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E.L. 2/63 and E.L. 17/77

MT. LINDSAY AND WILSON RIVER AREAS

ANNUAL REPORT

1984-85

**MICROFILMED**

**OPEN FILE**

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June, 1985

Circulation: R.G.C. (1)  
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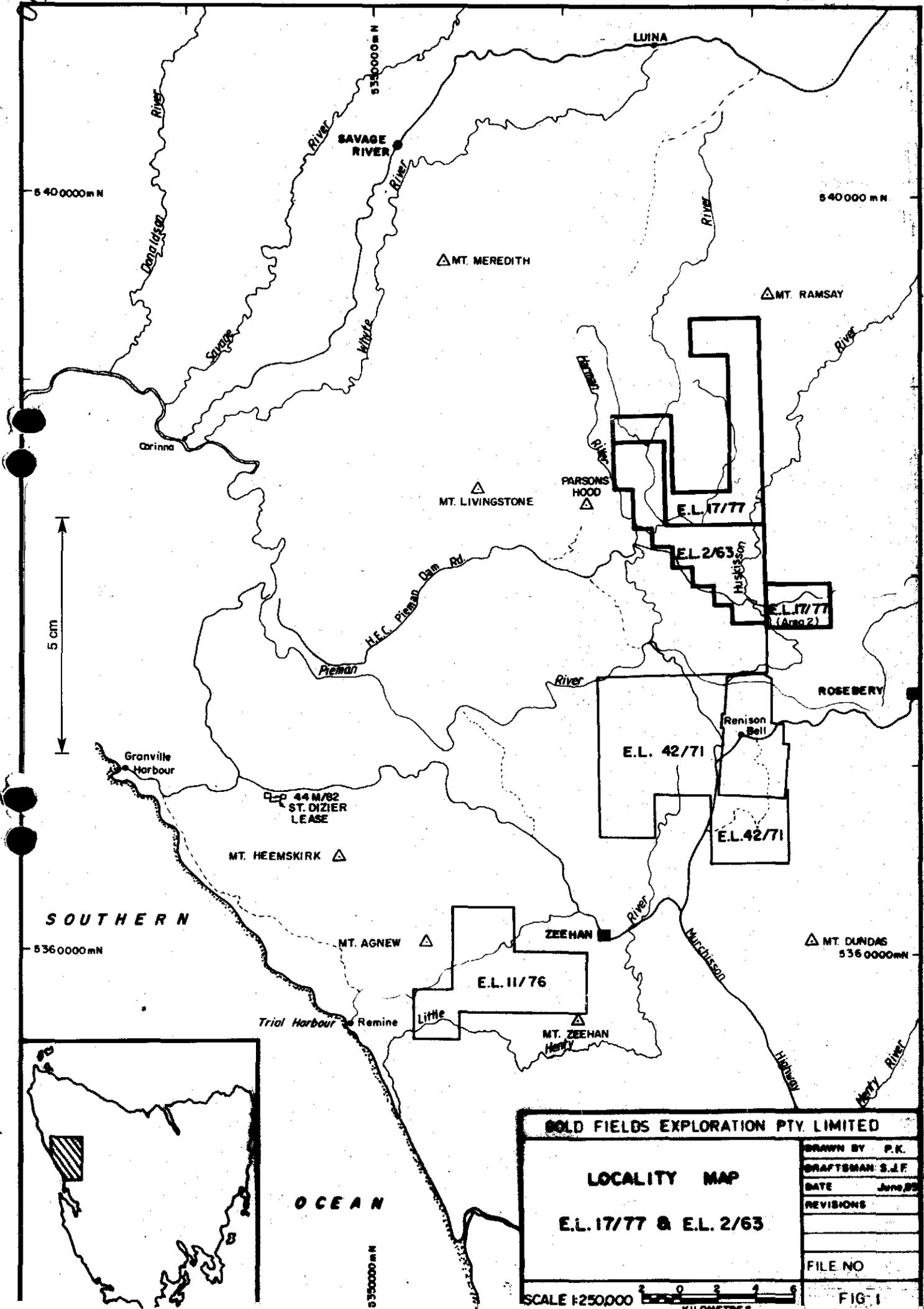
SUMMARY

Exploration completed on E.L. 17/77 and E.L. 2/63 during 1984-85 comprised follow up gridding, bedrock geochemistry, mapping and pitting within a zone of stream sediment anomalies in the Alfred River area on the boundary between the two E.L.'s.

Cassiterite and chromite within the streams of the Alfred River area originated from perched alluvial gravels located primarily within E.L. 2/63. Tin grades in the gravel are too variable and too low to be of economic interest. Bedrock sampling has also indicated there is no potential for carbonate replacement mineralisation within this area.

No further work is proposed for 1985-86.

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<b>GOLD FIELDS EXPLORATION PTY LIMITED</b>	
<b>LOCALITY MAP</b>	
<b>E.L. 17/77 &amp; E.L. 2/63</b>	
DRAWN BY P.K.	
GRAFTSMAN S.J.F.	
DATE June 82	
REVISIONS	
FILE NO	
SCALE 1:250,000	
KILOMETRES	
FIG 1	

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## 1. INTRODUCTION

Licences E.L. 2/63 and E.L. 17/77 are located north of Renison Bell on the West Coast of Tasmania and cover areas of 30 square kilometres and 40 square kilometres respectively (Figure 1).

The licence areas are generally rugged and heavily vegetated. Moderately good access is available in the southern part of the area via the H.E.C. Pieman Dam road and a number of four wheel drive tracks. The northern portion of the area is much less accessible, however, and exploration work there has relied heavily on helicopter support during the summer months.

Geologically the area comprises faulted and folded, north-west trending Upper Precambrian to Lower Devonian sedimentary rocks of the Huskisson Syncline and a remobilized ultramafic complex along the Cambrian-Ordovician boundary, intruded by the Devonian Meredith Granite.

The area is considered prospective for:

- (1) Metasomatic replacment deposits in favourable calcareous host horizons within the sediments adjacent to the granite i.e. skarns.
- (2) Fault controlled replacement deposit some distance from the granite margin i.e. Renison type deposits.

Following reduction of the two licence areas during 1984, work this year has concentrated on follow-up of a zone of stream sediment tin anomalies in the Alfred River area on the southern boundary of E.L. 17/77 (Area 1).

## 2. LAND TENURE

### 2.1 E.L. 2/63

Aberfoyle Limited is the holder of E.L. 2/63. Since 1972, The area has been explored by a Joint Venture between Renison Limited, C.G.F.A., Paringa Mining and Exploration Limited and Aberfoyle. Since July 1982, Gold Fields Exploration has been the operator on behalf of Renison and C.G.F.A. At present Renison is the sole financial contributor to exploration on E.L. 2/63 and the equity of both Paringa and Aberfoyle is currently being diluted.

In November 1984 an application was made to reduce the existing area of E.L. 2/63 from 90 sq. km., and subsequently approved.

### 2.2 E.L. 17/77

E.L. 17/77 is held in the name of Renison Limited a wholly owned subsidiary of Renison Goldfields Consolidated Limited. Exploration on the licence is currently being undertaken by Gold Fields Exploration Pty. Ltd., the exploration arm of R.G.C.

In November 1984, an application was made to reduce the existing area of E.L. 17/77 from 114 sq. km. to 40 sq. km. and subsequently approved.

### 3. EXPENDITURE

#### 3.1 E.L. 2/63

A total of \$9,811 was spent during the 10 months to the end of April, 1985. The total Joint Venture expenditure to date on the project now stands at \$1,124,637.

Expenditure details are listed in Appendix 1.

#### 3.2 E.L. 17/77

A total of \$47,453 was spent during the 10 months to the end of April, 1975. The total expenditure to date on the project now stands at \$598,271.

Expenditure details are listed in Appendix 1.

### 4. PREVIOUS WORK

Previous work undertaken on the original E.L. 2/63 and E.L. 17/77 licence areas is detailed in Roberts (1984) and Cartwright et. al. (1984) respectively.

Work within the retained areas carried out by Renison and G.F.E.L. between 1977 and 1984 consisted of:

- (1) An airborne Input EM/Magnetics survey in 1978 and a regional photogeological study in 1979.

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- (2) The establishment of the Harman River Grid and associated geochemical, geophysical and geological work in 1980; regional mapping and stream sediment sampling in 1981.
- (3) Extensions of the 1981 stream sediment survey, infilling of the Harman River Grid at Little Wilson River together with the establishment of two new grids at Laurel Creek and a grid at Merton Hill - all covered by geochemical, geological and geophysical surveys during 1981-1983. Drilling was also carried out at Merton Hill during the latter period.
- (4) The 1983-84 program consisted of completion of the stream sediment survey in the Huskisson Syncline and helicopter-supported diamond drilling at Laurel Creek.

5. WORK COMPLETED AND RESULTS 1984-85

5.1 Access

A total of 12.4 km. of gridding was completed by contractor W. Alliston over the catchment area of anomalous stream sediments located during the 1983-84 field season. The 200m. spaced grid was established from a base line bearing 078 degrees (magnetic) and originating at the southernmost helipad on the Alfred River. A second helipad was cut on the base line between lines 1400E and 1600E.

5.2 Geology

Outcrop within the gridded area is limited entirely to the creeks. However bedrock sampling by power auger indicated that the rock type is a uniform blue grey pelite (with minor psammitic units) of the Devonian Bell Shale sequence (See Figure 2). No evidence of alteration or veining was present.

The source of the anomalous stream sediment geochemistry was found to be gravels, located within the southern part of the grid, generally above the 180m contour line. Profiles of the six pits dug in the gravels show a variation in sedimentation from coarse cobble polymict conglomerates with chromite and minor cassiterite to medium grained equigranular quartz grit with minor grey clay (and little or no heavy minerals) to pale grey clay. The polymict conglomerate consists of chromite-rich quartzites, tourmalinised granite and minor ultramafics (Petrological descriptions in Appendix 3). Heavy mineral concentrations of chromite and cassiterite were variable and in all but one pit and were either in minor quartzites or confined to narrow zones.

The gravels are probably perched Tertiary(?) alluvial terraces derived from a river system such as the Huskisson which included the Meredith Granite, ultramafics and sediments within its source area. The present Huskisson River which flows 1.5 km. to the south of the gridded area is there elevated about 110m. above sea level. This is 70m. below the base level of the gravels.

### 5.3 Geochemistry

Twenty five metre spaced bedrock samples were collected over the whole grid by contractor N. Poltock using a power auger. Samples were pulverised whole and assayed for Sn, As, Cu, Pb, and Zn at Analabs in Burnie. Sample descriptions and assays are presented in Appendix 2 and individual element assays are presented on Figures 3-7.

With the exception of two spot assays of 910 ppm and 105 ppm, no significant bedrock Sn geochemical anomalies were detected. These two anomalous Sn values, (which were repeated on re-assay), are not associated with anomalous As or basemetals and hence the Sn is not considered to be hydrothermally derived. The lack of significant As or Cu anomalies throughout the whole grid also indicates the absence of hydrothermal activity in the area. Minor spot values of greater than 300 ppm for Pb and Zn are not considered to be significant.

To give an indication as to the bulk grade of Sn within gravels of the gridded area, six pits ranging from 0.4 to 2.5m. deep were dug and sampled at regular intervals. Only one of the pits reached bedrock. Gravels were dried, weighed and separated into seven weighed fractions of which only the largest fraction (+ 6.81mm) was not assayed. Clays were pulverised whole. Samples were then assayed at Renison for Sn, As,  $WO_3$ , Cu, Pb, Zn, Cr. Individual assay data is presented in Appendix 2 and weight-corrected

bulk assays are shown on Figure 8. A number of relatively unweathered bedrock samples contained overlying gravel. This gravel was separated from the bedrock, pulverised whole and assayed for Sn, As, Cu, Pb, Zn. Assay data is presented in Appendix 2 and shown on Figure 8.

The 0.5mm fraction of the gravel was also assayed for Au, then bulked into three samples and assayed for Os. Au and Os results are also presented in Appendix 2.

Assays of gravels from the pits showed that the heavy minerals are concentrated within the 1mm fraction and most of the tin occurs within -0.5mm fraction. The tin is concentrated within narrow gravel zones with the best weight corrected bulk assay being 688 ppm Sn over 0.25m.

With the exception of two pits the overall bulk Sn grade of the gravels was low. Assays for Au are not significantly anomalous.

## 6. DISCUSSION

Cartwright et. al. (1984) suggested that the elevated tin values within stream sediments from the Alfred River area could have originated either from:

- (a) Hydrothermal tin mineralisation, or
- (b) <sup>Detrital</sup> Detailed cassiterite probably in glacial(?) or tertiary fluvial gravels.

The Devonian Bell Shale sequence, which may include some carbonate horizons, outcrops within the entire gridded area and was cited as a possible replacement host. However bedrock sampling has shown no sign of hydrothermal alteration and the bedrock geochemistry shows little indication of hydrothermal mineralisation.

Geological mapping during 1984-85 has shown a gravel deposit within the south east corner of the gridded area, corresponding to a vegetation anomaly, in the headwaters of drainages anomalous in tin. Pitting of the gravels was completed to give an indication as to the possible economic potential of alluvial cassiterite. Assays of the gravels from the six pits were found to be comparable to those obtained within the stream sediments with anomalous Sn and Cr and low As, Cu, Pb and Zn. Although this method of assessment is by no means an adequate test of the whole gravel sequence, the pits showed that the Sn grade was variable and most of the cassiterite was confined to narrow zones. Clay beds and heavy mineral-poor gravels contribute a considerable dilution factor within the overall grade.

The lack of anomalous Sn or Cr in drainages adjoining the interpreted gravel area (see Figure 8) also indicates that the cassiterite-rich gravels are limited in extent to the headwaters of two north flowing streams.

