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INTERVIEW PINNACLES EL 36/80

PROGRESS REPORT FOR PERIOD APRIL 1984

TO JANUARY 1985

MICROFILMED

OPEN FILE

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Date: 28 January 1985

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1. INTRODUCTION

This report outlines exploration investigations completed between April 1984 and January 1985. The field season is limited to summer months only owing to the inaccessibility of the Licence area.

Rock chip, panned concentrate and clay fraction assay results of last years' geochemical survey together with follow up of the Pinnacles stream sediment anomaly are reported.

2. SUMMARY

Panned concentrate and clay fraction assay results obtained during last years' reconnaissance geochemical survey were treated statistically using the computer program MICROGAS, and anomalies identified.

The Pinnacles stream sediment anomaly defined by the same survey was followed up in detail by further stream sediment sampling. Approximately 60 stream sediments together with available rock chips were collected in a drainage area of approximately 15 Km². Photo-interpretation of this area identified four predominant geological domains of Precambrian age; dominant quartzite, interbedded quartzite and sandstone, dominant mudstone, and a swarm of intrusive mafic dykes.

3. CONCLUSIONS

Anomalous panned concentrate results Au (> 2 ppm), Pb (>125 ppm), Mo (>100 ppm) and Ba (>220 ppm) together with lesser Au, Pb, Mo, Zn, Fe, Mn were obtained from the Pinnacles stream sediment anomaly catchment area.

Anomalous clay fraction results were obtained in the vicinity of Mt Edith, Zn (> 250 ppm), Mo (> 45 ppm) but are not supported by other geochemical data.

Detailed stream sediment follow up of the Pinnacles anomaly failed to reproduce any of the anomalous values obtained previously. The failure is attributed to either the anomaly being of a restricted nature or dilution of the anomaly by heavy summer rainfall or contamination of the creeks by a bushfire immediately prior to the reconnaissance survey.

4. RECOMMENDATIONS

The Pinnacles anomaly is judged to have been fully tested according to target parameters set by CRAE. Although the cause of the aeromagnetic highs has not been determined, the geochemical survey encompassed their area of influence and the inability to reproduce the original geochemical anomaly indicates that the Pinnacles anomaly is of insufficient merit to warrant further attention.

Limited orientation should be undertaken to determine the geochemical response to bushfires.

No further panned concentrate nor clay fraction anomalies of significance were identified though the Bolton anomaly (Weir, 1984) remains to be tested.

Depending on these results, the Interview Licence area should be relinquished.

5. GEOCHEMISTRY

Assay results of panned concentrate and clay fraction samples collected during the 1984 reconnaissance geochemical survey are presented.

Sampling techniques have already been reported (Weir, 1984). Data for both sample types was treated statistically using the DSTATS subroutine of MICROGAS. Symbol maps and "worm" diagrams were produced to enable anomaly identification.

5.1 Panned Concentrates

Sample locations are plotted on Plan TASH 1685 whilst full assay details are presented in Appendix I. The data was treated statistically as part of the whole reconnaissance survey and "cut points" for the various populations are shown in Table 1.

	Anomalous ppm	Possibly Anomalous ppm	High Background ppm
Cu	> 56	16 - 56	-
Pb	>125	63 - 125	25 - 63
Zn	>100	31 - 100	-
Ni	-	> 25	19 - 25
Co	-	> 17	-
Cr	>912	630 - 912	-
Ag	> 2	1 - 2	-
Mo	>100	31 - 100	24 - 31
Fe	>1.58	1.0 - 1.58	0.63 - 1.0
Mn	>281	112 - 281	-
Sn	>1000	100 - 1000	20 - 100
W	>251	144 - 251	74 - 144
Ba	>223	125 - 223	89 - 125
Au	>1.99	0.99 - 1.99	0.39 - 0.99

TABLE 1 - PANNED CONCENTRATES, CUT POINTS

Log-Element histograms (Plan TASH 2472) have been prepared for data falling within EL 36/80 and generally show a lack of anomalous populations, the majority of results reflecting single populations.

5.1.1 Interpretation (Plans TASH 2488 and 2489)

Anomalous Au, Pb, Mo and Ba drain the southern portion of the Pinnacles anomaly and is supported by possibly anomalous values of Au, W, Ba, Zn, Mn and Ag draining an area of 15 Km².

A single anomalous gold value is reported in the Interview River.

The upper reaches of the Toner River is characterised by possibly anomalous values of Mn, Fe, Cr, Au and Mo considered to reflect weak mineralisation exposed in the Toner River mine workings.

5.2 Clay Fractions

Sample locations are plotted on Plan TASH 1687 and full assay details are located in Appendix II. Data was treated statistically as part of the reconnaissance survey and cut points for the elements analysed are shown in Table 2.

	Anomalous ppm	Possibly Anomalous ppm	High Background ppm
Cu	> 39	14 - 39	-
Pb	> 29	14 - 29	-
Zn	> 249	124 - 249	49 - 124
Ni	> 99	39 - 99	-
Co	-	-	-
Mo	> 44	29 - 44	-
Fe	> 2.49	1.79 - 2.49	0.99 - 1.79
Mn	> 221	119 - 221	-
As	> 26	9 - 26	-
Sn	-	-	> 19
W	> 150	99 - 150	-
Ba	> 399	239 - 399	149 239

Log element histograms (Plan TASH 2473) for data within EL 36/80 indicate that the majority of elements are characterised by single populations.

5.2.1 Interpretation (Plans TASH 2490 and 2491)

Anomalous values of zinc and molybdenum were obtained in drainages between Mt Hadmar and Mt Edith, though are unsupported by other geochemical sample types.

Anomalous lead and barium were obtained from the Bolton stream sediment anomaly justifying resampling of this area.

Within the possibly anomalous category, the northern part of the Licence area shows up in virtually all elements. This may reflect the weak vein type mineralisation or that the cut points are set too low. In either respect, the results are considered insignificant.

5.3 Rock Chips

Analytical details of rock chips are located in Appendix III whilst locations are plotted on Plan TASH 1686.

Assay results of samples collected from the Toner River and associated copper workings are plotted on Plan TASH 1710.

6. PINNACLES ANOMALY

The Pinnacles stream sediment anomaly (max 1150 ppm Zn, max 1.72% Fe, max 430 ppm Ba, max 50 ppm W) together with a similar panned concentrate anomaly c.f. 5.1.1 and coincident aeromagnetic highs (Plan TASH 2411) was selected for follow up by further stream sediment sampling.

Approximately 60 minus 80 mesh stream sediment samples and available rock chips were collected upstream of the original reconnaissance sample locations over an area of approximately 15-20 Km².

Limited photointerpretation of this area was also undertaken.

6.1 Photo-interpretation (Plan TASH 2482)

The Pinnacles area is characterised by a radial drainage pattern derived from a slight topographical dome. Vegetation is predominantly button grass with Ti tree and bauera scrub characterising the drainages.

Four geological domains of Precambrian? age were noted in the area. In the extreme west, a sequence of folded quartzites characterised by high relief and bare ridges is dominant. In the central portion, a sequence of interbedded quartzites and mudstones are intruded by a swarm of mafic dykes which separate a sequence of highly cleaved mudstones to the east. The mafic dykes are characterised by well wooded, low relief ridges.

The fracture pattern is complex and dominated by major NNW and ENE trending faults, many of which are quartz filled and thus high relief.

Numerous minor fractures of similar trends dissect the area and are most evident along the outcrop of the mafic dykes.

6.2 Geochemistry

Approximately 60 stream sediments and available rock chips were collected during a brief helicopter borne follow up of this anomaly. Samples were collected from suitable trap sites, sieved to -1mm in the field and subsequently dried and sieved to minus 80 mesh by ALS in Brisbane. Samples were analysed for a range of elements by ICP, Sn, W, Ba by XRF and for Au by AAS with a carbon rod finish.

Sample locations and results are plotted on Plans TASH 2475 & 2483-2486 and full assay details are located in Appendix IV.

6.3 Interpretation and Discussion

Assay results received failed to repeat any of the anomalous results obtained from the initial reconnaissance survey, though two isolated, anomalous gold values of 230 ppb and 100 ppb were reported. Reasons for failure to reproduce the results are unclear though a number of points are worth mentioning.

- (a) The follow up samples were collected in the same fashion, using the same equipment by different field crews. On the initial survey, anomalous assay results were obtained by each field crew.
- (b) Samples were analysed by the same laboratory, by the same method (ICP) and digestion in both surveys.
- (c) Routine checks by the laboratory confirmed the high assay values and recent re-analysis of the original samples by AAS for zinc only also confirmed the high values (Appendix V).

- (d) A number of stream sediment samples collected in 1983 (Weber 1983) did not indicate any anomalies.
- (e) Possible contamination of the drainage systems by a bushfire immediately prior to the original survey. Van Moort (1981) reports up to 1000 ppm Zn in leaves of Ti tree sampled within the Mt Read Volcanics.

The sampling technique of digging up the trap sites in creeks would tend to exclude this contamination.

- (f) Dilution of the anomaly by heavier than normal rainfall during the summer months. The reconnaissance survey was conducted in February/March whilst follow up was completed in December 1984.

7. LOCATION

Burnie SK55-3 1:250 000 Sheet

8. KEYWORDS

Precambrian - quartzite, mudstone. Mafic intrusive dykes.
Photo-interpretation.

Assays - geochem

Geophysics - airborne mag

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9. LIST OF REFERENCES

Russell D W & Van Moort J C (1981) Biogeochemistry and Pedogeochemistry of the White Spur area, near Rosebery, Tasmania. Economic Geology, vol. 76, pp 339-350.

Weber G B (1983) Progress Report on EL 36/80, Interview Pinnacles, W Tasmania for the period ending 30 June 1983. CRAE unpublished Report No 12155.

Weir D J (1984) Interview Pinnacles EL 36/80, Progress Report for period ending 28 March 1984. CRAE unpublished Report No 12565.

10. LIST OF PLANS

<u>TASh No</u>		<u>Scale</u>
1685	Interview Pinnacles EL 36/80 Panned Concentrate Sample Locations	1:100 000
2472	Interview Pinnacles EL 36/80 Panned Concentrates, Log Element Histograms	
2488	Interview Pinnacles EL 36/80 Panned Concentrates Worm Diagram - Anomalous	1:100 000
2489	Interview Pinnacles EL 36/80 Panned Concentrates, Worm diagram - Possibly anomalous	1:100 000
1687	Interview Pinnacles EL 36/80 Clay fraction, sample locations	1:100 000

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<u>TASh No</u>		<u>Scale</u>
2490	Interview Pinnacles EL 36/80 Clay fraction Worm diagram - Anomalous	1:100 000
2491	Interview Pinnacles EL 36/80 Clay fraction Worm diagram - Possibly anomalous	1:100 000
1686	Interview Pinnacles EL 36/80 Rock Chip, Sample Locations	1:100 000
1710	Interview Pinnacles EL 36/80 Sketch Map, Toner River Copper Workings	1:2 000 approx
2411	Interview Pinnacles EL 36/80 Pinnacles Anomaly - aeromagnetic contour plan	1:10 000
2482	Interview Pinnacles EL 36/80 Pinnacles Anomaly - Photo-interpretation	1:10 000
2475	Interview Pinnacles EL 36/80 Pinnacles Anomaly - Stream Sediments, Sample locations	1:10 000
2483	Interview Pinnacles EL 36/80 Pinnacles Anomaly - Stream Sediments, Geochemical results Cu Pb Zn	1:10 000
2486	Interview Pinnacles EL 36/80 Pinnacles Anomaly - Stream Sediments, Geochemical results Ni Co Fe	1:10 000

012

<u>TASh No</u>		<u>Scale</u>
2485	Interview Pinnacles EL 36/80 Pinnacles Anomaly - Stream sediments, Geochemical results Mn As Mo	1:10 000
2484	Interview Pinnacles EL 36/80 Pinnacles Anomaly - Stream sediments, Geochemical results Sn W Ba	1:10 000

11. LIST OF APPENDICES

- Appendix I Panned Concentrates - Assay results
- Appendix II Clay Fractions - Assay results
- Appendix III Rock Chips - Assay results
- Appendix IV Pinnacles Anomaly, Ledgers and Assay results
- Appendix V Pinnacles Anomaly, Re-assays

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APPENDIX I

PANNED CONCENTRATES - ASSAY RESULTS

CRA EXPLORATION PTY LTDCLAY FRACTION AND PANNED CONCENTRATE LOCATIONS
FOR SITE DETAILS c/f STREAM SEDIMENT LEDGERS

Clay Fraction No	Panned Concentrate No	East	North	Corresp. Stream Sed No
1153392	1153017	331850	5415799	1142817
1153397	1153022	336800	5411549	1142822
1153398	1153023	334599	5411800	1142823
1153399	1153024	334700	5411950	1142824
1153400	1153025	333200	5412399	1142825
1153401	1153026	333300	5412400	1142826
1153404	1153029	335899	5414700	1142829
1153405	1153030	335975	5414700	1142830
1153421	1153046	333999	5405150	1142846
1153617	1153542	331951	5415799	1153242
1153620	1153545	333000	5414824	1153245
1153621	1153546	332850	5414850	1153246
1153622	1153547	336050	5410650	1153247
1153623	1153548	335950	5410300	1153248
1153624	1153549	336750	5411749	1153249
1153625	1153550	335250	5412125	1153250
1153626	1153551	335425	5412350	1153251
1153627	1153552	335575	5413549	1153252
1153630	1153555	335549	5414660	1153255
1153631	1153556	336310	5414340	1153256
1153645	1153570	334999	5406180	1153270
1153647	1153572	334409	5408299	1153272
1153648	1153573	334295	5408420	1153273
1153649	1153574	333860	5404550	1153274
1153650	1153575	333248	5403440	1153275
1153655	1153580	333879	5399780	1153280
1153697	1153472	333099	5413999	1153172
1153698	1153473	332999	5414200	1153173
1153699	1153474	335951	5411300	1153174
1153700	1153475	335199	5410150	1153175

Project: INTERVIEW PINNACLES

Tenement: EL 36/80

Clay Fraction DPO: 30484

Panned Concentrate DPO: 30486

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CLAY FRACTION AND PANNED CONCENTRATE LOCATIONS
FOR SITE DETAILS c/f STREAM SEDIMENT LEDGERS

Clay Fraction No	Panned Concentrate No	East	North	Corresp. Stream Sed No
1153701	1153476	334149	5411550	1153176
1153702	1153477	334100	5411699	1153177
1153703	1153478	333000	5413100	1153178
1153704	1153479	332899	5413199	1153179
1153713	1153488	336150	5411349	1153188
1153619	1153494	334800	5409550	1153194
1153720	1153495	336900	5409600	1153195
1153721	1153496	333299	5404000	1153196
1153722	1153497	336001	5403000	1153197
1153723	1153498	336049	5403000	1153198
1153724	1153499	335498	5400500	1153199
1153727	1153502	333450	5395550	1153202
1153731	1153506	336800	5394600	1153206
1153769	1153319	332200	5414699	1153094
1153770	1153320	332100	5414800	1153095
1153771	1153321	336100	5411050	1153096
1153772	1153322	336100	5411600	1153097
1153773	1153323	336400	5412700	1153098
1153774	1153324	333850	5413900	1153099
1153775	1153325	334000	5413950	1153100
1153787	1153337	334449	5410700	1153112
1153788	1153338	336800	5409800	1153113
1153789	1153339	336625	5409700	1153114
1153790	1153340	336900	5405875	1153115
1153792	1153342	335574	5404725	1153117
1153795	1153345	336900	5399500	1153120
1153796	1153346	336799	5399350	1153121
1153797	1153347	334400	5398700	1153122
1153798	1153348	334400	5398500	1153123
1153872	1153422	334151	5405050	1153047

Project: INTERVIEW PINNACLES Tenement: EL 36/80

Clay Fraction DPO: 30484

Panned Concentrate DPO: 30486

CRA EXPLORATION PTY LTD

CLAY FRACTION AND PANNED CONCENTRATE LOCATIONS
FOR SITE DETAILS c/f STREAM SEDIMENT LEDGERS

Clay Fraction No	Panned Concentrate No	East	North	Corresp. Stream Sed No
1153873	1153423	333800	5407099	1153048
1153874	1153424	333899	5406999	1153049
1153875	1153425	336250	5407000	1153050
1153878	1153428	333300	5403650	1153053
1153883	1153433	333150	5400699	1153058
1153884	1153434	333250	5400750	1153059
1153885	1153435	333799	5398450	1153060
1153886	1153436	333549	5396700	1153061
1153887	1153437	333549	5395400	1153062

Project: INTERVIEW PINNACLES Tenement: EL 36/80

Clay Fraction DPO: 30484

Panned Concentrate DPO: 30486

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A PROGRAM IN THE GASP SYSTEM TO
 PRINT A LISTING OF A DATA SET

VERSION 4.0 AUG 1983.

DATA TITLE: SAMPLE TYPE PANCON

THE FOLLOWING VARIABLES ARE IN THE DATA SET:

EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG
MO	FEZ	MN	AS	SN	W	BA	AU(B)	AUP	WT

LISTING OF ARCHIVAL INFORMATION FOR THE INPUT DATA

***** ARCHIVAL INFORMATION WAS ABSENT IN ORIGINAL DATA *****

***** INFORMATION ADDED BY CRUNCH *****

***** THE FOLLOWING SPECIAL VALUES WERE RECODED TO EQUAL -1234.567 *****

VARIABLE NAME SPECIAL VALUE

EAST	-1.000
NORTH	-1.000
ZONE	-1.000
CU	-1.000
PB	-1.000
ZN	-1.000
NI	-1.000
CO	-1.000
CR	-1.000
AG	-1.000
MD	-1.000
FEZ	-1.000
MN	-1.000
AS	-1.000
SN	-1.000
W	-1.000
BA	-1.000
AU(B)	-1.000
AUP	-1.000
WT	-1.000

***** NO TRANSFORMATIONS OR SELECTIONS WERE MADE DURING CRUNCH *****

NUMBER OF RECORDS WRITTEN IS : 69
RECORD LENGTH IS : 22

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MO
1153017	331850	5415799	55	25	20	195	5	5	370	1	10
1153022	336800	5411549	55	5	20	10	5	5	230	2	5
1153023	334599	5411800	55	5	25	20	2	5	280	3	5
1153024	334700	5411950	55	5	10	15	2	5	240	1	5
1153025	333200	5412399	55	5	10	10	5	5	430	1	10
1153026	333300	5412400	55	5	20	15	5	5	390	3	5
1153029	335899	5414700	55	10	20	15	5	5	450	2	10
1153030	335975	5414700	55	5	15	15	5	5	290	1	5
1153046	333999	5405150	55	5	5	15	2	2	510	1	15
1153319	332200	5414699	55	5	5	15	2	2	320	1	15
1153320	332100	5414800	55	5	5	10	2	2	360	0.5	15
1153321	336100	5411050	55	5	5	10	5	5	580	1	25
1153322	336100	5411600	55	5	20	15	2	2	370	2	10
1153323	336400	5412700	55	10	15	10	2	2	770	2	25
1153324	333850	5413900	55	5	10	10	2	2	230	1	5
1153325	334000	5413950	55	5	15	10	2	2	300	1	5
1153337	334449	5410700	55	5	10	30	5	5	220	1	5
1153338	336800	5409800	55	5	15	15	2	2	410	2	15
1153339	336625	5409700	55	5	5	15	2	2	220	0.5	10
1153340	336900	5405875	55	5	10	10	2	2	380	1	15
1153342	335574	5404725	55	5	25	20	5	5	540	2	20
1153345	336900	5399500	55	5	5	10	5	5	410	1	15
1153346	336799	5399350	55	5	15	15	2	2	370	1	15
1153347	334400	5398700	55	5	10	10	5	5	290	2	10
1153348	334400	5398500	55	5	10	10	2	2	420	1	25
1153422	334151	5405050	55	5	5	10	5	5	220	1	5
1153423	333800	5407099	55	5	10	15	2	2	430	1	10
1153424	333899	5406999	55	5	5	10	2	2	280	1	5
1153425	336250	5407000	55	5	5	10	2	2	165	1	5
1153428	333300	5403650	55	25	15	70	35	2	310	1	10
1153433	333150	5400699	55	5	15	15	2	2	135	1	2.5
1153434	333250	5400750	55	5	5	25	2	2	220	1	2.5
1153435	333799	5398450	55	5	25	95	2	2	85	2	5
1153436	333549	5396700	55	5	30	15	2	2	190	1	10
1153437	333549	5395400	55	5	45	20	2	2	240	1	10
1153472	333099	5413999	55	5	10	10	5	5	410	1	2.5
1153473	332999	5414200	55	5	10	10	10	5	660	1	15
1153474	335951	5411300	55	5	10	5	5	5	690	1	2.5
1153475	335199	5410150	55	10	5	10	15	5	1200	1	35
1153476	334149	5411550	55	5	10	5	5	2	400	0.5	5
1153477	334100	5411699	55	5	25	15	5	5	430	1	10
1153478	333000	5413100	55	5	5	5	5	5	330	1	10
1153479	332899	5413199	55	5	5	5	5	2	500	1	15
1153488	336150	5411349	55	10	15	15	5	5	390	1	10
1153494	334800	5409550	55	5	5	10	15	5	750	0.5	25
1153495	336900	5409600	55	5	5	15	10	5	430	1	15
1153496	333299	5404000	55	5	5	15	10	2	580	0.5	20
1153497	336001	5403000	55	5	5	10	10	5	510	1	15
1153498	336049	5403000	55	10	20	10	10	5	370	2	5
1153499	335498	5400500	55	5	10	10	15	5	760	1	20
1153502	333450	5395550	55	5	40	15	5	5	170	1	5
1153506	336800	5394600	55	45	260	25	20	5	460	1	130
1153542	331951	5415799	55	5	5	10	15	2	280	0.5	10
1153545	333000	5414824	55	5	10	15	10	2	190	2	5
1153546	332850	5414850	55	5	5	10	10	5	470	1	15
1153547	336050	5410650	55	5	10	10	15	5	570	2	20
1153548	335950	5410300	55	5	10	10	15	5	250	1	5
1153549	336750	5411749	55	10	20	15	5	5	370	2	10
1153550	335250	5412125	55	5	10	10	10	2	260	1	10
1153551	335425	5412350	55	5	10	10	5	2	220	1	10

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MO
1153552	335575	5413549	55	5	10	10	10	5	310	1	10
1153555	335549	5414660	55	10	20	15	15	5	185	1	5
1153556	336310	5414340	55	10	15	10	15	5	430	1	10
1153570	334999	5406180	55	5	5	10	5	2	300	1	10
1153572	334409	5408299	55	5	5	15	10	2	280	1	10
1153573	334295	5408420	55	5	5	15	10	5	480	1	15
1153574	333860	5404550	55	5	5	10	10	2	420	1	15
1153575	333248	5403440	55	5	5	10	2	2	290	1	10
1153580	333879	5399780	55	10	15	20	15	5	470	2	10

