95	4.09	4.16	4.76
K ₂ O	1.5	0.21	1.16	2.02	BDL	1.47		1.11	1.64	0.15	0.1	0.33	0.5
P ₂ O ₅	0.04	0.09	0.11	0.12	0.05	0.08		0.11	0.08	0.09	0.07	0.13	0.07
Zr	38	59	81	102	32	50		95	34	79	61	84	66
Sr	160	150	402	186	127	156		220	423	216	415	255	495
Ba	485	117	471	798	12	619		410	639	115	132	188	960
Rb	48	10	41	80	2	81		34	46	6	3	9	13

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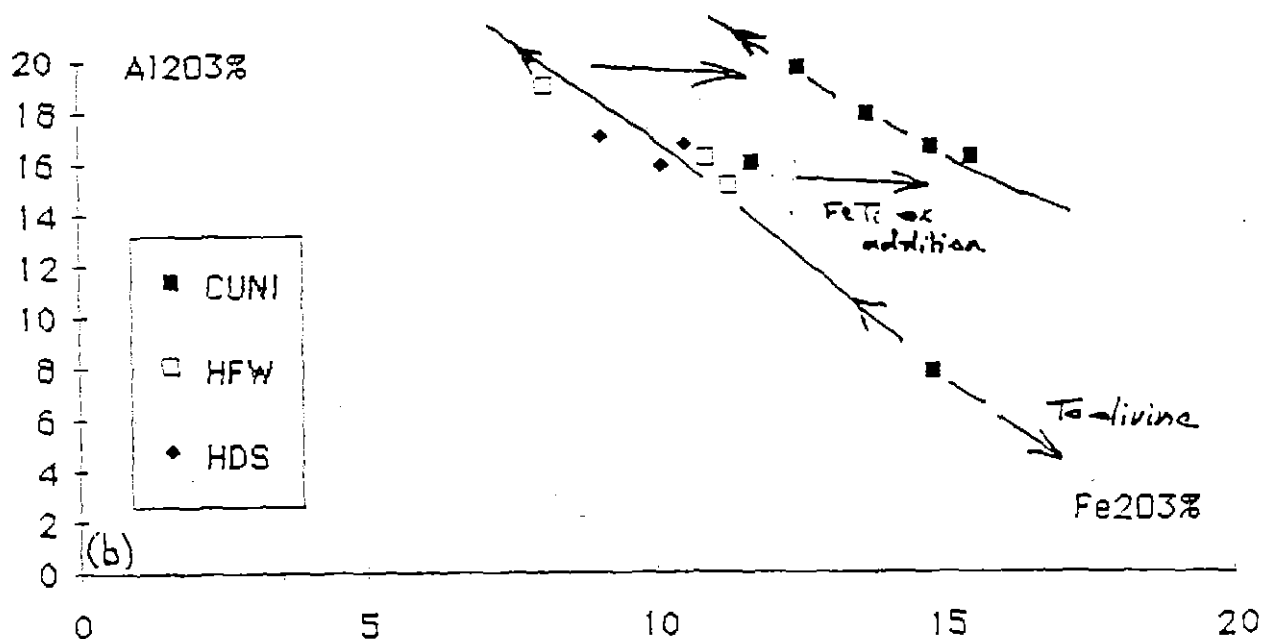
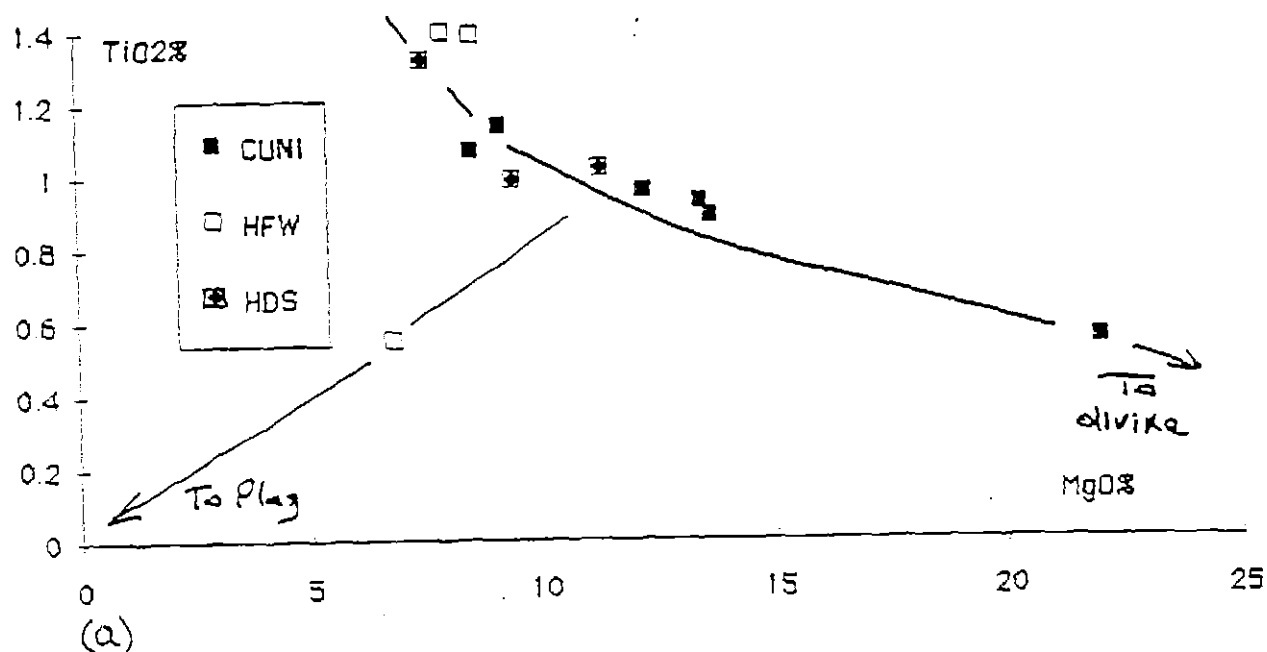


Figure 1: TiO_2 vs MgO (a) and Al_2O_3 vs Fe_2O_3 (b) plots comparing trends for the six Cuni and Lead Blocks mafic intrusives (all filled squares) with three most magnesian mafic intrusives from the Henty Dyke Swarm (diamonds) and the Henty Fault Wedge (open squares). In (a), most of the samples fall along a curved fractionation trend, with most magnesian Lead Blocks picrite falling at the high- MgO end of this trend due to olivine addition, whereas one of the Henty Fault Wedge dolerites is clearly displaced from the fractionation trend via accumulation of plagioclase. In (b), four of the six Cuni-Lead Blocks rocks are displaced towards higher Fe_2O_3 contents from the main fractionation trend, probably due to accumulation of relative dense FeTi oxides in these relatively coarse-grained slowly-cooled samples.