## 7. CONCLUSIONS AND RECOMMENDATIONS

In the Alfred River area elevated tin values in stream sediments originate from perched alluvial gravels located primarily within E.L. 2/63. Assaying of the

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gravels indicate that cassiterite is generally confined to narrow zones and is variable in content.

Although a thorough evaluation of the economic potential of the alluvial cassiterite was not carried out, indications are that the bulk tin grade of the gravels is too low and too variable to be of economic interest. A second factor in downgrading the economic potential of the alluvials is that possible extensions of the cassiterite-bearing gravels outside of the grid are limited to the south, east and west by drainages which show no tin anomalies.

There appears to be no potential for hydrothermal mineralisation in the Alfred River Area.

No further work is recommended in this section of the two licence areas.

9. REFERENCES

Cartwright, A.J., Komyshan, P., and Roberts, P.A.,  
1984:

E.L. 17/77 Wilson River Area, Annual  
Report, 1983-74, Unpublished Report,  
G.F.E.L.

Roberts, P.A., 1984:

E.L. 2/63 Mt. Lindsay Area, Annual Report,  
1983-84, Unpublished Report, G.F.E.L.

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**APPENDIX 1**

**Expenditures 1984/85**

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## GOLD FIELDS EXPLORATION PTY. LIMITED

161017

E.L. 17/77 WILSON RIVER AREAEXPENDITURE

(10 months to end April, 1985)

Geology

-	Salaries	9,315
	Salary on-costs	655
	Transport	2,270
	Miscellaneous	7
	Outside Contractors	926
	Travel	27
	Stores	1,016
		<u>14,216</u>

Geophysics

-	Outside Contractors	<u>500</u>
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Geochemistry

-	Transport	7,849
	Assays	5,314
	Outside Contractors	9,180
		<u>22,343</u>

Drilling

-	Assays	<u>614</u>
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Land Acquisition

-	Miscellaneous	<u>800</u>
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Site Preparation

-	Outside Contractors	<u>8,233</u>
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Indirect Motor Vehicle Expenses74747,453

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**GOLD FIELDS EXPLORATION PTY. LIMITED**

161018

E.L. 2/63 MT. LINDSAY AREA

EXPENDITURE

(10 months to end April, 1985)

Geology

-	Salaries	3,075
	Salary on-costs	219
	Transport	2,220
	Travel	43
	Stores	42
		<u>5,599</u>

Drilling

-	Assays	<u>20</u>
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Land Acquisition

-	Miscellaneous	<u>3,577</u>
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Site Preparation

-	Outside Contractors	<u>316</u>
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Indirect Motor Vehicle Expenses

<u>299</u>
<u>9,811</u>

APPENDIX 2

Sample descriptions and assay results

**GOLD FIELDS EXPLORATION PTY. LTD.**

**SAMPLE RECORD AND ANALYTICAL DATA SHEET**

COLLECTED BY: P.K

PROJECT: EL 2/63

PROSPECT: Alfred River

SAMPLE STORAGE REQ'D:

LABORATORY: Remison

DATE DISPATCHED: March 85

1:250,000 SHEET:

TYPE OF SAMPLE: Gravel

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES										
				Weight	Sn	As	Pb	Cu	Pb	Zn	Cr	Sa Dist %		
10541	1800 E	700 N	Pit Depth 1.1 - 0.85m Fraction +6.81	0.87										0.01
			+5.1	4.60	NES	-	-	25	<10	20	0.1	0.04		
			g.g. brown clay & sandy matrix and equigrained quartz as "floaters"	+13.5	33.39	30	<10	20	10	<10	30	0.5	1.96	
			+2.48	26.98	<10	<10	20	20	10	20	0.1	0.26		
			+1.0	62.64	20	<10	20	20	30	20	0.3	2.44		
			+0.5	29.52	20	<10	20	30	30	40	0.3	1.15		
(Au in -0.5 fraction <0.01 ppm)			Bulk 28 ppm Sn	-0.5	1609.3	30	<10	30	20	30	40	0.3	74.14	
10545	1800 E	700 N	Pit depth 0.85 - 0.5m Fraction +6.81	167.9										1.31
			+5.1	521.0	<10	<10	<10	<5	<10	<10	<0.1	4.06		
			gray quartz gravel & average size of 5mm with minor sand	+13.5	1070.02	<10	<10	10	<5	<10	<10	<0.1	8.35	
			+2.48	1136.65	<10	<10	<10	<5	<10	<10	<0.1	8.26		
			+1.0	488.92	<10	<10	<10	<5	<10	<10	<0.1	3.82		
			+0.5	114.08	20	<10	10	25	<10	10	0.1	3.56		
(Au in -0.5 fraction <0.01 ppm)			Bulk 16 ppm Sn	-0.5	798.3	60	<10	20	20	<10	120	0.8	70.04	
10546	1800 E	700 N	Pit depth 0.5m - 0.2m Fraction +6.81	11.65										0.13
			+5.1	55.79	<10	<10	10	<5	<10	<10	<0.1	0.62		
			gale brown to tan clayey sand with minor gravels	+13.5	112.97	<10	<10	<10	<5	<10	<10	<0.1	1.25	
			+2.48	190.64	<10	<10	10	<5	<10	<10	<0.1	2.12		
			+1.0	310.80	<10	<10	<10	<5	<10	<10	<0.1	5.67		
			+0.5	277.86	10	<10	<10	<5	<10	<10	0.1	6.21		
(Au in -0.5 fraction <0.01 ppm)			0.1 - 0.0m humus	+0.5	277.86	10	<10	<10	<5	<10	<10	0.1	6.21	
			Bulk 23 ppm Sn	-0.5	756.70	50	<10	20	<5	<10	20	0.6	84.0	

5 cm

**GOLD FIELDS EXPLORATION PTY. LTD.**

**SAMPLE RECORD AND ANALYTICAL DATA SHEET**

COLLECTED BY: PK

PROJECT: EL 2/63

PROSPECT: Alfred River

SAMPLE STORAGE REQ'D:

LABORATORY: Remison

DATE DISPATCHED: March 85

1:250,000 SHEET:

TYPE OF SAMPLE: Gravel

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	Weight	ANALYSES								Sn Dst %	
					Sn	As	NO <sub>2</sub>	Cu	Pb	Zn	Cr	Sn		
10542	1800 E	500 N	Pit Depth 1.25 - 1.0 m Fraction +63	123.3										0.08
			+5.1	5503	20	<10	20	10	10	10	10	0.2		0.15
			+3.5	76.09	190	<10	10	10	<10	10	<0.1			1.97
			Clay lobbles in fine grained sandy matrix of quartz and +2.48	2.03	20	<10	10	<5	<10	10	<0.1			0.01
			+1.0	154.42	220	<10	10	<5	<10	20	1.0			4.63
			(Au in -0.5 fraction <0.01 ppm) +0.50	180.86	280	<10	20	<5	<10	40	7.5			6.89
			Bulk 689 ppm -0.5	476.5	1330	<10	20	30	50	70	2.9			36.27
10543	1800 E	500 N	Pit Depth 1.0 - 0.7 m											
			grey ss cobble ± quartz gravel + sand		85	<10	10	<5	10	<10	0.6			
10544	1800 E	500 N	Pit Depth 0.7 m - 0.25 m Fraction +63	48.84										0.10
			+5.1	184.98	110	<10	10	20	<10	<10	0.2			7.90
			+3.5	398.30	10	<10	10	<5	<10	<10	0.3			1.55
			+2.48	494.41	<10	<10	<10	<5	<10	<10	0.3			0.96
			+1.0	347.29	10	<10	<10	5	<10	<10	0.5			1.35
			(Au in -0.5 fraction <0.01 ppm) +0.5	284.95	90	<10	10	<5	<10	<10	1.4			7.97
			Bulk 81 ppm Sn +0.5	1436.4	140	<10	20	5	<10	10	0.8			78.17

5 cm

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**GOLD FIELDS EXPLORATION PTY. LTD.**

**SAMPLE RECORD AND ANALYTICAL DATA SHEET**

COLLECTED BY: *P. Kempster*

PROJECT: *EL 2/63*

PROSPECT: *Alfred River*

SAMPLE STORAGE REQ'D:

LABORATORY: *Remison*

DATE DISPATCHED: *March 85*

1:250,000 SHEET:

TYPE OF SAMPLE: *Gravel*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	weight	ANALYSES								Sn Dist. %			
					Sn	As	W <sub>0</sub>	Co	Pb	Zn	Cr	%				
10538	1800E	300N	Pit depth 0.65 - 0.3m Fraction 468	590.09										242		
			+511	731.02	10	<10	10	<5	<10	<10	0.2	6.00				
			Clean quartz gravel			+3.5	1065.05	10	<10	10	<5	<10	<10	<0.1	8.74	
			(average 5mm diam) and minor sand			+2.48	1125.3	10	<10	<10	<5	<10	<10	<0.1	9.24	
			(0.3 - 0.0 mm)			+1	171.19	<10	<10	<10	<5	<10	<10	<0.1	0.73	
(Au in -0.5 fraction <0.01)			Bulk 278ppm Sn	-0.5	307.1	260	<10	20	20	<10	70	1.2	65.52			
10539	1800E	500N	Pit depth 1.75 - 1.25m Fraction 158	0.25	N.E.S.								0.4	0.01		
			+3.5	0.37	N.E.S.									0.2	0.01	
			Grey clay			+2.48	0.88	N.E.S.							0.4	0.01
			+1.0	2.30	N.E.S.				45	<10	60	0.6	0.05			
			+0.5	3.72	N.E.S.				35	<10	60	1.7	0.09			
			Bulk 97 ppm Sn	-0.5	218.53	100	<10	30	25	<10	70	0.3	99.83			
10540	1800E	500N	Pit 1.55m Fraction 681	4.56										0.20		
			Fine gravel layer with			+51	3.88	N.E.S.			10	<10	10	0.1	0.12	
			clay (contains chromite)			+3.5	9.1	N.E.S.			20	<10	20	<0.1	0.42	
			+2.48	12.79	N.E.S.				15	<10	10	0.1	0.57			
			+1.0	25.96	<10	<10	<20	15	10	20	0.1	1.19				
			+0.5	36.4	10	<10	20	15	10	30	0.6	3.29				
			Bulk 2588	-0.5	2588	40	10	20	50	30	90	0.1	94.76			

5 cm

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GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: P.K.

PROJECT: EL 2/63

PROSPECT: Alfred R

SAMPLE STORAGE REQ'D:

LABORATORY: Ronison

DATE DISPATCHED: March 85

1:250,000 SHEET

TYPE OF SAMPLE: Gravel

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES									Sn Dist %		
			Weight	Sn	As	WO <sub>3</sub>	Cu	Pb	Zn	Co	%			
10535	1800E	300N	Pit Depth 1.45m - 1.15m Fraction +6.81	197.3										0.64
			+5.1	42.74	50	<10	20	<5	<10	10	<0.1			1.38
			brown gravel, limonite rth. +3.5	86.0	20	<10	20	<5	<10	<10	<0.1			1.12
			minor clay clasts, visible +2.48	144.77	<10	<10	<10	<5	<10	<10	<0.1			0.47
			chromite +1.0	517.6	<10	<10	10	<5	<10	10	<0.1			1.68
			(As in -0.5 fraction 0.02 ppm) +0.5	462.6	30	<10	<10	<5	<10	10	<0.1			9.00
			Bulk - 73 ppm Sn -0.5	660.61	200	<10	30	<5	40	60	0.9			85.71
10536	1800E	300N	Pit Depth 1.15 - 0.85m Fraction +6.81	1455.5										3.16
			+5.1	102.92	<10	<10	10	<5	<10	10	<0.1			0.22
			cobbles of sandstone, clay, welded together with +3.5	154.21	80	<10	10	<5	<10	<10	<0.1			0.67
			+2.48	208.97	<10	<10	10	<5	<10	<10	<0.1			0.45
			fine Mn rich gravel +1.0	299.20	20	<10	<10	5	<10	<10	<0.1			1.60
			(As in -0.5 fraction <0.01 ppm) clay matrix +0.5	39.21	90	<10	<10	<5	<10	<10	1.6			13.74
			Bulk - 74 ppm Sn -0.5	867.4	210	<10	20	5	20	30	0.8			79.15
10537	1800E	300N	Pit Depth 0.85 - 0.65m Fraction +6.81	2523.7										4.13
			+5.1	93.38	20	<10	10	<5	<10	<10	0.1			0.28
			+3.5	91.17	<10	<10	<10	<5	<10	<10	<0.1			0.15
			fine cobbles - sandstone rich +2.48	104.04	<10	<10	<10	<5	<10	<10	<0.1			0.17
			(As in -0.5 fraction <0.01 ppm) minor quartz gravel +1.0	112.97	10	<10	<10	<5	<10	<10	0.2			0.37
			+clay +0.5	133.40	140	<10	10	<5	<10	<10	2.6			6.47
			Bulk - 89 ppm Sn -0.5	411.0	660	10	30	15	<10	20	1.3			88.71

5 CM

**GOLD FIELDS EXPLORATION PTY. LTD.**

**SAMPLE RECORD AND ANALYTICAL DATA SHEET**

COLLECTED BY: *P.K.*

PROJECT: *EL 2/63*

PROSPECT: *Alfred River*

SAMPLE STORAGE REQ'D:

LABORATORY: *Remson*

DATE DISPATCHED: *March 85*

1:250,000 SHEET:

