ANNUAL REPORT

EXPLORATION LICENCE 8380

"Ten Mile Creek"

29th March 1997 to 28th March, 1998

Licensee:	Ashton Mining Limited
Operator:	Ashton Mining Limited
Sheet Reference:	1:250,000 Bauhinia Downs (SE53-03)
Submitted to:	Department of Mines and Energy, Darwin
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CR 98/39

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April, 1998
Report Number: 52204

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SUMMARY

During the period 29th March, 1997 to 28th March, 1998, Ashton Mining Limited, on behalf of the Australian Diamond Exploration Joint Venture (ADE JV), carried out an exploration programme over Exploration Licence 8380. This report provides details of work undertaken within the licence during the reporting period.

Outstanding results for the four drill spoil and three stream samples collected in the previous reporting period, became available. Encouraging results were received from the stream samples, with two reporting high numbers of chromite, and the third sample reporting both diamond and chromite. As a result, the ground magnetic survey area, undertaken in the 1996 field season, was extended to the west and to the south to cover the indicator bearing drainage. EM-34 testing was also carried out over the extended area. An additional magnetic target and seven EM-34 targets were selected for further investigation.

Field investigation of these anomalies involved the collection of loam and vegetation samples over selected EM-34 targets, including one previously drilled in 1996. Drill testing of the newly defined magnetic target and two of the EM-34 targets was also completed. Four holes were completed for 279.3 metres.

Reconnaissance stream sampling was also undertaken within the licence area, with six samples collected. These samples were dispatched to Ashton's Perth laboratory for routine microdiamond and indicator mineral analysis. One sample reported positive, containing 14 chromite grains. Follow-up of this result was undertaken, with ten samples collected. Two

samples returned positive results, both reporting chromite.

Exploration expenditure for the reporting period amounted to $ 110,201 against a covenant of $ 45,000.

1.0 INTRODUCTION

This report details exploration activities carried out by Ashton Mining Limited over Exploration Licence 8380 during the period 29th March 1997 to 28th March, 1998.

Ashton Mining is manager of the licence on behalf of the Australian Diamond Exploration Joint Venture (ADEJV). Parties to the ADEJV are Ashton Mining Limited and Aberfoyle Resources Limited.

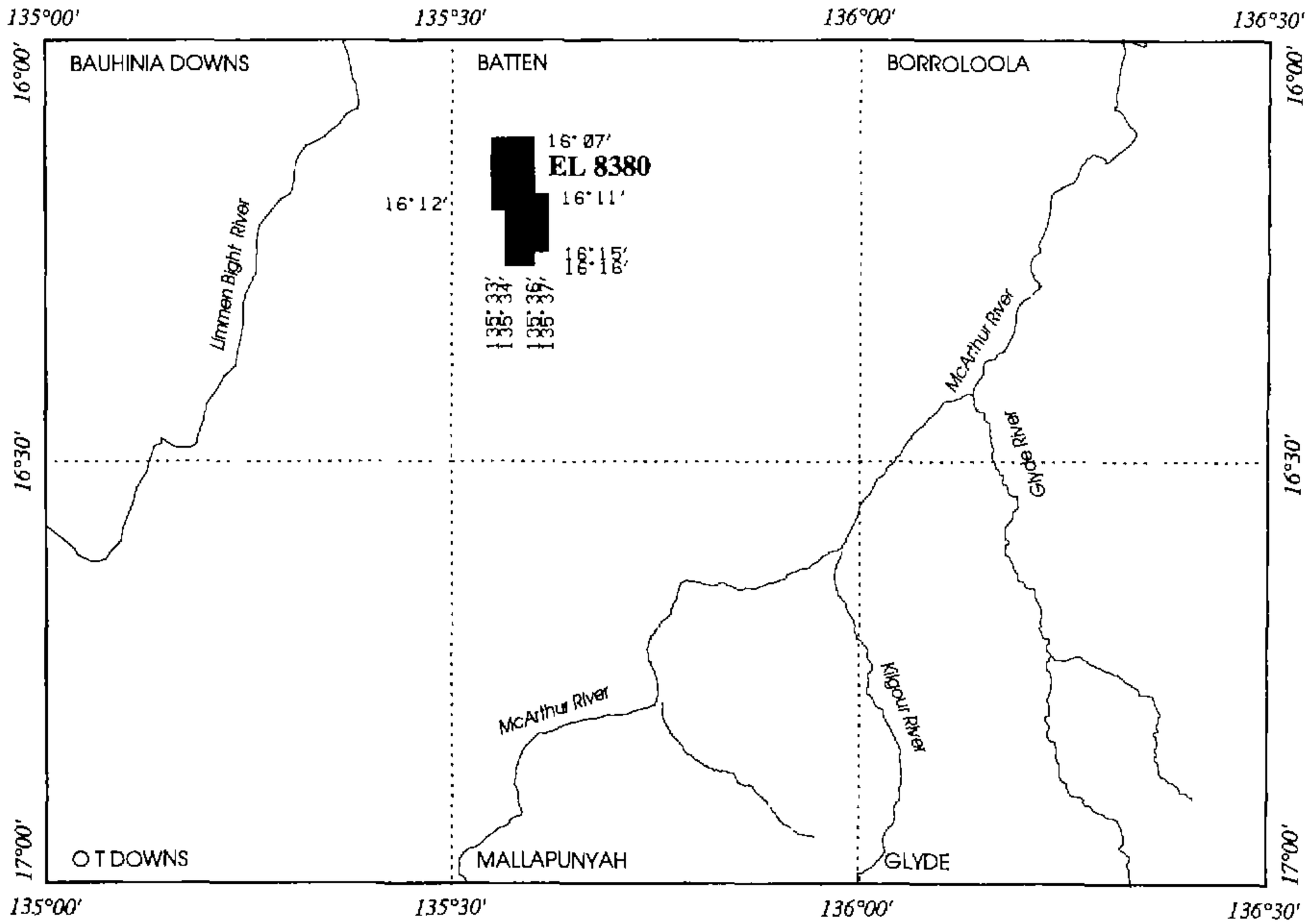
Exploration licence 8380 was granted to Ashton Mining on the 29th March, 1994 for a period of six years. The licence, originally covered an area of 87 blocks, however through statutory reductions, now comprises 27 blocks. A tenement history is provided in Table 1. The tenement is located on the Bauhinia Downs (SE53-03) 1:250,000 map sheet and the Batten 1:100,000 map sheet. A tenement location map is shown in Figure 1.

Table 1
Tenement History

Licence	Blocks 1994	Blocks 1995	Blocks 1996	Blocks 1997	Blocks 1998
EL 8380	87	87	53	27	Reduction Due 14 blocks

In January 1992, an agreement was formed between the ADEJV and BHP Minerals allowing the ADE to explore for diamonds on designated BHP tenements, and for BHP to undertake base metal exploration on selected Ashton tenements located in the Batten region. This joint venture was known as the McArthur River Joint Venture. On the 1st July 1995, the agreement was renegotiated and all existing joint venture tenements became subject to the McArthur River (Metals) Joint Venture.

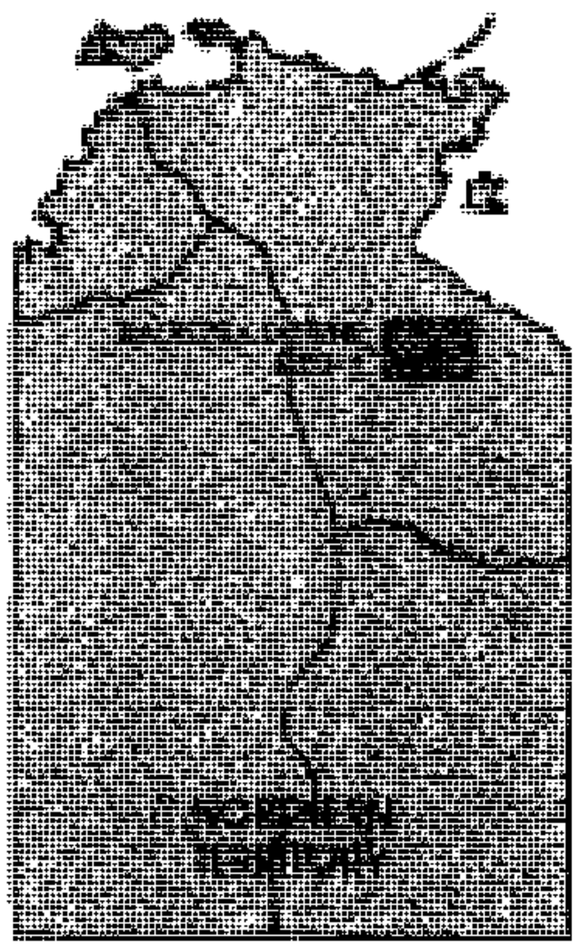
Fri Apr 03 12:26:18 1998



KILOMETRES

0 10 20 30 40 50

1 : 1,000,000



ASHTON MINING LIMITED
A.D.E. JOINT VENTURE

ANNUAL REPORT
EXPLORATION LICENCE 8380

FIGURE 1
LOCATION MAP

APRIL, 1998

d:\drawings\licences\figure_1\8380_f1.dgn

BHP Minerals nominated EL 8380 as a project tenement on the 26th February, 1996. In November of the same year, BHP withdrew from the tenement, having completed their exploration programme. All work undertaken by BHP was reported in the annual report for the period 29th March, 1996 to 28th March, 1997 (report reference: 52083).