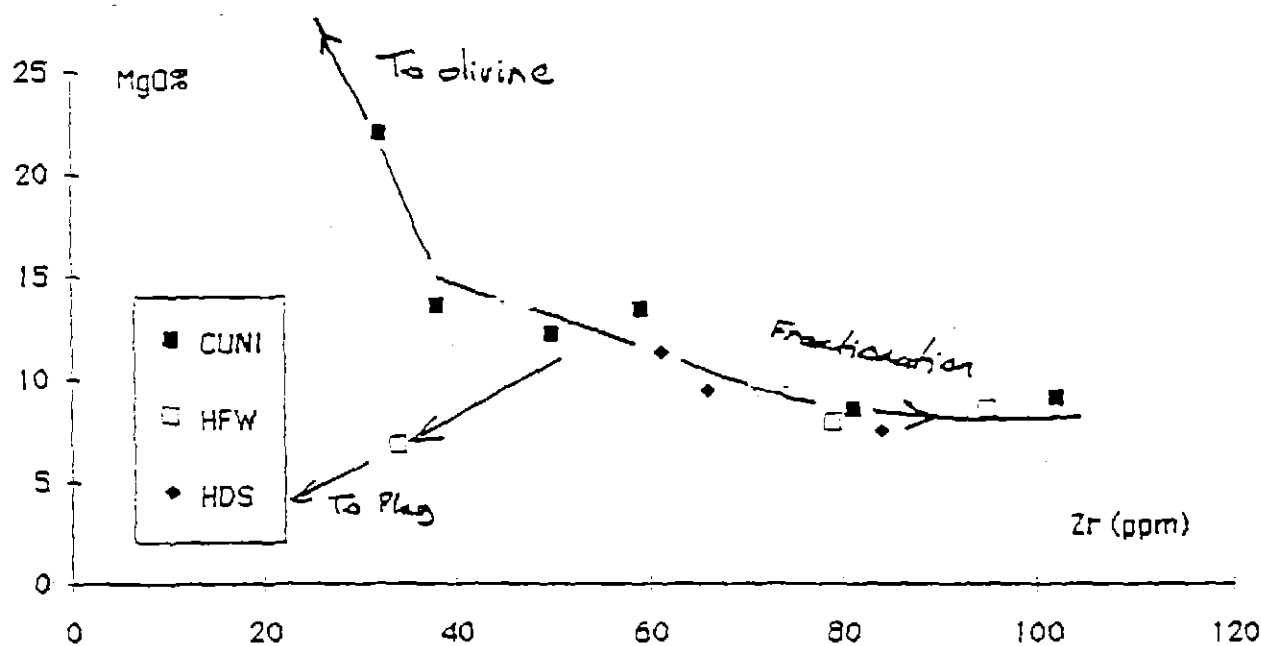
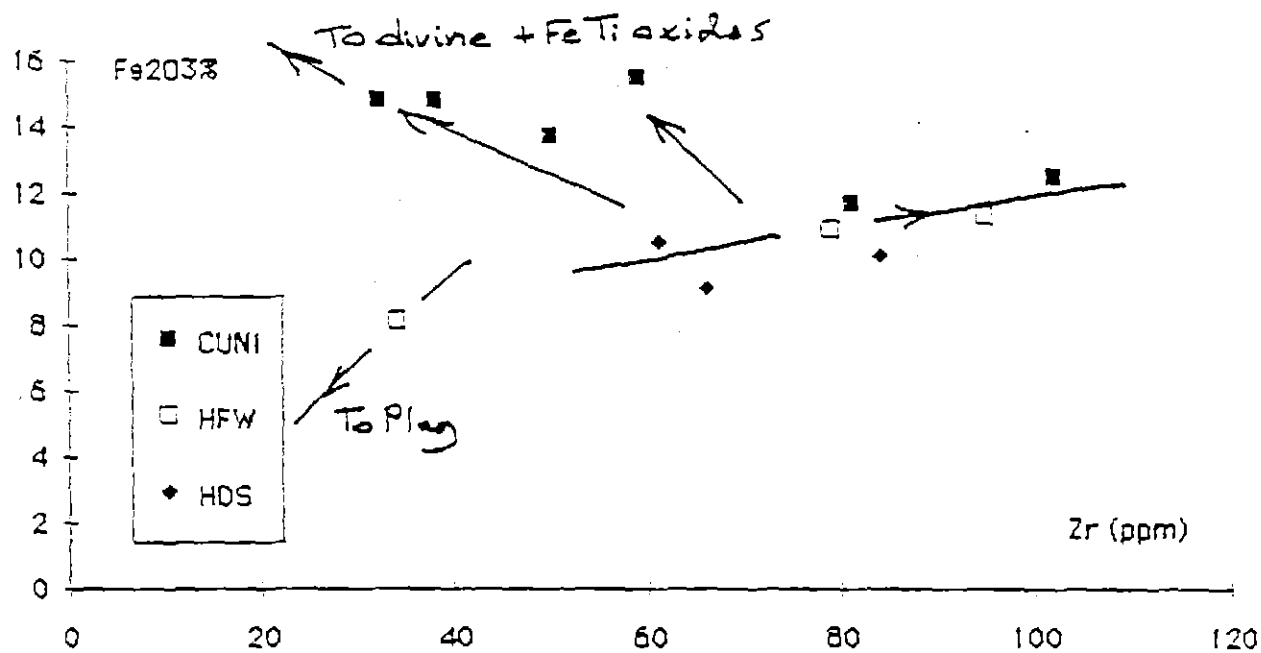
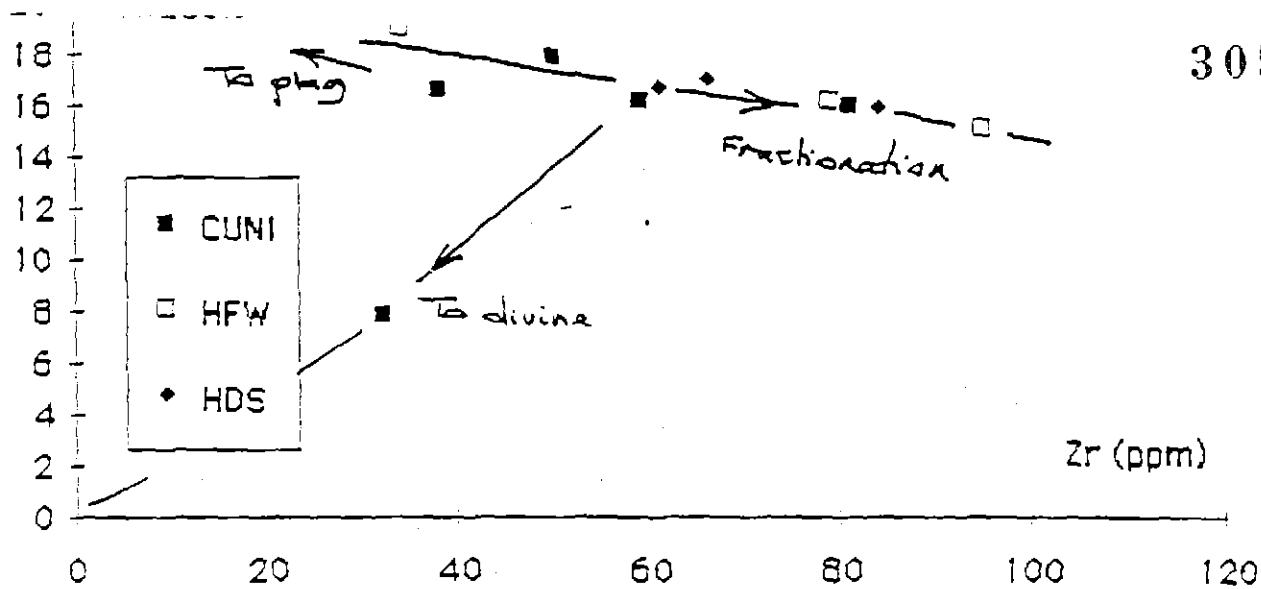


Figure 2.