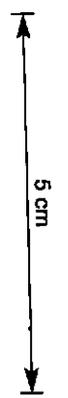
TYPE OF SAMPLE: *Gravel*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES										
				Weight	Sn	As	WO <sub>3</sub>	Cu	Pb	Zn	Cr	%		
10531	1600 E	215 N	Pit Depth 0.8-0.5m Fraction +6.81	222.42										6.65
				+5.1	108.51	<10	<10	10	<5	<10	<10	<0.1	3.24	
				+3.5	159.9	<10	<10	10	<5	<10	<10	<0.1	4.78	
				+2.48	143.39	<10	<10	10	<5	<10	<10	<0.1	4.29	
				+1.0	47.55	10	<10	20	<5	<10	<10	<0.1	2.84	
				+0.5	15.28	N.E.S.	N.E.S.	N.E.S.	10	<10	10	<0.1	0.76	
(Au in -0.5 fraction < 0.01 ppm) Bulk 19 ppm Sn				-0.5	144.6	90	<10	30	30	10	180	<0.1	77.74	
10532	1600 E	215 N	Pit Depth 0.5-0.2m Fraction +6.81	36.06										0.8
				+5.1	24.00	20	<10	10	<5	<10	30	<0.1	2.14	
				+3.5	46.27	30	<10	10	<5	<10	20	<0.1	6.19	
				+2.48	31.35	20	<10	10	<5	<10	<10	<0.1	2.79	
				+1.0	111.23	<10	<10	<10	<5	<10	10	<0.1	2.48	
				+0.5	30.47	50	<10	10	<5	<10	30	<0.1	6.79	
(Au in -0.5 fraction 0.02 ppm) Bulk 40 ppm Sn				-0.5	294.37	60	<10	20	15	<10	90	<0.1	78.80	
10533	1800 E	300 N	Pit Depth 1.65-1.55m Grey uniform clay											
						20	<10	30	<5	20	30	<0.1		
10534	1800 E	300 N	Pit Depth 1.55m-1.45m Brown gravel (Mx + limst?) with minor pebbles and clay clasts Visible cronite											
						270	<10	20	<5	20	60	0.6		





025

**GOLD FIELDS EXPLORATION PTY. LTD.**

**SAMPLE RECORD AND ANALYTICAL DATA SHEET**

COLLECTED BY: P. Konyshen

PROJECT: EL 2/63

PROSPECT: Alfred River

SAMPLE STORAGE REQ'D:

LABORATORY: Remison

DATE DISPATCHED: Feb 85

1:250,000 SHEET:

TYPE OF SAMPLE: Gravels

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES								SA Distrib			
				Weight	Sn	As	WO <sub>2</sub>	Cu	Pb	Zn	Cr-%	%			
10525	1600 E	400 N	Pit Depth 2.5 - 2.0m	Fraction +6.61	469.9										0.27
				" +5.1	96.15	20	30	30	20	<10	60	0.3	0.22		
				" +3.5	137.88	<10	<10	40	25	<10	30	<0.1	0.10		
			large blds of weathered granite shale, weathered sandstone,	" +2.48	150.20	10	<10	20	15	<10	20	0.1	0.18		
				" +1	314.69	30	<10	20	5	<10	20	0.3	1.10		
			with cronite sand matrix	" +0.5	362.87	190	20	20	15	<10	30	5.0	8.08		
			Bulk 212 ppm Cu	-0.5	1200.2	640	30	50	60	<10	170	3.1	90.05		
10526	1600 E	400 N	Pit Depth 2.0 - 1.5m	Fraction +6.81	411.83										0.92
				Fraction +5.1	100.91	<10	10	20	30	<10	30	0.3	0.22		
				" +3.5	157.43	10	<10	20	20	<10	40	<0.1	0.70		
			As above	" +2.48	250.53	10	<10	20	15	<10	30	<0.1	1.12		
				" +1	51.49	70	<10	30	20	<10	30	1.6	0.23		
			(Au in -0.5 fraction <0.01ppm)	" +0.5	328.51	170	20	30	20	<10	40	10.7	10.24		
			Bulk 607 ppm Cu	" -0.5	1143.00	1210	40	60	60	<10	160	5.4	86.57		
10527	1600 E	400 N	Pit Depth 1.5 - 1.0m	Fraction +6.81	261.07										0.09
				+5.1	140.16	30	30	40	30	30	60	0.9	0.29		
				+3.5	154.05	10	20	30	35	10	60	0.1	0.11		
			As above	+2.48	209.30	20	10	20	30	10	40	<0.1	0.29		
				+1.0	294.74	60	10	40	30	10	40	1.8	1.24		
			(Au in -0.5 fraction <0.01ppm)	+0.5	372.85	220	<10	30	25	<10	40	8.0	5.74		
			Bulk 552 ppm Cu	-0.5	1155.80	1140	20	70	80	70	200	6.9	92.23		

5 cm

161026



027

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: *R. Brock*

PROJECT: E17/77

PROSPECT: *alfed river*

SAMPLE STORAGE REQ'D:

LABORATORY: *Antlabs*

DATE DISPATCHED:

1:250,000 SHEET:

TYPE OF SAMPLE: *5107  
Rock*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED: *Feb 85*

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES							
			Sn	As	Cu	Pb	Zn			
		<i>400 East line</i>								
15201	1000N	<i>400E</i> .6 light grey/tan clayey w/rock	23	22	10	60	50			
15202	975N	- 2.0 20 above + tan/brown silt.	23	22	15	35	40			
15203	950N	- 1.3 light grey/tan sandy w/rock	23	4	20	95	55			
15204	925N	- .8 dk grey w/rock	23	16	35	75	90			
15205	900N	- Rock chip in creek	23	10	25	35	175			
15206	875N	- 2.0 grey w/rock, under tan clays	23	9	25	40	55			
15207	850N	- 1.4 light tan clayey w/rock	23	15	30	35	55			
15208	825N	- 1.4 tan clayey w/rock with gink large	23	7	25	150	40			
15209	800N	- 2.1 . . . . .	23	22	35	65	110			
15210	775N	- 1.9 . . . . .	23	7	30	70	90			
15211	750N	- Rock chip in creek	4	7	20	35	90			
15212	725N	- 1.5 buff/tan clayey w/rock	23	9	25	65	50			
15213	700N	- 1.4 light tan clayey w/rock	5	4	25	105	50			
15214	675N	- 2.0 . . . . .	23	10	25	80	40			
15215	650N	- 2.5 . . . . .	23	13	40	80	40			
15216	625N	- 1.5 light tan/grey . . . . .	23	10	25	45	40			
15217	600N	- 2.1 . . . . .	23	22	25	45	45			

5 cm

161028

GOLD FIELDS EXPLORATION PTY. LTD

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: *P. J. ...*  
 DATE DISPATCHED:  
 DATE RECEIVED: Feb 1985

PROJECT: EL 17/77

PROSPECT: *Alfred River*

SAMPLE STORAGE REQ'D:

LABORATORY: *Analytical*

1:250,000 SHEET:

TYPE OF SAMPLE: *Gravel*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	Cu	Pb	Zn			
			<i>600 East line</i>								
15218	400N	<i>600N</i>	15 light tan/grey clayey w/rock	23	22	25	75	60			
15219	425N	-	2.2 . . . . .	23	14	35	40	45			
15220	450N	-	2.7 . . . clayey w/rock	23	16	35	120	50			
15221	475N	-	1.0 dark grey + tan clayey w/rock	23	11	45	60	135			
15222	500N	-	.4 dark grey w/rock + fine me.	23	15	35	85	120			
15223	525N	-	1.6 tan clayey w/rock	23	13	25	55	70			
15224	550N	-	1.4 . . . / brown . . . . .	23	11	35	190	50			
15225	575N	-	3.0 . . . w/rock with mason tinge	23	22	30	115	40			
15226	600N	-	.7 grey/brown w/rock	23	3	35	75	130			
15227	625N	-	1.6 tan/grey w/rock + mason tinge	23	11	30	40	40			
15228	650N	-	Rock chip	23	10	35	50	135			
15229	675N	-	1.4 grey w/rock	23	22	40	115	85			
15230	700N	-	Rock chip	23	4	50	40	120			
15231	725N	-	2.1 tan clayey w/rock	23	22	25	30	45			
15232	750N	-	1.4 . . . . .	23	21	30	50	70			
15233	775N	-	2.3 . . . . . + dark brown section	23	26	35	65	60			
15234	800N	-	3.2 . . . . .	23	21	30	45	70			
15235	825N	-	1.4 fawn/grey clayey w/rock	23	22	30	65	50			
15236	850N	-	2.3 tan clayey w/rock with mason tinge	23	7	35	20	35			
15237	875N	-	2.0 tan brown clayey w/rock	23	16	30	40	60			

5 cm

**GOLD FIELDS EXPLORATION PTY. LTD.**

**SAMPLE RECORD AND ANALYTICAL DATA SHEET**

COLLECTED BY: *Boak*

PROJECT: EL 17/77  
1:250,000 SHEET

PROSPECT: *Rocky River Gnd*  
TYPE OF SAMPLE:

SAMPLE STORAGE REQ'D:  
SAMPLE PREP. REQ'D:

LABORATORY: *Anabas*  
ANALYSIS REQ'D:

DATE DISPATCHED:  
DATE RECEIVED: *Feb 1985*

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES				
				Si	As	Cu	Pb	Zn
15238	900N	600E	1.7 tan/brown clayey w/ptk.	7	4	25	30	50
15239	925N	600E	1.4 "	43	4	35	50	60
15240	930N	600E	2.6 grey - light tan clayey w/ptk.	43	42	35	40	65
15241	975N	600E	2.6 "	43	17	50	20	65
15242	1000N	600E	1.8 dirty grey/brown clayey w/ptk.	43	18	30	20	65
<i>800 East line</i>								
15243	1000N	800E	2.8 light tan clayey w/ptk.	3	6	35	25	85
15244	975E	"	1.6 "	43	5	35	65	60
15245	950E	"	1.8 "	43	9	40	200	105
15246	925E	"	2.4 grey clayey w/ptk with tan clg.	43	11	40	25	85
15247	900E	"	1.6 "	43	42	25	20	90
15248	875E	"	1.0 grey clayey w/ptk.	43	4	45	125	150
15249	850E	"	2.3 grey & light tan clayey w/ptk.	43	7	35	30	65
15250	825E	"	2.0 tan clay w/ptk.	3	42	25	80	60
15251	800E	"	1.7 "	7	5	30	25	55
15252	775E	"	1.3 tan/grey clayey w/ptk.	43	7	50	20	165
15253	750E	"	Rock chip	40	42	40	20	125
15254	725E	"	2.6 tan clayey w/ptk.	7	6	30	35	50

5 cm

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY *John*

PROJECT: 17 177

PROSPECT: *Alfred River*

SAMPLE STORAGE REQ'D:

LABORATORY: *Analabs*

DATE DISPATCHED:

1:250,000 SHEET:

TYPE OF SAMPLE:

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED: Feb '85

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES								
				Si	Al	Ca	Pb	Zn				
15255	700N	800E	1.5 tan clay w/ptak.	<3	11	35	105	95				
15256	675N	-	1.5 tan / light brown clay w/ptak.	<3	11	35	30	60				
15257	650N	-	2.6 - - - -	<3	<2	35	55	70				
15258	625N	-	2.7 - - - -	<3	18	40	60	100				
15259	600N	-	1.4 tan / brown grey clay w/ptak.	<3	8	35	105	60				
15260	575N	-	.7 grey w/ptak.	<3	5	35	40	195				
15261	550N	-	.9 fawn / light brown.	<3	10	20	25	65				
15262	525N	-	1.6 tan / light grey w/ptak + mica	<3	7	30	50	75				
15263	500N	-	1.3 grey w/ptak.	<3	12	35	40	240				
15264	475N	-	.8 - - - -	<3	14	45	50	395				
15265	450N	-	2.5 light tan / brown clay w/ptak.	<3	<2	35	35	30				
15266	425N	-	2.5 tan clay w/ptak.	4	7	25	25	55				
15267	400N	-	2.7 tan / buff w/ptak.	3	<2	35	45	60				
1000 East line												
15268	200N	1000E	2.8 fawn clay w/ptak.	<3	10	35	35	70				
15269	225N	-	1.7 - - - -	<3	16	35	30	80				
15270	250N	-	2.4 - - - -	<3	12	35	25	55				
15271	275N	-	3.4 grey clay w/ptak, tan w/ptak.	<3	<2	30	20	60				
15272	300N	-	.6 - - - -	<3	15	35	20	120				

5 cm

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: *Pollack*

PROJECT: EL 17/77

PROSPECT: *Alfred River*

SAMPLE STORAGE REQ'D:

LABORATORY: *Anabols*

DATE DISPATCHED:

1:250,000 SHEET:

TYPE OF SAMPLE: *Block*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED: *Feb '85*

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES				
				Sn	As	Cu	Pb	Zn
15273	325N	1000L	2.4 grey w/rocks + tan clayey w/rocks	23	3	40	45	65
15274	350N	-	3-6 light tan clay	23	9	40	35	55
15275	375N	-	1.5	6	14	35	15	75
15276	400N	-	1.6 grey w/rocks under light tan clay	23	8	35	40	85
15277	425N	-	1.6 tan grey w/rocks	23	16	35	40	65
15278	450N	-	1.4	5	9	30	20	90
15279	475N	-	Rock chip	23	11	30	10	145
15280	500N	-	2.0 tan/brown clayey w/rocks	23	11	40	40	65
15281	525N	-	2.2	23	22	35	30	75
15282	550N	-	1.5 tan/grey clayey w/rocks	23	9	35	25	60
15283	575N	-	1.7 grey w/rocks under deep tan/grey clay	23	4	65	75	60
15284	600N	-	1.0	23	17	30	35	65
15285	625N	-	4.5	23	10	30	30	55
15286	650N	-	2.6	23	13	30	110	60
15287	675N	-	2.3	23	3	30	120	55
15288	700N	-	2.4	23	22	40	50	60
15289	725N	-	2.6	23	4	45	45	55
15290	750N	-	1.7 grey clayey w/rocks under tan clay	7	13	60	45	115
15291	775N	-	Rock chip	10	11	30	20	120
15292	800N	-	2.1 light grey/brown clay w/rocks under light tan clay	5	12	25	35	65
15293	825N	-	1.0	4	3	30	45	85