SAMPLE NO.	FEZ	MN	AS	SN	W	BA	AU(B)	AUP	WT
1153017	0.81	155	-	2.5	60	30	-	0.05	24.98
1153022	1.07	280	-	2.5	20	90	-	1.1	151.33
1153023	1.26	340	-	2.5	10	100	-	0.05	139.96
1153024	0.54	60	-	2.5	5	60	-	0.05	166.3
1153025	0.75	110	-	2.5	10	10	-	0.05	50.48
1153026	1.32	270	-	2.5	10	60	-	0.05	69.16
1153029	0.75	85	-	5	90	110	-	0.05	45.93
1153030	0.83	155	-	2.5	20	160	-	0.05	148.42
1153046	0.47	80	-	2.5	70	5	-	0.05	11.01
1153319	0.28	20	-	10	10	30	-	0.2	143.25
1153320	0.33	20	-	2.5	5	10	-	0.05	105.8
1153321	0.6	75	-	2.5	20	10	-	0.05	37.78
1153322	1.05	240	-	2.5	30	100	-	0.05	49.72
1153323	1.07	95	-	2.5	60	90	-	0.6	27.27
1153324	0.68	160	-	2.5	10	50	-	0.05	1478
1153325	0.86	200	-	2.5	10	90	-	0.05	108.95
1153337	0.56	115	-	2.5	20	50	-	0.1	113.08
1153338	0.83	170	-	5	20	70	-	0.2	44.64
1153339	0.36	50	-	2.5	10	60	-	0.1	130.33
1153340	0.65	85	-	2.5	20	50	-	0.1	111.64
1153342	1.25	210	-	2.5	40	50	-	0.2	23.56
1153345	0.44	30	-	2.5	30	30	-	0.1	30.57
1153346	0.51	80	-	5	20	20	-	0.9	70.26
1153347	0.5	40	-	10	40	40	-	0.2	87.57
1153348	0.44	30	-	10	40	20	-	1.8	55.15
1153422	0.22	35	-	2.5	20	20	-	0.05	39.6
1153423	0.39	35	-	2.5	40	10	-	0.05	16.88
1153424	0.25	25	-	2.5	20	20	-	0.1	26.62
1153425	0.24	35	-	2.5	10	70	-	0.05	73.88
1153428	0.29	30	-	2.5	10	10	-	0.05	38
1153433	0.24	50	-	5	30	80	-	0.05	64.51
1153434	0.24	35	-	2.5	30	40	-	0.05	118.63
1153435	0.25	25	-	45	110	190	-	0.1	128.23
1153436	0.32	20	-	50	140	170	-	0.1	54.05
1153437	0.72	280	-	35	110	150	-	2.7	44.86
1153472	0.74	145	-	2.5	30	60	-	0.05	139.34
1153473	1.07	200	-	2.5	20	70	-	0.1	43.01
1153474	1.08	190	-	2.5	30	90	-	0.1	68.61
1153475	0.96	55	-	2.5	50	50	-	0.1	70.44
1153476	0.67	135	-	2.5	20	80	-	0.1	132.17
1153477	1.27	330	-	2.5	20	110	-	0.1	86.31
1153478	0.43	70	-	2.5	5	50	-	0.1	149.76
1153479	0.52	55	-	2.5	10	90	-	0.1	103.44
1153488	0.42	35	-	2.5	60	100	-	1.6	83.76
1153494	0.7	40	-	2.5	5	30	-	0.3	21.54
1153495	0.67	105	-	2.5	5	70	-	0.1	64.33
1153496	0.5	25	-	2.5	5	30	-	0.1	24.83
1153497	0.62	95	-	2.5	20	30	-	0.1	58.3
1153498	1.07	220	-	2.5	20	90	-	0.1	92.53
1153499	0.88	85	-	2.5	5	40	-	2.3	24.02
1153502	0.34	50	-	40	140	200	-	0.1	85.52
1153506	0.95	100	-	25	120	300	-	0.2	22.86
1153542	0.32	25	-	2.5	10	30	-	0.1	49.85
1153545	0.5	95	-	2.5	5	50	-	0.05	221.05
1153546	0.47	30	-	2.5	5	30	-	0.05	41.69
1153547	0.88	130	-	-	-	-	-	0.05	5.26
1153548	0.58	120	-	2.5	20	110	-	0.2	94.62
1153549	0.6	85	-	2.5	40	90	-	0.1	39.14
1153550	0.37	20	-	2.5	5	80	-	0.05	92.27
1153551	0.37	20	-	2.5	5	90	-	0.05	95.63

189022

021

022

SAMPLE NO.	FEZ	MN	AS	SN	W	BA	AU(B)	AUP	WT
1153552	0.42	65	-	2.5	10	50	-	0.1	171.74
1153555	0.37	20	-	5	30	150	-	0.05	93.31
1153556	0.71	55	-	2.5	60	80	-	0.05	36.93
1153570	0.3	25	-	2.5	5	30	-	0.05	109.56
1153572	0.24	10	-	2.5	10	20	-	0.05	78.88
1153573	0.43	20	-	2.5	5	20	-	0.05	35.48
1153574	0.39	25	-	2.5	10	40	-	0.05	25.49
1153575	0.3	20	-	2.5	5	40	-	0.05	67.95
1153580	0.61	45	-	25	80	70	-	1.4	26.26

NUMBERS THAT ARE CODED - REPRESENT 'SPECIAL VALUES'.
THESE VALUES WILL BE EXCLUDED FROM ALL CALCUALTIONS IN THE
GASP SYSTEM.

189023

023

189024

APPENDIX II

CLAY FRACTIONS - ASSAY RESULTS

024

189025

CRA EXPLORATION PTY LTD

CLAY FRACTION AND PANNED CONCENTRATE LOCATIONS
FOR SITE DETAILS c/f STREAM SEDIMENT LEDGERS

Clay Fraction No	Panned Concentrate No	East	North	Corresp. Stream Sed No
1153392	1153017	331850	5415799	1142817
1153397	1153022	336800	5411549	1142822
1153398	1153023	334599	5411800	1142823
1153399	1153024	334700	5411950	1142824
1153400	1153025	333200	5412399	1142825
1153401	1153026	333300	5412400	1142826
1153404	1153029	335899	5414700	1142829
1153405	1153030	335975	5414700	1142830
1153421	1153046	333999	5405150	1142846
1153617	1153542	331951	5415799	1153242
1153620	1153545	333000	5414824	1153245
1153621	1153546	332850	5414850	1153246
1153622	1153547	336050	5410650	1153247
1153623	1153548	335950	5410300	1153248
1153624	1153549	336750	5411749	1153249
1153625	1153550	335250	5412125	1153250
1153626	1153551	335425	5412350	1153251
1153627	1153552	335575	5413549	1153252
1153630	1153555	335549	5414660	1153255
1153631	1153556	336310	5414340	1153256
1153645	1153570	334999	5406180	1153270
1153647	1153572	334409	5408299	1153272
1153648	1153573	334295	5408420	1153273
1153649	1153574	333860	5404550	1153274
1153650	1153575	333248	5403440	1153275
1153655	1153580	333879	5399780	1153280
1153697	1153472	333099	5413999	1153172
1153698	1153473	332999	5414200	1153173
1153699	1153474	335951	5411300	1153174
1153700	1153475	335199	5410150	1153175

Project: INTERVIEW PINNACLES

Tenement: EL 36/80

Clay Fraction DPO: 30484

Panned Concentrate DPO: 30486

CRA EXPLORATION PTY LTDCLAY FRACTION AND PANNED CONCENTRATE LOCATIONS
FOR SITE DETAILS c/f STREAM SEDIMENT LEDGERS

Clay Fraction No	Panned Concentrate No	East	North	Corresp. Stream Sed No
1153701	1153476	334149	5411550	1153176
1153702	1153477	334100	5411699	1153177
1153703	1153478	333000	5413100	1153178
1153704	1153479	332899	5413199	1153179
1153713	1153488	336150	5411349	1153188
1153619	1153494	334800	5409550	1153194
1153720	1153495	336900	5409600	1153195
1153721	1153496	333299	5404000	1153196
1153722	1153497	336001	5403000	1153197
1153723	1153498	336049	5403000	1153198
1153724	1153499	335498	5400500	1153199
1153727	1153502	333450	5395550	1153202
1153731	1153506	336800	5394600	1153206
1153769	1153319	332200	5414699	1153094
1153770	1153320	332100	5414800	1153095
1153771	1153321	336100	5411050	1153096
1153772	1153322	336100	5411600	1153097
1153773	1153323	336400	5412700	1153098
1153774	1153324	333850	5413900	1153099
1153775	1153325	334000	5413950	1153100
1153787	1153337	334449	5410700	1153112
1153788	1153338	336800	5409800	1153113
1153789	1153339	336625	5409700	1153114
1153790	1153340	336900	5405875	1153115
1153792	1153342	335574	5404725	1153117
1153795	1153345	336900	5399500	1153120
1153796	1153346	336799	5399350	1153121
1153797	1153347	334400	5398700	1153122
1153798	1153348	334400	5398500	1153123
1153872	1153422	334151	5405050	1153047

Project: INTERVIEW PINNACLES Tenement: EL 36/80

Clay Fraction DPO: 30484

Panned Concentrate DPO: 30486

026

CRA EXPLORATION PTY LTD

CLAY FRACTION AND PANNED CONCENTRATE LOCATIONS

FOR SITE DETAILS c/f STREAM SEDIMENT LEDGERS

Clay Fraction No	Panned Concentrate No	East	North	Corresp. Stream Sed No
1153873	1153423	333800	5407099	1153048
1153874	1153424	333899	5406999	1153049
1153875	1153425	336250	5407000	1153050
1153878	1153428	333300	5403650	1153053
1153883	1153433	333150	5400699	1153058
1153884	1153434	333250	5400750	1153059
1153885	1153435	333799	5398450	1153060
1153886	1153436	333549	5396700	1153061
1153887	1153437	333549	5395400	1153062

Project: INTERVIEW PINNACLES Tenement: EL 36/80

Clay Fraction DPO: 30484

Panned Concentrate DPO: 30486

0270

24-JAN-85

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A PROGRAM IN THE GASP SYSTEM TO
 PRINT A LISTING OF A DATA SET
 VERSION 4.0 AUG 1983.

DATA TITLE: SAMPLE TYPE CLAY/SS

THE FOLLOWING VARIABLES ARE IN THE DATA SET:

EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG
MO	FEZ	MN	AS	SN	W	BA	AU(B)	AUP	

189028

LISTING OF ARCHIVAL INFORMATION FOR THE INPUT DATA

***** ARCHIVAL INFORMATION WAS ABSENT IN ORIGINAL DATA *****

***** INFORMATION ADDED BY CRUNCH *****

***** THE FOLLOWING SPECIAL VALUES WERE RECODED TO EQUAL -1234.567 *****

VARIABLE NAME SPECIAL VALUE

EAST	-1.000
NORTH	-1.000
ZONE	-1.000
CU	-1.000
PB	-1.000
ZN	-1.000
NI	-1.000
CO	-1.000
CR	-1.000
AG	-1.000
MO	-1.000
FEZ	-1.000
MN	-1.000
AS	-1.000
SN	-1.000
W	-1.000
BA	-1.000
AU(B)	-1.000
AUP	-1.000

***** NO TRANSFORMATIONS OR SELECTIONS WERE MADE DURING CRUNCH *****

NUMBER OF RECORDS WRITTEN IS : 69
RECORD LENGTH IS : 21

029

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MO
1153392	331850	5415799	55	5	10	80	10	5	-	-	15
1153397	336800	5411549	55	2	15	50	10	5	-	-	5
1153398	334599	5411800	55	2	20	25	5	5	-	-	5
1153399	334700	5411950	55	2	10	45	5	5	-	-	10
1153400	333200	5412399	55	2	10	35	10	5	-	-	20
1153401	333300	5412400	55	2	10	10	5	5	-	-	10
1153404	335899	5414700	55	5	70	50	10	5	-	-	10
1153405	335975	5414700	55	2	2	40	10	5	-	-	5
1153421	333999	5405150	55	5	5	105	15	5	-	-	30
1153617	331951	5415799	55	10	10	80	100	5	-	-	40
1153620	333000	5414824	55	5	10	5	30	5	-	-	10
1153621	332850	5414850	55	5	15	15	75	5	-	-	35
1153622	336050	5410650	55	10	5	30	50	5	-	-	25
1153623	335950	5410300	55	5	10	15	45	5	-	-	20
1153624	336750	5411749	55	10	10	30	70	5	-	-	30
1153625	335250	5412125	55	5	10	20	45	5	-	-	20
1153626	335425	5412350	55	5	10	10	30	5	-	-	20
1153627	335575	5413549	55	5	10	10	30	5	-	-	15
1153630	335549	5414660	55	5	15	25	40	5	-	-	10
1153631	336310	5414340	55	10	5	30	10	5	-	-	15
1153645	334999	5406180	55	5	5	10	5	5	-	-	15
1153647	334409	5408299	55	5	5	10	10	5	-	-	20
1153648	334295	5408420	55	5	5	20	15	5	-	-	30
1153649	333860	5404550	55	5	5	15	15	5	-	-	35
1153650	333248	5403440	55	10	10	45	25	5	-	-	55
1153655	333879	5399780	55	2	5	15	10	5	-	-	10
1153697	333099	5413999	55	5	10	10	15	5	-	-	25
1153698	332999	5414200	55	2	10	10	5	5	-	-	10
1153699	335951	5411300	55	10	10	40	25	5	-	-	30
1153700	335199	5410150	55	10	5	40	25	5	-	-	45
1153701	334149	5411550	55	2	10	20	10	5	-	-	15
1153702	334100	5411699	55	5	10	20	10	5	-	-	15
1153703	333000	5413100	55	5	10	15	15	5	-	-	30
1153704	332899	5413199	55	5	10	25	15	5	-	-	20
1153713	336150	5411349	55	5	5	25	15	5	-	-	25
1153719	334800	5409550	55	5	5	25	10	5	-	-	25
1153720	336900	5409600	55	5	10	20	10	5	-	-	20
1153721	333299	5404000	55	10	5	360	20	5	-	-	35
1153722	336001	5403000	55	5	10	110	20	5	-	-	35
1153723	336049	5403000	55	5	10	20	5	5	-	-	15
1153724	335498	5400500	55	5	5	200	20	5	-	-	40
1153727	333450	5395550	55	5	5	35	15	5	-	-	15
1153731	336800	5394600	55	5	5	55	15	5	-	-	15
1153769	332200	5414699	55	5	15	40	20	5	-	-	35
1153770	332100	5414800	55	10	20	95	25	5	-	-	40
1153771	336100	5411050	55	10	10	70	25	5	-	-	40
1153772	336100	5411600	55	30	15	145	15	5	-	-	25
1153773	336400	5412700	55	5	5	35	15	5	-	-	20
1153774	333850	5413900	55	5	10	40	15	5	-	-	25
1153775	334000	5413950	55	5	10	15	15	5	-	-	20
1153787	334449	5410700	55	2	10	45	15	5	-	-	15
1153788	336800	5409800	55	10	5	80	25	5	-	-	40
1153789	336625	5409700	55	5	5	25	15	5	-	-	20
1153790	336900	5405875	55	2	5	45	15	5	-	-	15
1153792	335574	5404725	55	5	5	15	15	5	-	-	20
1153795	336900	5399500	55	5	5	90	15	5	-	-	20
1153796	336799	5399350	55	5	10	40	15	5	-	-	15
1153797	334400	5398700	55	2	5	30	10	5	-	-	15
1153798	334400	5398500	55	5	2	70	20	5	-	-	20
1153872	334151	5405050	55	2	5	5	5	5	-	-	10

189030

030

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MO
1153873	333800	5407099	55	5	5	40	25	5	-	-	40
1153874	333899	5406999	55	5	5	20	25	5	-	-	35
1153875	336230	5407000	55	5	5	40	20	5	-	-	30
1153878	333300	5403650	55	5	5	25	10	5	-	-	25
1153883	333130	5400699	55	2	15	15	5	5	-	-	5
1153884	333250	5400750	55	5	10	40	15	5	-	-	30
1153885	333799	5398450	55	2	5	20	5	5	-	-	5
1153886	333549	5396700	55	5	5	15	10	5	-	-	10
1153887	333549	5395400	55	5	10	10	5	5	-	-	5

189031

031

SAMPLE NO.	FEZ	MN	AS	SN	W	BA	AU(B)	AUP
1153392	0.79	70	2	2.5	40	180	-	-
1153397	1.32	240	5	2.5	20	170	-	-
1153398	0.96	210	2	2.5	30	100	-	-
1153399	0.9	75	3	2.5	40	180	-	-
1153400	0.77	75	1	2.5	50	160	-	-
1153401	0.55	95	1	2.5	30	100	-	-
1153404	1.86	105	5	2.5	20	400	-	-
1153405	1.64	90	4	2.5	5	480	-	-
1153421	0.88	70	2	2.5	70	10	-	-
1153617	2.3	125	3	2.5	90	40	-	-
1153620	0.66	60	1	2.5	20	70	-	-
1153621	1.58	100	1	2.5	70	100	-	-
1153622	2	110	3	2.5	40	320	-	-
1153623	1.27	100	2	2.5	40	120	-	-
1153624	2.22	125	5	2.5	60	80	-	-
1153625	1.86	115	7	2.5	40	250	-	-
1153626	1.26	75	4	2.5	30	190	-	-
1153627	0.82	65	2	2.5	30	110	-	-
1153630	1.51	80	2	5	50	210	-	-
1153631	1.49	90	4	2.5	40	290	-	-
1153645	0.65	55	1	2.5	50	100	-	-
1153647	0.7	50	0.5	2.5	60	50	-	-
1153648	0.88	70	0.5	2.5	80	60	-	-
1153649	1.13	85	0.5	2.5	100	50	-	-
1153650	1.79	125	2	-	-	-	-	-
1153655	1.38	65	1	2.5	30	210	-	-
1153697	0.84	70	1	2.5	70	70	-	-
1153698	0.63	65	1	2.5	30	130	-	-
1153699	2.02	170	7	2.5	90	130	-	-
1153700	1.45	110	2	2.5	140	80	-	-
1153701	0.67	70	0.5	2.5	50	60	-	-
1153702	1.16	75	3	2.5	60	150	-	-
1153703	1.2	80	1	2.5	90	150	-	-
1153704	1.05	65	1	2.5	60	230	-	-
1153713	1.8	115	4	-	-	-	-	-
1153719	0.91	75	2	2.5	80	60	-	-
1153720	1.3	105	5	2.5	70	180	-	-
1153721	1.41	135	2	-	-	-	-	-
1153722	1.41	135	2	2.5	90	100	-	-
1153723	0.75	70	1	2.5	60	100	-	-
1153724	1.32	100	1	2.5	130	40	-	-
1153727	1.87	115	2	2.5	50	330	-	-
1153731	1.41	90	3	2.5	70	220	-	-
1153769	1.17	85	2	2.5	110	130	-	-
1153770	1.59	120	6	-	-	-	-	-
1153771	1.47	110	5	2.5	110	80	-	-
1153772	1.47	135	7	2.5	60	200	-	-
1153773	1.7	90	7	2.5	60	190	-	-
1153774	1.12	145	2	2.5	80	70	-	-
1153775	1.19	90	2	2.5	80	130	-	-
1153787	1.44	75	4	2.5	40	170	-	-
1153788	2.2	165	12	2.5	130	100	-	-
1153789	1.09	105	4	2.5	60	200	-	-
1153790	0.64	60	2	2.5	50	120	-	-
1153792	1.11	95	3	2.5	70	150	-	-
1153795	1.13	65	5	2.5	60	160	-	-
1153796	1.05	80	5	2.5	50	130	-	-
1153797	1.33	80	3	2.5	40	180	-	-
1153798	2.03	105	4	2.5	60	220	-	-
1153872	0.42	35	1	2.5	40	70	-	-

189032

032

SAMPLE NO.	FEZ	MN	AS	SN	W	BA	AU(B)	AUP
1153873	1.28	95	2	2.5	130	70	-	-
1153874	1.23	95	1	2.5	130	60	-	-
1153875	1.15	90	2	2.5	100	120	-	-
1153878	0.82	65	1	2.5	70	60	-	-
1153883	0.48	95	2	2.5	10	90	-	-
1153884	1.15	95	2	2.5	80	60	-	-
1153885	1.08	45	3	2.5	30	170	-	-
1153886	1.29	50	3	2.5	20	200	-	-
1153887	0.9	55	4	2.5	30	180	-	-

NUMBERS THAT ARE CODED - REPRESENT 'SPECIAL VALUES'.
THESE VALUES WILL BE EXCLUDED FROM ALL CALCUALTIONS IN THE
GASF SYSTEM.

189033

033

189034

APPENDIX III

ROCK CHIPS - ASSAY RESULTS

KEY TO ROCK SAMPLE FIELD SHEET

- Sample Number** - CRAE 6 or 7 digit No.
- East** - AMG or Local Grid Co-ordinate in m.
- North** - AMG or Local Grid Co-ordinate in m.
- Zone/LG** - AMG Zone or L for Local Grid.
- Sample Type** - DSR5 Code.
- From - To** - Is m where applicable.
- Width** - Width of sample interval in m.
- Exposure** - Outcrop (O), Float (F), Uncertain (U), Core or Cuttings (C).
- Rock Types** - Rock Type Code.
- Alteration** - Alteration Code.
- Mineralisation**
- Visible** - None visible (N), Trace (T), Disseminated (D), Abundant (A).
- Style** - Mineralisation Style Code.
- Major** - Mineral Code.
- Min. 1 & 2** - Mineral Code.
- Gangue** - Mineral Code.
- Age** - Geological Age Code.
- Major Strat. Unit** - Symbol on 1:250 000 sheet
- Grain Size** - Grain Size Code.
- Texture** - Texture Code.
- Colour**
- Look** - Other item of interest recorded in the Geological observations column (Y/N).