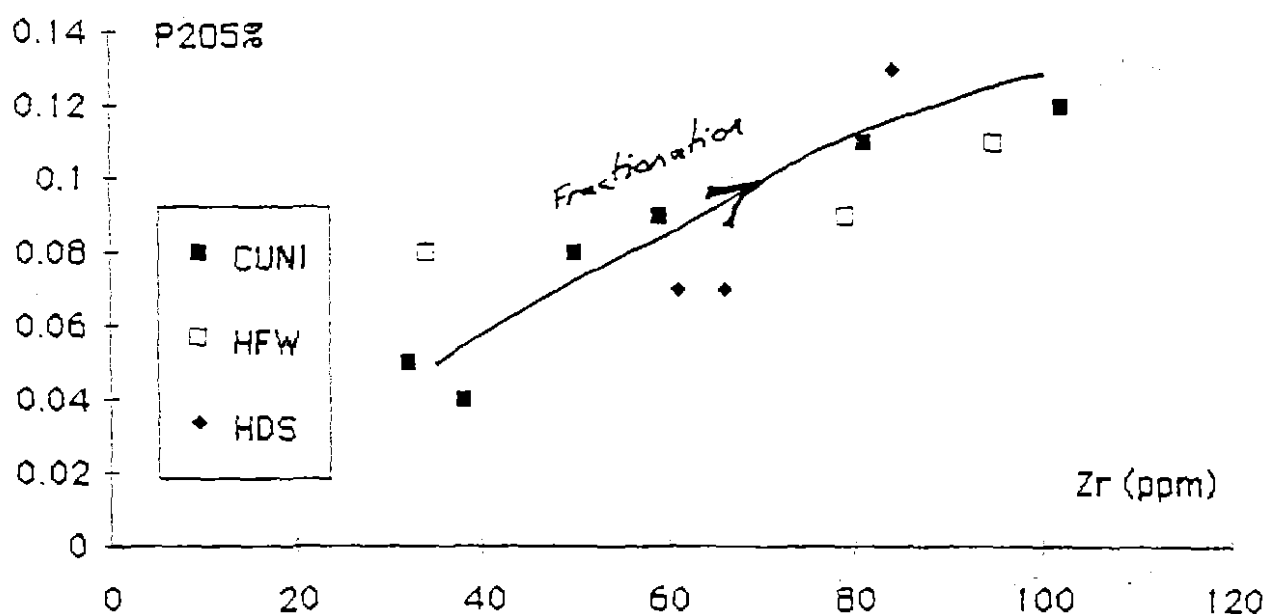
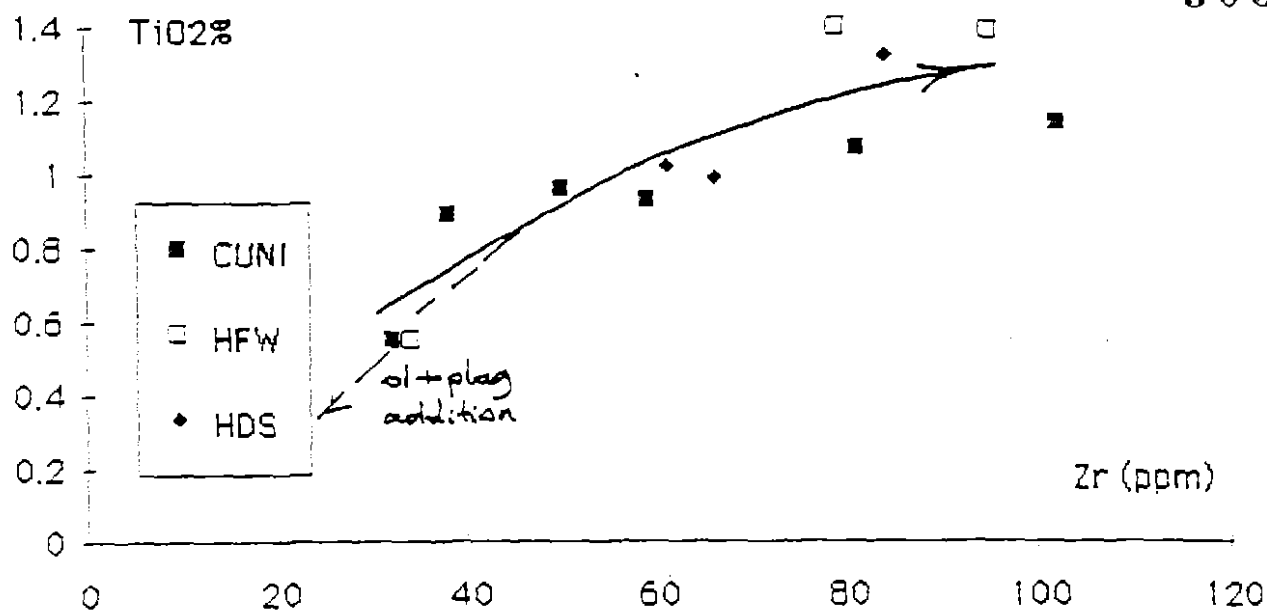


Figure 2 (continued). Plots of oxides vs Zr for the Cuni and Lead Blocks mafic intrusives compared with most mafic samples from the Henty Fault Wedge and Henty Dyke Swarm. Fractionation vectors are indicated.

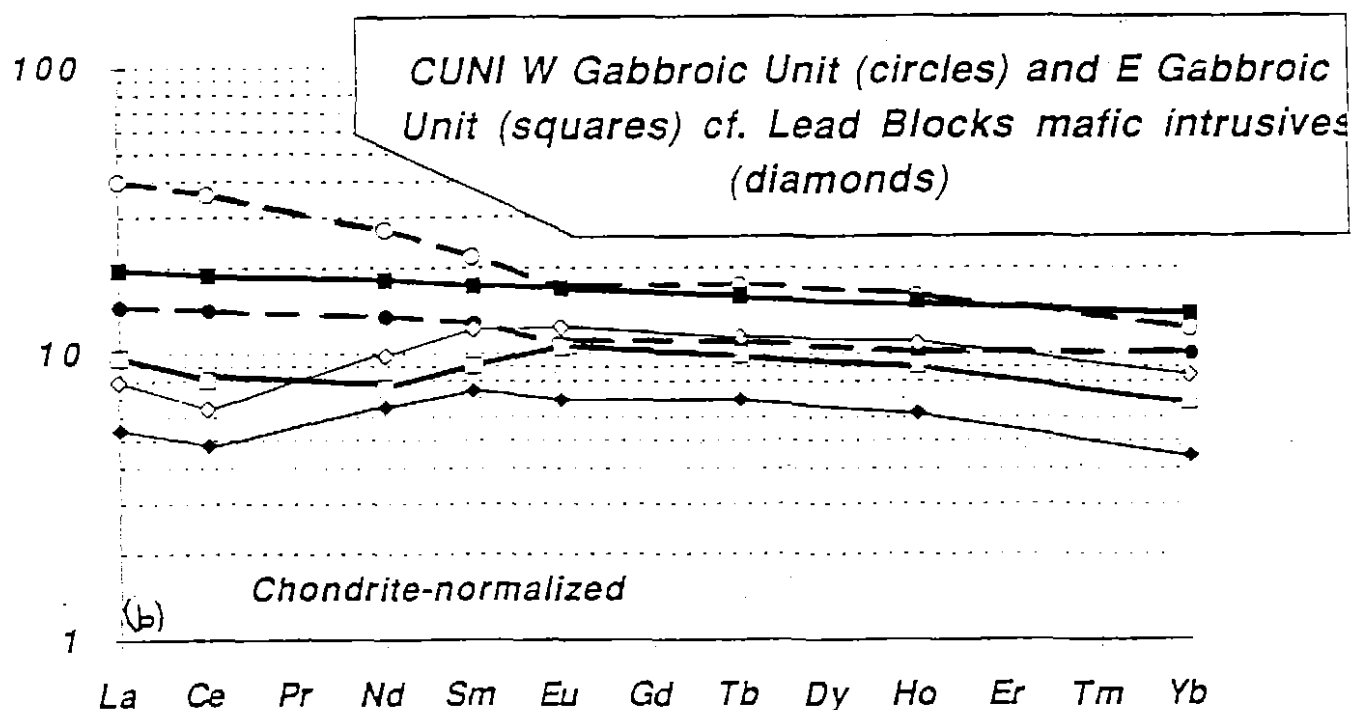
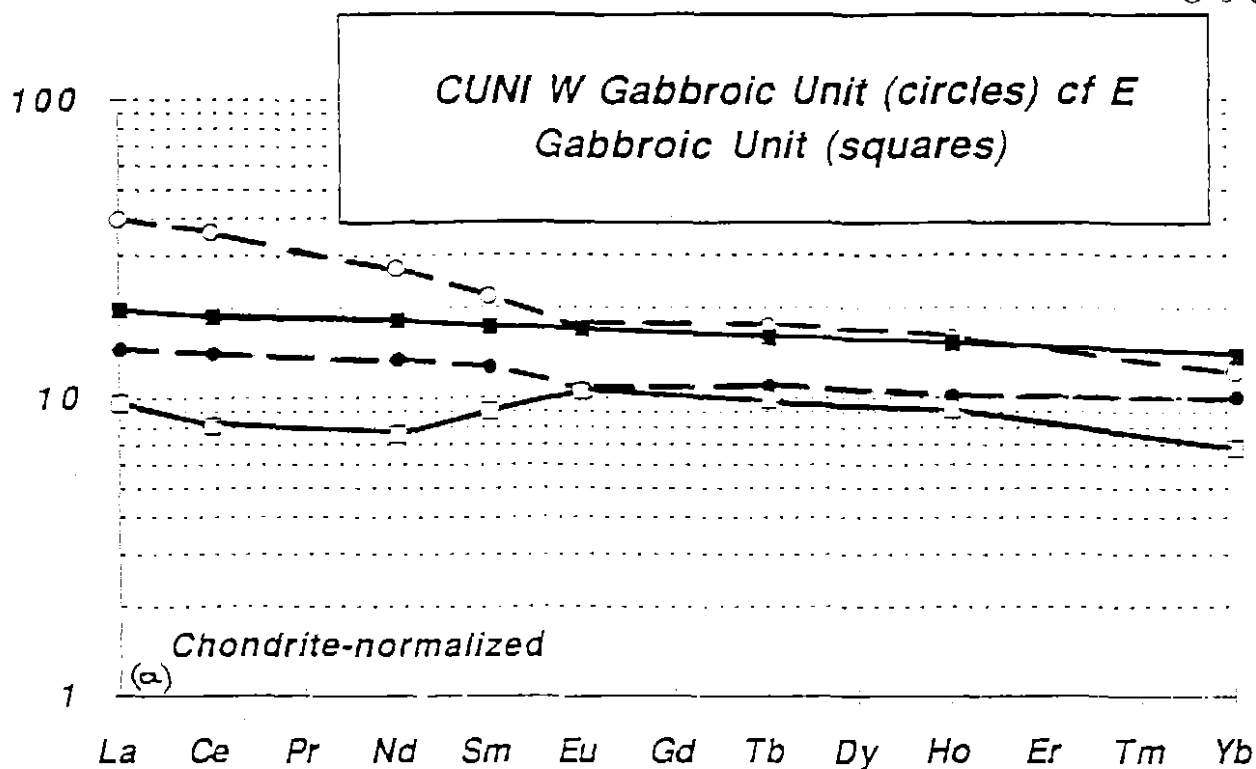


