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ROCKY CAPE EL 1/77

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REPORT NO: 13114

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1. SUMMARY

A helicopter borne drainage geochemical survey was completed over the central and southern inaccessible portions of the Licence area. Access by helicopter south of the Pieman River was hampered by excessive vegetation. Three types of sample were collected at approximately 125 sites, a minus 80 mesh stream sediment, a panned concentrate and a clay fraction, together with available rock samples. A number of mine workings in the vicinity of Dohertys Pimple and Mt Holloway were evaluated simultaneously.

A minus 80 mesh stream sediment anomaly (1700 ppm zinc) in the vicinity of Mt Holloway was followed up by further stream sediment sampling.

Mineralogical and analytical results were received from the Alert Creek area, investigating the cause of a number of tin anomalies previously obtained in panned concentrates.

Follow-up of a 1700 ppm barium stream sediment anomaly in the Blackwater Rivulet was completed by further stream sediment sampling.

Aeromagnetic anomalies defined by either the RTZ (1956) or West Coast (1982) airborne surveys were followed up at the Frankland River prospect, the North Arthur anomalies (seven discrete aeromagnetic highs) and the Salmon River prospect. In each case, 'C' horizon soil geochemistry, ground magnetics and a GENIE EM survey were completed. Grid line locations are plotted on Plan TASH 2533.A Drill target was recommended for the Red anomaly (North Arthur area).

2. INTRODUCTION

Exploration this period has been aimed at achieving a "first pass" coverage of the inaccessible portions of EL 1/77 and to upgrade and drill existing prospects with a view to relinquishing the majority of the Licence area according to the new Mines Department regulations.

3. CONCLUSIONS

Reconnaissance drainage sampling has indicated a number of tin, tungsten, barium anomalies south of the Pieman River worthy of follow-up.

Detailed follow-up of the Frankland River, Salmon River, Blackwater Rivulet, Alert Creek, Mt Holloway and the majority of the North Arthur anomalies failed to indicate geophysical or geochemical responses of sufficient merit to warrant drill testing.

Exploration at the Red anomaly (N.Arthur area) has given sufficient encouragement to warrant drill testing for shale hosted lead-zinc and stratiform sulphides.

4. RECOMMENDATIONS

4.1 Red Anomaly (North Arthur area)

A strong Genie EM conductor with roughly coincident soil geochemistry (400 ppm Zn, 100 ppm Cu and 100 ppm Pb) and a small magnetic peak warrants drill testing.

Any further work in the North Arthur area would be dependent on the drilling results.

4.2 Pieman South

Anomalous tin, tungsten, barium values, together with minor lead and zinc obtained in panned concentrates and stream sediments should be followed up by further drainage geochemistry. Particular attention should be given to the possibility of gold mineralisation since this catchment area drains the strike continuation of the Arthur Lineament, within which numerous alluvial gold workings are known in the Corinna district.

5. RECONNAISSANCE DRAINAGE GEOCHEMISTRY

Three types of drainage sample were collected during a helicopter borne drainage geochemical survey of the Rocky Cape Joint Venture areas. The survey was designed to infill gaps left by previous geochemical surveys and to test a number of aeromagnetic anomalies defined by the Department of Mines West Coast aeromagnetic survey. Approximately 125 sites were sampled at an average density of 1 sample per 2-3 Km² between Balfour and Granville Harbour. Helicopter access was severely hampered south of the Pieman River owing to dense vegetation.

5.1 Sampling Techniques

Ideally, the following techniques were used but in a number of cases, creeks were dry and bulk 20 kg samples were collected in the field and processed later.

5.1.1 Clay Fraction

A panfull of sediment collected from suitable trap sites was stirred in water to release the fine fractions. The resultant muddy liquid was

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poured into a plastic bag and left to settle whilst the remaining samples were collected. The excess water was carefully decanted off and the samples dried and sieved to minus 100 mesh.

5.1.2 Stream Sediment

Sediment was collected from a number of trap sites and sieved to minus 3mm in a minimum of water until a 16 inch diameter pan was full. The minus 3mm material was quartered, bagged, dried and sieved to minus 80 mesh.

5.1.3 Panned Concentrate

Sufficient minus 1mm sediment to fill a 13 inch diameter pan was collected from suitable trap sites within the creek. This material was later sieved to minus 60 mesh and panned to approximately 50-100 grams.

5.2 Assay Techniques

All samples were sent to ALS Laboratories in Brisbane for analysis. Stream sediments and clay fractions were analysed for the following elements:-

Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As by ICP 580

Sn, W, Ba by XRF1A

Similarly for the rock chip samples though

Fe and Mn were excluded

The Panned concentrates were analysed as follows:-

Cu, Pb, Zn, Ni, Co, Mo, Ag, Fe, Mn, Cr by

ICP 587

Sn, W, Ba by XRF1A

Au by PM 209 (Fire assay/AAS)

The difference in ICP techniques was to account for the expected increase in iron in the panned concentrates.

5.3 Interpretation

Data for each sample type was processed using the computer program MICROGAS. Histograms were plotted for log-element data and cut points selected on the basis of Mean + 2 standard deviations and by "eyeballing" the histograms. Symbol maps and "worm diagrams" were subsequently prepared.

In each case, data from the whole survey was interpreted, some of which falls within EL 12/80 and EL 36/80.

5.3.1 Stream Sediments

Sample locations - Plan TASH 2508

Log Element distribution - Plan TASH 2497

Worm diagrams - Plans TASH 2513 and 2514

Sample ledgers and assay results - Appendix 1

Threshold values are listed in Table 1.

	Anomalous ppm	Possibly Anomalous ppm	High Background ppm
Cu	> 14	6 - 14	-
Pb	> 25	15 - 25	-
Zn	>1000	251 - 1000	63 - 251
Ni	-	> 38	19 - 38
Co	-	-	> 8
As	> 14	6 - 14	4 - 6
Ag	-	>1.6	0.9 - 1.6
Fe	>1.99%	1.54 - 1.99%	1.0 - 1.54%
Mn	> 218	147 - 218	100 - 147
Sn	> 125	50 - 125	10 - 50
W	> 66	35 - 66	-
Ba	> 398	281 - 398	158 - 281
Mo	>14.5	9.7 - 14.5	-

TABLE 1 - THRESHOLD VALUES FOR STREAM SEDIMENTS

Anomalies obtained are as follows:-

South Pieman - Anomalous concentrations of tin (>1000 ppm), tungsten and barium, together with possibly anomalous lead and zinc drain the western margin of the Tikkawoppa Plateau

Mt Holloway - 1700 ppm zinc was reported from a single sample in the vicinity of Mt Holloway

Waratah Creek - Anomalous levels of zinc and tungsten were obtained from this drainage system

Norfolk Ranges - A number of possibly anomalous tungsten values were obtained from this area but are not considered significant

5.3.2 Panned Concentrates

Sample locations - Plan TASH 2509

Log Element distribution - Plan TASH 2498

Worm diagrams - Plans TASH 2515 and 2516

Sample ledgers and assay results - Appendix 2

Threshold values for panned concentrates are listed in Table 2.

	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 2 - PANNED CONCENTRATES, THRESHOLD VALUES

The following anomalies were obtained:-

- South Pieman - Anomalous levels of tin and gold together with possibly anomalous values of Cr, Mn, Mo and Ag drained the western margin of the Tikkawoppa Plateau. Assay values for tin are very high (>1000 ppm) which suggests a Tertiary/Recent gravel origin
- Woody Peak - Anomalous gold values were obtained in three creeks draining an area of 5 Km² between Mt Hazleton and Mt Lily. Field inspection of mine workings in this vicinity noted high level Tertiary/Recent gravels within the catchment area. Possibly anomalous values of Cr, Fe and Mo support the gold anomaly.
- Dohertys Pimple - Anomalous values of Pb, Mo and Ag drain an area of known copper workings. A positive correlation between Pb and Mo exists and is thought to represent the mineral wulfenite (a secondary lead molybdate) which is not recorded from descriptions of the Mine Workings. Possibly anomalous levels of Cu, Co and W support this anomaly

Other anomalies of note are as follows but are not considered significant:-

- Mt Sunday - Possibly anomalous levels of Ag and Mn

Norfolk - Possibly anomalous levels of Cr
Ranges

Waratah - Possibly anomalous concentrations
Creek of Pb and Mo

5.3.3 Clay Fractions

Sample locations - Plan TASH 2510

Log Element distributions - Plan TASH 2499

Worm diagrams - Plans TASH 2517 and 2518

Sample ledgers and assay results - Appendix 3

Threshold values are listed in Table 3.

	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

TABLE 3 - CLAY FRACTIONS - THRESHOLD VALUES

South Pieman - Anomalous concentrations of tin together with possibly anomalous levels of W, Mo and Mn drain the Tikkawoppa Plateau

Lindsay River - Anomalous concentrations of Pb, Mo, Fe and Mn, together with possibly anomalous concentrations of most of the elements analysed are considered to reflect weak vein mineralisation known in this area, and are not considered significant

5.4 Discussion

Two anomalies are considered worthy of follow-up; Pieman South and Mt Holloway. The remaining anomalies are interpreted to reflect either weak vein mineralisation or Tertiary/Recent gravels.

Of the three sample types, the minus 80 mesh stream sediments were considered to be the most effective. It was hoped that the clay fractions might provide a more sensitive sample medium, but in most instances, failed to reflect the stream sediments.

5.5 Rock Chips

Routine rock chip samples of outcrop or float were collected at the majority of sample sites. Sample locations are plotted on Plan TASH 2511 whilst ledgers and assay results are located in Appendix 4.

6. MT HOLLOWAY ANOMALY

(Plan TASH 2505)

A 1700 ppm zinc anomaly in stream sediments obtained during the reconnaissance drainage survey was followed up by further stream sediment sampling. Five samples were collected from the original sites and surrounding tributaries. Assay results (Appendix 1) failed to repeat the anomaly which is considered to be caused by colloidal zinc deposited during the summer months when the creeks were dry.

7. MINE WORKINGS

Copper workings in the vicinity of Doherty's Pimple and Mt Holloway were assessed during the reconnaissance drainage survey. Neither of the workings have tonnage potential.

7.1 Doherty's Pimple (Plan TASH 2530)

The mine workings at Doherty's Pimple comprise a number of trenches parallel to and at right angles to the line of lode (310° magnetic). Mineralisation consists of pyrite, chalcopyrite and secondary copper minerals in quartz vein approximately 2m thick infilling a shear zone within "pyjama type" siltstones. Some hematitic alteration of the siltstones is evident in a trench to the south. Assay results indicate a maximum 3.98% copper and 0.45 ppm gold from mullock samples.

7.2 Mt Holloway (Plan TASH 2531)

Minor copper workings comprising a single trench occur in the Lagoon river valley to the northwest of Mt Holloway.

Mineralisation is dominantly pyrite and chalcopyrite in a narrow 1m wide fault zone. Maximum assays of 12.5% Cu and 14 ppm Ag were obtained from the fault zone.

8. ALERT CREEK TIN
(Plans TASH 1591, 1592)

A suite of panned concentrates from bulk (20 kg) samples representing aeolian sands, gravels and fluvial sands were despatched for mineralogical and chemical analysis (Appendix 5) in an attempt to explain the source of anomalous tin obtained in stream sediments and panned concentrates reported previously (Weir, 1984).

Chemical analysis of the samples indicates a maximum 18.8% Cr and 2.2% Sn.

Mineralogical investigation indicated that the cassiterite is very well rounded and has been transported a considerable distance.

It is concluded that the source of the cassiterite is remote and probably derived from the erosion of stanniferous granites to the southeast as a result of Tertiary peneplanation.

The high degree of concentration of the samples by panning precludes the possibility of ore grade alluvial material.

9. BLACKWATER RIVULET
(Plan TASH 2532)

A minus 80 mesh stream sediment anomaly (max 1700 ppm Ba, 210 ppm Zn, 23 ppm As, 25 ppm Pb) draining the contact between the Smithton dolomite and Cambrian mafic volcanics was followed up by further stream sediment and rock chip sampling.

Resampling failed to repeat the original anomaly though gold values (max 200 ppb) were obtained and are interpreted as being derived from Tertiary gravels. Sample ledgers and assay results are presented in Appendix 6.

10. FRANKLAND RIVER PROSPECT

Regional stream sediment sampling indicated a weak lead (max 30 ppm), zinc (max 87 ppm), barium (max 150 ppm) and arsenic (max 49 ppm) anomaly draining an aeromagnetic high approximately 5 Km x 1 Km in dimensions, (Weir 1984).

Three grid lines approximately 1.5 Km apart, totalling 10 Km were constructed. Ground magnetics, a Genie EM survey and 'C' horizon soil sampling using a hand auger, were completed over the grid.

10.1 Geology (Plan TASH 2383)

Mapping has indicated a northeasterly dipping (45°) and facing sequence of Precambrian quartzite, black shale, grey to black siltstone and green banded siltstones containing magnetite and leucoxene.

A northwesterly trending shear zone marked by an increase in silicification and minor hematitic alteration of the siltstones can be traced from the Rebecca quarry through to Line 6500N. This zone is interpreted to represent the continuation of weak copper mineralisation observed at the Clump prospect.

Mapping shows good correlation between Lines 6500N and 8000N though there is significant displacement by faulting on Line 5000N.

This sequence of rock types is equivalent to those observed on the eastern margin of the Smithton trough where gradational contacts between black shales through grey siltstone to green banded siltstones are observed in road cuttings.

10.2 Geophysics

Ground magnetics and a Genie EM survey were completed over the grid. Ground magnetic readings were taken at 12.5m intervals and profiles plotted (Plans TASH 1660-1662). EM readings were taken at 25m intervals using two frequency pairs (337 Hz/112 Hz and 3037 Hz/112 Hz) and a transmitter/receiver spacing of 100m.

Ground magnetics indicate that the anomalies are lithologically related and characterised by a sharp magnetic low. A 1 Km displacement between these lows is noted between lines 5000N and 6500N.

EM profiles (Plans TASH 2301-2303) on lines 6500N and 8000N show areas of very high conductivity east of 3200E. Neither the ground magnetic highs nor the EM anomalies are coincident.

A full interpretation of the geophysics is located in Appendix 7.

10.3 Geochemistry

'C' horizon soil samples were collected using a hand auger at 25-50m intervals designed to test the magnetic and EM anomalies.

Routine rock chip and minus 80 mesh stream sediment samples were also collected. Sample locations are plotted on Plans TASH 2376 and assay results (Appendix 8) are plotted on Plans TASH 2377-2382.

The soil geochemistry was very uninteresting with maximum values of 30 ppm Cu, 40 ppm Pb, 115 ppm Zn, 28 ppm As, 720 ppm Mn and 6.29% Fe returned, none of which forms a coherent anomaly.

10.4 Conclusions

The aeromagnetic and ground magnetic anomalies are attributed to the presence of magnetite in the green banded siltstones. The EM anomalies are attributed to the black carbonaceous shales which do not possess anomalous soil geochemistry. Conductivity contrasts observed in the black shales are attributed to the variable nature of the rock unit - black shales grading to grey siltstones.

No further work is warranted at this prospect.

11. SALMON RIVER PROSPECT

Initial attention was focused on this prospect by the presence of a 150 ppm tungsten anomaly in panned concentrates, reported by ANZECCO (Brandt 1973) which drains a small aeromagnetic high.

Minus 80 mesh stream sediment and panned concentrate follow up failed to repeat the tungsten anomaly but returned maximum assay values of 1000 ppm Sn, 200 ppm As and 156 ppm Pb.

Detailed drainage geochemistry of the catchment area together with two lines of soil sampling failed to repeat the Sn, As, Pb anomaly which was attributed to contamination from the Arthur River flood plain (Weir 1984). However anomalous gold values, maximum 1.4 ppm Au in panned concentrates and two soil values of 0.57 ppm and 0.15 ppm Au, justified continued exploration.

The original grid was extended and a programme of 'C' horizon soil geochemistry, ground magnetics and a Genie EM survey was implemented.

11.1 Geology (Plan TASH 2366)

The prospect comprises an easterly facing and dipping sequence of Precambrian interbedded grey siltstones and black shales/siltstones. The more carbonaceous shales contain euhedral pyrite along bedding planes and develop frequent limonite weeps. The sequence strikes to the northwest and dips to the northeast at 50-60°.

A thin veneer of Tertiary/Recent quartz gravels overlie these units and are restricted to the crests of ridges.

11.2 Geophysics

Full details of ground geophysics and their interpretation is located in Appendix 7.

11.2.1 Ground Magnetics

Readings were taken at 12.5m intervals over the whole grid. Profiles (Plans TASH 2415-2419) indicate a small, sharp, narrow peak evident on all lines.

11.2.2 Genie EM Survey

EM profiles (Plans TASH 2297-2300) indicate a weak conductor coincident with the magnetic peaks, which are best developed on Line 5450N. Depth to top is 30m with an 80° dip to the west which is at variance with the local geology.

11.3 Geochemistry

'C' horizon soil samples were collected at 25m intervals over the grid using a power auger. Sample locations are plotted on Plan TASH 2367, whilst sample ledgers and assay results are located in Appendix 9. Assay results were very disappointing with maximum values of 30 ppm Cu, 20 ppm Pb, 20 ppm Zn and 26 ppm As reported. No geochemical anomaly is apparent and the values are not of sufficient tenor to reflect significant mineralisation. All gold values reported were below detection limit. A subdued geochemical signature was expected owing to the gravel cover but the power auger did penetrate in the majority of cases.

11.4 Conclusions

Despite the coincidence of ground magnetic and EM responses, the lack of any coherent soil geochemical response precludes further testing of this prospect. No cause to the geophysical responses is apparent on the ground and they are attributed to a fault zone owing to the variance in attitude of the conductor with respect to geology. The gold anomaly initially obtained in soils is attributed to the gravels carrying trace quantities of gold.

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12. NORTH ARTHUR ANOMALIES

Seven discrete aeromagnetic highs situated on a northwesterly trend defined by the RTZ (1956) aeromagnetic survey were considered worthy of follow-up owing to their proximity to the western faultbound margin of the Smithton trough. A basalt source for the aeromagnetic anomalies was suspected though possibilities of lead-zinc mineralisation developed in or at the margin of the Smithton trough, could not be ignored.

One reconnaissance grid line was cut over each of the anomalies (Plan TASH 2533) and 'C' horizon soil geochemistry using a power auger, ground magnetics and a Genie EM survey, was completed over all lines. Full interpretation of the geophysics is located in Appendix 7 whilst sample ledgers and assay results are located in Appendix 11.

12.1 Geology (Plan TASH 2534)

The western margin of the Smithton trough comprises an easterly, steep 70-80° dipping and facing sequence of Precambrian quartzite, chert-silicified dolomite, dolomite and dolomite breccia, Cambrian siltstones and mafic volcanics. The margin between Precambrian and Cambrian rocks is in part faultbound and possibly unconformable? Recent stratigraphic drilling by the Mines Department at Smithton indicates the lack of an unconformity between the Smithton dolomite and the Cambrian sequence (A V Brown, Pers. Comm).

The Precambrian quartzites are white-grey poorly bedded quartzites, in part pyritic and intensely jointed in the vicinity of the trigonometric station on the Ruby anomaly. The cherts are highly silicified grey-white rocks with hints of banding and are restricted in outcrop. Minor dolomite breccia is noted at the

Salmon River bridge. The central body of dolomite observed on the Wallaby anomaly is a cream, fine grained dolomite with little or no apparent silicification. A subdued topography with swampy conditions is developed over this dolomite.

The Cambrian siltstones are grey to black, highly cleaved siltstones and weather to a reddish brown colour - possible hematitic alteration?

The mafic volcanics are of basic to intermediate composition and are basaltic lavas with associated fragmentals, scoriaceous textures being common. A possible andesitic component is tentatively identified (Cowan 1984, Appendix 10) from petrological examination of rocks on the Red anomaly. The volcanics are variably altered, epidote being the most common assemblage.

Tertiary/Recent sands obscure the geology on the northeastern ends of the White and Ruby anomalies.

12.2 Red Anomaly

Geological and geochemical profiles - Plan TASH 2404
Ground magnetic profile - Plan TASH 2420
Genie EM profiles - Plan TASH 2290

'C' horizon soil geochemistry indicates a moderate geochemical anomaly (maximum 400 ppm Zn, 100 ppm Pb, 110 ppm Au) centered at 5425E. This anomaly is semi coincident with a strong EM conductor at 5475E having an associated magnetic contact. Depth to the top of the conductor is approximately 15m with a dip of 70° to the east.

The mafic volcanics underlie a spikey ground magnetic anomaly interpreted to represent the aeromagnetic high. Elevated Cu, Fe and Mn soil geochemistry characterises the mafic volcanics.

A faultzone could be interpreted as being the cause of the geochemical and geophysical anomalies between 5425E and 5475E though the conductor is too great for such an interpretation. This anomaly warrants drill testing.

12.3 White Anomaly

- Geological and geochemical profiles - Plan TASH 2405
- Ground magnetic profile - Plan TASH 2422
- Genie EM profiles - Plan TASH 2292

No major geochemical anomalies were identified over this anomaly though very slightly elevated Cu, Zn, As, Ag and Fe soil geochemistry was recorded at 5450E, in a similar stratigraphic position as the Red anomaly. A shallow EM conductor with an associated magnetic peak was obtained at 5525E. Massive goethite/limonite outcrop and float was mapped in this vicinity and is regarded as being derived from the mafic volcanics.

The aeromagnetic anomaly is attributed to the increased magnetite content of the basalts.

12.4 Ruby Anomaly

- Geological and geochemical profiles - Plan TASH 2410
- Ground magnetic profile - Plan TASH 2421
- Genie EM profiles - Plan TASH 2291

Elevated Cu, Zn, Mn and Fe soil geochemistry was obtained over the mafic volcanics which are considered to be causative of the ground and aeromagnetic anomalies. A major conductor was obtained at 5960E and interpreted to comprise at least two conductors at 5960E and 6090E. Weak copper geochemistry (max 120 ppm Cu) was obtained at this locality which corresponds reasonably closely to the chert-(dolomite)-siltstone contact.

12.5 Electric Blue Anomaly

Geological and geochemical profiles - Plan TASH 2407
Ground magnetics profile - Plan TASH 2424
Genie EM profiles - Plan TASH 2294

Two geochemical anomalies were obtained on this line. The first anomaly centered at 4375E is characterised by 100 ppm Cu and 45 ppm Pb over a background of 5-10 ppm for both elements. A weak EM conductor is present at 4450E though considered to be a shallow surface response. The second geochemical anomaly is centered between 4900E and 5000E consisting of elevated Cu, Pb, Zn and Fe geochemistry and is open to the east. An associated drop in the high frequency EM response at 4900E indicates the start of an EM conductor which is coincident with a noisy magnetic response. This anomaly is probably attributable to the mafic volcanics but the grid line should be extended to the east to fully investigate the cause of the anomaly.

The weak magnetic response at 3950E is underlain by quartzite and a cause cannot be interpreted.

12.6 Rose Blue Anomaly

- Geological and geochemical profiles - Plan TASH 2408
- Ground magnetic profile - Plan TASH 2425
- Genie EM profiles - Plan TASH 2295

Anomalous soil geochemistry copper (max 210 ppm), zinc (max 135 ppm) and iron (max 20.3%) characterise the outcrop of mafic volcanics with interbedded siltstones at the western end of this line. The ground magnetic signature is noisy and indicative of a basalt cause to which the aeromagnetic high is attributed.

An EM conductor with a coincident magnetic high is present at 4730E but has no associated geochemistry. Mafic volcanic rocks underlie this anomaly and no further work is warranted.

12.7 Green Anomaly

- Geological and geochemical profiles - Plan TASH 2406
- Ground magnetic profile - Plan TASH 2423
- Genie EM profiles - Plan TASH 2293

Two soil geochemical anomalies are present on this line, centered at 5125E and 5600E. At 5125E the geochemical response is consistent with basalt mapped at that locality but has no magnetic signature. The geochemical anomaly at 4600E consists of anomalous Cu (max 120 ppm), zinc (max 85 ppm), arsenic (max 12 ppm), manganese (max 110 ppm) and nickel (max 195 ppm) and is coincident with a spikey magnetic peak of approximately 700nT above background and is interpreted to represent a fault zone.

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The major magnetic feature at 4400E is underlain by quartzites and no apparent cause of the anomaly is evident.

The EM responses on this line are rather strange. A conductor at 4375E coincident with a magnetic high is underlain by quartzite. The strong conductor at 4875E is underlain by basalt and siltstones and possibly a carbonaceous siltstone might account for the source. A third conductor is located at 5300E and is underlain by siltstones, numerous ferricrete fragments being observed in the soil samples.

12.8 Wallaby Anomaly

- Geological and geochemical profiles - Plan TASH 2409
- Ground magnetic profile - Plan TASH 2426
- Genie EM profiles - Plan TASH 2296

A broad zone of elevated copper (max 75 ppm), zinc (max 110 ppm), manganese (max 850 ppm) and iron (max 14.5%) soil geochemistry occurs between 4300E and 5150E and is consistent with the interbedded siltstones and mafic volcanics mapped. A broad magnetic peak between 4800E and 5075E is consistent with a basaltic source. The EM response is characterised by very conductive overburden though a conductor obtained at 4750E is consistent with the western margin of the basalt.

13. LOCATION

- Burnie SK55-3 1:250 000 Sheet
- Queenstown SK55-5 1:250 000 Sheet

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14. KEYWORDS

Precambrian siltstone; quartzite, dolomite, black shale, siltstones, carbonates-cherts, Cambrian mafic volcanics, siltstones, Geophysics - ground magnetics, GENIE EM, Assays - surface.

15. LIST OF REFERENCES

- Brandt R T 1973 Summary Report on Exploration Licence 8/72, Tasmania. Australia and New Zealand Exploration Co. unpublished Report. Tasmanian Mines Department open file Q26/3
- Weir D J 1984 Rocky Cape EL 1/77, Progress Report for Year ending 31 January 1984. CRAE unpublished Report No 12484.

16. LIST OF PLANS

Plan		Scale
<u>TASh No</u>		
✓ 2533	Rocky Cape EL 1/77 Prospect and Grid Line Location Plan	1:100 000
✗ 2508	Rocky Cape EL 1/77 Stream Sediment Sample Location Plan	1:100 000
✗ 2497	Rocky Cape EL 1/77 Stream Sediment Log Element Distribution	1:100 000
✗ 2513	Rocky Cape EL 1/77 Stream Sediment Worm Diagram - Anomalous	1:100 000

Plan <u>TASH No</u>		<u>Scale</u>
X 2514	Rocky Cape EL 1/77 Stream Sediment Worm Diagram - Possibly Anomalous	1:100 000
X 2509	Rocky Cape EL 1/77 Panned Concentrates Sample Location Plan	1:100 000
Y 2498	Rocky Cape EL 1/77 Panned Concentrates Log Element Distribution	1:100 000
X 2515	Rocky Cape EL 1/77 Panned Concentrates Worm Diagram - Anomalous	1:100 000
X 2516	Rocky Cape EL 1/77 Panned Concentrates Worm Diagram - Possibly Anomalous	1:100 000
X 2510	Rocky Cape EL 1/77 Clay Fractions Sample Location Plan	1:100 000
X 2499	Rocky Cape EL 1/77 Clay Fractions Log Element Distribution	1:100 000
X 2517	Rocky Cape EL 1/77 Clay Fractions Worm Diagram - Anomalous	1:100 000
X 2518	Rocky Cape EL 1/77 Clay Fractions Worm Diagram - Possibly Anomalous	1:100 000
X 2511	Rocky Cape EL 1/77 Rock Chip Sample Location Plan	1:100 000
Y 2530	Rocky Cape EL 1/77 Sketch Map Doherty's Pimple Mine Workings	1:1 000 appro
Y 2531	Rocky Cape EL 1/77 Sketch Map Mine Workings NW of Mt Holloway	

029

229029

Plan
TASh No

Scale

X 1591 Rocky Cape EL 1/77 Alert Creek Sample Locations 1:10 000

X 1592 Rocky Cape EL 1/77 Alert Creek Pertinent Assay Results 1:10 000

? X 1532 Rocky Cape EL 1/77 Blackwater Rivulet Follow-up Sample Locations 1:2 000

X 2383 Rocky Cape EL 1/77 Frankland R. Prospect Geology 1:10 000

X 2376 Rocky Cape EL 1/77 Frankland R. Prospect Sample Locations 1:10 000

X 2378 Rocky Cape EL 1/77 Frankland R. Prospect Copper Geochemistry 1:10 000

X 2380 Rocky Cape EL 1/77 Frankland R. Prospect Lead Geochemistry 1:10 000

X 2382 Rocky Cape EL 1/77 Frankland R. Prospect Zinc Geochemistry 1:10 000

X 2379 Rocky Cape EL 1/77 Frankland R. Prospect Iron Geochemistry 1:10 000

X 2381 Rocky Cape EL 1/77 Frankland R. Prospect Manganese Geochemistry 1:10 000

X 2377 Rocky Cape EL 1/77 Frankland R. Prospect Arsenic Geochemistry 1:10 000

X 1660 Rocky Cape EL 1/77 Frankland R. Prospect Ground Magnetic Profiles Line 5000N As shown

030

229030

Plan	<u>TASH No</u>	<u>Scale</u>	
X	1661	Rocky Cape EL 1/77 Frankland R. Prospect Ground Magnetic Profiles Line 6500N	As shown
X	1662	Rocky Cape EL 1/77 Frankland R. Prospect Ground Magnetic Profiles Line 8000N	As shown
X	2301	Rocky Cape EL 1/77 Frankland R. Prospect Genie EM Profiles Line 5000N	1:10 000
X	2302	Rocky Cape EL 1/77 Frankland R. Prospect Genie EM Profiles Line 6500N	1:10 000
X	2303	Rocky Cape EL 1/77 Frankland R. Prospect Genie EM Profiles Line 8000N	1:10 000
X	2366	Rocky Cape EL 1/77 Salmon River Prospect Geology	1:5 000
X	2367	Rocky Cape EL 1/77 Salmon River Prospect Sample Locations	1:5 000
X	2368	Rocky Cape EL 1/77 Salmon River Prospect Copper Geochemistry	1:5 000
X	2369	Rocky Cape EL 1/77 Salmon River Prospect Lead Geochemistry	1:5 000
X	2370	Rocky Cape EL 1/77 Salmon River Prospect Zinc Geochemistry	1:5 000
X	2371	Rocky Cape EL 1/77 Salmon River Prospect Arsenic Geochemistry	1:5 000
X	2372	Rocky Cape EL 1/77 Salmon River Prospect Gold Geochemistry	1:5 000

031

229031

- 28 -

Plan TASh No		Scale
2373 X	Rocky Cape EL 1/77 Salmon River Prospect Tin Geochemistry	1:5 000
2374 X	Rocky Cape EL 1/77 Salmon River Prospect Tungsten Geochemistry	1:5 000
2297 X	Rocky Cape EL 1/77 Salmon River Prospect Genie Profiles Line 5125N	1:5 000
2298 X	Rocky Cape EL 1/77 Salmon River Prospect Genie Profiles Line 5250N	1:5 000
2299 X	Rocky Cape EL 1/77 Salmon River Prospect Genie Profiles Line 5350N	1:5 000
2300 X	Rocky Cape EL 1/77 Salmon River Prospect Genie Profiles Line 5450N	1:5 000
2415 X	Rocky Cape EL 1/77 Salmon River Prospect Ground Magnetic Profiles Line 5000N	1:5 000
2416 X	Rocky Cape EL 1/77 Salmon River Prospect Ground Magnetic Profiles Line 5125N	1:5 000
2417 X	Rocky Cape EL 1/77 Salmon River Prospect Ground Magnetic Profiles Line 5250N	1:5 000
2418 X	Rocky Cape EL 1/77 Salmon River Prospect Ground Magnetic Profiles Line 5350N	1:5 000
2419 X	Rocky Cape EL 1/77 Salmon River Prospect Ground Magnetic Profiles Line 5450N	1:5 000
2534 X	Rocky Cape EL 1/77 North Arthur Anomalies Geology and Grid Line Location Plan	1:50 000
2404 X	Rocky Cape EL 1/77 North Arthur Anomalies Red Anomaly Geological and Geochemical Profiles	1:5 000

032

229032

Plan <u>TASh No</u>		<u>Scale</u>
2420 X	Rocky Cape EL 1/77 North Arthur Anomalies Red Anomaly Ground Magnetic Profile	1:5 000
2290 X	Rocky Cape EL 1/77 North Arthur Anomalies Red Anomaly Genie Profiles	1:5 000
2405 X	Rocky Cape EL 1/77 North Arthur Anomalies White Anomaly Geological and Geochemical Profiles	1:5 000
2422 X	Rocky Cape EL 1/77 North Arthur Anomalies White Anomaly Ground Magnetics Profile	1:5 000
2292 X	Rocky Cape EL 1/77 North Arthur Anomalies White Anomaly Genie EM Profiles	1:5 000
2410 X	Rocky Cape EL 1/77 North Arthur Anomalies Ruby Anomaly Geological and Geochemical Profiles	1:5 000
2421 X	Rocky Cape EL 1/77 North Arthur Anomalies Ruby Anomaly Ground Magnetic Profiles	1:5 000
2291 X	Rocky Cape EL 1/77 North Arthur Anomalies Ruby Anomaly Genie EM Profiles	1:5 000
2407 X	Rocky Cape EL 1/77 North Arthur Anomalies Electric Blue Anomaly Geological and Geochemical Profiles	1:5 000
2424 X	Rocky Cape EL 1/77 North Arthur Anomalies Electric Blue Anomaly Ground Magnetic Profile	1:5 000
2294 X	Rocky Cape EL 1/77 North Arthur Anomalies Electric Blue Anomaly Genie EM Profiles	1:5 000

033

229033

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Plan <u>TASh No</u>		<u>Scale</u>
2408 X	Rocky Cape EL 1/77 North Arthur Anomalies Rose Blue Anomaly Geological and Geochemical Profiles	1:5 000
2425 X	Rocky Cape EL 1/77 North Arthur Anomalies Rose Blue Anomaly Ground Magnetic Profiles	1:5 000
2295 X	Rocky Cape EL 1/77 North Arthur Anomalies Rose Blue Anomaly Genie EM Profiles	1:5 000
2406 X	Rocky Cape EL 1/77 North Arthur Anomalies Green Anomaly Geological and Geochemical Profiles	1:5 000
2423 X	Rocky Cape EL 1/77 North Arthur Anomalies Green Anomaly Ground Magnetic Profile	1:5 000
2293 X	Rocky Cape EL 1/77 North Arthur Anomalies Green Anomaly Genie EM Profiles	1:5 000
2409 X	Rocky Cape EL 1/77 North Arthur Anomalies Wallaby Anomaly Geological and Geochemical Profiles	1:5 000
2426 X	Rocky Cape EL 1/77 North Arthur Anomalies Wallaby Anomaly Ground Magnetic Profiles	1:5 000
2296 X	Rocky Cape EL 1/77 North Arthur Anomalies Wallaby Anomaly Genie EM Profiles	1:5 000

17. LIST OF APPENDICES

- Appendix 1 Stream Sediment Sample Ledgers and Assay Results
- Appendix 2 Panned Concentrate Sample Ledgers and Assay Results
- Appendix 3 Clay Fraction Assay Results
- Appendix 4 Rock Chip Sample Ledgers and Assay Results
- Appendix 5 Alert Creek Area - Mineralogical Investigations and Assay Results
- Appendix 6 Blackwater Rivulet - Sample Ledgers and Assay Results
- Appendix 7 Memoranda from T Strokirch re Geophysical Investigations on Rocky Cape EL 1/77
- Appendix 8 Frankland River Prospect - Sample Ledgers and Assay Results
- Appendix 9 Salmon River Prospect - Sample Ledgers and Assay Results
- Appendix 10 North Arthur Anomalies - Petrological Reports
- Appendix 11 North Arthur Anomalies - Sample Ledgers and Assay Results

APPENDIX 1

STREAM SEDIMENT SAMPLE 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 l.

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 (N)

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

Staining - Major Fe (FEH), Minor Fe (FEL)
Major Mn (MNE), 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 Trees (T)
Cultivation (C), Arid grassland (A),
Desert (D).