1 yte	TRAC	Fine Intermed	ASBS	Hornblende	HORN	Stannite	STAN	Amygdaloidal	AM
Acid Lava	ACLV	Intr.	ASBT	Muherite	HUBN	Staurolite	STAR	Pyroclastic	PC
Acid Pyroclast	ACPY	Syenite	AZUR	Ilmenite	ILMN	Stibnite	STIB	Flow Banded	FB
Metamorphic									
Dolerite	DOLR	Diorite	DIOR	Iron Oxides	FEOX	Stilpnomelane	STIL	Granoblastic	GB
Coarse Acid Intr.	CAIN	Basalt	BAST	Jadite	JADT	Sulphate	SLPT	Aphanitic	AF
Medium Acid Intr.	MAIN	Bauxite	BAUX	Jarosite	JARS	Sulphides	SLPD	Porphyritic	PR
Fine Acid Intr.	FAIN	Bentonite	BENT	Jasper	JASP	Sylvite	SYLV	/Porphyroblastic	PR
Granite	GRAN	Beryl	BERY	Kaolin	KAOL	Talc	TALC	Pegmatitic	PG
Aplite	APLT	Biomite	BIOT	Kyanite	KYAN	Tantalite	TANT	Migmatitic	MG
Adamellite	ADAM	Bismuth	BISM	Labradorite	LABR	Telluride	TELR	Gneissic	GN
Granodiorite	GRDR	Bismuthinite	BISM	Lepidolite	LEPD	Tennantite	TENT	Schistose	SC
Quartz Porphyry	QUPR	Situmen	SITM	Leucite	LEUC	Tetrahedrite	TETR	Cataclastic	CC
Quartz Feldspar	QFSP	Boracite	BORC	Leucosene	LEUC	Thorite	THOR	Bioclastic	BC
Porphyry	OPFR	Borax	BORX	Limonite	LIMN	Topaz	TOPE		
Slate/Phyllite	SLAT	Boulangerite	BOUL	Loellingite	LOEL	Torbernite	TORB		
Quartzite	QTZT	Brookite	BRON	Magnetite	MAGH	Tourmaline	TOUR		
Meta Sediment	MSFD	Calcite	BRUC	Magnetite	MAGT	Tremolite	TREM		
Fine	MSFN	Carbonate	CARB	Magnetite	MAGT	Uraninite	URAN		
Meta Sediment	MSFD	Carbonate	CARB	Malachite	MALC	Uranophane	URPH		
Course	MSFC	Carbonite	CARB	Manganite	MANG	Uranohorite	URTH		
Metavolcanic	MTVL	Cassiterite	CASS	Marcasite	MARC	Vanadinite	VAND		
Greenachist	CRSC	Celestite	CELS	Martite	MART	Vermiculite	VERM		
Schist Undiff	SCUD	Carassite	CERS	Melilite	MELT	Vesuvianite	VESV		
Schist Mafic	SCMF	Chalcocopy	CHCW	Mercury	MERC	Willemitite	WILM		
Schist Leuco	SCLC	Chalcocite	CHCT	Mica	MICA	Willyamite	WILY		
Schist Amphibole	SCAM	Chalcopyrite	CHPY	Microcline	MICR	Witherite	WITH		
Schist	SCSH	Chamosite	CHAM	Molybdenite	MOLY	Wolframite	WOLF		
Andalusite	SCAN	Chert	CHER	Monazite	MONZ	Wollastonite	WOLS		
Schist Biotite	SCSB	Chlorite	CHLR	Montmorillonite	MONT	Zeolite	ZEOL		
Schist Chlorite	SCCH	Chrom Diopside	CHDP	Muscovite	MUSC	Zincite	ZINC		
Schist Garnet	SCGR	Chrom Spinel	CHSP	Nepheline	NEPH	Zircon	ZIRC		
Schist Muscovite	SCMS	Chromite	CHRM	Nephrite	NEPT				
Schist Mica	SCMC	Chrysothile	CHRY	Ochre	OCHR				
Schist Pelitic	SCPL	Cinnabar	CINN	Oligoclase	OLIG				
Schist Psammitic	SCPS	Clay	CLAY	Olivine	OLIV				
Schist Sericitic	SCSR	Clinopyroxene	CLPX	Opal	OPAL				
Schist Quartz	SCSQ	Clinzoisite	CLZS	Orthoclase	ORCL				
Mica	SCOM	Cobaltite	COBL	Orthopyroxene	ORPX				
		Collophane	COLP	Pentlandite	PENT				
		Columbite	COLM	Perthite	PERT				
		Copper	CNPT	Phlogopite	PHLG				
		Cordierite	CORD	Phosphate	PHOS				
		Corundum	CORN	Picro-ilmenite	PCIL				
		Covellite	COVL	Pitchblende	PITC				
		Crocidolite	CROC	Plagioclase	PLAG				
		Cryolite	CRYL	Platinum	PTNT				
		Cubanite	CUBM	Potash Feldspar	PTFL				
		Cumingtonite	CUMN	Prehnite	PREH				
		Cuprite	CUPR	Proustite	PROS				
		Diamond	DIAM	Pumpellyite	PUMP				
		Digenite	DIGN	Pyargyrite	PYAR				
		Diopside	DIOP	Pyrite	PYRT				
		Dolomite	DOLM	Pyrochlore	PYCH				
		Electrum	ELEC	Pyrolusite	PYLS				
		Emerald	EMER	Pyroophorite	PYOR				
		Enargite	ENAR	Pyrope	PYRP				
		Enstatite	ENST	Pyrophyllite	PYPH				
		Epidote	EPID	Pyroxene	PYRX				
		Evaporites	EVAP	Pyrrhotite	PYRH				
		Fayalite	FAYL	Quartz	QUAR				
		Feldspar	FELD	Rhodochozoite	RNCH				
		Ferberite	FERB	Rhodonite	RHOD				
		Ferrodoxomite	FRDL	Ribeckite	RIBK				
		Fluorite	FLUR	Ruby	RUBY				
		Frankelite	FRAN	Rutile	RUTL				
		Fruchtite	FUCH	Salts	SALT				
		Gahnite	GAHN	Sandine	SAND				
		Galena	GALN	Sapphire	BAPH				
		Garnet	GARN	Scapolite	SCAP				
		Garnierite	GRNT	Scheelite	SCHE				
		Gibbsite	GIBS	Sericite	SERC				
		Glass	GLAS	Serpentine	SERP				
		Glaucophane	GLAC	Siderite	SIDR				
		Goethite	GOET	Silica	SILC				
		Gold	AUNT	Silicate	SICT				
		Graphite	GRAP	Sillimanite	SILL				
		Grossularite	GRGS	Silver	AGNT				
		Guano	GUAN	Sulphur	SHIT				
		Gypsum	GYPG	Smoky Quartz	SMQT				
		Halite	HALT	Specularite	SPEC				
		Haasewoodite	HAEZ	Spessartine	SPES				
		Hedenbergite	HEDN	Sphalerite	SPHL				
		Heulandite	HEUL	Sphene	SPHN				
		Ilmenite	ILMN	Spinel	SPIN				

ALTERATION CODE

Argillisation	ARGL	Albitisation	ALBT
Calc Silicate	CLSL	Carbonatation	CARB
Chloritisation	CHLR	Dolomitisation	DOLM
Ferrogilisation	FERG	Kaolinisation	KAOL
Potassic	POTS	Propylitisation	PROP
Pyritisation	PYRT	Saundersitisation	SAUS
Sericitisation	SERC	Silicification	SILC
Tourmalinisation	TOUR	Zeolitisation	ZEOL
Other	OTHR		

MINERALISATION STYLE CODE

Stratabound	SB
Discordant	DC
Veins/Mat Veining	SV
Stockwork	SN
Fault/Joints	FL
Shear	SH
Pods	PD
Disseminated	DS
Semi Massive	SM
Massive	MS
Skarn	SK
Pipe	PP
Boxwork (or poss assoc. of min)	BN
Placer	PL
Eluvial	EL

MINERAL CODE

Actinolite	ACTN
Adularia	ADUL
Agate	AGAT
Alkali Feldspar	ALFL
Albite	ALBT
Allanite	ALAN
Alunite	ALUN
Ambygonite	AMBL
Asbestos	ASBT
Amphibole	AMPH
Andalusite	ANDL
Andesine	ANDS
Anhydrite	ANHY
Ankerite	ANKR
Anthophyllite	ANTH
Antimonite	ANTM
Antimony Native	SBNT
Apatite	APAT
Argonite	ARGG
Argonite	ARGN
Arsenic	ASNT
Arsenopyrite	ARPY

Sediments - Chemical

Carbonate		Agglomerate	AGLM
Undiff	CRUD	Lapilli Tuff	LPTT
Limestone	LIMS	Ash Flow Tuff	AFTT
Dolomite	DOLM	Ignimbrite	IGNM
Travertine	TRAV	Crystal Tuff	CRTP
Argillaceous		Vitric Tuff	VITP
Limestone	ANLM	Oxidation	ONSD
Chert	CHER	Mudflows	MUDF
Jasperoid	JASP	Tuffaceous	TUFA
Evaporite	EVAP	Sandstone	TFSS
Phosphate Rock	PHRC	Tuffaceous	TFSS
Magnetite	MGST	Shale	TFSH
Iron Formation	IRFM	Basic Volc.	

Volcanics

Staurolite	GST
Granulite	GRLT
Migmatite	MIGH

Miscellaneous

Silcrete	SLRT
Calcrete	CLRT
Bauxite	BAUX
Ironstone	IRST
Laterite	LATR
Gossan	GOSS
Sulphides	SULP
Quartz Vein	QTVN
Greisen	GRES
Fubarite	FUBR
Undiff	IVUD
Andesite	ANOS
Intermed. Lava	INLV
Intermed.	
Pyroclastic	INPY
Acid Volc.	
Undiff	AVUD
Rhyolite	RHYL
Rhyodacite	RHDC
Dacite	DACT

GEOLOGICAL AGE CODE

Quaternary	QU
Tertiary	TR
Cainozoic	CN
Cretaceous	CR
Jurassic	JR
Triassic	TR
Mesozoic	MS
Permian	PR
Carboniferous	CR
Devonian	DV
Silurian	SL
Ordovician	OR
Cambrian	CH
Paleozoic	PL
Adalaidan	AD
Carpenterian	CP
Lower Proterozoic	LP
Proterozoic	PR
Archean	AR
Pre Cambrian	PC

GRAIN SIZE CODE

Clay	CL
Silt	SL
Fine Sand	FS
Coarse Sand	CS
Very Coarse Sand	VC
Granules	GR
Pebbles	PB
Cobbles	CB
Glassy	GL
Aphanitic	AP
Very Fine Grained	VF
Fine Grained	FG
Medium Grained	MG
Medium To Coarse	MC
Coarse Grained	CG
Very Coarse Grained	VG

TEXTURE CODE

Boxworks	BN
Massive	MS
Banded	BD
Crude Banded	CB
Graded Bedding	GB
Modular	ND

189033

SAMPLE NUMBER	SAMPLE LOCATION		SAMPLE DESCRIPTION					ROCK TYPE		MINERALISATION						GEOLOGICAL OBSERVATIONS								
	East	North	Zone/LG	Sample Type	From	To	Width	Exposure	Major	Minor	Alteration	Visible	Style	Major	Minor		Minor	Complex	Age	Texture	Grain Size	Colour	Bed	
																							MINOR WORKINGS TO NORTH WEST of MAIN TONER RIVER SHAFT.	
1142377	336050	5412700	55					F	QTZT			D	SH	PYRT	CHPY			PC	MC				Y	Plytic Quartzite, Sheared minor Chalcopyrite? of Mullock
1142378	336050	5412700	55					F	QTZT	SILT		D	SH	PYRT	CHLR			PC	MC				N	Plytic Quartzite with Sheared Chloritic Siltstone.
1142379	336050	5412700	55					F	QTZT			D		PYRT				PC	MC				N	Plytic Quartzite.
																								TONER RIVER SHAFT
1142381	336500	5410450	55					O	QTNV			A	SH	PYRT	CHPY	ARPY		PC	MC				N	1m. Channel sample across one zone.
1142382	336500	5410450	55					O	SILT	SILC		T		PYRT				PC	FG			Grey	Y	gray silicified siltstone & vugs of quartz & py.
1142383	336500	5410450	55					F	QTNV			A	SH	PYRT	CHPY	ARPY		PC	MC				Y	one joint mallock ferruginous quartz - minor iron oxides, py, ch, Arpy? Green Cr. Strag - Chrysocolla?
1142676	336500	5410450	55					F	SILT	SILC		D	SH	PYRT	CECL			PC					Y	Silicified siltstone & vugs & boraxites? Chrysocolla? from shaft mallock head.
																								DOHERTY'S PIMPLE
1142384	329200	5420800	55					O	QTNV	FERG		D	SH	PYRT									N	lumpy ferruginous quartzite - boraxites after py mallock.
1142385	329200	5420800	55					F	SILT	SILC									FG				Y	lgy. ferruginous spotted silicified siltstone.
1142386	329200	5420800	55					F	SILT	FERG		T		PYRT									N	Ferruginous Pyjama Siltstone
1142387	329200	5420800	55					F	QTNV	FERG		D		PYRT	HENT								N	hematitic vuggy quartzite - Dismal mine.
1142388	329200	5420800	55					O	SSUD										FG			Red	Y	lgy. red spotted sandstone.
1142389	329200	5420800	55					O	SILT			D		LEUC					FG				N	lgy. grey-green spotted siltstone - sandstone?
1142390	329200	5420800	55					D	QTNV	FERG		A	SH	PYRT	ARPY	CECL							Y	3m chip sample. Py. Ferr. D.C. Cr Strag. Chrysocolla?
1142391	329200	5420800	55					F	QTNV	FERG		A	D	PYRT	ARPY	CHPY							Y	one of mallock grab. Plytic quartzite from Arpy, Chpy.
1142392	329200	5420800	55					O	SILT	SILC		T		CHLR									Y	Spotted silic. lam. siltstone minor chrysocolla.

5 cm

PROJECT Rocky Cape 1:250000 SHEET BORNE SIC 55-3 COLLECTED BY D.J. Wess DATE Feb 84
 TENEMENT EL 1177 SAMPLE NO.S _____ LOCAL GRID CROSS REF _____
 INVESTIGATION HELICOPTER DEMONSTRATION SURVEY DPO'S 304 89



ROCK SAMPLE FIELD SHEET

CRA EXPLORATION PTY.LIMITED.

SAMPLE NUMBER	SAMPLE LOCATION			SAMPLE DESCRIPTION				ROCK TYPE			MINERALISATION						GEOLOGICAL OBSERVATION							
	EAST	NORTH	ZONE/LG	SAMPLE TYPE	CORRESPONDING STREAM SEDIMENT NUMBER	WIDTH	EXPOSURE	MAJOR	MINOR	ALTERATION	VISIBLE	STYLE	MAJOR	MINOR	MINOR	GANGUE	AGE	MAJOR STR. UNIT	GRAINSIZE	TEXTURE	COLOUR	LOOK		
1142868	333099	5413999			1153174		0	Silt										SL					Foliated Siltstone	
1142869	335199	5410150			1153175		0	Qtzt										FS					Weakly foliated white quartzite	
1142870	334149	5411550			1153176		0	Silt			D	DS	Pyrt					SL	CB				Laminated pyjama siltstone w/- ~3% di pyrite blebs. Pale green mineral in and around py blebs	
1142871	334100	5411699			1153177		0	Silt										SL					Laminated pyjama siltstone	
1142872	333000	5413100			1153178		F	Qtzt										FS	M				Laminated quartzite	
1142873	332899	5413199			1153179		F	Silt										SL	CB			Y	White foliated siltstone w/- ~60% pale green spherical spots	
1142882	336150	5411349			1153188		F	Silt												MS			N	Quartz vein
1142888	334800	5409550			1153194		F	Qtvn															Y	Quartzite with about 10% spherical chlorite spots
1142889	336900	5409600			1153195		F	Qtzt		CHLR													N	Weakly laminated quartzite
1142890	333299	5404000			1153196		0	Qtzt										FS					N	Several quartzite pebbles only
1142891	336001	5403000			1153197		F	Qtzt										SL					N	Black slate
1142892	336049	5403000			1153198		0	Slat										FS					N	White quartzite
1142893	335498	5400500			1153199		F	Qtzt										MS					N	Quartz vein
1142894	333450	5395550			1153202		0	Qtvn										SL					N	Grey foliated siltstone
1142896	336800	5394600			1153206		0	Silt			N							MS	BD	LY				270°/45°N silty s/s, laminated
1142917	331951	5415799			1153242		0	Ssud			N							BD	LPK				Y	HM bands
1142920	333000	5414824			1153245		0	Silt	Ssud		N							FG	BD	LY			Y	275°/15°N Silt/ssud interbeds
1142921	332850	5414850			1153246		0	Silt	Qtzt		N												Y	20°/65°E pyjama silts
1142922	336050	5410650			1153247		F	Qtzt	Silt		N												Y	45°/30°NW
1142923	335950	5410300			1153248		0	Silt	Qtzt		N												Y	Silt interbeds
1142924	336750	5411749			1153249		0	Qtzt	Silt		T	DS	Pyrt										Y	Heavy Fe staining
1142925	335250	5412125			1153250		0	Qtzt	Silt		N												Y	
1142926	335425	5412350			1153251		F	Qtzt	Qtvn		T	DS	HM										N	
1142927	335575	5413549			1153252		F	Qtzt	Silt		N												Y	260°/30°N convolute lam.
1142930	335549	5414660			1153255		0	Silt	Qtzt		N													

PROJECT INTERVIEW PINNACLES
 TENEMENT EL 36/80
 INVESTIGATION REGIONAL HELI SAMPLING

1:250 000 SHEET BURNIE SK55-5
 SAMPLE NOS
 DPOS 30485

COLLECTED BY _____
 LOCAL GRID CROSS REF _____

DATE February 1984

189038

2.

037

ROCK SAMPLE FIELD SHEET

CRA EXPLORATION PTY.LIMITED.

SAMPLE NUMBER	SAMPLE LOCATION		SAMPLE DESCRIPTION				ROCK TYPE			MINERALISATION						GEOLOGICAL OBSERVATIONS							
	EAST	NORTH	ZONE/LG	SAMPLE TYPE	CORRESPONDING STREAM SEDIMENT NUMBER	WIDTH	EXPOSURE	MAJOR	MINOR	ALTERATION	VISIBLE	STYLE	MAJOR	MINOR	MINOR	GANGUE	AGE	MAJOR STR. UNIT	GRAINSIZE	TEXTURE	COLOUR	LOOK	
1142931	336310	5414340			1153256		O	Silt	Ssud														Y 327°/40°NE laminated, ssud
1142945	334999	5406180			1153270		O	AMPH															N Pk-wh massive qtzites
1142947	334409	5408299			1153272		F	QTZT	SILT														Y 205°/85°E
1142948	334295	5408420			1153273		O	QTZT															Y 15°/45°E sed structure
1142949	333860	5404550			1153274		O	QTZT	SHAL														Y 150°/30°NE massive
1142950	333248	5403440			1153275		O	QTZT											SL	BD			N
1142969	332200	5414699			1153094		F	SILT											SL	BD			N
1142970	332100	5414800			1153095		F	SILT											FS	BD			N
1142971	336100	5411050			1153096		F	SSUD			T	DS	PYRT						SL				Y Slightly silicified
1142972	336100	5411600			1153097		O	SILT											SL				N
1142973	336400	5412700			1153098		F	SILT			T	SB	PYRT						SL	BD			Y Dark grey mineral with pyrite
1142974	333850	5413900			1153099		F	SILT															Y Possibly pyritic
1142975	334000	5413950			1153100		F	SILT											CG				Feruginous, greenish quartz
1142987	334449	5410700			1153112		F	QTVW		FERG									CG				Amphibolite
1142988	334449	5410700			1153112		F	AMPH											FG	BD			Pyjama siltstone grab
1142989	336800	5409800			1153113		O	SILT		FERG									FG	BD			Pyjama siltstone grab
1142990	336625	5409700			1153114		O	SILT											CG				Amphibolite
1142991	336625	5409700			1153114		F	AMPH											FG	BD			Feruginous pyritic pyjama siltstone
1142992	336900	5405875			1153115		O	SILT		FERG	T	DS	PYRT						FG	BD			Micaceous siltstone
1142994	335574	5404725			1153117		F	SILT											FG	BD	Green		Green lam siltstone pyjrock
1142997	336900	5399500			1153120		O	SILT															Quartzite
1142998	336799	5399350			1153121		F	QTZT											FG	BD			Green lam. siltstone
1142999	334400	5398700			1153122		O	SILT														1	D.20°N ST 090°
1153839	331850	5415799			1142817		O	SILT															Feruginous? brecciated fg qzt
1153843	334599	5411800			1142823		O	QTZT				BW	FERG										Pyj silt ST? 040°
1153844	334700	5411950			1142824		O	SILT														1	Sandy siltstone - pyjama rock
1153846	335975	5414700			1142830		O	SILT														1	St 300 D 5°N Fg grey qzt
1153855	333999	5405150			1142846		O	QTZT															

DATE February 1984

COLLECTED BY

LOCAL GRID CROSS REF

1:250 000 SHEET

BURNIE SK55-5

PROJECT INTERVIEW PINNACLES

TENEMENT EI 36/80

INVESTIGATION REGIONAL HELI SAMPLING

SAMPLE NOS

DPOS

30485

189039

3.

038

ROCK SAMPLE FIELD SHEET

CRA EXPLORATION PTY.LIMITED.

SAMPLE NUMBER	SAMPLE LOCATION		SAMPLE DESCRIPTION				ROCK TYPE			MINERALISATION						GEOLOGICAL OBSERVATION							
	EAST	NORTH	ZONE/LG	SAMPLE TYPE	CORRESPONDING STREAM SEDIMENT NUMBER	WIDTH	EXPOSURE	MAJOR	MINOR	ALTERATION	VISIBLE	STYLE	MAJOR	MINOR	MINOR	GANGUE	AGE	MAJOR STR. UNIT	GRAINSIZE	TEXTURE	COLOUR	LOOK	
1153856	336250	5407000			1153050		O	QTZT															1 Fine grained grey quartzite
1153858	333300	5403650			1153053		F	QTZT															1 Fine grained buff quartzite
1153862	333549	5396700			1142061		F	SILT															1 Silty slates
1153863	333549	5396700			1142061		O	QTVN															1 Large (5m thick) qvn? Au 3Kg sample
1153864	333549	5395400			1142062		F	SILT															1 Grey-green lam siltstones

PROJECT INTERVIEN PINNACLES
 TENEMENT EI. 36/80
 INVESTIGATION REGIONAL HELI SAMPLING

1:250 000 SHEET
 SAMPLE NOS
 DPOs

BURNIE SK55-5

COLLECTED BY
 LOCAL GRID CROSS REF

DATE February 1984

30485

24-JAN-85

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*      *      *      *      *      *      *
*      *      ***** *      *      *****
*      *      *      *      *      *      *
***** ***** ***** *      ***** * **

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A PROGRAM IN THE G4SP SYSTEM TO
PRINT A LISTING OF A DATA SET

VERSION 4.0 AUG 1983.