Figure 3: REE patterns for Cuni dolerites (a) and Cuni dolerites compared with Lead Blocks mafic intrusives (b).

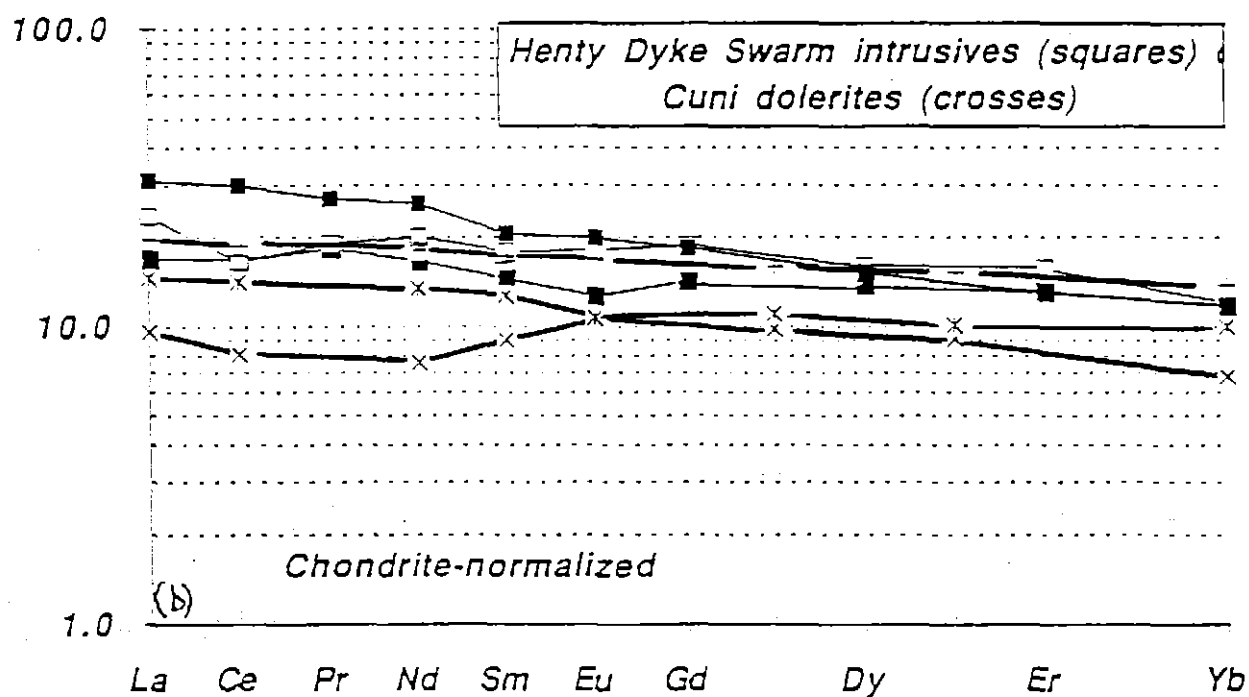
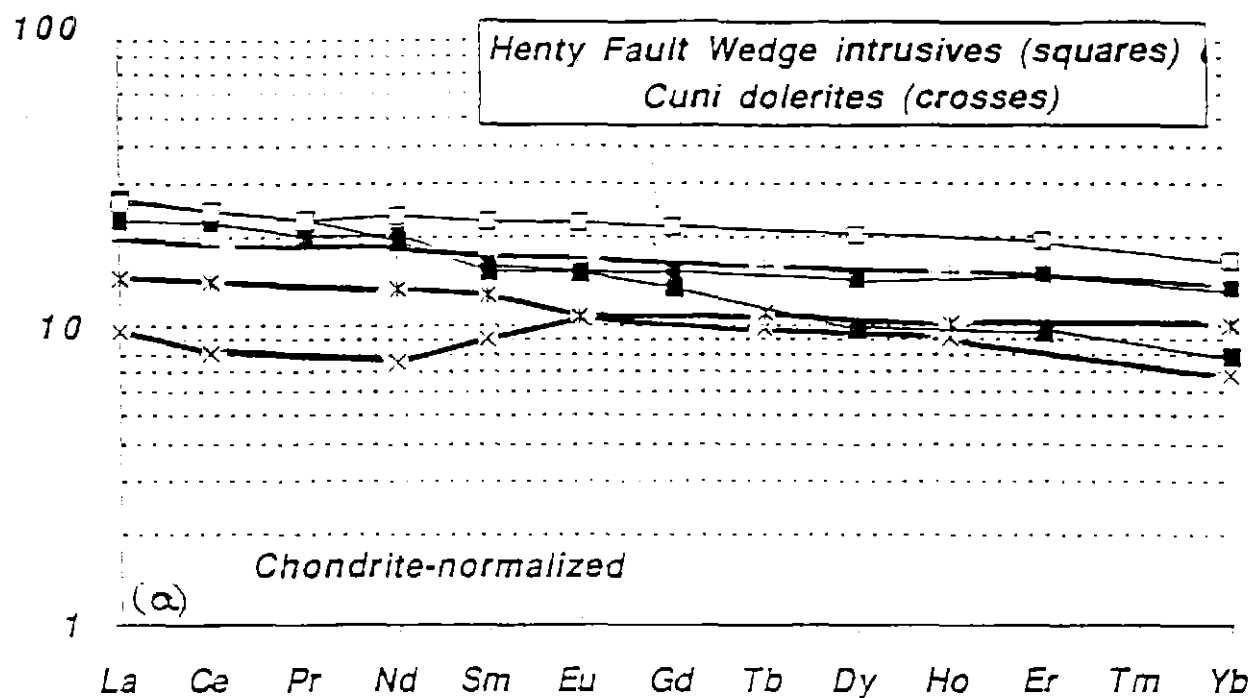


Figure 4: REE patterns for Cuni dolerites compared with mafic intrusives from Henty Fault Wedge (a) and Henty Dyke Swarm (b).