5 cm

032

**GOLD FIELDS EXPLORATION PTY. LTD.**

**SAMPLE RECORD AND ANALYTICAL DATA SHEET**

PROJECT: EL 17177  
1:250,000 SHEET:

PROSPECT: *Alfred River*  
TYPE OF SAMPLE: *Drab.*

SAMPLE STORAGE REQ'D:  
SAMPLE PREP. REQ'D:

LABORATORY: *Analabs*  
ANALYSIS REQ'D:

COLLECTED: *P. J. ...*  
DATE DISPATCHED:  
DATE RECEIVED: *Feb 85*

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	Cu	Pb	Zn			
15294	850N	1000E.	1.4 light tan clayey siltstone & clay.	23	6	35	50	55			
15295	875N	-	2.4 - - - - -	23	11	30	45	70			
15296	900N	-	2.3 - - - - -	23	10	40	25	95			
15297	925N	-	2.0 - - - - -	23	13	40	25	90			
15298	950N	-	2.2 grey tan / brown clayey siltstone.	23	9	35	45	85			
15299	975N	-	2.0 grey clayey siltstone, under grey / black clay.	23	12	40	45	80			
15300	1000N	-	1.6 - - - - -	3	3	30	45	65			
<i>1200 East line</i>											
15301	1000N	1200E.	2.6 tan clayey siltstone & tan clay.	23	18	40	60	50			
15302	975N	-	3.0 - - - - -	23	22	40	25	60			
15303	950N	-	1.6 dirty grey clayey siltstone, under tan clay.	23	4	25	45	55			
15304	925N	-	2.5 grey siltstone	23	9	45	45	90			
15305	900N	-	2.0 dirty grey / brown clayey siltstone	23	2	25	35	85			
15306	875N	-	1.8 - - - - -	23	4	20	55	75			
15307	850N	-	1.5 light tan clayey siltstone under tan clay.	23	22	35	30	45			
15308	825N	-	2.0 - - - - - grey clayey siltstone.	23	12	30	30	55			
15309	800N	-	2.1 - - - - -	23	2	30	35	75			
15310	775N	-	2.0 light tan clayey siltstone under tan / black clay.	23	22	30	25	70			
15311	750N	-	2.1 - - - - - grey clay.	23	4	30	65	10			

5 cm

161033

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED *Prock*

PROJECT: EL 17/77

PROSPECT: *Alfred River*

SAMPLE STORAGE REQ'D:

LABORATORY: *Analabs*

DATE DISPATCHED: Feb 85

1:250,000 SHEET:

TYPE OF SAMPLE: *Chc*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED: "

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES				
				Sn	As	Cu	Pb	Zn
15312	725N	1000E.	2.5 light tan clay w/rocks under grey clay.	43	15	35	25	65
15313	700N	-	2.3 - - - - -	3	15	40	30	75
15314	675N	-	3.5 - - - grey w/rocks	43	22	30	55	75
15315	650N	-	1.9 light tan clay w/rocks + grey rock fragments	43	10	30	70	85
15316	625N	-	1.7 dirty tan/grey clay w/rocks	43	7	25	55	75
15317	600N	-	.6 grey w/rocks	4	2	30	40	110
15318	575N	-	2.8 - - -	43	7	35	25	125
15319	550N	-	1.5 - - - clay w/rocks	4	22	15	35	85
15320	525N	-	1.5 light tan grey w/rocks	43	11	25	25	65
15321	500N	-	1.7 grey w/rocks under tan/grey clay	43	17	25	30	55
15322	475N	-	1.7 dirty grey/tan w/rocks	43	6	25	30	55
15323	450N	-	1.9 tan/grey w/rocks	43	11	25	35	50
15324	425N	-	Rock chip	43	6	30	25	150
15325	400N	-	.4 grey w/rocks	43	22	35	60	200
15326	375N	-	1.7 tan w/rocks under tan/grey clay	43	11	25	70	60
15327	350N	-	1.3 dirty grey w/rocks under tan clay	43	16	25	60	45
15328	325N	-	2.0 light tan w/rocks under tan clay	2	14	25	50	55
15329	300N	-	1.5 Buff sandy clay	43	8	10	55	60
15330	275N	-	2.3 light tan clay w/rocks	43	10	35	40	60
15331	250N	-	1.3 grey w/rocks under buff clay	43	9	25	25	60
15332	225N	-	1.9 light tan/grey clay w/rocks	43	17	35	25	60

5 cm

034

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: EL 1777

PROSPECT: *Alfred River*

SAMPLE STORAGE REQ'D:

LABORATORY: *Anelabs*

COLLECTED: *Reck*

1:250,000 SHEET:

TYPE OF SAMPLE: *Grid*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE DISPATCHED:

DATE RECEIVED: *Feb '85*

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Si	As	Co	Pb	Zn			
15333	200N	1200E	grey w/rocks under olive/buff clays	23	13	50	30	80			
<i>1400 Ead. line.</i>											
15334	200N	1400E	1.8 grey w/rocks under grey/buff clays	23	22	55	30	70			
15335	225N	-	1.6 - - - - - black clays	23	7	45	35	90			
15336	250N	-	1.6 - - - - -	23	6	35	35	110			
15337	275N	-	1.8 - - - - - grey clays	23	8	35	25	100			
15338	300N	-	1.2 grey w/rocks + grey clays	2	7	20	25	95			
15339	325N	-	1.2 - - - - -	23	7	30	25	140			
15340	350N	-	Red clay	23	3	35	30	80			
15341	375N	-	1.2 grey w/rocks	23	11	20	25	75			
15342	400N	-	2.1 tan grey w/rocks	23	5	45	20	45			
15343	425N	-	3.0 light tan clay w/rocks under quartz gravel	23	10	15	25	30			
15344	450N	-	5.2 - - - - -	23	7	25	10	25			
15345	475N	-	5.6 - grey clay w/rocks	2	22	30	30	35			
15346	500N	-	2.6 - - - - -	43	6	60	25	160			
15347	525N	-	2.8 - - - - -	23	22	5	25	10			
15348	550N	-	3.4 - - - - -	23	11	60	15	90			
15349	575N	-	1.8 - - - - -	23	10	20	25	65			
15350	600N	-	6.0 light tan clay w/rocks	23	8	45	25	15			

5 cm

161035

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY *[Signature]*

PROJECT: EL 17/77

PROSPECT: *Alfred Lewis*

SAMPLE STORAGE REQ'D:

LABORATORY: Analabs

DATE DISPATCHED:

1:250,000 SHEET:

TYPE OF SAMPLE: *Grd*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED: Feb '85

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES				
			Sn	As	Cu	Pb	Zn
15351	625N	1400E. 4 <sup>5</sup> light tan clay w/pebbles under fault	13	22	10	25	15
15352	650N	3.4 grey w/pebbles under fault	2	5	40	35	105
15353	675N	3.7 light tan / grey clay w/pebbles	23	11	15	15	20
15354	700N	5.2 grey/brown clay w/pebbles under fault	23	18	20	10	25
15355	725N	2.9 light tan clay w/pebbles	23	14	25	25	20
15356	750N	1.8 tan clay w/pebbles	3	25	35	30	40
15357	775N	1.8 grey	11	11	25	5	45
15358	800N	.6	3	22	30	20	175
15359	825N	Rock chip	23	16	25	30	155
15360	850N	2.6 light tan clay w/pebbles under fault	22	5	35	25	65
15361	875N	2.0 grey w/pebbles under grey brown clay	23	3	30	20	130
15362	900N	2.2 grey clay w/pebbles	23	6	40	65	210
15363	925N	1.6	23	5	25	20	100
15364	950N	3.0 buff/grey clay w/pebbles	23	4	35	40	50
15365	975N	1.6 grey w/pebbles under tan grey clay	23	7	25	40	70
15366	1000N	2.1 light tan clay w/pebbles & chips	23	22	30	25	60
1600 East line							
15367	1000N	1600E. 13 light tan/grey clay w/pebbles	23	6	35	15	40
15368	975N	1.7	23	11	35	20	50

5 cm

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: EL 1777  
1:250,000 SHEET:

PROSPECT: *Alfred Kuan  
Gold*  
TYPE OF SAMPLE:

SAMPLE STORAGE REQ'D:  
SAMPLE PREP. REQ'D:

LABORATORY: *Analytical*  
ANALYSIS REQ'D:

COLLECTED BY: *P. ROCK*  
DATE DISPATCHED:  
DATE RECEIVED: *Feb 85*

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Si	Al	Ca	Pb	Zn			
15369	950N	1600E	1.6 light tan grey clay w/peck.	<3	21	40	<5	55			
15370	925N	-	2.3 - - - - -	<3	10	20	20	60			
15371	900N	-	2.5 tan/brown clay w/peck	<3	16	35	35	45			
15372	875N	-	1.5 - - - - -	<3	16	25	15	55			
15373	850N	-	2.4 - - - - -	<3	16	25	10	55			
15374	825N	-	Rock chip.	10	9	40	20	140			
15375	800N	-	3.2 light tan grey clay w/peck.	<3	2	30	25	40			
15376	775N	-	3.7 grey w/peck with tan grey clay & gravel.	8	22	25	15	40			
15377	750N	-	2.5 - - - - -	3	9	25	15	40			
15378	725N	-	2.6 - - - - -	<3	8	25	5	25			
15379	700N	-	1.6 - - - - -	12	5	20	5	45			
15380	675N	-	2.3 buff clay w/peck and buff/black clay	<3	16	25	15	45			
15381	650N	-	2.1 tan clay w/peck.	3	10	35	15	35			
15382	625N	-	1.3 tan grey w/peck under gravel.	<3	9	15	30	45			
15383	600N	-	3.3 tan w/peck and tan clay & gravel.	9	16	25	20	35			
15384	575N	-	2.3 light tan w/peck under tan clay & gravel.	3	10	30	50	45			
15385	550N	-	2.3 dirty grey w/peck under gravel	7	9	20	40	50			
15386	525N	-	1.6 grey w/peck under gravel.	<3	16	25	70	45			
15387	500N	-	1.0 - - - - -	44	24	35	50	165			
15388	475N	-	1.9 - - - - -	8	8	15	45	95			
15389	450N	-	1.4 - - - - - clay	12	9	30	60	250			

5 cm





**GOLD FIELDS EXPLORATION PTY. LTD.**

**SAMPLE RECORD AND ANALYTICAL DATA SHEET**

PROJECT: EL 17/77

PROSPECT: *Alfred River*

SAMPLE STORAGE REQ'D:

LABORATORY: *Analabs*

COLLECTED: *P. TOOK*

1:250,000 SHEET:

TYPE OF SAMPLE: *grid.*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE DISPATCHED:

DATE RECEIVED: *Feb '85*

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES						
				Sn	As	Cu	Pb	Zn		
15429	775N	1800E	5.5 tan/grey w/rock under clays	7	11	20	20	20		
15430	800N	-	2.4 - - -	<3	10	20	10	35		
NOTE: - 1800E line from 200N to 800N have some form of gravel cover.										
15431	825N	1800E	2.8 light grey w/rock under tan clay	3	21	30	35	45		
15432	850N	-	1.3 - - -	3	<2	40	45	70		
15433	875N	-	2.8 tan/grey w/rock	<3	<2	10	15	10		
15434	900N	-	1.4 - - - clay	<3	15	25	40	55		
15435	925N	-	1.8 - - - clay w/rock	4	10	25	35	40		
15436	950N	-	1.9 tan w/rock under tan clay	3	<2	40	45	65		
15437	975N	-	2.1 - grey - - -	4	<2	45	30	55		
15438	1000N	-	3.1 tan w/rock - - -	<3	9	35	40	45		
<del>2000E east line</del>										
15439	200N	2000E	3.5 grey w/rock	<3	<2	70	35	110		
15440	225N	-	2.5 dark tan/grey w/rock under tan clay	3	<2	50	35	70		
15441	250N	-	8.1 tan/grey w/rock under tan gritty gravel	5	<2	50	35	115		
15442	275N	-	13.0-15% of sample grey w/rock - 85% tan clay gravel	13	<2	25	70	70		
15443	300N	-	12.5 tan gritty clay gravel? - mineralisation?	<3	<2	20	35	50		
15444	325N	-	13.0 grey w/rock under tan/grey clay gravel	<3	<2	20	15	80		
15445	350N	-	9.8 - - -	35	<2	10	10	115		
15446	375N	-	10.7 20% grey w/rock - 80% tan clay gravel	54	<2	20	25	135		

5 cm

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY *P. Beck*

PROJECT: EL 1777

PROSPECT: *Alfred River*

SAMPLE STORAGE REQ'D:

LABORATORY: *Analabs*

DATE DISPATCHED:

1:250,000 SHEET:

TYPE OF SAMPLE: *Gravel*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED: *Feb '53*