ROCK TYPE CODE

Sediments - Clastic

Sedimentary	
Rock	SDRC
Conglomerate	CONG
Breccia	BREC
Grit	GRIT
Sandstone -	
Undiff	SEUD
Greywacke	GREY
Arkose	ARKS
Calcareous	CLAS
Siltstone	SILT
Shale	SHAL
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
Magnesite	MGST
Iron Formation ..	IRFM

Miscellaneous

Silcrete	SLRT
Calcrete	CLRT
Bauxite	BAUX
Ironstone	IRST
Laterite	LATR
Gossan	GOSS
Sulphides	SULP
Quart Vein	QTVN
Gresien	GRES
Fubarite	FUBR

Volcanics

Agglomerate	AGLM
Lapilli Tuff	LPTF
Ash Flow Tuff	AFTF
Ignimbrite	IGNM
Crystal Tuff	CRTP
Vitric Tuff	VTTF
Obsidian	OBSD
Mudflows	MUDF
Tuffaceous	
Sandstone	TFSS
Tuffaceous	
Shale	TFSH
Basic Volc.	
Undiff	BVUD
Basalt	BASL
Basic Lava	BSLV
Basic Pyroclast ..	BSPY
Interned Volc.	
Undiff	IVUD
Andesite	ANDS
Interned. Lava ..	INLV
Interned.	
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 -	
Coarse	MCCR
Metavolcanic	MTVL
Greenachist	CRSC
Schist Undiff	SCUD
Schist Mafic	SCHP
Schist Leuco	SCLC
Schist Amphibole ..	SCAM
Schist	SCST
Andalusite	SCAN
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 Felspar	
Mica	SCOM	Porphyry	OPPR
Schist		Granophyre	GRPH
Staurolite	SCST	Pegmatite	PEGM
Schist Talc	SCTL	Glass	GLAS
Amphibolite	AMPN		
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 ..	GMSL		
Gneiss			
Staurolite ...	GNST		
Granulite	GRLT		
Migmatite	MIGM		

Igneous - Intrusives

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

MINERALISATION/ALTERATION CODE

Veins	VEIN
Gossan	GOSN
Boxworks After Sulphides..	BOXW
Massive Sulphides	MSSL
Diagen. 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	FENG
Kaolinisation	KAOL
Potassic	POTS
Propylitisation	PROP
Pyritisation	PYRT
Saussurisation	SAUS
Sericitisation	SERC
Silicification	SILC
Talcose	TALC
Tourmalinisation	TOUR
Zeolitisation	ZEOL
Other	OTHR

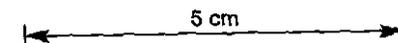
SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION						SITE DESCRIPTION							GEOLOGY				MIN/ALT	ORDER	LOOK	VEGETATION	GEOLOGICAL OBSERVATIONS	
	EAST	NORTH	ZONE	SAMPLE TYPE	GRAVEL %	SAND %	SILT %	CLAY %	ORG %	WIDTH	CATCHMENT	FLOW	BANKS	CHANNEL	STAINING	CONTR.	SITE	OUTCROP	FLOAT							MAJOR STRATA UNIT
																			MAJOR	MINOR						
1142801	328399	5430100	55	002-3	50	30	10	10		1.5	1.0	L	O/C	W			SB	CHER	SILT	SSUD				1	T	O/C 2 Float of silicified cherty black and cream silts
1142804	329349	5427600	55	002-3	40	40	10	10		.5	1.5	L	O/C	W	FEH		HB	QTZT	SILT	SSUD				1	O	O/C grey quartzites, fine grained
1142805	327399	5424799	55	002-3	50	20	20	10		5	13	M	O/C	D	N		SB		SILT	QTZT					O/T	
1142810	331951	5420650	55	002-3	50	20	20	10		5	4	M	O/C	D	FEH		BD	QTZT	SLS	QTZT				1	O	O/C quartzite and siltston
1142811	331899	5420550	55	002-3	60	25	10	5		2	2	M	O/C	D	FEH		BD	SILT	QTZT	SILT					O	
1142813	331049	5420100	55	002-3	60	20	10	10		15	30	M	O/C	D	FEL		BD	SILT	QTZT	SILT					O	
1142814	330198	5418800	55	002-3	60	30	5	5		10	13	M	OC	D	FEL		BD	SILT	QTZT	SILT					O	
1142815	329249	5419850	55	002-3	60	20	10	10		1	1	L	OC	W	FEL		SB	SILT	QTZT	SILT					O	Pyrite in v.qz ? O/C
1142816	327549	5418000	55	002-3	34	40	15	15		4	1	L	C	W	N		SB	SILT	QTZT	SILT					O	O/C 100m awry
1142818	332699	5420700	55	002-3	30	30	30	10		.5	1	L	C	W	N		R	SILT							O	
1142827	329800	5412099	55	002	60	20	10	10		2	1	F	OC	D	N		BD	SILT	QTZT	QTVN					O	
1142828	329749	5412100	55	002	70	20	5	5		3	4	F	OC	D	FEL		BD	SILT	QTZT	SILT					O	
1142833	331199	5409799	55	002	70	10	10	10		3	3	F	OC	D	FEL		BB	QTZT	QTZT	SILT					O	
1142834	331701	5406650	55	002	60	15	10	5		1.5	1	F	C	D	N		BB		QTZT	SILT					O	
1142835	331449	5405750	55	002	60	20	15	5		1.5	1	F	B	N	N		BD		QTZT	SILT					O	
1142836	332200	5404300	55	002	70	15	10	5		8	20	F	OC	W	N		BB	SILT	QTZT	SILT					O	
1142837	328748	5417200	55	002	70	20	5	5		6	40	F	OC	D	FEL		BB	QTZT	QTZT	SILT					R	
1142838	329199	5415500	55	002	70	20	5	5		1	1	S	B	W	N		BB	QTZT	SILT						O	
1142839	329049	5415650	55	002	50	25	15	10		3	2	F	OC	D	N		BD	QTZT	QTZT						O	Plunge Pool O/C qtzt ST190 D.5°N
1142840	326650	5413100	55	002	40	20	20	20		1	1	S	B	W	N		SB		QTZT	QTZT					R	
1142841	326700	5413100	55	002	50	20	20	10		3	2.5	F	B	D	N		SB		QTZT						R	
1142842	327000	5410799	55	002	50	25	20	5		.5	1	S	O/C	N	N		SB		QTZT						O	
1142843	324999	5414999	55	002	70	20	5	5		1.5	2	S	B	N	N		BD		QTZT						O	
1142844	324999	5415199	55	002	70	20	5	5		1.5	1	S	OC	W	N		BB	QTZT	QTZT						O	
1142845	329000	5407650	55	002	50	20	20	10		1.5	1.5	F	B	W	N		BD		QTZT						O	
1153051	332700	5402800	55	002	50	30	15	5		1.5	1.5	S	C	W	N		SB		QTZT	SILT					O	
1153052	332800	5403000	55	002	50	25	15	10		8	10	F	OC	D	FEL		BB	QTZT	QTZT	SILT				1	O	Also minor amph. float

PROJECT: ROCKY CAPE
TENEMENT: EL 1/77

INVESTIGATION: REGIONAL HELI SAMPLING

1:250 000 SHEET: BURNIE
DPO's: 30483

DATE: FEBRUARY 1984



039

CRA EXPLORATION PTY. LIMITED

STREAM SEDIMENT SAMPLE FIELD SHEET

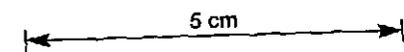
SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION							SITE DESCRIPTION							GEOLOGY			MIN/ALT	ORDER	LOOK	VEGETATION	GEOLOGICAL OBSERVATIONS		
	EAST	NORTH	ZONE	SAMPLE TYPE	GRAVEL %	SAND %	SILT %	CLAY %	ORG %	WIDTH	CATCHMENT	FLOW	BANKS	CHANNEL	STAINING	CONDM.	SITE	OUTCROP	FLOAT						SILT/CLAY INT	
																			MAJOR							MINOR
1153108	326324	5414399	55	-3mm	65	20	10	5		2	1	S	C	D			BD	QTZT	QTZT	QTVN	PEV				T	Site no 71 O/C & Fl: QTZT
1153109	326901	5412300	55	-3mm	45	40	10	5		1.5	0.5	S	C	D			BD	QTZT	QTZT		PEV				O	Site no 89 O/C & Fl: QTZT
1153110	327075	5412150	55	-3mm	55	35	5	5		2	1	S	C	D			BD	QTZT	QTZT		PEV				O	Site no 90 O/C & Fl: QTZT
1153111	329050	5405200	55	-3mm	35	50	10	5		3	1.5	S	C	W			BD	QTZT	QTZT		PEV				R	Site no 102 O/C & Fl: QTZT
1153125	331350	5385699	55	-3mm	70	20	5	5		15.0	14.0	S	C	W			HB	SCHC	GRAV	BLSH					R	Site 197 O/C green mica schist, Fl. same & quartz gravels & bl. shale
1153151	326900	5427900	55	-3mm	50	40	5	0	5	10	0.25	D	C	B	N	*	P		QTZT	QTVN				N	O	*Road crosses stream 500m upstream
1153152	325298	5428200	55		0	10	40	40	10	50	1.5	D	B	N	N	N	P							N	O	NB to be collected - from bulk sample for Pan Con as creek is dry sample no. 1153452
1153153	325399	5428200	55		15	75	2.5	2.5	5	3	1.0	D	C	W	N	N	M	SILT	SILT	QTZT				N	O	As above, sample no 1153453
1153154	327099	5423400	55	-3mm	20	75	2.5	2.4	0.3	2	3.5	P	B	W	N	N	M	SLAT	SLAT	QTZT				N	O	
1153155	327250	5423400	55	-3mm	50	40	3.3	3.3	3.3	2	3.0	P	B	W	N	N	M	SILT	SILT	QTZT				N	O	
1153156	325049	5419300	55	-3mm	40	50	2.5	2.5	5	1	0.3	P	B	W	N	N	M	QTZT	QTZT	QTVN				N	O	NB To be collected from bul
1153157	325048	5419100	55	-3mm	30	50	5	5	10	1	0.5	D	B	N	N	N	M		QTZT					N	O	
1153158	324899	5418000	55	-3mm	0	10	85	2.5	2.5	2	1.0	D	B	W	N	N	P		QTZT					N	O	
1153159	325099	5416900	55	-3mm	50	40	9	0.5	0.5	2	1.0	S	B	W	N	N	G		QTZT	QTVN				N	T	
1153160	326350	5415750	55	-3mm	80	15	2.5	2.5	0	4	1.0	S	B	W	N	N	G		QTZT	QTVN				N	T	
1153161	326299	5415600	55	-3mm	90	9	0.3	0.3	0.3	5	1.0	S	C	D	N	N	M		QTZT	SLAT				N	O	
1153162	327899	5421300	55	-3mm	80	10	3.3	3.3	3.3	0.5	0.5	S	B	W	N	N	G	SILT	QTZT	SILT		DSSL		N	O	*Banks are bedrock o'lain by alluvium
1153163	331300	5418500	55	-3mm	85	14	0.3	0.3	0.3	8	27.0	S	*	W		N	G		QTZT					N	O	*Banks are bedrock
1153164	331299	5418200	55	-3mm	70	29	0.3	0.3	0.3	5	11.0	S	*	W		N	P	SILT	QTZT					N	T	*Banks are bedrock o'lain by alluvium-colluvium
1153165	329650	5418150	55	-3mm	5	93	0.6	0.6	0.6	15	0.4	S	*	W		N	G	SILT	SILT	QTZT				N	T	
1153166	330999	5417200	55	-3mm	5	90	1.6	1.6	1.6	2	0.25	P	B	D		N	G		QTZT					N	O	*Banks are bedrock only
1153167	331148	5417200	55	-3mm	80	19	0.3	0.3	0.3	15	14	S	*	D		N	M	QTZT	QTZT					N	O	
1153170	332699	5419100	55	-3mm	60	30	3	3	3	5	3	P	B	W		N	G		SILT					N	O	
1153171	331500	5416199	55	-3mm	60	30	3	3	3	1	0.5	S	B	W		N	G	SILT	SILT					N	O	Outcrop is quartz rich pyjama siltstone

PROJECT: ROCKY CAPE
TENEMENT: EL 1/77

INVESTIGATION: REGIONAL HELI SAMPLING

1:250 000 SHEET: BURNIE
DPO's: 30483

DATE: FEBRUARY 1984



0390622

CRA EXPLORATION PTY. LIMITED

STREAM SEDIMENT SAMPLE FIELD SHEET

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION						SITE DESCRIPTION							GEOLOGY				GEOLOGICAL OBSERVATIONS				
	EAST	NORTH	ZONE	SAMPLE TYPE	GRAVEL %	SAND %	SILT %	CLAY %	ORG %	WIDTH	CATCHMENT	FLOW	BANKS	CHANNEL	STAINING	CONTAM.	SITE	OUTCROP	FLOAT			MIN/ALT	ORDER	LOOK	VEGETATION
																			MAJOR	MINOR					
1153180	329800	5414400	55	-3mm	2	93	1.6	1.6	1.6	1	1	S	B	W	N	G		QTZT	QTVN						
1153181	329900	5414550	55	-3mm	70	25	1.6	1.6	1.6	1.5	1	S	B	W	N	M		QTZT	QTVN						
1153184	330749	5410500	55	-3mm	80	19	0.3	0.3	0.3	2	8	S	B	W	N	M		QTZT	QTVN						NB Site is down stream from site 104-105 Creek's junction
1153185	331249	5409450	55	-3mm	70	25	1.6	1.6	1.6	0.5	0.25	S	B	W	N	M		QTZT							
1153186	330749	5410050	55	-3mm	30	65	1.6	1.6	1.6	1.0	0.3	S	B	W	N	G		QTZT	SILT						
1153187	329299	5417500	55	-3mm	90	5	1.6	1.6	1.6	3	.75	S	B	D	N	G		QTZT	SILT						
1153189	325050	5412700	55	-3mm	80	19	0.3	0.3	0.3	2	3.5	S	B	D	N	M		QTZT	QTVN						
1153190	326200	5411100	55	-3mm	80	18	0.6	0.6	0.6	0.5	1.0	S	A	W	N	G		QTZT	QTVN						
1153191	328100	5410250	55	-3mm	90	9	0.3	0.3	0.3	4	.75	P	B	D	N	M		QTZT	QTVN						
1153192	328899	5407849	55	-3mm	90	9	0.3	0.3	0.3	3	2.0	S	A	W	N	G		QTZT	QTVN						
1153193	328000	5410500	55	-3mm	75	24	0.3	0.3	0.3	4	2.7	S	C	D	N	G		QTZT	QTVN						
1153203	331399	5387550	55	-3mm	0	80	15	3	2	0.3	0.3	D	B	N	N	P		SILT							
1153204	331948	5388150	55	-3mm	5	94	0.3	0.3	0.3	2	1.5	D	A	N	N	P									
1153205	331899	5388199	55	-3mm	5	94	0.3	0.3	0.3	10	0.25	D	C	N	N	P		SILT	QTVN						Com grey silts St305° dip 45°S
1153226	328500	5429900	55	-3	40	50	5	5		3	1.5	S	C	W	FEL	N	SB	SILT	SILT	QTVN					
1153227	328575	5426050	55	-3	60	15	5	5	15	.75	5	P	C	D	N	N	BD	SILT	QTVN						Pyjama silt/st (bl/white)
1153228	328649	5425849	55	-3	30	60	3	2	5	5	25	S	C	W	FEH	N	BB	SILT	QTVN		TOUR	Y			Poss. pyrrhotite (2%)
1153230	327024	5424975	55	-3	5	10	35	35	15	2	5	S	C	D	FEH	N	BB	SILT	QTVN		DSSL	Y			10%pyrrhotite, minor quartzite float
1153231	326999	5425225	55	-3	5	80	5	5	5	4	5	P	C	D	N	N	BD	SLAT	QTVN						R Black slates with graphite
1153232	327150	5425250	55	-3	15	70	5	5	5	7	3	P	C	N	N	N	BD	SLAT	SSUD						T Fine lam b/w siltst.
1153233	327824	5425050	55	-3	50	30	10	5	5	1	3	P	C	D	FEL	N	HB	SILT	QTVN						
1153238	330999	5420100	55	-3	30	40	20	5	5	2	3	S	C	W	N	PO	V	SILT	QTVN						O Minor Mn staining
1153239	330275	5418975	55	-3	60	20	10	10		3	2	F	G	D	FEH	N	HB	SILT	QTVN						
1153240	329124	5419675	55	-3	50	35	10	5		2	3	F	C	W	FEH	N	SB	QTVN	SILT						
1153241	327624	5418200	55	-3	45	40	10	5		4	2	F	C	W	FEH	N	T	SILT	QTVN						
1153243	332650	5420500	55	-3	40	40	15	5		2	5	S	C	D	FEH	N	HB	SSUD	QTVN						O Pyrite, Heavy min banded s/s
1153253	328999	5414675	55	-3	60	35	3	2		3	3	F	C	W	FEL	N	BD	QTVN	SILT						O HM DSSL & Silt/s Frags in quartzite

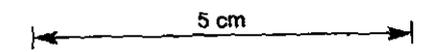
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PROJECT: ROCKY CAPE
TENEMENT: EL 1/77

INVESTIGATION: REGIONAL HELI SAMPLING

1:250 000 SHEET: BURNIE
DPO's: 30483

DATE: FEBRUARY 1984



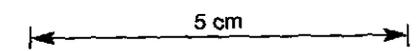
SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION						SITE DESCRIPTION							GEOLOGY			GEOLOGICAL OBSERVATIONS					
	EAST	NORTH	ZONE	SAMPLE TYPE	GRAVEL %	SAND %	SILT %	CLAY %	ORG %	WIDTH	CATCHMENT	FLOW	BANKS	CHANNEL	STAINING	CONTRAM.	SITE	OUTCROP	FLOAT		MIN/ALT	ORDER	LOOK	VEGETATION	
																			MAJOR	MINOR					
1153254	328899	5414675	55	-3	40	40	10	5	5	1		F	O/C	W	FEL	N	BD	SILT	QTZT	QTVN			N	O	SILT/QTZT interbeds "pyjama" rock
1153257	330649	5413540	55	-3	10	30	40	15	5	1.5	2	S	A	N	N	N	V		QTZT	QTVN			N	O	Massive quartzite
1153258	331099	5410300	55	-3	60	30	5	5		2	2	F	O/C	W	FEH	N	BB	SILT	QTZT	QTVN			N	O	Lam Silt with QTZT interbeds
1153259	331349	5407520	55	-3	60	35	3	2		7	20	F	O/C	W	N	N	BB	SILT	QTZT	QTVN			N	O	"Pyjama" siltstones
1153260	331573	5407460	55	-3	5	30	55	5	5	3	1	S	C	N	N	N	V		QTZT	QTVN			N	O	Massive quartzite
1153261	331860	5404550	55	-3	40	40	10	5	5	0.5	1	F	C	D	N	N	BD		QTZT	QTVN			N	O	Massive quartzite & HM Bands
1153262	327960	5417650	55	-3	40	40	10	10		3	2	P	C	N	N	N	V		QTZT	QTVN			N	O	Massive quartzite
1153263	329548	5416074	55	-3	60	30	5	5		7	10	F	O/C	W	N	N	BD	QTZT	QTVN	SILT			N	R	Bedded quartzite
1153264	329725	5416074	55	-3	50	40	5	5		2	1	F	C	W	FEL	N	BD		SILT	QTZT			N	R	Laminated silts dominate
1153265	328824	5413350	55	-3	30	20	40	10		3	1	F	C	D	FEL	N	BD	QTZT	QTVN			N	O	Massive quartzite	
1153266	325138	5411774	55	-3	60	30	5	5		2	4	F	C	D	N	N	BD		QTZT	QTVN			N	O	Massive quartzite
1153267	327110	5409799	55	-3	60	35	3	2		3	5	F	O/C	W	N	N	BB	QTZT	QTZT	QTVN			N	O	Massive qtzt with HM
1153268	327849	5409210	55	-3	20	30	40	5	5	1	2	S	C	N	N	N	V		QTZT	QTVN			N	O	Massive quartzite
1153269	327859	5408999	55	-3	70	20	5	5		1	2	F	C	D	N	N	BD		QTZT	QTVN			N	O	Massive quartzite
1153271	329060	5406350	55	-3	60	30	5	5	0	4	4	F	O/C	D	FEL	N	BD	QTZT	QTZT	QTVN			N	O	Massive quartzite
1153276	331830	5403140	55	-3	5	20	50	20	5	1	1	S	C	N	N	N	SB		QTZT	QTVN			N	O	Massive quartzite
1153277	331699	5402200	55	-3	0	5	55	20	20	4	3	S	A	N	N	N	SB						N	O	Massive quartzite
1153278	331800	5402000	55	-3	0	10	40	10	40	1	1	F	A	N	FEL	N	SB		QTZT	QTVN			N	O	Massive gn/gy qtzt float
1153279	331740	5401660	55	-3	30	30	20	5	15	0.5	1	S	C	N	N	N	SB		QTZT	QTVN			N	O	Massive wh qtzt abundant qtz veins
1153281	331299	5386000	55	-3	40	35	20	5		4.0	6.0	S	C	W			BB	SCMC	SCMC	QTVN			R		Site 196 O/C green mica schists, Fl Same & Qtv vein
1153282	332400	5382699	55	-3	50	35	10	5		4.0	4.0	S	C	W			SB	QTZT	QTZT	GRAV			R		Site 202, O/C meta quartzite
1153283	332400	5382849	55	-3	50	35	10	5		4.0	1.5	S	C	W			SB		MSFN	GRAV					Site 201 No O/C Fl:meta slts

PROJECT: ROCKY CAPE
TENEMENT: EL 1/77

INVESTIGATION: REGIONAL HELI SAMPLING

1:250 000 SHEET: BURWIE
DPO's: 30483

DATE: FEBRUARY 1984



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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 -801SS

THE FOLLOWING VARIABLES ARE IN THE DATA SET:

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

229042

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

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

NUMBER OF RECORDS WRITTEN IS : 125
RECORD LENGTH IS : 21

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MO
25646 1142801	328399	5430100	55	2	5	10	15	2	-	1	5
1142804	329349	5427600	55	2	10	270	10	2	-	0.5	5
1142805	327399	5424799	55	2	5	155	20	2	-	0.5	10
1142810	331951	5420650	55	10	15	60	25	2	-	0.5	10
1142811	331899	5420550	55	5	10	20	20	2	-	0.5	10
1142813	331049	5420100	55	2	5	55	20	2	-	0.5	15
1142814	330198	5418800	55	2	5	15	30	2	-	0.5	5
1142815	329249	5419850	55	5	10	10	5	2	-	0.5	5
1142816	327549	5418000	55	2	5	2	15	2	-	0.5	5
1142818	332699	5420700	55	5	20	910	15	2	-	1	10
1142827	329800	5412099	55	2	5	10	15	2	-	0.5	5
1142828	329749	5412100	55	10	15	1700	10	2	-	0.5	5
1142833	331199	5409799	55	2	10	10	2	2	-	0.5	5
25646 1142834	331701	5406650	55	2	5	2	5	2	-	1	5
25600 1142835	331449	5405750	55	2	5	1	2	2	-	0.5	5
1142836	332200	5404300	55	2	5	1	2	2	-	0.5	5
1142837	328748	5417200	55	2	5	1	2	2	-	0.5	5
1142838	329199	5415500	55	2	5	1	2	2	-	0.5	5
1142839	329049	5415650	55	2	5	1	5	2	-	0.5	5
1142840	326650	5413100	55	2	10	15	5	2	-	0.5	5
1142841	326700	5413100	55	2	5	2	2	2	-	0.5	10
1142842	327000	5410799	55	2	5	2	15	2	-	0.5	10
1142843	324999	5414999	55	2	5	1	10	2	-	0.5	5
1142844	324999	5415199	55	2	5	1	10	2	-	0.5	5
1142845	329000	5407650	55	2	5	2	10	2	-	0.5	10
1153051	332700	5402800	55	2	20	20	20	2	-	0.5	10
1153052	332800	5403000	55	2	5	5	15	2	-	0.5	5
1153054	332801	5402850	55	2	5	5	15	2	-	0.5	10
1153055	331499	5402400	55	2	20	20	20	2	-	0.5	5
1153056	331498	5402499	55	2	115	115	15	2	-	0.5	5
1153057	332750	5401950	55	2	5	2	10	2	-	0.5	5
1153063	330500	5387500	55	2	25	25	10	2	-	0.5	5
1153064	330449	5387499	55	2	5	5	5	2	-	0.5	5
1153065	334650	5382350	55	2	15	15	15	2	-	0.5	10
1153076	326699	5428800	55	10	30	30	15	2	-	0.5	10
1153081	324598	5420600	55	2	2	2	10	2	-	0.5	10
1153082	324799	5420500	55	2	10	10	15	2	-	0.5	10
1153083	324799	5420550	55	2	2	2	15	2	-	0.5	10
1153084	325099	5415999	55	2	5	2	10	2	-	0.5	5
1153085	327799	5421200	55	2	10	10	10	2	-	0.5	5
1153086	331800	5418300	55	2	10	15	10	2	-	0.5	5
1153087	329199	5418600	55	2	5	10	10	2	-	0.5	10
1153088	329498	5418200	55	2	5	5	15	2	-	0.5	5
1153099	329400	5419500	55	2	15	15	10	2	-	0.5	5
1153090	331199	5416550	55	2	30	30	5	2	-	0.5	5
1153093	332299	5417400	55	5	10	10	15	2	-	0.5	5
1153101	329299	5414200	55	2	5	5	5	2	-	0.5	5
1153103	330949	5409249	55	2	5	2	5	2	-	0.5	5
1153104	330949	5409550	55	2	15	15	50	2	-	0.5	5
1153105	332250	5406150	55	2	2	2	2	2	-	0.5	5
1153104	330749	5409900	55	2	1	5	2	2	-	0.5	5
1153107	329099	5416349	55	2	15	15	2	2	-	0.5	5
1153108	326324	5414399	55	2	2	2	2	2	-	0.5	5
1153109	326901	5412300	55	2	5	5	2	2	-	0.5	5
1153110	327075	5412150	55	2	5	2	2	2	-	0.5	5
1153111	329050	5405200	55	2	5	2	2	2	-	0.5	5
1153125	331350	5385699	55	10	20	640	15	2	-	0.5	5
1153151	326900	5427900	55	5	10	430	5	2	-	0.5	10
1153152	325298	5428200	55	2	5	195	5	2	-	0.5	5
1153153	325399	5428200	55	5	10	20	5	2	-	0.5	5

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CB	CR	AG	MO
1153154	327099	5423400	55	2	5	5	5	2	-	0.5	10
1153155	327250	5423400	55	5	10	20	5	2	-	1	5
1153156	325049	5419300	55	2	5	2	5	2	-	0.5	10
1153157	325048	5419100	55	2	5	175	2	2	-	0.5	5
1153158	324899	5418000	55	2	5	30	5	2	-	0.5	15
1153159	325099	5416900	55	5	5	15	5	2	-	0.5	5
1153160	326350	5415750	55	2	5	20	5	2	-	0.5	15
1153161	326299	5415600	55	2	5	15	5	2	-	0.5	5
1153162	327899	5421300	55	2	5	15	5	2	-	1	15
1153163	331300	5418500	55	2	5	15	5	2	-	0.5	5
1153164	331299	5418200	55	5	10	40	10	2	-	0.5	15
1153165	329650	5418150	55	2	5	2	5	2	-	0.5	5
1153166	330999	5417200	55	2	10	5	10	2	-	0.5	15
1153167	331148	5417200	55	2	10	5	10	2	-	0.5	5
1153170	332699	5419100	55	5	10	25	10	2	-	0.5	5
1153171	331500	5416199	55	2	10	20	5	2	-	1	5
1153180	329800	5414400	55	2	10	45	5	2	-	0.5	5
1153181	329900	5414550	55	2	5	10	5	2	-	0.5	2.5
1153184	330749	5410500	55	2	5	15	10	2	-	0.5	5
1153185	331249	5409450	55	2	5	15	10	2	-	0.5	5
1153186	330749	5410050	55	2	5	15	5	2	-	0.5	5
1153187	329299	5417500	55	2	5	10	20	2	-	0.5	10
1153189	325050	5412700	55	2	5	10	15	2	-	0.5	5
1153190	326200	5411100	55	2	5	5	10	2	-	0.5	5
1153191	328100	5410250	55	2	5	2	15	2	-	0.5	5
1153192	328899	5407849	55	2	5	10	5	2	-	0.5	5
1153193	328000	5410500	55	2	10	25	20	2	-	0.5	10
1153203	331399	5387550	55	2	5	590	25	2	-	0.5	10
1153204	331948	5388150	55	2	20	80	10	2	-	0.5	5
1153205	331899	5388199	55	2	20	80	10	2	-	0.5	10
1153226	328500	5429900	55	2	10	15	15	2	-	0.5	5
1153227	328575	5426050	55	15	10	50	10	2	-	0.5	5
1153228	328649	5425849	55	5	10	30	25	2	-	0.5	5
1153230	327024	5424975	55	5	15	540	10	2	-	0.5	10
1153231	326999	5425225	55	5	10	15	30	2	-	1	10
1153232	327150	5425250	55	10	5	15	25	2	-	0.5	10
1153233	327824	5425050	55	5	15	1000	10	2	-	0.5	5
1153238	330999	5420100	55	2	5	1	15	2	-	0.5	10
1153239	330275	5418975	55	2	10	2	10	2	-	0.5	5
1153240	329124	5419675	55	5	10	2	20	2	-	0.5	5
1153241	327624	5418200	55	5	5	1	5	2	-	0.5	5
1153243	332650	5420500	55	5	10	15	10	2	-	0.5	5
1153253	328999	5414675	55	2	5	10	25	2	-	0.5	10
1153254	328899	5414675	55	2	5	1	5	2	-	0.5	5
1153257	330649	5413540	55	2	5	1	15	2	-	0.5	5
1153258	331099	5410300	55	2	10	10	10	2	-	0.5	5
1153259	331349	5407520	55	2	5	2	25	2	-	0.5	10
1153260	331573	5407460	55	5	5	2	5	2	-	0.5	5
1153261	331860	5404550	55	1	5	1	10	2	-	0.5	5
1153262	327960	5417650	55	2	5	5	5	2	-	0.5	10
1153263	329548	5416074	55	2	5	1	25	2	-	0.5	5
1153264	329725	5416074	55	2	5	1	5	2	-	0.5	5
1153265	328824	5413350	55	2	5	1	20	2	-	0.5	5
1153266	325138	5411774	55	2	5	1	5	2	-	0.5	10
1153267	327110	5409799	55	2	5	1	15	2	-	0.5	5
1153268	327849	5409210	55	2	5	1	5	2	-	0.5	5
1153269	327859	5408999	55	2	5	2	5	2	-	0.5	10
1153271	329060	5406350	55	10	5	15	10	2	-	0.5	10
1153276	331830	5403140	55	2	5	2	5	2	-	0.5	2.5
1153277	331699	5402200	55	2	5	2	5	2	-	0.5	5

045

229045

046

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MO
1153278	331800	5402000	55	2	5	1	5	2	-	0.5	2.5
1153279	331740	5401660	55	2	5	2	10	2	-	0.5	10
1153281	331299	5386000	55	2	15	5	10	5	-	0.5	5
1153282	332400	5382699	55	2	5	30	20	10	-	0.5	5
25770 1153283	332400	5382849	55	2	5	20	20	10	-	0.5	10

229046

SAMPLE NO.	FEZ	MN	AS	SN	W	BA	AU(B)	AUP
1142801	0.46	55	1	2.5	10	560	-	-
1142804	0.48	30	5	2.5	10	130	-	-
1142805	0.49	35	1	2.5	10	80	-	-
1142810	3.16	240	10	5	20	320	-	-
1142811	0.98	75	3	2.5	10	140	-	-
1142813	0.63	65	1	2.5	10	110	-	-
1142814	0.82	60	2	2.5	20	120	-	-
1142815	0.93	85	5	2.5	50	130	-	-
1142816	0.32	30	0.5	2.5	10	70	-	-
1142818	3.69	50	10	2.5	10	450	-	-
1142827	0.31	25	0.5	2.5	10	80	-	-
1142828	0.44	65	2	2.5	5	100	-	-
1142833	0.6	105	1	2.5	20	110	-	-
1142834	0.31	25	0.5	2.5	30	50	-	-
1142835	0.32	30	1	2.5	30	40	-	-
1142836	0.24	25	0.5	2.5	20	50	-	-
1142837	0.31	35	0.5	2.5	20	110	-	-
1142838	0.38	55	1	2.5	20	110	-	-
1142839	0.39	35	0.5	2.5	40	40	-	-
1142840	0.28	25	1	2.5	30	70	-	-
1142841	0.22	20	0.5	2.5	20	70	-	-
1142842	0.3	15	0.5	2.5	5	40	-	-
1142843	0.28	15	0.5	2.5	10	70	-	-
1142844	0.25	10	0.5	2.5	5	10	-	-
1142845	0.22	10	0.5	2.5	10	80	-	-
1153051	0.42	25	1	2.5	10	30	-	-
1153052	0.3	20	0.5	2.5	10	40	-	-
1153054	0.29	15	0.5	2.5	5	40	-	-
1153055	0.44	45	0.5	2.5	10	50	-	-
1153056	0.43	35	1	2.5	5	50	-	-
1153057	0.26	15	0.5	2.5	10	50	-	-
1153063	1.25	100	1	210	10	320	-	-
1153064	0.27	25	0.5	35	20	100	-	-
1153065	0.42	35	0.5	360	20	50	-	-
1153076	1.08	125	7	2.5	10	220	-	-
1153081	0.29	15	0.5	2.5	10	20	-	-
1153082	0.32	20	1	2.5	10	30	-	-
1153083	0.35	20	0.5	2.5	10	20	-	-
1153084	0.3	15	1	2.5	5	50	-	-
1153085	1	30	6	2.5	10	190	-	-
1153086	0.99	100	2	2.5	10	220	-	-
1153087	0.36	35	1	2.5	10	90	-	-
1153088	0.5	40	1	2.5	10	120	-	-
1153089	1.05	60	5	2.5	10	220	-	-
1153090	0.29	25	1	2.5	5	90	-	-
1153093	0.88	110	2	2.5	10	140	-	-
1153101	0.26	35	1	2.5	10	90	-	-
1153103	0.22	20	1	2.5	5	70	-	-
1153104	1.25	75	2	2.5	10	60	-	-
1153105	0.13	15	1	2.5	5	50	-	-
1153106	0.16	20	0.5	2.5	10	130	-	-
1153107	0.29	25	1	2.5	10	140	-	-
1153108	0.23	20	1	2.5	10	120	-	-
1153109	0.19	15	0.5	2.5	10	50	-	-
1153110	0.15	15	0.5	2.5	10	110	-	-
1153111	0.19	15	0.5	2.5	10	50	-	-
1153125	0.96	80	8	90	70	60	-	-
1153151	0.49	45	3	2.5	50	40	-	-
1153152	0.58	40	2	2.5	20	100	-	-
1153153	0.46	45	5	5	50	50	-	-

SAMPLE NO.	FEZ	MN	AS	SN	W	BA	AU(B)	AUP
1153154	0.44	40	0.5	2.5	40	50	-	-
1153155	0.62	45	1	2.5	70	140	-	-
1153156	0.38	30	0.5	2.5	40	20	-	-
1153157	0.37	30	0.5	2.5	50	30	-	-
1153158	0.55	30	1	2.5	40	20	-	-
1153159	0.51	45	0.5	2.5	70	20	-	-
1153160	0.46	35	0.5	2.5	40	10	-	-
1153161	0.38	30	0.5	2.5	50	10	-	-
1153162	0.83	55	1	2.5	40	20	-	-
1153163	0.53	45	0.5	2.5	50	20	-	-
1153164	0.73	50	2	2.5	50	60	-	-
1153165	0.5	95	1	2.5	40	40	-	-
1153166	0.48	35	1	2.5	40	270	-	-
1153167	0.66	60	4	2.5	60	80	-	-
1153170	0.48	30	0.5	2.5	30	70	-	-
1153171	0.73	30	4	2.5	30	260	-	-
1153180	1.75	140	2	2.5	20	160	-	-
1153181	0.28	25	0.5	2.5	30	30	-	-
1153184	0.38	40	0.5	2.5	30	50	-	-
1153185	0.42	35	2	2.5	60	10	-	-
1153186	0.26	25	1	2.5	20	60	-	-
1153187	0.48	45	1	2.5	10	40	-	-
1153189	0.28	15	0.5	2.5	5	50	-	-
1153190	0.2	15	0.5	2.5	10	30	-	-
1153191	0.31	15	0.5	2.5	10	110	-	-
1153192	0.19	15	1	2.5	10	120	-	-
1153193	0.38	25	3	2.5	10	50	-	-
1153203	0.46	30	1	10	60	590	-	-
1153204	0.65	130	1	590	40	140	-	-
1153205	0.62	45	2	230	20	120	-	-
1153226	0.38	25	1	2.5	10	110	-	-
1153227	0.84	70	4	2.5	30	260	-	-
1153228	0.59	35	1	2.5	20	130	-	-
1153230	0.64	35	8	2.5	30	160	-	-
1153231	0.89	80	3	2.5	20	160	-	-
1153232	0.5	25	2	2.5	20	160	-	-
1153233	0.86	50	3	2.5	10	170	-	-
1153238	0.32	15	1	2.5	10	70	-	-
1153239	0.66	55	2	2.5	20	160	-	-
1153240	0.42	30	1	2.5	10	80	-	-
1153241	0.3	35	0.5	2.5	10	70	-	-
1153243	2.16	90	4	2.5	20	410	-	-
1153253	0.55	40	0.5	2.5	10	70	-	-
1153254	0.25	35	0.5	2.5	10	50	-	-
1153257	0.26	15	0.5	2.5	10	50	-	-
1153258	0.7	75	1	2.5	20	170	-	-
1153259	0.57	50	1	2.5	10	60	-	-
1153260	0.23	25	0.5	2.5	10	20	-	-
1153261	0.3	40	0.5	2.5	10	40	-	-
1153262	0.27	20	1	2.5	10	180	-	-
1153263	0.63	40	1	2.5	20	90	-	-
1153264	0.37	25	3	2.5	20	130	-	-
1153265	0.29	15	0.5	2.5	10	40	-	-
1153266	0.29	20	0.5	2.5	20	60	-	-
1153267	0.3	15	0.5	2.5	10	90	-	-
1153268	0.17	10	0.5	2.5	20	50	-	-
1153269	0.33	15	0.5	2.5	10	110	-	-
1153271	0.38	30	0.5	2.5	30	40	-	-
1153276	0.3	40	0.5	2.5	30	30	-	-
1153277	0.25	20	0.5	2.5	20	20	-	-

SAMPLE NO.	FEZ	NN	AS	SN	W	BA	AU(B)	AUP
1153278	0.23	25	0.5	2.5	20	50	-	-
1153279	0.55	30	1	2.5	30	100	-	-
1153281	0.57	80	2	20	50	110	-	-
1153282	0.71	75	0.5	3600	80	10	-	-
1153283	0.53	55	0.5	730	50	20	-	-

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

049

229049

050

229050

APPENDIX 2

PANNED CONCENTRATE SAMPLE LEDGERS AND ASSAY RESULTS

051

229051

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
1153376	1153001	328399	5430100	1142801
1153379	1153004	329349	5427600	1142804
1153380	1153005	327399	5424799	1142805
1153385	1153010	331951	5420650	1142810
1153386	1153011	331899	5420550	1142811
1153388	1153013	331049	5420100	1142813
1153389	1153014	330198	5418800	1142814
1153390	1153015	329249	5419850	1142815
1153391	1153016	327549	5418000	1142816
1153393	1153018	332699	5420700	1142818
1153402	1153027	329800	5412099	1142827
1153403	1153028	329749	5412100	1142828
1153408	1153033	331199	5409799	1142833
1153409	1153034	331701	5406650	1142834
1153410	1153035	331449	5405750	1142835
1153411	1153036	332200	5404300	1142836
1153412	1153037	328748	5417200	1142837
1153413	1153038	329199	5415500	1142838
1153414	1153039	329049	5415650	1142839
1153415	1153040	326650	5413100	1142840
1153416	1153041	326700	5413100	1142841
1153417	1153042	327000	5410799	1142842
1153418	1153043	324999	5414999	1142843
1153419	1153044	324999	5415199	1142844
1153420	1153045	329000	5407650	1142845
1153601	1153526	328500	5429900	1153226
1153602	1153527	328575	5426050	1153227
1153603	1153528	328649	5425849	1153228
1153605	1153530	327024	5424975	1153230
1153606	1153531	326999	5425225	1153231