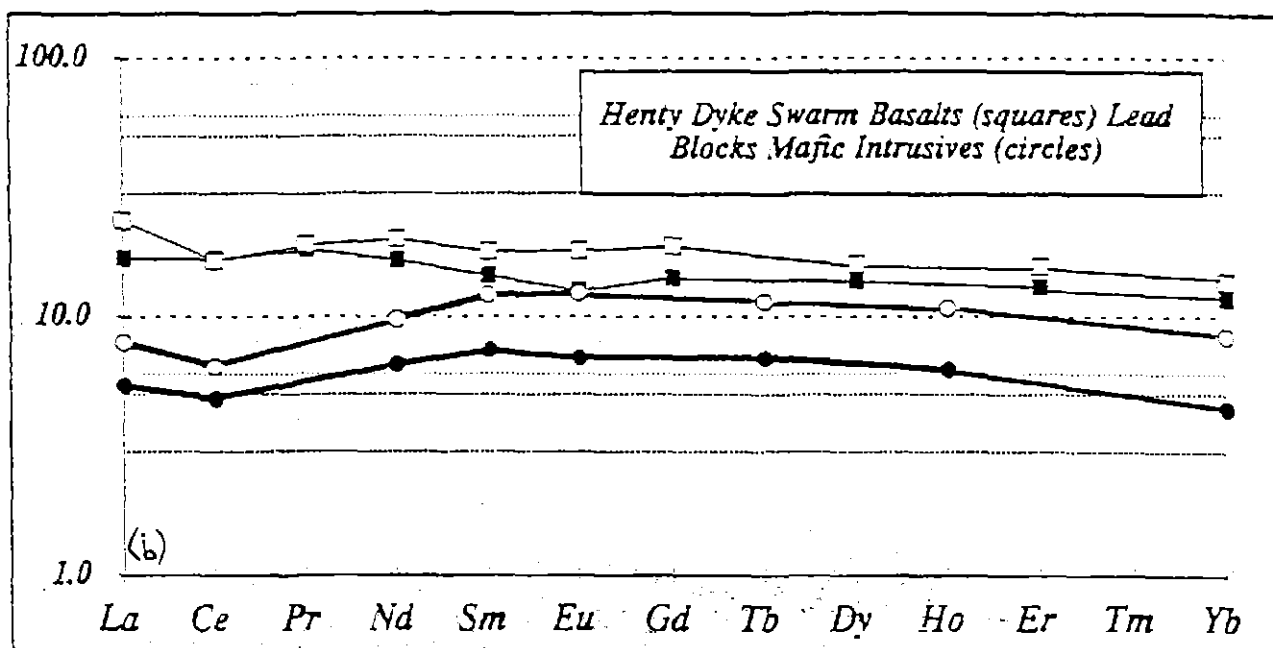
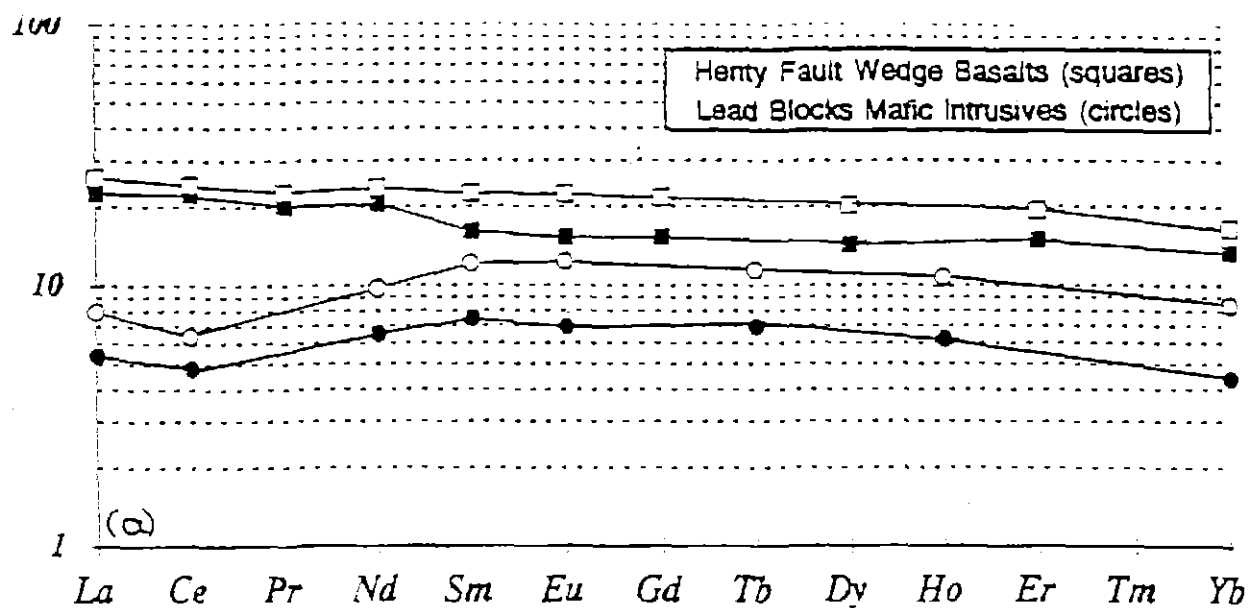


Figure 5: REE patterns for Lead Blocks mafic intrusives compared with mafic intrusives from Henty Fault Wedge (a) and Henty Dyke Swarm (b).

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SAMPLE NUMBER: CRA CUNI DD94MF01 37.00m 3757218

SUMMARY:

This is a massive, weakly banded, burial metamorphosed mudstone with an abnormal amount of very fine-grained epidote in some of the coarser-grained layers in the rock. The bulk of the sample consists of irresolvably fine-grained clay- or sericite-quartz. The sample shows no foliation, but discontinuous spots and lenses of slightly coarser-grained quartzo-feldspathic material are surrounded by amoeboid zones of discolouration and leaching, indicating that fluids moved more easily through, or were concentrated within, the coarser layers. The abundance of epidote in some layers suggests that a component of mafic vitric ash may have been present within the coarser layers. Narrow en echelon quartz veinlets fill brittle fractures cross-cutting the layering.

SAMPLE NUMBER: CRA CUNI DD94MF01 38.50m 3757219

SUMMARY:

Most of this thin section consists of a contact metamorphosed siltstone to mudstone, composed of irresolvably fine-grained sericite-quartz±chlorite±leucoxene. This rock shows significant stylolitic layers due to concentration of insoluble opaques during pressure solution. Contact metamorphic 'spots' of coarser-grained, clearer, more quartz-rich and chlorite-poor material are nucleating in diffuse bands, and many contain cores of fine-grained dusty chlorite. A pinkish band of the same material contains more chlorite along the stylolitic bands, and probably ultra-fine grained hematite patchily disseminated throughout the matrix. This pink band abuts a darker, coarser-grained fine sandstone composed dominantly of angular detrital quartz in which are set abundant well-formed crystals of pale garnet (grossular?) and a few highly olive- to brownish-green pleochroic crystals of tourmaline(?). The garnets are partially altered to chlorite and very fine-grained epidote. This sample was probably an interbedded siltstone-fine sandstone; the appreciable Ca, probably have been present as calcite in the protolith, or may have been introduced from the nearby mafic heat source in fluids that forced contact recrystallization of sedimentary rock. The overall appearance and assemblage is close to a skarn, so perhaps carbonate-rich layers were present in the protolith. I doubt the identification of altered cordierite (see Gole's descriptions) in this rock, as the association grossular-cordierite is unknown (to me), and cordierite requires highly aluminous compositions.

SAMPLE NUMBER: CRA CUNI DD94MF01 38.70m 3757220

SUMMARY:

Another distinctive pink and green banded metasediment similar in many respects to the previous sample. Very fine-grained pinkish sericite-quartz layers up to at least 1cm thick separate bands to almost a cm thick composed of euhedral pale yellowish garnet and chlorite. The banding of these layers is more metamorphic than primary (i.e. not sedimentary), although it may follow original bedding. Other silty layers contain abundant small, mainly partially altered disseminated garnets. Again, this may be a skarn-type assemblage developed adjacent to the contact with the mafic intrusive.