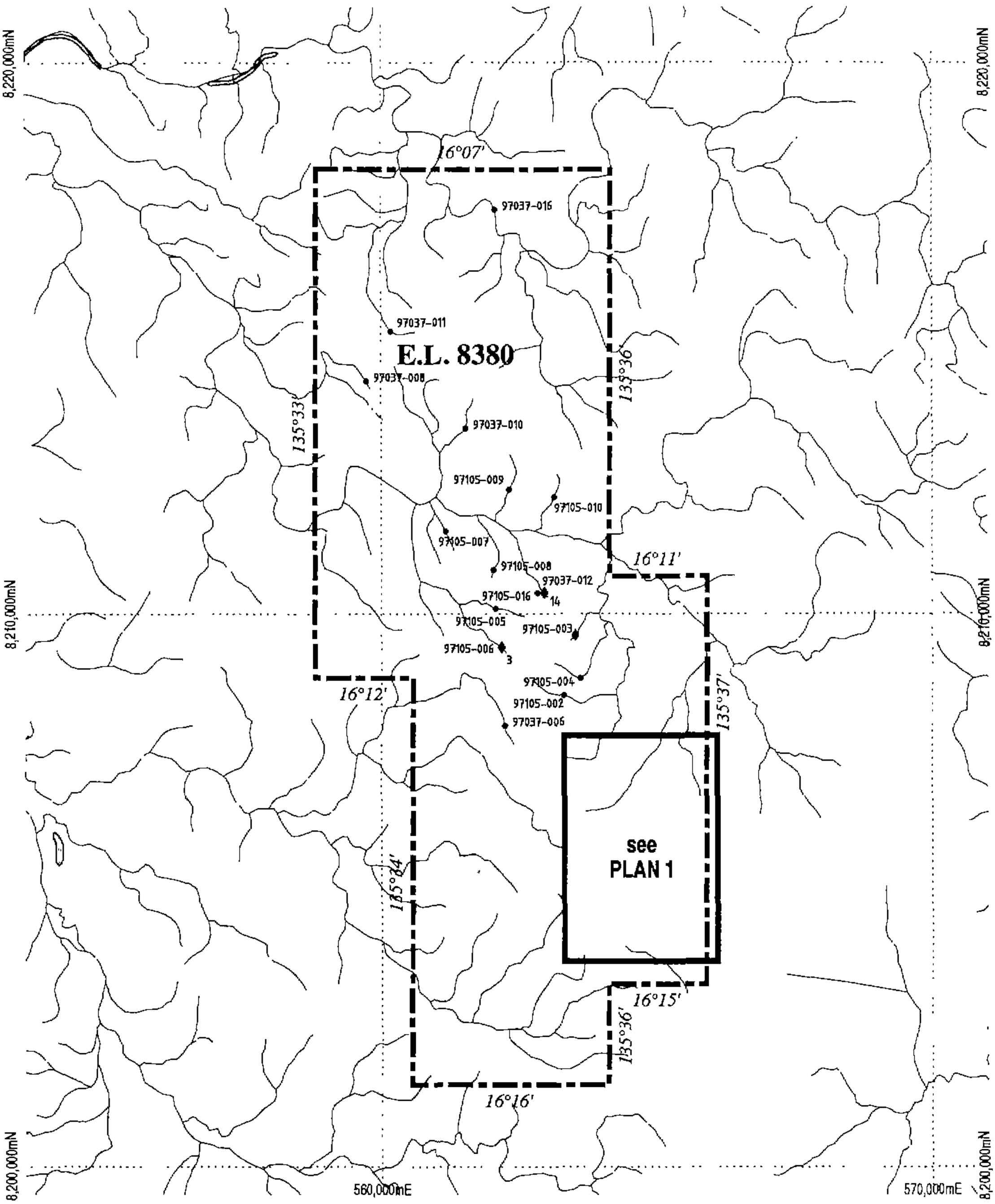
2.0 DIAMOND EXPLORATION

2.1 Outstanding Results

Laboratory processing of four drill spoil and three stream samples collected in the previous reporting period became available. One drill sample (96018-018) reported a single microdiamond. Encouraging results were returned from the three stream samples, with two (96070-002 and 003) reporting high numbers of chromite (9 and 18 respectively). The third sample (96070-001) reported both diamond and chromite. Sample locations are shown on Figure 2 of last year's annual report (reference 52083). A full listing of results is provided in Appendix 1.

2.2 Sampling

Sample locations are shown on Figure 2 and Plan 1. A complete listing of results for samples processed by Ashton's Diamond Laboratory is provided in Appendix 2.



KILOMETRES

0 1 2 3 4 5

1 : 100,000

- ∘ Sample - not yet processed
- • Sample - negative
- ♦ Sample - chromite positive
- ◇ Sample - diamond positive
- ⊕ Sample - other indicators
- × Geochemical sample location

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EXPLORATION LICENCE 8380
ANNUAL REPORT
SAMPLE LOCATIONS

FIGURE 2

JUNE, 1997

Tue Apr 07 14:03:11 1998
d:\drawings\licences\sampling\8380_97f2.dgn

2.2.1 Stream Sampling

(i) Anomaly Area

As part of the ongoing work programme in this area, two gravel samples were collected to check for the presence of indicator minerals within a newly discovered drainage system. One sample (97018-001) was collected from a small creek that flowed into the known chromite and microdiamond positive creek and had not previously been sampled. The second sample was collected upstream of the three positive samples, outlined in Section 2.1. Both samples were dispatched to Ashton's Perth laboratory for processing, however negative results were returned.

(ii) Regional

Two regional sampling programmes were undertaken within EL 8380 during the reporting period. The first programme was undertaken in May 1997, with six stream samples collected. Laboratory processing returned one positive result, reporting fourteen chromite.

Follow-up of this result was undertaken in November, with a further nine stream samples collected northwest of the anomaly area. Two samples returned positive results for chromite, with one sample reporting three grains and the other reporting a single grain.

2.2.2 Loam Sampling

As part of the field investigation of geophysical anomalies (*see Section 2.3*) two loam samples (97018-003 and 004) were collected from newly defined EM-34 anomalies. Sample 97018-003 was centred on target GEMLC03 at 564950E 8205280N. Sample 97018-004 was taken over target GEMLC04 at 565050E 8206550N. Both samples reported negative results.

A further two loam samples (97078-001 and 002) were collected from within EL 8380 during the period. Both samples reported negative results.

2.2.3 Rock Sampling

During reconnaissance mapping and geophysical surveying within EL 8380, anomalous looking haematite bearing rocks were observed in the basalt and tuff rocks to the west of the main anomaly. Three rock samples were collected for geochemical analysis (*see Section 2.5.1*).

One rock sample (97105-016) was collected from a mafic green dyke cross cutting a ridge to the west of positive sample 97037-012 (14 chromite). Laboratory processing of this sample reported a negative result. A sample of the rock has been sent to Pontifex and Associates for thin section preparation.

2.2.4 Vegetation Sampling

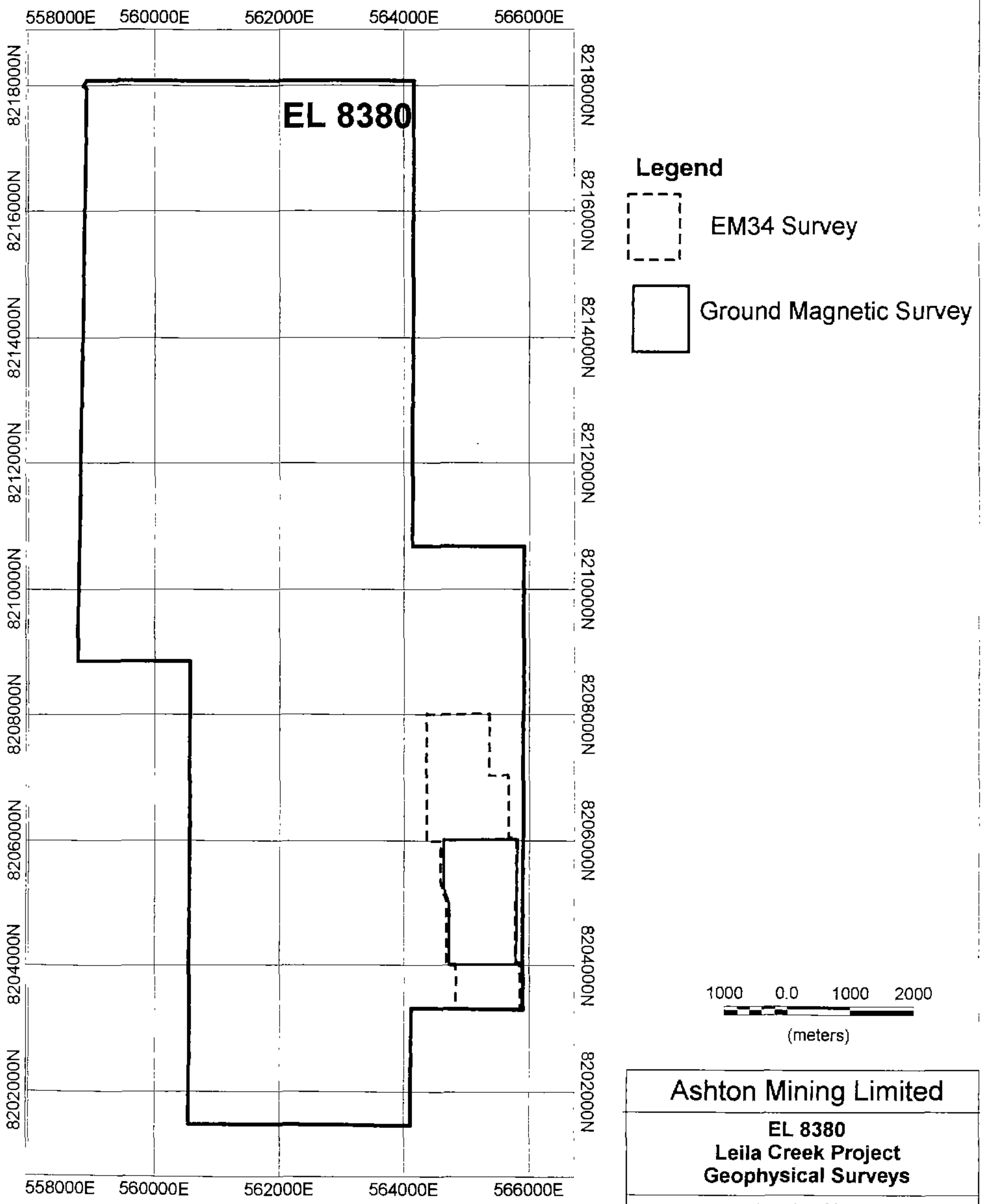
As part of the follow-up of drill targets, vegetation samples were taken across several drill targets, including a vegetation anomaly with a coincident EM-34 anomaly (GEMLC01), which was drill tested in the previous field season intersecting infill claystones/mudstones. Eleven samples were collected across this target.

Four other EM-34 targets were sampled, with lines being completed across targets GEMLC02 (7 samples) and GEMLC04 (9 samples). Single vegetation samples were collected over targets GEMLC03 and GEMLC06. Twenty-nine samples were collected in total. See Section 2.5.3 for results.

2.3. Geophysics

2.3.1 Ground Magnetic Survey

A ground geophysics survey was first conducted over an indicator anomaly in 1996, with the survey area covering what was then believed to be the most likely source area for indicator minerals. Additional sampling in this area identified greater concentrations of indicator minerals in a drainage west of the area previously covered. As a result, the survey area was extended to the west and south of the original area. Survey specifications were as follows:-


558000E
560000E
562000E
564000E
566000E
8218000N
8216000N
8214000N
8212000N
8210000N
8208000N
8206000N
8204000N
8202000N
EL 8380
Legend
EM34 Survey
Ground Magnetic Survey
1000 0.0 1000 2000
(meters)
Ashton Mining Limited
EL 8380
Leila Creek Project
Geophysical Surveys
Location Map
Figure 3

Magnetometer:	G856 Proton Precession Magnetometer
Sensor Height:	2m
Line Spacing:	50m
Station Spacing:	5m
Line Orientation:	N-S
Line kms:	24 line kms

The location of this survey can be seen in Figure 3. Traverse lines are shown in Figure 4 and a contour plot is given as Figure 5. One magnetic target (GMLC09) was delineated for further field investigation.