DATA TITLE: SAMPLE TYPE ROCK

THE FOLLOWING VARIABLES ARE IN THE DATA SET:

EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG
MO	FEZ	MN	AS	SN	W	BA	AU(B)	AUP	

LISTING OF ARCHIVAL INFORMATION FOR THE INPUT DATA

***** ARCHIVAL INFORMATION WAS ABSENT IN ORIGINAL DATA *****

***** INFORMATION ADDED BY CRUNCH *****

***** THE FOLLOWING SPECIAL VALUES WERE RECODED TO EQUAL -1234.567 *****

VARIABLE NAME SPECIAL VALUE

EAST	-1.000
NORTH	-1.000
ZONE	-1.000
CU	-1.000
PB	-1.000
ZN	-1.000
NI	-1.000
CO	-1.000
CR	-1.000
AG	-1.000
MO	-1.000
FEZ	-1.000
MN	-1.000
AS	-1.000
SN	-1.000
W	-1.000
BA	-1.000
AU(B)	-1.000
AUP	-1.000

***** NO TRANSFORMATIONS OR SELECTIONS WERE MADE DURING CRUNCH *****

NUMBER OF RECORDS WRITTEN IS : 69
RECORD LENGTH IS : 21

041

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MO
1142377	336049	5412700	55	95	10	20	-	-	-	1	15
1142378	336049	5412700	55	90	30	25	-	-	-	1	15
1142379	336049	5412700	55	95	10	15	-	-	-	0.5	15
1142381	336500	5410450	55	31000	35	70	-	-	-	13	10
1142382	336500	5410450	55	810	2	20	-	-	-	1	10
1142383	336500	5410450	55	94000	55	135	-	-	-	24	10
1142395	334400	5398500	55	2	2	65	20	15	-	1	-
1142676	336500	5410450	55	17600	5	45	-	-	-	6	10
1142755	333879	5399780	55	5	5	5	5	2	-	0.5	-
1142765	336600	5409450	55	10	15	30	20	5	-	1	-
1142766	336099	5410000	55	5	5	30	15	5	-	1	-
1142868	333099	5413999	55	5	5	60	15	10	-	1	-
1142869	335199	5410150	55	10	30	25	5	2	-	0.5	-
1142870	334149	5411550	55	15	50	25	10	10	-	0.5	-
1142871	334100	5411699	55	40	10	30	10	5	-	1	-
1142872	333000	5413100	55	2	5	15	5	2	-	0.5	-
1142873	332899	5413199	55	2	5	15	5	2	-	0.5	-
1142882	336150	5411349	55	5	10	50	10	10	-	1	-
1142888	334800	5409550	55	2	5	5	5	5	-	0.5	-
1142889	336900	5409600	55	5	5	2	15	5	-	0.5	-
1142890	333299	5404000	55	5	2	5	10	5	-	0.5	-
1142891	336001	5403000	55	2	5	5	5	5	-	0.5	-
1142892	336049	5403000	55	5	5	15	2	2	-	0.5	-
1142893	335498	5400500	55	5	5	5	5	2	-	0.5	-
1142894	333450	5395550	55	2	5	5	5	5	-	0.5	-
1142896	336800	5394600	55	5	5	45	20	15	-	1	-
1142917	331951	5415799	55	5	5	25	5	5	-	1	-
1142920	333000	5414824	55	5	10	5	5	5	-	0.5	-
1142921	332850	5414850	55	5	5	20	5	5	-	0.5	-
1142922	336050	5410650	55	5	15	30	5	5	-	0.5	-
1142923	335950	5410300	55	5	5	5	10	5	-	0.5	-
1142924	336750	5411749	55	5	2	70	20	10	-	1	-
1142925	335250	5412125	55	5	2	15	5	5	-	0.5	-
1142926	335425	5412350	55	10	5	10	5	5	-	0.5	-
1142927	335575	5413549	55	10	5	5	5	2	-	0.5	-
1142930	335549	5414660	55	10	5	65	15	5	-	1	-
1142931	336310	5414340	55	10	15	60	20	15	-	1	-
1142945	334999	5406180	55	55	10	45	35	25	-	2	-
1142947	334409	5408299	55	2	2	5	5	2	-	0.5	-
1142948	334295	5408420	55	2	2	5	10	5	-	0.5	-
1142949	333860	5404550	55	2	2	5	5	2	-	0.5	-
1142950	333248	5403440	55	2	2	5	10	5	-	0.5	-
1142969	332200	5414699	55	5	10	10	10	5	-	0.5	-
1142970	332100	5414800	55	2	2	20	5	5	-	0.5	-
1142971	336100	5411050	55	2	2	5	10	5	-	0.5	-
1142972	336100	5411600	55	2	2	70	25	15	-	1	-
1142973	336400	5412700	55	20	10	35	10	10	-	1	-
1142974	333850	5413900	55	5	5	40	10	5	-	0.5	-
1142975	334000	5413950	55	2	2	25	5	5	-	0.5	-
1142987	334449	5410700	55	2	5	10	10	5	-	0.5	-
1142988	334449	5410700	55	5	5	30	25	15	-	1	-
1142989	336800	5409800	55	5	10	40	5	5	-	0.5	-
1142990	336625	5409700	55	5	10	35	5	5	-	0.5	-
1142991	336625	5409700	55	25	10	35	30	20	-	2	-
1142992	336900	5405875	55	35	15	25	10	5	-	0.5	-
1142994	335574	5404725	55	2	2	20	10	5	-	0.5	-
1142997	336900	5399500	55	5	5	85	20	10	-	1	-
1142998	336799	5399350	55	5	5	15	5	5	-	0.5	-
1142999	334400	5398700	55	2	2	65	25	20	-	1	-
1153839	331850	5415799	55	20	20	20	5	2	-	1	-

189042

042

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MO
1153843	334599	5411800	55	130	10	20	5	5	-	0.5	-
1153844	334700	5411950	55	10	5	10	2	5	-	1	-
1153846	335975	5414700	55	10	5	50	10	5	-	1	-
1153855	333999	5405150	55	2	2	2	5	2	-	0.5	-
1153856	336250	5407000	55	5	5	5	5	2	-	0.5	-
1153858	333300	5403650	55	2	2	5	5	5	-	0.5	-
1153862	333549	5396700	55	30	25	100	25	10	-	1	-
1153863	333549	5396700	55	2	5	2	5	2	-	0.5	-
1153864	333549	5395400	55	15	10	40	10	10	-	1	-

189043

043

SAMPLE NO.	FEX	MN	AS	SN	W	BA	AU(B)	AUP
1142377	3.61	50	220	2.5	10	30	-	0.4
1142378	3.4	120	18	2.5	5	70	-	0
1142379	4.99	55	500	2.5	10	40	-	0.09
1142381	7.43	50	26	2.5	5	190	-	0.08
1142382	2.62	140	5	2.5	5	430	-	0
1142383	7.89	35	3	5	5	140	-	0.08
1142395	-	-	3	2.5	5	680	-	-
1142676	2.5	130	8	2.5	5	140	-	0.01
1142755	-	-	0.5	2.5	5	60	-	-
1142765	-	-	3	2.5	5	370	-	-
1142766	-	-	12	2.5	10	120	-	-
1142868	-	-	36	2.5	5	600	-	-
1142869	-	-	24	2.5	5	820	-	-
1142870	-	-	10	2.5	5	610	-	-
1142871	-	-	7	2.5	5	520	-	-
1142872	-	-	16	2.5	5	820	-	-
1142873	-	-	44	2.5	5	730	-	-
1142882	-	-	34	2.5	5	340	-	-
1142888	-	-	30	2.5	5	20	-	-
1142889	-	-	22	2.5	5	5	-	-
1142890	-	-	28	2.5	5	360	-	-
1142891	-	-	14	2.5	5	30	-	-
1142892	-	-	70	2.5	10	1100	-	-
1142893	-	-	16	2.5	5	70	-	-
1142894	-	-	24	2.5	5	10	-	-
1142896	-	-	110	5	5	740	-	-
1142917	-	-	10	2.5	5	420	-	-
1142920	-	-	6	2.5	5	380	-	-
1142921	-	-	10	2.5	5	530	-	-
1142922	-	-	8	2.5	5	920	-	-
1142923	-	-	6	2.5	5	180	-	-
1142924	-	-	7	2.5	5	730	-	-
1142925	-	-	6	2.5	5	440	-	-
1142926	-	-	3	2.5	5	60	-	-
1142927	-	-	2	2.5	5	40	-	-
1142930	-	-	6	2.5	5	630	-	-
1142931	-	-	4	2.5	5	670	-	-
1142945	-	-	2	2.5	5	480	-	-
1142947	-	-	1	2.5	5	190	-	-
1142948	-	-	2	2.5	5	300	-	-
1142949	-	-	0.5	2.5	10	410	-	-
1142950	-	-	1	2.5	10	920	-	-
1142969	-	-	3	2.5	5	330	-	-
1142970	-	-	20	5	10	680	-	-
1142971	-	-	24	2.5	5	260	-	-
1142972	-	-	30	2.5	5	970	-	-
1142973	-	-	24	2.5	5	500	-	-
1142974	-	-	10	2.5	5	220	-	-
1142975	-	-	2	2.5	5	450	-	-
1142987	-	-	36	2.5	5	110	-	-
1142988	-	-	36	2.5	5	420	-	-
1142989	-	-	85	2.5	5	590	-	-
1142990	-	-	46	2.5	5	500	-	-
1142991	-	-	48	2.5	5	450	-	-
1142992	-	-	70	2.5	5	600	-	-
1142994	-	-	24	0	0	0	-	-
1142997	-	-	36	2.5	5	490	-	-
1142998	-	-	36	2.5	5	60	-	-
1142999	-	-	24	2.5	5	660	-	-
1153839	-	-	38	2.5	5	600	-	-

189044

SAMPLE NO.	FEZ	MN	AS	SN	W	BA	AU(B)	AUP
1153843	-	-	5	5	10	310	-	-
1153844	-	-	8	2.5	5	560	-	-
1153846	-	-	2	2.5	10	390	-	-
1153855	-	-	0.5	2.5	10	360	-	-
1153856	-	-	0.5	2.5	10	60	-	-
1153858	-	-	1	2.5	10	640	-	-
1153862	-	-	3	2.5	5	600	-	-
1153863	-	-	0.5	2.5	5	30	-	-
1153864	-	-	6	2.5	5	630	-	-

NUMBERS THAT ARE CODED - REPRESENT 'SPECIAL VALUES'.
THESE VALUES WILL BE EXCLUDED FROM ALL CALCUALTIONS IN THE
GASP SYSTEM.

045

189046

APPENDIX IV

PINNACLES ANOMALY, LEDGERS AND ASSAY RESULTS

KEY TO STREAM SEDIMENT SAMPLE FIELD SHEET

Sample No - CRAE 6 or 7 digit No.

East - AMG Coord in m.

North - AMG Coord in m.

Zone - AMG Zone.

Sample type - Mesh size.

Gravel, Sand, Silt Clay, Org - as %.

Width - Stream width in m.

Catchment - Contributing catchment area in km².

Flow - Dry (D), Pools (P), Slow (S), Fast (F)

Banks - Alluv (A), Colluv (C), Colluv/Alluv (B)
No defined channel (M)

Channel - Incised deeply (D), weakly (W),
not (N); Braided (B)

Staining - Major Fe (FEH), Minor Fe (FEL)
Major Mn (MNH), Minor Mn (MNL)
Major Carbonate (CBH), Minor Carbonate (CBL)
None (N)

Contamination - None (N), Possible (PO), Probable (PR)
Definite (D), Metal mine in catchment (M)

Site - (2 alternatives) Good (G), Moderate (M),
Poor (P) or Hole in b'rock (HB), B'rock bar
(BB), Boulders (BD), Sed. bar (SB), Veg (V),
Trap undiff (T), Random (R)

Outcrop, Float - Rock type codes.

Major Strat Unit - Symbol on 1:250 000 sheet.

Min/Alt - Attached code list (both may be recorded and
refer to outcrop or float. If more detail,
record in Geol. Obs and flag the LOOK column).

Scint - Scintillimeter reading in cps

Look - Other item of interest recorded in Geological
Observation column, Y/N.

Vegetation - Open heath (O), Eucalypt forest (F),
Rain forest (R), Ti Tree (T)
Cultivation (C), Arid grassland (A),
Desert (D).

ROCK TYPE CODE

Sediments - Clastic

Sedimentary	
Rock	SDRC
Conglomerate	CONG
Breccia	BREC
Grit	GRIT
Sandstone -	
Undiff	SSUD
Greywacke	GREY
Arkose	ARKS
Calcarenite	CLAR
Siltstone	SILT
Shale	SNAL
Calcareous	
Shale	CLSH
Black Shale+/	
Carb/Graphite ..	BLSH
Oil Shale	OLSH
Lignite	LIGN
Coal-Black	CLBL
Coal-Brown	CLBR
Mudstone	MUDS
Marl	MARL
Clay	CLAY
Tillite	TILL

Sediments - Chemical

Carbonate -	
Undiff	CRUD
Limestone	LIMS
Dolomite	DOLM
Travertine	TRAV
Argillaceous	
Limestn	ARLM
Chert	CHER
Jasperoid	JASP
Evaporite	EVAP
Phosphate Rock ..	PHRC
Magnetite	MGST
Iron Formation ..	IRFM

Miscellaneous

Silcrete	SLRT
Calcrete	CLRT
Bauxite	BAUX
Ironstone	IRST
Laterite	LATR
Gossan	GOSS
Sulphides	SULP
Quartz Vein	QTWV
Gresien	GRES
Pubarite	PUBR

Volcanics

Agglomerate	AGLM
Lapilli Tuff	LPTP
Ash Flow Tuff	AFTP
Ignimbrite	IGNM
Crystal Tuff	CRTP
Vitric Tuff	VTFP
Obsidian	OBSD
Mudflows	MUDF
Tuffaceous	
Sandstone	TFSS
Tuffaceous	
Shale	TFSH
Basic Volc.	
Undiff	BVUD
Basalt	BASL
Basic Lava	BSLV
Basic Pyroclast ..	BSPY
Intermed Volc.	
Undiff	IVUD
Andesite	ANDS
Intermed. Lava ..	INLV
Intermed.	
Pyroclastic	INPY
Acid Volc.	
Undiff	AVUD
Rhyolite	RHYL
Rhyodacite	RHDC
Dacite	DACT
Trachyte	TRAC
Acid Lava	ACLV
Acid Pyroclast ..	ACPY

Metamorphics

Metamorphic Rock	
Undiff	MRUD
Breccia	BREC
Mylonite	MLON
Gouge	Goug
Marble	MARB
Calc Silicate	CLSL
Skarn	SKAR
Hornfels	HORN
Slate/Phyllite ..	SLAT
Quartzite	QTZT
Meta Sediment -	
Fine	MSFN
Meta Sediment -	
Course	MCCR
Metavolcanic	MTVL
Greenschist	GRSC
Schist Undiff	SCUD
Schist Mafic	SCMF
Schist Leuco	SCLC
Schist Amphibole ..	SCAN
Schist	
Andalusite	SCAN
Diorite	DIOR
Schist Biotite	SCBT

Schist Chlorite ..	SCCH	Medium Acid Intr.	MAIN
Schist Garnet	SCGR	Fine Acid Intr. ..	FAIN
Schist Muscovite ..	SCMS	Granite	GRAM
Schist Mica	SCMC	Aplite	APLT
Schist Pelitic	SCPL	Adamellite	ADAM
Schist Psammitic ..	SCPS	Granodiorite	GRDR
Schist Sericite	SCSR	Quartz Porphyry ..	QUPR
Schist Quartz		Quartz Feldspar	
Mica		Porphyry	OFFR
Schist		Granophyre	GRPH
Staurolite		Pegmatite	PEGM
Schist Talc		Glass	GLAS
SCTL			
Amphibolite			
AMPH			
Gneiss Undiff			
GNUD			
Gneiss Mafic			
GNMF			
Gneiss Leuco			
GNLC			
Gneiss Amphibole ..			
GNAM			
Gneiss Augen			
GNAG			
Gneiss Biotite			
GNBT			
Gneiss Garnet			
GNGT			
Gneiss Granite			
GNGR			
Gneiss			
Sillimanite			
GNSL			
Gneiss			
Staurolite			
GNST			
Granulite			
GRLT			
Migmatite			
MIGH			

Igneous - Intrusives

Greenstone	GREEN
Ultrabasic Intr.	
Undiff	UIUD
Eclogite	ECLG
Peridotite	PERD
Serpentinite	SERP
Anorthosite	ANOR
Gabbro	GABB
Alkali Gabbro	ALGB
Norite	NORT
Picrite	PICK
Pyroxenite	PYRX
Dunite	DUNT
Carbonatite	CARB
Kimberlite	KIMB
Coarse Basic	
Intr.	CBIN
Med Basic Intr. ..	MBIN
Fine Basic Intr. ..	FBIN
Lamprophyre	LAMP
Coarse Intermed	
Intr.	CIIN
Med Intermed	
Intr.	MIIN
Fine Intermed	
Intr.	FIIN
Syenite	SYEN
Dolerite	DOLR
Diorite	DIOR
Coarse Acid Intr.	CAIN

MINERALISATION/ALTERATION CODE

Veins	VEIN	
Gossan	GOSN	
Boxworks After Sulphides ..	BOXW	
Massive Sulphides	MSSL	
Dissen. Sulphides	DSSL	
Heavy Minerals	HVMN	
Cu Staining	CUST	
Magnetic Minerals	MGMN	
Evaporites	EVAP	
Argillisation		ARGL
Albitisation		ALBT
Calc Silicate		CLSL
Carbonatation		CARB
Chloritisation		CHLR
Dolomitisation		DOLM
Ferruginisation		FERG
Kaolinisation		KAOL
Potassic		POTS
Propylitisation		PROP
Pyritisation		PYRT
Sauritisation		SAUS
Sericitisation		SERC
Silicification		SILC
Talcose		TALC
Tourmalinisation		TOUR
Zeolitisation		ZEOL
Other		OTHR

GRA EXPLORATION PTY LIMITED

STREAM SEDIMENT SAMPLE FIELD SHEET

189048

SS

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION							SITE DESCRIPTION										GEOLOGY				GEOLOGICAL OBSERVATIONS			
	East	North	Zone	Sample Type	Gravel %	Sand %	Silt %	Clay %	Org %	Width	Catchment	Flow	Bank	Channel	Staining	Contam.	Site	Outcrop	Flats		Min/Alt	Silt	Look	Notes				
Major		Minor																										
931413	336030	5395090	SS	-80"	40	30	30	-	-	25	1	F	C	N			BB	SILT	SILT	QTVN					0	Site 6 Preserved to -10"	✓	
931414	336050	5395115	SS	-80"	5	30	40	25	-	1		S	B	N			R	-	-						0	Site 5 Preserved to -10"	✓	
931415	334630	5393930	SS	-80"	-	20	40	40	-	1		S	B	N			R	-	-						0	Site 19	✓	
931416	334610	5393960	SS	-80"	20	30	30	20	-	1		S	B	N			SB	-	SILT						0	Site 18 Preserved to -10"	✓	
931417	333210	5394960	SS	-80"	40	40	20	-	-	2		S	C	N			SB	SILT	QTVN	SILT					0	Site 32 Preserved to -10" The 1st group of 10m micaceous siltstone	✓	
931418	333820	5395940	SS	-80"	20	20	60	-	-	1		S	B	N			SB	-	QTVN	SILT					0	Site 40 Preserved to -10"	✓	
931419	333575	5396700	SS	-80"	40	25	30	5	-	0.5		S	B	N			SB	-	SILT						0	Site 62 Preserved to -10"	✓	
931420	333615	5396710	SS	-80"	40	40	20	-	-	1		F	B	N			BB	SILT	SILT	QTVN					0	Site 61 Preserved to -10"	✓	
931421	333845	5396110	SS	-80"	10	30	50	10	-	1		S	B	N			SB	MUDS	MUDS						0	Site 65 Preserved to -10"	✓	
931422	334010	5399405	SS	-80"	-	5	15	80	0.5			S	B	N			R	-	-						0	Site 100	✓	
931423	334055	5399450	SS	-80"	-	5	15	80	0.5			S	B	N			R	-	-						0	Site 200	✓	
931425	333600	5396460	SS	-80"	35	5	5	50	5	1		S	C	N			SB	-	MUDS						0	Site 10 Preserved to -10"	✓	
931426	333360	5394570	SS	-80"	10	60	20	10	-	1		S	B	N			T	-	QTVN						0	Site 29 Preserved to -10"	✓	
931427	333430	5396225	SS	-80"	50	30	5	5	5	2		S	C	N			SB	SILT	QTVN	SILT					0	Site 35 Preserved to -10"	✓	
931428	333460	5396395	SS	-80"	-	40	40	20	-	0.5		D	B	B			R	-	-						0	Site 36 Preserved to -10"	✓	
931429	333020	5398090	SS	-80"	40	40	10	10	-	1.5		S	B	N			VB	SILT							0	Site 69 Preserved to -10"	✓	
931430	333915	5398330	SS	-80"	-	30	30	40	0.5			S	B	N			T	-	-						0	Site 66 Preserved to -10"	✓	
931431	333720	5398980	SS	-80"	-	30	30	40	0.5	2		F	C	N			BB	SILT							0	Site 83 Preserved to -10"	✓	
931432	333020	5399300	SS	-80"	30	30	25	10	5	1		S	C	N			SB	SILT	SILT						0	Site 90 Preserved to -10"	✓	
931433	333990	5398750	SS	-80"	35	35	20	5	5	1		S	C	N			BB	-	QTZT	QTVN					0	Site 78 Preserved to -10"	✓	
931434	333040	5397540	SS	-80"	20	20	25	25	10	1		F	B	N			T	-	-						0	Site 47 Preserved to -10"	✓	
931435	333030	5396010	SS	-80"	5	10	30	15	40	1		S	B	N			R	-	-						0	Site 53 Preserved to -10"	✓	
931436	333620	5396040	SS	-80"	5	10	30	15	40	1		S	B	N			R	-	-						0	Site 49 Preserved to -10"	✓	
931441	333800	5396490	SS	-80"	30	35	35	-	-	0.5		S	B	N			T	-	SILT	QTVN					0	Site 59 Preserved to -10"	✓	
931442	333275	5391150	SS	-80"	20	50	25	5	-	1		S	B	N			T	-	SILT	QTVN					0	Site 51 Preserved to -10"	✓	

PROJECT INTERVIEW PINNACLES. 1:250 000 SHEET BURNIE SK55-5 COLLECTED BY DW. T.S. PCM #073
 TENEMENT EL 36/80 SAMPLE NO'S DATE DEC 84
 INVESTIGATION PINNACLES ANOMALY FOLLOW UP DPO: 31962



5 cm

047

048

CRA EXPLORATION PTY LIMITED

STREAM SEDIMENT SAMPLE FIELD SHEET

189049 SS

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION							SITE DESCRIPTION							GEOLOGY				GEOLOGICAL OBSERVATIONS			
	East	North	Zone	Sample Size	Gravel %	Sand %	Silt %	Clay %	Org %	Width	Catchment	Flow	Bank	Channel	Shading	Contam.	Site	Outcrop	Float Major	Float Minor	Min/Alt	Scint	Look	Veget.	
931443	332850	5397120	SS	-80#	-	-	90	10	-	1		S	B	N	-	-	T	-	-	-	-	-	-	0	Site 52 Preserved to -10#
931444	332600	5396990	SS	-80#	-	50	50	-	-	3		D	A	B	-	-	R	-	-	-	-	-	-	0	Site 76
931445	332710	5399800	SS	-80#	65	20	15	-	-	1		S	B	N	-	-	T	-	SILT	QTVN	-	-	-	0	Site 95 Preserved to -10#
931446	332640	5399755	SS	-80#	40	50	10	-	-	0.5		S	B	N	-	-	T	-	SILT	QTVN	-	-	-	0	Site 94 Preserved to -10#
931447	332565	5399750	SS	-80#	65	25	10	-	-	1		F	B	N	-	-	T	-	QTZT	-	-	-	-	0	Site 87 Preserved to -10#
931448	332400	5398925	SS	-80#	5	45	45	-	5	0.5		D	A	N	-	-	R	SILT	-	-	-	-	-	0	Site 79
931449	332505	5398365	SS	-80#	30	55	10	-	5	1		S	A	N	-	-	F	SILT	QTVN	SILT	-	-	-	0	Site 68 Preserved to -10#
931450	332615	5396635	SS	-80#	-	49	49	-	2	0.5		D	B	N	-	-	R	-	-	-	-	-	-	0	Site 57
931451	332960	5395105	SS	-80#	30	30	40	-	-	0.5		S	B	D	-	-	B	SILT	QTVN	SILT	-	-	-	0	Site 33 Preserved to -10#
931452	332960	5395135	SS	-80#	20	20	20	-	1.5			S	C	D	FEL	-	S	QTZT	QTVN	-	-	-	-	0	Site 34 Preserved to -10#
931453	332700	5396305	SS	-80#	-	-	80	20	-	4		S	B	B	-	-	R	SILT	-	-	-	-	-	0	Site 41 Preserved to -10#
931454	332700	5397425	SS	-80#	30	30	10	30	-	1		S	B	N	-	-	T	-	QTVN	-	-	-	-	0	Site 72 Preserved to -10#
931455	332470	5398690	SS	-80#	-	-	50	50	-	10		S	B	B	-	-	R	SILT	-	-	-	-	-	0	Site 77
931456	333110	5398205	SS	-80#	50	20	20	10	-	1		F	B	N	-	-	B	SILT	QTVN	QTZT	-	-	-	0	Site 110 Preserved to -10#
931457	332415	5399905	SS	-80#	-	-	50	50	-	5		S	B	B	-	-	R	-	-	-	-	-	-	0	Site 80
931458	332405	5399595	SS	-80#	-	-	80	20	-	5		S	B	B	-	-	T	-	-	-	-	-	-	0	Site 84 Preserved to -10#
931459	332700	5399370	SS	-80#	60	20	10	10	-	1		F	B	N	-	-	S	SILT	QTVN	QTZT	-	-	-	0	Site 92 Preserved to -10#
931460	332625	5397510	SS	-80#	-	-	50	-	60	0.5		S	B	N	-	-	R	-	-	-	-	-	-	0	Site 46
931461	332790	5396660	SS	-80#	40	20	20	20	-	0.5		S	B	N	-	-	B	-	QTVN	-	-	-	-	0	Site 44 Preserved to -10#
931462	332780	5395810	SS	-80#	-	-	85	15	0.5			S	B	N	-	-	R	-	-	-	-	-	-	0	Site 11
931715	332480	5394535	SS	-80#	40	30	30	-	-	1		S	A	N	-	-	VB	SILT	-	-	-	-	-	0	Site 20 Preserved to -10#
931716	332400	5394480	SS	-80#	-	30	60	10	-	1		M	C	H	-	-	BB	-	QTVN	SILT	-	-	-	0	Site 24 Preserved to -10#
931717	332480	5394525	SS	-80#	-	-	80	20	-	0.5		S	B	N	-	-	R	-	-	-	-	-	-	0	Site 21
931718	332015	5394350	SS	-80#	20	-	70	10	-	1		S	B	N	-	-	BB	-	QTVN	SILT	-	-	-	0	Site 25 Preserved to -10#
931719	332780	5395810	SS	-80#	-	-	20	80	0.5			S	B	N	-	-	R	SILT	-	-	-	-	-	0	Site 11
931720	332775	5395835	SS	-80#	-	-	15	85	0.5			S	A	N	-	-	VB	-	-	-	-	-	-	0	Site 12 Preserved to -10#

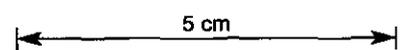
5 cm

PROJECT INTERVIEW PINNACLES 1:250 000 SHEET BUENIE SK SS-3 COLLECTED BY PMC + IMC 2/93
 TENEMENT E2 36/80 SAMPLE NO'S DATE Dec 84
 INVESTIGATION PINNACLES FOLLOW UP DPO: 31962



049

SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION							SITE DESCRIPTION							GEOLOGY				GEOLOGICAL OBSERVATIONS				
	East	North	Zone	Sample Type	Gravel %	Sand %	Silt %	Clay %	Org %	Width	Gradient	Flow	Bank	Channel	Staining	Contam.	Site	Outcrop	Float		Min/Ait	Silt	Loam	Veget.	
																			Major	Minor					
* 931721	329500	5412450	SS	-80#	60	40	10	-	-	1		F	C	W	-	-	BD	-	QTZT	SILT				0	Site 252 Preserved to -10# Mt. Holloway follow up.
931722	329775	5395835	SS	-80#	-	-	15	85	-	0.5		S	B	N			VB	-	-	-				0	Site 12
* 931723	329900	5412580	SS	-80#	50	40	10	-	-	15		M	C	W			BS	-	QTZT	SILT				0	Site 253 Preserved to -10# Mt. Holloway follow up.
* 931725	329600	5412640	SS	-80#	20	40	40	-	-	5		S	C	D			38	SILT	SILT	QTZT				0	Site 254 Preserved to -10# Mt. Holloway follow up.
931731	332900	5394555	SS	-80#	60	30	10	-	-	0.5		S	B	N			T	-	SILT	QTZN				0	Site 28 Preserved to -10#
931732	334590	5396630	SS	-80#	-	50	60	-	-	5		S	A	B			F	-	-	-				0	Site 38 Preserved to -10#
931733	324160	5395770	SS	-80#	60	30	10	-	-	1		S	B	N			F	SILT	QTZN	SILT				0	Site 31 Preserved to -10#
931734	333845	5395325	SS	-80#	50	35	15	-	-	0.5		S	C	W			T	-	-	-				0	Site 26
931735	334265	5395480	SS	-80#	-	-	50	-	-	1		D	A	B			F	-	-	-				0	
* 931438	329950	5412100	SS	-80#	50	30	20	-	-	2		M	C	W			T	8-	QTZT	SILT				0	Site 250 Preserved to -10# Mt. Holloway follow up.
* 931439	329810	5412150	SS	-80#	60	35	5	-	-	3		F	C	W			F	SILT	QTZT	SILT				0	Site 251 Preserved to -10# Mt. Holloway follow up.