SAMPLE NUMBER: CRA CUNI DD94MF01 47.70m 3757221 Eastern

SUMMARY:

This is a texturally well-preserved, low greenschist facies metamorphosed, coarse-grained doleritic intrusive rock composed of two distinct phases petrographically. The dominant, coarse dolerite consists of a subophitic intergrowth of albitized plagioclase laths, subhedral partly altered augite, minor olivine (also mainly altered), and former FeTi oxides. The augite contains rims of brown to green pleochroic late stage igneous amphiboles, which are themselves overgrown by fringes of pale green metamorphic actinolite. Olivine was much less abundant than augite in this rock, and has mainly altered to low birefringent chlorite-serpentine minerals. Former FeTi oxide grains make up 1-2modal% of the rock and are altered to leucoxenitic material. Disseminated sulphides are more abundant in concentrations of secondary chlorite-quartz, and do not reflect an original distribution, although they may be only remobilized on a very small scale. They include dominant chalcopyrite and pyrite, and Gole records 1modal% of millerite, and trace galena and sphalerite. The second petrographic domain consists of a 1cm or more thick band of hornblende diorite that appears to crosscut the dolerite. It consists of blocky albitized plagioclase, common anhedral quartz and about 5-8 modal% of dispersed euhedral brown igneous hornblende phenocrysts and notable long narrow apatite microphenocrysts. This diorite contains no augite or olivine, and may represent a late-stage residual magma derived from extended crystallization (or squeezing out of residual liquid) of the dolerite; this residual liquid was emplaced into developing cooling cracks in the crystallizing, solidifying dolerite intrusion.

SAMPLE NUMBER: CRA CUNI DD94MF01 48.25m 3757222Eastern

SUMMARY:

This sample is a texturally fairly well-preserved medium- to fine-grained hornblende microgabbro or hornblende dolerite. It is rather similar to the cross-cutting vein in the previous sample, though more mafic, due to an originally greater abundance of primary igneous hornblende. The rock now consists of a doleritic intergrowth of strongly sericite-albite-altered plagioclase laths and subhedral to euhedral, strongly zoned hornblende. The latter has brown higher-T cores and green rims that grade out to actinolite fringes produced during static greenschist facies metamorphism. Interstitial areas have altered to chlorite-quartz-actinolite, and former FeTi oxides are all altered to leucoxenitic aggregates. Disseminated mainly fine-grained pyrite and chalcopyrite occur throughout the rock, and are clearly remobilized (i.e., they do not reflect their original distribution in the sample).

SAMPLE NUMBER: CRA CUNI DD94MF01 48.50m 3757223

SUMMARY:

Description by Gole is adequate, although primary biotite, partly altered to green chlorite, is present in addition to the other things he describes.

SAMPLE NUMBER: CRA CUNI DD94MF01 49.20m 3757224

SUMMARY:

The sulphide part of this slide is essentially identical to the previous sample as described by Gole. Of interest is the adjacent lithology, just below the sulphide layer and separated from it by a few mm width of granoblastic quartz with abundant biotite. This sub-sulphide rock is extremely altered and recrystallized to sericite-silica-chlorite±biotite, but retains an unusual, probably igneous texture defined by small laths of altered plagioclase. My guess is that this layer was also a marginal, fine-grained facies of the hornblende microgabbro described above.

SAMPLE NUMBER: CRA CUNI DD94MF01 49.20m 3757225

SUMMARY:

This is a slightly brecciated and very strongly altered fine-grained intrusive igneous rock, much of which texturally and mineralogically resembles the altered rock immediately beneath the sulphide layer (described above). A relic igneous texture varying from basaltic to fine-grained doleritic is preserved, albeit poorly, in many places, and small altered plagioclase laths and altered, less abundant former mafic crystals (hornblende?) are set in a very messy, fine-grained quartz-sericite-chlorite-leucoxene-actinolite±calcite groundmass. The not uncommon stubby former mafic phenocrysts, now composed of chlorite, were either hornblende or augite. Sudden changes in grain size and texture across quartz- or quartz-chlorite veinlets indicates that the rock has been weakly brecciated and locally disrupted. The key point about the texture of this sample is that it must be from very close to the margin of a cooling unit, as it is virtually a basaltic texture and grain size.

SAMPLE NUMBER: CRA CUNI DD94MF02 85.05m 3757226Western

SUMMARY:

Despite a well-preserved doleritic texture, this rock has been intensely chloritized, and no former mafic phenocrysts are preserved. Albite-sericite-altered plagioclase laths are abundant, and separate subhedral former mafic crystals that are now composed totally of chlorite. Their habit and distribution, however, reminds me very strongly of (former) augite, but I agree with Gole that some of the smaller, more rounded grain may have been olivine. Secondary quartz is common, and quartz and chlorite replace all mesostasis between crystals. Former FeTi oxides are altered to leucoxenitic material. Disseminated sulphides make up less than 1 modal% of this rock, and are mainly pyrite and chalcopyrite. The total absence of Ca-bearing phases in this rock indicate that it has suffered intense hydrothermal alteration, leaching all Ca from the rock, and probably adding Mg to form the abundant chlorite.

SAMPLE NUMBER: CRA CUNI DD94MF02 96.05m 3757227Western

SUMMARY: This strongly mineralized sample retains a doleritic or micro- gabbroic texture in places, and was originally almost finer-grained, but otherwise similar petrographically to the preceding sample. The rock was probably basaltic (doleritic) in composition, but unlike in the previous sample, this rock contains plenty of spots in which relic brown igneous amphibole grains are preserved among totally chloritized former augite, and albite-calcite-altered plagioclase laths. Black very fine-grained graphitic material forms diffuse, discontinuous veins and spots, and occurs along small fractures. Abundant carbonate occurs in the rock, both disseminated throughout, mainly replacing former plagioclase, and as coarse, recrystallized and deformed veins.

SAMPLE NUMBER: CRA CUNI DD94MF02 97.55m 3757228

SUMMARY: The doleritic lithology in this slide was originally, and is now, essentially identical petrographically to the preceding sample. However, in this rock, the gabbro apparently occurs as a fragment in a breccia, together with smaller clasts of siltstone and fine sandstone, as well as common shaley or mudstone clasts. The rock is intensely chlorite-carbonate altered, and contains diffuse to intense patches and concentrations of fine-grained graphite.

SAMPLE NUMBER: CRA CUNI DD94MF05 73.65m 3757231Third?

SUMMARY: This sample is a very strongly foliated and moderately brecciated contact between an intensely chlorite-altered dolerite or gabbro texturally close to the preceding two samples, and a siltstone-mudstone interval. The latter varies almost to fine sandstone in grain size, and consists of a matrix-supported, moderately foliated sericite-chlorite-quartz intergrowth, with dispersed angular clasts of quartz, albite and cherty lithic fragments. Finer-grained shaley layers have occasional layer-parallel segregations of quartz, as well as angular, cross-cutting quartz veinlets in brittle fractures. Minor concentrations of tiny pyrite grains occur preferentially in some coarser layers within the shaly intervals. The gabbro adjacent to the contact consists essentially of broken and disrupted aggregates of albite crystals set in chlorite; minor FeTi oxides are altered to leucoxene. Clearly, there has been high strain absorbed along this contact, which presumably is a significant fault zone. Original competency contrasts between the shale-siltstone and the gabbro probably served to focus strain into the contact, resulting in brittle fracture and foliation development.

SAMPLE NUMBER: CRA CUNI DD94MF05 73.9m 3757232Third?

SUMMARY:

This sample is a chlorite-carbonate-altered dolerite or microgabbro composed of albitized plagioclase laths and totally chlorite-calcite-altered augite, with subordinate leucoxene-altered FeTi oxides. Secondary silica and unusual brown carbonate are abundant, and the sample is cut by common microshear zones in which the rock is finely granulated. An unusual feature of this rock is the abundant black opaque material (graphite?).

SAMPLE NUMBER: CRA CUNI MF02 43.2m Eastern 3757233

SUMMARY:

This sample is a texturally quite well-preserved subophitic-textured dolerite now metamorphosed to low greenschist facies. The primary mineralogy is still preserved in places, although plagioclase has been albitized, and much of the primary augite and brown igneous amphibole has been altered to pleochroic green actinolite. Not uncommon, irregular-shaped FeTi oxides are at least marginally altered to brownish leucoxene. Other alteration includes common sericitization of albite, fine-grained epidote alteration along fractures in augite, and abundant green chlorite replacing hornblende and mesostasis. The original ratio of hornblende to augite seems to have been well over one, suggesting that this sample is best termed a hornblende dolerite.