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES				
				Sn	As	Cu	Pb	Zn
15447	400N	<i>200m</i>	<i>7</i> grey w/rock under	24	<2	50	30	120
15448	400N	-	tan/brown gully clayey gravel	24	<2	20	20	145
15449	425N	-	<i>9.7</i>	65	<2	5	10	100
15450	425N	-	at top of blue/grey w/rock	19	<2	25	30	80
15451	450N	-	<i>6.2</i> grey w/rock under grey clay gravel	17	<2	25	25	60
15452	475N	-	<i>5.5</i>	10	<2	30	35	135
15453	500N	-	<i>5.1</i> tan/grey	<3	<2	20	40	35
15454	525N	-	<i>3.9</i> light tan/grey w/rock under grey clay gravel	<3	<2	60	175	70
15455	550N	-	<i>2.3</i> grey w/rock & grey clay	4	12	40	50	45
15456	575N	-	<i>1.7</i> under gravel	<3	<2	10	15	15
15457	600N	-	<i>1.4</i> grey/white w/rock under gravel	<3	<2	5	15	40
15458	625N	-	<i>.7</i> grey w/rock under grey gravel	<3	8	50	35	100
15459	650N	-	<i>1.7</i> light grey/buff clay w/rock under gravel finish of gravel conc.	4	<2	30	35	45
15460	675N	-	<i>2.3</i> orange/grey clayey w/rock	<3	<2	20	30	35
15461	700N	-	<i>1.2</i> tan/grey clay w/rock	<3	14	15	20	60
15462	725N	-	<i>2.7</i>	<3	5	30	25	40
15463	750N	-	<i>2.6</i> / cream	7	6	30	15	40
15464	775N	-	<i>1.9</i> tan/grey w/rock under tan clay	<3	<2	20	60	55
15465	800N	-	<i>2.8</i>	<3	3	30	35	75

5 cm

041

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY *P. Rock*

PROJECT: EL 17 177  
1:250,000 SHEET

PROSPECT: *Alfred River*  
TYPE OF SAMPLE: *Grill*

LABORATORY: *Analabs*  
ANALYSIS REQ'D:

DATE DISPATCHED:  
DATE RECEIVED: *Feb '85*

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES				
			Sn	As	Cu	Pb	Zn
15466	825N	200k. tan clay w/rock.	4	5	25	30	50
15467	850N	- 33 grey/tan sandy clay w/rock.	4	30	90	55	85
15468	875N	- Rock chip.	<3	7	30	30	200
15469	900N	- 9 grey w/rock.	5	4	30	35	140
15470	925N	- 1.3 tan/grey	4	5	30	35	70
15471	950N	- 1.9 dirty tan/grey w/rock under tan clay.	5	<2	30	30	40
15472	975N	- 2.4 tan/grey clay w/rock.	6	5	30	30	50
15473	1000N	- 2.5	<3	<2	30	55	60
15474	1025N	- 2.1 grey w/rock under tan/grey clay.	3	<2	40	55	55
15475	1050N	- 2.3 tan w/rock.	3	4	25	20	40
15476	1075N	- 2.8 tan w/rock under light tan clay.	<3	<2	45	45	30
15477	1100N	- 2.1 grey w/rock.	<3	<2	35	35	95
<del>18000 Lead line.</del>							
15478	1025N	1800k. 1.9 tan w/rock under tan clay, gravel.	<3	6	35	45	90
15479	1050N	- Rock chip.	<3	8	50	70	190
15480	1075N	- 2.5 tan/grey w/rock under tan/grey clay.	6	3	25	30	55
15481	1100N	- 4.0	5	<2	30	30	90
15482	1125N	- 1.9 tan w/rock under tan clay.	9	<2	20	20	40
15483	1150N	- 2.8	4	4	30	30	45

5 cm

161042

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY

*Forster*

PROJECT: EL 17/177  
1:250,000 SHEET

PROSPECT: *Alpha Quarry*  
TYPE OF SAMPLE: *Gravel*

SAMPLE STORAGE REQ'D:  
SAMPLE PREP. REQ'D:

LABORATORY: Analabs  
ANALYSIS REQ'D:

DATE DISPATCHED:

DATE RECEIVED: Feb '85

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES				
			Sn	As	Cu	Pb	Zn
15484	1175 N	Wood. 2.1 light tan soft rock under tan clay gravel.	3	5	25	20	45
15485	1200 N	2.7 - - - - -	<3	5	30	20	45
15486	1225 N	1.1 tan soft rock under grey clay gravel.	3	<2	15	15	50
15487	1250 N	1.7 Buff/grey clay soft rock.	<3	<2	25	10	40
15488	1275 N	5.2 tan soft rock under clay.	4	<2	25	30	35
15489	1300 N	5.1 - - - - -	3	<2	20	10	25
<i>16000' at line</i>							
15490	1025 N	1600 E 1.4 tan soft rock under grey clay.	<3	<2	40	35	60
15491	1050 N	2.8 light tan soft rock - tan clay	<3	<2	30	30	55
15492	1075 N	Rock chip	<3	<2	35	15	115
15493	1100 N	2.4 Orange/tan soft rock under tan clay	<3	<2	50	30	70
15494	1125 N	1.7 tan soft rock - tan clay	<3	4	35	40	45
15495	1150 N	2.5 Buff/tan clay soft rock.	8	<2	25	25	45
15496	1175 N	Rock chip	6	5	40	30	225
15497	1200 N	1.4 Buff/tan clay soft rock.	5	<2	10	20	50
15498	1225 N	1.5 grey soft rock under tan clay	<3	<2	35	50	60
15499	1250 N	2.1 tan/grey soft rock	<3	<2	25	20	50
15500	1275 N	2.2 grey soft rock under tan clay	<3	<2	25	20	50
15501	1300 N	1.9 Buff/grey soft rock under black clay	9/10	<2	25	30	40

5 cm

043

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY *Joe Cook*  
 DATE DISPATCHED  
 DATE RECEIVED: Feb '85

PROJECT: EL 17/77

PROSPECT: *Alfred River*

SAMPLE STORAGE REQ'D:

LABORATORY: Analabs

1:250,000 SHEET:

TYPE OF SAMPLE: *Block*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE DISPATCHED:

DATE RECEIVED: Feb '85

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES					
				Si	Al	Ca	Pb	Zn	
15502	1325N	1600L	1.7 light tan w/rocks - clasp.	<3	8	25	20	35	
15503	1350N	-	1.4 - - - - -	<3	<3	25	25	60	
15504	1375N	-	Rock chip	<3	4	25	15	65	
15505	1400N	-	1.8 light tan - grey w/rocks.	<3	10	25	25	35	
15506	1425N	-	1.6 Red/Brown w/rocks under tan clay	5	<3	25	25	50	
15507	1450N	-	1.7 tan/grey w/rocks - - -	<3	3	30	20	60	
15508	1475N	-	1.6 - - - - -	<3	<3	35	15	55	
15509	1500N	-	1.5 - - - - -	4	<3	30	20	65	
15510	1520N	-	1.4 tan w/rocks - tan clay.	<3	<3	35	25	55	
<del>15500N 1400L 1.400 Lead line</del>									
15511	<del>1425N</del>	1400L	1.5 tan w/rocks under tan clay.	<3	3	35	45	25	
15512	1475N	-	1.6 light tan - - - - -	<3	12	30	20	40	
15513	1450N	-	1.7 - - - - -	<3	<2	30	30	40	
15514	1425N	-	1.5 dirty grey w/rocks under tan clay	<3	<2	25	25	50	
15515	1400N	-	Rock chip	<3	<2	35	10	90	
15516	1375N	-	2.1 dirty grey w/rocks under grey clay.	<3	15	30	30	90	
15517	1350N	-	2.6 light tan w/rocks - - -	<3	<2	20	15	55	
15518	1325N	-	Rock chip	3	<2	30	20	125	
15519	1300N	-	1.1 grey w/rocks under tan clay.	<3	<2	25	45	75	

5 cm

161044

GOLD FIELDS EXPLORATION PTY LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY *P. Rock*

PROJECT: EL 17177  
1:250,000 SHEET:

PROSPECT: *Alfred River Gold*  
TYPE OF SAMPLE: *Blacks*  
SAMPLE STORAGE REQ'D:  
SAMPLE PREP. REQ'D:

LABORATORY: *Ano labs*  
ANALYSIS REQ'D:

DATE DISPATCHED:  
DATE RECEIVED: *Feb 85*

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES				
			S <sub>2</sub>	AS	Cu	Pb	Zn
15520	1275N 1400E	2.1 dark grey w/rock, sub grey clay.	<3	<2	40	40	85
15521	1250N	1.3	<3	<2	30	25	60
15522	1225N	1.4 grey w/rock - tan grey clay.	<3	3	35	25	90
15523	1200N	1.0 grey w/rock	<3	<2	35	65	85
15524	1175N	.9	<3	<2	35	40	115
15525	1150N	1.9	<3	<2	35	30	60
15526	1125N	2.3 light tan w/rock - light tan clay	<3	<2	30	25	50
15527	1100N	2.5 grey w/rock	<3	6	70	45	80
15528	1075N	2.5 light tan	<3	7	30	25	75
15529	1050N	2.8 w/rock	<3	<2	40	30	25
15530	1025N	2.7 tan w/rock, sub tan clay.	<3	<2	65	40	60
<i>1200 East line</i>							
15531	1025N 1200E	2.1 tan w/rock, sub clay, grey gravel.	<3	<2	35	20	20
15532	1050N	2.6 grey	3	<2	25	20	30
15533	1075N	2.9 dk	<3	<2	20	35	20
15534	1100N	3.6 tan	<3	<2	30	15	20
15535	1125N	2.0	<3	10	30	30	15
15536	1150N	2.8	<3	15	40	10	65
15537	1175N	3.6 grey	<3	<2	20	25	40

5 cm

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: EL 17177  
1:250,000 SHEET:

PROSPECT: *Revised grid*  
TYPE OF SAMPLE: *Clashes*

SAMPLE STORAGE REQ'D:  
SAMPLE PREP. REQ'D:

LABORATORY: *Analabs*  
ANALYSIS REQ'D:

COLLECTED: *Revised*  
DATE DISPATCHED:  
DATE RECEIVED: *Feb '85*

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES					
				Sn	As	Cu	Pb	Zn	
15538	1200N	1200E	2-8 grey w/ pinkish white clays & <i>grey</i> <i>gran.</i>	<3	7	45	30	55	
15539	1225N	"	4-3 tan / grey w/ pinkish white tan / grey clays.	<3	<2	35	10	40	
15540	1250N	"	2-4 tan w/ pinkish & tan clays.	<3	6	35	15	50	
15541	1275N	"	1-6 <i>light</i> " " " "	<3	9	35	25	65	
15542	1300N	"	2-0 tan w/ pinkish " " " "	<3	7	35	30	45	
15543	1325N	"	2-9 " " " " <i>light</i> " " " "	<3	<2	40	45	60	
15544	1350N	"	2-7 " " " " " " " "	<3	<2	40	40	55	
15545	1375N	"	2-2 grey w/ pinkish tan w/ pinkish	<3	5	55	45	130	
15546	1400N	"	1-3 " " " " <i>dusty grey clay</i>	<3	<2	30	25	125	
15547	1425N	"	2-3 " " " " " " " "	<3	<2	40	25	85	
15548	1450N	"	1-0 " " " " " " " "	<3	<2	45	10	110	
15549	1475N	"	1-5 <i>light</i> tan w/ pinkish tan / grey clay	3	<2	35	20	50	
15550	1500N	"	2-0 grey w/ pinkish white grey clay	<3	<2	40	40	175	
15551	1525N	"	2-8 " " " " " " " "	<3	8	35	25	285	
15552	1550N	"	1-2 " " " " " " " "	<3	<2	50	40	145	
15553	1575N	"	<i>Rock clay</i>	<3	<2	40	40	580	
15554	1600N	"	" " " " " " " "	15	<2	60	35	200	
15555	1625N	"	" " " " " " " "	6	<2	40	30	125	
15556	1650N	"	1-8 <i>light</i> tan w/ pinkish	<3	<2	40	30	55	
15557	1675N	"	1-6 " " " " " " " "	<3	5	40	55	45	
15558	1700N	"	1-8 " " " " " " " "	<3	<2	45	40	45	

5 cm

**GOLD FIELDS EXPLORATION PTY. LTD. SAMPLE RECORD AND ANALYTICAL DATA SHEET**

PROJECT: EL 7/77  
1:250,000 SHEET:

PROSPECT: *Elfed, River*  
TYPE OF SAMPLE: *Rock*

SAMPLE STORAGE REQ'D:  
SAMPLE PREP. REQ'D:

LABORATORY: *Analabs*  
ANALYSIS REQ'D:

COLLECTED BY: *B. J. ...*  
DATE DISPATCHED:  
DATE RECEIVED: *Feb '85*

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES				
			Sn	As	Cu	Pb	Zn
15559	1725N	1.6 light tan specks.	43	42	35	25	55
15560	1750N	1.0 dirty grey specks.	43	42	55	45	110
15561	1775N	1.5 " " " " " "	4	5	30	30	65
15562	1800N	1.7 " " " " " "	43	5	25	20	55
15563	1825N	1.3 " " " " " "	7	7	25	20	60
15564	1850N	1.3 " " " " " "	43	42	20	20	35
15565	1875N	2.5 grey specks.	105	42	55	30	150
15566	1900N	1.3 " " " " " "	43	12	20	15	60
15567	1925N	1.5 " " " " " "	43	42	20	30	45
15568	1950N	2.0 tan grey speck.	43	42	30	60	140
15569	1975N	1.1 dirty tan specks.	43	42	30	20	75
15570	2000N	1.9 tan grey " " " "	43	42	25	20	30
15571	2025N	Rock chip.	43	42	35	25	125
15572	2045N	1.8 tan/grey specks.	43	42	20	35	60
<i>1000 East line.</i>							
15573	1750N	1000E. Rock chip.	43	42	35	25	120
15574	1725N	1.4 tan/black clay specks.	43	42	20	35	55
15575	1700N	1.3 grey speck.	43	42	25	30	75
15576	1675N	1.0 " " " " " "	43	42	45	60	80