2.3.1 EM-34 Survey

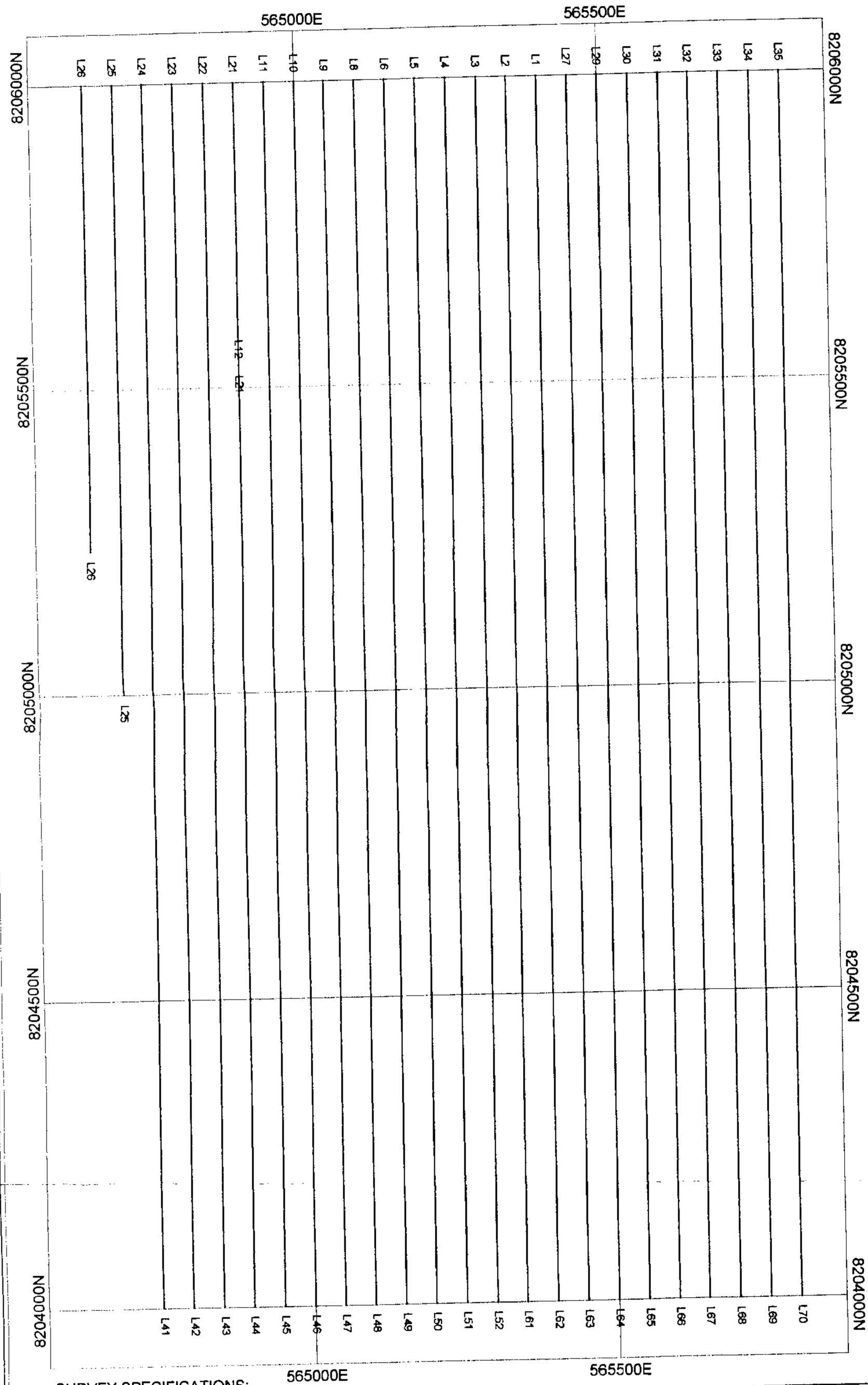
EM-34 testing was also completed over the extended area. The location of this survey is shown in Figure 3. Survey specifications were as follows:-

Line Spacing:	50m
Station Spacing:	20m
Line Orientation:	N-S
Line kms:	52.5 line kms

Traverse lines are shown in Figure 6 and a contour plot is given as Figure 7. Interpretation of data resulted in seven anomalies (GEMLC01 to GEMLC07) being selected for further investigation. One target, GEMLC01, was drill tested in the 1996 field season.

2.4 Drilling

Prior to commencing drilling activities, a substantial disturbance notice was lodged with the Department of Mines and Energy. The drilling programme was undertaken by Jack



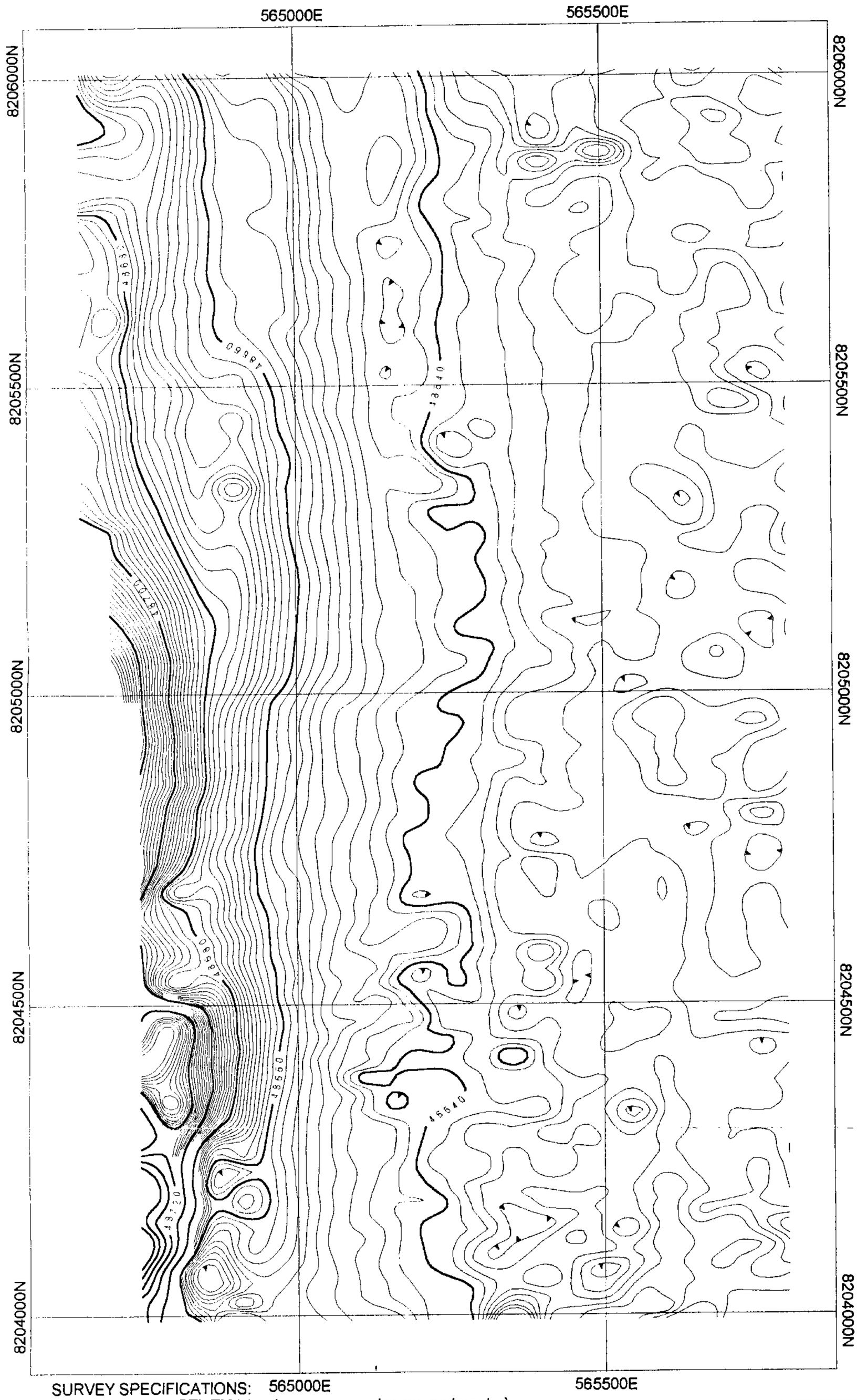
Scale 1:7500

100 0.0 100 200 300

(metres)

SURVEY SPECIFICATIONS:
Magnetometers: GTL TM4 (cesium vapour roving magnetometer)
Geometrics 856 (base station)
Base Station Reading Interval: 10 sec
Sensor Height: 3 m
Line Separation: 50 m
Station Spacing: 0.5 m
Line Direction: North-South
Positioning: Fugro Differential with Trimble Scout Master GPS
Date of Survey: May 1997 Data has been diurnally corrected.

Ashton Mining Limited
EL 8380 **Leila Creek Project** **Ground Magnetic Survey**
Traverse Lines
Figure 4



NOTES:

Gridded data has been upward continued 20 m

Contour interval is 2 nT

Scale 1:7500

100 0.0 100 200 300

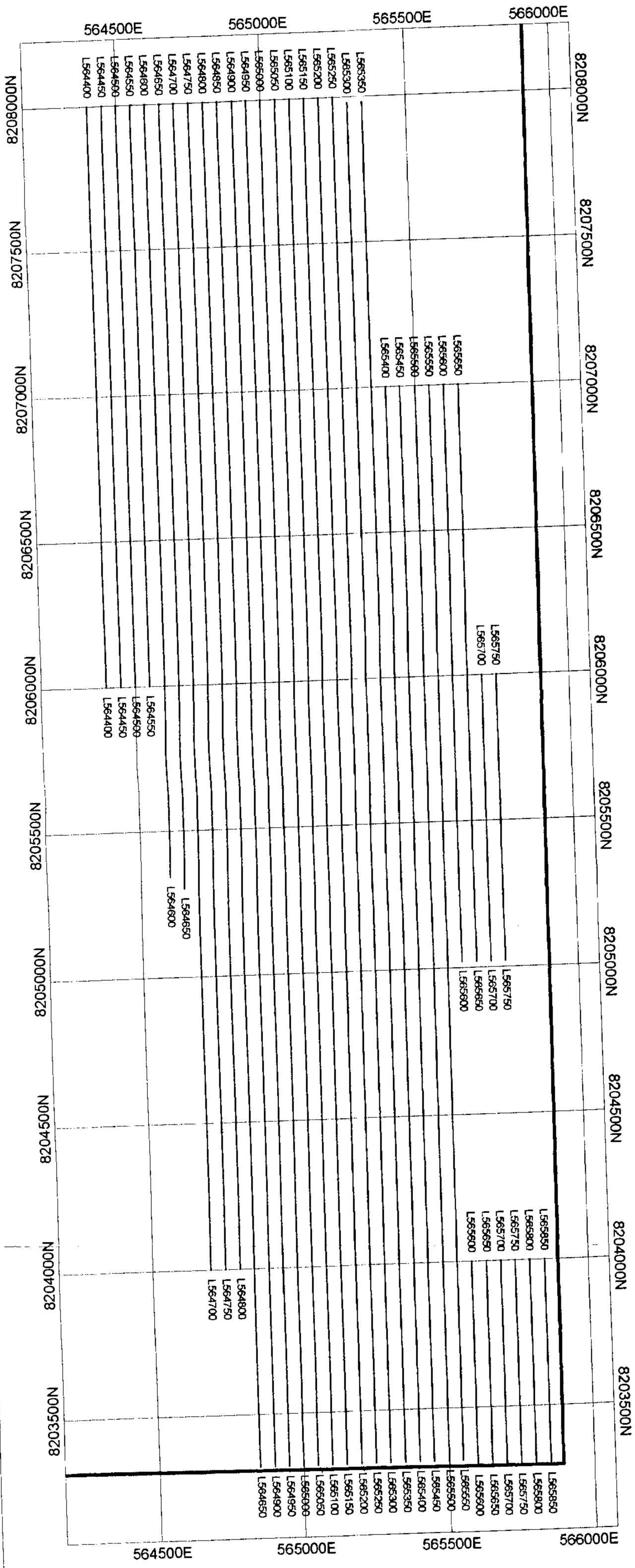
(metres)

SURVEY SPECIFICATIONS:

Magnetometers: GTL TM4 (cesium vapour roving magnetometer)
Geometrics 856 (base station)
Base Station Reading Interval: 10 sec
Sensor Height: 3 m
Line Separation: 50 m
Station Spacing: 0.5 m
Line Direction: North-South
Positioning: Fugro Differential with Trimble Scout Master GPS
Date of Survey: May 1997

Data has been diurnally corrected.