Project: ROCKY CAPE

Tenement: EL 1/77

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
1153607	1153532	327150	5425250	1153232
1153608	1153533	327824	5425050	1153233
1153613	1153538	330999	5420100	1153238
1153614	1153539	330275	5418975	1153239
1153615	1153540	329124	5419675	1153240
1153616	1153541	327624	5418200	1153241
1153618	1153543	332650	5420500	1153243
1153628	1153553	328999	5414675	1153253
1153629	1153554	328899	5414675	1153254
1153632	1153557	330649	5413540	1153257
1153633	1153558	331099	5410300	1153258
1153634	1153559	331349	5407520	1153259
1153635	1153560	331573	5407460	1153260
1153636	1153561	331860	5404550	1153261
1153637	1153562	327960	5417650	1153262
1153638	1153563	329548	5416074	1153263
1153639	1153564	329725	5416074	1153264
1153640	1153565	328824	5413350	1153265
1153641	1153566	325138	5411774	1153266
1153642	1153567	327110	5409799	1153267
1153643	1153568	327849	5409210	1153268
1153644	1153569	327859	5418999	1153269
1153646	1153571	329060	5406350	1153271
1153651	1153576	331830	5403140	1153276
1153652	1153577	331699	5402200	1153277
1153653	1153578	331800	5402000	1153278
1153654	1153579	331740	5401660	1153279
1153656	1153581	331299	5386000	1153281
1153657	1153582	332400	5382699	1153282
1153658	1153583	332400	5382849	1153283

Project: ROCKY CAPETenement: EL 1/77

Clay Fraction DPO: 30484

Panned Concentrate DPO: 30486

053

229053

-3-

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
1153676	1153451	326900	5427900	1153151
1153677	1153452	325298	5428200	1153152
1153678	1153453	325399	5428200	1153153
1153679	1153454	327099	5423400	1153154
1153680	1153455	327250	5423400	1153155
1153681	1153456	325049	5419300	1153156
1153682	1153457	325048	5419100	1153157
1153683	1153458	324899	5418000	1153158
1153684	1153459	325099	5416900	1153159
1153685	1153460	326350	5415750	1153160
1153686	1153461	326299	5415600	1153161
1153687	1153462	327899	5421300	1153162
1153688	1153463	331300	5418500	1153163
1153689	1153464	331299	5418200	1153164
1153690	1153465	329650	5418150	1153165
1153691	1153466	330999	5417200	1153166
1153692	1153467	331148	5417200	1153167
1153695	1153470	332699	5419100	1153170
1153696	1153471	331500	5416199	1153171
1153705	1153480	329800	5414400	1153180
1153706	1153481	329900	5414550	1153181
1153709	1153484	330749	5410500	1153184
1153710	1153485	331249	5409450	1153185
1153711	1153486	330749	5410050	1153186
1153712	1153487	329299	5417500	1153187
1153714	1153489	325050	5412700	1153189
1153715	1153490	326200	5411100	1153190
1153716	1153491	328100	5410250	1153191
1153717	1153492	328899	5407849	1153192
1153718	1153493	328000	5410500	1153193

Project: ROCKY CAPETenement: EL 1/77

Clay Fraction DPO: 30484

Panned Concentrate DPO: 30486

054

229054 -4-

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
1153728	1153503	331399	5387550	1153203
1153729	1153504	331948	5388150	1153204
1153730	1153505	331899	5388199	1153205
1153751	1153301	326699	5428800	1153076
1153756	1153306	324598	5420600	1153081
1153757	1153307	324799	5420500	1153082
1153758	1153308	324799	5420550	1153083
1153759	1153309	325099	5415999	1153084
1153760	1153310	327799	5421200	1153085
1153761	1153311	331800	5418300	1153086
1153762	1153312	329199	5418600	1153087
1153763	1153313	329498	5418200	1153088
1153764	1153314	329400	5419500	1153089
1153765	1153315	331199	5416550	1153090
1153768	1153318	332299	5417400	1153093
1153776	1153326	329299	5414200	1153101
1153778	1153328	330949	5410249	1153103
1153779	1153329	330949	5409550	1153104
1153780	1153330	332250	5406150	1153105
1153781	1153331	330749	5409900	1153106
1153782	1153332	329099	5416349	1153107
1153783	1153333	326324	5414399	1153108
1153784	1153334	326901	5412300	1153109
1153785	1153335	327075	5412150	1153110
1153786	1153336	329050	5405200	1153111
1153800	1153350	331350	5385699	1153125
1153876	1153426	332700	5402800	1153051
1153877	1153427	332800	5403000	1153052
1153879	1153429	332801	5402850	1153054
1153880	1153430	331499	5402400	1153055

Project: ROCKY CAPE

Tenement: 1/77

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
1153881	1153431	331498	5402499	1153056
1153882	1153432	332750	5401950	1153057
1153888	1153438	330500	5387500	1153063
1153889	1153439	330449	5387499	1153064
1153890	1153440	334650	5383350	1153065

Project: ROCKY CAPE

Tenement: EL 1/77

Clay Fraction DPO: 30484

Panned Concentrate DPO: 30486

31-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 PANCON

THE FOLLOWING VARIABLES ARE IN THE DATA SET:

EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG
NO	FEZ	MN	AS	SN	W	BA	AU(B)	AUP	WT

057

LISTING OF ARCHIVAL INFORMATION FOR THE INPUT DATA

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

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

***** THE FOLLOWING SPECIAL VALUES WERE RECORDED 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
WT	-1.000

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

NUMBER OF RECORDS WRITTEN IS : 125
RECORD LENGTH IS : 22

229057

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MO
1153001	328399	5430100	55	10	25	15	5	2	250	1	10
1153004	329349	5427600	55	15	55	70	5	5	330	1	25
1153005	327399	5424799	55	15	85	10	5	5	290	1	45
1153010	331951	5420650	55	65	430	30	25	30	95	1	195
1153011	331899	5420550	55	15	105	40	15	5	190	1	50
1153013	331049	5420100	55	5	40	10	2	5	390	1	10
1153014	330198	5418800	55	5	20	5	5	5	380	1	10
1153015	329249	5419850	55	45	300	10	25	20	175	1	150
1153016	327549	5418000	55	5	20	10	2	2	340	1	15
1153018	332699	5420700	55	40	240	35	20	25	200	1	115
1153027	329800	5412099	55	10	10	15	5	5	540	1	20
1153028	329749	5412100	55	5	10	10	2	5	450	1	15
1153033	331199	5409799	55	5	10	20	2	5	220	2	5
1153034	331701	5406650	55	5	5	10	2	2	340	1	10
1153035	331449	5405750	55	5	5	15	2	2	260	1	5
1153036	332200	5404300	55	5	5	15	2	2	125	1	5
1153037	328748	5417200	55	5	5	10	2	2	290	1	10
1153038	329199	5415500	55	5	10	15	2	5	340	2	10
1153039	329049	5415650	55	5	5	10	2	2	210	1	5
1153040	326650	5413100	55	5	5	10	2	2	290	1	10
1153041	326700	5413100	55	5	5	10	2	2	250	1	5
1153042	327000	5410799	55	5	5	10	2	2	360	0.5	10
1153043	324999	5414999	55	5	5	15	2	2	310	1	10
1153044	324999	5415199	55	5	5	20	2	2	180	1	5
1153045	329000	5407650	55	5	5	10	2	2	270	1	5
1153301	326699	5428800	55	20	20	30	15	5	1100	1	20
1153306	324598	5420600	55	5	5	10	2	2	420	1	15
1153307	324799	5420500	55	10	10	15	5	2	440	0.5	20
1153308	324799	5420550	55	5	5	5	2	2	280	0.5	10
1153309	325099	5415999	55	5	5	10	10	2	390	0.5	15
1153310	327799	5421200	55	35	220	10	10	15	260	1	110
1153311	331800	5418300	55	5	10	10	2	2	320	2	15
1153312	329199	5418600	55	5	5	10	2	2	570	1	25
1153313	329498	5418200	55	5	5	5	2	2	450	1	20
1153314	329400	5419500	55	5	10	15	2	5	290	1	15
1153315	331199	5416550	55	5	10	5	2	2	520	1	25
1153318	332299	5417400	55	5	10	5	2	2	560	1	20
1153326	329299	5414200	55	5	5	5	5	2	350	1	15
1153328	330949	5409249	55	5	10	15	5	2	490	0.5	15
1153329	330949	5409550	55	10	5	10	10	5	370	1	10
1153330	332250	5406150	55	5	10	10	2	2	440	2	10
1153331	330749	5409900	55	5	10	10	5	2	430	1	10
1153332	329099	5416349	55	5	5	10	2	2	390	1	10
1153333	326324	5414399	55	5	5	30	2	2	340	0.5	10
1153334	326901	5412300	55	5	5	25	2	2	430	1	10
1153335	327075	5412150	55	5	5	25	15	2	260	0.5	10
1153336	329050	5405200	55	5	5	10	2	2	155	1	5
1153350	331350	5385699	55	10	55	20	5	5	390	1	35
1153426	332700	5402800	55	5	5	15	5	2	420	1	10
1153427	332800	5403000	55	10	5	25	2	2	300	1	5
1153429	332801	5402850	55	5	5	20	2	2	290	0.5	10
1153430	331499	5402400	55	5	10	25	15	5	470	2	10
1153431	331498	5402499	55	5	5	20	5	5	440	1	2.5
1153432	332750	5401950	55	5	5	35	2	2	410	1	5
1153438	330500	5387500	55	5	5	5	2	2	185	1	5
1153439	330449	5387499	55	10	15	40	2	2	360	1	10
1153440	334650	5383350	56	10	5	30	2	2	290	1	10
1153451	326900	5427900	55	10	15	10	15	5	680	1	25
1153452	325298	5428200	55	10	10	10	5	5	740	1	20
1153453	325399	5428200	55	10	20	10	10	5	490	1	20

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MO
1153454	327099	5423400	55	5	10	5	5	5	500	1	15
1153455	327250	5423400	55	10	35	10	5	5	380	1	20
1153456	325049	5419300	55	5	5	5	5	5	590	1	15
1153457	325048	5419100	55	5	5	10	5	5	460	0.5	15
1153458	324899	5418000	55	10	5	10	20	5	1300	0.5	40
1153459	325099	5416900	55	5	5	5	10	5	790	0.5	20
1153460	326350	5415750	55	5	10	5	5	5	530	1	15
1153461	326299	5415600	55	5	5	5	5	5	730	0.5	20
1153462	327899	5421300	55	5	5	5	5	5	320	1	10
1153463	331300	5418500	55	5	5	5	5	5	400	0.5	10
1153464	331299	5418200	55	5	5	10	10	5	530	0.5	15
1153465	329650	5418150	55	5	5	5	5	5	410	0.5	15
1153466	330999	5417200	55	5	10	10	5	5	430	1	15
1153467	331148	5417200	55	5	5	10	2	2	360	1	15
1153470	332699	5419100	55	5	10	10	2	2	420	1	10
1153471	331500	5416199	55	5	10	10	5	5	720	2	20
1153480	329800	5414400	55	5	20	20	10	10	430	1	5
1153481	329900	5414550	55	10	10	10	20	5	960	1	30
1153484	330749	5410500	55	5	10	10	10	2	310	1	10
1153485	331249	5409450	55	10	5	10	30	5	1350	1	40
1153486	330749	5410050	55	5	5	5	5	5	200	0.5	5
1153487	329299	5417500	55	5	5	10	15	5	980	1	30
1153489	325050	5412700	55	5	5	5	10	5	620	0.5	20
1153490	326200	5411100	55	5	5	10	15	5	550	0.5	15
1153491	328100	5410250	55	5	5	10	10	5	490	0.5	15
1153492	328899	5407849	55	15	5	10	15	5	820	1	30
1153493	328000	5410500	55	5	5	5	15	5	820	0.5	25
1153503	331399	5387550	55	5	10	10	10	5	860	1	15
1153504	331948	5388150	55	5	15	25	10	5	370	1	10
1153505	331899	5388199	55	5	5	15	2	5	420	1	10
1153526	328500	5429900	55	5	5	15	2	5	230	1	10
1153527	328575	5426050	55	10	15	30	5	5	250	1	10
1153528	328649	5425849	55	10	10	20	5	5	310	1	10
1153530	327024	5424975	55	10	10	30	5	5	280	1	10
1153531	326999	5425225	55	10	15	10	10	5	390	1	20
1153532	327150	5425250	55	5	5	10	10	5	380	1	15
1153533	327824	5425050	55	10	10	50	15	5	440	1	20
1153538	330999	5420100	55	5	10	10	10	5	290	1	10
1153539	330275	5418975	55	5	10	15	10	5	340	1	15
1153540	329124	5419675	55	5	15	10	5	5	370	1	15
1153541	327624	5418200	55	5	10	15	20	5	1050	2	40
1153543	332650	5420500	55	10	20	20	20	5	175	1	10
1153553	328999	5414675	55	5	5	10	10	5	420	1	15
1153554	328899	5414675	55	5	10	10	20	5	280	1	10
1153557	330649	5413540	55	5	5	5	10	5	390	1	15
1153558	331099	5410300	55	5	15	20	10	5	260	2	10
1153559	331349	5407520	55	20	10	30	10	5	450	1	15
1153560	331573	5407460	55	10	5	15	15	5	350	1	10
1153561	331860	5404550	55	5	10	10	10	5	280	2	5
1153562	327960	5417650	55	5	10	10	15	5	440	1	15
1153563	329548	5416074	55	10	5	15	5	5	340	1	10
1153564	329725	5416074	55	5	5	5	10	5	480	1	15
1153565	328824	5413350	55	5	5	10	5	5	360	1	10
1153566	325138	5411774	55	10	5	15	15	5	750	1	25
1153567	327110	5409799	55	5	5	15	15	5	700	1	20
1153568	327849	5409210	55	5	10	15	10	5	320	1	10
1153569	327859	5408999	55	10	5	10	20	5	980	1	35
1153571	329060	5406350	55	5	5	5	10	5	310	1	10
1153574	331830	5403140	55	5	10	15	5	5	230	1	5
1153577	331699	5402200	55	5	15	15	10	5	440	2	15

059

229059

060

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MO
1153578	331800	5402000	55	5	10	10	5	5	300	1	10
1153579	331740	5401660	55	5	30	15	15	5	420	2	10
1153581	331299	5386000	55	5	25	10	5	2	200	2	5
1153582	332400	5382699	55	5	15	10	5	5	500	1	10
1153583	332400	5382849	55	5	10	20	2	2	320	2	5

229060

SAMPLE NO.	FEX	MN	AS	SN	M	BA	AU(B)	AUP	WT
1153001	0.54	150	-	60	30	130	-	0.71	48.6
1153004	0.8	40	-	30	210	80	-	0.05	21.04
1153005	0.29	25	-	2.5	50	100	-	0.05	28.85
1153010	3.63	45	-	70	360	200	-	0.1	26.05
1153011	0.51	25	-	2.5	110	140	-	0.05	43.13
1153013	0.55	75	-	2.5	60	50	-	0.1	28.47
1153014	0.89	40	-	2.5	40	80	-	0.1	39.76
1153015	0.36	40	-	5	200	270	-	0.3	38
1153016	0.32	30	-	2.5	50	30	-	0.1	22.96
1153018	8.03	85	-	5	140	310	-	0.05	19.97
1153027	0.6	45	-	5	60	30	-	0.05	14.17
1153028	0.62	105	-	2.5	5	60	-	0.05	41.04
1153033	0.76	185	-	2.5	30	50	-	0.05	40.62
1153034	0.31	30	-	2.5	20	5	-	0.05	22.3
1153035	0.3	35	-	2.5	20	30	-	0.05	27.92
1153036	0.18	15	-	2.5	10	20	-	0.05	85.71
1153037	0.34	30	-	2.5	20	60	-	0.05	32.39
1153038	0.72	150	-	2.5	40	20	-	0.05	16.64
1153039	0.27	20	-	2.5	20	5	-	0.1	25.01
1153040	0.25	25	-	2.5	30	30	-	0.1	24.4
1153041	0.22	15	-	2.5	10	30	-	0.05	42.59
1153042	0.33	25	-	15	190	20	-	0.05	17.8
1153043	0.29	20	-	2.5	30	20	-	0.05	20.7
1153044	0.18	10	-	2.5	10	10	-	0.05	64.59
1153045	0.25	15	-	2.5	20	40	-	0.05	35.28
1153301	0.72	60	-	5000	130	50	-	1.7	23.68
1153306	0.38	20	-	2.5	20	20	-	0.1	63.61
1153307	0.4	25	-	2.5	10	40	-	0.2	50.63
1153308	0.28	15	-	2.5	5	30	-	0.05	92.34
1153309	0.35	20	-	2.5	10	40	-	0.05	70.52
1153310	0.54	25	-	10	90	270	-	0.05	97.29
1153311	0.43	45	-	2.5	30	50	-	0.6	171.84
1153312	0.53	45	-	2.5	10	30	-	0.1	54.36
1153313	0.46	50	-	2.5	10	50	-	0.1	61.4
1153314	2.65	75	-	2.5	10	140	-	0.05	100.8
1153315	0.52	35	-	2.5	20	30	-	0.1	49.8
1153318	0.65	75	-	2.5	30	20	-	0.05	50.71
1153326	0.36	55	-	2.5	10	30	-	0.05	66.52
1153328	0.54	85	-	5	130	30	-	0.05	16.5
1153329	0.59	85	-	2.5	60	30	-	0.2	24.59
1153330	0.4	45	-	2.5	60	20	-	0.1	16.82
1153331	0.61	145	-	2.5	60	80	-	0.1	14.9
1153332	0.33	30	-	2.5	20	30	-	0.05	21.82
1153333	0.34	25	-	2.5	40	60	-	0.1	15.57
1153334	0.42	25	-	2.5	40	20	-	0.3	10.87
1153335	0.27	20	-	2.5	20	50	-	0.3	28.85
1153336	0.16	10	-	2.5	10	30	-	0.1	83.44
1153350	0.33	25	-	1050	30	60	-	0.1	51.77
1153426	0.36	35	-	5	30	20	-	0.1	20.9
1153427	0.25	25	-	2.5	20	5	-	0.05	27.28
1153429	0.24	15	-	2.5	20	5	-	0.05	17.3
1153430	0.72	155	-	2.5	40	20	-	0.05	23.68
1153431	0.53	95	-	5	50	30	-	0.1	30.88
1153432	0.33	35	-	5	120	20	-	0.05	23.52
1153438	0.2	15	-	130	40	90	-	0.05	254.5
1153439	0.46	95	-	5750	40	50	-	1.2	78.47
1153440	0.19	15	-	1700	20	20	-	0.2	178.66
1153451	0.68	30	-	2.5	5	30	-	1.6	46.26
1153452	0.7	50	-	2.5	5	40	-	0.2	27.62
1153453	0.43	25	-	35	10	80	-	0.1	90.87

061

229061

SAMPLE NO.	FEX	MN	AS	SN	W	BA	AU(B)	AUP	MT
1153454	0.46	30	-	2.5	10	60	-	0.5	64.23
1153455	0.33	15	-	2.5	10	130	-	0.05	86.75
1153456	0.49	20	-	2.5	10	10	-	3.4	83.87
1153457	0.35	15	-	2.5	5	20	-	0.2	77.44
1153458	1.01	40	-	20	20	5	-	2.9	14.66
1153459	0.63	25	-	2.5	5	30	-	3.9	104.25
1153460	0.43	20	-	2.5	5	60	-	0.1	87.61
1153461	0.58	25	-	2.5	5	20	-	0.1	51.67
1153462	0.37	15	-	2.5	5	120	-	0.05	176.18
1153463	0.39	25	-	2.5	5	70	-	0.1	82.98
1153464	0.52	40	-	2.5	5	60	-	0.05	80.45
1153465	0.5	35	-	2.5	5	50	-	0.05	119.41
1153466	0.49	35	-	2.5	5	30	-	0.05	88.67
1153467	0.44	50	-	2.5	10	60	-	0.1	96.6
1153470	0.38	35	-	2.5	20	70	-	0.1	126.59
1153471	0.74	95	-	2.5	40	70	-	0.1	64.61
1153480	1.17	280	-	2.5	20	120	-	0.05	82.8
1153481	0.88	50	-	5	200	10	-	0.05	11.26
1153484	0.49	105	-	2.5	5	70	-	0.1	133.3
1153485	1.25	55	-	2.5	20	20	-	0.1	9.81
1153486	0.22	20	-	2.5	5	70	-	0.05	148.62
1153487	0.84	35	-	2.5	5	20	-	0.2	29.66
1153489	0.55	25	-	2.5	5	50	-	0.1	50
1153490	0.5	45	-	55	450	5	-	0.2	7.71
1153491	0.46	25	-	2.5	5	70	-	0.2	19.52
1153492	0.8	60	-	2.5	10	60	-	0.3	11.37
1153493	0.75	60	-	2.5	10	50	-	0.3	12.88
1153503	0.68	50	-	1700	10	30	-	0.6	22.24
1153504	0.56	135	-	3050	20	60	-	3.1	1831
1153505	0.27	20	-	3300	10	50	-	0.5	280.13
1153526	0.22	15	-	2.5	10	60	-	0.4	152.63
1153527	0.66	70	-	2.5	10	170	-	0.1	108.52
1153528	0.3	30	-	2.5	10	40	-	0.1	127.1
1153530	0.39	70	-	2.5	10	60	-	0.1	109.85
1153531	0.5	100	-	2.5	10	50	-	0.1	21.78
1153532	0.35	20	-	2.5	10	70	-	0.1	158.39
1153533	0.48	40	-	2.5	10	40	-	2.8	47.97
1153538	0.28	20	-	2.5	20	10	-	0.1	87.38
1153539	0.45	40	-	2.5	10	70	-	0.1	45.18
1153540	0.45	45	-	10	40	40	-	0.1	19.85
1153541	1.17	145	-	2.5	40	5	-	0.1	8.04
1153543	1.12	50	-	2.5	40	150	-	0.05	108.77
1153553	0.44	35	-	2.5	10	5	-	0.2	12.57
1153554	0.31	25	-	2.5	5	5	-	0.1	13.69
1153557	0.37	15	-	25	10	20	-	0.05	36.55
1153558	0.75	125	-	2.5	10	100	-	0.05	83.39
1153559	0.63	90	-	2.5	5	40	-	0.05	20.94
1153560	0.38	25	-	2.5	5	5	-	0.1	12.28
1153561	0.49	90	-	10	30	30	-	0.05	99.45
1153562	0.45	25	-	2.5	5	60	-	0.1	39.31
1153563	0.43	30	-	2.5	5	40	-	0.1	43.45
1153564	0.48	25	-	2.5	10	60	-	0.1	34.24
1153565	0.33	20	-	2.5	5	10	-	0.05	33.53
1153566	0.71	35	-	2.5	20	20	-	0.05	10.93
1153567	0.62	30	-	2.5	5	30	-	0.05	17.52
1153568	0.31	15	-	2.5	5	30	-	0.1	141.17
1153569	0.9	40	-	-	-	-	-	0.05	4.1
1153571	0.3	15	-	2.5	5	40	-	0.05	76.54
1153576	0.31	60	-	2.5	5	30	-	0.05	77.71
1153577	0.51	60	-	2.5	10	5	-	0.05	12.87

SAMPLE NO.	FEZ	MN	AS	SN	W	BA	AU(B)	AUP	WT
1153578	0.39	75	-	2.5	5	40	-	0.05	127.48
1153579	0.88	125	-	10	40	100	-	0.05	21.26
1153581	0.25	35	-	20	10	60	-	0.1	281.88
1153582	0.34	40	-	14300	110	40	-	1.9	112.58
1153583	0.23	20	-	2050	20	40	-	0.1	192.61

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

063

229063

064

229064

APPENDIX 3

CLAY FRACTION ASSAY RESULTS

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
1153376	1153001	328399	5430100	1142801
1153379	1153004	329349	5427600	1142804
1153380	1153005	327399	5424799	1142805
1153385	1153010	331951	5420650	1142810
1153386	1153011	331899	5420550	1142811
1153388	1153013	331049	5420100	1142813
1153389	1153014	330198	5418800	1142814
1153390	1153015	329249	5419850	1142815
1153391	1153016	327549	5418000	1142816
1153393	1153018	332699	5420700	1142818
1153402	1153027	329800	5412099	1142827
1153403	1153028	329749	5412100	1142828
1153408	1153033	331199	5409799	1142833
1153409	1153034	331701	5406650	1142834
1153410	1153035	331449	5405750	1142835
1153411	1153036	332200	5404300	1142836
1153412	1153037	328748	5417200	1142837
1153413	1153038	329199	5415500	1142838
1153414	1153039	329049	5415650	1142839
1153415	1153040	326650	5413100	1142840
1153416	1153041	326700	5413100	1142841
1153417	1153042	327000	5410799	1142842
1153418	1153043	324999	5414999	1142843
1153419	1153044	324999	5415199	1142844
1153420	1153045	329000	5407650	1142845
1153601	1153526	328500	5429900	1153226
1153602	1153527	328575	5426050	1153227
1153603	1153528	328649	5425849	1153228
1153605	1153530	327024	5424975	1153230
1153606	1153531	326999	5425225	1153231

Project: ROCKY CAPE

Tenement: EL 1/77

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
1153607	1153532	327150	5425250	1153232
1153608	1153533	327824	5425050	1153233
1153613	1153538	330999	5420100	1153238
1153614	1153539	330275	5418975	1153239
1153615	1153540	329124	5419675	1153240
1153616	1153541	327624	5418200	1153241
1153618	1153543	332650	5420500	1153243
1153628	1153553	328999	5414675	1153253
1153629	1153554	328899	5414675	1153254
1153632	1153557	330649	5413540	1153257
1153633	1153558	331099	5410300	1153258
1153634	1153559	331349	5407520	1153259
1153635	1153560	331573	5407460	1153260
1153636	1153561	331860	5404550	1153261
1153637	1153562	327960	5417650	1153262
1153638	1153563	329548	5416074	1153263
1153639	1153564	329725	5416074	1153264
1153640	1153565	328824	5413350	1153265
1153641	1153566	325138	5411774	1153266
1153642	1153567	327110	5409799	1153267
1153643	1153568	327849	5409210	1153268
1153644	1153569	327859	5418999	1153269
1153646	1153571	329060	5406350	1153271
1153651	1153576	331830	5403140	1153276
1153652	1153577	331699	5402200	1153277
1153653	1153578	331800	5402000	1153278
1153654	1153579	331740	5401660	1153279
1153656	1153581	331299	5386000	1153281
1153657	1153582	332400	5382699	1153282
1153658	1153583	332400	5382849	1153283

Project: ROCKY CAPETenement: EL 1/77

Clay Fraction DPO: 30484

Panned Concentrate DPO: 30486

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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
1153676	1153451	326900	5427900	1153151
1153677	1153452	325298	5428200	1153152
1153678	1153453	325399	5428200	1153153
1153679	1153454	327099	5423400	1153154
1153680	1153455	327250	5423400	1153155
1153681	1153456	325049	5419300	1153156
1153682	1153457	325048	5419100	1153157
1153683	1153458	324899	5418000	1153158
1153684	1153459	325099	5416900	1153159
1153685	1153460	326350	5415750	1153160
1153686	1153461	326299	5415600	1153161
1153687	1153462	327899	5421300	1153162
1153688	1153463	331300	5418500	1153163
1153689	1153464	331299	5418200	1153164
1153690	1153465	329650	5418150	1153165
1153691	1153466	330999	5417200	1153166
1153692	1153467	331148	5417200	1153167
1153695	1153470	332699	5419100	1153170
1153696	1153471	331500	5416199	1153171
1153705	1153480	329800	5414400	1153180
1153706	1153481	329900	5414550	1153181
1153709	1153484	330749	5410500	1153184
1153710	1153485	331249	5409450	1153185
1153711	1153486	330749	5410050	1153186
1153712	1153487	329299	5417500	1153187
1153714	1153489	325050	5412700	1153189
1153715	1153490	326200	5411100	1153190
1153716	1153491	328100	5410250	1153191
1153717	1153492	328899	5407849	1153192
1153718	1153493	328000	5410500	1153193

Project: ROCKY CAPE Tenement: EL 1/77

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
1153728	1153503	331399	5387550	1153203
1153729	1153504	331948	5388150	1153204
1153730	1153505	331899	5388199	1153205
1153751	1153301	326699	5428800	1153076
1153756	1153306	324598	5420600	1153081
1153757	1153307	324799	5420500	1153082
1153758	1153308	324799	5420550	1153083
1153759	1153309	325099	5415999	1153084
1153760	1153310	327799	5421200	1153085
1153761	1153311	331800	5418300	1153086
1153762	1153312	329199	5418600	1153087
1153763	1153313	329498	5418200	1153088
1153764	1153314	329400	5419500	1153089
1153765	1153315	331199	5416550	1153090
1153768	1153318	332299	5417400	1153093
1153776	1153326	329299	5414200	1153101
1153778	1153328	330949	5410249	1153103
1153779	1153329	330949	5409550	1153104
1153780	1153330	332250	5406150	1153105
1153781	1153331	330749	5409900	1153106
1153782	1153332	329099	5416349	1153107
1153783	1153333	326324	5414399	1153108
1153784	1153334	326901	5412300	1153109
1153785	1153335	327075	5412150	1153110
1153786	1153336	329050	5405200	1153111
1153800	1153350	331350	5385699	1153125
1153876	1153426	332700	5402800	1153051
1153877	1153427	332800	5403000	1153052
1153879	1153429	332801	5402850	1153054
1153880	1153430	331499	5402400	1153055

Project: ROCKY CAPE Tenement: 1/77

Clay Fraction DPO: 30484

Panned Concentrate DPO: 30486

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CRA EXPLORATION PTY LTD

229069

-5-

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
1153881	1153431	331498	5402499	1153056
1153882	1153432	332750	5401950	1153057
1153888	1153438	330500	5387500	1153063
1153889	1153439	330449	5387499	1153064
1153890	1153440	334650	5383350	1153065

Project: ROCKY CAPE

Tenement: EL 1/77

Clay Fraction DPO: 30484

Panned Concentrate DPO: 30486

070

01-FEB-85

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A PROGRAM IN THE GASF 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	PR	ZN	NI	CO	CR	AG
MO	FEZ	MM	AS	SN	W	BA	AU(B)	AUP	

229070

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
FEX	-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 : 125
RECORD LENGTH IS : 21

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MD
1153376	328399	5430100	55	10	15	30	20	5	-	-	25
1153379	329349	5427600	55	5	10	25	10	5	-	-	15
1153380	327399	5424799	55	10	10	20	15	5	-	-	20
1153385	331951	5420650	55	10	20	40	15	10	-	-	20
1153386	331899	5420550	55	5	10	20	10	5	-	-	10
1153388	331049	5420100	55	10	10	80	15	5	-	-	25
1153389	330198	5418800	55	10	10	40	20	5	-	-	30
1153390	329249	5419850	55	10	10	45	10	5	-	-	15
1153391	327549	5418000	55	2	10	90	10	5	-	-	15
1153393	332699	5420700	55	5	10	75	15	5	-	-	20
1153402	329800	5412099	55	5	10	195	10	5	-	-	15
1153403	329749	5412100	55	5	5	35	10	5	-	-	10
1153408	331199	5409799	55	2	10	20	10	5	-	-	20
1153409	331701	5406650	55	2	5	20	10	5	-	-	15
1153410	331449	5405750	55	2	5	15	10	5	-	-	20
1153411	332200	5404300	55	5	5	65	10	5	-	-	30
1153412	328748	5417200	55	10	15	105	15	5	-	-	10
1153413	329199	5415500	55	5	5	35	5	5	-	-	30
1153414	329049	5415650	55	5	10	260	15	5	-	-	20
1153415	326650	5413100	55	2	5	40	10	5	-	-	20
1153416	326700	5413100	55	5	5	165	15	5	-	-	10
1153417	327000	5410799	55	2	5	45	10	5	-	-	25
1153418	324999	5414999	55	5	5	85	15	5	-	-	25
1153419	324999	5415199	55	5	5	75	15	5	-	-	20
1153420	329000	5407650	55	5	5	90	15	5	-	-	15
1153601	328500	5429900	55	5	10	10	35	5	-	-	10
1153602	328575	5426050	55	5	15	20	25	5	-	-	5
1153603	328649	5425849	55	5	10	5	10	5	-	-	15
1153605	327024	5424975	55	10	10	10	35	5	-	-	20
1153606	326999	5425225	55	10	10	25	40	5	-	-	15
1153607	327150	5425250	55	5	5	15	30	5	-	-	25
1153608	327824	5425050	55	10	20	25	45	5	-	-	20
1153613	330999	5420100	55	5	10	15	45	5	-	-	30
1153614	330275	5418975	55	5	10	15	45	5	-	-	5
1153615	329124	5419675	55	2	10	5	15	5	-	-	30
1153616	327624	5418200	55	5	5	20	60	5	-	-	15
1153618	332650	5420500	55	10	10	35	35	5	-	-	50
1153628	328999	5414675	55	15	5	50	110	5	-	-	10
1153629	328899	5414675	55	2	5	5	25	5	-	-	10
1153632	330649	5413540	55	2	5	5	5	5	-	-	25
1153633	331099	5410300	55	10	10	40	15	5	-	-	25
1153634	331349	5407520	55	5	5	35	15	5	-	-	10
1153635	331573	5407460	55	2	5	2	5	5	-	-	15
1153636	331860	5404550	55	2	5	5	5	5	-	-	15
1153637	327960	5417650	55	2	10	10	5	5	-	-	30
1153638	329548	5416074	55	10	10	20	15	5	-	-	30
1153639	329725	5416074	55	10	5	20	15	5	-	-	15
1153640	328824	5413350	55	2	5	15	10	5	-	-	40
1153641	325138	5411774	55	5	5	20	20	5	-	-	30
1153642	327110	5409799	55	5	5	35	15	5	-	-	15
1153643	327849	5409210	55	2	5	5	5	5	-	-	15
1153644	327859	5408999	55	2	5	20	5	5	-	-	30
1153646	329060	5406350	55	10	5	30	25	5	-	-	10
1153651	331830	5403140	55	2	10	2	5	5	-	-	15
1153652	331699	5402200	55	2	5	10	5	5	-	-	10
1153653	331800	5402000	55	2	10	10	10	5	-	-	15
1153654	331740	5401660	55	5	10	15	10	5	-	-	15
1153656	331299	5386000	55	5	5	20	10	5	-	-	40
1153657	332400	5382699	55	10	10	45	30	5	-	-	20
1153658	332400	5382849	55	5	10	280	10	5	-	-	20

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MO
1153676	326900	5427900	55	10	10	65	15	5	-	-	30
1153677	325298	5428200	55	5	5	35	5	5	-	-	15
1153678	325399	5428200	55	2	5	25	5	5	-	-	10
1153679	327099	5423400	55	10	10	45	10	5	-	-	20
1153680	327250	5423400	55	15	10	1250	25	5	-	-	50
1153681	325049	5419300	55	10	10	280	15	5	-	-	20
1153682	325048	5419100	55	5	5	55	15	5	-	-	30
1153683	324899	5418000	55	5	5	15	10	5	-	-	25
1153684	325099	5416900	55	5	5	60	20	5	-	-	40
1153685	326350	5415750	55	5	5	25	10	5	-	-	20
1153686	326299	5415600	55	5	5	20	20	5	-	-	30
1153687	327899	5421300	55	5	10	20	10	5	-	-	20
1153688	331300	5418500	55	5	10	30	15	5	-	-	30
1153689	331299	5418200	55	2	5	10	5	5	-	-	10
1153690	329650	5418150	55	10	20	55	25	10	-	-	50
1153691	330999	5417200	55	5	15	25	15	5	-	-	30
1153692	331148	5417200	55	5	10	35	20	5	-	-	30
1153695	332699	5419100	55	5	10	20	15	5	-	-	15
1153696	331500	5416199	55	5	10	15	15	5	-	-	25
1153705	329800	5414400	55	5	15	35	10	5	-	-	15
1153706	329900	5414550	55	10	10	15	20	5	-	-	35
1153709	330749	5410500	55	5	5	20	20	5	-	-	30
1153710	331249	5409450	55	5	5	35	15	5	-	-	35
1153711	330749	5410050	55	5	5	75	15	5	-	-	30
1153712	329299	5417500	55	10	20	65	35	10	-	-	60
1153714	325050	5412700	55	10	5	40	35	5	-	-	70
1153715	326200	5411100	55	10	10	270	30	5	-	-	65
1153716	328100	5410250	55	10	10	100	15	5	-	-	35
1153717	328899	5407849	55	10	10	130	20	5	-	-	45
1153718	328000	5410500	55	10	10	120	25	5	-	-	55
1153728	331399	5387550	55	5	10	15	20	5	-	-	25
1153729	331948	5388150	55	5	5	60	10	5	-	-	20
1153730	331899	5388199	55	10	20	40	10	5	-	-	15
1153751	326699	5428800	55	10	5	75	10	5	-	-	10
1153756	324598	5420600	55	5	5	10	20	5	-	-	40
1153757	324799	5420500	55	5	5	20	15	5	-	-	35
1153758	324799	5420550	55	5	10	30	25	5	-	-	40
1153759	325099	5415999	55	10	5	45	25	5	-	-	50
1153760	327799	5421200	55	20	20	120	20	5	-	-	20
1153761	331800	5418300	55	10	10	35	10	5	-	-	15
1153762	329199	5418600	55	10	15	40	30	5	-	-	40
1153763	329498	5418200	55	15	30	80	25	5	-	-	55
1153764	329400	5419500	55	5	10	15	15	5	-	-	20
1153765	331199	5416550	55	2	10	15	10	5	-	-	15
1153768	332299	5417400	55	5	10	30	10	5	-	-	15
1153776	329299	5414200	55	5	5	45	20	5	-	-	30
1153778	330949	5409249	55	5	5	75	20	5	-	-	35
1153779	330949	5409550	55	5	5	35	30	5	-	-	30
1153780	332250	5406150	55	10	10	260	30	5	-	-	45
1153781	330749	5409900	55	5	5	380	15	5	-	-	25
1153782	329099	5416349	55	5	5	105	25	5	-	-	35
1153783	326324	5414399	55	5	5	20	20	5	-	-	35
1153784	326901	5412300	55	10	5	80	40	5	-	-	60
1153785	327075	5412150	55	5	5	20	15	5	-	-	25
1153786	329050	5405200	55	5	5	20	20	5	-	-	25
1153800	331350	5385699	55	10	10	45	20	5	-	-	30
1153876	332700	5402800	55	15	10	115	30	5	-	-	55
1153877	332800	5403000	55	5	10	45	10	5	-	-	20
1153879	332801	5402850	55	5	5	95	15	5	-	-	30
1153880	331499	5402400	55	5	5	85	15	5	-	-	30