5 cm

047

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY *P. J. Ock*

PROJECT: *EL 17/77*  
1:250,000 SHEET

PROSPECT: *Gold River*  
TYPE OF SAMPLE: *Gravel*

SAMPLE STORAGE REQ'D:  
SAMPLE PREP. REQ'D:

LABORATORY: *Ana labs*  
ANALYSIS REQ'D:

DATE DISPATCHED:  
DATE RECEIVED: *Feb 85*

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	Co	Pb	Zn			
15577	1650N	1000E	Rock chip	<3	<2	25	35	75			
15578	1625N	-	Buff/grey w/spark under clay	<3	<2	30	45	55			
15579	1600N	-	1.5 orange tan w/spark	<3	<2	40	55	50			
15580	1575N	-	1.3 light tan/gray clay w/spark	<3	<2	40	30	50			
15581	1550N	-	2.0 orange	<3	9	40	55	55			
15582	1525N	-	1.8	<3	<2	40	30	70			
15583	1500N	-	2.6 Buff gray clay w/spark	<3	5	35	25	70			
15584	1475N	-	1.2	5	5	40	30	75			
15585	1450N	-	Rock chip	4	<2	5	25	60			
15586	1425N	-		<3	4	30	40	90			
15587	1400N	-	1.6 grey w/spark	<3	<2	40	40	140			
15588	1375N	-	1.5 Orange/tan clay w/spark	<3	<2	40	40	85			
15589	1350N	-	2.0 tan/brown w/spark	<3	<2	35	35	75			
15590	1325N	-	1.5 Buff/tan clay w/spark	<3	10	30	35	70			
15591	1300N	-	2.5 tan clay w/spark under grey clay	<3	<2	30	25	80			
15592	1275N	-	2.6 light tan/brown clay w/spark	<3	<2	40	50	65			
15593	1250N	-	1.8	3	3	45	30	70			
15594	1225N	-	1.0	<3	<2	35	30	110			
15595	1200N	-	2.1 grey w/spark under tan/grey clay	<3	6	35	35	75			
15596	1175N	-	3.2 Buff/grey clay w/spark	5	<2	35	30	30			
15597	1150N	-	6.2 light khaki/green w/spark - 20% under at 2 g. w/ ip granules	18	7	15	40	30			

5 cm

161048

048

**GOLD FIELDS EXPLORATION PTY. LTD.**

**SAMPLE RECORD AND ANALYTICAL DATA SHEET**

COLLECTED BY *P. J. Cook*

PROJECT: *EL 17 177*  
1:250,000 SHEET:

PROSPECT: *Walter River*  
TYPE OF SAMPLE: *Rock*

SAMPLE STORAGE REQ'D:  
SAMPLE PREP. REQ'D:

LABORATORY: *Analabs*  
ANALYSIS REQ'D:

DATE DISPATCHED:  
DATE RECEIVED: *Feb 25*

SAMPLE NUMBER	LOCATION	DEPTH	DESCRIPTION	ANALYSES					
				Sn	As	Cu	Pb	Zn	
15598	1125N	1.00L	Grey clayey siltstone with dark brown grey quartz	47	6	20	40	30	
15599	1150N	"	3.5 light orange/tan clayey siltstone	43	23	45	40	55	
15600	1075N	"	2.8 light grey clay siltstone with clay matrix gravel	3	22	40	45	55	
15601	1050N	"	1.5 " " " " " "	43	11	35	40	65	
15602	1125N	"	1.4 " " " " " "	70	22	25	40	70	
<i>800 East line</i>									
15603	1025N	Rock	1.5 Orange/tan clayey siltstone	43	22	30	40	60	
15604	1050N	"	1.0 " " " " " "	43	11	35	40	55	
15605	1075N	"	Rock chip	10	22	35	45	155	
15606	1100N	"	1.0 grey siltstone with tan grey clays	43	22	30	50	95	
15607	1125N	"	2.0 tan/brown clayey siltstone	43	22	45	60	65	
15608	1150N	"	1.8 " Buff " " " "	43	3	35	40	45	
15609	1175N	"	1.4 light orange/tan " " " "	43	12	45	60	70	
15610	1200N	"	1.6 " " " " " "	43	22	30	60	55	
15611	1225N	"	1.4 grey siltstone with tan clays	24	3	30	65	75	
15612	1250N	"	Rock chip	43	22	20	70	55	
15613	1275N	"	1.4 tan Buff siltstone	43	22	40	55	90	
15614	1300N	"	0.5 Brown siltstone	43	22	40	50	100	
15615	1325N	"	1.8 tan " " " "	43	22	40	45	105	

5 cm

161049

049

**GOLD FIELDS EXPLORATION PTY. LTD.**

**SAMPLE RECORD AND ANALYTICAL DATA SHEET**

COLLECTED BY: *R. Stock*

PROJECT: *EL 97/77*

PROSPECT: *Alford River*

SAMPLE STORAGE REQ'D:

LABORATORY: *Analabs*

DATE DISPATCHED:

1:250,000 SHEET:

TYPE OF SAMPLE: *Chert*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED: *Feb '85*

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES								
			Sn	As	Cu	Pb	Zn				
15616	1350N	800L 1.6 tan clay w/rock.	23	22	35	30	90				
15617	1375N	- 2.2 1/2 tan clay	23	4	35	40	75				
15618	1400N	- 2.6 light tan clay	23	7	25	40	40				
15619	1425N	- 1.5 grey clay w/rock.	23	22	35	50	60				
15620	1450N	- Rock chip	3	22	40	25	90				
15621	1475N	- 1.8 tan brown clay w/rock.	23	22	30	45	75				
15622	1500N	- 1.8	23	22	30	50	40				
15623	1525N	- 1.4	4	3	30	35	50				
15624	1550N	- Rock chip	23	22	30	40	70				
15625	(1575N / 1600N)	- Rock chips mid way	23	22	25	35	120				
600 Foot line											
15626	1450N	600L 2.1 grey w/rock	23	6	35	35	135				
15627	1425N	- 1.0	37	22	30	40	95				
15628	1400N	- 2.6 with all vitals	4	7	35	55	145				
15629	1375N	- Rock chip	23	22	45	40	190				
15630	1350N	- 1.3 grey w/rock and tan grey w/rock	23	4	35	55	85				
15631	1325N	- 1.2 tan grey w/rock	23	22	25	25	40				

5 cm

161050

050

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: E-17/177

PROSPECT: *Opal River Gold*

SAMPLE STORAGE REQ'D:

LABORATORY: *Anelabs*

COLLECTED BY: *P. Hall*

1:250,000 SHEET:

TYPE OF SAMPLE: *Rock*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE DISPATCHED:

DATE RECEIVED: *Feb '85*

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	Cu	Pb	Zn			
15632	500N	600E	1.5 tan/grey clay w/rock	<3	9	30	20	60			
15633	1275N	-	1.5 " " "	<3	<2	20	20	50			
15634	1250N	-	1.2 " " "	<3	<2	15	30	50			
15635	1225N	-	Rock chip	<3	<2	30	30	175			
15636	1200N	-	.8 grey w/rock	<3	<2	35	50	185			
15637	1175N	-	Rock chip	<3	3	35	35	140			
15638	1150N	-	1.4 grey w/rock under tan/grey clay	7	<2	20	180	80			
15639	1125N	-	1.4 " " "	4	5	20	20	35			
15640	1100N	-	1.6 tan " " "	7	<2	20	40	50			
15641	1075N	-	Rock chip	17	<2	40	20	140			
15642	1050N	-	" " "	<3	9	35	35	130			
15643	1025N	-	2.4 grey w/rock	<3	<2	35	20	75			
			<p><i>NOTE: majority of rock chips taken in creek beds with no flows - mud might need to be washed off.</i></p>								

5 cm

161051

051

**APPENDIX 3**

**Petrographic Reports**

052

161053

**Central Mineralogical Services**

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39 Beulah Road  
Norwood, S.A. 5067  
Telephone 42 5659

Mr. P.A. Roberts  
Senior Regional Geologist  
Gold Fields Exploration Pty. Ltd.  
P.O. Box 835  
BURNIE / TAS. 7320

21st March, 1985

**REPORT CMS 85/2/22**  
**Part 2**

YOUR REFERENCE: Letter dated 27.2.1985  
DATE RECEIVED: 28th February, 1985  
SAMPLE NOS.: 2 Samples  
SUBMITTED BY: P.A. Roberts  
WORK REQUESTED: Petrology

H.W. Fander, M. Sc.

REPORT CMS 85/2/22  
Part 2

This report summarises petrological characteristics of two cobbles from a gravel sequence in the Alfred River area. Representative thin-sections were prepared, examined with their respective offcuts and are detailed in the attached tabulated descriptions.

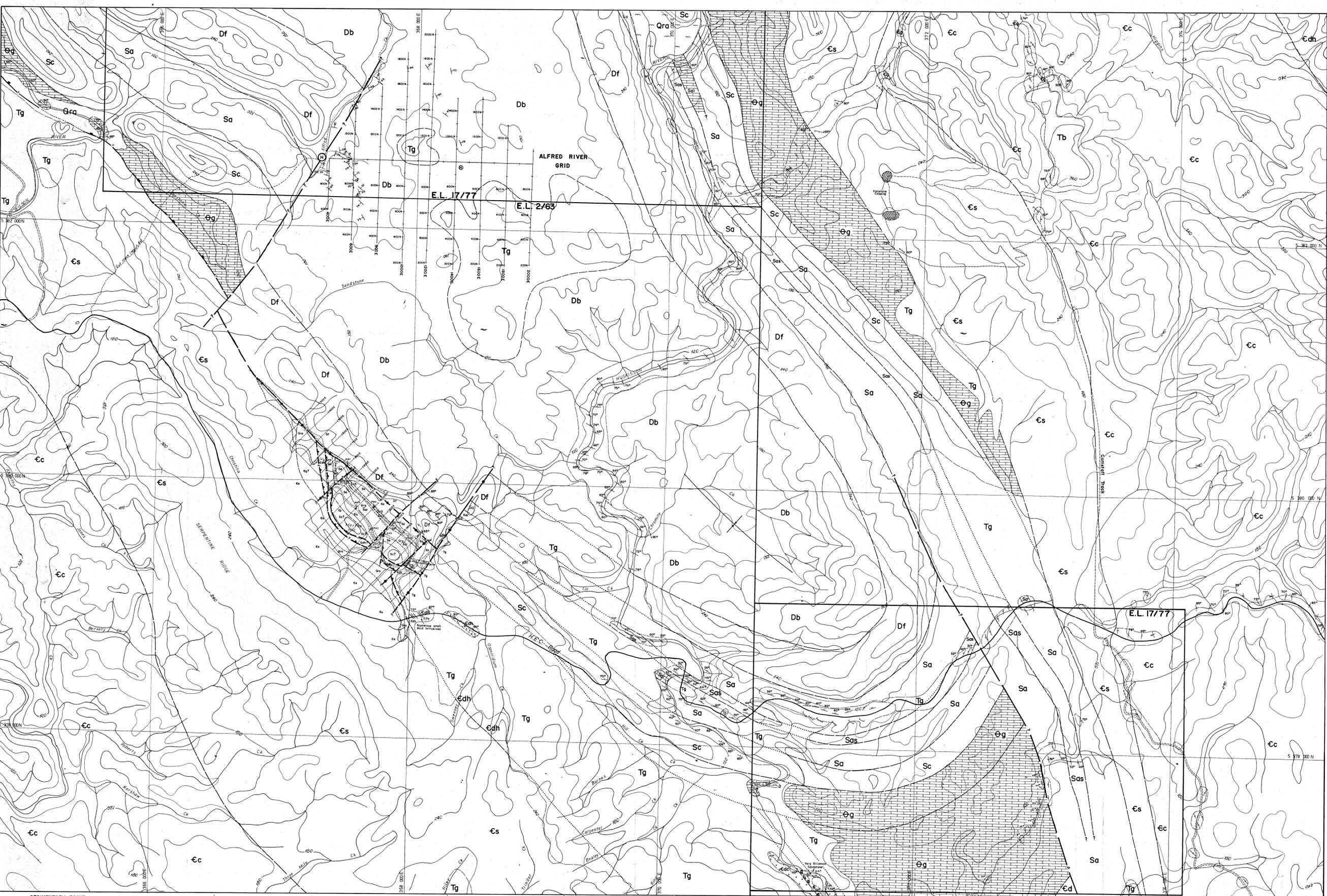
Sample 10521 represents a pneumatolytic quartz-schorl vein paragenesis with associated minor traces of extremely fine-grained quartz-included cassiterite. This rock bears analogy with the tourmaline-quartz alteration selvage on, and associated veins in, the Pine Hill Porphyry.

Sample 10522 represents a thoroughly altered (kaolinised/silicified) serpentinite and carries relict primary dark red chromite, characteristic of the Serpentine Hill and related ultramafic complexes. The alteration is probably strictly "regolithic" rather than hydrothermal. Similarly altered serpentinites, analogous to those developed in arid environments (notably Western Australia) are surprisingly not uncommon in N.W. Tasmania.