Ashton Mining Limited
EL 8380 **Leila Creek Project** **Ground Magnetic Survey**
Contour Plot
Figure 5



SURVEY SPECIFICATIONS:
Instrument: Geonics EM34-3
Operating Frequency: 1600 Hz at 20 m coil separation
Coil Orientation: Horizontal Dipole (Coils are upright)
Coil Separation: 20 m
Line Direction: North - South
Line Separation: 50 m
Station Spacing: 20 m
Positioning: Fugro Differential with Trimble Scout Master GPS
Date of Survey: May 1997

Scale 1:15000

250 0.0 250 500

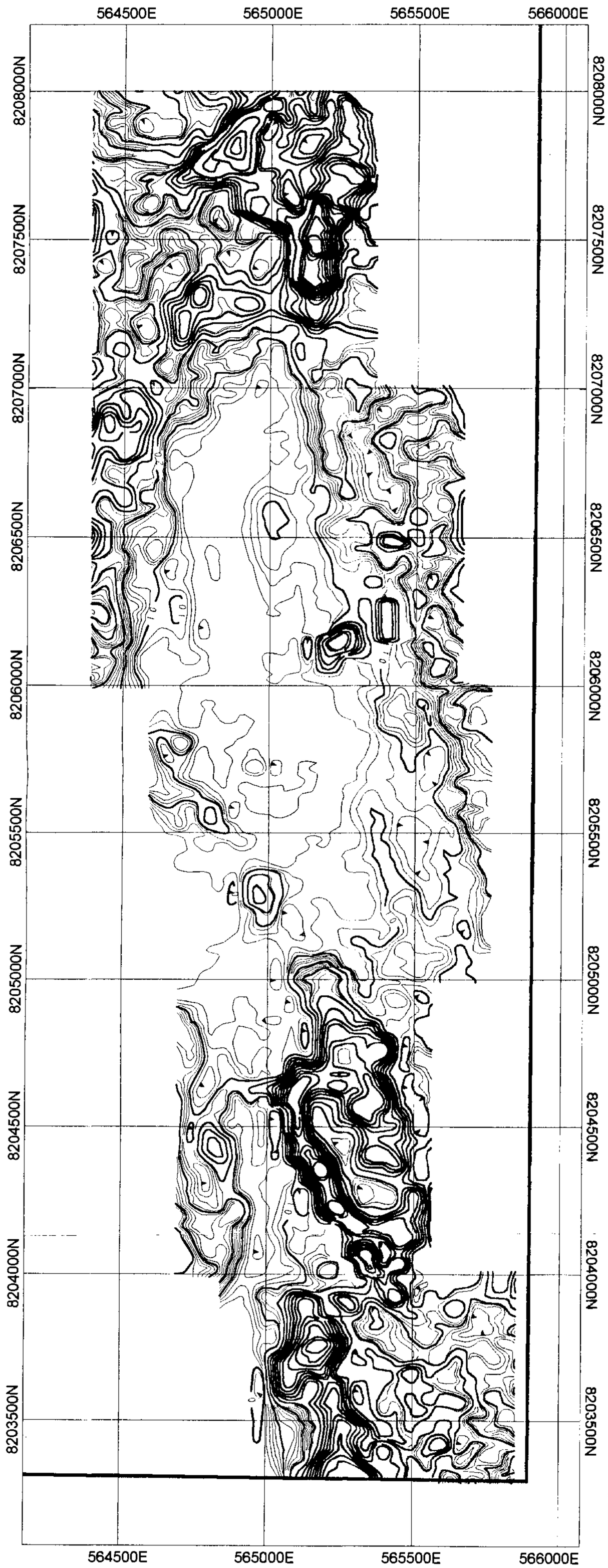
(metres)

Ashton Mining Limited

EL 8380
Leila Creek Project
Ground EM34 Survey

Traverse Lines

Figure 6



SURVEY SPECIFICATIONS:
Instrument: Geonics EM34-3
Operating Frequency: 1600 Hz at 20 m coil separation
Coil Orientation: Horizontal Dipole (Coils are upright)
Coil Separation: 20 m
Line Direction: North - South
Line Separation: 50 m
Station Spacing: 20 m
Positioning: Fugro Differential with Trimble Scout Master GPS
Date of Survey: May 1997

Scale 1:15000

250 0.0 250 500

(metres)

Ashton Mining Limited

EL 8380
Leila Creek Project
Ground EM34 Survey

Contour Plot

Figure 7

Schubert Drilling Services Pty Ltd of Mt Isa.

Of the seven EM-34 anomalies, only two targets were drill tested, namely GEMLC03 and GEMLC04.

GEMLC03 is approximately 50 metres in diameter. This target was drilled to 52 metres intersecting soft sandstone and mudstone, before being abandoned due to caving. The hole (BH 821) was later diamond drilled, finishing at 96.3 metres. No kimberlitic material was noted.

GEMLC04was successfully drilled to 141 metres (BH 822). Soft sands and siltstones were encountered to a depth of 96.5 metres, followed by 39m of clay containing small to larger fragments of sandstone, black shale and dolomite. This was highly suggestive of a kimberlite breccia, however geochemical anlaysis of core from the drillhole did not provide a kimberlitic response. Dolomite was encountered at a depth of 135 metres.

Drill testing of the magnetic anomaly (GMLC09) was also undertaken (BH 823), drilled to a depth of 21 metres. One stratigraphic hole (BH 824) was drilled to 21 metres. No kimberlitic material was encountered.

From the four holes, five drill spoil samples were collected and dispatched to Ashton's Perth laboratory for routine microdiamond and indicator mineral analysis. Drillhole locations are shown on Plan 1. A drillhole summary is provided in Appendix 3. Drill

logs are given in Appendix 4.

2.5 Geochemistry

2.5.1 Rock Samples

The three rock samples were submitted to Analab Laboratories for analysis in the following elements:- Ni, Cr, La, Ce, P, Sr, Eu, Nd, Nb, Ba and Sm. Geochemical results are given in Appendix 5. Results indicate that none of the samples are of a kimberlitic source.

2.5.2 Core Sample

A core sample (97048-001) collected from BH 822 was submitted to Australian Laboratory Services (ALS) for geochemical analysis. This sample was analysed for:- Ni, Cr, La, Ce, P, Sr, Eu, Nd, Nb, Ba and Sm. Results are provided in Appendix 5.

2.5.3 Vegetation Samples

The twenty-nine vegetation samples collected over EM targets, were dispatched to H.K. Herbert and Associates for geochemical analysis. Results are provided in Appendix 6. Sample locations are shown on Plan 1.

2.6 Laboratory Procedure

All stream and loam samples were processed by the Ashton Mining Limited Laboratory in Perth, where they were concentrated by Wilfley Table and heavy liquid separation techniques.

The heavy liquid used was tetrabromethane with a specific gravity of 2.96. The concentrates were then screened into various size fractions, further concentrated by magnetic and electrostatic separation techniques and a comprehensive grain by grain examination carried out on the minus 1.0mm plus 0.425mm fractions.

3.0 EXPLORATION EXPENDITURE

Exploration expenditure for the period 29th March, 1997 to 28th March, 1998 amounted to $ 110,201. A detailed breakdown of expenditure is given in Appendix 7.

4.0 CONCLUSIONS & RECOMMENDATIONS

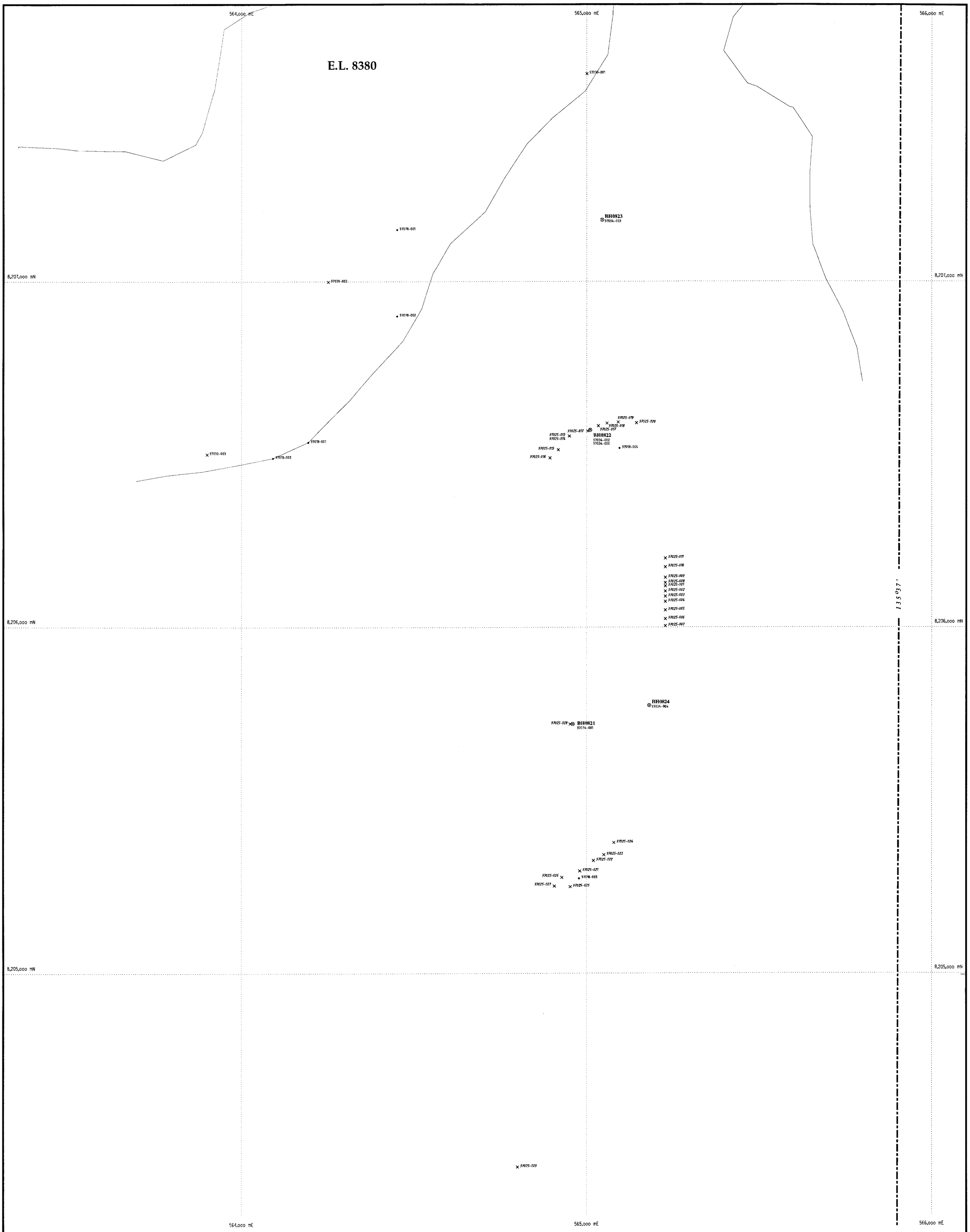
The source of both chromite and microdiamond recovered in the tenement area remains elusive. The recognition of younger sediments overlying the Proterozoic sediments in parts adds to the difficulty of resolving the anomalies, however continued follow-up of the stream anomalies is warranted.

5.0 PROGRAMME AND BUDGET

The proposed programme and budget for the period 29th March, 1998 to 28th March, 1999 is as follows:-

- Commission airborne survey over northern portion of licence.
- Investigate geomorphic target and drill test.
- Follow-up stream sampling in northwest of tenement.
- Ground geophysical surveys to follow-up selected targets.
- RAB drill testing of generated targets.