CRA EXPLORATION PTY LIMITED

ROCK SAMPLE FIELD SHEET

189051

RK

050

SAMPLE NUMBER	SAMPLE LOCATION		SAMPLE DESCRIPTION				ROCK TYPE			MINERALISATION							GEOLOGICAL OBSERVATIONS						
	East	North	Zone/LG	Sample Type	From	To	Width	Exposure	Major	Minor	Alteration	Visible	Style	Major	Minor	Minor		Conspic	Age	Grain Size	Texture	Colour	Look
931729			SS	GRAB				0	SILT									Pe	Pen	Fg	bd	black + white	Site 78 ss. 931433. black + white laminated sandstone. Origin unclear - Pinnacles Rock.
931741			SS	GRAB				0	SILT									Pe	Pen	Fg	bd	grey green	Site 6 ss. 931413 grey green siltstone + g.
931742			SS	GRAB				0	SILT									Pe	Pen	Fg	bd	grey	Site 32 931417 grey, fine? micaceous siltstone - banded.
931743			SS	GRAB				0	SILT									Pe	Pen	Fg	bd	grey	Site 61 ss. 931420 Sheared? grey - bl laminated siltstone. Shaley in beds.
931744			SS	GRAB				0	SILT	FERG								Pe	Pen	Fg	bd	grey	Site 65 ss. 931421 grey + g. shaley siltstone + carbonaceous partings.
931745			SS	GRAB				F	SILT		CHLOR?							Pe	Pen	Fg	bd	grey	Site 16 ss. 931425 pale green + g. micaceous siltstone.
931749			SS	GRAB				0	SILT		CHLOR?							Pe	Pen	Fg	cc	grey	Site 29 ss. 931426 Sheared + g. green micaceous siltstone -> Phyllite.
931492			SS	GRAB				0	SILT									Pe	Pen	Fg	bd	grey	Site 35 ss. 931427 1. grey banded siltstone + dk grey shaley bands.
931493			SS	GRAB				0	SILT		CHLOR?							Pe	Pen	Fg	bd	grey	Site 36 ss. 931428 pale green laminated siltst.
931746			SS	GRAB				0	SILT		CHLOR							Pe	Pen	Fg	bd	grey	Site 28 ss. 931731 green chloritic micaceous siltstone - sheared? minor folds - K-KS? laminated.
931747			SS	GRAB				0	SILT		CHLOR							Pe	Pen	Fg	bd	grey	Site 38 ss. 931739 dk green chlor micaceous? siltstone. - poss. sheared.
931748			SS	GRAB				0	SILT		CHLOR							Pe	Pen	Fg	bd	grey	Site 58 ss. 931732 dk green chloritic laminated siltstone.
931749			SS	GRAB				0	SILT		CHLOR?							Pe	Pen	Fg	bd	grey	Site 68 ss. 931449 green - grey laminated siltstone
931750			SS	GRAB				0	SILT		CHLOR							Pe	Pen	Fg	bd	grey	Site 79 ss. 931448 green chloritic, silty siltstone.

5 CM

PROTECT INTERVIEWS PINNACLES 1:250000 SHEET Burnie SK 55-3 COLLECTED BY _____ DATE Dec 84 20/3
 TENEMENT EL 36/80 SAMPLE NO.S _____ LOCAL GRID CROSS REF _____
 INVESTIGATION PINNACLES ANOMALY DPO'S 31963



SAMPLE NUMBER	SAMPLE LOCATION		SAMPLE DESCRIPTION					ROCK TYPE			MINERALISATION						GEOLOGICAL OBSERVATIONS						
	East	North	Zone/LG	Sample Type	From	To	Width	Exposure	Major	Minor	Alteration	Visible	Stylite	Major	Minor	Minor		Evaporite	Age	Pen	Grain Size	Texture	Colour
931463			SS	GRAB				0	SILT		CHLOR???							Pe	Pen	Fg	BD	grey	Site 11 SS 931719 grey green f.g. Siltstone
931464			SS	GRAB				0	SILT									Pe	Pen	Fg	BD	green	Site 20 SS 931715 pale green siltstone trending to quartzitic - placid
931465			SS	GRAB				0	SILT		CHLOR							Pe	Pen	Fg	BD	green	Site 25 SS 931718 pale green micaceous siltstone + chlorite - sheared
931466			SS	GRAB				0	SILT									Pe	Pen	Fg	BD	grey black	Site 33 SS 931451 grey-bl. laminated siltstone st. chloralake
931467			SS	GRAB				0	QTZT									Pe	Pen	Mg	BD	white	Site 34 931452 white m.g. quartz. weathered. Poss. roots of her py.
931468			SS	GRAB				0	SILT		CHLOR							Pe	Pen	Fg	BD	green	Site 41 SS 931453 green f.g. chloritic laminated siltstone with streaks of finer chale/siltstone
931469			SS	GRAB				0	QTZV									Pe	Pen	MA	MA	white	Site 72 SS 931454 white massive quartz vein.
931470			SS	GRAB				0	SILT		CHLOR							Pe	Pen	Fg	BD	green	Site 77 SS 931455 green f.g. chloritic siltstone. Poss. micaceous.
988840			SS	GRAB				0	SILT									Pe	Pen	Fg	BD	black white	Site 110 SS 931456 black & white laminated siltstone -> pyrope rock. v. sandy. cherted
988841			SS	GRAB				0	SILT		CHLOR							Pe	Pen	Fg	CC	grey green	Site 84 SS 931458 dk grey to green sheared micaceous siltstone. f.g.
988842			SS	GRAB				0	SILT		CHLOR?							Pe	Pen	Fg	BD	green	Site 92 SS 931459 pale green lam siltstone sl sheared st. micaceous.
931726			SS	GRAB				0	SILT		CHLOR							Pe	Pen	Fg	BD	grey	Site 69 SS 931429 lt. green laminated siltstone sheared, poss. tuffaceous.
931727			SS	GRAB				0	SILT		CHLOR?							Pe	Pen	Fg	CC	green	Site 83 SS 931431 lt. green - buff sheared micaceous siltstone.
931728			SS	GRAB				F	SILT									Pe	Pen	Fg	BD	white black	Site 90 SS 931432 black & white laminated sandy siltstone -> pyrope rock. + 2% Pyrite - poss.

5 CM



053

189054

Australian Laboratory Services

PTY.
LTD.

Office & Laboratory

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Stafford, Q. 4053PO Box 66
Everton Park, Q. 4053Phone (07) 352 5577
Telex ALSEV 42344Incorporated
in Queensland

CONSULTING ANALYTICAL CHEMISTS

LABORATORY REPORT

Page 1 of 4

Client: CRA EXPLORATION PTY. LIMITED
Address: LEVEL 4, BELLERIVE QUAY
CAMBRIDGE ROAD,
BELLERIVE TASMANIA 7018

Batch Number: M104

Contact: MR. J. WEIR

No. of Samples: 31
Date Received: 13/12/84

Order No: D.P.O. 31963

Sample Type: ROCK CHIP

Date Completed: 15/01/85

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
931463		5	25	55	10	10
931464		<2	15	45	20	5
931465		<2	10	40	20	5
931466		2	15	65	40	10
931467		5	10	25	15	<5
931468		5	15	85	20	10
931469		2	10	15	<5	<5
931470		2	10	115	40	15
988840		2	20	10	<5	<5
988841		15	25	85	10	10
988842		2	10	40	15	<5
931726		5	15	55	15	10
931727		2	10	15	<5	<5
931728		25	20	55	35	10
931729		5	75	45	20	<5
931741		5	20	85	20	20
931742		2	25	45	10	<5
931743		20	35	20	20	10
931744		5	15	65	25	<5
931745		5	15	55	20	15
931746		<2	10	65	20	10
931747		20	10	110	25	20
931748		<2	10	65	25	15
931749		<2	10	70	20	10
931750		<2	5	55	25	15
931491		<2	10	30	10	5
931492		5	10	105	55	15
931493		<2	10	65	40	10
931481		20	25	60	20	5
931482		10	15	45	15	5
Detection Limit		2	5	2	5	5

Comments:



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Registered
Laboratory

A Member of the Commonwealth of Australia

05A

189055

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CONSULTING ANALYTICAL CHEMISTS

LABORATORY REPORT

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Page 2 of 4

CRA EXPLORATION PTY. LIMITED
LEVEL 4, BELLERIVE QUAY
CAMBRIDGE ROAD,
BELLERIVE TASMANIA 7018

Batch Number: M104

MR. J. WEIR

No. of Samples: 31
Date Received: 13/12/84
Date Completed: 15/01/85

D.P.O. 31963

Sample Type: ROCK CHIP

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580	Mo ppm IC580
931463		2.19	100	50	1	5
931464		2.00	85	5	<1	<5
931465		1.64	50	5	1	5
931466		3.89	145	16	1	5
931467		0.80	40	12	<1	20
931468		4.15	185	32	1	10
931469		0.54	35	34	<1	15
931470		2.42	300	22	1	5
988840		0.44	25	12	<1	15
988841		4.45	300	30	1	10
988842		2.24	60	18	1	10
931726		1.76	155	28	1	<5
931727		0.75	15	16	1	10
931728		2.83	100	46	1	5
931729		1.28	70	26	<1	5
931741		2.79	320	42	1	5
931742		2.64	70	24	1	10
931743		1.39	25	105	1	5
931744		2.50	220	16	1	5
931745		2.68	170	32	1	5
931746		3.90	200	7	1	5
931747		5.64	210	6	1	10
931748		2.60	290	8	1	5
931749		2.31	125	3	<1	5
931750		2.51	200	3	<1	5
931491		2.00	70	6	1	5
931492		5.60	270	8	1	10
931493		3.67	140	8	<1	5
931481		3.79	195	20	<1	5
931482		3.01	210	9	1	10
Detection Limit:		10	5	1	1	5

Comments:



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Signatory: *[Signature]*

056

189057

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Page 4 of 4

Client: **CRA EXPLORATION PTY. LIMITED**
Address: **LEVEL 4, BELLERIVE QUAY
CAMBRIDGE ROAD,
BELLERIVE TASMANIA 7018**

Batch Number: **M104**

Contact: **MR. J. WEIR**

No. of Samples: **31**
Date Received: **13/12/84**
Date Completed: **15/01/85**

Order No. **D.P.O. 31963** Sample Type: **ROCK CHIP**

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580	Mo ppm IC580
931724		2.65	105	7	<1	10
Detection Limit:		10	5	1	1	5

Comments:



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Registered Laboratory

A Member of the C. S. I. R. Group of Companies

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LABORATORY REPORT

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Incorporated
 in Queensland

Page 1 of 2

Client: **CRA EXPLORATION PTY. LIMITED**
 Address: **LEVEL 4, BELLERIVE QUAY**
CAMBRIDGE ROAD
BELLERIVE TASMANIA 7018

Batch Number: **M104-1**

Contact: **MR. J. WEIR**

No. of Samples: **31**
 Date Received: **13/12/84**
 Date Completed: **15/01/85**

Order No: **D.P.O. 31963**

Sample Type: **ROCK CHIP**

SAMPLE NUMBER	Element Unit Method	Sn ppm XRF 1A	W ppm XRF 1A	Ba ppm XRF 1A	Au ppb PM204
931463		5	<10	660	<3
931464		<5	10	270	5
931465		<5	<10	430	<3
931466		<5	10	550	<3
931467		<5	<10	10	<3
931468		5	10	660	<3
931469		<5	10	<10	<3
931470		5	<10	620	10
988840		<5	<10	190	<3
988841		<5	10	390	5
988842		<5	10	600	<3
931726		<5	<10	630	<3
931727		<5	<10	570	3
931728		<5	10	280	<3
931729		<5	10	510	<3
931741		<5	<10	650	<3
931742		5	<10	540	5
931743		<5	10	440	5
931744		<5	<10	550	<3
931745		<5	<10	680	<3
931746		5	<10	750	3
931747		<5	<10	390	3
931748		<5	<10	650	5
931749		<5	<10	650	3
931750		<5	10	570	<3
931491		5	10	580	<3
931492		<5	<10	630	3
931493		<5	<10	830	<3
931481		<5	10	680	<3
931482		<5	<10	500	3
Detection Limit		5	10	10	3

Comments:



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Telex: ALSEV 42344

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Page 2 of 2

Client **CRA EXPLORATION PTY. LIMITED**
Address **LEVEL 4, BELLERIVE QUAY**
CAMBRIDGE ROAD
BELLERIVE TASMANIA 7018

Batch Number: **M104-1**

Contact **MR. J. WEIR**

No. of Samples: **31**
Date Received: **13/12/84**
Date Completed: **15/01/85**

Order No **D.P.O. 31963**

Sample Type: **ROCK CHIP**

SAMPLE NUMBER	Element Unit Method	Sn ppm XRF 1A	W ppm XRF 1A	Ba ppm XRF 1A	Au ppb PM204
931724		<5	<10	230	<3
Detection Limit		5	10	10	3

Comments:



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Client: CRA EXPLORATION PTY. LIMITED
Address: LEVEL 4, BELLERIVE QUAY
CAMBRIDGE ROAD
BELLERIVE TASMANIA 7018

Batch Number: M072

Contact: MR. J. WEIR

No. of Samples: 63
Date Received: 11/12/84
Date Completed: 16/01/85

Order No. 31962

Sample Type: STREAM SED.

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
931413		10	25	45	<5	10
931414		15	10	40	15	10
931415		5	20	20	5	5
931416		5	20	5	<5	<5
931417		10	15	15	<5	<5
931418		5	10	5	<5	<5
931419		2	10	5	<5	<5
931420		5	10	5	<5	<5
931421		5	15	15	<5	5
931422		2	5	2	<5	<5
931423		5	15	10	<5	<5
931425		5	5	40	<5	10
931426		2	5	5	<5	<5
931427		2	15	15	<5	<5
931428		2	15	5	<5	<5
931429		5	5	10	<5	<5
931430		5	5	35	<5	10
931431		2	5	2	<5	<5
931432		2	<5	5	<5	<5
931433		5	5	15	<5	<5
931434		5	15	10	<5	<5
931435		5	15	10	<5	<5
931436		5	15	20	<5	5
931438		5	<5	2	<5	<5
931439		5	10	5	<5	<5
931441		5	20	10	<5	<5
931442		5	15	20	<5	5
931443		5	10	10	<5	<5
931444		5	10	5	<5	<5
931445		2	<5	2	<5	<5
Detection Limit		2	5	2	5	5

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CRA EXPLORATION PTY. LIMITED
LEVEL 4, BELLERIVE QUAY
CAMBRIDGE ROAD
BELLERIVE TASMANIA 7018

Batch Number: M072

MR. J. WEIR

No. of Samples: 63
Date Received: 11/12/84
Date Completed: 16/01/85

31962

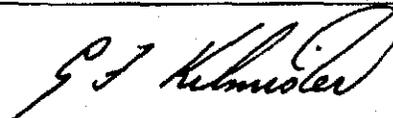
Sample Type: STREAM SED.

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580	Mo ppm IC580
931413		2.25	150	7	1	20
931414		3.21	160	5	1	50
931415		2.16	60	6	1	15
931416		0.88	100	4	1	<5
931417		1.35	100	3	<1	5
931418		0.68	25	4	<1	<5
931419		0.31	15	4	<1	<5
931420		1.07	30	5	<1	5
931421		1.71	115	4	<1	<5
931422		1.02	20	2	<1	10
931423		2.54	55	3	<1	10
931425		2.68	170	3	1	25
931426		0.43	35	3	<1	<5
931427		0.99	45	4	<1	<5
931428		0.49	30	3	<1	<5
931429		1.42	70	4	<1	15
931430		2.12	170	1	<1	<5
931431		0.60	35	2	<1	15
931432		0.45	55	1	<1	<5
931433		0.66	40	3	<1	25
931434		1.05	105	5	<1	10
931435		1.60	140	5	<1	15
931436		1.38	250	7	<1	5
931438		0.56	40	2	<1	30
931439		1.27	70	<1	<1	25
931441		1.12	135	6	<1	10
931442		1.48	185	4	<1	10
931443		1.65	90	<1	<1	25
931444		0.45	25	2	<1	20
931445		0.31	15	<1	<1	20
Detection Limit		10	5	1	1	5

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Client: **CRA EXPLORATION PTY. LIMITED**
Address: **LEVEL 4, BELLERIVE QUAY**
CAMBRIDGE ROAD
BELLERIVE TASMANIA 7018

Batch Number: **M072**

Contact: **MR. J. WEIR**

No. of Samples: **63**
Date Received: **11/12/84**
Date Completed: **16/01/85**

Order No. **31962**

Sample Type: **STREAM SED.**

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
931446		5	15	20	<5	5
931447		5	<5	5	<5	<5
931448		5	<5	2	<5	<5
931449		2	<5	10	<5	<5
931450		2	5	2	<5	<5
931451		5	20	5	<5	5
931452		2	25	50	<5	<5
931453		5	10	5	<5	<5
931454		5	5	15	<5	<5
931455		2	5	5	<5	<5
931456		2	15	5	<5	<5
931457		2	10	5	<5	<5
931458		5	10	5	<5	<5
931459		5	5	2	<5	<5
931460		15	20	30	15	10
931461		5	25	30	<5	10
931462		5	5	5	<5	<5
931715		2	20	5	<5	<5
931716		2	20	5	<5	<5
931717		5	10	2	<5	<5
931718		<2	10	2	<5	<5
931719		5	<5	10	<5	<5
931720		2	10	20	<5	<5
931721		2	<5	5	<5	<5
931722		5	5	25	<5	5
931723		5	<5	5	<5	<5
931725		5	<5	5	<5	<5
931731		2	5	5	<5	<5
931732		N.R.	N.R.	N.R.	N.R.	N.R.
931733		2	5	25	<5	5
Detection Limit:		2	5	2	5	5

Comments:



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CRA EXPLORATION PTY. LIMITED
LEVEL 4, BELLERIVE QUAY
CAMBRIDGE ROAD
BELLERIVE TASMANIA 7018

Batch Number: M072

Contact: MR. J. WEIR

No. of Samples: 63

Date Received: 11/12/84

Order No: 31962

Sample Type: STREAM SED.

Date Completed: 16/01/85

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580	Mo ppm IC580
931446		1.56	110	5	<1	10
931447		0.49	30	2	<1	20
931448		0.62	30	3	<1	25
931449		0.74	45	2	<1	15
931450		1.06	30	3	<1	15
931451		1.43	100	6	<1	<5
931452		0.53	30	3	<1	<5
931453		0.88	30	3	<1	10
931454		1.32	85	3	<1	20
931455		0.84	45	4	<1	15
931456		0.62	45	2	<1	10
931457		0.76	30	<1	<1	10
931458		1.01	35	2	<1	10
931459		0.78	50	3	<1	20
931460		5.89	90	10	1	85
931461		2.93	185	12	1	20
931462		0.96	30	4	<1	25
931715		0.83	85	5	<1	<5
931716		0.63	115	4	<1	<5
931717		0.87	35	2	<1	10
931718		0.22	15	<1	<1	<5
931719		1.11	50	4	<1	45
931720		1.15	40	3	<1	10
931721		0.45	70	2	<1	15
931722		2.00	65	3	<1	15
931723		0.66	65	2	<1	25
931725		0.75	45	3	<1	10
931731		0.32	10	3	<1	<5
931732		N.R.	N.R.	N.R.	N.R.	N.R.
931733		1.81	60	3	<1	<5
Detection Limit		10	5	1	1	5

Comments:



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Client: **CRA EXPLORATION PTY. LIMITED**
Address: **LEVEL 4, BELLERIVE QUAY**
CAMBRIDGE ROAD
BELLERIVE TASMANIA 7018

Batch Number: **M072**

Contact: **MR. J. WEIR**

No. of Samples: **63**
Date Received: **11/12/84**
Date Completed: **16/01/85**

Order No: **31962**

Sample Type: **STREAM SED.**

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
931734		5	30	10	<5	<5
931735		5	10	5	<5	<5
FLOAT		15	10	20	<5	5
Detection Limit		2	5	2	5	5

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CRA EXPLORATION PTY. LIMITED
LEVEL 4, BELLERIVE QUAY
CAMBRIDGE ROAD
BELLERIVE TASMANIA 7018

Batch Number: M072

MR. J. WEIR

No. of Samples: 63
Date Received: 11/12/84
Date Completed: 16/01/85

31962

Sample Type: STREAM SED.