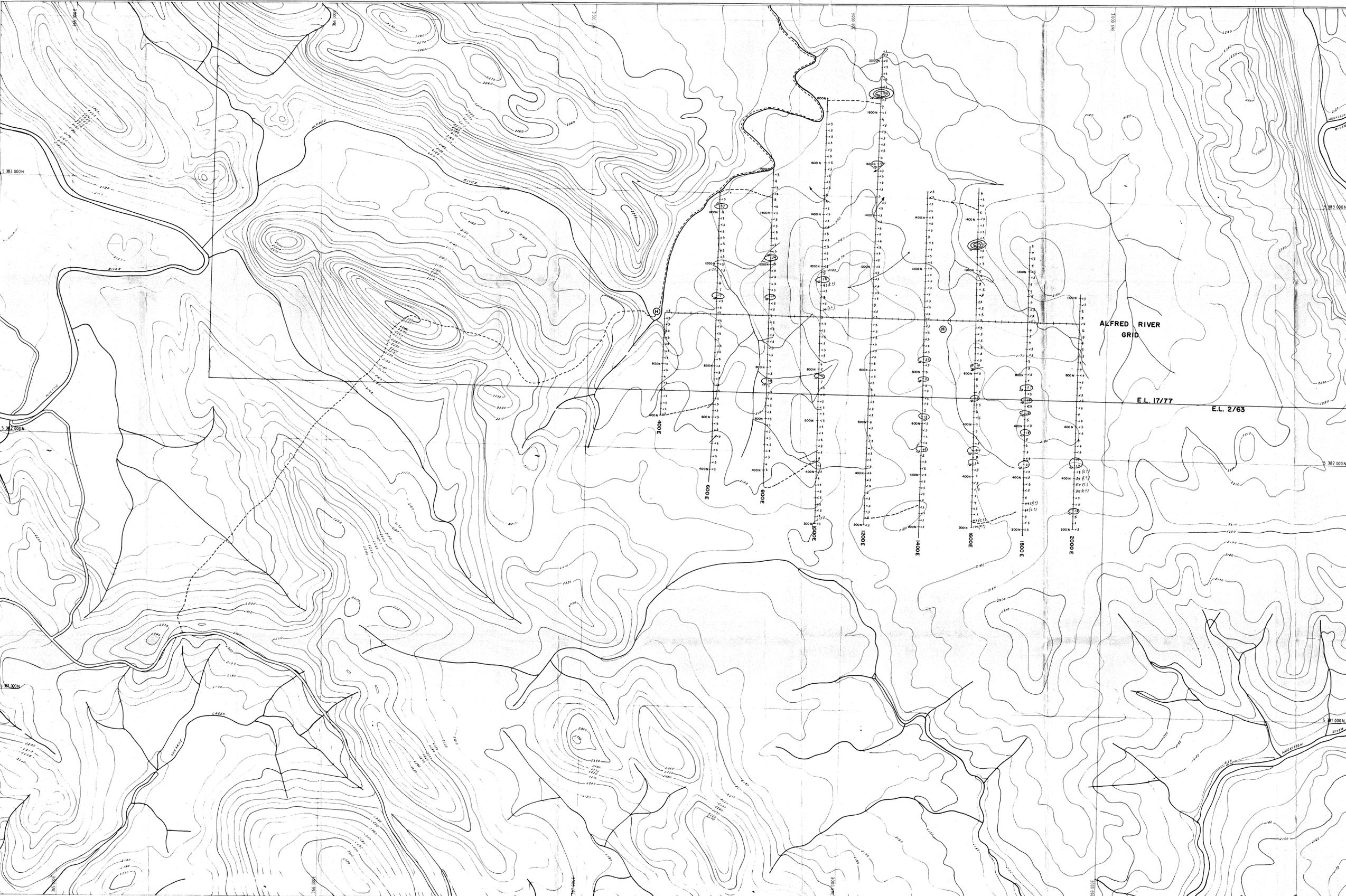
D. Cowan, B. Sc.

CENTRAL MINERALOGICAL SERVICES

Sample No.	Classification - Composition	Fabric	Accessories	Comments
10521 (T.S. 52733)	<u>Quartz-Tourmaline Rock</u> . Granular to subhedral quartz with interspersed clusters of green to brown-green schorl. Minor fine single acicular grains, clusters of semi-opaque rutile.	Fine- to coarse-grained massive to crudely comb-structured quartz, intergranular and included schorl.	Rare clots of sericite, muscovite flakes. Extremely rare fine acicular cassiterite. Minor zircons.	Pneumatolytic vein-type characteristics. Cassiterite as isolated complexly twinned-intergrown microscopic crystals, included in quartz.
10523 (T.S. 52734)	<u>Kaolin-Quartz Rock</u> . Kaolin aggregates with pervasively interspersed films, veinlets, vugs of fine-grained vein-type quartz. Disseminated single grains, clusters of chromite.	Patchy vague relict serpentinite-derived textures in kaolin aggregates.	Minor traces of limonite.	Thoroughly kaolinised/extensively quartz-veined serpentinite with relic dark red chromite, typical of Serpentine Hill and related complexes

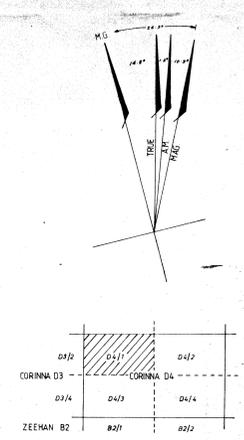


SEDIMENTARY ROCKS				IGNEOUS ROCKS				SYMBOLS		DATA SOURCE	
<b>Quaternary</b>	<b>Devonian</b>	<b>Silurian</b>	<b>Ordovician</b>	<b>Cambrian</b>	<b>Pre-Cambrian</b>	<b>Tertiary Basalt</b>	<b>Upper Cambrian</b>	20° Dip and Strike of Bedding (Facing Arrow)	Observed outcrop	Meriton Hill Grid Lines	RENISON LIMITED
Qra Recent Alluvium	Db Bell Shale	Sa Siliceous Sandstone member	Gd Gordon Limestone	U Upper Dundas Group (undiff.)	p-co Onondaga Quartzite and Schist	Tb Tertiary Basalt	Sc Upper Cambrian Sandstones and Mafic-ultra-mafic complexes	20° Dip and Strike of Bedding (Facing Arrow)	○ Fossil locality	Meriton Hill Grid Lines	<b>CORINNA D/4</b>
Tg Tertiary Gravels	Df Florence Quartzite	Sc Crilly Quartzite	U Upper Dundas Group (undiff.)	U Upper Dundas Group (undiff.)	U Upper Dundas Group (undiff.)	Dm Devonian Meredith Granite	Sc Cambrian Basic or Gabbroic Rocks	20° Dip and Strike of Cleavage, undifferentiated	--- Interpreted Boundary	Meriton Hill proposed Grid Lines	DATE: March 1988
			U Upper Dundas Group (undiff.)	U Upper Dundas Group (undiff.)	U Upper Dundas Group (undiff.)	Dm Devonian Meredith Granite	Sc Cambrian Basic or Gabbroic Rocks	20° Axial Plane of small anticline	--- Fault, approximate position		SCALE: 1:10000
			U Upper Dundas Group (undiff.)	U Upper Dundas Group (undiff.)	U Upper Dundas Group (undiff.)	Dm Devonian Meredith Granite	Sc Cambrian Basic or Gabbroic Rocks	Anticline, Synclinal Axis	--- Compositional layering in Ultramafic		DRAWING No. 2
			U Upper Dundas Group (undiff.)	U Upper Dundas Group (undiff.)	U Upper Dundas Group (undiff.)	Dm Devonian Meredith Granite	Sc Cambrian Basic or Gabbroic Rocks		--- Cleavage, porring, shear		85-2406



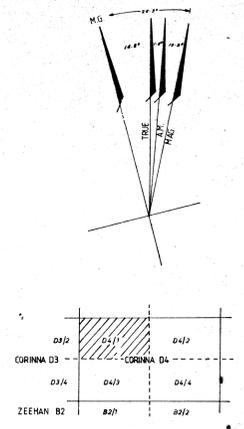
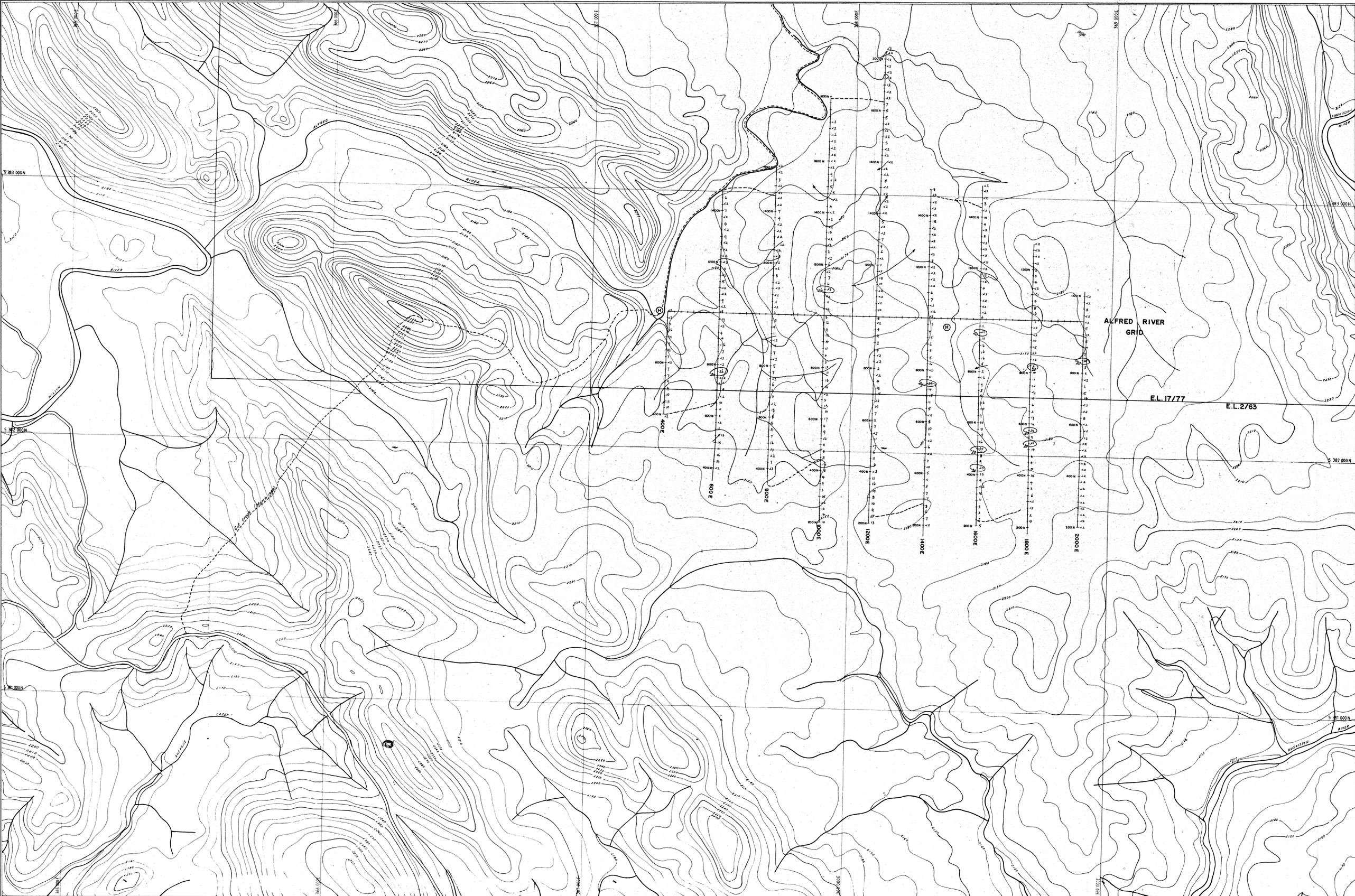
N.B. - Contours represent 2000m Sea-Level