SAMPLE NUMBER: CRA CUNI MF02 85.6m Western 3757234

SUMMARY:

This is a low greenschist facies metamorphosed medium-grained gabbro dominated by long tabular to blocky albitized plagioclase crystals to 5mm long, equant to rather elongate fresh augite (often with a late magmatic greenish brown hornblende rim), and common interstitial FeTi oxide. The latter are commonly partially skeletal in form, and have exsolved ilmenite, and then altered to leucoxene. There was definitely no olivine in this rock (Gole records 30 modal% olivine, apparently misidentifying the augite as olivine). Alteration includes sericite in albite, chlorite after interstitial mesostasis, brownish epidote in plagioclase and chlorite, blebby secondary quartz, and spots and occasional veinlets of calcite.

SAMPLE NUMBER: CRA CUNI MF05 40.1m Eastern 3757235

SUMMARY: This is a relatively fine-grained doleritic intrusive rock with a low greenschist facies burial metamorphic assemblage, but occasional grains of fresh augite and brown to green pleochroic hornblende are preserved. The bulk of the rock consists of randomly-orientated prisms and laths of albitized plagioclase, which often contain tiny epidote and chlorite inclusions. Interstitial, more anhedral and equidimensional augite is either fresh, or altered to chlorite and pale green actinolite. Coarser-grained spots of pleochroic hornblende with actinolite fringes are also present. All FeTi oxides are altered to messy brown leucoxene. Minor amounts of secondary quartz, epidote and calcite are distributed through interstitial areas. This was a hornblende dolerite.

SAMPLE NUMBER: CRA CUNI MF05 57.8m Western 3757236

SUMMARY: This is a strongly hydrothermally altered fine- to medium-grained, almost aphyric dolerite. A few tabular plagioclase phenocrysts are totally replaced by sericite, and the remainder of the rock consists of a subophitic intergrowth of sericitized rather long, narrow plagioclase laths and totally chloritized interstitial mafics. Common small, equant FeTi oxides are altered to leucoxene and chlorite. A few subparallel chlorite-filled microshearzones transect the section. The sample has suffered strong sericite-chlorite alteration compared to the previous three samples, which showed minimal evidence for hydrothermal alteration

SAMPLE NUMBER: CRA Lead Block KS CG2 386.7m 3757237

SUMMARY: This is a strongly hydrothermally-altered ultramafic lava or chilled margin of an intrusive unit. It was originally composed of abundant (to the point of being cumulate) well-formed olivine crystals mainly around 0.2-1mm long that have been totally replaced by fine-grained talc and minor chlorite. Many contain small euhedral magnetite inclusions. The groundmass of the rock, originally likely to have been partly glassy, now consists of a heterogeneous intergrowth of chlorite, talc, blebby secondary quartz, well-formed magnetite grains, a strongly pleochroic layer silicate that may be stilpnomelane, common calcite, and probably some pyrite. This is an unusual olivine-cumulative primitive lava or shallow intrusive that has suffered intense hydrothermal alteration.

SAMPLE NUMBER: CRA CUNI KS CG2 408.5m MF02 3757238

SUMMARY:

This is a medium-grained, greenschist facies metamorphosed dolerite. Blocky plagioclase prisms are altered to albite and sericite, and make up at least 50 modal% of this rock. Interstitial areas were probably originally filled by augite (and hornblende, judging from 33, 36 etc), and are now entirely replaced by chlorite and carbonate, and minor amounts of magnetite. Former FeTi oxides are at least marginally altered to leucoxene. It is possible that some of the chloritized mafics in this rock was originally olivine, although the amount of FeTi oxides suggest that the dolerite was relatively evolved, especially compared with the preceding sample.

SAMPLE NUMBER: CRA Outcrop, U'mafic 3911734 30km from CUNI

SUMMARY:

This is a texturally well-preserved greenschist facies low-Ca pyroxene cumulate with a texture approaching adcumulate. Mainly equant 1-3mm-sized grains of former low-Ca pyroxene (mainly orthopyroxene) and intergrown such that there is little intercumulus material. All former cumulate pyroxene grains are replaced by actinolite and tremolite with common fine-grained magnetite, though many are overprinted by strong talc alteration. Interstitial actinolite occurs in places, and clearly replaces minor intercumulus augite. Occasional large chromite crystals (to 0.4mm across) are present. This is definitely a cumulate from a boninitic magma, and it is essentially identical to common low-Ca pyroxene cumulates in the ophiolitic Serpentine Hill and Heazelwood complexes. It is clearly sampled from part of the ophiolitic allochthon.

SAMPLE NUMBER: CRA Outcrop, U'mafic 3911736 30km from CUNI

SUMMARY:

This is a greenschist facies metamorphosed gabbro, with average grainsize around 3mm long. It consists dominantly of rather long, albitized plagioclase prisms that are variably overprinted by fine-grained sericite, and subordinate but common elongate former augite and hornblende crystals that are replaced by pleochroic green actinolite. A few hornblendes still show brownish cores, and may be primary. Interstitial areas are composed of recrystallized albite, secondary

quartz, chlorite and actinolite, and commonly these areas contain abundant sulphides (pyrite?). Unusual, blebby to skeletal former FeTi oxides have altered to leucoxene, magnetite, epidote and chlorite, and commonly occur within large chlorite patches. This is a hornblende gabbro probably related to the intrusive hornblende dolerites from Cuni, although petrographically it is very similar also to the evolved gabbros from the Melvor Hill and Serpentine Hill slice of the W Tasmanian ophiolite complexes.

SAMPLE NUMBER: CRA Nickel Reward 3911766

SUMMARY:

This is a weathered and highly altered former doleritic intrusive. Although textural details are still evident in places, much of the rock has altered to messy yellowish clays and chloritic material. In best-preserved areas, the plagioclase laths are altered to yellowish clay, and interstitial former mafics are probably altered actinolite and chlorite (after augite?). FeTi oxides are not uncommon, and are altered to leucoxene.

SAMPLE NUMBER: CRA SOUTH CUNI 3911786

SUMMARY:

The protolith of this rock cannot be determined, as it now consists of a strongly mineralized and recrystallized quartz-sulphide-chlorite intergrowth, with no trace of any primary texture. The original rock before brittle deformation and recrystallization consisted of an intergrowth of relatively fine-grained chlorite, quartz and sulphides. This was cut by irregular fractures in which significant coarsening of the grain size has occurred, coupled with an increase in the relative abundance of sulphide. This rock probably began life as a mineralized dolerite that had suffered intense chlorite-quartz-sulphide metasomatism. Sulphides are dominantly chalcopyrite, with a small amount of millerite and pyrite, and traces of sphalerite.

SAMPLE NUMBER: CRA SOUTH CUNI 3911787

SUMMARY:

This is a strongly hydrothermally-altered doleritic intrusive rock that contains patches of massive sulphide. In the better-preserved parts of the rock, plagioclase laths are totally replaced by sericite, with

interstitial areas replaced by secondary quartz and pale chlorite. FeTi oxides are altered to chlorite with rims of magnetite(?). The sulphide occurs as disseminated pyrite, and much larger >1cm-sized patches composed of massive pyrite with minor chalcopyrite and millerite. The sulphides are clearly secondary and remobilized in this rock, rather than being magmatic.

SAMPLE NUMBER: CRA SOUTH CUNI 3911789

SUMMARY:

This is an intensely hydrothermally altered formerly mafic igneous rock. Few traces of the primary texture are preserved apart from some indistinct actinolite-chlorite pseudomorphs after a former mafic phase. Probable former plagioclase has altered to almost microcrystalline messy brown epidote, intergrown with chlorite-riddled quartz and common leucoxene. Sulphides are mainly restricted to chlorite veinlets, and are dominated by chalcopyrite and pyrite. This rock was probably a dolerite similar to many described from N Cuni (above), but it has suffered strong hydrothermal alteration, possibly associated with introduction of the sulphides.