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580	Mo ppm IC580
931734		1.21	125	5	<1	5
931735		0.58	35	3	<1	10
FLOAT		1.64	70	9	<1	5
Detection Limit		10	5	1	1	5

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Client: **CRA EXPLORATION PTY. LIMITED**
Address: **LEVEL 4, BELLERIVE QUAY**
CAMBRIDGE ROAD
BELLERIVE TASMANIA 7018

Batch Number: **M072-1**

Contact: **MR. J. WEIR**

No. of Samples: **63**

Date Received: **11/12/84**

Order No. **31962**

Sample Type: **STREAM SED.**

Date Completed: **16/01/85**

SAMPLE NUMBER	Element Unit Method	Sn ppm XRF 1A	W ppm XRF 1A	Ba ppm XRF 1A	Au ppb PM204
931413		<5	<10	280	20
931414		<5	40	280	30
931415		5	10	270	3
931416		<5	20	140	<3
931417		5	60	150	<3
931418		15	40	110	3
931419		20	70	110	10
931420		15	30	150	100
931421		15	60	220	3
931422		<5	<10	150	5
931423		<5	60	130	5
931425		<5	<10	360	10
931426		5	40	50	5
931427		10	40	150	<3
931428		5	60	100	5
931429		5	10	90	3
931430		5	20	200	5
931431		<5	<10	10	5
931432		<5	<10	10	5
931433		<5	<10	<10	15
931434		<5	30	80	5
931435		<5	10	90	5
931436		5	50	90	20
931438		<5	<10	30	5
931439		<5	<10	180	5
931441		5	20	160	15
931442		<5	10	180	5
931443		<5	<10	240	5
931444		<5	10	30	5
931445		<5	<10	<10	10
Detection Limit		5	10	10	3

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LEVEL 4, BELLERIVE QUAY
CAMBRIDGE ROAD
BELLERIVE TASMANIA 7018

Batch Number: M072-1

MR. J. WEIR

No. of Samples: **63**
Date Received: **11/12/84**
Date Completed: **16/01/85**

31962

Sample Type: **STREAM SED.**

SAMPLE NUMBER	Element Unit Method	Sn ppm XRF 1A	W ppm XRF 1A	Ba ppm XRF 1A	Au ppb PM204
931446		<5	10	160	5
931447		<5	10	40	<3
931448		<5	<10	10	<3
931449		<5	<10	50	3
931450		<5	<10	140	10
931451		5	40	150	<3
931452		10	50	90	3
931453		<5	10	80	<3
931454		<5	<10	100	<3
931455		<5	<10	150	<3
931456		<5	<10	40	<3
931457		<5	<10	90	<3
931458		<5	10	80	3
931459		<5	<10	10	<3
931460		<5	<10	190	5
931461		<5	<10	140	3
931462		<5	<10	110	<3
931715		<5	40	130	5
931716		<5	10	40	<3
931717		5	20	200	<3
931718		<5	20	20	230
931719		<5	<10	80	15
931720		<5	40	130	<3
931721		<5	<10	<10	<3
931722		<5	70	200	<3
931723		<5	<10	10	<3
931725		<5	30	50	3
931731		10	30	50	25
931732		N.R.	N.R.	N.R.	N.R.
931733		5	30	200	<3
Detection Limit		5	10	10	3

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Client **CRA EXPLORATION PTY, LIMITED**
Address **LEVEL 4, BELLERIVE QUAY
CAMBRIDGE ROAD
BELLERIVE TASMANIA 7018**

Batch Number: M072-1

Contact **MR. J. WEIR**

No. of Samples: **63**
Date Received: **11/12/84**
Date Completed: **16/01/85**

Order No **31962** Sample Type: **STREAM SED.**

SAMPLE NUMBER	Element Unit Method	Sn ppm XRF 1A	W ppm XRF 1A	Ba ppm XRF 1A	Au ppb PM204
931734		<5	10	70	<3
931735		<5	40	80	5
FLOAT		<5	20	310	5
Detection Limit:		5	10	10	3

Comments:



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APPENDIX V

PINNACLES ANOMALY, RE-ASSAYS

Zn values in p.p.m.

<u>Sample No.</u>	-20 +40#	-40 +60#	-60 +80#	-80 +200#	-200#
1142803	65	180	360	720	500
1142818	360	360	470	550	510
1142828	70	125	240	670	2100
1153061	90	220	195	300	470
1153202	165	490	680	900	830
1153233	70	140	210	510	1000

070

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Client: **CRA EXPLORATION PTY. LIMITED**
Address: **P.O. BOX 138
ROSNY PARK. TAS. 7018**

Page 1 of 1

Batch Number: **A064**

Contact: **MR. J. WEIR**

No. of Samples: **16**

Date Received: **10/01/85**

Order No: **VERBAL**

Sample Type: **PULPS EX C045**

Date Completed: **18/01/85**

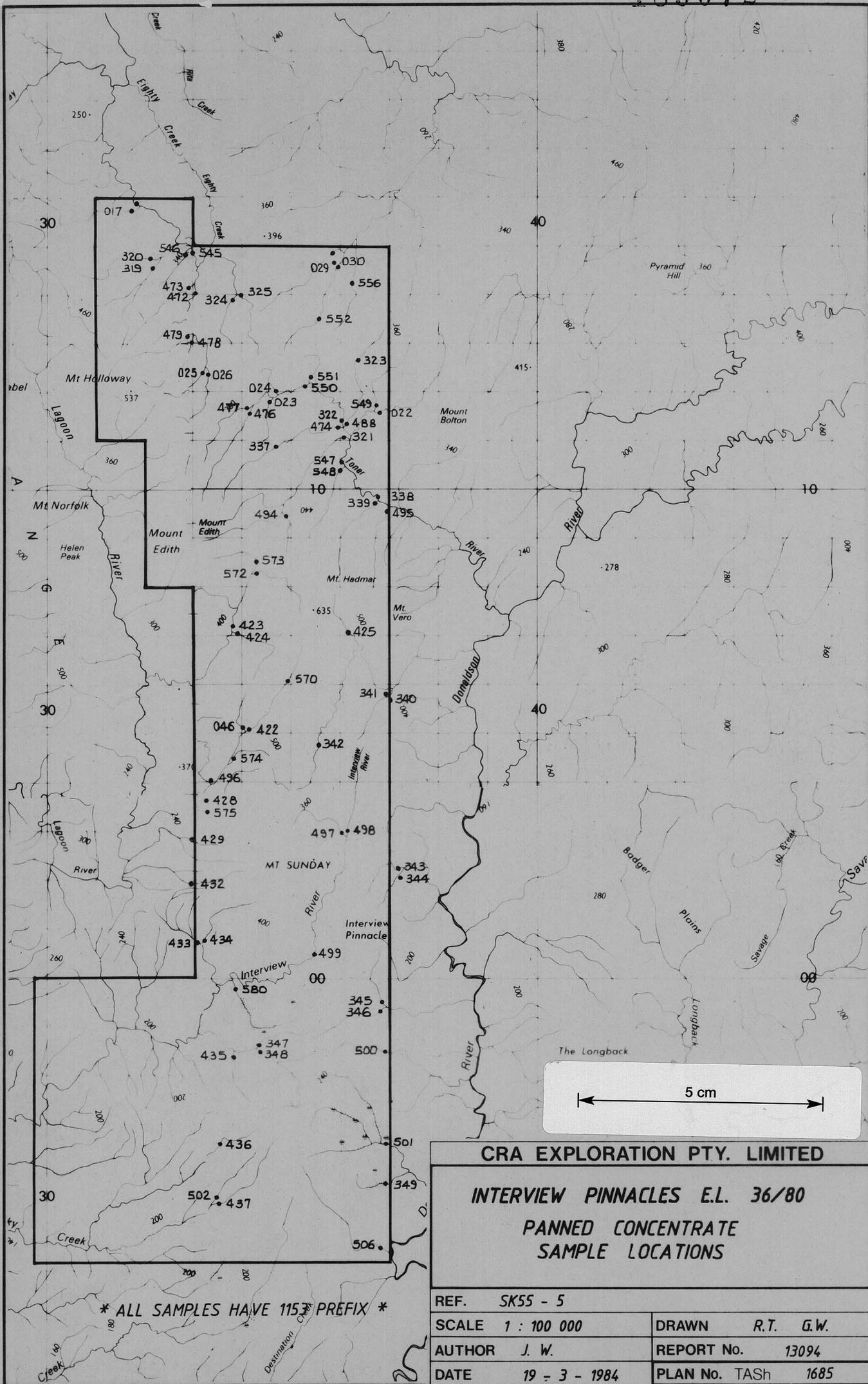
SAMPLE NUMBER	Element Unit Method	Zn ppm G001			
1153199		125			
1153200		390			
1153201		105			
1153202		1200			
1153060		30			
1153061		800			
1153062		85			
1153120		5			
1153121		35			
1153122		530			
1153123		115			
1153124		50			
1153206		180			
1153280		15			
1142827		15			
1142828		1600			
Detection Limit.					

Comments:



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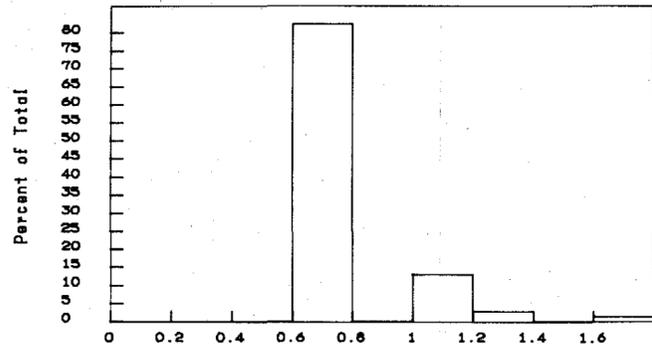


* ALL SAMPLES HAVE 1153 PREFIX *

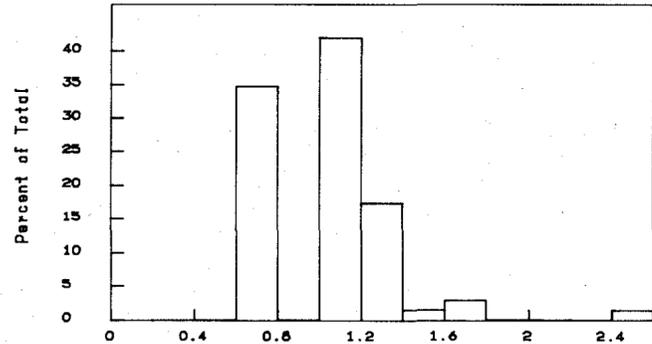
CRA EXPLORATION PTY. LIMITED
INTERVIEW PINNACLES E.L. 36/80
PANNED CONCENTRATE
SAMPLE LOCATIONS

REF. SK55 - 5	
SCALE 1 : 100 000	DRAWN R.T. G.W.
AUTHOR J. W.	REPORT No. 13094
DATE 19 - 3 - 1984	PLAN No. TASH 1685

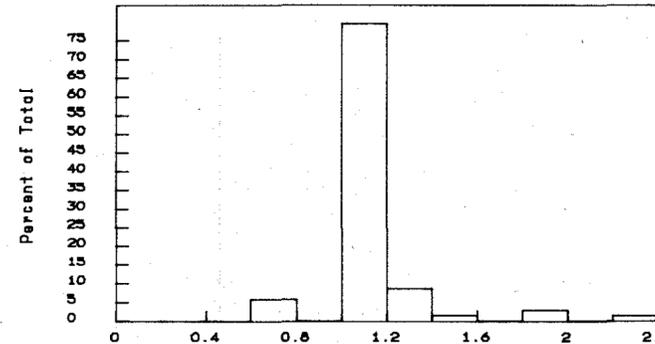
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 Minimum: 0.000 Mean: 0.77
 Maximum: 10.000 Std. Deviation: 0.19



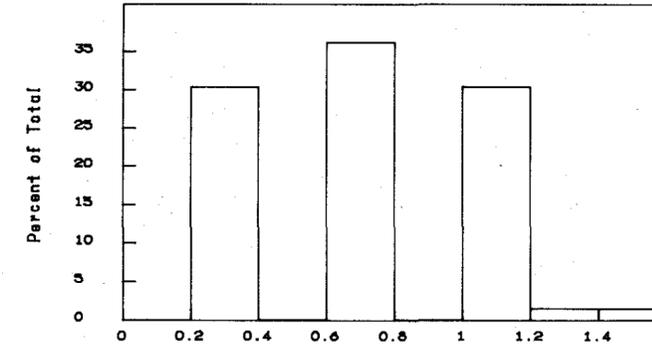
Variable: LPB Total observations: 69
 Minimum: 0.000 Mean: 1.02
 Maximum: 10.000 Std. Deviation: 0.32



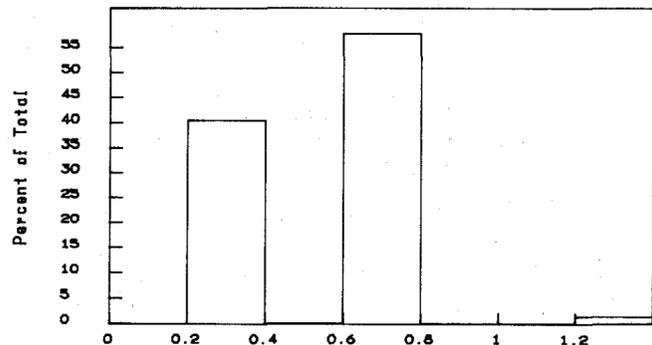
Variable: LXN Total observations: 69
 Minimum: 0.000 Mean: 1.12
 Maximum: 10.000 Std. Deviation: 0.25



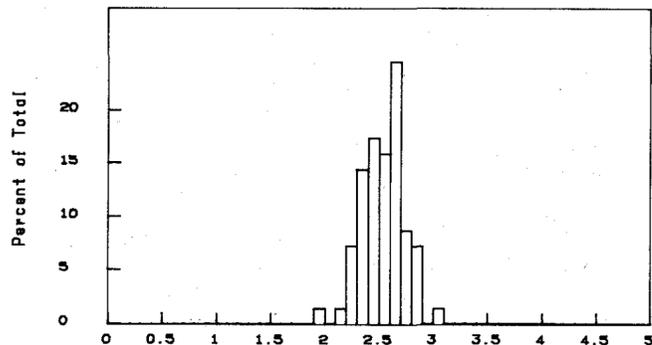
Variable: LNI Total observations: 69
 Minimum: 0.000 Mean: 0.71
 Maximum: 10.000 Std. Deviation: 0.33



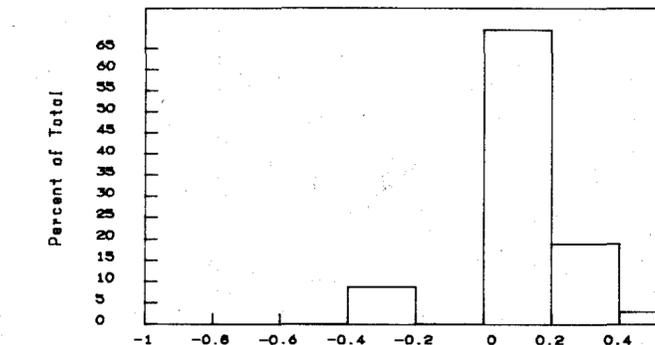
Variable: LCO Total observations: 69
 Minimum: 0.000 Mean: 0.55
 Maximum: 10.000 Std. Deviation: 0.22



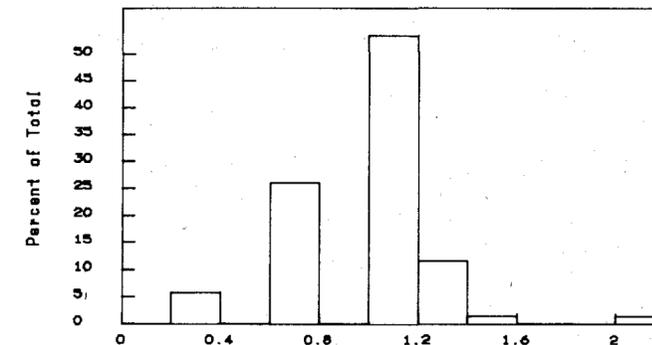
Variable: LCR Total observations: 69
 Minimum: 0.000 Mean: 2.54
 Maximum: 5.000 Std. Deviation: 0.20



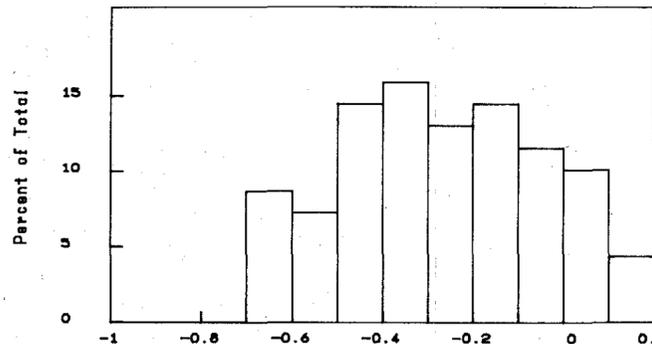
Variable: LAG Total observations: 69
 Minimum: -1.000 Mean: 0.04
 Maximum: 9.000 Std. Deviation: 0.17



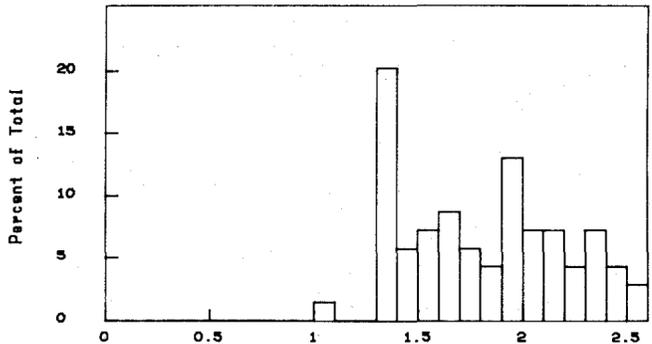
Variable: LMO Total observations: 69
 Minimum: 0.000 Mean: 0.99
 Maximum: 10.000 Std. Deviation: 0.30



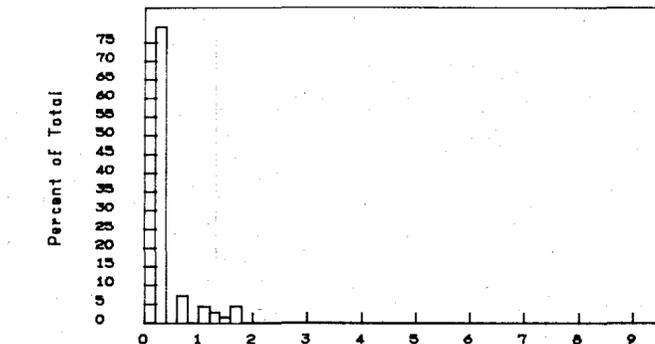
Variable: LFE Total observations: 69
 Minimum: -1.000 Mean: -0.27
 Maximum: 4.000 Std. Deviation: 0.21



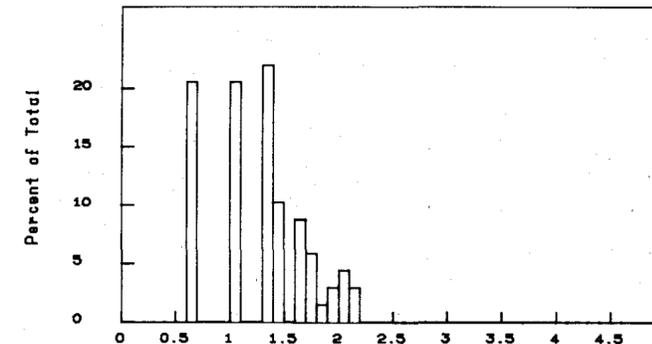
Variable: LMN Total observations: 69
 Minimum: 0.000 Mean: 1.61
 Maximum: 5.000 Std. Deviation: 0.36



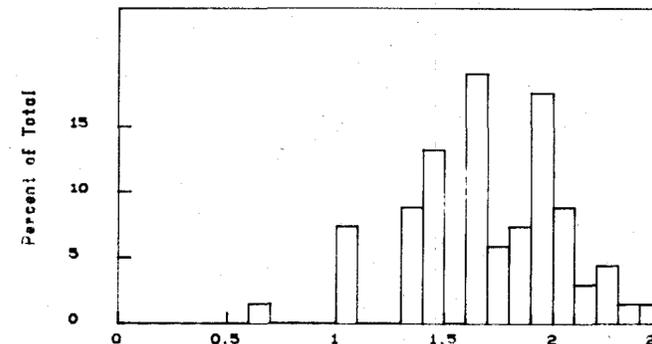
Variable: LSN Total observations: 68
 Minimum: 0.000 Mean: 0.55
 Maximum: 10.000 Std. Deviation: 0.35



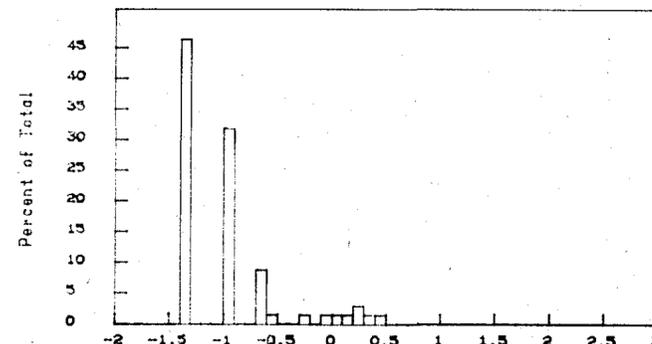
Variable: LW Total observations: 68
 Minimum: 0.000 Mean: 1.27
 Maximum: 5.000 Std. Deviation: 0.43



Variable: LBA Total observations: 68
 Minimum: 0.000 Mean: 1.71
 Maximum: 5.000 Std. Deviation: 0.36



Variable: LAU Total observations: 69
 Minimum: -2.000 Mean: -0.9
 Maximum: 3.000 Std. Deviation: 0.46



189073

5 cm

CRA EXPLORATION PTY. LIMITED	
INTERVIEW PINNACLES E.L. 36/80 PANNED CONCENTRATES LOG ELEMENT HISTOGRAMS 815	
REF. SK35 - 3	
SCALE AS SHOWN	DRAWN J.W.
AUTHOR J.W.	REPORT No. 13094
DATE 25 - 1 - 1985	PLAN No. TASH 2472