Q73

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074

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MO
1153881	331498	5402499	55	5	5	30	10	5	-	-	20
1153882	332750	5401950	55	2	5	10	5	2	-	-	10
1153888	330500	5387500	55	5	15	25	10	5	-	-	20
1153889	330447	5387499	55	2	10	5	5	2	-	-	10
1153890	334650	5383350	55	5	5	15	15	5	-	-	20

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SAMPLE NO.	FEZ	MN	AS	SN	W	BA	AU(B)	AUP
1153376	1.42	100	6	2.5	90	50	-	-
1153379	0.82	50	5	2.5	50	150	-	-
1153380	1.03	75	5	2.5	70	90	-	-
1153385	2.84	270	16	2.5	50	370	-	-
1153386	1.01	65	4	2.5	40	160	-	-
1153388	1.42	95	6	2.5	80	120	-	-
1153389	1.78	115	7	2.5	100	90	-	-
1153390	1.4	70	10	2.5	40	190	-	-
1153391	0.76	80	4	2.5	40	150	-	-
1153393	2.6	50	9	2.5	30	400	-	-
1153402	0.79	60	4	2.5	50	180	-	-
1153403	0.77	60	3	2.5	40	150	-	-
1153408	0.7	75	3	2.5	30	180	-	-
1153409	0.79	65	3	2.5	50	130	-	-
1153410	1	50	3	2.5	40	130	-	-
1153411	0.71	55	2	2.5	50	50	-	-
1153412	1.51	115	5	2.5	90	80	-	-
1153413	0.61	70	2	2.5	30	160	-	-
1153414	0.98	80	5	2.5	80	70	-	-
1153415	0.58	45	1	2.5	40	110	-	-
1153416	0.65	55	2	2.5	50	100	-	-
1153417	0.31	20	1	2.5	30	60	-	-
1153418	0.75	55	1	2.5	60	90	-	-
1153419	1	60	1	2.5	70	5	-	-
1153420	0.66	50	4	2.5	50	60	-	-
1153601	1.02	55	6	2.5	30	90	-	-
1153602	1.2	85	5	2.5	30	190	-	-
1153603	0.5	40	3	2.5	20	100	-	-
1153605	1.01	100	24	2.5	40	130	-	-
1153606	1.17	90	16	2.5	40	80	-	-
1153607	0.9	50	5	2.5	30	120	-	-
1153608	1.56	95	5	2.5	50	90	-	-
1153613	1.22	60	2	2.5	50	60	-	-
1153614	1	90	3	2.5	60	120	-	-
1153615	0.46	25	1	2.5	10	110	-	-
1153616	1.38	95	1	2.5	60	140	-	-
1153618	1.84	80	4	2.5	30	460	-	-
1153628	2.19	130	3	2.5	120	10	-	-
1153629	0.55	50	1	2.5	20	70	-	-
1153632	0.42	30	0.5	2.5	40	60	-	-
1153633	1.69	130	4	2.5	70	120	-	-
1153634	1.24	95	2	2.5	70	120	-	-
1153635	0.38	30	0.5	2.5	30	10	-	-
1153636	0.62	55	0.5	2.5	40	80	-	-
1153637	0.55	40	1	2.5	40	180	-	-
1153638	1.63	110	6	2.5	90	120	-	-
1153639	1.37	95	8	2.5	90	110	-	-
1153640	0.61	45	1	2.5	50	60	-	-
1153641	1.41	100	0.5	2.5	130	10	-	-
1153642	1	85	1	2.5	90	20	-	-
1153643	0.39	30	0.5	2.5	30	40	-	-
1153644	0.48	35	1	2.5	40	160	-	-
1153646	1.28	95	1	2.5	110	50	-	-
1153651	0.49	50	0.5	2.5	40	40	-	-
1153652	0.57	45	1	2.5	50	70	-	-
1153653	0.55	65	0.5	2.5	40	60	-	-
1153654	0.81	50	3	2.5	40	110	-	-
1153656	0.76	65	1	2.5	50	80	-	-
1153657	1.58	130	1	2.5	140	5	-	-
1153658	0.93	95	2	2.5	60	40	-	-

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SAMPLE NO.	FEZ	HN	AS	SN	W	BA	AU(B)	AUP
1153676	1.13	100	2	2.5	80	5	-	-
1153677	0.63	45	1	2.5	30	120	-	-
1153678	0.59	35	1	2.5	30	90	-	-
1153679	0.88	100	4	2.5	50	70	-	-
1153680	1.84	140	2	-	-	-	-	-
1153681	1.13	60	5	2.5	60	100	-	-
1153682	0.92	65	0.5	2.5	80	5	-	-
1153683	0.74	60	1	2.5	80	10	-	-
1153684	1.27	90	1	2.5	130	5	-	-
1153685	0.71	50	1	2.5	50	60	-	-
1153686	1	70	1	2.5	80	40	-	-
1153687	1.03	55	3	2.5	60	100	-	-
1153688	1.16	90	1	2.5	80	120	-	-
1153689	0.49	25	3	2.5	30	20	-	-
1153690	2.53	840	3	-	-	-	-	-
1153691	1.32	140	2	2.5	80	100	-	-
1153692	1.36	105	5	2.5	90	100	-	-
1153695	0.74	50	2	2.5	50	120	-	-
1153696	1.07	70	2	2.5	70	90	-	-
1153705	1.67	125	3	2.5	50	270	-	-
1153706	1.22	90	1	2.5	120	60	-	-
1153709	1.22	95	1	2.5	110	100	-	-
1153710	1.19	85	1	2.5	110	80	-	-
1153711	1	75	1	2.5	90	80	-	-
1153712	2.61	290	6	2.5	80	160	-	-
1153714	2.23	160	1	-	-	-	-	-
1153715	1.83	135	2	-	-	-	-	-
1153716	1.25	90	1	2.5	110	110	-	-
1153717	1.55	120	9	-	-	-	-	-
1153718	1.67	135	2	-	-	-	-	-
1153728	1.19	85	2	20	120	5	-	-
1153729	0.88	85	1	2.5	70	210	-	-
1153730	0.85	65	2	2.5	70	120	-	-
1153751	1.61	80	3	2.5	20	430	-	-
1153756	1.2	90	1	2.5	140	30	-	-
1153757	1.06	80	1	2.5	120	5	-	-
1153758	1.17	90	1	2.5	130	5	-	-
1153759	1.56	110	2	2.5	180	5	-	-
1153760	2.12	80	7	2.5	70	260	-	-
1153761	1.43	100	4	2.5	50	310	-	-
1153762	1.82	140	5	-	-	-	-	-
1153763	2.32	195	8	-	-	-	-	-
1153764	1.1	75	5	2.5	70	180	-	-
1153765	0.65	55	2	2.5	60	170	-	-
1153768	0.86	90	1	2.5	70	90	-	-
1153776	1.07	85	2	2.5	90	90	-	-
1153778	1.26	100	2	2.5	120	70	-	-
1153779	1.9	160	7	2.5	90	70	-	-
1153780	1.67	130	4	-	-	-	-	-
1153781	1.03	85	2	2.5	80	140	-	-
1153782	1.64	115	5	2.5	120	170	-	-
1153783	1.31	90	1	2.5	120	110	-	-
1153784	2.17	150	2	-	-	-	-	-
1153785	0.87	65	1	2.5	80	180	-	-
1153786	0.82	60	0.5	2.5	80	40	-	-
1153800	1.33	105	7	2.5	100	110	-	-
1153876	1.9	140	4	-	-	-	-	-
1153877	0.71	65	1	2.5	60	60	-	-
1153879	0.79	55	1	2.5	50	30	-	-
1153880	1.02	75	2	2.5	70	30	-	-

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SAMPLE NO.	FEZ	MN	AS	SN	W	BA	AU(B)	AUP
1153881	0.89	70	1	2.5	50	90	-	-
1153882	0.35	25	1	2.5	20	70	-	-
1153888	1.34	105	5	2.5	50	210	-	-
1153889	0.42	30	2	5	30	130	-	-
1153890	0.68	50	2	2.5	60	50	-	-

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

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APPENDIX 4

ROCK CHIP SAMPLE LEDGERS AND 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** - DSRS Code.
- From - To** - In 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).

ROCK TYPE CODE

Sediments - Clastic

Sedimentary Rock	SDRC
Conglomerate	CONG
Breccia	BREC
Grit	GRIT
Sandstone	
Undiff	SSUD
Greywacke	GREY
Arkose	ARKO
Calcareous	CLAR
Siltstone	SLST
Shale	SNAL
Calcareous Shale	CLSN
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	
Liasen	ARLM
Chart	CHRT
Jasperoid	JASP
Evaporite	EVAP
Phosphate Rock	PHRC
Magnesite	MGST
Iron Formation	IRFM

Miscellaneous

Silicate	SLRT
Calcrete	CLRT
Beauite	BAUX
Ironstone	IRST
Laterite	LATR
Gossan	GOSS
Sulphides	SULP
Quartz Vein	QTVN
Greisen	GRES
Ferberite	FUBR

Volcanics

Agglomerate	AGLM
Lapilli Tuff	LFTT
Ash Flow Tuff	AFTF
Ignimbrite	IGNM
Crystal Tuff	CRTF
Vitric Tuff	VITF
Obsidian	OSBD
Mudflow	MUDF
Tuffaceous	
Sandstone	TFSS
Shale	TFSM
Basic Volc.	
Undiff	BVUD
Basalt	BASL
Basic Lava	BSLV
Basic Pyroclast	BSPY
Intermed Volc.	
Undiff	IVUD
Andesite	ANSD
Intermed. Lava	INLV
Intermed.	
Pyroclastic	INPY
Acid Volc.	
Undiff	AVUD
Rhyolite	RHYL
Rhyodacite	RHYD
Dacite	DACT

1 yte	TRAC
Acid Lava	ACLV
Acid Pyroclast	ACPY
Metamorphics	
Metamorphic Rock	
Undiff	MURD
Breccia	BREC
Mylonite	MLOW
Gouge	GOUG
Marble	MARB
Calc Silicate	CLSL
Skarn	SKAR
Hornfels	HORN
Slate/Phyllite	SLAT
Quartzite	QTZT
Meta Sediment	
Fine	MFPN
Meta Sediment	
Course	MCCR
Metavolcanic	MTVL
Greenachist	GRSC
Schist Undiff	SCUD
Schist Mafic	SCMF
Schist Leuco	SCLE
Schist Amphibole	SCAM
Schist	
Andalusite	SCAN
Schist Biotite	SCBT
Schist Chlorite	SCCN
Schist Garnet	SCGR
Schist Muscovite	SCMS
Schist Mica	SCMC
Schist Platic	SCPL
Schist Psammitic	SCPS
Schist Sericite	SCSR
Schist Quartz	SCSQ
Mica	SCOM
Staurolite	SCST
Schist Talc	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
Staurolite	GNST
Granulite	GNLT
Gneiss	GNIG
Igneous - Intrusive	
Greenstone	GRGN
Ultrabasic Intr.	
Undiff	UIUD
Eclogite	ECLG
Peridotite	PERD
Serpentinite	SERP
Anorthosite	ANOR
Gabbro	GABR
Alkali Gabbro	ALGB
Morite	MORT
Picrite	PICR
Pyroxenite	PYRX
Dunite	DUNT
Carbonatite	CARB
Kimberlite	KIMB
Coarse Basic	
Intr.	CBIN
Med Basic Intr.	MBIN
Fine Basic Intr.	FBIN
Leucopyrite	LAMP
Coarse Intermed	
Intr.	CIIN
Med Intermed	MIIM
Intr.	MIIN

Fine Intermed	
Intr.	FIIN
Syenite	SYEN
Dolerite	DOLA
Diorite	DIOR
Coarse Acid Intr.	CAIN
Medium Acid Intr.	MAIN
Fine Acid Intr.	FAIN
Granite	GRAM
Aplite	APLT
Adamellite	ADAM
Granodiorite	GRDR
Quartz Porphyry	QUPR
Quartz Feldspar	
Porphyry	OPPR
Granophyre	GRPH
Pegmatite	PEGM
Class	GLAS
ALTERATION CODE	
Argillisation	ARGL
Albitisation	ALBT
Calc Silicate	CLSL
Carbonatation	CARB
Chloritisation	CHLR
Dolomitisation	DOLM
Ferruginisation	FERG
Kaolinisation	KAOL
Potassic	POTS
Propylitisation	PROP
Pyritisation	PYRT
Sulphurisation	SUSU
Sericification	SERC
Silicification	SILC
Talcose	TALC
Tourmalinisation	TOUR
Zoolitisation	ZEOL
Other	OTHR
MINERALISATION STYLE CODE	
Stratabound	SB
Discordant	DC
Veins/Met Vaining	VN
Stockwork	SW
Fault/Joints	FL
Shear	SH
Pods	PD
Disseminated	DS
Semi Massive	SM
Massive	MS
Skarn	SK
Pipe	PP
Porwork (or poss assoc. of min)	BW
Placer	PL
Eluvial	EL
MINERAL CODE	
Actinolite	ACTN
Adularia	ADUL
Agate	AGAT
Alkali Feldspar	ALFL
Albite	ALBT
Allanite	ALAN
Alumite	ALUM
Amlygonite	AMBL
Amethyst	AMET
Amphibole	AMPH
Andalusite	ANDL
Andesine	ANDE
Anhydrite	ANHY
Ankerite	ANKR
Anthophyllite	ANTH
Antimonite	ANTM
Antimony Native	SBNT
Apatite	APAT
Aragonite	ARAG
Argentite	ARGN
Arsenic	ASNT
Arsenopyrite	ARPY

Asbestos	ASBS
Augite	AUGT
Azurite	AZUR
Berite	BART
Bestnaesite	BAST
Bauxite	BAUX
Bentonite	BENT
Beryl	BERY
Biotite	BIOT
Sisouth	SINT
Sisunthinite	SISM
Situmene	SITH
Boracite	BORC
Borax	BORX
Boulangerite	BOUL
Bronzite	BRON
Brucite	BRUC
Calcite	CALC
Carbonate	CARB
Carnotite	CARN
Cassiterite	CASE
Celestite	CELS
Carusite	CERS
Chalcocopy	CHCW
Chalcocite	CHCT
Chalcopyrite	CHPY
Chamosite	CHAM
Chert	CHRT
Chlorite	CHLR
Chrom Diopside	CHDP
Chrom Spinel	CHSP
Chromite	CHRM
Chrysoile	CHRY
Cinnabar	CINN
Clay	CLAY
Clinopyroxene	CLPX
Clinosilicate	CLCS
Cobaltite	COBL
Collophane	COLP
Columbite	COLM
Copper	CPNT
Cordierite	CORD
Corundum	CORR
Covellite	COVL
Crocidolite	CRCC
Cryolite	CRYL
Cubanite	CUBN
Cusningtonite	CUNN
Cuprite	CUPR
Diamond	DIAM
Digonite	DIGN
Diopside	DIOP
Dolomite	DOLM
Electrum	ELEC
Emerald	EMER
Enargite	ENAR
Enstatite	ENST
Epidotite	EPID
Evaporite	EVAP
Fayalite	FAYL
Feldspar	FELD
Ferberite	FERB
Ferrodolomite	FRDL
Fluorite	FLUR
Frankelite	FRAN
Fuchsinite	FUCH
Gahnite	GAMN
Galena	GALN
Garnet	GARN
Garnierite	GARN
Gibbsite	GIBT
Glass	GLAS
Glaucophane	GLAC
Glaucophane	GLGP
Goethite	GOET
Gold	AUWT
Graphite	GRAP
Grauerite	GRGS
Quano	QUAN
Gypsum	CYPS
Malite	MALT
Heazlewoodite	HEAZ
Hedenbergite	HEDN
Hematite	HEMT

Hornblende	HORN
Hubnerite	HUBN
Ilmenite	ILMN
Iron Oxides	YEOX
Jadite	JADT
Jarosite	JARS
Jasper	JASP
Kaolin	KAOL
Kyanite	KYAN
Labradorite	LABR
Lapidolite	LEPD
Leucite	LEUC
Leucosene	LCXN
Limonite	LIMN
Loellingite	LOEL
Magnetite	MAGH
Magnetite	MAGT
Magnetite	MAGT
Malachite	MALC
Manganite	MANG
Marcasite	MARC
Martite	MART
Melilite	MELT
Mercury	MERT
Nica	NICA
Microcline	MICR
Molybdenite	MOLY
Monazite	MONZ
Montmorillonite	MONT
Muscovite	MUSC
Nepheline	NEPH
Nephrite	NEPT
Ochre	OCHR
Oligoclase	OLIG
Olivine	OLIV
Opal	OPAL
Orthoclase	ORCL
Orthopyroxene	ORPX
Pentlandite	PENT
Perthite	PERT
Phlogopite	PHLG
Phosphate	PHOS
Picro-ilmenite	PCIL
Pitchblende	PITC
Plagioclase	PLAG
Platinum	PTWT
Potash Feldspar	PTFL
Prehnite	PREH
Proustite	PROS
Pumpellyite	PUMP
Pyrrhotite	PYRH
Pyrite	PYRT
Pyrochlore	PYCH
Pyroalusite	PYLS
Pyrosophite	PYSP
Pyrope	PYRP
Pyrophyllite	PYPH
Pyroxene	PYRX
Pyrrhotite	PYRH
Quartz	QUAR
Rhodochrosite	RHCH
Rhodonite	RHOD
Riesbeckite	RIES
Ruby	RUBY
Rutile	RUTL
Saite	SALT
Selenide	SAND
Sapphirite	SAPH
Scepolite	SCAP
Scheelite	SCHL
Sericite	SERC
Serpentine	SERP
Siderite	SIDR
Silica	SILC
Silicate	SICT
Sillimanite	SILL
Silver	AGNT
Sulphate	SMIT
Smoky Quartz	SMQT
Specularite	SPEC
Spessartine	SPES
Sphalerite	SPHL
Sphene	SPHN
Spinel	SPIN

Stannite	STAN
Staurolite	STAU
Stibnite	STIB
Stilpnomelane	STIL
Sulphate	SLPT
Sulphides	SLPD
Sylvite	SYLV
Talc	TALC
Tantalite	TANT
Telluride	TELR
Tennantite	TENT
Tetrahedrite	TETR
Thoria	THOR
Topaz	TOPI
Torbernite	TORB
Tourmaline	TOUR
Tremolite	TREM
Uraninite	URNT
Uranophane	URPH
Uranophane	URPH
Vanadinite	VAND
Vermiculite	VERM
Vesuvianite	VESV
Willemitite	WILM
Willyamite	WILY
Witherite	WITN
Wolframite	WOLF
Wollastonite	WOLS
Zeolite	ZEOL
Zincite	ZINC
Zircon	ZIRC
GEOLOGICAL AGE CODE	
Quaternary	QU
Tertiary	TA
Cainozoic	CN
Cretaceous	CR
Jurassic	JR
Triassic	TR
Mesozoic	MS
Permian	PR
Carboniferous	CR
Devonian	DV
Silurian	SL
Ordovician	OR
Cambrian	CB
Paleozoic	PL
Adelaidian	AD
Carperntarian	CP
Lower Proterozoic	LP
Proterozoic	PR
Archaean	AR
Pre Cambrian	PC
GRAIN SIZE CODE	
Clay	CL
Silt	SL
Fine Sand	FS
Coarse Sand	CS
Very Coarse Sand	VC
Gravel	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	VU
TEXTURE CODE	
Blockwork	BW
Massive	MS
Bedded	BD
Crude Bedded	CB
Graded Bedding	GB
Nodular	ND

Aegydoloidal	
Pyroclastic	
Flow Banded	
Granoblastic	
Aphanitic	
Porphyritic	
Porphyroblastic	
Pegmatitic	
Migmatitic	
Gneissic	
Schistose	
Cataclastic	
Bioclastic	

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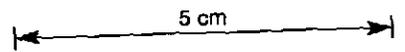
ROCK SAMPLE FIELD SHEET

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
1142380	329449	5414450					O	GOSS			A		PYRT						FG	MS		N	Gossan, massive pyrite
1142384	329200	5420800					O	QTVN		FERG	D	BW	PYRT						FG			Y	Vuggy, ferruginous quartz vein boxworks after py null grab f.gr.pale green spotted, silic. slts
1142385	329200	5420800					F	SILT		SILC												N	Ferruginous pyjama siltstone
1142386	329200	5420800					F	SILT		FERG	T		PYRT									N	Hematitic vuggy quartz vein,dissem.py
1142387	329200	5420800					F	QTVN		FERG	D		PYRT	HEMT					FG		Red	Y	f.gr. red spotted sandstone
1142388	329200	5420800					O	SSUD											FG			N	f.gr.grey-green spotted sltst-leucox
1142389	329200	5420800					O	SILT			D		LEUC									Y	3m chip sample py,ferug,qtz,cu stng, chaysacollay
1142390	329200	5420800					O	QTVN		FERG	A	SM	PYRT	ARPY	CRCL							Y	Ore of mullock, grab, pyritic quartz Arpy Chpy
1142391	329200	5420800					F	QTVN		FERG	A	D	PYRT	ARPY	CHPY								Spotted silic lam siltstone, minor chl
1142392	329200	5420800					O	SILT		SILC	T		CHLR									BL	Fault gouge, manganiferous? predom qtz
1142393	329200	5420800					O	Goug			D	PL	PYRT									N	Greenish silicified, sheared sltst,ch
1142394	329449	5414450					O	SILT		SILC	T		PYRT	CHLR									Green micaceous schist
1142394	329449	5414450					O	SCHC									PC		FG	SC		N	Massive wh qtzts
1142397	331350	5385699			1153276		F	QTZT														N	Massive gy-gn Fe stain on joints
1142751	331830	5403140			1152378		F	QTZT	QTVN													Y	Massive wh; abundant qg vein
1142753	331800	5402000			1153279		F	QTZT	QTVN														Green micaceous schist, grab sample
11442754	331740	5401660			1153281		O	SCMC									PC		FG	Green			Grey quartzite/meta quartzite
1142756	331299	5386000			1153282		F	QTZT									PC		MG	Grey			Grey metaquartzite/quartzite
1142757	332400	5382699			1153283		F	QTZT															
1142758	332400	5382849																					Laminated Qtzt
1142764	327050	5415500					O	QTZT														CB	Laminated Qtzt
1142851	325049	5419300			1153156		F	QTZT	QTVN													CB	Thin Bedded Qtzt
1142852	325048	5419100			1153157		F	QTZT														CB	Thin Bedded Qtzt
1142853	325099	5416900			1153159		F	QTZT														CB	Thin Bedded Qtzt
1142854	326350	5415750			1153160		F	QTZT														CB	Thin Bedded Qtzt
1142855	326299	5415600			1153161		F	QTZT														MS	Massive White Quartzite
1142856	327899	5421300			1153162		F	QTZT	SLAT													CB	Pyritic Pyjama Siltstone
1142857	331300	5418500			1153163		O	SILT			D	DS	PYRT									CB	Pyjama Siltstone ± Carbonate
1142858	331299	5418200			1153164		O	SILT														CB	

COLLECTED BY _____ DATE _____

PROJECT ROCKY CAPE 1:250 000 SHEET
 TENEMENT EL. 1/77 SAMPLE NOS _____
 INVESTIGATION REGIONAL HELI SAMPLING DPOs _____



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ROCK SAMPLE FIELD SHEET

CRA EXPLORATION PTY.LIMITED.

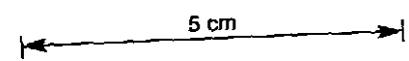
SAMPLE NUMBER	SAMPLE LOCATION			SAMPLE DESCRIPTION				ROCK TYPE			MINERALISATION							GEOLOGICAL OBSERVATION				
	EAST	NORTH	ZONE/LG	SAMPLE TYPE	CORRESPONDING STREAM SEDIMENT NUMBER	WIDTH	EXPOSURE	MAJOR	MINOR	ALTERATION	VISIBLE STYLE	MAJOR	MINOR	MINOR	GANGUE	AGE	MAJOR STR. UNIT		GRAINSIZE	TEXTURE	COLOUR	LOOK
1142859	329650	5418150			1153165		O	SILT										CB				Grey laminated
1142860	330999	5417200			1153166		F	QTZT										MS				Massive Quartzite
1142861	331148	5417200			1153167		O	QTZT										SL	CB	N		Massite White Quartzite
1142864	332699	5419100			1153170		F	SILT										SL	CB	N		Pyjama & siltstone
1142865	331500	5416199			1153171		F	SILT										FS				Carbonaceous laminated siltstone
1142874	329800	5414400			1153180		F	QTZT										FS	M	N		Massive white quartzite with grey spherical patches 3mm across
1142875	329900	5414550			1153181		F	QTZT														Massive white quartzite
1142878	330749	5410500			1153184		F	QTVN										FS	M	N		
1142879	331249	5409450			1153185		F	QTZT										SL			Y	Rich in Black Shale Portion Sample 1: Foliated
1142880	330749	5410050			1153186		F	SILT										SL			N	Microfolded
1142881	329299	5417500			1153187		F	SILT										FS			N	Laminated White quartzite
1142883	325050	5412700			1153189		F	QTZT										FS	I		N	Weakly laminated white quartzite
1142884	326200	5411100			1153190		O	QTZT										FS	CB		N	Cross laminated white quartzite
1142885	328100	5410250			1153191		F	QTZT										FS			N	Laminated quartzite
1142886	328899	5407849			1153192		O	QTZT										FS	I		N	Weakly Laminated white quartzite with weak limonite staining
1142887	328000	5410500			1153193													SL			N	Foliated siltstone
1142895	331399	5387550			1153203		O	SILT			N							FG	BD	GY		Site 266
1142901	328500	5429900			1153226		O	SILT			D	SB	TOUR					FG	BD	BKWT		Site 10 Pyjama rock
1142902	328575	5426050			1153227		O	SILT			D	SB	TOUR	PYRH				FG	BD	BKWT		Site 11 Pyjama rock
1142903	328649	5425849			1153228		O	SILT			D	VN	PYRH	PYRT				FG	BD	GN		Site 7
1142905	327024	5424975			1153230		O	SILT			N							FG	SC	BK		Weak to gn-buff
1142906	326999	5425225			1153231		O	SLAT			N		GRAP					FG	SC	BK		St clear
1142907	327150	5425250			1153232		O	SLAT			N							FG	BD	GY		Laminated
1142908	327824	5425050			1153233		O	SILT			N							FG	BD	GYGN		300°/80°S finely laminated
1142913	330999	5420100			1153238		O	SILT			N							FG	BD	DKGN		270°/80°S conv lam
1142914	330275	5418975			1153239		O	SILT			N											

PROJECT ROCKY CAPE
 TENEMENT EL 1/77
 INVESTIGATION REGIONAL HELI SAMPLING

1:250 000 SHEET
 SAMPLE NOS _____
 DPOs _____

COLLECTED BY _____
 LOCAL GRID CROSS REF _____

DATE _____



229081

ROCK SAMPLE FIELD SHEET

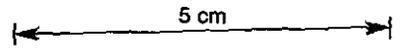
CRA EXPLORATION PTY.LIMITED.

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	GRAIN SIZE	TEXTURE	COLOUR	LOOK
1142915	329124	5419675			1153240		F	SILT			T		QUAR	FEOX					FG	BD	GY		Conv Lam quartz veining
1142916	327624	5418200			1153241		O	SILT			T			FEOX					FG	BD	DGY		Fine lams 160°/80°W
1142918	332650	5420500			1153243		O	SSUD	SILT		D	DS	PYRT						FG	BD	LG	Y	345°/40°E HM banding
1142928	328999	5414675			1153253		F	QTZT	SILT		T	DS	HM									Y	Lathes of gn-gy material (silt?)
1142929	328899	5414675			1153254		O	SILT	QTZT		N											Y	290°/30°N convolute lam
1142932	330649	5413540			1153257		F	QTZT	QTVN		N											Y	305°/90°?? massive
1142933	331099	5410300			1153258		O	SILT	QTZT		N											Y	215°/55° NW lam, Qtzt interbeds
1142934	331349	5407520			1153259		O	SILT	QTZT		N											Y	145°/50°SW 'pyjama' silts
1142935	331573	5407460			1153260		F	QTZT	QTVN		N											Y	Massive, brown rust spots
1142936	331860	5404550			1153261		F	QTZT	QTVN		T	SB	HM									Y	White qtzt
1142937	327960	5417650			1153262		F	QTZT														N	HM on bedding plain
1142938	329548	5416074			1153263		O	QTZT														Y	195°/40°E lt gy
1142939	329725	5416074			1153264		F	SILT	SSUD													Y	'Pyjama' rock
1142940	328824	5413350			1153265		O	QTZT														Y	315°/70° SW (?) gy-gn
1142941	325138	5411774			1153266		O	QTZT			T		PERO									Y	145°/75°E white-pk
1142942	327110	5409799			1153267		O	QTZT			T		PERO									N	145°/30°E white-pk
1142943	327849	5409210			1153268		F	QTZT														N	White quartzite, mostly massive
1142944	327859	5408999			1153269		F	QTZT														N	White quartzite, mostly massive
1142946	329060	5406350			1153270		O	QTZT														N	340°/50°E Massive gy-pk
1142951	326699	5428800			1153076		F	SSUD											FS	BD		Y	Permian?
1142955	324598	5420600			1153081		O	SSUD											FS	BD		Y	Fine grained banded foliated sst
1142956	325099	5415999			1153084		O	SSUD			T	DS		PYRT					FS	BD		Y	Pyrite boxworks in beds
1142958	327799	5421200			1153085		F	SSUD			D	DS		PYRT					SL	BW		Y	Bedded boxworks
1142959	327799	5421200			1153085	11	O	SILT			D	DS		PYRT					SL	BW		Y	Bedded boxworks
1142960	331800	5418300			1153086		O	SILT											SL			N	
1142961	329199	5418600			1153087		O	SILT											SL	BW		Y	Carbonatic siltstone & black shale
1142962	329498	5418200			1153088		O	SILT			T	DS		PYRT					SL	BW		Y	Possibly carbonatic
1142963	329400	5419500			1153089		F	SSUD			T	DS		PYRT					CS	BW		Y	Bedded (?)

COLLECTED BY _____ LOCAL GRID CROSS REF _____

PROJECT ROCKY CAPE
 TENEMENT EL 1/77
 INVESTIGATION REGIONAL HELI SAMPLING

1:250 000 SHEET
 SAMPLE NOS _____
 DPOS _____



229082

ROCK SAMPLE FIELD SHEET

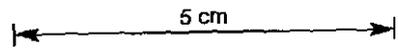
CRA EXPLORATION PTY.LIMITED.

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
1142964	329400	5419500			1153089		F	LATR										CL	MS		Y	Ferricrete cementing alluvium
1142965	331199	5416550			1153090		O	CHER										CL	BD		Y	2cm thick bed
1142966	331199	5416550			1153090		O	SILT										SL	BD		N	
1142968	332299	5417400			1153093		O	SILT										SL	BD		N	
1142976	329299	5414200			1153101		F	SILT													N	
1142978	330949	5409249			1153103			SILT													Y	With 1142980
1142979	330949	5409550			1153104			SILT													Y	With 1142979, modern LATR
1142980	330949	5409550			1153104			LATR													N	
1142981	332250	5406150			1153105			SILT													N	
1142982	332250	5406150			1153105			SILT			T DS	PYRT				PC		FG	BD	GR		t.lam grey siltstone grab
1142983	320900	5416349			1153107		O	SILT								PC		MG		WH		mgr white quartzite grab
1142984	326324	5414399			1153108		O	QTZT								PC		MG		WH		mgr white quartzite grab
1142985	326901	5412300			1153109		O	QTZT								PC		MG		WH		mgr white quartzite grab
1142986	329050	5405200			1153111		O	QTZT														Brecciated silicified siltstone
1153826	328399	5430100			1142801		F	CHER														Silty laminae NVM
1153829	329349	5427600			1142804		O	QTZT														Fine grained silty qzite NVM interlam. dark grey, shaley sls
1153832	331951	5420650			1142810		O	QTZT														Fine grained silty qzite NVM interlam. dark grey, shaley sls
1153833	331899	5420550			1142811		O	QTZT														1 D.80°S ST 090° Green
1153835	331049	5420100			1142813		O	SILT														1 D.15°E ST 320° Pyjama
1153836	330198	5418800			1142814		O	SILT														1 D.25°E ST 340° Pyjama
1153837	329249	5419850			1142815		O	SILT														
1153838	327549	5418000			1142816		U	QTVN			T PD	PYRT	CHPY									1 D.35°N ST 290° Grey-grn sls
1153840	332699	5420700			1142818		O	SILT														1 Black sh & pyj sls 150° ST 60°WD
1153845	329749	5412100			1142828		O	SHAL	SILT													1 Tight qzite + 1/2m veins qz
1153849	331199	5409799			1142833		O	QTZT			VN	QTVN										ST 340° D70°E Pyjama siltstone
1153850	332200	5404300			1142836		O	SILT														1 Massive fine gr. quartzite
1153851	329199	5415500			1142838		O	QTZT														1 ST 090° D 5°N
1153852	329049	5415650			1142839		O	QTZT														

PROJECT ROCKY CAPE
 TENEMENT EL 1/77
 INVESTIGATION REGIONAL HELI SAMPLING

1:250 000 SHEET
 SAMPLE NOS
 DPOS

COLLECTED BY
 LOCAL GRID CROSS REF



22908

5084

ROCK SAMPLE FIELD SHEET

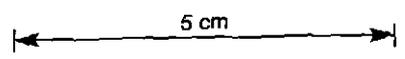
CRA EXPLORATION PTY. LIMITED.