Geoscientist/Professional Staff	8,000
Field Support/Office Staff	6,000
Travel/Accommodation/Meals	4,000
Field Supplies	3,000
Equipment	2,000
Vehicles	3,000
Freight/Storage	1,000
Drilling	12,000
Geophysics	5,000
Laboratory	15,000
Drafting/Computing	1,000
Total:	**$ 60,000**



CR98/396

- Sample - not yet processed
- Sample - negative
- Sample - chromite positive
- Sample - diamond positive
- Sample - other indicators
- Geochemical sample location
- Drill hole location

METRES

0 100 200 300 400 500

1 : 5,000

ASHTON MINING LIMITED		
A.D.E. JOINT VENTURE		
EXPLORATION LICENCE 8380 ANNUAL REPORT SAMPLE AND DRILL HOLELOCATIONS **PLAN 1**		
Geologist :	Date : APRIL, 1998	Report No : 52204
Drafted : M.F.Ariotti	Revised :	Drawing No :

D:\DRAWINGS\LICENCES\SAMPLING\8380 005 97.DGN

APPENDIX 1

Outstanding Results
(1996 – 1997)

Sample Results for EL 8380

Annual Report for the period 29/03/97 to 28/03/98

			Diamond			
Sample	**SampleType**	**Result**	**Micro**	**Macro**	**Chromite**	**Other**
96018-014	DS	NEG	-	-	-	-
96018-018	DS	POS	1	-	-	-
96018-019	DS	NEG	-	-	-	-
96018-020	DS	NEG		-	-	-
96070-001	G	POS	1	-	1	-
96070-002	G	POS	-	-	9	-
96070-003	G	POS	-	-	18	-

G = Gravel DS = Drill Spoil

APPENDIX 2

Sample Results
(Current Period)

Sample Results for EL 8380

Annual Report for the period 29/03/97 to 28/03/98

Sample	SampleType	Result	Diamond Micro	Diamond Macro	Chromite	Other
97018-001	G	NEG	-	-	-	-
97018-002	G	NEG	-	-	-	-
97018-003	L	NEG	-	-	-	-
97018-004	L	NEG	-	-	-	-
97037-006	G	NEG	-	-	-	-
97037-008	G	NEG	-	-	-	-
97037-010	G	NEG	-	-	-	-
97037-011	G	NEG	-	-	-	-
97037-012	G	POS	-	-	14	-
97037-016	G	NEG	-	-	-	-
97078-001	L	NEG	-	-	-	-
97078-002	L	NEG	-	-	-	-
97105-002	G	NEG	-	-	-	-
97105-003	G	POS	-	-	1	-
97105-004	G	NEG	-	-	-	-
97105-005	G	NEG	-	-	-	-
97105-006	G	POS	-	-	3	-
97105-007	G	NEG	-	-	-	-
97105-008	G	NEG	-	-	-	-
97105-009	G	NEG	-	-	-	-
97105-010	G	NEG	-	-	-	-
97105-016	R	NEG	-	-	-	-

G = Gravel L = Loam R = Rock

APPENDIX 3

Drillhole Summary

Drill Results for EL 8380

For the period 29/03/97 to 28/03/98

	Sample		Depth			Diamond			
Sample	Type	Hole	From	To	Result	Micro	Macro	Chromite	Other
97034-001	DS	BH 821	5	53	NEG	-	-	-	-
97034-002	DS	BH 822	10	44	POS	-	-	5	-
97034-005	DS		45	141	NEG	-	-	-	-
97034-003	DS	BH 823	3	21	NEG	-	-	-	-
97034-004	DS	BH 824	3	21	NEG	-	-	-	-

DS = Drill Spoil

APPENDIX 4

Drill Logs

ASHTON MINING LIMITED

RAB HOLE: RH 821

GEOLOGICAL LOG FOR ROTARY AIR BLAST DRILLHOLE

Logged by: BJT & BNT

Prospect: TANABIRS

Anomaly/~~Line~~: GEMLC 03

Topographic map: BATTEN 1:100 000

Grid Coordinates:

AMG Coordinates: 564960 E 8205720 N

Tot.Depth: 52.5 | Hole Size: 4½" | Azimuth: – | Inclination: -90° | Bit: BLADE/HAMMER | Date: 17.5.97 | Page: 1 / 2

Interval (m) From	Interval (m) To	Sample No. Prefix	Description	Magnetic Susceptibility X10⁻⁵ S.I. Units					
0	3		RD STR FERR. MD GR WK CONSOLIDATED SAND	0-3	17	17	10	31	0
3	4		AS ABOVE + 5-10% PISOLITES	4	40	18	15	32	15
4	5		RD-BRN FERR SST + 20% PISOLITES.	5	45	19	10	33	5
5	7		WH-CRM SSL/CLAYSTONE. WK FERR COATING	6	15	20	15	34	0
			TO FRAGMENTS "INFILL UNIT"	7	10	21	↑	35	0
7	8		CRM-OR SSL/CLAYSTONE. STRONGER FRAGMENTS	8	20	22	MAG SUSX		↓
			MD FERR. "INFILL UNIT"	9	15	23			NO MAG SUSX
8	10		CRM-BRN WK CONSOLIDATED GRAVEL CONGLOMERATE	10	10	24			
			70-80% ROUNDED SST FRAGMENTS + MR CLAY.	11	15	25	NO		
10	15		AS ABOVE BUT DECREASING ROUNDED	12	5	26	↕		WET
			SST FRAGMENTS TO 0% DOWN HOLE.	13	5	27	MAG		52.5
15	20		CRM-BRN WK CONSOLIDATED MD GR SST	14	5	28			
			+ MR CLAY.	15	6	29	↓		
20	23		CRM-BRN CLAY-SSL → NO SAMPLE RETURN	16	5	30	0		

WATER INJECTED

ASHTON MINING LIMITED

RAB HOLE: BH 821

GEOLOGICAL LOG FOR ROTARY AIR BLAST DRILLHOLE

Logged by: BJT & BNT

Prospect: TANABIRS Anomaly/~~Line~~: GEMLC 03 Topographic map:

Grid Coordinates: AMG Coordinates: E N

Tot.Depth:	Hole Size:	Azimuth:	Inclination:	Bit:	Date:	Page: 2 / 2

Interval (m) From	Interval (m) To	Sample No. Prefix	Description	Magnetic Susceptibility X10^{-5} S.I. Units
23	40		WK CONSOLIDATED CRM-OR F-MD GR SST.	
			SOME SSL/CLAYSTONE FRAGS (? UPHOLE CONTAM)	
40	43		CRM WH F-MD GR SST (WKLY CONSOLIDATED)	
			30% SSL/CLAYSTONE → UPHOLE CONTAM?	
43	52+		CRM F-GR SST/CLAY (WKLY CONSOLIDATED)	
52+	52.5		CHERT/SIL FRAGMENTS ? NEW UNIT?	
			HOLE CAVED IN ON STRING → ABANDONED	
			SUMMARY 0-3 FERR SAND	
			3-5 LATERITISED SST	
			5-8 INFILL SSL/CLAYSTONE	
			8-15 CONGLOMERATE INFILL	
			15-23 INFILL SST/SSL/CLAY	
			23-40 SST ? INFILL ? BASEMENT	
			40-52+ " "	
			52+ ??	

ASHTON MINING LIMITED

DIAMOND ~~RAB~~ HOLE: BH 821

GEOLOGICAL LOG FOR ROTARY AIR BLAST DRILLHOLE

Logged by: SJL

Prospect: TANABURS

Anomaly/~~Line~~: EM No. 3.

Topographic map: BATTEN 1:100 000

Grid Coordinates: —

AMG Coordinates: E N

Tot.Depth: 96·3 m	Hole Size:	Azimuth: —	Inclination: -90°	Bit: NQ	Date: 7-6-97	Page: 1 /

Interval (m) From	Interval (m) To	Sample No. Prefix	Description	Magnetic Susceptibility X10^{-5} S.I. Units
			TOP OF DIAMOND HOLE AT 53·5m. FROM	
			0-53m LOGGED FROM RAB DRILL SPOIL.	
53·5	54m		Fractured, l. grey fine gr. s'st or chert? Some	
			~1cm wide tonal grey laminations. Orange staining on	
			fracture surfaces is common.	
54	56m		Fine gr., yellowish-white silicified m'st. Colour	
			streaking evident. Gen. very fractured + end of interval	
			becomes v. fine gr. soft + powdery clay / clayey m'st.	
56	57·5m		Pinkish-red, v. fine gr. clay - often with yellow-grey-white	
			streaks/laminations grading down-hole to harder pink	
			m'st + some clay.	
57·5	58m		No core return	
58	59·5m		Some fine gr. pink m'st as above undulain by	

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GEOLOGICAL LOG FOR ROTARY AIR BLAST DRILLHOLE

Logged by:

Prospect:	Anomaly/Line:	Topographic map:
Grid Coordinates:		AMG Coordinates: E N

Tot.Depth:	Hole Size:	Azimuth:	Inclination:	Bit:	Date:	Page: 2 /

Interval (m) From	Interval (m) To	Sample No. Prefix	Description	Magnetic Susceptibility X10^{-5} S.I. Units
58	59·5m		CONT... v. fractured, fine gr. l.grey silicified mst	
			with some white clay coating fractures. No solid	
			core returns; only v. fractured rubble.	
59·5	60 m		No Core Return.	
60	61·5m		No core.	
61·5	66·5m		Broken & angular (fractured) frags. of fine gr.	
			l.grey silicified mst - presumably in weathered, clay-	
			rich matrix. Fracture surfaces are common - may be	
			planar or angular & usually Fe-stained (orange).	
			Some v.fine scale light/dark grey colour lam. evident	
66·5	67m		Pale fine gr. mst - pinkish white. Abundant	
			v. fine gr. shiny grains of qtz or mica?	
67	68·5m		Fragment of fractured white mst breccia in v.hard,	
			dark brn, Fe-rich? matrix - veined?	

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GEOLOGICAL LOG FOR ROTARY AIR BLAST DRILLHOLE

Logged by:

Prospect:	Anomaly/Line:	Topographic map:
Grid Coordinates:		AMG Coordinates: E N

Tot.Depth:	Hole Size:	Azimuth:	Inclination:	Bit:	Date:	Page: 3 /

Interval (m) From	Interval (m) To	Sample No. Prefix	Description	Magnetic Susceptibility X10^{-5} S.I. Units
68·5	71·5m		Pale, bleached green m'st. Fine gr. with common.	
			thin laminations. Only v. fractured fragments which	
			occur in sticky orange clay → presum. the weathered equiv.	
71·5	73m		Pale, greyish-white, fine gr. m'st frags. Very	
			fractured mubble only. Common orange fracture staining.	
			Rock frags. occur in some gritty, orange clay - friable.	
73	74m		Powdery, friable orange to pinkish-brn. clay	
			with some pale greenish, fine gr. & hard m'st frags.	
74	74·5m		Pale orange, fine gr. powdery clayey m'st. Common	
			v. fine gr. shiny grains. - qtz or mica?	
74·5	76m		No core.	
76	77·5m		Good recovery (~95%). Soft & plastic fine gr.	
			clay. Rusty orange colour with abundant fine-scale	
			wavy laminations → evident by colour variations which	

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GEOLOGICAL LOG FOR ROTARY AIR BLAST DRILLHOLE

Logged by:

Prospect:	Anomaly/Line:	Topographic map:
Grid Coordinates:		AMG Coordinates: E N

Tot.Depth:	Hole Size:	Azimuth:	Inclination:	Bit:	Date:	Page: 4 /

Interval (m) From	Interval (m) To	Sample No. Prefix	Description	Magnetic Susceptibility X10^{-5} S.I. Units
76	77.5m		CONT... include orange-brown - red + occ. grey/green	
			Common v.fine shiny grains - mica or qtz.	
			Towards end of run → the orig. rock type is	
			evident as an alt? orange, laminated micaceous	
			siltstone/mudstone. But still slightly clay-rich.	
77.5	78m		Broken frags. of hard, grey laminated	
			m'st → poss. silicified. Fracture surfaces are	
			commonly orange stained. Often irregular. Minor clay.	
78	79.5m		Broken core frags. only of finely laminated, pale	
			greyish-green m'st. Mod. hard rock frags in	
			soft orange-green clay.	
79.5	80.5m		Orange, fine gr. clay - often with greenish streaks.	
			Common micaceous grains - v.fine only. Small black vein	
			poss. Fe-bearing.	