85-2377

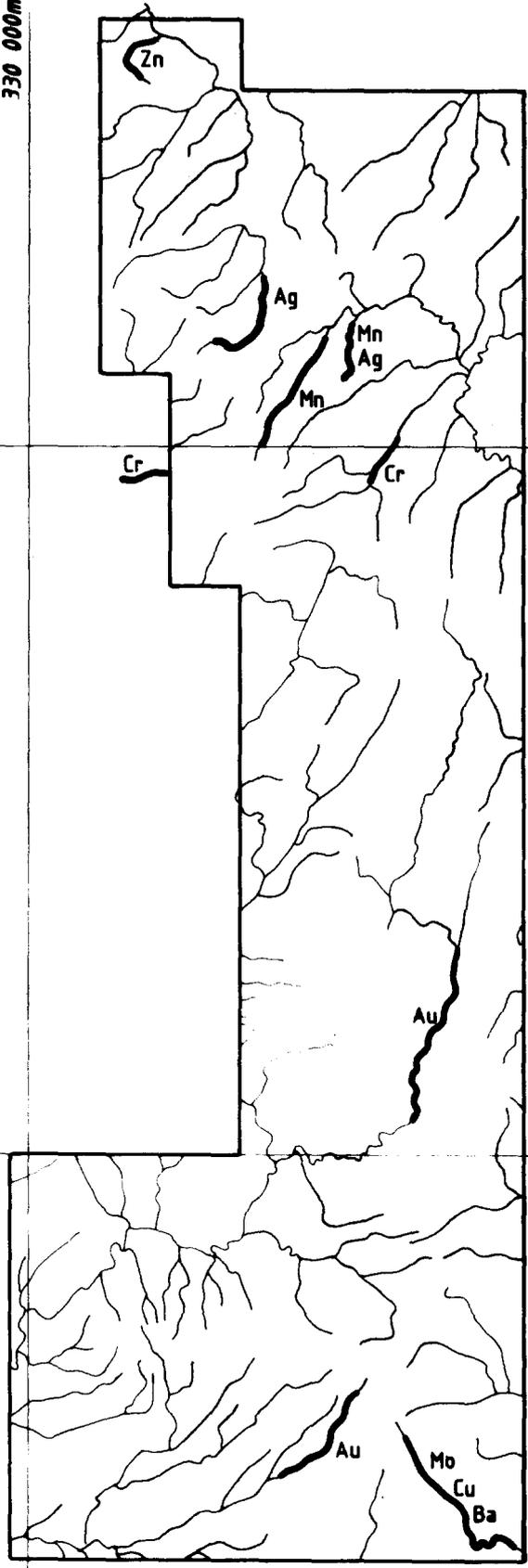
U72

330 000mE

340 000mE

5 410 000mN

5 400 000mN



189074

CRA EXPLORATION PTY. LIMITED

**INTERVIEW PINNACLES E.L.36/80
 PANNED CONCENTRATES
 WORM DIAGRAM
 (ANOMALOUS)**

5 cm

85-2377

REF.	SK55-5	DRAWN	M.D.
SCALE	1:100 000	REPORT No.	13094
AUTHOR	J.W.	PLAN No.	TASH 2488
DATE	2-2-1985		

023

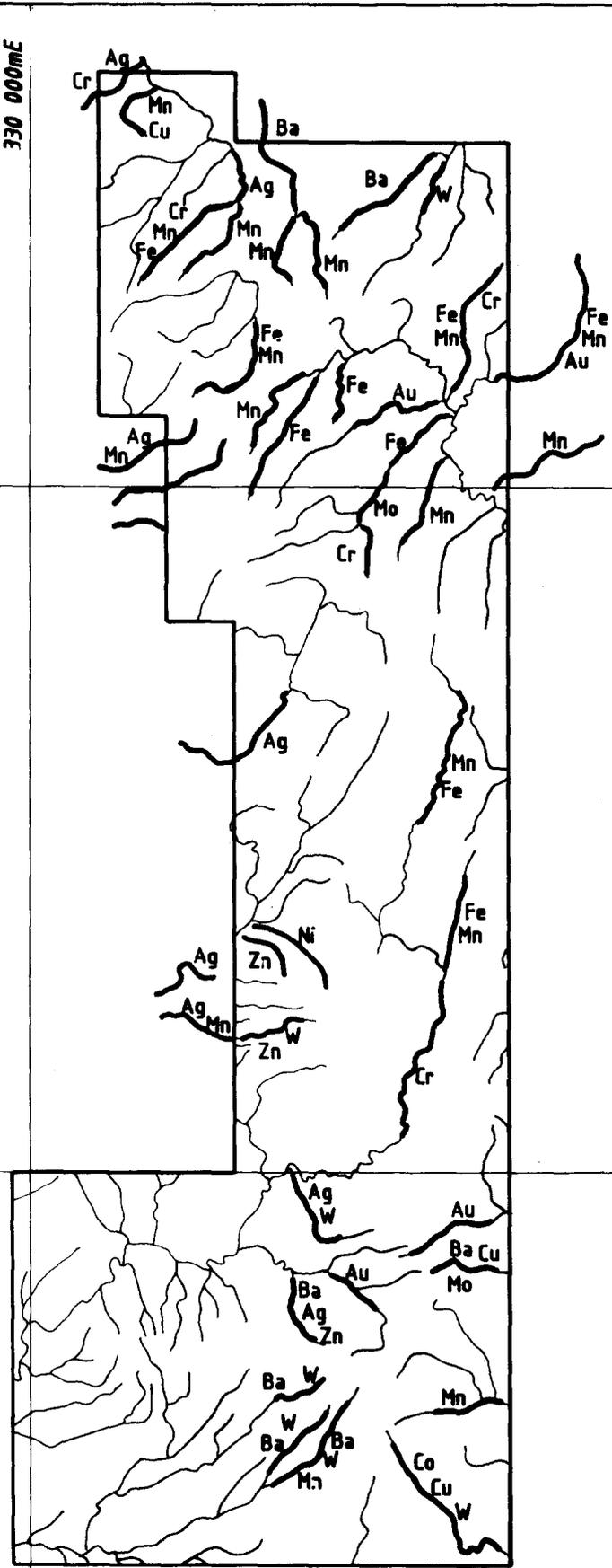
189075

330 000mE

340 000mE

5 410 000mN

5 400 000mN



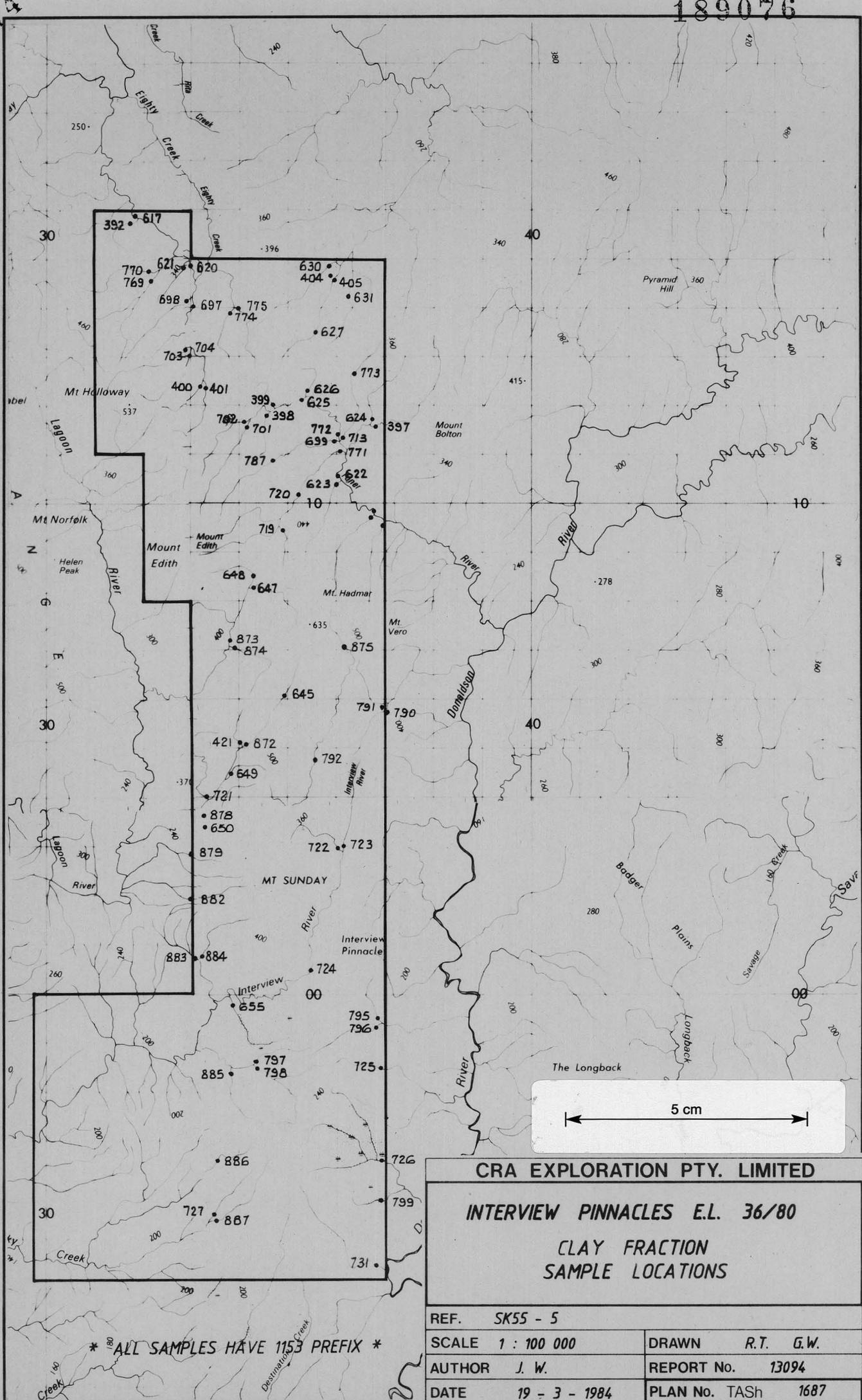
5 cm

CRA EXPLORATION PTY. LIMITED

**INTERVIEW PINNACLES E.L.36/80
 PANNED CONCENTRATES
 WORM DIAGRAM
 (POSSIBLY ANOMALOUS)**

REF.	SK55-5	DRAWN	M.D.
SCALE	1:100 000	REPORT No.	13094
AUTHOR	J.W.	PLAN No.	JASH 2482
DATE	2-2-1985		

85-2377



* ALL SAMPLES HAVE 1153 PREFIX *

CRA EXPLORATION PTY. LIMITED
INTERVIEW PINNACLES E.L. 36/80
CLAY FRACTION
SAMPLE LOCATIONS

REF. SK55 - 5	
SCALE 1 : 100 000	DRAWN R.T. G.W.
AUTHOR J. W.	REPORT No. 13094
DATE 19 - 3 - 1984	PLAN No. TASH 1687

0-15

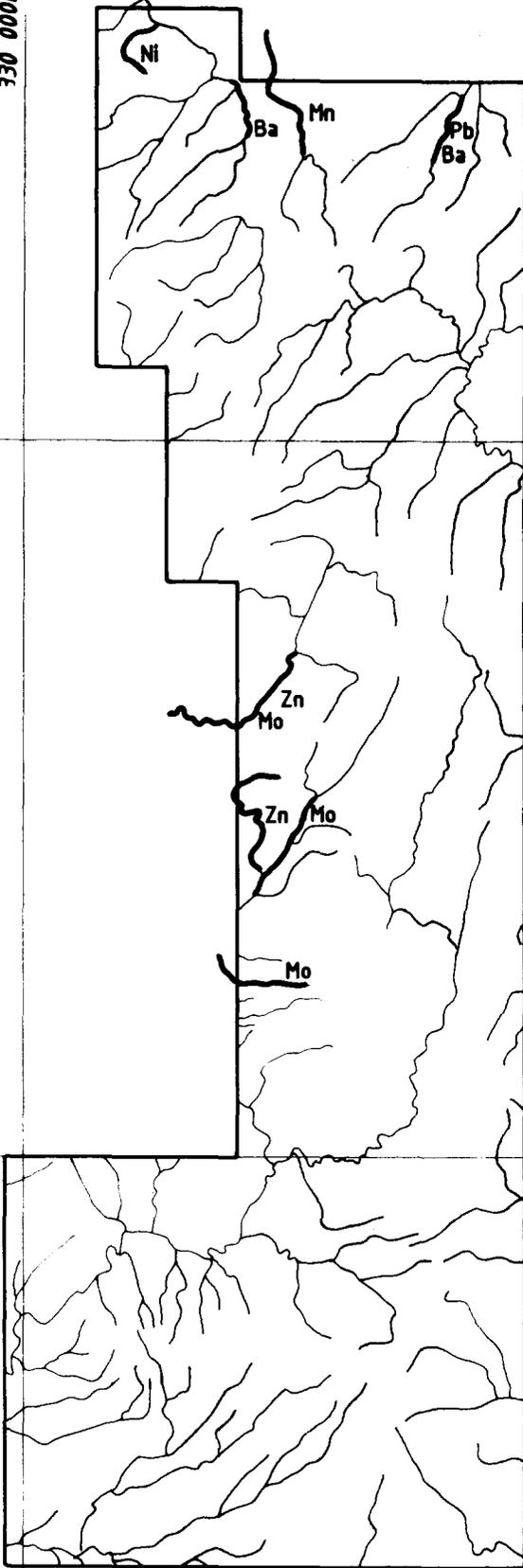
189077

330 000mE

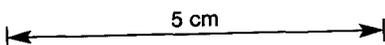
340 000mE

5 410 000mN

5 400 000mN



CRA EXPLORATION PTY. LIMITED
INTERVIEW PINNACLES E.L.36/80
CLAY FRACTIONS
WORM DIAGRAM
(ANOMALOUS).



REF SK55-5
 SCALE 1:100 000
 AUTHOR J.W.
 DATE 2-2-1985

DRAWN M.D.
 REPORT No. 13094
 PLAN No. TASH 2490

85-2377

076

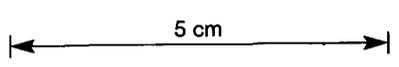
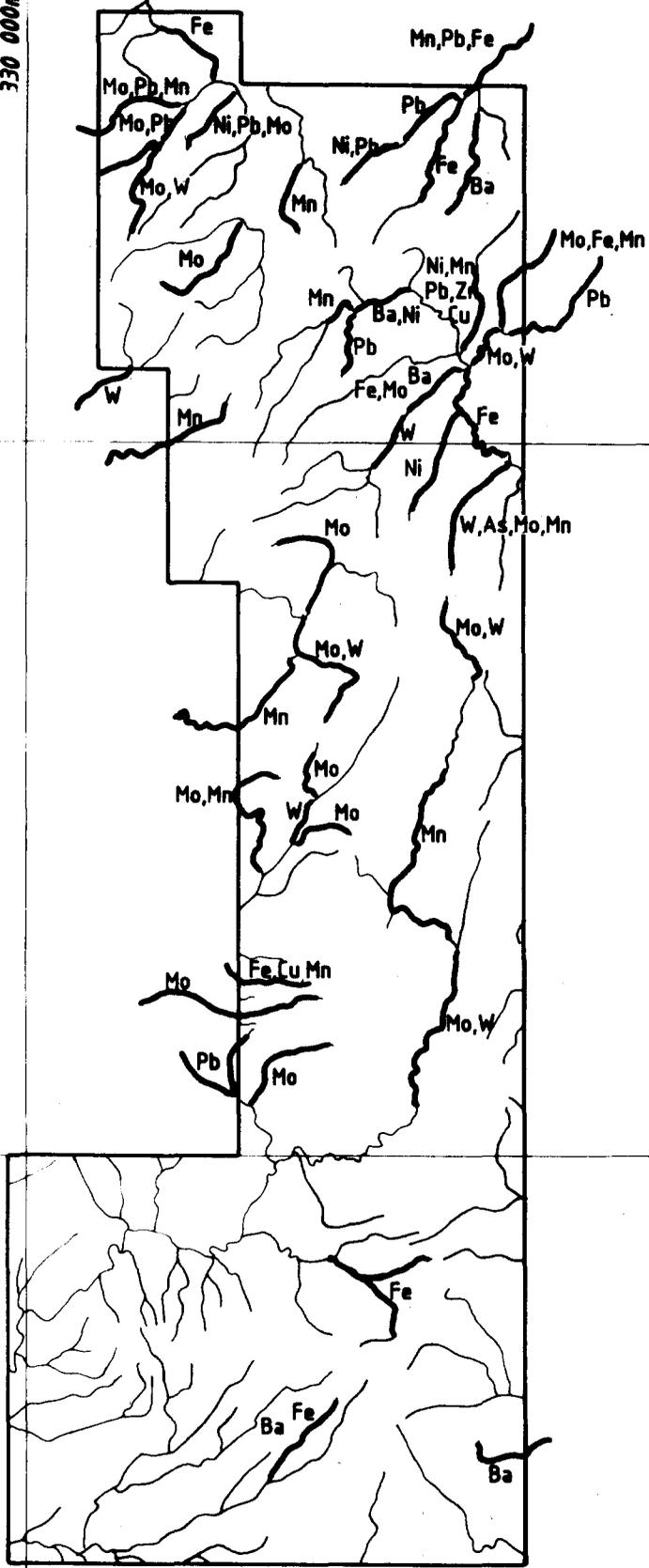
189078