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
1153853	327000	5410799			1142842		0	QTZT															1 ST 340° D 20°E
1153854	324999	5415199			1142844		0	QTZT															1 Non foliated amph
1153857	332800	5403000			1153052		F	AMPH				VN	QTVN										1 Massive f.grain buff quartzite
1153859	332801	5402850			1153054		0	QTZT															1 ST 160°D 60°E Pyjama siltstone
1153860	331499	5402400			1153055		0	SILT															1 Weathered Sandy siltstone
1153861	331498	5402499			1153056		0	SILT															1 Cleaved silts ST120° D 30°S
1153865	330500	5387500			1153063		0	SILT				VN	QTVN										1 Ab qz veins in coarse-med grained white quartzites
1153866	334650	5383350			1153065		0	QTZT	QTVN														

PROJECT ROCKY CAPE
 TENEMENT EL 1/77
 INVESTIGATION REGIONAL HELI SAMPLING

1:250 000 SHEET
 SAMPLE NOS _____
 DPOS _____

COLLECTED BY _____
 LOCAL GRID CROSS REF _____
 DATE _____



229084

01-FEB-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 ROCK

THE FOLLOWING VARIABLES ARE IN THE DATA SET:

EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG
NO	FEZ	MN	AS	SN	W	BA	AU(B)	AUP	

086

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
AUF	-1.000

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

NUMBER OF RECORDS WRITTEN IS : 120
RECORD LENGTH IS : 21

229086

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MO
1142380	329449	5414450	55	4100	20	10	-	-	-	1	10
1142384	329200	5420800	55	380	20	20	-	-	-	1	20
1142385	329200	5420800	55	900	2	10	-	-	-	0.5	15
1142386	329200	5420800	55	120	2	10	-	-	-	1	10
1142387	329200	5420800	55	520	10	10	-	-	-	0.5	15
1142388	329200	5420800	55	65	2	25	-	-	-	1	10
1142389	329200	5420800	55	740	2	60	-	-	-	1	10
1142390	329200	5420800	55	1200	5	15	-	-	-	0.5	15
1142391	329200	5420800	55	39800	70	55	-	-	-	5	20
1142392	329200	5420800	55	4100	2	40	-	-	-	1	15
1142393	329449	5414450	55	125000	75	80	-	-	-	14	10
1142394	329449	5414450	55	3050	2	25	-	-	-	1	10
1142397	331350	5385699	55	10	5	65	20	5	-	1	-
1142751	331850	5403140	55	5	5	5	10	5	-	0.5	-
1142753	331800	5402000	55	10	5	20	10	5	-	1	-
1142754	331740	5401660	55	10	5	5	10	5	-	0.5	-
1142756	331299	5386000	55	2	2	40	15	5	-	1	-
1142757	332400	5382599	55	2	2	10	5	5	-	0.5	-
1142758	332400	5382849	55	2	2	10	5	5	-	0.5	-
1142764	327030	5415500	55	5	5	5	25	5	-	0.5	-
1142851	325049	5419300	55	5	10	10	5	5	-	1	-
1142852	325048	5419100	55	2	5	5	5	5	-	1	-
1142853	325099	5416900	55	2	5	5	5	5	-	1	-
1142854	326350	5415750	55	2	5	5	5	5	-	1	-
1142855	326299	5415600	55	5	10	15	5	5	-	1	-
1142856	327899	5421300	55	5	5	5	5	5	-	1	-
1142857	331300	5418500	55	35	15	30	40	20	-	1	-
1142858	331299	5418200	55	10	5	30	10	5	-	1	-
1142859	329650	5418150	55	2	10	20	5	5	-	0.5	-
1142860	330999	5417200	55	5	10	10	5	5	-	0.5	-
1142861	331148	5417200	55	5	10	10	5	5	-	0.5	-
1142864	332699	5419100	55	10	15	30	5	5	-	1	-
1142865	331500	5416199	55	2	5	10	5	5	-	0.5	-
1142874	329800	5414400	55	2	5	5	5	5	-	0.5	-
1142875	329900	5414550	55	2	5	5	5	5	-	0.5	-
1142878	330749	5410500	55	35	10	30	15	10	-	0.5	-
1142879	331249	5409450	55	2	10	5	5	5	-	0.5	-
1142880	330749	5410050	55	2	2	10	5	5	-	0.5	-
1142881	329299	5417500	55	5	5	5	10	5	-	0.5	-
1142883	325050	5412700	55	5	5	5	5	5	-	0.5	-
1142884	326200	5411100	55	5	5	5	5	5	-	0.5	-
1142885	328100	5410250	55	5	5	15	5	5	-	0.5	-
1142886	328899	5407849	55	10	5	5	10	5	-	0.5	-
1142887	328000	5410500	55	2	2	5	5	5	-	1	-
1142895	331399	5387550	55	2	2	15	5	5	-	0.5	-
1142901	328500	5429900	55	10	5	30	10	5	-	0.5	-
1142902	328575	5426050	55	10	5	40	15	10	-	1	-
1142903	328649	5425849	55	10	5	45	10	5	-	1	-
1142905	327024	5424975	55	10	15	35	30	30	-	1	-
1142906	326999	5425225	55	50	5	55	40	5	-	1	-
1142907	327150	5425250	55	40	5	15	15	15	-	0.5	-
1142908	327824	5425050	55	5	2	25	15	5	-	1	-
1142913	330999	5420100	55	5	5	30	20	5	-	0.5	-
1142914	330275	5418975	55	15	5	20	10	5	-	1	-
1142915	329124	5419675	55	5	5	40	10	5	-	1	-
1142916	327624	5418200	55	25	10	15	5	5	-	0.5	-
1142918	332650	5420500	55	10	5	25	10	10	-	0.5	-
1142928	328999	5414675	55	5	5	5	5	5	-	0.5	-
1142929	328899	5414675	55	15	10	25	20	10	-	0.5	-
1142932	330649	5413540	55	5	5	5	5	2	-	0.5	-

SAMPLE NO.	EAST	NORTH	ZONE	CU	PB	ZN	NI	CO	CR	AG	MO
1142933	331099	5410300	55	2	2	20	5	5	-	0.5	-
1142934	331349	5407520	55	5	5	30	5	5	-	1	-
1142935	331573	5407460	55	2	2	5	5	5	-	0.5	-
1142936	331860	5404550	55	5	5	2	5	5	-	0.5	-
1142937	327960	5417650	55	2	2	5	5	5	-	0.5	-
1142938	329548	5416074	55	2	2	5	5	5	-	0.5	-
1142939	329725	5416074	55	5	5	10	5	5	-	0.5	-
1142940	328824	5413350	55	5	5	10	5	5	-	0.5	-
1142941	325138	5411774	55	5	2	2	5	5	-	0.5	-
1142942	327110	5409799	55	2	2	5	5	5	-	0.5	-
1142943	327849	5409210	55	2	2	5	5	5	-	0.5	-
1142944	327859	5408999	55	45	5	10	5	5	-	0.5	-
1142946	329060	5406350	55	5	2	5	5	5	-	0.5	-
1142951	326699	5428800	55	10	2	40	10	5	-	1	-
1142953	324598	5420600	55	5	5	5	2	5	-	0.5	-
1142956	325099	5415999	55	5	2	5	5	5	-	0.5	-
1142958	327799	5421200	55	2	2	35	15	5	-	1	-
1142958	327799	5421200	55	2	2	35	15	5	-	1	-
1142958	327799	5421200	55	2	2	30	10	5	-	0.5	-
1142959	327799	5421200	55	2	2	30	10	5	-	0.5	-
1142960	331800	5418300	55	10	15	65	15	5	-	1	-
1142961	329199	5418600	55	10	10	20	5	5	-	1	-
1142962	329498	5418200	55	5	10	10	5	5	-	0.5	-
1142963	329400	5419500	55	10	10	10	5	5	-	0.5	-
1142964	329400	5419500	55	10	60	55	25	20	-	5	-
1142965	331199	5416550	55	2	2	15	2	5	-	1	-
1142966	331199	5416550	55	5	10	25	10	5	-	0.5	-
1142968	332299	5417400	55	2	5	45	10	10	-	1	-
1142976	329299	5414200	55	2	2	10	5	5	-	0.5	-
1142978	330949	5409249	55	2	2	10	5	5	-	0.5	-
1142979	330949	5409550	55	2	2	15	10	5	-	0.5	-
1142980	330949	5409550	55	5	10	10	20	5	-	1	-
1142981	332250	5406150	55	2	2	10	5	5	-	0.5	-
1142982	332250	5406150	55	2	2	10	5	5	-	0.5	-
1142983	329099	5416349	55	5	5	5	5	5	-	0.5	-
1142984	326324	5414399	55	2	2	10	10	5	-	0.5	-
1142985	326901	5412300	55	2	10	5	5	5	-	0.5	-
1142986	329050	5405200	55	2	5	10	5	5	-	0.5	-
1153826	328399	5430100	55	2	5	5	10	5	-	0.5	-
1153829	329349	5427600	55	15	15	40	10	5	-	1	-
1153832	331951	5420650	55	5	10	10	5	10	-	0.5	-
1153833	331899	5420550	55	5	2	50	15	10	-	1	-
1153835	331049	5420100	55	2	2	30	15	10	-	1	-
1153836	330198	5418800	55	5	2	25	10	10	-	1	-
1153837	329249	5419850	55	10	2	20	5	5	-	0.5	-
1153838	327549	5418000	55	1150	5	10	5	5	-	1	-
1153840	332699	5420700	55	5	5	30	10	5	-	1	-
1153845	329749	5412100	55	5	5	30	5	5	-	1	-
1153849	331199	5409799	55	5	10	15	5	5	-	0.5	-
1153850	332200	5404300	55	10	5	20	10	5	-	0.5	-
1153851	329199	5415500	55	5	2	2	5	5	-	0.5	-
1153852	329049	5415650	55	2	15	5	5	5	-	0.5	-
1153853	327000	5410799	55	2	2	2	5	5	-	0.5	-
1153854	324999	5415199	55	2	5	2	5	5	-	0.5	-
1153857	332800	5403000	55	30	5	40	35	25	-	3	-
1153859	332801	5402850	55	5	2	2	5	2	-	0.5	-
1153860	331499	5402400	55	20	5	45	10	10	-	1	-
1153861	331498	5402499	55	2	2	25	10	5	-	1	-
1153865	330500	5387500	55	5	2	50	15	10	-	1	-
1153866	334650	5383350	55	2	5	5	10	2	-	0.5	-

088

229088

089

SAMPLE NO.	FEZ	MN	AS	SN	W	BA	AU(B)	AUP
1142380	7.27	15	50	2.5	5	270	-	0.06
1142384	7.04	30	30	2.5	5	10	-	0
1142385	2.33	20	20	2.5	5	200	-	0.01
1142386	2.9	10	18	5	5	340	-	0.01
1142387	3.21	20	44	2.5	5	50	-	0.01
1142388	4.02	60	8	2.5	5	250	-	0
1142389	6.14	270	12	2.5	5	470	-	0
1142390	2.62	50	26	2.5	5	30	-	0
1142391	9.46	35	46	2.5	5	60	-	0.45
1142392	3.75	150	14	2.5	10	170	-	0
1142393	12.3	10	42	2.5	5	70	-	0.1
1142394	2.63	260	14	2.5	5	230	-	0
1142397	-	-	5	5	10	710	-	-
1142751	-	-	0.5	2.5	5	10	-	-
1142753	-	-	10	2.5	5	210	-	-
1142754	-	-	1	2.5	10	20	-	-
1142756	-	-	1	2.5	10	800	-	-
1142757	-	-	1	2.5	10	290	-	-
1142758	-	-	4	2.5	5	170	-	-
1142764	-	-	1	2.5	10	70	-	-
1142851	-	-	34	2.5	10	240	-	-
1142852	-	-	12	2.5	5	30	-	-
1142853	-	-	12	2.5	10	150	-	-
1142854	-	-	14	2.5	5	140	-	-
1142855	-	-	195	2.5	10	70	-	-
1142856	-	-	10	2.5	5	210	-	-
1142857	-	-	12	2.5	5	330	-	-
1142858	-	-	8	5	5	640	-	-
1142859	-	-	14	2.5	5	710	-	-
1142860	-	-	145	2.5	5	250	-	-
1142861	-	-	125	2.5	10	460	-	-
1142864	-	-	22	2.5	5	450	-	-
1142865	-	-	9	2.5	10	800	-	-
1142874	-	-	28	2.5	5	110	-	-
1142875	-	-	10	2.5	5	60	-	-
1142878	-	-	120	2.5	5	20	-	-
1142879	-	-	8	2.5	5	290	-	-
1142880	-	-	9	5	5	400	-	-
1142881	-	-	20	2.5	5	470	-	-
1142883	-	-	12	2.5	5	60	-	-
1142884	-	-	10	5	5	150	-	-
1142885	-	-	28	2.5	5	150	-	-
1142886	-	-	46	2.5	5	190	-	-
1142887	-	-	16	2.5	10	570	-	-
1142895	-	-	2	2.5	10	610	-	-
1142901	-	-	26	2.5	5	340	-	-
1142902	-	-	32	2.5	5	510	-	-
1142903	-	-	38	2.5	5	500	-	-
1142905	-	-	36	2.5	5	510	-	-
1142906	-	-	30	2.5	5	450	-	-
1142907	-	-	36	2.5	5	420	-	-
1142908	-	-	26	2.5	5	620	-	-
1142913	-	-	9	2.5	5	560	-	-
1142914	-	-	12	2.5	5	620	-	-
1142915	-	-	12	2.5	5	290	-	-
1142916	-	-	28	2.5	5	550	-	-
1142918	-	-	38	2.5	5	750	-	-
1142928	-	-	2	2.5	5	310	-	-
1142929	-	-	46	2.5	5	650	-	-
1142932	-	-	1	2.5	5	150	-	-

229089

SAMPLE NO.	FEZ	MN	AS	SN	M	BA	AU(B)	AUP
1142933	-	-	5	2.5	5	480	-	-
1142934	-	-	3	2.5	5	480	-	-
1142935	-	-	1	2.5	5	90	-	-
1142936	-	-	1	2.5	5	90	-	-
1142937	-	-	1	2.5	5	140	-	-
1142938	-	-	1	2.5	5	310	-	-
1142939	-	-	6	2.5	10	540	-	-
1142940	-	-	12	2.5	5	270	-	-
1142941	-	-	1	2.5	10	290	-	-
1142942	-	-	0.5	2.5	5	380	-	-
1142943	-	-	0.5	2.5	5	240	-	-
1142944	-	-	1	2.5	10	400	-	-
1142946	-	-	0.5	2.5	5	70	-	-
1142951	-	-	22	5	5	570	-	-
1142955	-	-	65	2.5	5	280	-	-
1142956	-	-	10	2.5	5	40	-	-
1142958	-	-	4	2.5	5	560	-	-
1142958	-	-	4	2.5	5	560	-	-
1142958	-	-	4	2.5	5	560	-	-
1142959	-	-	42	5	5	630	-	-
1142960	-	-	40	2.5	5	330	-	-
1142961	-	-	80	2.5	10	790	-	-
1142962	-	-	34	2.5	10	810	-	-
1142963	-	-	75	2.5	5	380	-	-
1142964	-	-	400	2.5	5	140	-	-
1142965	-	-	5	10	10	1150	-	-
1142966	-	-	30	2.5	10	610	-	-
1142968	-	-	26	2.5	5	600	-	-
1142976	-	-	2	2.5	10	460	-	-
1142978	-	-	14	2.5	5	660	-	-
1142979	-	-	28	2.5	5	370	-	-
1142980	-	-	55	2.5	5	90	-	-
1142981	-	-	12	2.5	5	480	-	-
1142982	-	-	24	2.5	5	370	-	-
1142983	-	-	135	2.5	5	760	-	-
1142984	-	-	14	2.5	5	340	-	-
1142985	-	-	26	2.5	5	290	-	-
1142986	-	-	22	2.5	5	620	-	-
1153826	-	-	0.5	2.5	5	30	-	-
1153829	-	-	8	2.5	5	320	-	-
1153832	-	-	6	2.5	5	340	-	-
1153833	-	-	4	2.5	5	770	-	-
1153835	-	-	2	5	10	560	-	-
1153836	-	-	5	2.5	5	580	-	-
1153837	-	-	3	2.5	5	680	-	-
1153838	-	-	0.5	2.5	10	40	-	-
1153840	-	-	12	2.5	5	810	-	-
1153845	-	-	2	2.5	5	440	-	-
1153849	-	-	2	2.5	5	90	-	-
1153850	-	-	3	2.5	10	180	-	-
1153851	-	-	1	2.5	5	390	-	-
1153852	-	-	4	2.5	10	220	-	-
1153853	-	-	0.5	2.5	5	270	-	-
1153854	-	-	0.5	2.5	10	60	-	-
1153857	-	-	5	2.5	5	290	-	-
1153859	-	-	0.5	2.5	5	300	-	-
1153860	-	-	7	2.5	5	270	-	-
1153861	-	-	2	2.5	5	390	-	-
1153865	-	-	2	5	10	770	-	-
1153866	-	-	0.5	2.5	10	80	-	-

APPENDIX 5

ALERT CREEK AREA

MINERALOGICAL INVESTIGATIONS AND ASSAY RESULTS

094



229094

**The Australian
Mineral Development
Laboratories**

Flemington Street, Frewville
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Telex AA82520

Please address all
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P.O. Box 114 Eastwood
SA 5063
In reply quote:

amdel

3 February 1984

GS 3/1/6/0

CRA Exploration Pty. Limited,
Bellerive Quay,
31 Cambridge Road,
BELLERIVE, Tas. 7018.

Attention: Mr J. Weir

REPORT GS 6296/84 - PART I

YOUR REFERENCE: D.P.O. No. 30480 dated 15 December 1983

IDENTIFICATION: Numbers as in text (12)

MATERIAL: Sand pan concentrates

LOCALITY: Tasmania

DATE RECEIVED: 16 December 1983

WORK REQUIRED: Mineralogical investigation of seven samples.
Chemical analysis of twelve samples

Investigation and Report by: Don McColl

Chief - Geological Services Section: Dr Keith J. Henley
Manager, Mineral and Materials Sciences Division: Dr William G. Spencer

for Brian S. Hickman
Managing Director

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c.c. CRA Exploration Pty. Limited,
GPO Box 384D,
MELBOURNE, Vic. 3001.

CRA Exploration Pty. Limited,
PO Box 138,
ROSNY PARK, Tas. 7018.

Attention: Administration Office

MINERALOGICAL INVESTIGATION OF 13 PANNED SAND CONCENTRATES

1. INTRODUCTION

Thirteen sand pan concentrates were received from AMDEL from CRA Exploration Pty. Limited (Mr J. Weir) in Tasmania, for mineralogical and chemical investigation. The original order listed thirteen samples, but sample No. 1142348 was not found in the package, there is, however, a sample 1142349. Consequently seven samples (not 8) were subjected to mineralogical and chemical investigation and six samples to chemical investigation only.

Analytical chemical results will follow in Part II of this report.

2. PROCEDURE

All samples were weighed as received. Samples numbered 1142143, 1142145, 1142345, 1142346, 1142347, 1142356 and 1142362 were subjected to heavy liquid separation of the entire sample using tetrabromoethane (sp.gr. 2.96) and the weight of the heavy fractions recorded.

The mineralogical constituents of the heavy fractions were investigated by binocular microscopy, investigating a $>210 \mu\text{m}$ and $<210 \mu\text{m}$ fraction of each. Oil grain mounts of the $<210 \mu\text{m}$ fractions were then made using refractive index oils at $\text{RI} = 1.72$ and $\text{RI} = 1.63$, and the samples examined in transmitted and oblique incident illumination using a petrological microscope. All mineral components were identified and their approximate abundance noted.

Finally the abundance of cassiterite in each concentrate was investigated by the zinc-reduction technique, and the form and size of the grains was observed as a pointer to its genesis.

The unseparated pan concentrates, numbers 1142141, 1142349, 1142352, 1142353, 1142355 and 1142357 were sent for chemical analysis together with the concentrates from the mineralogical investigation. Because of the very small quantity of sample present in some of these concentrates, the grains used in the mineralogical studies were recovered and restored to the samples, but even this may not provide sufficient samples for some of the analytical procedures requested. Consequently where necessary techniques were substituted which utilise a smaller sample.

3. RESULTS

See Tables 1 and 2, and the following comments on the cassiterite.

4. COMMENTS ON THE CASSITERITE

Sample No.	Comments
1142143	Very fine well rounded sand-size grains or finer, no relicts of crystal shapes or aggregates. Probably well abraded alluvial material transported a considerable distance
1142145	Very fine to ultra-fine well rounded sand-size grains. Well abraded alluvial source material transported a considerable distance.
1142345	Very fine well rounded sand-size grains, only sparsely present. Well abraded probable alluvial source material transported a considerable distance.
1142346	Grains are well rounded, but there are a few coarser pieces than in the other samples. A few even show a suggestion of crystal shape through otherwise well rounded form. A few grains show recent vitreous fractures suggesting vigorous transportation conditions. Probably from essentially remote alluvial sources.
1142347	Very sparse fine-grained well rounded sand-size grains, probably from an alluvial source, and transported over a considerable distance.
1142356	Extremely sparse traces of cassiterite (if any) in the very finest well rounded alluvial grains. A limonitic patina on many of the grains in this sample causes some difficulty in identification.
1142362	No cassiterite observed.

5. SAMPLES

Following completion of the chemical analyses and forwarding of the results to your office, all samples, fractions or pulps will be forwarded to Zinc Corporation in Broken Hill.

TABLE 1: WEIGHTS OF PANNED SAND
CONCENTRATE
(AS RECEIVED)

Sample No.	Weight (grams)
1142141	18.33
1142143	35.12
1142145	71.47
1142345	13.70
1142346	18.44
1142347	12.76
1142352	11.03
1142349	18.92
1142353	13.44
1142355	14.54
1142356	9.73
1142357	15.84
1142362	10.44

TABLE 2: HEAVY MINERAL CONTENT AND IDENTITY OF HEAVY MINERAL COMPONENTS

	1142143	1142145	1142345	1142346	1142347	1142356	1142362
Weight % Heavy Fraction (2.96 Sp.Gr.)	8.51	34.49	50.07	23.37	29.38	21.60	6.73
Components Observed:							
Titanian iron oxides (ilmenite)	CD	SD	CD	SD	SD	CD	CD
Hydrated titanian oxide (leucoxene)	SD	CD	CD	D	D	CD	CD
Spinel (pleonaste)	CD	CD	CD	SD	SD	SD	CD
Quartz-limonite composites	ND	ND	ND	ND	ND	SD	ND
Topaz	A	Tr	Tr	SD-A	Tr	SD-A	Tr
Zircon	SD	SD	SD-A	SD-A	SD-A	A	SD
Garnet	Tr	Tr	Tr	A-Tr	A-Tr	A	A-Tr
Epidote	Tr	Tr	ND	ND	Tr	A-Tr	Tr
Rutile	A	A	Tr	Tr	Tr	A-Tr	SD-A
Tourmaline	A	A	Tr	Tr	Tr	Tr	A-Tr
Monazite	Tr	A	Tr	Tr	Tr	Tr	Tr
Corundum (some sapphire)	Tr	Tr	Tr	Tr	ND	Tr	Tr
?Thorianite	Tr	Tr	ND	ND	ND	ND	ND
Xenotime	ND	ND	ND	ND	ND	ND	Tr
Cassiterite	SD	SD-A	Tr	A-Tr	Tr	Tr	ND
Sulphide (?pyrite)	ND	ND	ND	Tr	ND	ND	ND

Semiquantitative Abbreviations:

D = Dominant. Used for the component apparently most abundant, regardless of its probable percentage level.

CD = Co-dominant. Used for two (or more) predominating components, both or all of which are judged to be present in roughly equal amounts.

SD = Sub-dominant. The next most abundant component(s).

A = Accessory. Components judged to be present at approximately the level of 5%.

Tr = Trace. Components judged to be below about 5%.

ND = Not detected.

229099



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SA 5063
In reply quote:

amdel

24 February 1984

GS 3/1/6/0

CRA Exploration Pty. Limited,
Bellerive Quay,
31 Cambridge Road,
BELLERIVE, Tas. 7018.

Attention: Mr J. Weir

REPORT GS 6296/84 - PART II (FINAL)

YOUR REFERENCE: D.P.O. No. 30480 dated 15 December 1983
IDENTIFICATION: Numbers as in text (13)
MATERIAL: Sand pan concentrates
LOCALITY: Tasmania
DATE RECEIVED: 16 December 1984
WORK REQUIRED: Chemical analysis of thirteen samples

Investigation and Report by: AC Division and Don McColl

Chief - Geological Services Section: Dr Keith J. Henley
Manager, Mineral and Materials Sciences Division: Dr William G. Spencer

Keith Henley

for Brian S. Hickman
Managing Director

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c.c. CRA Exploration Pty. Limited,
GPO Box 384D,
MELBOURNE, Vic. 3001.

CRA Exploration Pty. Limited,
PO Box 138,
ROSNY PARK, Tas. 7018.

Attention: Administration Officer

CHEMICAL ANALYSIS OF THIRTEEN PANNED SAND CONCENTRATES

1. INTRODUCTION

Thirteen sand pan concentrates were received by AMDEL from CRA Exploration Pty. Limited (Mr J. Weir) in Tasmania, for mineralogical and chemical investigation. This report contains the analytical results and is supplementary to Part I of this report.

2. RESULTS

See Table 3 of this report.

3. ADDITIONAL COMMENTS

The relatively high chromium percentages in several of these samples indicate that much of the opaque grey-black material identified in Part I of this report is partly chromite as well as ilmenite.

4. SAMPLES

Will be forwarded to Zinc Corporation in Broken Hill in the next two or three weeks.

TABLE 3: CHEMICAL ANALYSES

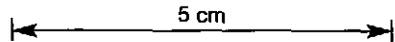
Sample No.	Element						
	Cu ppm	Pb ppm	Zn ppm	Cr %	Sn %	W ppm	Au ppm
1142141	<10	<10	50	0.35	<20 (ppm)	20	0.1 ✓
1142143	<10	90	850	18.8	2.2	130	IS -
1142145	<10	270	680	16.8	1.9	200	5.3 ✓
1142345	<10	130	850	15.5	1.2	160	<0.1 ✓
1142346	30	150	450	7.2	0.3	120	0.1 ✓
1142347	10	80	680	11.6	0.9	100	<0.1 ✓
1142349	<10	60	390	7.7	1.8	100	IS ✓
1142352	<10	50	360	6.9	1.4	400	<0.1 -
1142353	<10	60	230	3.65	0.10	400	<0.1 -
1142355	<10	20	30	0.18	0.05	60	<0.1 -
1142356	10	70	660	11.4	0.20	70	IS -
1142357	<10	40	270	6.8	0.7	60	0.3 ✓
1142362	50	130	480	7.3	0.45	140	IS -

IS = Insufficient sample was available to complete this analytical procedure.

TASMANIA

CRA EXPLORATION PTY. LTD.

Sample Number	LOCATION						ROCK TYPE			MINERALISATION						METAL CONTENT ppm / %											Geological Observations			
	Co-ordinates AMG / Grid		Exposure	S Type	Width (m)	Interval		Major Rock	Minor Rock	Alteration	Visible	Style	Major	Minor	Minor	Gangue	L60K	Cu	Pb	Zn	Ni	Co	As	Ag	Bi	Sn		W	Au	Ba
	East	North				From	To																							
1142147			1	4	-1	-1	-1	8	-1	4	-1	-1	-1	-1	-1	-1	1	<2	<5	100	30	5	3	2	<5	<5	10	6	680	Sundown CK. laminated, SPAND green Oolitic Siltst. → Au v???
1142148			1	4	-1	-1	-1	13	-1	-1	-1	-1	-1	-1	-1	-1	2	<5	45	20	<5	8	1	<5	<5	10	3	680	Gray f.g. mudstone. 96m.	
1142149			2	3	-1	-1	-1	25	-1	-1	4	3	10	-1	-1	1	80	340	10	120	145	680	2	<5	<5	30	23	70	highly siliceous well bedded floe microcrystalline chert? quartz vein? ± 60% Py bedded. 9% green chlor. lam Siltst. 56m.	
1142150			2	4	-1	-1	-1	8	-1	10	-1	-1	-1	-1	-1	-1	10	15	5	10	10	9	<1	<5	<5	30	10	50	Flint? Black Sil. Siltst? w/iron weath. on bedding. 736m.	
1142151			1	4	-1	-1	-1	10	-1	-1	-1	-1	-1	-1	-1	-1	5	15	15	10	5	18	1	<5	<5	20	23	130	1042m. Black Shale.	
1142154			1	4	-1	-1	-1	10	-1	-1	-1	-1	-1	-1	-1	-1	30	20	30	20	10	2	1	<5	15	210	23	300	1331m. Black Shale.	
1142156			2	3	-1	-1	-1	25?	100?	-1	-1	-1	-1	-1	-1	-1	10	5	10	10	10	1	<1	<5	<5	30	23	70	1331m. gray chert / Quartzite?	
1142156			1	4	-1	-1	-1	10	-1	-1	-1	-1	-1	-1	-1	-1	2	<5	45	20	10	1	1	<5	<5	10	23	590	1563m Black Shale.	
1142157			1	4	-1	-1	-1	9	-1	-1	-1	-1	-1	-1	-1	-1	5	<5	45	20	20	15	5	1	<5	<5	210	23	440	1734m. Purple brown/black Shale/slate.
1142159			1	4	-1	-1	-1	10	-1	-1	1	10	-1	-1	-1	-1	15	5	50	20	5	1	<1	<5	5	20	3	370	1984m. Bl. Shale ± 2% Py Bl. hematitic ± places.	
1142160			1	4	-1	-1	-1	10	-1	-1	-1	-1	-1	-1	-1	-1	10	15	70	30	<5	3	1	<5	<5	10	5	430	425m. Black Shale.	
1142162			1	3	-1	-1	-1	8	-1	4	-1	-1	-1	-1	-1	-1	55	5	70	20	5	7	1	<5	5	210	23	740	829m. green chlor. lam. spotted siltst. spots Ferrug.	
1142163			1	4	-1	-1	-1	8	-1	4	-1	-1	-1	-1	-1	-1	2	<5	60	25	<5	1	1	<5	5	210	23	720	1210m green chloritic lam siltst.	
1142165			1	4	-1	-1	-1	8	-1	4	-1	-1	-1	-1	-1	-1	10	<5	15	15	<5	1	<1	5	<5	10	23	700	1520m. green chlor lam siltst.	
1142166			1	4	-1	-1	-1	8	-1	-1	-1	-1	-1	-1	-1	-1	210	<5	45	15	5	1	<1	<5	<5	10	3	560	1911m. v. weath. Spotted lam siltst → Quartzite.	

GEOCHEMICAL ROCK SAMPLING LEDGER			DETECTION LIMIT											ANALYTICAL METHOD													
			Tenement Name: <i>ROCKY CAPE EL 1/77</i>			Project: <i>SUNDOWN CHERT.</i>				AMG Zone: <i>55.</i>				Sheet No.:													
Area / Prospect: <i>SUNDOWN CHERT.</i>			DPO's: <i>30477 30479 (1142159)</i>											Laboratory:													
Map / Photo Ref: <i>SANDY CAPE 1 100 000 Sheet</i>			Sample No's											Collected By													

229103

103

CRA EXPLORATION PTY. LTD.

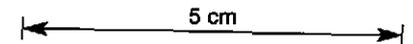
TASMANIA

Sample Number	LOCATION						ROCK TYPE			MINERALISATION							METAL CONTENT ppm / %											Geological Observations		
	Co-ordinates AMG / Grid		Exposure	S. Type	Width (m)	Interval		Major Rock	Minor Rock	Alteration	Visible	Style	Major	Minor	Minor	Gangue	LOOK	Cu	Pb	Zn	Ni	Co	As	Ag	Bi	Sn	W		Au	Ba
	East	North				From	To																							
1142167			1	4	-1	-1	-1	10	-1	-1	-1	-1	-1	-1	-1	-1	20	15	45	20	<5	5	1	<5	5	<10	<5	2028m. Black Shale / S/1st.		
1142170			1	4	-1	-1	-1	10	-1	-1	-1	-1	-1	-1	-1	-1	290	25	10	20	<5	2	<1	<5	15	<5	2447m. Black Shale			
1142173			2	4	-1	-1	-1	25	10	-1	-1	-1	-1	-1	-1	-1	<2	<5	10	10	<5	<1	<1	<5	<5	<10	2466m. Chert? Cellular SPKMY cherty looking rock Black Shale Sh Core ???			
																											2466m/0m			
1142174			2	3	-1	-1	-1	8	-1	-1	-1	-1	-1	-1	-1	-1	10	<5	40	20	<5	2	1	<5	<5	<10	447m. grey siltstone sl. arkosic			
1142175			2	3	-1	-1	-1	8	-1	-1	-1	-1	-1	-1	-1	-1	2	10	40	20	<5	2	<1	<5	<5	<10	med. gr. massive siltstone - arkosic float. sl. fuffaceous? 287m.			
1142179			1	4	-1	-1	-1	8	-1	-1	-1	-1	-1	-1	-1	-1	<2	<5	10	10	<5	3	<1	<5	<5	<10	555. Spotted sil rock - mud clasts. 2-3mm.			
1142180			2	4	-1	-1	-1	25	-1	-1	-1	-1	-1	-1	-1	-1	5	30	30	10	<5	20	<1	<5	<5	<10	599 grey-bl chert float in Outcrops sil shale + pyrite			
1142181			1	4	-1	-1	-1	100	-1	-1	3	-1	10	-1	-1	-1	10	<5	15	10	<5	1	<1	<5	<5	<10	955. Spotted pyritic Quartzite			
1142184			2	3	-1	-1	-1	8	-1	-1	-1	9	10	-1	-1	-1	10	<5	50	20	<5	10	<1	<5	<5	<10	2092m. lam. spl. grey-gun siltst. Spots after py?			
																											BOTTLE CREEK.			
1142194			1	4	-1	-1	-1	8	-1	-1	3	-1	10	-1	-1	-1	370	20	20	15	5	20	<1	<5	20	<10	3	Black lam shale / S/1st + 5% Barroisite py. 162m		
1142195			1	4	-1	-1	-1	5	-1	-1	-1	-1	-1	-1	-1	-1	10	10	70	15	10	2	<1	<5	<5	<10	3	Sheared greywacke, sl. porphyrobl. spotted. 441		
1142197			1	4	-1	-1	-1	8	-1	-1	-1	-1	-1	-1	-1	-1	2	<5	30	30	10	1	1	<5	<5	<10	3	73% Black S/1st.		
1142198			1	4	-1	-1	-1	8	-1	-1	-1	-1	-1	-1	-1	-1	5	5	10	10	5	1	1	<5	<5	<10	3	1189 Sheared grey-bl. S/1st.		
1142330			1	4	-1	-1	-1	8	-1	-1	3	-1	10	-1	-1	-1	5	15	10	20	5	10	1	<5	<5	<10	3	1420 grey-bl. lam S/1st + 10% py.		

GEOCHEMICAL ROCK SAMPLING LEDGER

DETECTION LIMIT

ANALYTICAL METHOD



Tenement Name: ROCKY CAPE EL1/77

Project: SUNDOWN CHERT

AMG Zone: 55

Sheet No:

Area / Prospect: SUNDOWN CHERT.

DPO's: 30479

Laboratory: ALS Brisbane.

Map / Photo Ref: SANDY CAPE 1:100 000

Sample No's:

Collected By: JW

Date: 12/83.

APPENDIX 6

BLACKWATER RIVULET

SAMPLE 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 (N)
- Channel** - Incised deeply (D), weakly (W),
not (N); Braided (B)
- Staining** - Major Fe (FEH), Minor Fe (FEL)
Major Mn (MMH), Minor Mn (MML)
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	SHAL
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
Quart Vein	QTVN
Greisen	GRES
Fubarite	FUBR

Volcanics

Agglomerate	AGLM
Lapilli Tuff	LPTF
Ash Flow Tuff	AFTF
Ignimbrite	IGNM
Crystal Tuff	CRTF
Vitric Tuff	VTF
Obsidian	OBSD
Mudflows	MUDF
Tuffaceous	
Sandstone	TPSS
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
Nylonite	MLON
Gouge	Goug
Marble	MARB
Calc Silicate	CLSL
Skarn	SKAR
Hornfels	HORN
Slate/Phyllite ..	SLAT
Quartzite	QTZT
Meta Sediment -	
Fine	MSPN
Meta Sediment -	
Course	MCOR
Metavolcanic	MTVL
Greenschist	GRSC
Schist Undiff	SCUD
Schist Mafic	SCMF
Schist Leuco	SCSL
Schist Amphibole ..	SCAM
Schist	
Andalusite	SCAN
Schist Biotite ..	SCBT

Schist Chlorite ..	SCCH	Medium Acid Intr.	MAIN
Schist Garnet ...	SOGR	Fine Acid Intr. .	FAIN
Schist Muscovite.	SCMC	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	QFPR
Schist		Granophyre	GRPH
Staurolite ...		Pegmatite	PEGM
Schist Talc		Glass	GLAS
Amphibolite			
Gneiss Undiff ...			
Gneiss Mafic			
Gneiss Leuco			
Gneiss Amphibole.			
Gneiss Augen ...			
Gneiss Biotite ..			
Gneiss Garnet ...			
Gneiss Granite ..			
Gneiss			
Sillimanite ..			
Gneiss			
Staurolite ...			
Granulite			
Migmatite			

Igneous - Intrusives

Greenstone	GREEN
Ultrabasic Intr.	
Undiff	UIUD
Eclogite	ECLG
Peridotite	PERD
Serpentinite	SERP
Anorthosite	ANOR
Gabbro	GABB
Alkali Gabbro ...	ALGB
Norite	NORT
Picrite	PICR
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

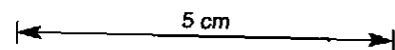
Veins	VEIN	
Gossan	GOSN	
Boxworks After Sulphides..	BOXW	
Massive Sulphides	MSSL	
Dissem. Sulphides	DSSL	
Heavy Minerals	HVMN	
Cu Staining	CUST	
Magnetic Minerals	MGMN	
Evaporites	EVAP	
Argillisation		ARGL
Albitisation		ALBT
Calc Silicate		CLSL
Carbonatization		CARB
Chloritisation		CHLR
Dolomitisation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

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STREAM SEDIMENT SAMPLE 1 ELD SHEET

SS

SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION						SITE DESCRIPTION							GEOLOGY				GEOLOGICAL OBSERVATIONS				
	East	North	Zone	Sample Type	Gravel %	Sand %	Silt %	Clay %	Org %	Width	Gradient	Flow	Banks	Channel	Staining	Content	Site	Outcrop	Flot		Min/Alt	Scint	Look	Veget
																			Major	Minor				
1142677			SS	-80°	6	20	15	9		1	1	S	B	W	W	D	SS	-	DOLY					R
680			SS	-80°	40	20	20	20		2	1	S	C	W	MNL	D	SS		DOLY	MUSS				R
682			SS	-80°	45	20	20	15		1	1	S	B	W	MNL	D	SB		DOLY					
683			SS	-80°	40	10	30	20		1	1	S	C	W	MNL	D	SB		BSL	QTZ	EV			R
684			SS	-80°	20	25	25	30		2	0.5	S	B	W		V	T		BSL	CNER	EV			R



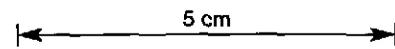
PROJECT Rocky Cape 1:250,000 SHEET Burnie SK 33-3 COLLECTED BY DM
 TENEMENT E2 117 SAMPLE NOS DPO DATE 4/6/84
 INVESTIGATION Blackwater Rivulet follow up 3049



229107

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SAMPLE NUMBER	SAMPLE LOCATION		SAMPLE DESCRIPTION					ROCK TYPE		MINERALISATION						GEOLOGICAL OBSERVATIONS							
	East	North	Zone/10	Sample Type	From	To	Width	Exposure	Major	Minor	Alteration	Visible Style	Major	Minor	Minor		Trace	Age	Mineral	Grain Size	Texture	Colour	Notes
1142678			SS					0	DOLM	CNER							Pe	Ped	Ag	cc	Ch	Y	Cream Dolomite breccia & chert clasts.
679			SS					7	DOLM								Pe	Ped	Ag				Dolomite.
681			SS					0	DOLM	CNER							Pe	Ped	Ag	sp	gn	Y	Grey & fine grained Dolomite chert / shale - rounded chert clasts.
685			SS					0	HENT								Pe						Massive hematite
686			SS					0	HENT								Pe						" "



PROJECT ROCKY CAPE 1:250000 SHEET BURALE SX 55-3. COLLECTED BY DJW. DATE 4/6/84
 TENEMENT EL 1/77 SAMPLE NO.S _____ LOCAL GRID CROSS REF _____
 INVESTIGATION BLACKWATER RIVER FOLLOW UP DPO'S 30490



229109

80T

APPENDIX 7

MEMORANDA FROM T STROKIRCH RE

GEOPHYSICAL INVESTIGATIONS ON

ROCKY CAPE EL 1/77

CRA

CRA EXPLORATION PTY. LIMITED

(INC. IN N.S.W.)

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31 CAMBRIDGE ROAD, BELLERIVE, 7018, TASMANIA, AUSTRALIA

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ROSNY PARK 7018
TELEGRAMS: CRAEX
TELEX: AA57144
TELEPHONE: 44 3533
AREA CODE: (002)

IN REPLY PLEASE QUOTE

10/1/85

MEMO TO :D.J. WEIR
COPY TO :T.W. DICKSON

MEMO FROM :T. VON STROKIRCH

SUBJECT: GROUND GEOPHYSICS ON THE FRANKLAND RIVER
PROSPECT EL 1/77

As ground follow up on the Frankland river grid, a program of geological mapping, ground geophysics and geochemistry was performed. The geophysics consisted of ground magnetic readings taken at 12.5 metre stations along all the lines. The lines were then surveyed with the GENIE reconnaissance ground EM system during October 1984. Readings were taken at 25 metre spacings using two frequency pairs (337Hz/112Hz and 3037Hz/112Hz) and a receiver/transmitter spacing of 100 metres.