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RAB HOLE:

GEOLOGICAL LOG FOR ROTARY AIR BLAST DRILLHOLE

Logged by:

Prospect:	Anomaly/Line:	Topographic map:
Grid Coordinates:		AMG Coordinates: E N

Tot.Depth:	Hole Size:	Azimuth:	Inclination:	Bit:	Date:	Page: 5 /

Interval (m) From	Interval (m) To	Sample No. Prefix	Description	Magnetic Susceptibility X10^{-5} S.I. Units
80·5	82 m		As above but more greenish laminated clayey	
			m'st at base of intrusl.	
82	83m		Clayey green m'st gives way to a strongly	
			fractured zone with in-filling of m'st by black +	
			white coloured veining. Bronnish alt. selvages evident	
			in m'st around in-filled veins.	
83	83·5m		Fine gr. yellowish-green silicified (partly)?	
			m'st. Abundant fracturing + veining + alteration	
			of m'st (bronnish colouration around veins).	
83·5	84 m		single 4cm rock fragment of silicified m'st -	
			bleached, pale orange colour.	
84	85·5m		No core return.	
85-5	86 m		V. hard, broken frags. of fine gr. m'st. Pale	
			pinkish-brown to orange-brown. colour. Prob. silicified but	

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GEOLOGICAL LOG FOR ROTARY AIR BLAST DRILLHOLE

Logged by:

Prospect:	Anomaly/Line:	Topographic map:
Grid Coordinates:		AMG Coordinates: E N

Tot.Depth:	Hole Size:	Azimuth:	Inclination:	Bit:	Date:	Page: 6 /

Interval (m) From	Interval (m) To	Sample No. Prefix	Description	Magnetic Susceptibility X10^{-5} S.I. Units
85·5	86m		CONT... certainly handed. Abundant fracturing -	
			often irregular surfaces with oxidation staining. Some	
			dry clay on surfaces - adhering to solid rock.	
86	86·5m		No return	
86·5	87·5m		Fractured, hard rubbly m'st as above.	
87·5	88m		As above but smaller rock frags.	
88	88·5m		No core.	
88·5	89·5m		Soft, sticky plastic clay. Orange-brn to	
			green + red in colour. Fine gr. Clay contains	
			frags. of in-coherent m'st (orig. rock?) which	
			are less-alt. but still fragile → often laminated.	
89·5	91m		Soft, fine gr. clay - gen. brown colour with	
			abundant pink-red + occ. green, fine gr. m'st frags.	
			Some harder (poss. silicified) m'st frags. at base.	

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RAB HOLE: BH 821

GEOLOGICAL LOG FOR ROTARY AIR BLAST DRILLHOLE

Logged by:

Prospect:	Anomaly/Line:	Topographic map:
Grid Coordinates:		AMG Coordinates: E N

Tot.Depth:	Hole Size:	Azimuth:	Inclination:	Bit:	Date:	Page: 7 /

Interval (m) From	Interval (m) To	Sample No. Prefix	Description	Magnetic Susceptibility X10^{-5} S.I. Units
89.5	91m		CONT... Note - this intrusl may also be	
			contam. as rods were pulled here!	
91	96.3m		Very hard, dark grey to black Chert. Very	
			porous - but provides good core return. Flinty	
			textural appearance. Sevrl fracture zones	
			intersect + contain gritty, dark brown slightly	
			clayey + very fractured rock.	
			E.O.H.	

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RAB HOLE: BH 822

GEOLOGICAL LOG FOR ROTARY AIR BLAST DRILLHOLE

Logged by:

Prospect: TANABIRS Anomaly/~~Line~~: GEMLC 04

Topographic map: BATTEN 1:100 000

Grid Coordinates:

AMG Coordinates: 565010 E8206570 N

Tot.Depth: 44	Hole Size: 4½"	Azimuth: –	Inclination: -90°	Bit: BLADE/HAMMER	Date: begin 13-5-97	Page: / /

Interval (m) From	Interval (m) To	Sample No. Prefix	Description	Magnetic Susceptibility X10^{-5} S.I. Units
0	3		LATERITIC PISOLITHS + RD-BRN FERR. SAND.	
3	4		RD-BRN PISOLITHS + 20% FERR SAND + 5% YL/ROC NODULES.	
4	7		RD UNCONSOLIDATED SANDS + 10% ROUNDED CGR SST	
7	9		OR-BRN WK CONSOLIDATED SST + MR ROUNDED	
..	.		FRAGMENTS	
9	12		OR UNCONSOLIDATED SAND – H_2O INJECTED	
			TO HOLD UP HOLE.	
12	17		OR – OR/RD WK CONSOLIDATED MD-GR SST	
17	33		GRY-PL PNK SSL ± SAND ± CLAY	
33	36		SSL? NO SAMPLE RETURN.	
36	44		BLACK-GRY CLAYEY F-GR SAND.	
			HOLE BEGAN TOO CAVE → CASE OFF HQ	
			SUMMARY 0–4 LATERITE. NQ DIAMOND.	
			4–9 SAND + ROUNDED GRAVEL.	
			9–17 "RUNNING SAND"	
			17–33 SSL	
			33–44 "RUNNING SAND"	

ASHTON MINING LIMITED

DDH: BH 822

GEOLOGICAL LOG FOR DIAMOND CORE HOLE **Logged by:** BJT

Prospect: TANABIRS ~~Anomaly~~/Line: GEMLC 04 Topographic map: BATTEN

Grid Coordinates: AMG Coordinates: 565010 E 8206570 N

Tot.Depth: 141.0 Hole Size: NQ/BQ Azimuth: – Inclination: -90° Bit: NQ/BQ Date: Page: 1 /

Interval (m) From	Interval (m) To	Sample No. Prefix	Recovery	Description	Magnetic Susceptibility X10^{-5} S.I. Units
43.7	46.23			BLK/GRY SILTY CLAY (10cm SANDY BAND	
				AT 44.7m + 1.5cm PYRITE BAND AT 44.3m)	
46.23	46.25			BRN/OR THINLY BEDDED MUDSTONE. HORIZ.	
				LAMINATION	
46.25	46.3			WH/CRM SANDY CLAY.	
46.3	48.5			PL PNK-WH MD. GR SST FRAGMENTS-	
				SOME ROUNDED, IN A SANDY CLAY MATRIX.	
48.5	83.0			WH-PL CRM F-MD. GR WEAKLY CEM.	
				SAND ~50% MOD CEMENTED & CONSOLIDATED	
				MR CLAYEY BANDS - WK HORIZ. LAMINATION.	
83.0	89.5			OR-R CRM MOTTLED SOFT F.GR SST.	
				MR SSL PARTS. WK SUB-HORIZ. LAMINATIONS.	
				SOME MORE CEMENTED MD. GR SST. (<10cm SECT*)	
89.5	93.5			PL GRN-WH SSL/CLAY + OR/PL CRM F.GR SST	

ASHTON MINING LIMITED

DDH: BH 822

GEOLOGICAL LOG FOR DIAMOND CORE HOLE **Logged by:**

Prospect:	Anomaly/Line:				Topographic map:	
Grid Coordinates:					AMG Coordinates: E N	
Tot.Depth:	Hole Size:	Azimuth:	Inclination:	Bit:	Date:	Page: 2 / 4

Interval (m) From	Interval (m) To	Sample No. Prefix	Recovery	Description	Magnetic Susceptibility X10^{-5} S.I. Units
40NT.				+ WH CLAYSTONE FRAGMENTS. UNITS	
				HAVE BEEN MIXED BY SLUMPING? INTO 1	
				AGGREGATE UNIT.	
93.5	94.3			WH - PL GRN CLAYSTONE. WK FERR. FRACT.	
				PLANES. AGGREGATED UNIT-WITH CLAY	
				AT BASE.	
94.3	96.0			PURP - RD SILTY CLAY. MR MICA ALONG	
				PLANAR (HORIZ) BEDDING SURFACES.	
96.0	96.5			WH - PL GRN CLAYSTONE. MR SUBHORIZ.	
				BEDDING SURFACES.	
96.5	98.0			ANGULAR LAMINATED CHERT, LIMESTONE.	
98.0	101.5			"BRECCIATED" ROCK FRAGMENTS IN	
				SILTY CLAY MATRIX VARYING FROM WH-PURP	
101.5	108.5			WH-PL LIME GRN CLAYSTONE & SSL(WH) +	

ASHTON MINING LIMITED

DDH: DH 822

GEOLOGICAL LOG FOR DIAMOND CORE HOLE

Logged by:

Prospect:	Anomaly/Line:	Topographic map:
Grid Coordinates:		AMG Coordinates: E N

Tot.Depth:	Hole Size:	Azimuth:	Inclination:	Bit:	Date:	Page: 3 / 4

Interval (m) From	Interval (m) To	Sample No. Prefix	Recovery	Description	Magnetic Susceptibility X10^{-5} S.I. Units
CONT				MR INTERVALS OF MD.GR - C.GR SST,	
				RD/BRN CLAY	
				101.5 - 101.6 RD/BRN CLAY + C.GR SST FRAGS	
				103.8 - 105.5 C.GR SST FRAGS	
108.5	116.0			RD/BRN CLAY CONTAINING NUMEROUS	
				INTERVALS OF PL GRN CLAYSTONE. MR	
				SST FRAGMENT INCLUSIONS	
				113.1 - 113.2 PL BRN SSL.	
116.0	118.0			FRAGMENTS OF VUGGY CHERT ?CHERTBRECCIA	
				→ MR BRN CLAY (WASHED AWAY?)	
118.0	125.9			BRN CLAY MR BRN SSL & SST INCL.	
				125.6 - 125.7 FRAGMENTS SOFT SSL	
125.9	129.5			CRM - BRN CLAYEY SSL, WK SED LAM^N	
				OBLIQUE TO CORE. MR CLAYEY INTERVALS	

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DDH: BH 822

GEOLOGICAL LOG FOR DIAMOND CORE HOLE

Logged by: BJT

Prospect: TANABIRS | Anomaly/Line: | Topographic map: BATTEN 1:100,000

Grid Coordinates: | AMG Coordinates: E N

Tot.Depth: 141.0 | Hole Size: NQ/BQ | Azimuth: – | Inclination: -90° | Bit: BQ DIAMOND | Date: | Page: 34/34

Interval (m) From	Interval (m) To	Sample No. Prefix	Recovery	Description	Magnetic Susceptibility X10^{-5} S.I. Units
129.5	141.0			CARBONATE PL PNK. GRY LIMESTONE.	
				MR SSL (PL GRN) INTERVALS. BLACKMIN?	
				DEVELOPED ON FRACT SURFACES.	
				131.9 - 132.5 - BRN SSL + SOFT SST +	
				BLACK NODULES BROKEN GRND.	
				135.0 - 135.7 WK FERR. LIMESTONE +	
				BRN CLAY.	

ASHTON MINING LIMITED

RAB HOLE: BH 823

GEOLOGICAL LOG FOR ROTARY AIR BLAST DRILLHOLE

Logged by: SSL

Prospect: TANABURS

Anomaly/~~Line:~~ MAG. TARGET (?)

Topographic map: BATTEN 1:100 000

Grid Coordinates: —

AMG Coordinates: 565044 E 8207178 N

Tot.Depth: 21 m	Hole Size: 4½	Azimuth: —	Inclination: -90°	Bit: HAMMER	Date: 8-5-97	Page: 1 / 3

Interval (m) From	Interval (m) To	Sample No. Prefix	Description	Magnetic Susceptibility X10⁻⁵ S.I. Units	
0	1 m	—	Thin layer of brown unconsolidated surficial sand overlying	0-1	200
			hardened reddish-brown laterite crust.	1-2	40
1	2 m	—	Orange-red sand particles, often poorly consolidated + friable (s'st?)	2-3	20
			with minor beige, partly clayey streaks. Occ. lat. pisolitic + frags	3-4	10
2	3 m	—	Pinkish-red + occ. beige weathered sst. Friable s'st chips-	4-6	8
			containing abundant qtz grains. Minor clayey s'st interbeds-	6-9	5
			with a few chips of whitish-grey to green, soft clay present.	9-12	10
3	4 m		Weathered, pale s'st - creamy brown to red; possibly mottled	12-14	5
			or streaked /OR interbedded s'st's. Clayey matrix with qtz	14-16	10
			grains (fine-med gr.). ~5% qtz frags - poss. veins?	16-19	20
4	6 m		Pale, pinkish s'st - friable + clayey matrix but qtz grains	19-20	15
			dominant. ~10% soft, fine gr. white m'st - pale	20-21	40
6	9 m		Fine gr., orange qtz s'st. Friable. Occ. white s'st		
			frags + minor soft m'st (~1%).		