330 000mE

340 000mE

5 410 000mN

5 400 000mN



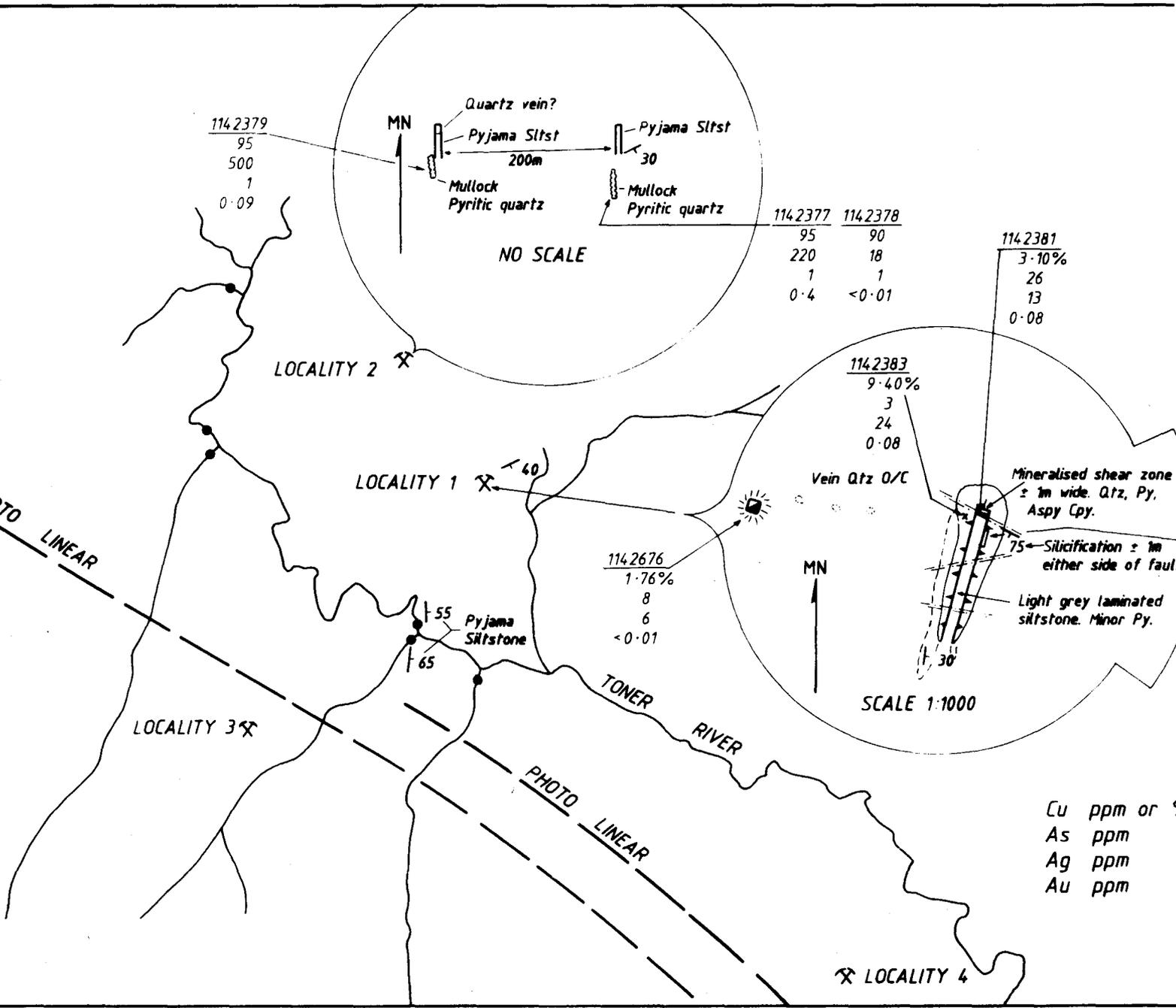
CRA EXPLORATION PTY. LIMITED

**INTERVIEW PINNACLES E.L.36/80
CLAY FRACTIONS
WORM DIAGRAM
(POSSIBLY ANOMALOUS)**

REF	SK55-5	DRAWN	M.D.
SCALE	1:100 000	REPORT No.	13094
AUTHOR	J.W.	PLAN No.	TASE 2491
DATE	2-2-1985		

85-2377

189080



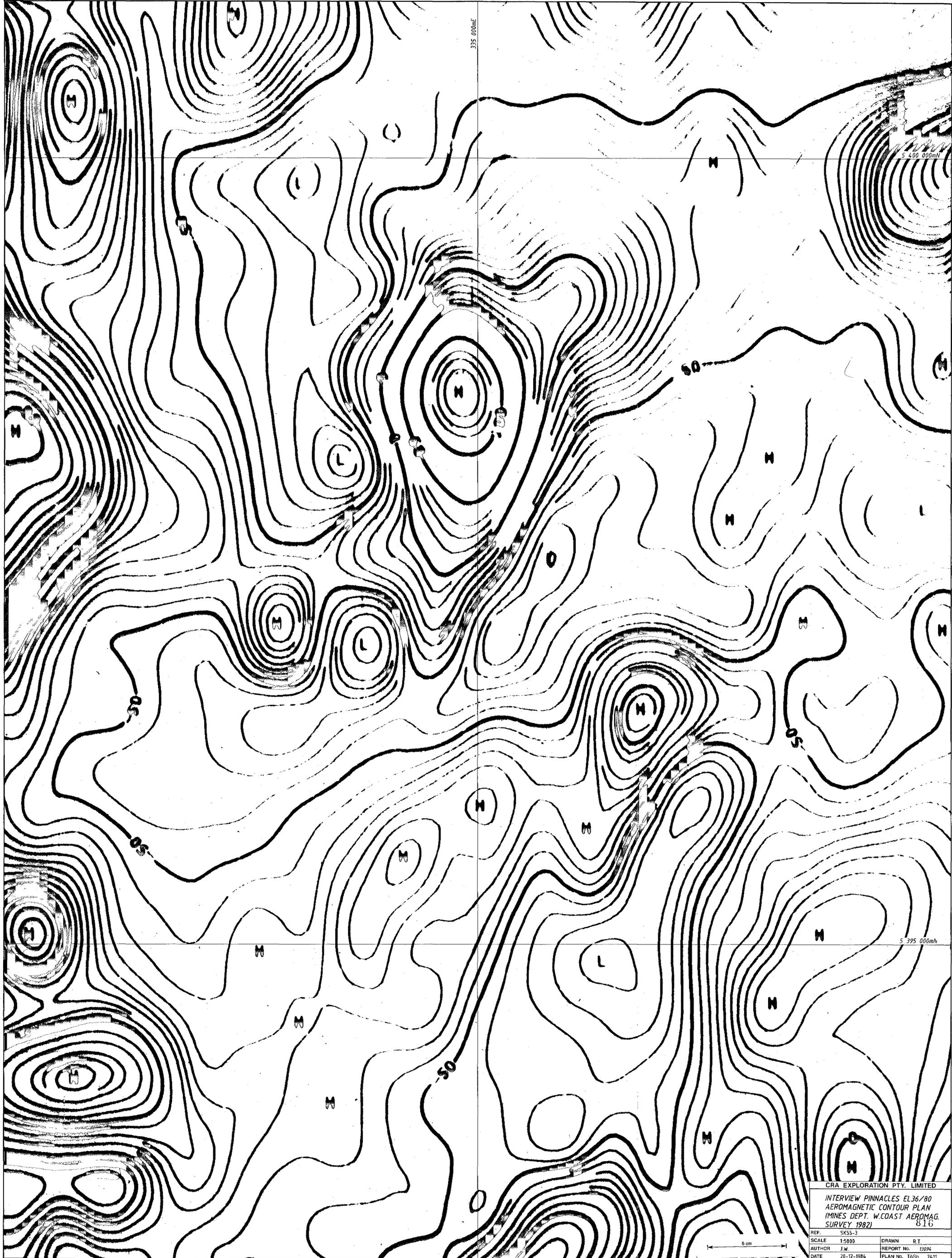
CRA EXPLORATION PTY. LIMITED

INTERVIEW PINNACLES E.L. 36/80
 SKETCH MAP TONER RIVER
 COPPER WORKINGS

REF.	SK55 - 5
SCALE	1 : 2000 Approx.
AUTHOR	J. W.
DATE	26 - 3 - 1984
DRAWN	R. T.
REPORT No.	13094
PLAN No.	TASH 1710

5 cm

85-2377



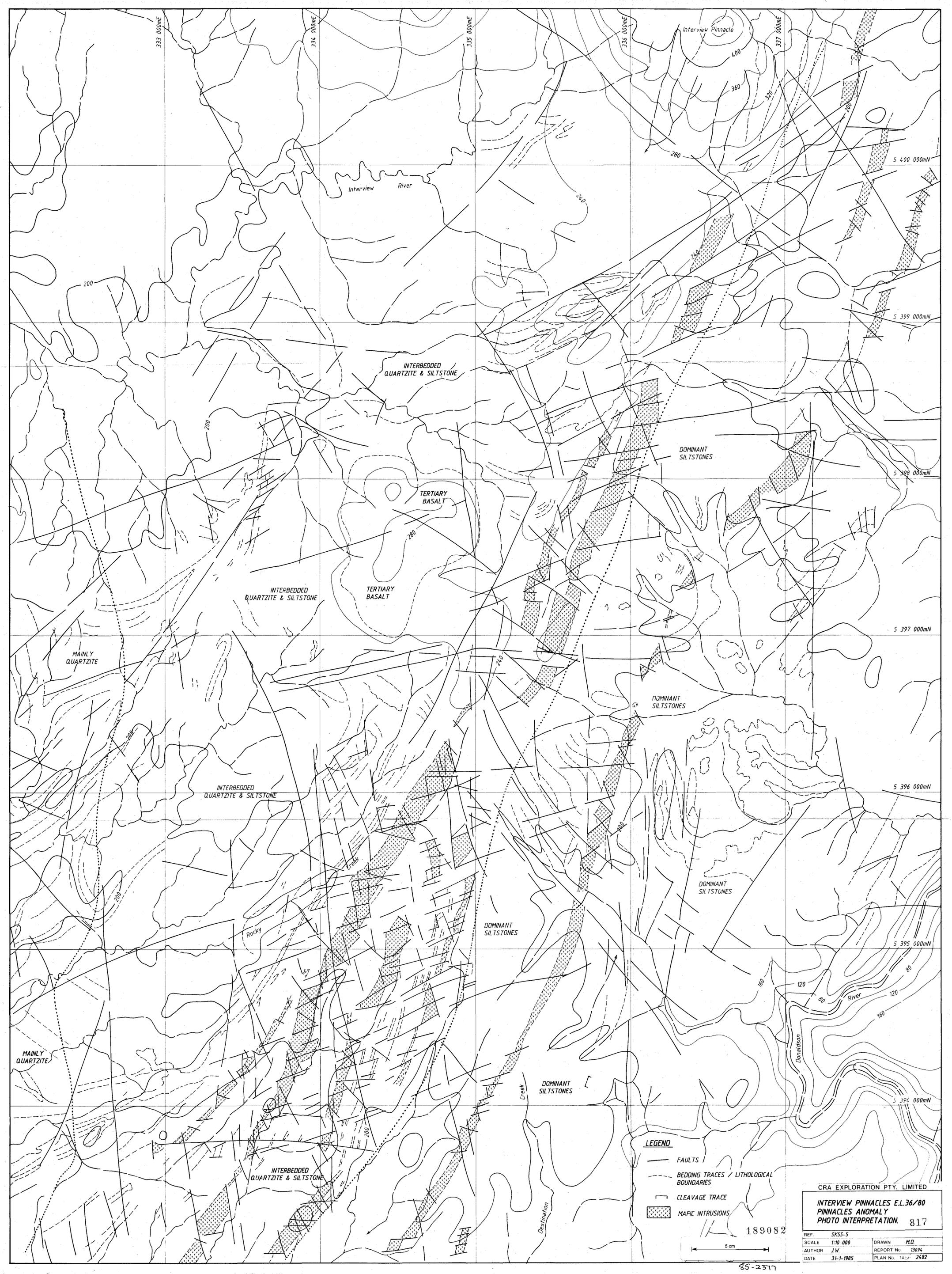
189081

CRA EXPLORATION PTY. LIMITED
INTERVIEW PINNACLES EL36/80
AEROMAGNETIC CONTOUR PLAN
(MINES DEPT. W.COAST AEROMAG
SURVEY 1982) 816

SCALE	1:5000	DRAWN	R.T.
AUTHOR	J.W.	REPORT No.	13094
DATE	20-12-1984	PLAN No.	TASH 2411

85-2377

6 cm



LEGEND

- FAULTS
- - - BEDDING TRACES / LITHOLOGICAL BOUNDARIES
- · · · · CLEAVAGE TRACE
- ▨ MAFIC INTRUSIONS

CRA EXPLORATION PTY. LIMITED
INTERVIEW PINNACLES E.L.36/80
PINNACLES ANOMALY
PHOTO INTERPRETATION. 817

REF. SK55-5
 SCALE 1:10 000 DRAWN M.D.
 AUTHOR J.W. REPORT No. 13094
 DATE 31-1-1985 PLAN No. TASP 2482

189082
 5 cm



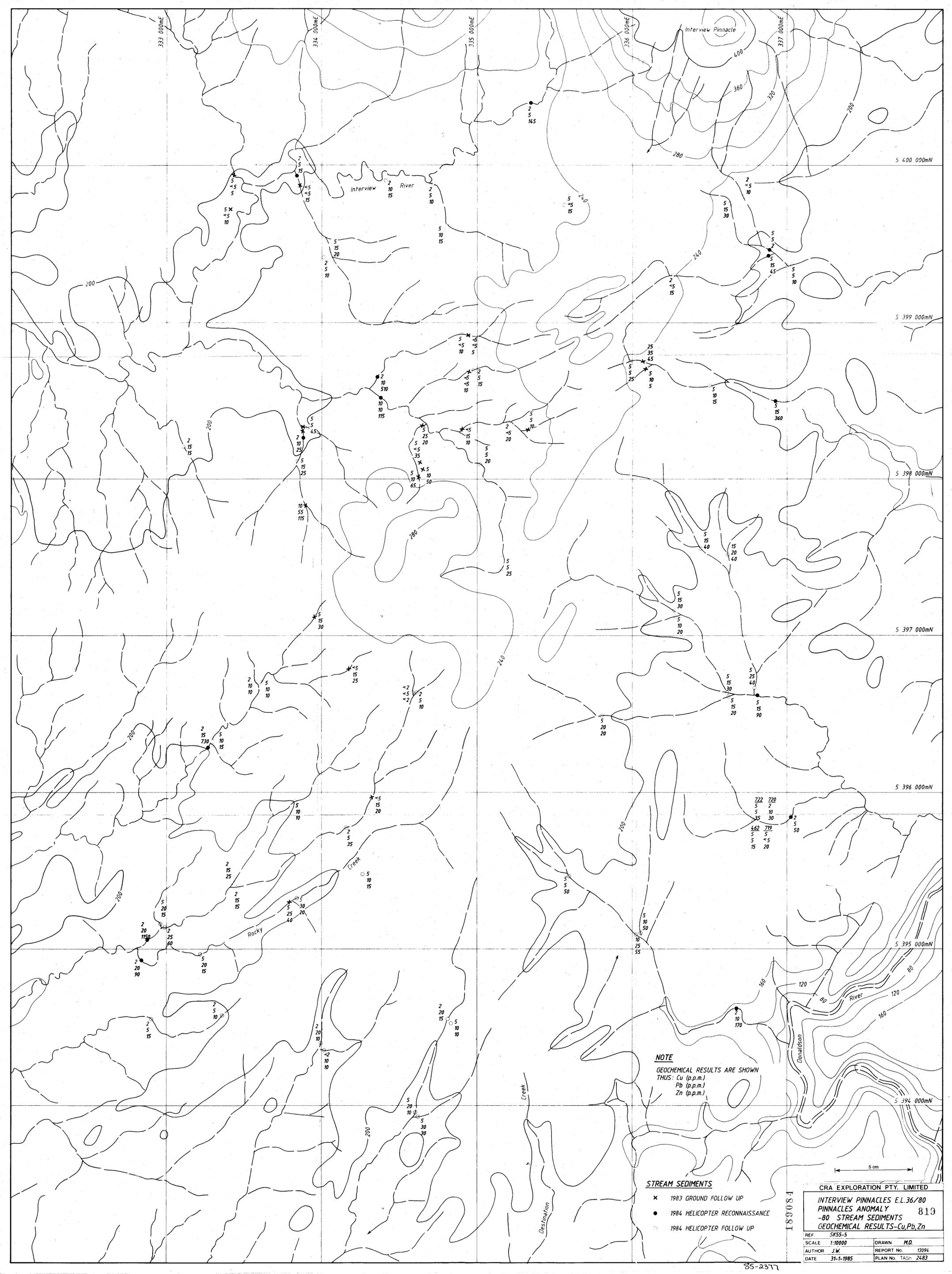
STREAM SEDIMENTS

- x 1983 GROUND FOLLOW UP
- 1984 HELICOPTER RECONNAISSANCE
- 1984 HELICOPTER FOLLOW UP



189083

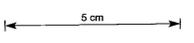
CRA EXPLORATION PTY. LIMITED	
EL36/80 INTERVIEW PINNACLES PINNACLES ANOMALY SAMPLE LOCATIONS 818	
REF. SK55-5	DRAWN M.D.
SCALE 1:10000	REPORT No. 13094
AUTHOR J.W.	PLAN No. TASH 2475
DATE 19-12-1984	



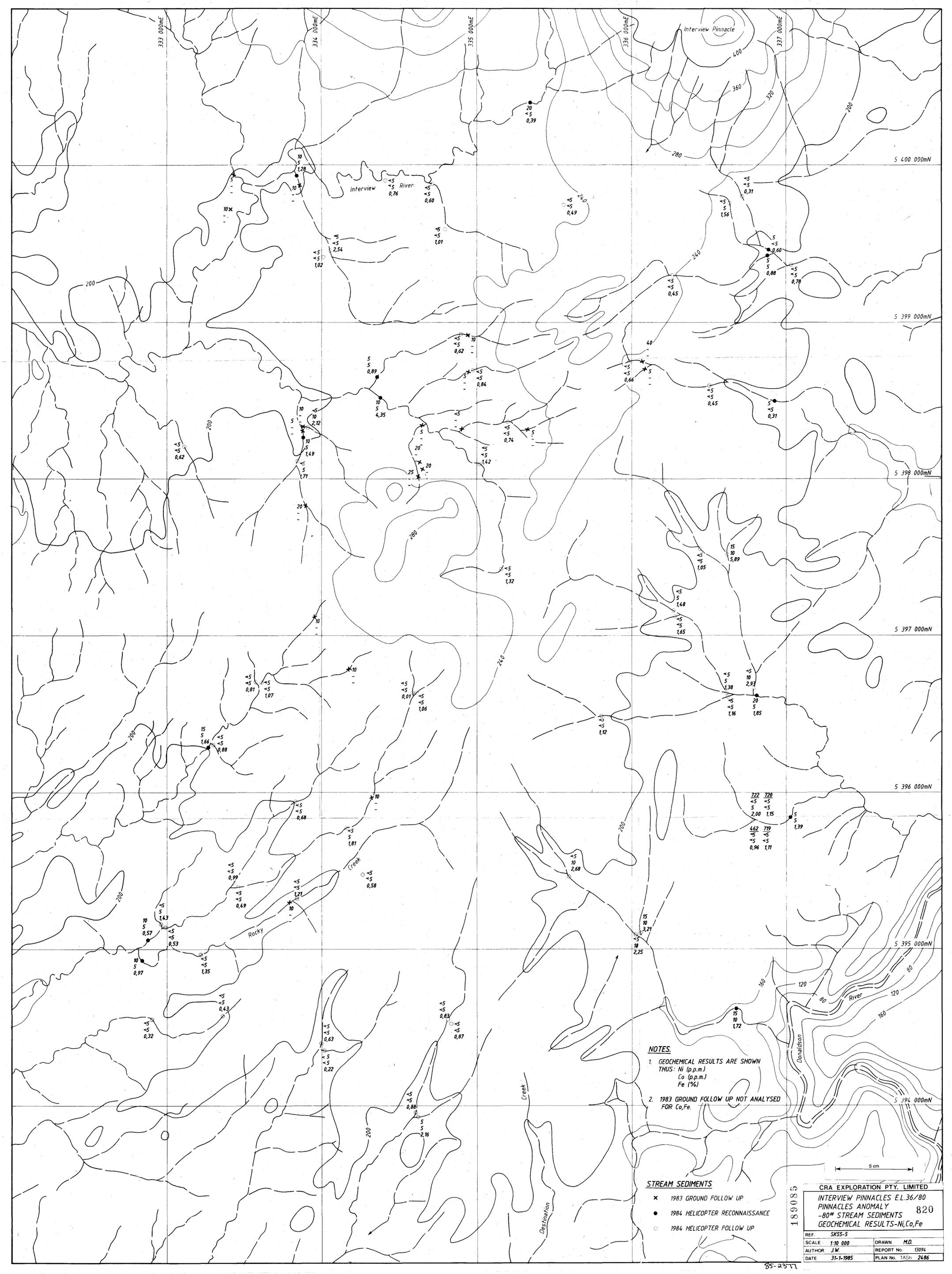
NOTE
 GEOCHEMICAL RESULTS ARE SHOWN
 THUS: Cu (p.p.m.)
 Pb (p.p.m.)
 Zn (p.p.m.)

STREAM SEDIMENTS

- × 1983 GROUND FOLLOW UP
- 1984 HELICOPTER RECONNAISSANCE
- 1984 HELICOPTER FOLLOW UP



CRA EXPLORATION PTY. LIMITED	
INTERVIEW PINNACLES E.L.36/80	
PINNACLES ANOMALY 819	
-80 STREAM SEDIMENTS	
GEOCHEMICAL RESULTS-Cu,Pb,Zn	
REF. SK55-5	
SCALE 1:10000	DRAWN M.D.
AUTHOR J.W.	REPORT No. 13094
DATE 31-1-1985	PLAN No. TAsn 2483



NOTES

1. GEOCHEMICAL RESULTS ARE SHOWN THUS: Ni (p.p.m.)
Co (p.p.m.)
Fe (%)
2. 1983 GROUND FOLLOW UP NOT ANALYSED FOR Co, Fe.

STREAM SEDIMENTS

- × 1983 GROUND FOLLOW UP
- 1984 HELICOPTER RECONNAISSANCE
- 1984 HELICOPTER FOLLOW UP

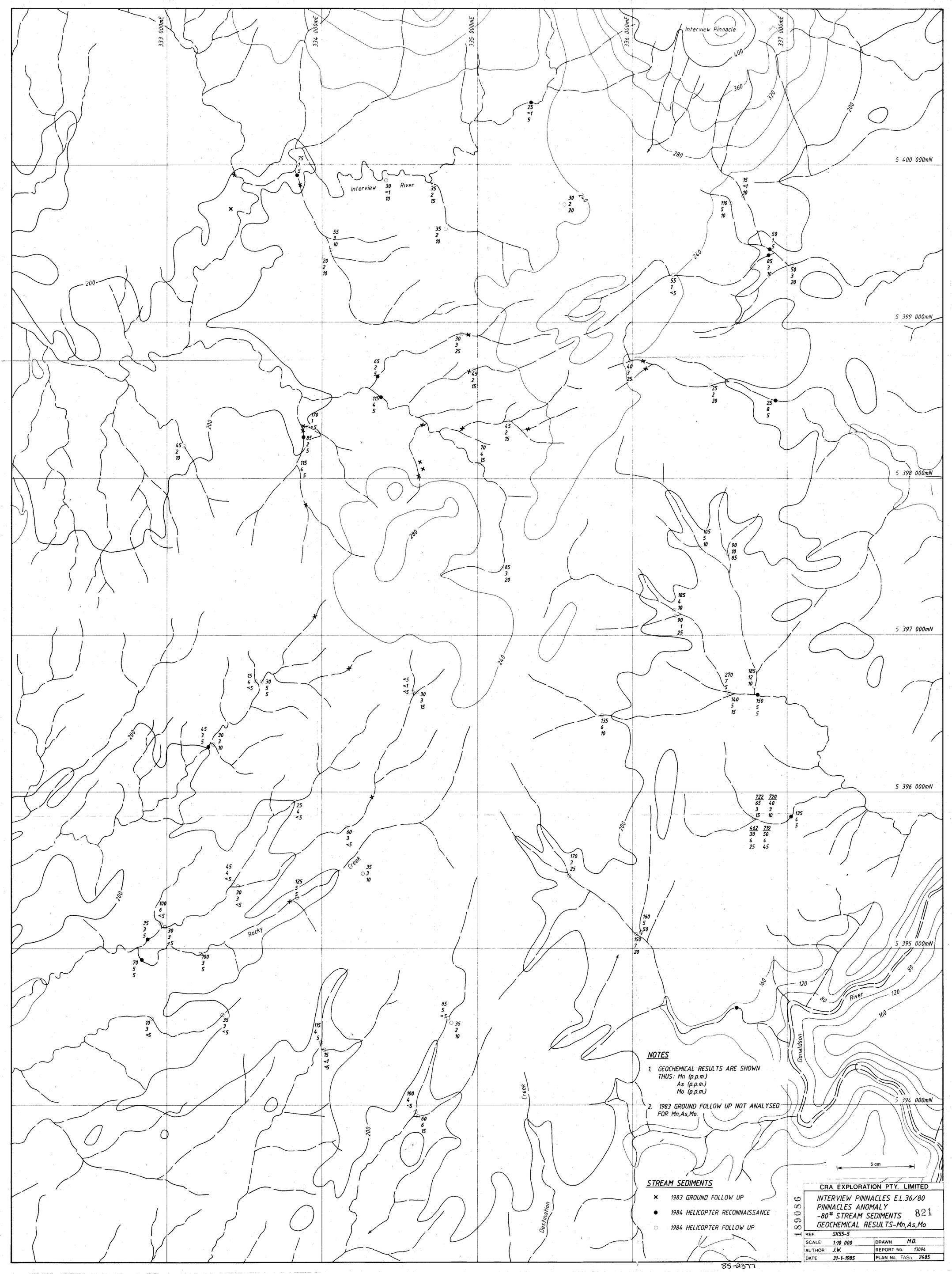
189085

5 cm

CRA EXPLORATION PTY. LIMITED

INTERVIEW PINNACLES E.L. 36/80
PINNACLES ANOMALY 820
-80# STREAM SEDIMENTS
GEOCHEMICAL RESULTS-Ni, Co, Fe

REF: SK55-5	DRAWN: M.D.
SCALE: 1:10 000	REPORT No: 13094
AUTHOR: J.W.	PLAN No: TASH 2486
DATE: 31-1-1985	



NOTES

1. GEOCHEMICAL RESULTS ARE SHOWN
THUS: Mn (p.p.m.)
As (p.p.m.)
Mo (p.p.m.)
2. 1983 GROUND FOLLOW UP NOT ANALYSED
FOR Mn,As,Mo.

STREAM SEDIMENTS

- x 1983 GROUND FOLLOW UP
- 1984 HELICOPTER RECONNAISSANCE
- 1984 HELICOPTER FOLLOW UP

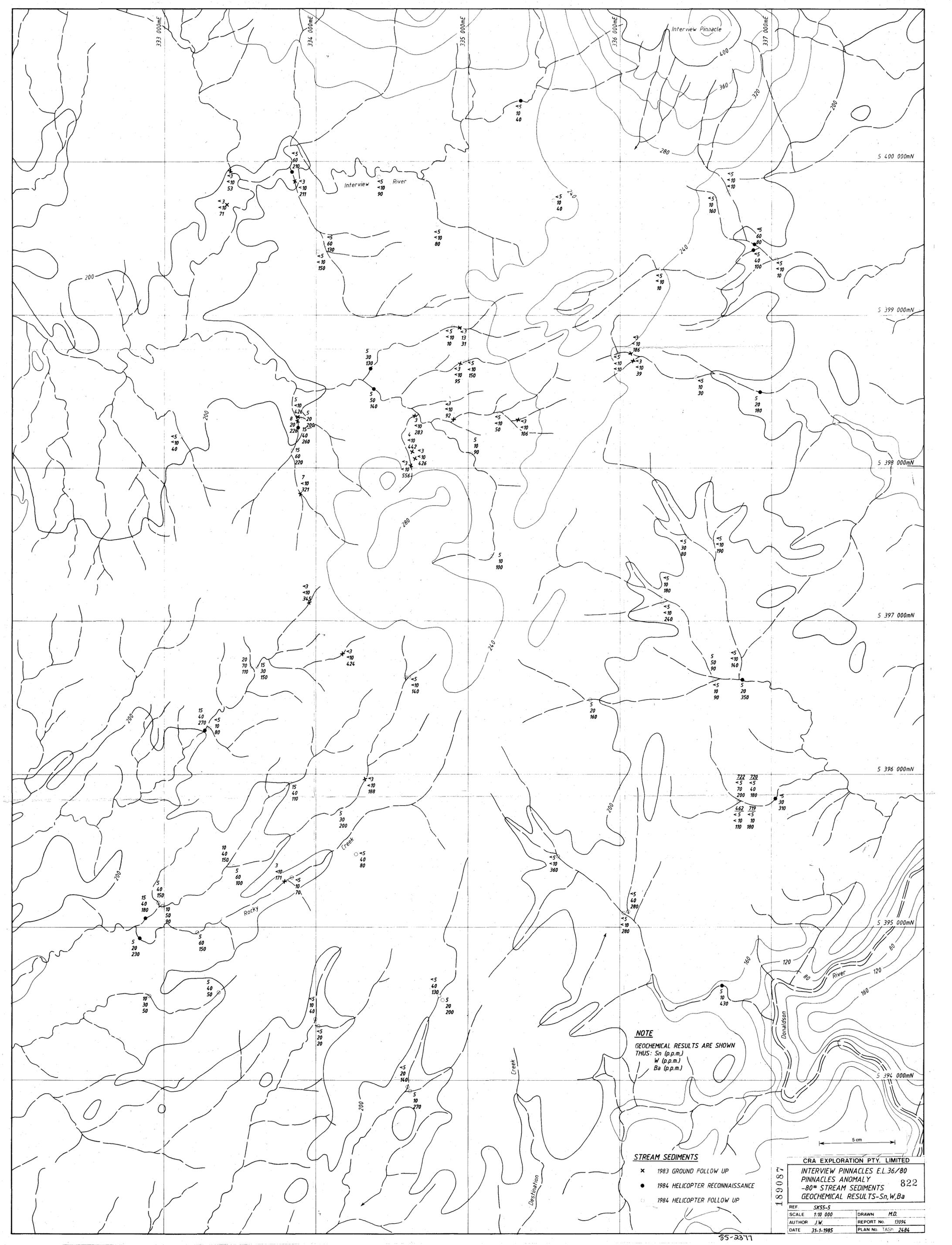
CRA EXPLORATION PTY. LIMITED

INTERVIEW PINNACLES E.L.36/80
PINNACLES ANOMALY
-80° STREAM SEDIMENTS 821
GEOCHEMICAL RESULTS-Mn,As,Mo

REF: SK55-5

SCALE 1:10 000	DRAWN M.D.
AUTHOR J.W.	REPORT No. 13094
DATE 31-1-1985	PLAN No. TAsn 2485

85-2377



NOTE
 GEOCHEMICAL RESULTS ARE SHOWN
 THUS: Sn (p.p.m.)
 W (p.p.m.)
 Ba (p.p.m.)

STREAM SEDIMENTS

- × 1983 GROUND FOLLOW UP
- 1984 HELICOPTER RECONNAISSANCE
- 1984 HELICOPTER FOLLOW UP

5 cm

CRA EXPLORATION PTY. LIMITED	
INTERVIEW PINNACLES E.L. 36/80	
PINNACLES ANOMALY 822	
-80# STREAM SEDIMENTS	
GEOCHEMICAL RESULTS-Sn, W, Ba	
REF SK55-5	DRAWN M.D.
SCALE 1:10 000	REPORT No. 13094
AUTHOR J.W.	DATE 31-1-1985
	PLAN No. TASH 2484