CRAE Exploration Pty Limited GEOCHEMICAL SAMPLE LEDGER: DRILL CORE

Sample no.	DDH	AMG East	AMG West	Depth m	Gabbro
3757233	MF02	366438	5367771	43.4	Eastern
3757234	MF02	366438	5367771	85.6	Western
3757235	MF05	366390	5367450	40.1	Eastern
3757236	MF05	366390	5367450	57.8	Western
3757237	CG2	367090	5367800	386.7	Lead Blocks
3757238	CG2	367090	5367800	408.5	Lead Blocks

ANALABS DPO 77373

ELEMENT	Ba	Rb	Cs	Sr	Zr	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	Na2O	LOI	Total
UNITS	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	%
LDL	10	5	10	5	5	0.05	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.05	0.01	0.01
METHOD	GX401	GX401	GX401	GX401	GX401	OX408	OX408	OX408	OX408	OX408	OX408	OX408	OX408	OX408	OX408	OM615	OX408
	485	48	28	149	35	15.40	43.3	0.83	13.72	0.42	3.06	1.39	12.63	0.043	2.05	6.68	100.00
	445	39	38	380	77	15.10	46.7	1.01	11.10	0.17	7.34	1.10	8.07	0.101	3.30	5.55	100.14
	109	9	26	140	55	15.15	43.6	0.87	14.43	0.28	2.58	0.20	12.47	0.080	3.15	7.08	100.38
	750	75	43	175	96	18.50	47.4	1.07	11.80	0.18	0.61	1.90	8.59	0.115	3.55	5.76	99.80
	10	-5	15	110	28	6.80	38.0	0.48	12.81	0.20	8.31	-0.01	19.1	0.048	0.10	13.84	100.38
	565	74	19	142	46	16.35	42.7	0.88	12.52	0.65	3.20	1.34	11.12	0.068	2.10	9.07	100.28

BECQUEREL LABS DPO 77375

ELEMENT	La	Ce	Nd	Sm	Eu	Tb	Ho	Yb	Lu	Hf	Ta	Th
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LDL	0.10	1.00	2.00	0.05	0.10	0.20	0.20	0.10	0.05	0.20	0.50	0.20
METHOD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3757233	2.83	6.12	4.22	1.62	0.71	0.45	0.62	1.32	0.18	0.50	-0.50	-0.20
3757234	5.85	14.37	10.20	3.13	1.15	0.74	1.05	2.70	0.42	1.78	0.83	1.54
3757235	4.26	10.77	7.45	2.28	0.72	0.50	0.69	1.96	0.29	1.16	-0.50	1.35
3757236	11.78	27.40	15.14	3.94	1.15	0.80	1.09	2.38	0.29	2.32	1.18	2.50
3757237	1.47	4.13	3.37	1.23	0.46	0.29	0.39	0.80	0.10	0.54	-0.50	0.46
3757238	2.28	4.74	5.33	2.12	0.81	0.51	0.72	1.59	0.22	1.13	-0.50	0.55

N E U T R O N A C T I V A T I O N A N A L Y S I S

NEUTRON ACTIVATION ANALYSIS REPORT

Date: 01-11-94

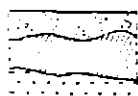
T. ARAVANIS, CRAE PRESTON, DPO 77374
BECQUEREL JOB #996

Page 1 of 1

NOTE: - A NEGATIVE SIGN INDICATES "LESS THAN".

- RESULTS ARE IN PARTS PER MILLION (ppm) UNLESS OTHERWISE INDICATED.

ELEMENT	DL	#3757233	#3757234	#3757235	#3757236	#3757237	#3757238
LANTHANUM	.1	2.83	5.85	4.26	11.78	1.47	2.28
CERIUM	1.0	6.12	14.37	10.77	27.40	4.13	4.74
NEODYMIUM	2.0	4.22	10.20	7.45	15.14	3.37	5.33
SAMARIUM	.05	1.62	3.13	2.28	3.94	1.23	2.12
EUROPIUM	.1	.71	1.15	.72	1.15	.46	.81
TERBIUM	.2	.45	.74	.50	.80	.29	.51
HOLMIUM	.2	.62	1.05	.69	1.09	.39	.72
YTTERBIUM	.1	1.32	2.70	1.96	2.38	.80	1.59
LUTETIUM	.05	.18	.42	.29	.29	.10	.22
HAFNIUM	.2	.50	1.78	1.16	2.32	.54	1.13
TANTALUM	.5	-.50	.83	-.50	1.18	-.50	-.50
THORIUM	.2	-.20	1.54	1.35	2.50	.46	.55



**BECQUEREL
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ANALYTICAL REPORT No. 004005 00411401

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

INVOICE TO:

CRG Exploration Pty Limited
 P.O. Box 8092
 NORTHLAND CENTRE VIC 3072

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20/05/04

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20/05/04

5

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
0759200/050	10 Free : 3P000	Sa, Rb, Cs, Sr, Zr, Hf, Th, U SHOLE 600X/01406

REMARKS

RESULTS
TO

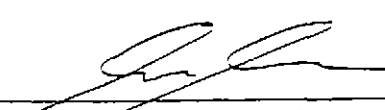
Mr J. HAYWARD
 CRG Exploration Pty Limited
 P.O. Box 8092
 NORTHLAND CENTRE VIC 3072

RESULTS
TO

Mr J. HAYWARD
 CRG Exploration Pty Limited
 P.O. Box 8092
 NORTHLAND CENTRE VIC 3072

RESULTS
TO

CRG Information Systems
 P.O. Box 7709
 MANUKA ACT 2603


 AUTHORISED OFFICER

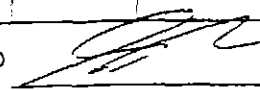
ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10437			10/10/94		77373		1 OF 2	
	SAMPLE No.	Ba	Rb	Cs	Sr	Zr	Al2O3	SiO2	TiO2	Fe2O3	
METHOD		GX401	GX401	GX401	GX401	GX401	OX408	OX408	OX408	OX408	
1	3757233	485	48	28	149	35	18.40	43.30	0.83	13.72	
2	3757234	445	39	38	380	77	15.10	46.70	1.01	11.10	
3	3757235	109	9	26	140	35	15.15	43.60	0.87	14.43	
4	3757236	750	75	43	175	96	18.50	47.40	1.07	11.80	
5	3757237	10	<5	15	110	25	6.80	38.00	0.48	12.81	
6	3757238	565	74	19	142	46	16.35	42.70	0.88	12.52	
7											
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23											
24	DETECTION	10	5	10	5	5	0.05	0.05	0.01	0.01	
25	UNITS	ppm	ppm	ppm	ppm	ppm	%	%	%	%	

Results in ppm unless otherwise specified
- = element not determined

(S = insufficient sample
SNR = sample not received

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ANALYTICAL DATA

SAMPLE PREFIX			REPORT No.			REPORT DATE		CLIENT ORDER No.		PAGE	
			104165.60.10437			10/10/94		77373		2 OF 2	
	SAMPLE No.	MnO	CaO	K2O	MgO	P2O5	Na2O	LOI	Total		
METHOD		OX408	OX408	OX408	OX408	OX408	OX408	OM615	OX408		
1	3757233	0.42	3.06	1.39	12.63	0.043	2.05	6.58	100.00		
2	3757234	0.17	7.34	1.10	8.07	0.101	3.30	5.55	100.14		
3	3757235	0.28	2.58	0.20	12.47	0.080	3.15	7.08	100.38		
4	3757236	0.18	0.61	1.90	8.59	0.115	3.55	5.76	99.30		
5	3757237	0.20	8.31	<0.01	19.10	0.048	0.10	13.84	100.38		
6	3757238	0.65	3.20	1.34	11.12	0.068	2.10	9.07	100.28		
8											
9											
10											
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12											
13											
14											
15											
16											
17											
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23											
24	DETECTION	0.01	0.01	0.01	0.01	0.005	0.05	0.01	0.01		
25	UNITS	%	%	%	%	%	%	%	%		

Results in ppm unless otherwise specified
-- = element not determined

IS = insufficient sample
SNR = sample not received

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