INTERPRETATION

Line 5000N

At 3650E there is a sharp magnetic low. Peaks occur at 4200E and 4600E but these appear to be lithologically related rather than anomalies as such. The EM is generally uninteresting. With only 1.5% variation in the low frequency response for the whole line there is little space left for any anomalies. At 2975E there is a low frequency low which may be due to something slightly more conductive at depth but it is well within the noise envelope and not considered interesting. East of 4700E there is an increase in surface conductivity possibly reflecting a basalt.

Line 6500N

The sharp magnetic drop at 1800E has the same appearance as

that on line 5000N indicating that there is a displacement of over a kilometre between the lines. The EM is interesting from an academic point of view as the black shales east of 3200E proved to be extremely conductive with low frequency variations of up to 40%. This high conductivity caused problems in the readings due to the transmitter/receiver separation being very close to the skin depth. The readings for the most conductive of the shales are thus of dubious accuracy but will show the regions of highest conductivity. If there were any sulphide bodies in the black shales it is doubtful whether it would be possible to resolve them. Black shales predominate between 3200E and 4200E. East of 4200E there are intermittent conductive units with the most distinctive being at 4725E. This is a 25 metre wide body dipping at 75 degrees to the east. It reaches to within metres of the surface so if no geochemical response is present it must be presumed to be another black shale.

Line 8000N

This line is very similar to the previous one. The magnetic low is at 2275E and there is a sharp magnetic peak of 300nT at 2450E. There is no conductor associated with the magnetic feature, which is shallow. Thus it is unlikely to be sulphide derived but probably due to preferential weathering of a lithological unit perhaps volcanics. At 2050E there is a surficial conductor of classic form but it does not have any low frequency response. It appears to have a steep westerly dip as does a poorer surface conductor at 2675E. East of 3250E the EM response of the line is dominated by black shales of very high conductivity. A major unit of very high conductivity lies between 3250E and 3875E. East of 4500E there is a less conductive unit (still strongly conductive but less than the western unit).

CONCLUSIONS

No prospective looking conductors were found on these lines and the magnetic anomalies were not found to be associated with any conductive response which tends to down grade them as they appear to be generally fairly shallow in derivation. If there is nothing of interest in the geochemistry I would not recommend doing any more work in the area. If it appears from the geochemistry that there may be a possibility

for shale hosted sulphide bodies then a geophysical system other than EM would probably have to be used; perhaps gravity. In any case this has shown the effectivity of reconnaissance EM in locating black shales in areas where the surface conductivity is not too high and shale hosted bodies are likely.

T. von Strokiroh

115
CRA

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(INC. IN N.S.W.)

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31 CAMBRIDGE ROAD, BELLERIVE, 7018, TASMANIA, AUSTRALIAP.O. BOX 138
ROSNY PARK 7018
TELEGRAMS: CRAFN
TELEX: AAS7144
TELEPHONE: 44 3533
AREA CODE: (002)

IN REPLY PLEASE QUOTE

MEMO TO : J. D. WEIR
COPY TO : T. W. DICKSON

MEMO FROM : T. VON STROKIRCH

NORTH ARTHUR ANOMALIES GROUND GEOPHYSICS
-----INTRODUCTION

* As ground follow up on the North Arthur Magnetic anomalies gridding, geological mapping, ground magnetics, soil geochemistry and reconnaissance EM was performed. The following is concerned primarily with the geophysics. Ground magnetics was completed over all the lines as 12.5 metre reading spacings as soon as the lines were gridded. This data was interpreted to determine if we had located the ground representation of the airborne anomaly. When the Scintrex GENIE system (see appendix) became available we decided to make use of its reconnaissance capabilities to test the possibility of conductors associated with the magnetic anomalies. The EM survey was conducted over a two week period during October 1984. Readings were taken at 25m spacings using two frequency pairs, 337Hz/112Hz and 3037Hz/112Hz at a receiver/transmitter spacing of 100m. Numerous conductors were located. Many of them will probably turn out to be related to graphitic horizons following reappraisal of the geology but a few are of some interest. A line by line report follows.

INTERPRETATION

WHITE ANOMALY

The major feature on this line is the conductor centred on 5525E. Its response is only visible on the higher frequency and is thus interpreted to be due to a shallow source of little depth extent. It coincides with a narrow, thus shallow, well defined magnetic peak. The anomaly is presumed to be due to a magnetic dyke which has suffered preferential weathering at the surface to produce conductive clays.

WALLABY ANOMALY

This anomaly area is covered by very conductive overburden which has highlighted the response of the lower frequency at the expense of the higher. The only conductor on the line is centred on 4750E. It lies on the edge of a broad but well defined magnetic high which dips steeply to the west. The conductor starts at 20-30m depth and dips at 70deg. to the west. As it lies on the edge of the magnetic feature and is only a poor conductor it may be due to a fault. The conductive overburden disappears at the eastern end of the line.

ELECTRIC BLUE ANOMALY

Two conductors are present on this line. One centred on 4450E is poor and basically a surface response, again presumably preferential weathering of one unit. The other is centred on 3825E. It is a weak conductor (less than 10 siemens) at a depth of 55-65m, dipping steeply to the east. It is associated with a peak on the flank of a broader magnetic higher which makes the anomaly of greater interest.

At 4900E there is a large drop in the high frequency response which occurs near the beginning of a period of noisy magnetic response. As there is little low frequency

response, this anomaly may be due simply to a sharp change in overburden conductivity. If there is no geochemical response then this line need not be extended as the conductor will in any case be at surface or subcroppings.

RUBY ANOMALY

The rocks on this line are generally conductive and there is a cover of conductive overburden on the eastern half of the line. There is a major conductor centred on 5960E and a small slightly conductive feature centred on 6350E. The conductor at 6350E is interpreted as being at a depth of 50m dipping at 80deg. to the west but this subject to a fair amount of error due to the low level of anomaly. The major anomaly actually consists of two conductors at 5960E and 6090E. The dips are to the east at 40-60deg. interpretation again being difficult this time due to the interference between the two responses. The depth to the 5960E conductor is between 15-30 metres so if no geochemical response is detected this could be put down to a carbonaceous unit.

ROSE BLUE ANOMALY

The rocks on this profile are generally conductive. At the western end an increase in conductivity and also in the magnetic noise indicate that we are going on to basalts from 4550E westwards. Right at the far western end of the line there is a sharp drop in high and low frequency responses on the EM. This may be associated with a basalt contact but one would not normally expect such a strong response from the low frequency. As there is if anything a magnetic low over this possible conductor I do not recommend an extension of the EM line unless strongly supported by geochemical evidence. The conductor is shallow and probably dips steeply east. Station 4225E would be directly on top of the material causing the conductive response, presumably carbonaceous shales. The second feature of interest on this line is a conductor with coincident magnetic high, located at 4730E. Its depth is on the order of 40m and it dips at 80deg. to the west. It has a conductivity of the order of 1.

1 siemens which corresponds best with a Pb/Zn target though a pyrrhotite skarn with disseminated sulphides could well show a similar response. Unfortunately the conductor is unlikely to be much more than 15m wide and thus does not represent much of a skarn.

GREEN ANOMALY

This line contains three conductors which naturally enough are unlikely to all be ore bodies. The at on 4375E is coincident with a magnetic high, has a width of 20-30m, a depth to top of 35m and a dip of 75des. west. Its conductivity is not high (in the order of .1 siemens) but it may be due to disseminated material. The conductor at 4875E is very strong. Due to it being surrounded by a curious region of somewhat elevated overburden conductivity it is not possible to estimate the conductivity of the source. It lies within 15m of the surface and dips steeply to the west.

The dip is curious as it is in the opposite direction to the dip of the magnetic anomalies and the other two conductors. If it were not for this I would be inclined to put a narrow shallow conductor of this strength down to a carbonaceous source. The third conductor on this line lies at 5300E. It is only a small anomaly but persists strongly to the depth limits of the system. It dips at 75des. east and is at a depth of around 50m. Once again the small response of the conductor and the presence of more conductive overburden makes the accurate determination of these figures difficult. As the anomaly is associated with a small step in the magnetics it is most likely due to a fault and the depth to top may be related to water or weathering level.

RED ANOMALY

A strong conductive anomaly associated with a magnetic contact and a small magnetic peak can be seen at 5475E. From the magnetics it would be interpreted as just a fault but the strength of the conductor is too great for it to be due solely to a fault. Dip 70des. steepening at depth. Depth to

the top of the conductor is less than 15m but as it has considerable depth extent it would be perhaps better to test it at a greater depth, perhaps 30m. The slight offset of the response of the different frequencies is probably due to lateral variation in the conductivity of the source which is about 20m wide. There is another conductive anomaly at 5925E but this is shallow and narrow indicating just a local thickening of overburden or preferential weathering.

SALMON RIVER ANOMALY

The four Salmon River lines are covered by overburden of .01 Siemen conductivity all have a conductor on them. On all except the northernmost line it would have been preferable to have a bit more data to the east but the anomaly is clearly visible. The conductor on all lines is associated with a magnetic high which may indicate that it is directly correlatable. The magnetics indicates that the anomaly is related to a fault though it is perhaps not caused by it. Both the conductor and the magnetic feature are waning to the north and the body twists around to dip more shallowly to the east. The depth to top on line 5450E is 30m and the dip is 80deg. to the east. This is the best line with the best response. The source of the anomaly is not obvious though the it may be fault related. If there is any geochemical response along this trend then I would find it interesting. I would expect the geochemistry to be quite subdued because of the overburden and so a small anomaly would be interesting.

CONCLUSIONS AND RECOMMENDATIONS

The GENIE survey has been quite successful in locating areas which might be of interest but the data is not of sufficient complexity to enable the variety of possible conductive sources to be differentiated. Just considering the geophysical response the conductors of most interest are

- 1 Red 5475E
- 2 Green 4375E
- 3 Rose Blue 4725E

PAGE 6

4 Electric Blue 3850E

5 Green 4875E

6 Salmon River

Naturally quite a few of the others might be of interest in the light of other data but these are the ones that I would like to follow up preferably with additional lines to the sides before proceeding to drilling.

T. von Strokirch

APPENDIX 8

FRANKLAND RIVER PROSPECT

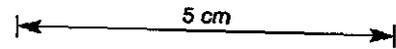
SAMPLE LEDGERS AND ASSAY RESULTS

CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL

SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION										BEDROCK						GEOLOGICAL OBSERVATIONS			
	EAST	NORTH	Zone/IS	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure	Rock Type	Alteration	Vis. Min	Min. Type 1		Min. Type 2	Look	Wt. Sec. 10
1142624	4325	5000	SS	-80A						40	Buff	C	R		40	SILT						0
625	4300									40	Buff-Or	C	R		40	SILT	FERG.					0
626	4275									50	Buff	C	R		50	SILT						0.06
627	4250									40	Buff	B	R									0
628	4225									70	Or-buff	C	R		70	SILT						0
629	4200									80	Or-buff	C	R		80	TFSH					Y	0.26
630	4175									80	Or-buff	C	R		80	SILT						0.02
631	4150									55	Or-brn	C	R		55	SILT						0
632	4125									75	Or.	C	R		75	SILT						0.06
633	4100									30	Pale buff	C	R		30	SILT	TALC					0
634	4075									60	Or-green	C	R		60	SILT						0.08
635	4050									50	Or.	C	R		50	SILT	TALC					0.2
636	4025									40	Pale buff	C	R		40	SILT						0
637	4000									80	Or-green	C	R		80	SILT						0.22
638	3975									100	Or-brn	C	R		100	SILT	TALC					0.16
639	3950									120	Or-gn	B	R									0.08
640	3925									75	Or-brn	C	R		75	SILT						0
641	3900									80	Or-gn	C	R		80	SILT						0
642	3875									20	red-buff	C	R		20	SILT	FERG.					0
643	3850									55	Or-gn	C	R		55	SILT						0.18
644	3825									75	Or-gn	C	R		75	SILT						0.18
645	3800									60	Or-brn	M	R			LATR						0.12
646	3775									100	Or-brn	C	R		100	SILT						0.02
647	3750									35	Or-brn	C	R		35	SILT						0.06
648	3725									100	Or-brn	B	R									0



PROJECT FRANKLAND R. PROSPECT 1:250000 SHEET BURNIE SK55-3 COLLECTED BY M. A. Chick DATE 13/3/84
 TENEMENT ROCKY CAPE EL 177 SAMPLE NO.S _____ LOCAL GRID CROSS REF 5000N/5000E 322141 5439210
 INVESTIGATION _____ DPO'S 30487



124

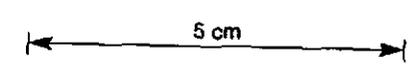
229124

CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL

SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS				
	EAST	NORTH	Zone/UG	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horiz. bed	Str. bed	Exposure	Depth to bedrock	Rock Type	Alteration		Vis. Min	Min. Type 1	Min. Type 2	Look
1142649	3700	5000	55-80A							80	lt. grey or	C	R		80	SILT.					0.1	
650	3675									120	grey	C	R		120	SILT	TALC				0	
651	3650									120	gn-or	bl	R								0	
652	3625									65	grey	C	R		65	SILT	TALC				0	
653	3600									90	lt. brown or-bm	C	R		90	SILT					1	Also quartz fragments.
654	3575									60	or-bm	C	R		60	SILT					0.3	
655	3550									65	lt. or-bm	C	R		65	SILT	TALC				0.04	
656	3525									80	buff-yn	C	R		80	SILT					0	
657	3500									80	lt. grey	C	R		80	SILT	TALC				0	
658	3475									45	lt. grey	C	R		45	SILT	TALC				0	
659	3450									110	lt. or	C	R		110	SILT	TALC				0	
660	3425									120	blue grey	bl	R								0	
661	3400									120	or	bl	R								0	
662	3375									100	lt. or-bm	C	R		100	SILT	FERR.				0.24	
663	3350									120	or	C	R		120	SILT					0	
664	3325									120	Yell.	bl	R								0.16	
668	3300									40	or-green	bl	R			LATR.					0	



PROJECT FRANKLAND R. PROSPECT 1:250000 SHEET BURNE SK 55-3 COLLECTED BY DJW A. Gick DATE 13/3/84
 TENEMENT ROCKY CAPE EL 177 SAMPLE NO.S _____ LOCAL GRID CROSS REF 8600N/500E 322141/5439210
 INVESTIGATION _____ DPO'S 30478 30487



125

229125

CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL

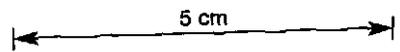
126

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS		
	EAST	NORTH	Zone/IS	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Rock Type	Alteration	Vis. Min	Min. Type 1		Min. Type 2	Look
1154261	5000	6500	L4	-80# H.A.	10	30	30	30	-	0.4		C	S		Silt (grey)						1. grey s. clay & grey shale.
262	4950				20	20	30	30	-	0.8		C			Silt (grey)						grey-brown s. clay & grey shale.
263	4900				20	20	30	30	-	0.6		C			Silt (grey)						grey s. clay & grey shale and brown s. clay & qtz gravel.
264	4850				10	20	30	30	10	0.6		A/B									DK brn s. clay & qtz gravel
265	4800				10	20	30	30	10	0.7		A/B									DK brown - black sandy clay & qtz gravel.
266	4750				10	20	30	30	10	0.7		B									DK brown - black sandy clay & qtz gravel.
267	4700				10	20	30	30	10	0.6		B									DK brown - black sandy clay & qtz gravel.
268	4650				10	20	30	30	10	0.7		B									DK brown sandy clay & qtz frag.
269	4600				10	20	35	35	-	1.0		B									grey sandy clay & qtz frags. & grey silt?
270	4550				10	20	35	35	-	0.5		C			Silt (grey)						grey-black sandy clay & qtz fragments
271	4500				5	15	40	40	-	0.7		B/C									grey-black sandy clay & qtz fragments.
272	4450				5	15	40	40	-	0.3		B/C									black sandy clay & qtz gravel.
273	4400				5	10	35	40	10	0.6		B									DK grey-brown - clay & qtz gravel.
274	4350				10	20	35	35	-	0.5		A/B									DK grey-black sandy clay & qtz gravel.
275	4300				10	30	30	30	-	0.7		B									DK grey sandy clay & qtz gravel.
276	4250				10	30	30	30	-	0.5		A									DK brown-black clay & minor qtz gravel.
277	4200				5	15	40	40	-	0.8		B									DK brown-black clays.
278	4150				-	20	40	40	-	0.5		B/C									Black sandy clay & black shale frags.
279	4100				20	20	30	30	-	0.8		C			BLSH.						DK brown-black clay
280	4050				-	20	40	40	-	0.6		B/C									DK brown-black clay.
281	4000				-	20	40	40	-	0.6		B									DK brown-black sandy clays.
282	3950				-	20	40	40	-	0.6		B/C									DK brown-black sandy clays.
283	3900				30	20	25	25	-	0.5		C			BLSH.						Black sandy clay & black shale frags.
284	3850				40	30	15	15	-	0.5		M?									1. grey sandy clay & qtz gravel.
285	3800				40	30	15	15	-	0.7		M?									1. grey sandy clay & qtz gravel.

PROJECT LINE 6500E
 TENEMENT ROCKY CAPE E-1/77
 INVESTIGATION FRANKLAND RIVER PROJECT

1:250000 SHEET BURNIE SX55-3
 SAMPLE NO.S 1154261-285
 DPO'S 31957

COLLECTED BY DM AC PM DATE Oct 84 1975
 LOCAL GRID CROSS REF



229126

CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					LOOK	GEOLOGICAL OBSERVATIONS		
	EAST	NORTH	Zone/UG	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Depth to Bedrock	Rock Type	Alteration	Vis. Min			Min. Type 1	Min. Type 2
1154286	3750	6500	L4	N.A.	40	30	15	15	-	0.6	-	1/2										1. grey sandy clay & qtz gravels.
287	3700				10	20	35	35	-	0.3		0/2				SILT (grey)						1. grey sandy clay & angular quartz.
288	3650				20	20	30	30	-	0.6		C				BLSH						Black sandy clay & black carb. shale dk brown-black sandy clay
289	3600				-	20	40	40	-	0.5		0/2				BLSH						black carbonaceous sandy clay & black shale fragments.
290	3650				20	20	30	30	-	0.6		C				BLSH						Black - dk grey sandy clay & qtz frags.
291	3500				5	15	40	40	-	0.6		0/2										brown-black clays & black shale fragments.
292	3450				10	20	35	35	-	0.5		C				BLSH						Black clays.
293	3400				-	20	30	50	-	0.8		B										dk green to br brn clays.
294	3350				-	20	40	40	-	0.7		B										
295	3300				20	20	20	20	-	0.7		C				BLSH						black sandy clays & carbonaceous black shale.
296	3250				20	20	30	30	-	0.6		C				BLSH						dk grey-black sandy clay & black shale frags.
297	3200				20	40	30	10	-	0.3		C				SILT (grey)						Grey sandy soil & angular qtz. poss. grey quartz.
298	3150				20	20	30	30	-	0.3		C				SILT						l. or brn / sandy clays & qtz & oilstone frags.
299	3100				10	30	30	30	-	0.6		0/2										and brown clay & sub angular qtz.
300	3075				10	20	35	35	-	0.4		C				SILT (buff)						l. buff sandy clay & buff oilstone fragments.
301	3050				5	20	30	45	-	1.3		B										dk brown sandy clay & ferricite fragments.
302	3000				-	20	40	40	-	0.6		0/2										buff - or brown sandy clay
303	3000				20	20	20	30	-	0.4		C				SILT (buff)						l. buff talose sandy clay & buff oilstone.
304	2975				10	20	35	35	-	0.4		C				SILT (buff)						buff sandy clay & buff oilstone.
305	2950				20	20	30	30	-	0.7		C				SILT (green)						l. or brn clays & l. green oilstone fragments.
306	2925				20	20	30	30	-	0.5		C				SILT						dk brown sandy clay & brown weathered oilstone.
307	2900				10	20	35	35	-	0.7		0/2										buff sandy clays & rounded quartz gravels.
308	2875				30	20	30	20	-	0.8		C				SILT (buff)						dk buff sandy clay & buff oilstone.
309	2850				20	20	30	30	-	0.7		C				SILT (buff)						Buff sandy clay & l. qtz & buff oilstone.
310	2825				20	20	30	30	-	0.8		C				SILT - QTZ?						Buff - dk brown sandy clays & l. qtz (ilk)?

PROJECT LINE 6500E1

1:25000 SHEET Frame SK55-3

COLLECTED BY JW AC PM DATE 01/84 28/5

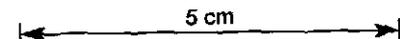
TENEMENT ROCKY CAVE EL 1/77

SAMPLE NO.S 1154286-310

LOCAL GRID CROSS REF

INVESTIGATION FRANKLAND RIVER PROSPECT

DPO's 31951



121

229121

CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS		
	EAST	NORTH	Zone/LS	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Rock Type	Alteration	Vis. Min	Min. Type 1		Min. Type 2	Look
1154311	2800	6500	L9	-80% H.A.	20	20	30	30	-	0.5	-	C	R		SILT (buff) P QTZT.						buff brown sandy clay & buff siltstone → 9/12s.
312	2775				20	20	30	30	-	0.5	-	C			QTZT?						grey-buff sandy clay & quartz fragments.
313	2750				20	20	30	30	-	0.4	-	C			SILT (grey)						buff brown sandy clay & grey siltstone.
314	2725				20	20	30	30	-	0.4	-	C			SILT (buff)						buff sandy clay & buff siltstone.
315	2700				10	20	35	35	-	0.8	-	B/C			SILT (buff)?						buff-brown sandy clay & v. weathered buff siltstone.
316	2675				-	20	40	40	-	0.6	-	B									DE brown sandy clay
317	2650				10	20	35	35	-	0.5	-	C	F		SILT (buff)						1. grey sandy clay & buff siltstone
318	2625				20	20	30	30	-	0.3	-	C			SILT						1. buff sandy clay & siltstone fragments
319	2600				20	20	30	30	-	0.5	-	C									
320	2575				20	20	30	30	-	0.9	-	C			SILT (green)						greenish-br s. clay & green siltstone
321	2550				20	20	30	30	-	0.4	-	C			SILT (buff)						white-buff s. clay & buff siltstone.
322	2525				20	20	30	30	-	0.5	-	C			SILT (buff)						As above
323	2500				20	20	30	30	-	0.5	-	C			SILT (buff)						As above
324	2475				20	20	30	30	-	0.5	-	C			SILT (green)						green-br-brown s. clay & green siltstone fragments.
325	2450				20	20	30	30	-	0.6	-	C			SILT (green)						green-brown s. clay & green siltstone.
326	2425				20	20	30	30	-	0.6	-	A									DE brown s. clays & 1-2mm qtz gravels
327	2400				10	20	35	35	-	0.4	-	C			SILT (buff)						DE brown-buff clays & buff siltstone
328	2375				10	20	35	35	-	0.4	-	A/C									1. buff sandy clay & qtz gravels.
329	2350				20	20	30	30	-	0.2	-	A									As above.
330	2325				10	20	35	35	-	0.5	-	C			SILT (buff)						buff talose s. clay & buff siltstone.
331	2300				10	20	35	35	-	0.4	-	A									buff-l. brown s. clay & qtz gravels 1-2mm
332	2275				10	20	35	35	-	0.2	-	A/C									1. buff sandy clay & 1-2mm qtz fragments
333	2250				10	20	35	35	-	0.7	-	C			SILT (green)						2. buff clays - greenish & green siltstone
334	2225				10	20	35	35	-	0.9	-	C			SILT (green)						1. or-brown clays & green siltstone.
335	2200				-	20	40	40	-	1.0	-	B/C									1. or-brown s. clay

PROJECT LINE 6500E

1:250000 SHEET Burnie SK 55-3

COLLECTED BY JW AC PM DATE Oct 84

395

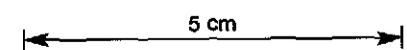
TENEMENT Rocky Cape 421/77

SAMPLE NO.S 1154311 - 335

LOCAL GRID CROSS REF

INVESTIGATION FRANKLAND RIVER PROMETU

DPO's 31957



128

229128

CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS		
	EAST	NORTH	Zone/G	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Rock Type	Alteration	Vis. Min	Min. Type 1		Min. Type 2	Look
1154336	2175	6500	L4	800 H.A.	10	20	35	55	-	1.0	-	C	R		SILT						1. or-brown s. clay + weathered siltstone. 2. greenish-or. clays.
337	2150				-	20	40	40	-	0.6		B									buff s. clays + buff siltstone
338	2125				20	20	30	30	-	0.3		C			SILT						buff s. clays + green siltstone
339	2100				20	20	30	30	-	0.3		C			SILT (green)						greenish-or s. clay + green siltstone.
340	2075				10	20	35	35	-	0.8		C			SILT (green)						mid brown s. clay + Faminele.
341	2050				20	20	30	30	-	0.3		B									1. buff-or s. clay, sh. talcose.
342	2025				-	20	40	40	-	1.0		B									2. or. talcose s. clay.
343	2000				-	20	40	40	-	1.0		B									whitish tan s. clay + siltstone.
344	1975				10	20	35	35	-	0.5		C			SILT						greenish-or clay + green siltstone fragments.
345	1950				20	20	30	20	-	0.7		C			SILT (green)						1. or-buff clays, sh. talcose + siltstone.
346	1925				20	20	30	30	-	0.3		C			SILT						buff-or sandy clay + green siltstone.
347	1900				10	20	35	35	-	0.7		C			SILT (green)						buff-or s. clays + green siltstone.
348	1875				20	20	30	30	-	0.5		C			SILT (green)						buff-or s. clays + green siltstone.
349	1850				20	20	30	30	-	0.4		C			SILT (green)						1. buff sandy clay.
350	1825				-	20	40	40	-	0.2		B									greyish green clay + green siltstone.
351	1800				30	10	30	30	-	0.4		C			SILT (green)						Orange s. clay + siltstone.
352	1775				10	20	35	35	-	0.2		C			SILT						Tan to or s. clays + hematitic silt frags.
353	1750				10	20	30	40	-	0.4		B/c			SILT						greenish-orange clays + green siltstone.
354	1725				20	20	30	30	-	0.6		C			SILT						greenish-or clay + green siltst frags.
355	1700				20	20	30	30	-	0.8		C			SILT (green)						greenish-or s. clay + green siltst frags.
356	1675				20	20	30	30	-	0.7		C			SILT (green)						1. greenish or s. clays, reddish streaks angular qtz + green siltstone.
357	1650				20	20	30	30	-	1.1		C			SILT (green)						buff-or s. clay + green siltstone fragments.
358	1625				30	20	25	25	-	0.3		C			SILT (green)						grey-or green s. clay + grey-green silt.
359	1600				20	20	30	30	-	0.9		C			SILT (green)						or green-grey to or s. clay.
360	1575				-	20	40	40	-	0.6		B/c									

PROJECT LINE 6500N

1:250000 SHEET Bonnie SK55-3

COLLECTED BY JFW AC PM DATE 04/84 495

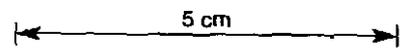
TENEMENT Rocky Cape EL 1177

SAMPLE NO.S 1154336-360

LOCAL GRID CROSS REF

INVESTIGATION FRANKLAND RIVER

DPO's 31957



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229129

CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET

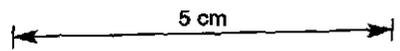
SL

130

SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION										BEDROCK					LOOKS	GEOLOGICAL OBSERVATIONS			
	EAST	NORTH	Zone/G	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure	Depth of Bedrock	Rock Type	Alteration			Vis. Min	Min. Type 1	Min. Type 2
1154361	1550	6500	L4	30# HA	20	40	40	-	0.7			4/2										greenish - or s. clay - grey patches.
362	1525				10	45	45	-	1.0			6/2										buff - or green s. clay.
363	1560				10	10	40	40	-	0.5		C				SMTL						DE grey - w/ s. clay & weathered grey shale.

229130

PROJECT LINE 6500E 1:250000 SHEET Burnie SK 55-3 COLLECTED BY DW Mc PM DATE Oct 84 ^{67/5}
 TENEMENT Rocky Cap EL 1/71 SAMPLE NO.S 1154361-363 LOCAL GRID CROSS REF
 INVESTIGATION FRANKLAND RIVER DPO'S 31957



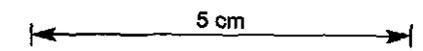
CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL 131

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS			
	EAST	NORTH	Zone/UG	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Depth to Bedrock	Rock Type	Alteration	Vis. Min		Min. Type 1	Min. Type 2	Look
1154160	4600	8000	15	80# H.A.	-	-	45	45	10	0.5	-	4/C	R			BLSH						Grey-black silty clay
161	4650				-	-	45	45	10	0.9	-	4/C				BLSH						Grey-black clay, sl. organic.
162	4500				20	50	15	15	-	0.7	-	4/B				QTZTK?						light grey sandy soil with sl. Jgd (sic) frags.
163	4450				-	10	45	45	-	0.9	-	C										Dk. brown clay & light brown patches.
164	4400				-	40	15	15	30	1.1	-	A										Dk brown-black organic rich clayey sand.
165	4350				-	40	15	15	30	0.9	-	A										As above.
166	4300				-	15	30	55	-	0.7	-	4/C										Dk brown sl. sandy clay.
167	4250				-	15	30	55	-	0.7	-	4/C				SILT						light brown clay, minor grey-black in weathered rock -> streak/siltstone.
168	4200				-	5	20	75	-	0.8	-	C				SILT						Li. buff, sl. greenish talcosy clay. -> green siltstone.
169	4150				20	40	10	30	-	0.5	-	A										brown clay & coarse 2cm angular quartz. & minor thin ggs -> lag gravel?
170	4100				20	40	10	30	-	0.9	-	A										brown-grey clay & coarse 2cm angular quartz lag gravel?
171	4075				50	20	-	30	-	0.7	-	B?										grey green clay overlain by lag gravel.
172	4050				5	35	-	60	-	0.7	-	4/C				SILT						pale greenish sandy clay overlain by lag gravel.
173	4025				10	45	45	-	-	0.3	-	C				SILT						pale grey-green sandy soil & weather. green siltstone fragments.
174	4000				10	45	-	45	-	1.0	-	C				BLSH						dk grey-black clayey soil & weathered black shale fragments.
175	3975				10	45	-	45	-	0.5	-	C				BLSH						As Above.
176	3950				-	20	30	50	-	0.7	-	C				SILT						greenish brown clay -> green siltstone.
177	3925				10	10	30	50	-	0.7	-	C				BLSH						grey-black clay & weathered black shale.
178	3900				10	40	10	40	-	0.6	-	C				grey silty.						pale grey sandy clay & weathered sl. grey siltstone -> silt fragments.
179	3875				10	10	40	40	-	0.6	-	C				BLSH						black clay, some whitish patches overlain by coarse lag gravel.
180	3850				10	10	40	40	-	0.7	-	C				BLSH						black clay & black shale fragments.
181	3825				-	-	35	60	5	0.9	-	4/C										grey-black clay, silty, pass organic.
182	3800				-	-	40	60	-	0.8	-	C				BLSH						black clay, sl. silty, & black shale fragments.
183	3775				15	10	30	45	-	0.8	-	C				BLSH						grey black clay, sl. brownish black shale fragments.
184	3750				10	15	30	45	-	1.1	-	C				BLSH						As Above.

PROJECT LINE 8000N 1:250000 SHEET BURNIE SK 55-3 COLLECTED BY DW. AC, PM DATE OCT 84
 TENEMENT ROCKY CAFE EL 1/77 SAMPLE NO.S 1154160 - 184 LOCAL GRID CROSS REF
 INVESTIGATION FRANKLAND R. PROJECT DPO'S 31957



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CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

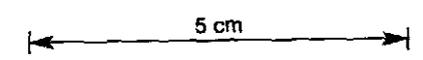
SL

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SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS				
	EAST	NORTH	Zone/IG	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Bk	Exposure Type	Soil to bedrock	Rock Type	Alteration		Vis. Min	Min. Type 1	Min. Type 2	Look
1154185	3725	8000	L4	H.A.	15	10	36	45	-	0.8		B/L	R			BLSH						gray-bl clays ol. brownish. minor qtz gravels. → BLSH
186	3700				10	10	36	50	-	0.6		B/L				BLSH						As above.
187	3675				15	5	30	40	-	0.6		B/L										med gray clays + 1-2mm qtz fragments.
188	3650				20	20	20	40	-	0.7		C				SILT						dy-greenish clay + green oolitic fragments.
189	3625				20	20	20	40	-	1.2		B/L										gray-black clays + qtz gravels.
190	3600				5	15	20	80	20	0.7		A										gray-brown black organic silty clay.
191	3575				5	15	20	40	10	0.9		B/L										gray brown silty clay + qtz gravels.
192	3550				-	5	30	65	-	1.0		B/L				BLSH?						black clays, possible black shale fragment
193	3525				5	10	20	50	15	1.2		A										Silty brown clays, minor quartz gravel.
194	3500				5	10	20	65	-	1.2		C				BLSH						Black clay + ferrug. partings. - bl. shale fragments.
195	3475				15	10	30	40	5	1.0		B/L										brown-black clays + quartz gravels.
196	3450				20	20	20	30	10	0.5		A										brown-black clays + quartz gravels.
197	3425				30	10	10	-	-	0.7		C				BLSH						gray-black v. weathered shale.
198	3400				30	-	20	-	-	0.5		C				SILT/BLSH?						dk green-brown weathered shale/SILT?
199	3375				-	10	30	50	10	1.0		B										dk gray-black clays, ol. organic.
200	3350				15	15	20	30	20	0.5		A										black organic rich clay + qtz gravels.
201	3325				-	10	30	50	10	0.7		B										black clays, ol. organic.
202	3300				-	10	30	50	10	1.0		B										brown-black clay.
203	3275				5	30	20	40	-	0.8		B/L				SILT?(buff)						light gray-buff talcose? clay - sandy.
204	3250				5	20	25	50	-	0.5		B/L										buff dk brown sandy clay.
205	3225				15	20	25	40	-	0.5		C				SILT (buff)						dk brown sandy clay + buff oolitic / talcose fragments.
206	3200				10	30	30	30	-	0.8		B/L										pale buff - med brown sandy clay.
207	3175				20	30	20	30	-	0.5		C				SILT (buff)						dk brown sandy clay + qtz gravels + buff oolitic.
208	3150				20	30	20	30	-	0.7		C				SILT (buff)						buff brown sandy clay + qtz gravels + buff oolitic.
209	3125				60	40	-	-	-	0.3		OC				SILT (buff)						weathered buff oolitic + minor qtz.

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PROJECT LINE 8000N 1:250000 SHEET BURNIE 8E 55-3 COLLECTED BY DJM AC PM DATE Oct 84
 TENEMENT Rocky Cape EL 1/77 SAMPLE NO.S 1154185-209 LOCAL GRID CROSS REF _____
 INVESTIGATION FLANKLAND RIVER PROSPECT DPO'S 31957



CRA EXPLORATION PTY LIMITED

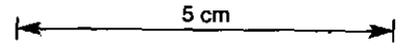
SOIL SAMPLE FIELD SHEET.

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133

SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS				
	EAST	NORTH	Zone/IS	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Depth to Bedrock	Rock Type	Alteration		Vis. Min	Min. Type 1	Min. Type 2	Look
1154200	3100	8000	L9	80% H.A.	40	40	10	10	-	0.4		C	R			SILT (buff)						L. buff sandy soil, buff siltst. frags
211	3075				40	40	10	10	-	0.3		M/c										buff sandy soil & angular quartz.
212	3050				40	40	10	10	-	0.4		M/c										buff sandy soil & angular qtz & gneiss.
213	3025				10	30	30	30	-	0.4		C				SILT (buff)						buff brown st. talcose sandy clay.
214	3000				10	30	30	30	-	0.8		C				SILT (buff)						As above.
215	2975				-	30	30	40	-	0.4		B/c										As above.
216	2950				20	20	20	20	10	0.2		C				SILT (buff)						grey-buff sandy clay & angular qtz.
217	2925				80	20	-	-	-	0.3		C				SILT (grey)						buff brown sandy soil & grey siltst. fragments.
218	2900				-	10	20	50	20	0.2		M/c										buff clays & organic humus.
219	2875				20	20	30	30	-	0.4		C				SILT (buff)						L. buff sandy clay & buff siltst. frags.
220	2850				20	20	30	30	-	0.4		C				SILT (grey)						brown clays & grey siltstone frags.
221	2825				10	30	30	30	-	0.7		B/c										buff brown sandy clays.
222	2800				30	20	-	-	50	0.2		M/c				SILT (buff)						brown humus & weathered buff siltstone.
223	2775				30	30	10	30	-	0.3		C				SILT (buff)						buff sandy clays.
224	2750				30	30	10	30	-	0.4		C				SILT						buff sandy clay.
225	2725				10	30	30	30	-	0.4		B/c				SILT						As above.
226	2700				10	30	30	30	-	0.7		B/c										L. or-brown sandy soil, st. fragments.
227	2675				-	20	40	40	-	0.7		B										buff-brown clays.
228	2650				-	10	45	45	-	1.2		b.										Tan sandy clay.
229	2625				-	20	40	40	-	0.5		b										buff sandy clay.
230	2600				30	30	20	20	-	0.3		C				SILT (buff)						As above & weathered buff siltstone.
231	2575				30	30	20	20	-	0.6		C				SILT (buff)						white-buff talcose clays & siltstone fragments.
232	2550				20	30	20	30	-	0.3		C				SILT						grey-buff sandy soil & siltstone frags.
233	2525				20	30	20	30	-	0.4		C				SILT						As above.
234	2500				10	30	30	30	-	1.0		C				SILT (green)						green-brown clays & greenish siltstone fragments.