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RAB HOLE: BH 823

GEOLOGICAL LOG FOR ROTARY AIR BLAST DRILLHOLE

Logged by:

Prospect:	Anomaly/Line:	Topographic map:
Grid Coordinates:		AMG Coordinates: E N

Tot.Depth:	Hole Size:	Azimuth:	Inclination:	Bit:	Date:	Page: 2 / 3

Interval (m) From	Interval (m) To	Sample No. Prefix	Description	Magnetic Susceptibility X10^{-5} S.I. Units
9	10m		As above but ~10% grey-white, poorly-sorted	
			(clayey matrix) s'st frags.	
10	14m		Pinkish-orange, fine gr. friable s'st. Spoil heaps are dom.	
			all sand. + ~1% white s'st frags.	
14	16m		Yellow g/J s'st	
16	17m		Orange-yellow + occ. white, fine gr. g/J s'st.	
			Friable (poorly consolidated).	
17	18m		Mod. hard, dark orange g/J s'st. Fine gr. Occ. thin	
			white veins x-cutting some rock chips, - poss. m'st interbeds?.	
18	19m		3/4 → soft, occ. plastic, v.fine gr. clayey s'st. Variety of	
			colours - white, pink-red, grey-green, orange..	
			1/4 s'st. - as above (mainly orange)	
19	20m		pale, mod. soft m'st similar as above ~~+ 1/4 s'st~~	
			pastel colours - green, pink, orange + white	

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RAB HOLE: BH 823

GEOLOGICAL LOG FOR ROTARY AIR BLAST DRILLHOLE

Logged by:

Prospect:	Anomaly/Line:	Topographic map:
Grid Coordinates:		AMG Coordinates: E N

Tot.Depth:	Hole Size:	Azimuth:	Inclination:	Bit:	Date:	Page: 3 / 3

Interval (m) From	Interval (m) To	Sample No. Prefix	Description	Magnetic Susceptibility X10^{-5} S.I. Units
20	21 m		Hand, fine gr. pale white to l.grey, occ. laminated; with	
			many frags. showing pale orange staining on some surfaces	
			silicified mst/sst or chert interval ?	
			E.O.H.	
			NB: Hole abandoned by driller b/c of fractured	
			nature of rock (prob. req. water injection to proceed?)	
			Possible fault zone ?	
			SUM: 0-2m: Laterite + overburden sands.	
			2-6m: Weathered clayey sst. + mst interbeds.	
			6-18m: Weathered qtz-rich sst.	
			18-20m: Soft mst with occ. sst.	
			20-21m: silicified mst(?) - fractured zone.	

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RAB HOLE: BH 824

GEOLOGICAL LOG FOR ROTARY AIR BLAST DRILLHOLE

Logged by: SJL

Prospect: TANABURS | Anomaly/~~Line~~: STRATIGRAPHIC HOLE ONLY | Topographic map: BATTEN 1:100 000

Grid Coordinates: — | AMG Coordinates: 565181 E 8205774 N

Tot.Depth: 21m	Hole Size: 4½"	Azimuth: —	Inclination: -90°	Bit: HAMMER	Date: 8-6-97	Page: 1 / 1

Interval (m) From	Interval (m) To	Sample No. Prefix	Description	Magnetic Susceptibility X10⁻⁵ S.I. Units	
0	2m	—	Fine gr., dark brn-red qtz sand. Unconsolidated	0-2	15
			overburden with some v. weathered s'st frags.	2-3	30
2	3m	—	As above + mina (1-2%) laterite pisoliths; <1cm + sub-ang	3-4	5
3	9m		Orange-red qtz. s'st. Very weathered. Friable	4-5	2
			frags. Fine gr., with occ. white frags. Very sandy spoil	5-21	~1
			but more rock chips present in 6-9m interval.		
9	11m		Moderately weathered, orange-red + white s'st.		
			Some mod. hard rock frags but many friable		
			gen. Qtz-rich + fine gr.		
11	14m		Pinkish, fine gr. s'st with ~5-10% white, pale		
			s'st frags.		
14	21m		Friable, fine gr. s'st. Gen. pinkish but occ.		
			mottled white. Variable (1-5%) v-fine gr., powdery		
			white m'st chips. E.O.H.		

APPENDIX 5

Geochemistry

GEOCHEMICAL RESULTS
EL 8380

Annual Report for the Period 29th March 1997 to 28th March 1998

Rock Samples	Sr	Ba	P	Cr	Ni	Ce	La	Nb	Nd	Sm	Eu
97030-001	25	315	2000	20	199	23.3	15.6	1.8	10.7	1.9	0.41
97030-002	5	26	153	<10	<10	8.91	4.53	2.0	3.6	0.7	0.16
97030-003	76	314	235	<10	<10	77.2	33.9	2.2	28.2	4.1	1.33
Method	GI201	GI201	GI201	GI201	GI201	GS201	GS201	GS201	GS201	GS201	GS201
Units	Ppm	Ppm	Ppm	Ppm	Ppm	Ppm	Ppm	Ppm	Ppm	Ppm	Ppm
Det. Limit	1	5	30	10	10	0.05	0.05	0.2	0.1	0.1	0.05

Drill Core	Sr	Ba	P	Cr	Ni	Ce	La	Nb	Nd	Sm	Eu
97048-001	46	95	6040	99	27	59.7	34.7	10.1	30	6.6	1.5
Method	MS587	IC587	IC587	IC587	IC587	MS587	MS587	MS587	MS587	MS587	MS587
Units	Ppm	Ppm	Ppm	Ppm	Ppm	Ppm	Ppm	Ppm	Ppm	Ppm	Ppm
Det. Limit	1	10	10	5	5	0.1	0.1	0.2	0.1	0.1	0.1

APPENDIX 6

Vegetation Results

Plant.xls

ppb	Ti 48	V 51	Cr 52	Mn 55	Co 59	Ni 60	Cu 65	Zn 66	Ga 71	Ge 74	As 75	Se 82	Rb 85	Sr 88	Y 89	Zr 90	Nb 93	Mo 98
97025-001	3832.10	49.90	239.62	25128.54	177.87	4493 46	2148.69	2559.07	28 05	2.52	117.42	56.54	5976.73	5553.78	99.22	31 52	0.43	32.85
97025-002	4875 39	36.39	158 91	21610.35	143 56	3685 36	2067 36	2865.76	52.01	4.43	57.85	45.44	5244 96	5549 93	102.09	8 52	0 03	39.88
97025-003	5765 63	32.37	126.85	24846.12	5562 59	4665.71	1782.56	6901.54	37.34	5 68	43.20	68.61	3266 45	9835.52	1642 79	6.51	1 74	11 16
97025-004	11424.78	75.93	388 40	5443.27	9253 80	4665 71	1663.59	8074.16	280.69	25.34	129.73	16.24	3870.66	17137.75	2197.55	20 10	1.18	29 72
97025-005	3763.00	82.86	403.33	23815.87	1663 74	2853.82	3570.63	3457.69	59.44	4.65	282.61	60.41	24595.57	3020 76	71 77	15.63	0.82	38.26
97025-006	9025.16	53.87	213.09	25055 74	193.19	2182.79	1699.66	1898 12	60.20	4.02	65.55	71.74	8219 89	16727 35	47 50	11.46	1.49	107.53
97025-007	6435.47	31 45	166.86	24271.99	2567.08	2093.60	1708.86	2583.06	32.22	3 01	61.20	32.07	9441 56	7420 07	191.35	7.94	2.32	22.47
97025-008	7260.99	44.59	167.00	18388.03	198.18	5847.71	1903.81	2632 59	134.00	5.39	44.61	80 41	3395 73	16344 92	101.05	16 44	0.83	38.82
97025-009	7866 45	48.69	214.46	15200.76	282 30	4947.36	2176.20	2381 55	159 92	5.39	39.36	86 71	8015 20	14554 63	148.59	14 22	0.03	30.91
97025-010	6940 41	60.89	302.72	27698.46	4471 38	4934 61	4085.10	5450 83	80 98	3.21	103 28	67.61	15886.35	13398 93	277.25	8 03	0 36	46 71
97025-011	9562.74	49.91	280.60	15596.43	7861.05	3498 04	2458.96	6012 88	134 94	14.25	109.60	143.70	7526 63	17736 93	1593.53	14 35	0.10	26 03
97025-012	4394.77	41.44	230.75	31042.53	3424.00	5183.85	3225 42	4768.66	64 32	6.59	256.14	90.56	15861.71	9665.67	305.19	7 27	2 19	25 48
97025-013	7245 20	84.11	222.44	27574.07	4784.93	3001.15	2632.83	5282.37	58 41	6.11	56.67	82.31	15026.85	15538 24	104.36	10 47	1 92	24 29
97025-014	9713 69	207.26	551.87	14228.43	12570 44	6343.89	3318.53	6654.41	100.68	10.40	78.60	119.81	5563.80	27137 63	666.44	14.38	1 38	43.12
97025-015	4692 74	31 96	266 65	26149.49	5045.68	3674.56	3501 01	3738.90	39 18	5.17	43.81	62.69	9379.47	15780 19	265 00	6.17	2.00	20.05
97025-016	10948.55	67.05	596 36	23317.53	7917.84	5046.99	1852 82	3308.69	137 70	10.72	71.62	101.52	8723.99	29865 86	967 19	14 11	0.28	23 69
97025-017	10912.75	110.25	424 83	18335.37	11074.70	10770.28	3089 09	5842.93	149.13	19 73	184.36	682.58	10395.22	26850 54	1669 65	12 59	1.07	33 51
97025-018	13752.43	122.82	250 50	973 90	11075 10	4444.15	2652 00	8443 93	292.51	22.69	148.91	288 13	6600.28	29967 23	1471 86	16 33	6.60	51 46
97025-019	8245.78	29.34	218.27	17247 25	9237 18	8714.53	1504.23	2392.86	95 73	12.71	55.58	88.04	3426 79	17100.41	1391.46	7.80	0.18	15 08
97025-020	9524 08	65.82	256.30	17248 78	8464.09	6736.99	2655.84	5963.38	219 02	12 38	105 22	141.25	3197 18	18875 85	649.76	14 45	1.29	24.68
97025-021	14505 42	71.18	637 39	32987.70	10272 82	3326 80	3191 46	8231.09	160 74	11 16	84.67	137.22	6365 72	20257 96	1070 33	14.22	1 06	28 69
97025-022	18899.47	42.80	190 43	15705 62	163.57	3101.21	1593 79	2541.99	49.65	6 40	27 03	54.37	9781.14	49803 08	334 76	19 59	4.05	12.80
97025-023	8368.43	51.61	888.43	24260 56	9393 80	4452.24	1660 69	4708.50	86.57	6.58	49.56	37.10	7222.04	13016.36	2094 53	11 52	0 81	21 15
97025-024	12767.87	49.13	452.93	27128 59	7999 85	3006.94	1324.79	7600 14	132.49	7.21	56 59	88.80	5302.05	27577.10	1225 68	13 09	1 42	17 36
97025-025	15074 57	67 64	276.88	17502.27	204.32	2571.45	3828.20	4774 73	47 22	4.29	29.12	96.39	14469 72	25463.16	243 09	9.61	0 79	24 91
97025-026	7956.33	42 98	334.12	29490 59	7782 13	2681.20	2109.86	6878.15	92.06	5 00	89.52	76.74	4699.28	28519.93	724.31	8.60	1.03	21 24
97025-027	9471.07	61.13	310.72	27445.21	206.04	4581.93	2115 25	3082.90	119.55	6 76	46.26	98.54	6043.41	17010 71	505 32	4.91	2.61	18 11
97025-028	6670.47	39 80	409 23	27464.95	8893.15	3204.09	2941 31	9000 02	135.43	5 93	64 36	76.75	16320.11	12520.79	1029 90	6.35	1 76	42 66
97025-029	8869.58	76.63	266 55	28943.86	258.02	5673.46	1527 64	10382.98	112.46	3 68	51 36	112.11	9470.88	21206.12	391 12	7.89	1 77	27 46