(C?) Possible contamination from gravel  
 CONTOURS 10ppm  
 50ppm  
 100ppm



161057  
 RENISON LIMITED  
 CORINNA D4/1  
 BEDROCK GEOCHEMISTRY  
 TIN IN P.P.M.

GEOLOGIST	P. K.	SCALE 1:5000 METRES
DRAUGHTSMAN	S. F.	100 0 100
DATE	Jan. 85	
REVISIONS		DRAWING No. 3

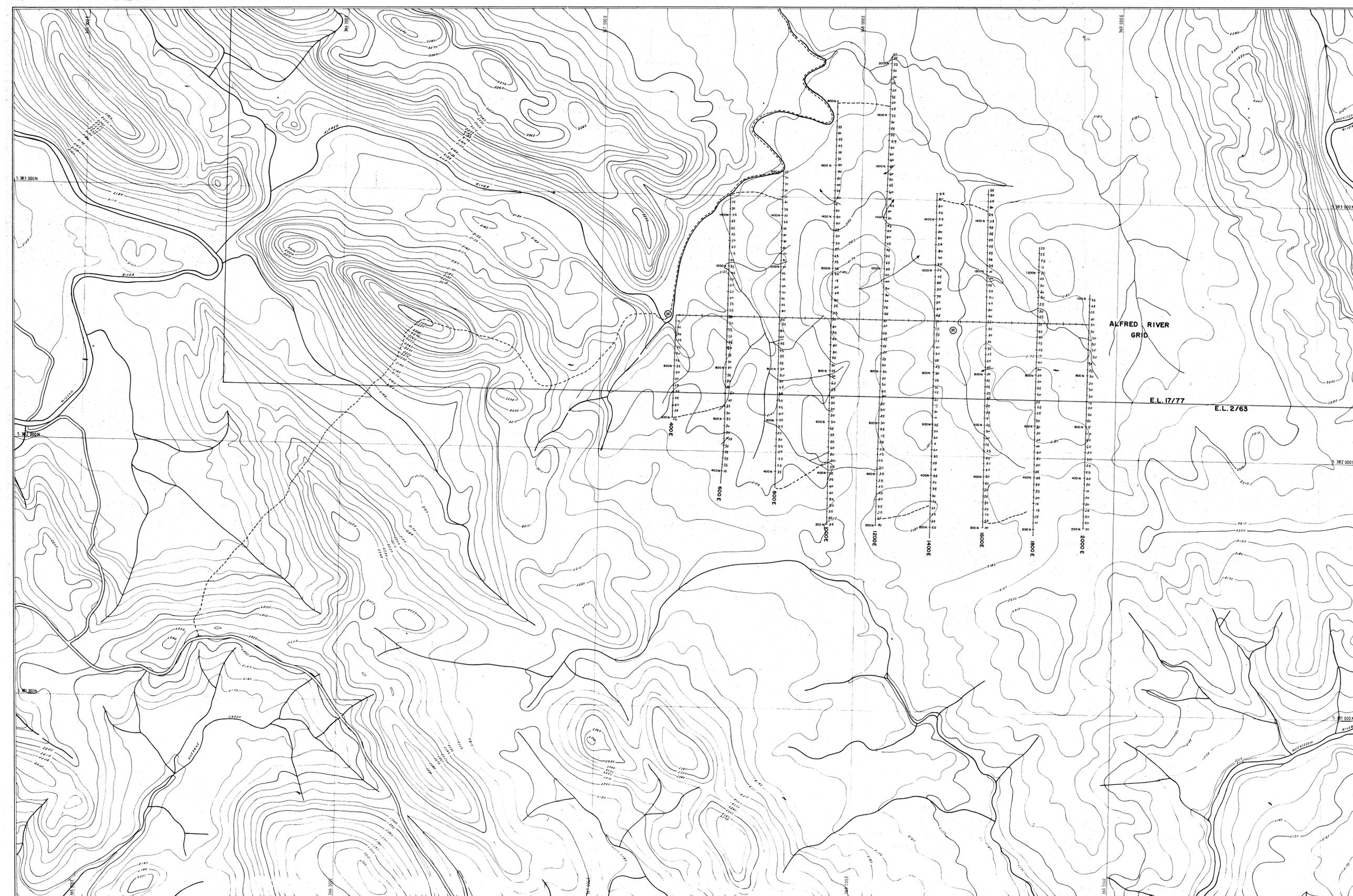


161058

N.B. - Contours represent 2000m+ Sea-Level  
 (C?) - Possible contamination from gravel  
 CONTOURS 20 ppm

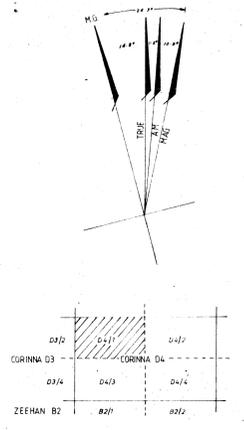
RENISON LIMITED	
<b>CORINNA D4/1</b>	
<b>BEDROCK GEOCHEMISTRY</b>	
<b>ARSENIC IN P.P.M.</b>	
GEOLOGIST	P.K.
DRAWN BY	S.F.
DATE	Jan, 85
REVISIONS	DRAWING No.
	<b>4</b>

SCALE: 1:5000 METRES  
  
 5 cm



NB - Contours represent 2000m ± Sea-Level

(C?) - Possible contamination from gravel



161059 3453

RENISON LIMITED

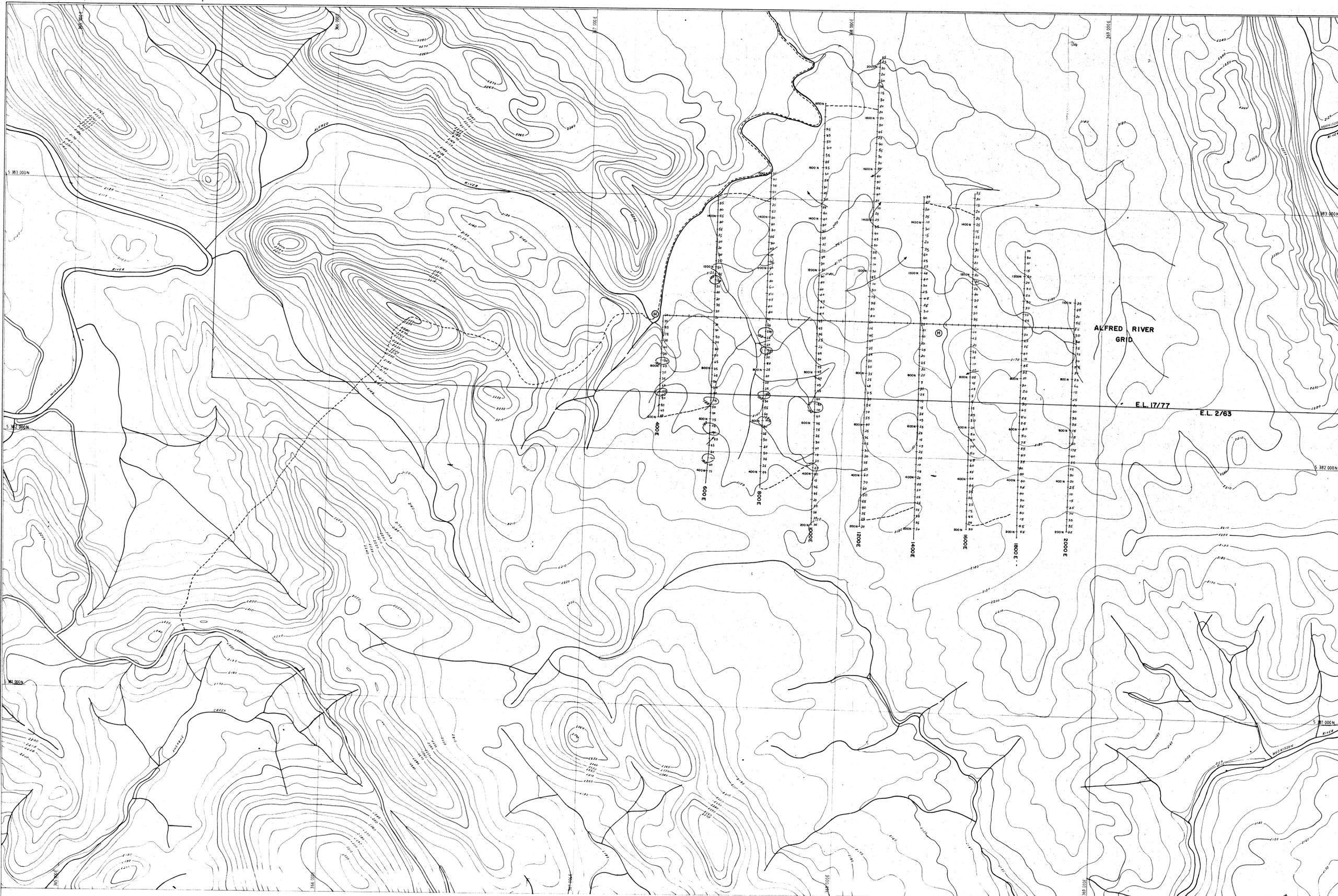
**CORINNA D4/1**

**BEDROCK GEOCHEMISTRY**

**COPPER IN P.P.M.**

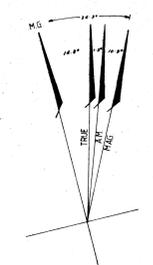
GEOLOGIST	P.K.	SCALE 1:5000 METRES
DRAUGHTSMAN	S.F.	
DATE	Jan 85	DRAWING No.
REVISIONS		5

85-2446



ALFRED RIVER  
GRID

E.L. 17/77  
E.L. 2/63



04/2	04/1	04/3
CORINNA D3		CORINNA D4
04/4	04/5	04/6
ZEEHAN B2	04/7	04/8

161060 3454

RENISON LIMITED

**CORINNA D4/1**  
**BEDROCK GEOCHEMISTRY**  
**LEAD IN P.P.M.**

GEOLOGIST	P. K.	SCALE	1:5000 METRES
DRAUGHTSMAN	S.F.		
DATE	Jan. 85	REVISIONS	DRAWING No.
		6	

N.B. - Contours represent 2000m+ Sea-Level

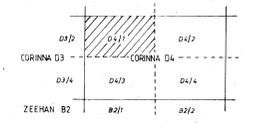
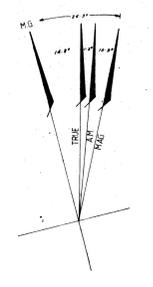
(C?) - Possible contamination from gravel  
CONTOURS 100ppm

825-2476



ALFRED RIVER  
GRID

E.L. 17/77  
E.L. 2/63



N.B. - Contours represent 2000m+ Sea-Level

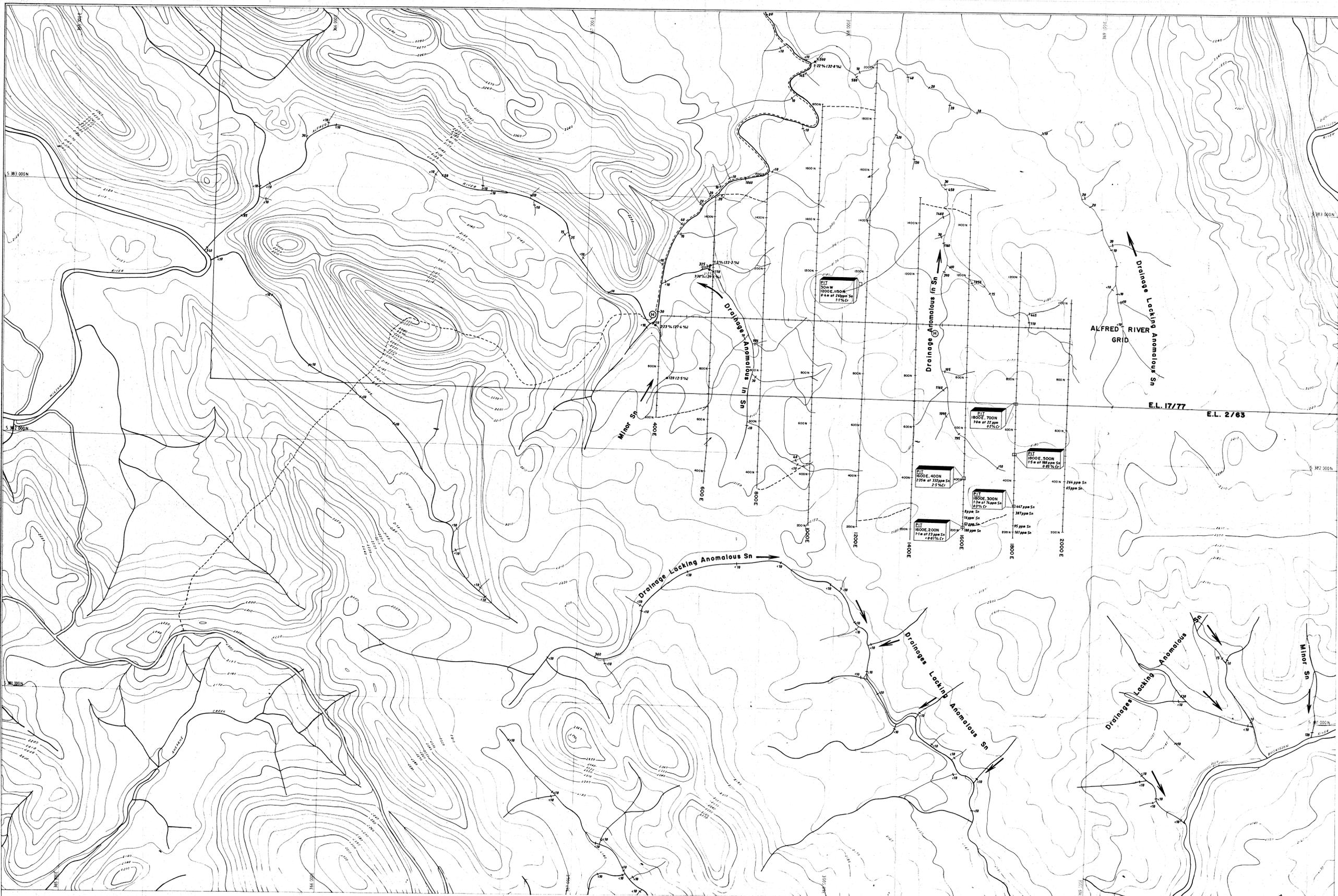
(c?) - Possible contamination from gravel  
CONTOURS 200ppm  
500ppm

161061

RENISON LIMITED

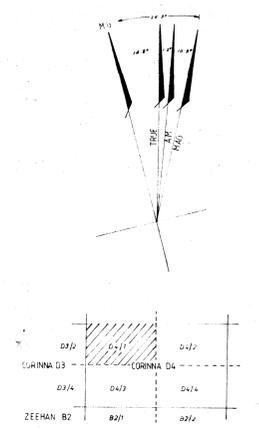
CORINNA D4/1  
BEDROCK GEOCHEMISTRY  
ZINC IN P.P.M.

GEOLOGIST	P.K.	SCALE 1:5000 METRES
DRAUGHTSMAN	S.F.	100 0 100
DATE	Jan. 85	5 cm
REVISIONS		DRAWING No.
		7



NB Contours represent 2000m + Sea-Level

- Legend**
- Stream Sediment - Sn ppm
  - Panned Concentrate - Sn, Cr ppm
  - Pit - Depth & Bulk assays of gravels - (Note: only Pit 1000E, 1500N reached bedrock)
  - Bulk assays of gravels directly above bedrock derived from a hand held Wacker percussion drill



161062

RENISON LIMITED

**CORINNA D4/1 - ALFRED RIVER AREA**

**STREAM SEDIMENT & GRAVEL Sn & Cr GEOCHEMISTRY**

GEOLOGIST	PK	SCALE	1:5000 METRES
DRAUGHTSMAN	S.F.	DATE	April 1985
REVISIONS		DRAWING No	8

5 cm