PROJECT LINE 8000N 1:250000 SHEET DURINE SR 55-3 COLLECTED BY DPW AC PM DATE OCT 84 3075
 TENEMENT Rocky Cape EL 1/77 SAMPLE NO.S 1154210-234 LOCAL GRID CROSS REF
 INVESTIGATION FRANKLAND RIVER PROJECT DPO'S 31957



CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL

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SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION								BEDROCK						GEOLOGICAL OBSERVATIONS				
	EAST	NORTH	Zone/UG	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Moisture %	Rock Type	Alteration		Vis. Min	Min. Type 1	Min. Type 2	Look
1154235	2475	8000	4g	Soil H.A.	20	20	20	30	-	0.9		C	R			SILT (green)						greenish brown sandy clays & weathered green siltstone.
236	2450				30	20	20	30	-	0.6		C				SILT (green)						green-buff sandy clay & green laminated siltstone.
237	2425				-	20	40	40	-	1.1		B										brown clays.
238	2400				40	20	20	20	-	0.6		C				SILT (green)						green-buff weathered siltstone.
239	2375				10	30	30	30	-	0.4		A										grey-brown clays & qtz gravels.
240	2350				-	30	30	40	-	0.8		B										buff brown clays.
241	2325				10	30	30	30	-	1.0		C				SILT (green)						greenish-buff clays & green siltstone.
242	2300				-	30	30	40	-	0.8		B/C										Tan to dk. brown sandy clays.
243	2275				-	20	40	40	-	0.5		B										As above.
244	2250				10	10	40	40	-	0.3		B										yellow-buff clays & minor gravels.
245	2225				-	20	40	40	-	0.3		B										buff-br brown clays.
246	2200				30	20	20	30	-	0.2		C				SILT (buff)						buff-brown weathered siltstone.
247	2175				10	30	30	30	-	0.3		M/B										Brown silty clay & qtz gravels.
248	2150				20	20	40	40	-	0.3		C				SILT (green)						buff to brown clays & weathered siltstone fragments.
249	2125				40	20	20	20	-	0.4		C				SILT						brown clay & whitish siltstone frags.
250	2100				40	20	20	20	-	0.4		C				SILT (grey)						grey weathered siltstone.
251	2075				40	20	20	20	-	0.5		C				BLSH						grey-black clays & black shale frags.
252	2050				30	20	20	30	-	0.6		C				SILT						grey sandy sil & grey chert & qtz frags.
253	2025				30	20	20	30	-	0.4		C				BLSH						grey-black clays & black shale fragments.
254	2000				20	20	30	30	-	0.3		C				SILT						dk. brownish grey clay & black siltstone fragments.
255	1975				30	10	30	30	-	0.7		C				SILT						grey clay & weathered grey shale.
256	1950				20	20	30	30	-	0.3		C				BLSH						grey-bl sandy clays & weather. bl. shale fragments.
257	1925				30	20	20	30	-	0.4		C				SILT						dk grey clay & weather. shale frags.
258	1900				20	20	30	30	-	0.3		C				SILT						As above.
259	1875				10	30	30	30	-	0.3		B/C										grey-black clays & minor qtz gravels.

PROJECT LINE 8000N

1:250000 SHEET BURNIE SESS-3

COLLECTED BY DJM AC PM DATE Oct 84 475

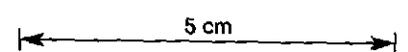
TENEMENT ROCKY CAPE EL 1/77

SAMPLE NO. 5 1154235-259

LOCAL GRID CROSS REF

INVESTIGATION FRANKLAND RIVER PROSPECT

DPO's 31957



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229106

Australian Laboratory Services PTY. LTD.

Incorporated in Queensland

CONSULTING ANALYTICAL CHEMISTS

Office & Laboratory

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

LABORATORY REPORT

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

Page 1 of 6

Batch Number: E076

Contact: MR. J. WEIR

No. of Samples: 64
Date Received: 14/05/84
Date Completed: 28/05/84

Order No. 30487 Sample Type: SOILS -80#

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1142601		10	<5	35	10	<5
1142602		<2	<5	10	10	<5
1142603		2	<5	20	5	<5
1142604		<2	<5	10	<5	<5
1142605		N.R.	N.R.	N.R.	N.R.	N.R.
1142606		<2	<5	15	<5	<5
1142607		5	<5	20	15	<5
1142608		20	5	60	145	10
1142609		5	10	45	370	10
1142610		5	<5	70	155	10
1142611		5	<5	40	590	5
1142612		5	<5	50	340	10
1142613		5 ✓	<5	45	230	10
1142614		10	<5	65	85	15
1142615		2	<5	120	80	25
1142616		2	<5	30	85	10
1142617		2	<5	35	380	5
1142618		2 ✓	<5	35	490	5
1142621		5	<5	40	270	10
1142622		2	<5	35	490	5
1142623		2	<5	20	650	<5
1142624		2	<5	45	320	10
1142625		20 ✓	<5	55	370	10
1142626		2	<5	55	145	10
1142627		<2	<5	30	165	5
1142628		<2	<5	60	135	10
1142629		<2	<5	85	45	15
1142630		<2	<5	80	200	15
1142631		2	<5	55	95	10
1142632		<2	<5	50	115	10
Detection Limit:		2 ✓	5 ✓	2 ✓	5	5

Comments:



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Signatory: *[Signature]*

Australian Laboratory Services PTY. LTD.

CONSULTING ANALYTICAL CHEMISTS

LABORATORY REPORT

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Telex: ALSEV 42344

Incorporated
in Queensland

Page 2 of 6

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

Batch Number: E076

Contact: MR. J. WEIR

No. of Samples: 64
Date Received: 14/05/84
Date Completed: 28/05/84

Order No. 30487

Sample Type: SOILS -80#

SAMPLE NUMBER	Element Unit Method	Fe	Mn	As	Ag	Sn
		% IC580	ppm IC580	ppm IC580	ppm IC580	ppm XRF 1A
1142601		1.33	150	3	<1	5
1142602		0.20	10	2	<1	<5
1142603		0.90	45	4	<1	5
1142604		0.21	10	2	<1	<5
1142605		N.R.	N.R.	N.R.	N.R.	N.R.
1142606		0.35	15	2	<1	<5
1142607		0.80	50	5	1	<5
1142608		3.41	250	18	1	<5
1142609		2.42	200	8	1	<5
1142610		4.70	310	12	1	5
1142611		2.08	145	8	1	<5
1142612		3.70	250	10	1	<5
1142613		3.80	230	16	1	<5
1142614		5.82	115	16	1	<5
1142615		5.55	560	6	1	<5
1142616		4.25	130	9	1	<5
1142617		2.62	90	4	1	<5
1142618		1.95	70	4	<1	<5
1142621		4.73	75	7	1	<5
1142622		3.37	65	6	1	<5
1142623		1.10	55	2	<1	<5
1142624		3.78	130	1	1	<5
1142625		4.16	170	4	1	<5
1142626		4.34	150	5	1	<5
1142627		1.99	70	2	1	<5
1142628		4.28	155	4	1	<5
1142629		6.02	175	2	1	<5
1142630		5.49	130	5	1	<5
1142631		4.67	130	4	1	<5
1142632		5.23	190	4	1	<5
Detection Limit:		10	5	1	1	5

Comments:



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LABORATORY REPORT

Page 3 of 6

Client: CRA EXPLORATION PTY. LIMITED
Address: P.O. BOX 138
ROSHY PARK, TAS. 7018

*Frankland
River prospect*

Batch Number: E076

Contact: MR. J. WEIR

No. of Samples: 64
Date Received: 14/05/84
Date Completed: 28/05/84

Order No. 30487

Sample Type: SOILS - 80#

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1142633		5	<5	45	320	10
1142634		5	<5	50	80	10
1142635		10	<5	85	105	15
1142636		2	<5	55	155	10
1142637		10 ✓	<5	65	60	10
1142638		5	<5	25	20	<5
1142639		5	<5	60	110	10
1142640		5	<5	85	160	10
1142641		10	<5	80	70	15
1142642		10	<5	55	400	10
1142643		15	<5	90	140	15
1142644		10	<5	60	80	10
1142645		15 ✓	<5	55	155	10
1142646		5	<5	90	145	15
1142647		2	<5	55	110	10
1142648		10	<5	110	105	20
1142649		10	<5	70	70	15
1142650		5 ✓	<5	70	55	15
1142651		10	<5	90	55	15
1142652		<2	<5	75	100	15
1142653		5	<5	40	75	5
1142654		5	<5	70	150	10
1142655		<2	<5	55	75	15
1142656		<2	<5	75	135	10
1142657		<2	<5	60	40	5
1142658		2 ✓	<5	65	70	5
1142659		2 ✓	<5	55	50	10
1142660		2 ✓	<5	80	55	10
1142661		10	<5	40	50	5
1142662		5	<5	65	50	5
Detection Limit:		2 ✓	5 ✓	2	5	5

Comments:



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ent: CRA EXPLORATION PTY. LIMITED
 address: P.O. BOX 138
 ROSHY PARK. TAS. 7018

Batch Number: E076

oject: MR. J. WEIR

No. of Samples: 64
 Date Received: 14/05/84
 Date Completed: 28/05/84

order No. 30487

Sample Type: SOILS -80#

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580	Sn ppm XRF 1A
1142633		2.23	95	3	1	5
1142634		3.33	210	4	1	<5
1142635		4.27	500	4	1	5
1142636		2.60	290	3	<1	<5
1142637		2.23	310	4	<1	<5
1142638		0.99	10	2	<1	<5
1142639		2.41	290	3	1	<5
1142640		2.79	195	4	1	<5
1142641		3.01	360	3	1	<5
1142642		3.04	175	4	1	<5
1142643		4.07	500	2	1	<5
1142644		2.14	300	<1	<1	<5
1142645		3.54	210	3	1	<5
1142646		4.09	470	3	1	<5
1142647		2.96	240	1	1	<5
1142648		4.15	640	2	1	<5
1142649		3.13	410	2	1	<5
1142650		2.46	500	2	1	<5
1142651		3.85	490	3	1	<5
1142652		4.52	560	2	1	<5
1142653		1.80	210	3	<1	<5
1142654		5.43	470	6	1	<5
1142655		4.91	300	4	1	<5
1142656		5.39	720	7	1	5
1142657		3.70	660	4	1	<5
1142658		3.21	550	3	<1	<5
1142659		2.95	175	5	1	<5
1142660		4.02	470	6	1	<5
1142661		6.29	330	28	1	<5
1142662		5.58	720	18	1	<5
Detection Limit:		10	5 ✓	1	1	5

Comments:



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

Batch Number: **E076**

Contact: **MR. J. WEIR**

No. of Samples: **64**
Date Received: **14/05/84**
Date Completed: **28/05/84**

Order No. **30487**

Sample Type: **SOILS -80#**

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1142663		15	<5	35	45	5
1142664		5	<5	35	45	<5
1142668		5	<5	25	180	<5
1143000		20	<5	65	20	15
<i>Chapman Sampling</i>						
Detection Limit:		2 ✓	5 ✓	2 ✓	5	5

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CRA EXPLORATION PTY. LIMITED
P.O. BOX 138
ROSNY PARK. TAS. 7018

Batch Number: E076

MR. J. WEIR

No. of Samples: 64
Date Received: 14/05/84
Date Completed: 28/05/84

30487

Sample Type: SOILS -80#

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580	Sn ppm XRF 1A
1142663		3.69	300	12	1	<5
1142664		3.17	190	12	<1	<5
1142668		3.91	30	12	<1	<5
1143000		15.9	145	2	2	<5
Detection Limit:		10	5	1	1	5

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

Batch Number: E076-1

Contact: MR. J. WEIR

No. of Samples: 64
Date Received: 14/05/84
Date Completed: 29/05/84

Order No. 30487 Sample Type: SOILS -80#

SAMPLE NUMBER	Element Unit Method	W ppm XRF 1A	Ba ppm XRF 1A		
1142601		30	170		
1142602		10	190		
1142603		<10	360		
1142604		<10	260		
1142605		N.R.	N.R.		
1142606		10	570		
1142607		50	210		
1142608		10	560		
1142609		40	510		
1142610		10	670		
1142611		50	280		
1142612		20	540		
1142613		20	560		
1142614		10	670		
1142615		<10	490		
1142616		<10	480		
1142617		30	370		
1142618		40	300		
1142621		20	540		
1142622		20	430		
1142623		40	270		
1142624		30	440		
1142625		20	450		
1142626		10	580		
1142627		20	450		
1142628		20	530		
1142629		<10	570		
1142630		10	620		
1142631		10	600		
1142632		20	470		
Detection Limit:		10	10		

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Client: CRA EXPLORATION PTY. LIMITED
Address: P.O. BOX 138
ROSHY PARK, TAS. 7018

Batch Number: E076-1

Contact: MR. J. WEIR

No. of Samples: 64
Date Received: 14/05/84
Date Completed: 29/05/84

Order No. 30487

Sample Type: SOILS -80#

SAMPLE NUMBER	Element Unit Method	W ppm XRF 1A	Ba ppm XRF 1A			
1142633		40	460			
1142634		<10	660			
1142635		10	650			
1142636		20	510			
1142637		10	610			
1142638		<10	850			
1142639		<10	530			
1142640		10	560			
1142641		10	770			
1142642		40	490			
1142643		10	620			
1142644		<10	660			
1142645		20	560			
1142646		10	760			
1142647		10	590			
1142648		10	680			
1142649		10	580			
1142650		10	550			
1142651		10	580			
1142652		<10	610			
1142653		<10	480			
1142654		<10	680			
1142655		<10	560			
1142656		<10	610			
1142657		<10	850			
1142658		<10	660			
1142659		<10	570			
1142660		<10	440			
1142661		<10	820			
1142662		<10	730			
Detection Limit:		10	10			

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Address: P.O. BOX 138
ROSNY PARK, TAS. 7018

Batch Number: E076-1

Contact: MR. J. WEIR

No. of Samples: 64
Date Received: 14/05/84
Date Completed: 29/05/84

Order No. 30487

Sample Type: SOILS -80#

SAMPLE NUMBER	Element Unit Method	W ppm XRF 1A	Ba ppm XRF 1A			
1142663		<10	690			
1142664		<10	610			
1142668		10	290			
1143000		<10	350			
Detection Limit:		10	10			

Comments:



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Page 1 of 14

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

Batch Number: K216

Contact: MR. J. WEIR

No. of Samples: 204
Date Received: 31/10/84
Date Completed: 09/11/84

Order No. D.P.O. 31957

Sample Type: SOIL

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1154160		10 ✓	10	15	<5	<5
1154161		5 ✓	20	45	10	<5
1154162		2	5	10	<5	<5
1154163		2	5	15	10	<5
1154164		2	<5	10	<5	<5
1154165		2	<5	5	<5	<5
1154166		2	<5 ✓	5	<5	<5
1154167		2	5	10	<5	<5
1154168		2 ✓	5	5	<5	<5
1154169		5	20	15	<5	<5
1154170		5	10	15 ✓	<5	<5
1154171		5	15	10	<5	<5
1154172		10	15	20	5	<5
1154173		5	10	35	<5	<5
1154174		15	30	60	<5	<5
1154175		2 ✓	10	15	<5	<5
1154176		5 ✓	10	10	<5	<5
1154177		25 ✓	15 ✓	15	10	<5
1154178		2	10	10	<5	<5
1154179		2	10	10	<5	<5
1154180		2	10	10	<5	<5
1154181		5	10	10	<5	<5
1154182		5	30	10 ✓	<5	<5
1154183		5	20	15	10	<5
1154184		25	30 ✓	20	5	<5
1154185		5	15	5	<5	<5
1154186		5	20	10	<5	<5
1154187		5	20	10	<5	<5
1154188		20	35	20	5	<5
1154189		10 ✓	30 ✓	15	5	<5
Detection Limit:		2 ✓	5 ✓	2 ✓	5	5

Comments:

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

Batch Number: K216

Contact: MR. J. WEIR

No. of Samples: 204
Date Received: 31/10/84
Date Completed: 09/11/84

Order No. D.P.O. 31957

Sample Type: SOIL

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580
1154160		0.20	20	2	<1
1154161		0.97	40	1	<1
1154162		0.05	<5	2	<1
1154163		0.07	<5	<1	<1
1154164		0.03	5	1	<1
1154165		0.03	<5	1	<1
1154166		0.05	<5	1	<1
1154167		0.04	<5	<1	<1
1154168		0.07	<5	<1	<1
1154169		0.24	130	2	<1
1154170		0.15	10	<1	<1
1154171		0.16	5	2	<1
1154172		0.56	20	<1	<1
1154173		1.63	50	5	<1
1154174		0.43	15	2	<1
1154175		0.52	15	<1	<1
1154176		0.26	5	<1	<1
1154177		0.13	<5	4	<1
1154178		0.08	<5	2	<1
1154179		0.09	<5	<1	<1
1154180		0.21	10	<1	<1
1154181		0.08	<5	<1	<1
1154182		0.12	<5	4	<1
1154183		0.35	15	2	<1
1154184		0.31	15	7	<1
1154185		0.07	<5	1	<1
1154186		0.10	5	<1	<1
1154187		0.16	10	4	<1
1154188		1.41	35	1	<1
1154189		0.55	5	3	<1
Detection Limit:		0.01 ✓	5 ✓	1 ✓	1

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Address: LEVEL 4, BELLERIVE QUAY,
CAMBRIDGE ROAD,
BELLERIVE, TAS. 7018

Batch Number: K216

Contact: MR. J. WEIR

No. of Samples: 204
Date Received: 31/10/84
Date Completed: 09/11/84

Order No. D.P.O. 31957

Sample Type: SOIL

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1154190		5	15	10	<5	<5
1154191		20	25	20	<5	<5
1154192		10	15	20	<5	<5
1154193		15	30	15	<5	<5
1154194		10	20	20	5	<5
1154195		10	20	20	10	<5
1154196		15 ✓	20	15	<5	<5
1154197		5	20 ✓	30	<5	<5
1154198		45	35	45	15	<5
1154199		15	35	25	10	<5
1154200		10	20	10	<5	<5
1154201		10	25	10	<5	<5
1154202		105 ✓	90	75	80	60
1154203		5	10	10	<5	<5
1154204		5	10	15	<5	<5
1154205		5	10	15	<5	<5
1154206		5	10 ✓	10	<5	<5
1154207		10	15	15	<5	<5
1154208		10	15	10	<5	<5
1154209		2	<5	5 ✓	<5	<5
1154210		2	5	10	<5	<5
1154211		2	<5 ✓	10	<5	<5
1154212		2 ✓	10	10	5	<5
1154213		10	20	20	<5	<5
1154214		2	10	10	<5	<5
1154215		2	<5	10	<5	<5
1154216		<2	<5	10	<5	<5
1154217		<2	15	10	<5	<5
1154218		5	20	25	<5	<5
1154219		5	10	25	<5	<5
Detection Limit:		2 ✓	5 ✓	2 ✓	5	5

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Client: CRA EXPLORATION PTY. LIMITED
Address: LEVEL 4, BELLERIVE QUAY,
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BELLERIVE, TAS. 7018

Batch Number: K216

Contact: MR. J. WEIR
Order No. D.P.O. 31957

Sample Type: SOIL

No. of Samples: 204
Date Received: 31/10/84
Date Completed: 09/11/84

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580	
1154190		0.16	5	<1	<1	
1154191		0.78	35	3	<1	
1154192		0.33	20	2	<1	
1154193		0.13	10	2	<1	
1154194		1.23	50	4	<1	
1154195		0.21	15	<1	<1	
1154196		0.33	25	1	<1	
1154197		0.16	10	<1	<1	
1154198		5.04	420	20	1	
1154199		0.34	60	1	<1	
1154200		0.15	15	1	<1	
1154201		0.12	10	2	<1	
1154202		3.29	55	105	<1	
1154203		0.10	5	4	<1	
1154204		0.10	5	1	<1	
1154205		0.29	30	2	<1	
1154206		0.14	10	<1	<1	
1154207		0.16	10	2	<1	
1154208		0.22	10	1	<1	
1154209		0.08	<5	<1	<1	
1154210		0.21	5	1	<1	
1154211		0.06	<5	<1	<1	
1154212		0.25	5	<1	<1	
1154213		0.64	30	1	<1	
1154214		0.24	10	<1	<1	
1154215		0.12	10	1	<1	
1154216		0.06	<5	1	<1	
1154217		0.22	20	4	<1	
1154218		0.52	30	5	<1	
1154219		0.26	25	5	<1	
Detection Limit:		0.01 ✓	5 ✓	1 ✓	1	

Comments:



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

Batch Number: K216

Contact: MR. J. WEIR
Order No. D.P.O. 31957

No. of Samples: 204
Date Received: 31/10/84
Date Completed: 09/11/84

Sample Type: SOIL

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1154220		5	10	10	10	<5
1154221		5	10	10	<5	<5
1154222		5	10	10	5	<5
1154223		10	10	10	<5	<5
1154224		2	10	10	10	<5
1154225		<2	10	5	<5	<5
1154226		10	20	15	10	<5
1154227		5	10	10	<5	<5
1154228		2	10	10	<5	<5
1154229		2	10	10	<5	<5
1154230		<2	5	<2	<5	<5
1154231		2	15	15	5	<5
1154232		2	15	15	<5	<5
1154233		2	10	10	<5	<5
1154234		2	15	35	10	10
1154235		25	15	50	20	10
1154236		5	15	40	20	5
1154237		2	10	25	10	<5
1154238		2	10	35	30	5
1154239		2	10	15	15	<5
1154240		<2	10	10	<5	<5
1154241		5	25	35	10	<5
1154242		2	15	40	10	<5
1154243		2	10	15	10	<5
1154244		2	10	10	5	<5
1154245		2	10	10	5	<5
1154246		2	10	10	15	<5
1154247		2	10	15	5	<5
1154248		2	<5	10	10	<5
1154249		2	<5	10	<5	<5
Detection Limit:		2	5	2	5	5

Comments:



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CONSULTING ANALYTICAL CHEMISTS

LABORATORY REPORT

Page 6 of 14

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

Batch Number: K216

Contact: MR. J. WEIR

No. of Samples: 204
Date Received: 31/10/84

Order No. D.P.O. 31957

Sample Type: SOIL

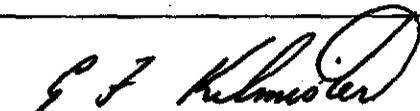
Date Completed: 09/11/84

SAMPLE NUMBER	Element Unit Method	Fe	Mn	As	Ag
		% IC580	ppm IC580	ppm IC580	ppm IC580
1154220		0.23	15	5	<1
1154221		0.09	<5	3	<1
1154222		0.09	<5	3	<1
1154223		0.32	<5	4	<1
1154224		0.14	<5	4	<1
1154225		0.19	<5	2	<1
1154226		0.92	60	2	<1
1154227		0.27	15	3	<1
1154228		0.11	5	4	<1
1154229		0.13	<5	3	<1
1154230		<0.01	<5	3	<1
1154231		0.74	55	5	<1
1154232		0.52	15	3	<1
1154233		0.25	5	3	<1
1154234		1.39	175	4	<1
1154235		1.43	200	4	<1
1154236		1.52	260	4	<1
1154237		0.60	95	3	<1
1154238		1.04	185	3	<1
1154239		0.42	50	4	<1
1154240		0.35	30	3	<1
1154241		1.28	170	2	<1
1154242		1.38	155	3	<1
1154243		0.52	50	3	<1
1154244		0.13	10	4	<1
1154245		0.24	20	3	<1
1154246		0.26	45	4	<1
1154247		0.52	90	4	<1
1154248		0.23	25	<1	<1
1154249		0.18	60	<1	<1
Detection Limit:		0.01	5 ✓	1 ✓	1

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

Batch Number: K216

Contact: MR. J. WEIR

No. of Samples: 204

Date Received: 31/10/84

Order No. D.P.O. 31957

Sample Type: SOIL

Date Completed: 09/11/84

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1154250		<2	15	10	<5	<5
1154251		5	10	10	<5	<5
1154252		<2	15	10	<5	<5
1154253		2	<5	20	<5	<5
1154254		2	<5	5	<5	<5
1154255		2	<5	5	10	<5
1154256		10	15	45	10	<5
1154257		2	10	10	5	<5
1154258		2	5	10	10	<5
1154259		2	5	10	10	<5
1154260		10	15	70	20	5
1154261		2	5	5	<5	<5
1154262		<2	<5	5	5	<5
1154263		2	<5	5	5	<5
1154264		2	<5	2	<5	<5
1154265		2	<5	5	<5	<5
1154266		2	10	5	5	<5
1154267		<2 ✓	20	5	<5	<5
1154268		2.	10	5	<5	<5
1154269		2.	10 ✓	5	5	<5
1154270		2.	5	5	5	<5
1154271		2.	5	10	<5	<5
1154272		2.	<5	5	<5	<5
1154273		5.	10 ✓	15	10	<5
1154274		2.	15	5	<5	<5
1154275		2.	10	15	5	<5
1154276		2.	10	10	5	<5
1154277		2.	5	5	5	<5
1154278		5	10	10	5	<5
1154279		2	15	10	<5	<5
Detection Limit:		2 ✓	5 ✓	2 ✓	5	5

Comments:



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

Batch Number: K216

Contact: MR. J. WEIR

No. of Samples: 204
Date Received: 31/10/84
Date Completed: 09/11/84

Order No.: D.P.O. 31957

Sample Type: SOIL

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580
1154250		0.31	35	2	<1
1154251		0.23	10	<1	<1
1154252		0.18	10	<1	<1
1154253		0.22	5	<1	<1
1154254		0.11	<5	<1	<1
1154255		0.25	<5	3	<1
1154256		2.88	70	9	<1
1154257		0.22	5	<1	<1
1154258		0.19	5	<1	<1
1154259		0.42	20	<1	<1
1154260		5.69	350	10	<1
1154261		0.13	10	<1	<1
1154262		0.08	<5	<1	<1
1154263		0.09	<5	<1	<1
1154264		0.03	<5	<1	<1
1154265		0.19	<5	<1	<1
1154266		0.14	5	6	<1
1154267		0.09	<5	<1	<1
1154268		0.13	<5	<1	<1
1154269		0.31	10	<1	<1
1154270		0.19	5	<1	<1
1154271		0.08	<5	<1	<1
1154272		0.08	<5	<1	<1
1154273		0.10	<5	<1	<1
1154274		0.07	<5	<1	<1
1154275		0.18	5	<1	<1
1154276		0.11	5	3	<1
1154277		0.05	<5	<1	<1
1154278		0.07	<5	<1	<1
1154279		0.05	<5	<1	<1
Detection Limit:		0.01 ✓	5 ✓	1 ✓	1

Comments:



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

Batch Number: **K216**

Contact: **MR. J. WEIR**

No. of Samples: **204**
Date Received: **31/10/84**
Date Completed: **09/11/84**

Order No. **D.P.O. 31957**

Sample Type: **SOIL**

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1154280		2	25	5	<5	<5
1154281		10	15	15	<5	<5
1154282		10	15	20	<5	<5
1154283		2	<5	5	<5	<5
1154284		2	5	5	10	<5
1154285		<2	5	5	<5	<5
1154286		2	5	5	<5	<5
1154287		2	5	5	<5	<5
1154288		2	40	5	5	<5
1154289		5	30	10	<5	<5
1154290		2	10	10	<5	<5
1154291		2	15	20	<5	<5
1154292		15	40 ✓	80	35	<5
1154293		10	35	25	10	<5
1154294		5	25	30	15	<5
1154295		20	40 ✓	10	<5	<5
1154296		10 ✓	10	5	<5	<5
1154297		2	<5	5	<5	<5
1154298		5	5	20	<5	<5
1154299		2	<5 ✓	5	5	<5
1154300		2	5 ✓	15	<5	<5
1154301		2	20	30	10	<5
1154302		2	20	30	5	5
1154303		<2	<5	10	<5	<5
1154304		2	10	15	<5	<5
1154305		5	15	30	10	5
1154306		<2	<5	15	<5	<5
1154307		2	5	30	5	<5
1154308		2	5	10	<5	<5
1154309		<2	<5	5	5	<5
Detection Limit:		2 ✓	5 ✓	2 ✓	5	5

Comments:



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

Batch Number: K216

Contact: MR. J. WEIR
Order No. D.P.O. 31957

No. of Samples: 204
Date Received: 31/10/84
Date Completed: 09/11/84

Sample Type: SOIL

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580
1154280		0.06	<5	<1	<1
1154281		0.11	<5	2	<1
1154282		0.06	<5	<1	<1
1154283		0.04	<5	<1	<1
1154284		0.08	5	4	<1
1154285		0.06	<5	<1	<1
1154286		0.08	<5	<1	<1
1154287		0.06	<5	<1	<1
1154288		0.08	<5	<1	<1
1154289		0.08	<5	<1	<1
1154290		0.07	<5	<1	<1
1154291		0.16	<5	2	<1
1154292		0.43	<5	18	<1
1154293		0.33	10	<1	<1
1154294		3.07	95	8	<1
1154295		0.15	10	3	<1
1154296		0.06	10	<1	<1
1154297		0.05	5	<1	<1
1154298		0.64	50	<1	<1
1154299		0.10	10	<1	<1
1154300		0.37	20	2	<1
1154301		3.26	85	8	<1
1154302		3.35	75	9	<1
1154303		0.16	5	<1	<1
1154304		0.32	55	<1	<1
1154305		3.07	120	14	<1
1154306		0.63	45	<1	<1
1154307		1.21	80	<1	<1
1154308		0.34	15	2	<1
1154309		0.05	<5	<1	<1
Detection Limit:		0.01 ✓	5 ✓	1 ✓	1

Comments:



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

Batch Number: K216

Contact: **MR. J. WEIR**

No. of Samples: **204**
 Date Received: **31/10/84**
 Date Completed: **09/11/84**

Order No. **D.P.O. 31957**

Sample Type: **SOIL**

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1154310		2	<5	5	<5	<5
1154311		2	<5	5	<5	<5
1154312		2	10	20	5	<5
1154313		<2	<5	5	<5	<5
1154314		2	<5	5	<5	<5
1154315		2	10	5	<5	<5
1154316		5	15	10	<5	<5
1154317		<2	<5	5	<5	<5
1154318		<2	<5	5	<5	<5
1154319		2	<5	10	5	<5
1154320		5	15	50	15	5
1154321		2	5	10	<5	<5
1154322		2	5	5	<5	<5
1154323		2	5	5	<5	<5
1154324		2	20	70	30	15
1154325		5	15	65	30	15
1154326		5	15	25	15	<5
1154327		2	5	35	<5	<5
1154328		2	<5	10	10	<5
1154329		2	5	10	5	<5
1154330		2	5	10	25	<5
1154331		5	15	50	10	10
1154332		5	10	10	10	<5
1154333		2	20	50	20	10
1154334		10	20	85	35	15
1154335		5	15	40	35	10
1154336		5	25	75	25	10
1154337		15	20	100	25	10
1154338		5	15	50	10	5
1154339		5	10	30	10	<5
Detection Limit:		2 ✓	5 ✓	2 ✓	5	5

Comments:



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LEVEL 4, BELLERIVE QUAY,
CAMBRIDGE ROAD,
BELLERIVE, TAS. 7018

Batch Number: K216

Contact: MR. J. WEIR

No. of Samples: 204
Date Received: 31/10/84
Date Completed: 09/11/84

Order No. D.P.O. 31957

Sample Type: SOIL

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580
1154310		0.11	<5	<1	<1
1154311		0.12	5	<1	<1
1154312		0.58	25	<1	<1
1154313		0.11	<5	<1	<1
1154314		0.07	<5	<1	<1
1154315		0.10	5	<1	<1
1154316		0.09	<5	<1	<1
1154317		0.08	<5	<1	<1
1154318		0.07	<5	<1	<1
1154319		0.11	5	<1	<1
1154320		4.22	390	<1	1
1154321		0.22	10	<1	<1
1154322		0.19	10	<1	<1
1154323		0.22	10	<1	<1
1154324		5.14	320	3	<1
1154325		4.20	410	5	<1
1154326		0.45	55	<1	<1
1154327		0.50	70	<1	<1
1154328		0.18	10	<1	<1
1154329		0.21	10	<1	<1
1154330		0.27	10	<1	<1
1154331		1.53	195	<1	<1
1154332		0.31	15	<1	<1
1154333		3.03	175	3	<1
1154334		4.95	310	2	<1
1154335		6.40	150	<1	1
1154336		5.54	200	1	1
1154337		4.82	380	<1	<1
1154338		2.34	150	<1	<1
1154339		1.28	130	<1	<1
Detection Limit:		0.01 ✓	5 ✓	1 ✓	1

Comments:



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

Batch Number: F216

MR. J. WEIR
D.P.O. 31957

No. of Samples: 204
Date Received: 31/10/84
Date Completed: 09/11/84

Sample Type: SOIL

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1154340		25	15	50	20	10
1154341		20	40	55	20	15
1154342		10	10	75	25	10
1154343		15	15	75	15	10
1154344		20	15	80	25	10
1154345		25	15	100	25	15
1154346		10 ✓	15	45	15	5
1154347		5	15	75	30	10
1154348		5	15	70	15	10
1154349		5	10	30	25	<5
1154350		5	10	20	10	<5
1154351		5	10 ✓	80	15	10
1154352		5 ✓	15	45	15	<5
1154353		10 ✓	20	80	15	5
1154354		15 ✓	20	90	20	5
1154355		10 ✓	20 ✓	90	25	10
1154356		5 ✓	15	115	35	20
1154357		15 ✓	40	70	25	5
1154358		5	15 ✓	60	25	<5
1154359		10	20 ✓	35	25	5
1154360		30	15	25	20	<5
1154361		10	15	55	30	5
1154362		15	15	45	25	<5
1154363		10	10	25	15	<5
Reporting Limit		2	5 ✓	2 ✓	5	5

Comments:



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

Batch Number: K216

MR. J. WEIR

No. of Samples: 204
Date Received: 31/10/84
Date Completed: 09/11/84

D.P.O. 31957

Sample Type: **SOIL**

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580
1154340		3.92	195	2	<1
1154341		17.7	450	4	1
1154342		3.74	350	1	<1
1154343		3.99	300	1	<1
1154344		3.86	400	2	<1
1154345		4.81	500	1	<1
1154346		2.75	110	1	<1
1154347		3.33 ✓	250	2	<1
1154348		2.64	300	<1	<1
1154349		1.22	100	2	<1
1154350		0.60	45	<1	<1
1154351		2.58 ✓	440	2	<1
1154352		2.74	145	1	<1
1154353		3.63	210	9	<1
1154354		4.71	420	16	<1
1154355		4.80	270	16	<1
1154356		4.33	340	3	<1
1154357		3.72	95	14	<1
1154358		3.25	100	5	<1
1154359		4.44	180	22	<1
1154360		5.17	15	22	<1
1154361		5.05	195	5	<1
1154362		1.66	10	7	<1
1154363		0.95	20	14	<1
Detection Limit.		0.01	5 ✓	1 ✓	1

Comments:



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Signatory: *[Signature]*

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 (N)
- 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),
Main forest (R), Ti Tree (T)
Cultivation (C), Acid 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
 Calcareous CLAR
 Siltstone SILT
 Shale SHAL
 Calcareous
 Shale CLSH
 Black Shale/
 Carb/Graphite .. BLSH
 Oil Shale OLSH
 Lignite LIGN
 Coal-Black CLBL
 Coal-Brown CLBR
 Mudstone MUDE
 Marl MARL
 Clay CLAY
 Tillite TILL

Sediments - Chemical

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

Miscellaneous

Silcrete SLRT
 Calcrite CLRT
 Bauxite BAUX
 Ironstone IRST
 Laterite LATR
 Gossan GOSS
 Sulphides SULP
 Quartz Vein QTVN
 Gresien GRES
 Fuberite FUBR

Volcanics

Agglomerate AGLM
 Lapilli Tuff LPTF
 Ash Flow Tuff ... APTF
 Ignimbrite IGNM
 Crystal Tuff CRTF
 Vitric Tuff VTTF
 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 MSPN
 Meta Sediment -
 Coarse MCCR
 Metavolcanic ... MTLV
 Greenschist CRSC
 Schist Undiff ... SCUD
 Schist Mafic ... SCMF
 Schist Lauco ... SCLC
 Schist Amphibole. SCAM
 Schist
 Andalusite ... SCAN
 Schist Biotite .. SCBT

Schist Chlorite . SCCH
 Schist Garnet ... SCGR
 Schist Muscovite. SCMS
 Schist Mica SCMC
 Schist Pelitic .. SCPL
 Schist Psammitic. SCPS
 Schist Sericite . SCSE
 Schist Quartz
 Mica SCOM
 Schist
 Staurolite ... SCST
 Schist Talc SCTL
 Amphibolite AMPH
 Gneiss Undiff ... GNUM
 Gneiss Mafic ... GNMF
 Gneiss Lauco ... GNLG
 Gneiss Amphibole. GNAM
 Gneiss Augen ... GNAG
 Gneiss Biotite .. GNBT
 Gneiss Garnet ... GNGT
 Gneiss Granite .. GNGR
 Gneiss
 Sillimanite .. GMSL
 Gneiss
 Staurolite ... GNST
 Granulite GRGT
 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 PICR
 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. CIIM
 Med Intermed
 Intr. MIIM
 Fine Intermed
 Intr. FIIM
 Syenite SYEN
 Dolerite DOLA
 Diorite DIOR
 Coarse Acid Intr. CAIM

MINERALISATION/ALTERATION CODE

Medium Acid Intr. MAIN
 Fine Acid Intr. . FAIM
 Granite GRAN
 Aplite APLT
 Adamellite ADAM
 Granodiorite GRDR
 Quartz Porphyry . QUPR
 Quartz Feldspar
 Porphyry QPFR
 Granophyre GRPH
 Pegmatite PEGM
 Glass GLAS

Veins VEIN
 Gossan GOSN
 Boxworks After Sulphides.. BOXN
 Massive Sulphides MSSL
 Disse. 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
 Saussurisation SAUS
 Sericitisation SERC
 Silicification SILC
 Talcose TALC
 Tourmalinisation TOUR
 Zeolitisation ZEOL
 Other OTHR

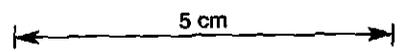
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GRA EXPLORATION PTY LIMITED

STREAM SEDIMENT SAMPLE & FLD SHEET

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	Float		Min/Air	Scint	Look
1142590	3330	8000	L4	-80*	-	60	30	10	-	25	4	S	C	W	-	SS	-	-	-	-	-	-	R
1142591	3475	8000	L4	-80*	25	30	30	15	-	15	1	S	B	W	-	SS	-	-	-	-	-	-	R
1142597	2490	8000	L4	-80*	-	-	40	40	20	10	1	S	B	W	-	R	-	-	-	-	-	-	R
1148688	1570	8000	L4	-80*	30	30	20	20	-	1	2	S	C	W	-	SS	-	SILT	-	-	-	-	R
1142689	1535	8000	L4	-80*	30	30	20	20	-	2	1	F	C	W	-	SS	BLSH	BLSH	-	-	-	-	R
1142692	1300	6500	L4	-80*	50	20	15	15	-	2.5	1	F	C	W	-	SS	BLSH	BLSH	SILT	-	-	-	R
1142695	1550	6500	L4	-80*	-	20	40	40	-	0.5	1	D	C	W	-	R	-	-	-	-	-	-	R
1142696	1680	6500	L4	-80*	40	20	20	20	-	1	1	S	C	W	-	SS	-	SILT	-	-	-	-	R
1142699	1805	6500	L4	-80*	40	10	25	25	-	0.5	1	S	C	W	-	SS	SILT	SILT	-	-	-	-	R
1154364	2160	6500	L4	-80*	30	20	25	25	-	3	2	S	B	W	-	SS	-	SILT	QTVN	-	-	-	R



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PROJECT ROCKY CAPE 1:250 000 SHEET BURNIE SK SS-3 COLLECTED BY DJW
 TENEMENT EL 1172 SAMPLE NO. 31958 DATE Oct 84
 INVESTIGATION FRANKLAND RIVER PROSPECT DPO: 31958



PROJECT

GEOCHEMICAL SAMPLING LEDGER

DATE

TENEMENT

AREA / PROSPECT FRANKLAND RIVER

GEOLOGIST DJW

SAMPLE TYPE STREAM SEDIMENTS

PAGE NO. 7

SAMPLE NUMBER	GRID REF.	ANALYSES											DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP -80 MESH STREAM SAMPLE			
		Cu	Pb	Zn	Ni	Co	Fe	Mn	As	Ag	PPb Au.							
1142590		20	10	10	20	<5	0.37	45	9	1	<3						31958	
591		10	10	10	15	45	0.35	30	4	<1	<3							
597		10	10	10	20	45	0.36	35	2	<1	<3							
688		10	35	25	15	45	1.39	130	7	<1	3							
689		10	40	30	10	10	1.95	410	14	1	<3							
692		10	20	30	15	45	1.74	165	9	1	<3							
695		15	40	30	10	5	2.35	135	8	1	<3							
696		10	30	60	20	20	2.89	460	8	1	<3							
699		10	25	45	10	20	1.47	620	1	1	<3							
1154364		10	15	10	15	<5	0.72	80	4	<1	<3							

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KEY TO ROCK SAMPLE FIELD SHEET

- Sample Number** - CRAE 6 or 7 digit No.
- East** - ANG or Local Grid Co-ordinate in m.
- North** - ANG or Local Grid Co-ordinate in m.
- Zone/LG** - ANG Zone or L for Local Grid.
- Sample Type** - DERS Code.
- From - To** - In 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.
 - Gauche** - 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 items of interest recorded in the Geological observations column (Y/N).