Plant.xls

Pd 108	Ag 109	Cd 111	In 115	Sn 120	Sb 123	Te 128	Ba 135	La 139	Ce 140	Pr 141	Nd 146	Eu 151	Sm 152	Gd 158	Tb 159	Dy 162	Ho 165	Er 166	Tm 169	Yb 172	Lu 176
4.34	0.38	13.46	0 95	3.42	6 83	1 27	7817 12	30.01	64.15	8.00	39.59	4.65	15 56	17 25	2.39	21.50	3 11	11.25	16.89	8.73	6.57
3.80	4.04	9.70	0 79	4.35	2.61	1.47	10517 13	22.82	43.96	8.60	36.76	6.06	16 90	14 55	2.35	16.62	3.19	8.91	4.38	7 56	9.46
5.28	0 55	11.43	1 19	0.13	4 12	1 21	50293 94	263.52	481.41	141.40	735 55	66.59	250.13	305.85	46 85	328.85	64.32	165.23	23 96	111.74	101 02
18.29	8.76	56.11	2 10	9.15	14.36	17.23	99412 85	520.39	439.15	257.49	1243 91	111.40	416.26	359.49	54 04	350.26	67.47	192.29	38.14	147 48	128 87
9.53	3.40	48 57	1.01	3.90	18 02	0 97	13926 87	53.35	51.39	10 93	47.34	7 87	21.06	11.50	2.16	14.06	1.12	6.66	13 12	5 16	5 59
5.28	0.29	17 79	0 70	5 22	4 35	2 17	31593 18	45.98	25.41	9 15	39 67	11.99	35 53	7 29	1 23	7 09	0.92	3 35	3.18	2 92	3 48
3 93	0 18	15.94	0 60	0 98	6 01	2 72	28067 36	156.76	83.03	45 96	215 29	14.77	61.03	43.75	5 85	34.80	5 50	17 19	5 93	12 84	10.29
7.35	0.31	15 00	1 10	3 89	5 79	7 43	9902 97	28.13	56.93	8 99	36.40	7 21	21.33	6.90	2 37	14.95	3 30	9 62	4 66	7 83	7 93
10 38	0.15	16.64	1.25	3.76	5 88	9 43	11761 81	40.76	89.43	13.40	73 13	7 85	27.96	25.47	4 18	22 55	4 35	12.35	4 67	10 72	10 00
7.59	3.87	42 62	0.76	5 44	7.17	1 47	44030.05	81.17	70.34	28.03	128.39	21 70	72.72	39 76	7 13	52 47	9 27	27.38	11 45	21 95	20.08
10.11	3 31	25.58	0.91	4 81	7.00	6.51	94953.34	614.36	208.24	262.09	1179 96	94 69	353 40	314.70	46.70	287 39	56.83	152 78	25 09	106 38	95 70
6.38	0 10	25 95	0.82	3.34	6.54	2.37	30237.03	40.61	29.95	20.96	100.21	13.91	51.83	26.88	4.80	36 18	7 34	26.21	5.78	17.06	17 34
9.92	0 47	25 64	0.74	5.26	13.24	2.49	37484.54	57.23	58.00	17.68	84.45	13.73	45.53	16 92	2.93	20 98	3.53	12 65	3.80	8 62	6 86
11.01	1 52	26 30	1.53	4.02	13.35	9.97	84740.59	225.24	237.70	95.70	441.64	49.92	174.13	120.71	19 18	123.48	24 90	74.83	13 54	63.35	54.93
5.29	2 08	16.60	0.64	1.67	9.96	3.69	32863.91	108.05	114.41	48.36	230.43	21.25	72.51	56.22	8 17	57.63	10.12	31.19	6.35	18.33	20 63
9 01	0 57	21 32	1 17	3.20	10.11	5.67	114487.13	343.75	496.32	160.28	740.68	81.18	282.19	195.99	28.70	179 04	33 34	100.89	16.12	72 16	61 16
10.21	6 91	36 18	1 40	7.59	9.84	10.73	99054.63	443.81	170.58	188.12	873.35	77.83	294.54	245.59	39.97	247 88	46 57	150 83	20 35	108.53	95 45
32.64	7.00	58.31	4 07	13.07	20.33	35.51	149683.26	481.76	203.92	183.65	809.63	87.83	305.62	214.41	33 28	211.05	41.31	117 13	17 53	82 76	81.29
10.83	1.15	15 41	1 35	4.68	6.25	11.16	70645.99	467.52	334.79	186.81	885.09	66 62	252.57	250.50	39 21	241.52	49.98	139 04	19.18	95.23	86.85
10.43	1.94	16.87	1 57	6.16	10.49	10.21	75024.43	252.47	204.80	101.90	461.53	52.82	168.87	111.43	16.54	100.86	17.82	57.91	10.35	42 34	36 08
8 96	0.57	23.97	1.01	4 25	6.85	9.79	108250.62	683.86	732.67	240.19	1036.53	93.39	347.41	247.56	33.12	193.54	31.71	91.25	13 94	65.58	58 32
5 02	4.01	3.05	0.61	5 69	3.49	0.70	155588.88	622 79	759 88	108 14	425 05	78.81	254 33	83.48	9.11	39.46	5.25	15.63	5.76	8 28	11.14
7 47	1 24	16.14	0.88	2 37	6 04	6 26	48722 12	149 85	119 90	94 00	508 79	52.66	184 21	201.10	33 55	244.15	50.23	165 74	22 34	135 32	117 24
6.82	0.47	30.86	0.86	4 33	6 24	4.83	98406.81	405.51	222 04	153.92	708.22	75 44	270 61	209.89	28.53	169.16	31.58	82 14	12 38	55 76	50 35
4 29	2.99	9 40	0.30	5 42	10 86	0.93	4173.44	268.87	241.73	63 18	277.13	11.62	58 16	58.79	7 57	31.85	6.82	17 23	5.06	11 43	12 01
6.06	0.46	19.40	0.64	3 28	6 09	1.92	62219.89	57.97	94.27	42 09	257.60	37.49	133.33	105 63	18.05	117.97	24.08	70.59	12.68	55.65	52.87
3.08	1.91	7.57	0.73	3.44	2.08	2.60	16593.79	103.14	116.16	43.16	220.37	20.89	74.17	74.96	11 09	80.76	14.74	46 34	8.23	35.23	29.72
3.29	3.47	21.21	0.60	4.99	23.41	1.58	35238.20	93.40	130.04	53.75	300.52	39.72	127.97	122.89	21.74	142.96	26.88	79.00	13.29	55 53	57 66
6.06	1.81	10 65	0 53	4.34	25.31	1 63	30416.96	39.55	94.64	13.27	62.84	16.76	45.49	36.05	6.50	47.09	10.29	30.92	6 49	22.59	20.35

Hf 178	Ta 181	W 182	Re 185	Pt 195	Au 197	Hg 200	Tl 203	Pb 208	Bi 209	Th 232	U 238
0.29	1.45	5.72	0.25	1.24	6.82	3.47	7.36	142 73	9.87	10.05	15 24
2.53	0.60	2 58	0 73	1 43	2 36	5 49	5.89	97 40	7.00	5 20	11 48
5.94	0.42	5 79	0 71	0.90	2 73	13.83	37 11	164.55	8.32	5 86	45.71
18.62	9.30	15.45	5 00	1.85	2 28	24.79	20.23	222.70	24.84	6 93	38.03
2.24	0.21	11.26	2.11	2.03	5.04	11.30	5.88	503.85	62.40	7.93	3.57
3.91	0.63	5.81	0 44	1.74	0.06	6 60	2.44	153.51	10.42	2.46	1.68
2.02	1 38	7.91	0.50	1.62	2.92	0 50	5.73	171.62	15.41	3.50	6.72
3.63	1.12	2.50	0.80	1 83	0.05	0.62	6.68	105.39	4.66	3.99	15.96
4.57	2.02	4.86	1.24	1.93	0 22	3.94	7.97	90.81	5.98	8.22	13.81
3.39	0.79	5.50	1 70	1.43	2 83	7.46	13.99	268.04	24.16	7.34	79.11
11.29	3.49	9.14	1.47	1.58	0 06	17.83	13.16	115.54	17.84	6 12	54 14
2.53	0.43	4.43	0.74	1 72	0.25	3 18	6.15	212 06	20.35	7 59	2.13
3.42	0.10	13 08	0.89	1 42	0.23	6.35	26.04	232.04	11.50	7 22	8.90
8.67	3.69	9 02	3 46	1 50	0.07	28.58	41.50	108.15	13.17	6 29	183.66
3 98	0.89	11.62	1.07	1 26	0.00	1 84	18.04	160.59	12.52	5.10	22 00
8.92	1.65	5.93	1.09	1 48	0.29	20 41	51.28	116.88	9.41	7.47	57 06
9.38	5.25	7.99	4.61	1 61	0.13	23.44	16.15	201.20	19.95	7.30	60 16
24.05	15.85	16.44	7.28	2 41	1.41	47 08	25.09	99.72	4.66	13.06	50.85
10.17	5.48	6.60	2 54	1 29	0 41	18 62	9.16	44 52	4.21	4.63	22.83
8.31	3.74	7.16	2 39	1.60	0.12	19.62	5.51	115.75	9.46	11.07	41 71
8 89	1 91	9.44	1.20	1 64	0.08	0.88	6.01	118 18	9.15	8.32	52.13
4.38	1 13	2.19	0.29	2.45	0.77	12.48	3.93	203.27	5.51	4.44	0.73
5.45	1.73	7.86	1.09	1 57	0 06	7.05	11.31	130.93	23.16	6.00	12.95
7.56	2.42	4.74	0.84	1.30	0.34	1.92	27 33	102.55	15.85	4.44	57.76
4.10	2.12	2 42	0.15	1.63	0.47	5.78	4.02	134.23	10.57	4.23	0.93
3.75	0.48	5 71	0.64	1.61	0.07	6.60	11.85	144.70	13.51	4.17	255.90
3.92	0.44	4.79	0.35	1.24	0 32	3.04	2 94	101.45	4.10	9.59	199.22
6.44	2.21	5.16	0.37	1.29	0 30	1.94	2.96	146.76	22.34	6.61	35 29
4.24	1.09	6.52	0.50	1.91	0.48	4.59	10 10	149 12	7.20	3.52	38.41

APPENDIX 7

Statement of Expenditure

STATEMENT OF EXPENDITURE

EXPLORATION LICENCE 8380

Annual Report

For the period
29th March, 1997 to 28th March, 1998

Geoscientist/Professional Staff	24,239
Field Support/Office Staff	7,355
Other Contractors	666
Travel/Accommodation/Meals	2,989
Field Supplies	840
Equipment	14,093
Vehicles	3,100
Freight/Storage	581
Helicopter Charter	4,137
Fixed Wing Air Charter	98
Drilling	29,022
Geochemistry	1,794
Laboratory	11,021
Drafting/Computing	122
Other	126
Sub-Total	100,183
Overheads	10,018
Total:	**$ 110,201**