ROCK TYPE CODE

Sediments - Clastic

Sedimentary	SDRC
Rock	COMG
Conglomerate	BREC
Grit	GRIT
Sandstone	SSUD
Undiff	GREY
Greywacke	ARKS
Arkose	CLAR
Calcarene	SILT
Siltstone	SMAL
Shale	CLSN
Calcareous	
Shale	CLSN
Black Shale*/	
Carb/Graphite	BLEM
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	LINS
Dolomite	DOLM
Travertine	TRAV
Argillaceous Limestone	ARLN
Chert	CHER
Jaasperoid	JASP
Evaporite	EVAP
Phosphate Rock	PHRC
Magnetite	MGST
Iron Formation	IAFM

Volcanics

Agglomerate	AGLM
Lapilli Tuff	LPTT
Ash Flow Tuff	AFTT
Ignimbrite	IGNM
Crystal Tuff	CTPT
Vitic Tuff	VTTT
Obsidian	OBSD
Mudflows	MUDF
Tuffaceous Sandstone	TFSS
Tuffaceous Shale	TFSS
Basic Volc. Undiff	BVUD
Basalt	BASL
Basic Lava	BSLV
Basic Pyroclast	BSPY

Miscellaneous

Silcrete	SLRT
Calcrete	CLRT
Bauxite	BAUX
Ironstone	IRST
Laterite	LATR
Gossan	GOSS
Sulphides	SULP
Quartz Vein	QTVM
Green	GRES
Fubarite	FUBA
Silcrete	SLRT
Calcrete	CLRT
Bauxite	BAUX
Ironstone	IRST
Laterite	LATR
Gossan	GOSS
Sulphides	SULP
Quartz Vein	QTVM
Green	GRES
Fubarite	FUBA

Tr. to	TRAC	Fine Intermed
Ac	ACLV	Intr.
Acta	ACPY	Syenite

Metamorphics

Metamorphic Rock Undiff	MNUD
Breccia	BREC
Mylonite	MLOW
Gouge	GOUG
Narble	NARB
Calc Silicate	CLSL
Sharn	SKAR
Hornfels	HORN
Slate/Phyllite	SLAT
Quartzite	QTZT
Meta Sediment - Fine	MSEF
Meta Sediment - Course	MSCR
Metavolcanic	NTVL
Greenschist	GRSC
Schist Undiff	SCUD
Schist Mafic	SCMF
Schist Leuco	SCLE
Schist Amphibole	SCAM
Schist	
Andalusite	SCAN
Schist Biotite	SCBT
Schist Chlorite	SCCM
Schist Garnet	SCGR
Schist Muscovite	SCMS
Schist Mica	SCMC
Schist Pelitic	SCPL
Schist Psammitic	SCPS
Schist Sericite	SCSR
Schist Quartz	
Mica	SCOM

ALTERATION CODE

Argillisation	ANGL
Albitisation	ALBT
Calc Silicate	CLSL
Carbonatisation	CARB
Chloritisation	CHLR
Dolomitisation	DOLM
Ferruginisation	FERR
Kaolinisation	KAOL
Potassic	POTS
Propylitisation	PROP
Pyritisation	PYRT
Saussurisation	SAUS
Sericitisation	SERC
Silicification	SILC
Talcosa	TALC
Tourmalinisation	TOUR
Zeolitisation	ZEOL
Other	OTHR

MINERALISATION STYLE CODE

Stratabound	SB
Discordant	DC
Veins/Wet Veining	VN
Stockwork	SW
Fault/Joints	FL
Shear	SH
Pods	PD
Disseminated	DS
Semi Massive	SM
Massive	MS
Sharn	SK
Pipe	PP
Boxwork (or pipe assoc. of sin)	BW
Placer	PL
Fluvial	EL

MINERAL CODE

Greenstone	GRGN
Ultrabasic Intr. Undiff	UIUD
Eclogite	ECLG
Peridotite	PERD
Serpentinite	SERP
Anorthosite	ANOR
Gabbro	GABR
Alkali Gabbro	ALGB
Norite	NORT
Picrite	PICR
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.	CIIM
Med Intermed Intr.	MIIM
Actinolite	ACTN
Adularia	ADUL
Agate	AGAT
Alkali Feldspar	ALFL
Albite	ALBT
Allanite	ALAN
Alunite	ALUN
Amphibole	AMPH
Andalusite	ANDL
Andesine	ANDS
Anhydrite	ANHY
Ankerite	ANKR
Anthophyllite	ANTH
Antimonite	ANTM
Antimony Native	SBNT
Apatite	APAT
Aragonite	ARAG
Argentite	ARGN
Arsenic	ASNT
Arsenopyrite	ARPY
Asbestos	ASBS
Augite	AUGI
Asurite	ASUR
Barite	BARF
Bastnaesite	BAST
Bauxite	BAUX
Bentonite	BENT
Beryl	BERY
Biotite	BIOT
Bismuth	BISM
Bismuthinite	BISM
Situmene	BITH
Boracite	BORC
Borax	BORX
Boulangerite	BOUL
Bronzite	BRON
Brocrite	BRUC
Calcite	CALC
Carbonate	CARB
Carnotite	CARN
Cassiterite	CASS
Cesstite	CZLS
Cerussite	CERS
Chalcodony	CHMD
Chalcoite	CHCT
Chalcocopyrite	CHCP
Chamosite	CHAM
Chert	CHER
Chlorite	CHLR
Chrom Diopside	CHDP
Chrom Spinel	CHSP
Chromite	CHRM
Chrysoile	CHRY
Cinnabar	CINN
Clay	CLAY
Clinopyroxene	CLPX
Clinosilicate	CLIS
Cobaltite	COBL
Collophane	COLP
Columbite	COLM
Copper	CPMT
Cordierite	CORD
Corundum	CORU
Covalite	COVL
Crocidolite	CRCC
Cryolite	CRYL
Cubanite	CUBN
Cunningtonite	CUNN
Cuprite	CUPR
Diamond	DIAM
Digenite	DIGM
Diopside	DIOP
Dolomite	DOLM
Electrum	ELEC
Emerald	EMER
Enargite	ENAR
Enstatite	ENST
Epidote	EPID
Evaporites	EVAP
Fayalite	FAYL
Feldspar	FELD
Ferberite	FEBR
Ferrodoxolite	FROD
Fluorite	FLUR
Frankelite	FRAN
Fuchsita	FUCH
Gahnite	GAHN
Galenite	GALM
Garnet	GARN
Garnierite	GRNT
Gibbsite	GIBS
Glass	GLAS
Glaucophane	GLAC
Glaucophane	GLPH
Goethite	GOET
Gold	AUNT
Graphite	GRAF
Granularite	GRNS
Guano	GUAN
Gypsum	GYPG
Halite	HALT
Haaslewoodite	HAAS
Hedenbergite	HEDN
Hematite	HENT

Asbestos	ASBS
Augite	AUGI
Asurite	ASUR
Barite	BARF
Bastnaesite	BAST
Bauxite	BAUX
Bentonite	BENT
Beryl	BERY
Biotite	BIOT
Bismuth	BISM
Bismuthinite	BISM
Situmene	BITH
Boracite	BORC
Borax	BORX
Boulangerite	BOUL
Bronzite	BRON
Brocrite	BRUC
Calcite	CALC
Carbonate	CARB
Carnotite	CARN
Cassiterite	CASS
Cesstite	CZLS
Cerussite	CERS
Chalcodony	CHMD
Chalcoite	CHCT
Chalcocopyrite	CHCP
Chamosite	CHAM
Chert	CHER
Chlorite	CHLR
Chrom Diopside	CHDP
Chrom Spinel	CHSP
Chromite	CHRM
Chrysoile	CHRY
Cinnabar	CINN
Clay	CLAY
Clinopyroxene	CLPX
Clinosilicate	CLIS
Cobaltite	COBL
Collophane	COLP
Columbite	COLM
Copper	CPMT
Cordierite	CORD
Corundum	CORU
Covalite	COVL
Crocidolite	CRCC
Cryolite	CRYL
Cubanite	CUBN
Cunningtonite	CUNN
Cuprite	CUPR
Diamond	DIAM
Digenite	DIGM
Diopside	DIOP
Dolomite	DOLM
Electrum	ELEC
Emerald	EMER
Enargite	ENAR
Enstatite	ENST
Epidote	EPID
Evaporites	EVAP
Fayalite	FAYL
Feldspar	FELD
Ferberite	FEBR
Ferrodoxolite	FROD
Fluorite	FLUR
Frankelite	FRAN
Fuchsita	FUCH
Gahnite	GAHN
Galenite	GALM
Garnet	GARN
Garnierite	GRNT
Gibbsite	GIBS
Glass	GLAS
Glaucophane	GLAC
Glaucophane	GLPH
Goethite	GOET
Gold	AUNT
Graphite	GRAF
Granularite	GRNS
Guano	GUAN
Gypsum	GYPG
Halite	HALT
Haaslewoodite	HAAS
Hedenbergite	HEDN
Hematite	HENT

Hornblende	HORN
Hübnerite	HUBN
Ilmenite	ILMN
Iron Oxides	FEOX
Jadeite	JADT
Jarosite	JARS
Jaasper	JASP
Kaolin	KAOL
Kyanite	KYAN
Labradorite	LABR
Lepidolite	LEPD
Leucite	LEUC
Loxene	LOXN
Liomite	LIMN
Loellingite	LOEL
Magnetite	MAGH
Manganite	MAGM
Marcasite	MARC
Martite	MART
Melilite	MELT
Mercury	MGMT
Nica	NICA
Microcline	MICR
Molybdenite	MOLY
Monazite	MONZ
Montmorillonite	MMNT
Muscovite	MUSC
Nepheline	NEPH
Nephrite	NPRY
Ochre	OCHR
Oligoclase	OLIG
Olivine	OLIV
Opal	OPAL
Orthoclase	ORCL
Orthopyroxene	ORPX
Pentlandite	PENT
Perthite	PERT
Phlogopite	PHLG
Phosphate	PHOS
Picro-ilmenite	PCIL
Pitchblende	PITC
Plagioclase	PLAG
Platinum	PTMT
Potash Feldspar	PTFL
Prehnite	PREH
Pyrochlore	PYCH
Pyroclastic	PYLS
Pyromorphite	PYMR
Pyrope	PYRP
Pyrophyllite	PYPH
Pyroxene	PYRX
Pyrrhotite	PYRH
Quartz	QUAR
Rhodochrosite	RHCH
Rhodonite	RHOD
Siobekite	RIEB
Ruby	RUBY
Rutile	RUTL
Salts	SALT
Sandstone	SAND
Sapphire	SAPH
Scapolite	SCAP
Scheelite	SCHL
Sericite	SERC
Serpentine	SERP
Siderite	SIDR
Silica	SILC
Silicate	SICT
Sillimanite	SILL
Silver	AGMT
Smithsonite	SMNT
Smoky Quartz	SMQT
Specularite	SPEC
Spessartine	SPES
Sphalerite	SPHL
Sphen	SPHN
Spinel	SPIN

Stannite	STAN
Staurolite	STAR
Stibnite	STIB
Stilpnomelane	STIL
Sulphate	SLPT
Sulphides	SLPD
Sylvite	SYLV
Talc	TALC
Tantalite	TANT
Telluride	TELE
Tennantite	TENT
Tetrahedrite	TETR
Thoria	THOR
Topaz	TOPZ
Tourmaline	TOUR
Tremolite	TREM
Uraninite	URNT
Uranophane	URPH
Uranthorite	URTH
Vanadinite	VAND
Vermiculite	VERM
Vesuvianite	VESV
Willemitite	WILM
Willyerite	WILY
Witherite	WITH
Wollastonite	WOLF
Wollastonite	WOLS
Zeolite	ZEOL
Zincite	ZINC
Zircon	ZIRC

GEOLOGICAL AGE CODE

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

GRAIN SIZE CODE

Clay	CL
Silt	PYRN
Fine Sand	FL
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	BW
Massive	MS
Bedded	BD
Crude Bedded	CB
Graded Bedding	GB
Nodular	ND

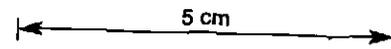
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CRA EXPLORATION PTY LIMITED

ROCK SAMPLE FIELD SHEET

RK

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 Stuffs	Major	Minor	Minor	Gangue	Age	Grain Size	Texture	Colour	Looks	
1142592	3440	8000	L4	GRAB				O	BLSH			D SB	PYRT				Pe	Pe	Fg	Bd	Black	
1142593	3115	8000	L4	GRAB				F	SILT								Pe	Pe	Fg	Bd	grey	
1142594	3050	8000	L4	GRAB				O	SILT	Other	T	MGTT					Pe	Pe	Fg	Bd	grey	
1142595	2950	8000	L4	GRAB				F	SILT	SILC							Pe	Pe	Fg	Bd	grey	
1142596	2895	8000	L4	GRAB				O	SILT	FELC							Pe	Pe	Fg	Bd	grey	
1142598	2125	8000	L4	GRAB				O	SILT								Pe	Pe	Fg	Bd	grey	Slightly sheared.
1142599	2045	8000	L4	GRAB				O	SILT	SILC	T SB	PYRT					Pe	Pe	Fg	Bd	grey	
1142600	2025	8000	L4	GRAB				O	SILT	SILC							Pe	Pe	Fg	Bd	Black	
1142690	1535	8000	L4	GRAB				O	BLSH								Pe	Pe	Fg	Bd	Black	
1142691	1350	6500	L4	GRAB				O	BLSH	SILC	A	SPCL					Pe	Pe	Fg	Bd	Black	Specular Hematite.
1142693	1300	6500	L4	GRAB				O	BLSH								Pe	Pe	Fg	Bd	Black	
1142694	1250	6500	L4	GRAB				O	SILT								Pe	Pe	Fg	Bd	grey	
1142697	1735	6500	L4	GRAB				O	SILT		T SB	MGTT					Pe	Pe	Fg	Bd	grey	
1142698	1760	6500	L4	GRAB				O	SILT		T SB	MGTT	LCFN				Pe	Pe	Fg	Bd	grey	
1142700	2125	6500	L4	GRAB				O	SILT		T SB	MGTT					Pe	Pe	Fg	Bd	grey	
1154365	2315	6500	L4	GRAB				O	SILT		T SB	MGTT					Pe	Pe	Fg	Bd	grey	
1154366	2765	6500	L4	GRAB				O	SILT	SILC	T SB	MGTT	PYRT				Pe	Pe	Fg	Bd	grey	
1154367	3060	6500	L4	GRAB				O	SILT								Pe	Pe	Fg	Bd	grey	
1154368	4380	6500	L4	GRAB				O	BLSH								Pe	Pe	Fg	Bd	Black	mod. Carbonaceous.
1142687	1865	8000	L4	GRAB				O	BLSH								Pe	Pe	Fg	Bd	Black	



PROJECT Rocky Cape 1:250000 SHEET BURNE SK 55-3 COLLECTED BY RJW DATE Oct 84
 TENEMENT EL 177 SAMPLE NO.'S _____ LOCAL GRID CROSS REF _____
 INVESTIGATION FRANKLIN RIVER PROSPECT DPO'S 31958



229163

197

PROJECT

GEOCHEMICAL SAMPLING LEDGER

DATES :

TENEMENT

AREA / PROSPECT FRANKLAND RIVER PLASPECTGEOLOGIST JWSAMPLE TYPE ROCKSPAGE NO. 1

SAMPLE NUMBER	GRID REF.	ANALYSES											DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE			
		Cu	Pb	Zn	Ni	Co	Fe	Mn	As	Ag	Au	ppb						
1142592		25	35	80	30	10	4.85	720	14	1	<3						31958	
593		10	25	40	20	5	2.22	210	8	1	<3							
594		10	20	40	45	45	1.69	115	7	<1	<3							
595		10	20	55	30	45	1.81	95	7	<1	<3							
596		15	15	80	30	45	1.59	90	6	<1	<3							
598		5	15	20	10	45	1.62	115	8	<1	<3							
599		45	55	20	20	10	1.74	45	20	<1	<3							
600		10	20	25	25	45	2.11	80	5	<1	<3							
1142690		10	90	120	40	20	4.68	1050	8	1	<3							
691		15	40	35	15	45	2.84	130	16	<1	<3							
693		10	40	80	45	15	5.14	470	12	1	<3							
694		10	85	80	45	10	4.52	350	14	1	<3							
697		10	25	80	25	5	3.49	700	4	1	<3							
698		20	25	105	35	15	3.68	590	6	<1	<3							
1142700		10	40	80	25	15	4.37	610	2	1	<3							
1154365		5	20	35	25	5	1.51	160	2	<1	<3							
366		5	15	25	20	45	1.44	105	2	<1	<3							
367		5	20	50	25	5	2.61	180	9	<1	<3							
1154368		10	15	20	20	45	0.4	30	4	<1	<3							
1142687		5	15	15	25	45	0.61	25	4	<1	<3							

229167

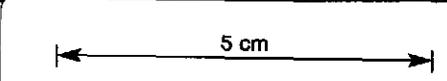
164

CRA EXPLORATION PTY LIMITED

ROCK SAMPLE FIELD SHEET

RK

SAMPLE NUMBER	SAMPLE LOCATION		SAMPLE DESCRIPTION					ROCK TYPE			MINERALISATION							GEOLOGICAL OBSERVATIONS						
	East	North	Zone/UG	Sample Type	From	To	Width	Exposure	Major	Minor	Alteration	Visible	Style	Major	Minor	Minor	Group		Age	Mineral	Grain Size	Texture	Colour	Fracture
1142435			SS	CS.			10	0	SILT.									Pe	Pen	Fg	bd	bl		Black finely laminated siltstone → Shale. possibly Tournaisian rich
1142436				GRAB				0	SILT		SILC	T	D	PYRT.				Pe	Pen	Fg	bd	gr		Black sheared spotted siltstone → slak 1-2% Py. - greywacke → quartz wacke.
1142437				GRAB				0	GREY									Pe	Pen	Fg	bd	gr		
1142438				GRAB				0	SILT			D	D	PYRT				Pe	Pen	Fg	bd	bl		Black, f. lam siltstone. 5-10% Py.
1142439				GRAB				0	SILT.									Pe	Pen	Fg	bd	bl		Black siltstone. Clear of all structures.
1142440				GRAB				0	SBUD									Pe	Pen	Fg	bd	gr		Grey s.s. sandstone, f. laminated.
1142441				GRAB				0	QTZT									Pe	Pen	Fg	bd	wh		white s.s. sugary quartzite.
1142442				CHIP			10	0	SILT.									Pe	Pen	Fg	bd	gr		Grey, s.s. sheared siltstone.
1142443				CHIP			20	0	SILT.									Pe	Pen	Fg	bd	cr		Orange weathered py. siltstone
1142444				GRAB				0	SILT.									Pe	Pen	Fg	bd	bl		Black lam. siltstone, sl. Carbonaceous.
1142445				GRAB				0	SILT									Pe	Pen	Fg	bd	bl		Black pyram siltstone & siltstone.
1142446				GRAB				0	SILT		QTVN							Pe	Pen	Fg	bd	bl		Black pyram siltstone - faulted.
1142447				GRAB				0	SILT									Pe	Pen	Fg	bd			Pyram siltstone.
1142448				GRAB				0	SILT		FERG							Pe	Pen	Fg	bd	bl		Black, sl. hematitic pyram siltstone.



PROJECT ROAD MAPPING.

1:250000 SHEET BURNIE SK 65-3.

COLLECTED BY mm DATE June 87

TENEMENT ROCKY CAPE EL 1/77

SAMPLE NO.S 1142435

LOCAL GRID CROSS REF

INVESTIGATION BLACKWELLS ROAD.

DPO'S 31910



229165

1691

PROJECT

GEOCHEMICAL SAMPLING LEDGER

DATES : June 84

TENEMENT

AREA / PROSPECT BLACKWELLS ROAD.

GEOLOGIST DW

SAMPLE TYPE Rocks.

PAGE NO. _____

SAMPLE NUMBER	GRID REF.	ANALYSES											DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE	
		Cu	Pb	Zn	Ag	As	Fe	Mn	Sr	W	Ba					
1142435		15	20	20	1	3	0.44	280	5	<10	520				31910.	
436		25	115	10	1	7	1.10	145	25	210	440					
437		10	15	15	1	85	3.01	760	25	210	550					
438		10	10	25	1	10	1.62	320	25	210	520					
439		15	10	15	1	10	1.05	110	25	210	770					
440		10	10	15	1	7	0.71	195	25	210	890					
441		2	10	20	1	5	1.26	85	5	210	720					
442		5	10	35	1	5	1.68	390	25	210	440					
443		10	15	15	1	9	1.85	110	25	210	700					
444		5	15	75	1	6	4.12	230	25	210	480					
445		5	10	65	1	3	2.90	165	5	210	410					
446		10	5	25	1	7	1.50	190	25	210	480					
447		15	15	40	1	10	2.15	170	25	210	580					
448		20	25	65	2	16	3.66	60	25	210	770					

229166

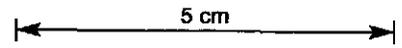
169

CRA EXPLORATION PTY LIMITED

ROCK SAMPLE FIELD SHEET

RK

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	Comps	Age	Unit	Grain size	Texture	Colour	Scale	Mag. Susc. 10 ⁻³ cgs	
1142666	4510E	5000	SS	GRAB				0	SILT			D	SB	MGTT	LCYN			PC		Fg	bd	GRN	Y	0.23	Green lam. Siltst.
667	4485	"	SS	GRAB				0	SILT			D	SB	MGTT				PC		Fg	bd	GRN		0.23	Green lam. Siltst.
670	3615	"	SS	GRAB				0	SILT									PC		Fg	bd	GRN		0	Green lam Siltst.
672	3960	"	SS	GRAB				0	SILT			D	SB	MGTT				PC		Fg	bd	GRN		0	Green lam Siltst.
673	4425	"	SS	GRAB				0	SILT			D	SB	MGTT				PC		Fg	bd	GRN		0.14	Grey-Green lam Siltst.



229167

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PROJECT FRANKLAND R. PROSPECT 1:250000 SHEET BURNIE SK 55-3 COLLECTED BY DJW DATE 13/3/84
 TENEMENT ROCKY CAPE EL 1/77 SAMPLE NO.S _____ LOCAL GRID CROSS REF 5000E/5000N 322141 5439210
 INVESTIGATION _____ DPROS 30487



APPENDIX 9

SALMON RIVER PROSPECT

SAMPLE LEDGERS AND ASSAY RESULTS

172

CRA EXPLORATION PTY. LTD.

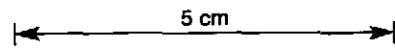
229172

TASMANIA

Sample Number	SOIL DESCRIPTION										BEDROCK					METAL CONTENT ppm / %										Geological Observations
	Co-ordinates AMG / Grid		Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic Soil Type	Rock Type	Alteration	Vis. Min.	Min. Type	LOOK	Cu	Pb	Zn	Bi	As	Ag	Sn	W	Ba	Au	
	East	North																								
1142292	5080 W	5000	0.85	235	7					5	11				5	<5	15	<5	2	<1	<5	<10	180	<0.03	med grey-brown & rounded qtz gravel.	
293	5040 W		0.80	128	4					2	9				15	<5	15	<5	10	<1	<5	<10	470	<0.03	light buff-grey loam v. weath buff-orange shale? frag.	
294	5060 W		0.90	182	5					2	9				5	<5	15	5	3	1	<5	<10	490	<0.03	light or-buff loam & highly weath shale frags.	
295	5080 W		0.60	130	7					5	11				2	<5	10	<5	2	1	<5	<10	270	<0.03	pale grey sandy loam & white quartz gravels.	
296	5100 W		0.85	130	7					5	11				5	<5	10	<5	3	1	<5	<10	320	<0.03	pale grey sandy soil & white quartz pebbles.	
297	5120 W		0.50	130	7					5	11				2	<5	15	<5	4	1	<5	<10	380	<0.03	pale grey clay & qtz gravel minor limonite frags.	
298	5140 W		0.60	130	7					5	11				5	<5	5	5	3	<1	<5	<10	280	<0.03	pale grey sandy soil & quartz gravels.	
299	5160 W		0.70	130	7					5	11				5	<5	10	<5	3	<1	<5	<10	260	0.03	pale grey sandy soil & quartz gravels.	
300	5180 W		0.40	125	4					2	7				5	<5	10	5	3	<1	<5	<10	290	<0.03	pale yellow-brown sandy clay & v. weath ss. frags.	
301	5200 W		1.00	182	4					2	-1				2	<5	10	<5	5	<1	<5	<10	650	<0.03	pale or-buff. sl. clayey soil no bedrock.	
302	5220 W		0.50	135	5					2	9				5	<5	15	<5	3	<1	<5	<10	410	<0.03	pale grey brown loam & grey shale frags.	
303	5240 W		0.50	180	4					2	5				5	<5	15	<5	7	1	<5	<10	460	<0.03	pale orange sandy soil, minor clay & grey gravel frags.	
304	5260 W		0.30	030	4					2	9				5	<5	10	<5	1	1	<5	<10	500	<0.03	grey sandy soil & abundant grey shale frags.	
305	5280 W		0.30	130	4					2	9				2	<5	10	<5	4	1	<5	<10	370	<0.03	pale grey sandy soil & grey shale frags.	
306	5300 W		0.80	125	5					2	9				10	<5	10	<5	16	1	<5	<10	500	<0.03	pale or-brown sandy soil & weath. grey shale frags.	
307	5320 W		0.50	130	4					2	9				2	<5	10	<5	3	1	<5	<10	370	<0.03	pale grey sandy loam & grey shale frags.	
308	5340 W		1.00	128	4					2	9				5	<5	15	<5	5	1	<5	<10	540	<0.03	pale yell. or. clayey soil & grey shale frags.	
309	5360 W		1.00	130	3					2	9				5	<5	10	<5	2	<1	<5	<10	320	0.57	pale grey v. sandy soil qtz gravels & grey shale frags.	
310	5380 W		1.00	130	7					5	-1				5	<5	20	<5	4	1	<5	<10	390	0.03	pale grey sandy soil minor qtz pebbles. shale frags.	
311	5400 W		0.60	030	7					5	11				2	<5	15	<5	2	<1	<5	<10	220	<0.03	grey sandy clay & quartz gravels.	

GEOCHEMICAL SOIL SAMPLING LEDGER	DETECTION LIMIT	2	5	2	5	1	1	5	10	10	0.03
	ANALYTICAL METHOD	ICSPD						VAF 10			PM 209

Tenement Name: <u>ROCKY CAPE EL 1/77.</u>	Project: <u>AMG Zone 55</u>	Sheet No.:
Area / Prospect: <u>SALMON R. PROSPECT.</u>	DPO's: <u>30481</u>	Laboratory: <u>ALS Brisbane</u>
Map / Photo Ref: <u>SANDY CAPE 1 100 000 SHEET</u>	Sample Nos:	Collected By: <u>EPW</u> Date: <u>16/1/84</u>



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229173

CRA EXPLORATION PTY. LTD.

TASMANIA

Sample Number	SOIL DESCRIPTION										BEDROCK				LOOK	METAL CONTENT ppm / %										Geological Observations	
	Co-ordinates AMG / Grid		Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis. Min.		Min. Type	Cu	Pb	Zn	Bi	As	Ag	Sn	W	Ba		Au
	East	North																									
1142312	5420W	5000N	1.10	135	3						2	-1				10	5	25	<5	2	1	5	<10	230	<0.03	light grey brown clay - mud. N. Ck.	
313	5440W		1.00	085	3						2	-1				15	<5	30	<5	<1	1	5	<10	150	<0.03	Or-brown sandy clay.	
314	5465W	5000N	1.00	178	3						2	-1				5	<5	20	<5	1	1	10	<10	140	<0.03	pale green - Or. Sandy clay	
315	5487W		1.00	185	3						2	-1				2	<5	20	<5	1	1	<5	<10	180	<0.03	pale Or-brn Sandy clay quartzite float.	
316	5510W		0.30	035	5						1	2	9			2	<5	15	<5	2	1	<5	<10	260	<0.03	light brown sandy clay. S. 0.05 Bl. spotted shale frags.	

GEOCHEMICAL SOIL SAMPLING LEDGER

DETECTION LIMIT

ANALYTICAL METHOD

2	5	2	5	1	1	5	10	10	0.03
ICSS						IR			PM 209

Tenement Name ROCKY CAPE EL1/77

Area / Prospect SALMON R. PROSPECT

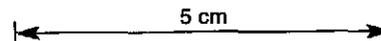
Map / Photo Ref SANDY CAPE 1 100 000 SHEET

Project:

DPO's: 30 481

Sample No s

AMG Zone 55



Sheet No.

Laboratory ALS Brisbane.

Collected By JW.

Date 16/1/84

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CRA EXPLORATION PTY. LTD.

229174

TASMANIA

Sample Number	SOIL DESCRIPTION										BEDROCK				LOOK	METAL CONTENT ppm / %										Geological Observations	
	Co-ordinates AMG / Grid		Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis. Min		Min. Type	Cu	Pb	Zn	Bi	As	Ag	Sn	W	Ba		Au.
	East	North																									
1142317	5025W	5250	0.60	030	7						5	11				2	<5	5	<5	1	1	<5	<10	200	<0.03	Grey Sandy Soil + 9% gravels.	
318	5050W		0.60	135	7						5	9				5	<5	15	<5	1	1	<5	<10	360	<0.03	pale grey-brown sandy soil 9% gravels + grey shale.	
319	5075W		0.60	135	4						2	9				2	<5	10	10	2	1	<5	<10	500	<0.03	pale grey-brown soil + grey shale frags.	
320	5100W		1.00	125	5						2	9	12			10	5	15	<5	6	1	<5	<10	480	0.15	pale buff brown sandy soil + weathered grey shale frags.	
321	5125W		0.90	025	5						2	8				5	<5	15	<5	2	<1	<5	<10	910	<0.03	buff brown sandy soil + strat. frags. gravels to 70cm	
322	5150W		0.50	130	7						5	11				2	<5	10	<5	1	<1	<5	<10	240	<0.03	light grey sandy soil + quartz gravels.	
323	5175W		0.50	135	7						5	11				2	<5	10	<5	1	<1	<5	<10	290	<0.03	light grey-brown sandy soil + quartz gravels.	
324	5200W		0.50	130	7						5	11				2	<5	10	15	1	1	<5	<10	90	<0.03	light grey sandy soil + quartz gravels	
325	5225W		0.60	125	4						2	9				2	<5	5	<5	1	1	<5	<10	190	<0.03	pale buff brown sandy soil + 9% gravels + shale frags.	
326	5250W		0.30	130	5						2	9				2	<5	10	<5	3	1	<5	<10	490	<0.03	pale buff brown sandy soil + clayey shale frags.	
327	5275W		0.50	293	5						2	10		2	10	2	<5	10	<5	1	1	<5	<10	370	<0.03	med blue-green soil bl. shale frags.	
328	5300W		0.20	350	5						2	10				5	5	15	<5	1	1	<5	<10	500	<0.03	grey brown s. sandy soil + grey-bl. shale frags.	
329	5325W		0.20	093	5						2	10				2	<5	10	<5	1	<1	<5	<10	350	<0.03	blue-grey soil bl. shale frags.	
1142363	5350W		0.30	130	5						2	9				2	<5	15	<5	2	<1	<5	<10	430	<0.03	pale grey sandy soil + grey + tan shale frags.	
364	5375W		0.40	135	5						2	9				2	<5	15	<5	2	<1	<5	<10	220	<0.03	pale grey brown sandy soil + grey shale frags.	
365	5400W		0.30	035	5						2	9				5	<5	15	<5	2	<1	<5	<10	250	<0.03	grey-brown sandy soil + grey shale frags.	
366	5425W		0.35	125	5						2	5				10	<5	15	<5	6	1	<5	<10	500	<0.03	pale buff brown sandy soil + tan silt + greywacke frags.	
367	5450W		-1	250	5						2	9				2	<5	15	<5	5	1	<5	<10	410	<0.03	med brown sandy soil + weathered shale frags.	
368	5475		0.20	130	5						2	9				5	<5	15	<5	8	<1	<5	<10	510	<0.03	light grey sandy soil + grey shale frags.	
369	5500		0.20	250	5						1	2	9			20	<5	15	<5	12	1	<5	<10	330	<0.03	dk brown soil with grey shale frags.	

GEOCHEMICAL SOIL SAMPLING LEDGER

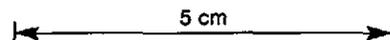
DETECTION LIMIT

ANALYTICAL METHOD

2	5	2	5	1	1	5	10	10	0.03
(C)80						YRF 1A			PM 209

Tenement Name: ROCKY CAPE EL1/77
 Area / Prospect: SALMON R. PROSPECT
 Map / Photo Ref: SANDY CAPE 1:100000 SHEET

Project: AMG Zone SS
 DPO's: 30481
 Sample No's: _____



Sheet No.: _____
 Laboratory: Mrs Briobant
 Collected By: [Signature]
 Date: 16/1/84

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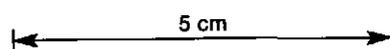
TASMANIA

CRA EXPLORATION PTY. LTD.

229175

Sample Number	SOIL DESCRIPTION										BEDROCK				LOOK	METAL CONTENT ppm / %										Geological Observations	
	Co-ordinates AMG / Grid		Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis. Min		Min Type	Cu	Pb	Zn	Bi	As	Ag	Sn	W	Ba		Au.
	East	North																									
1142370	5525W	5250	0.40	130	3						2	-1				2	<5	10	<5	5	1	<5	<10	340	20.03	Light grey clay clayey soil.	
371	5550W		0.65	150	4						2	-1				10	5	15	<5	12	1	<5	<10	440	20.03	Light brown clay soil + shale frags.	
372	5575W		0.55	150	5						2	10				5	<5	10	<5	12	1	<5	<10	400	20.03	Light brown clayey soil + grey-bl shale frags.	
373	5600W		0.20	130	5						2	9				5	<5	10	<5	3	<1	<5	<10	130	20.03	Light grey soil + grey shale frags.	
374	5625W		0.50	130	5						2	10				5	<5	10	<5	2	1	<5	<10	370	20.03	Light grey soil + bl. shale frags.	
375	5650W		0.40	130	5						2	9				5	<5	15	<5	5	<1	<5	<10	380	20.03	Light grey soil + grey-bl shale frags.	
376	5675W		0.80	130	3						2	-1				55	25	25	<5	12	1	<5	<10	320	20.03	Light grey clay.	

GEOCHEMICAL SOIL SAMPLING LEDGER	DETECTION LIMIT																								
	ANALYTICAL METHOD																								

Tenement Name: <u>Rocky Cape EL1/77</u>	Project: _____	AMG Zone: <u>55</u>	Sheet No: _____
Area / Prospect: <u>SALMAN R. PROSPECT</u>	DPO's: <u>30481</u>		Laboratory: <u>ALS Brisbane</u>
Map / Photo Ref: <u>SPADY CAPE 1:100 000</u>	Sample No's: _____		Collected By: <u>DJM</u>

KEY TO SOIL SAMPLE FIELD SHEET

- Sample Number** - CRAE 6 or 7 digit No.
- East** - AHG or Local Grid Co-ordinate in m.
- North** - AHG or Local Grid Co-ordinate in m.
- Zone** - AHG Zone or L for Local Grid.
- Sample Type** - Mesh Size plus Auger (A); RAB (R).
- Rock, Sand, Silt, Clay, Org** - as t.
- Depth** - of sample below surface in m.
- Colour** -
- Horizon** - A, A/B, B, B/C, C, WB.
- Soil Type** - Skeletal (S), Residual (R), Colluvial (C), Alluvial (A), Transported (T), Laterite (L).
- Exposure Type** - (ie. Bedrock) Exposed (E), Subcrop (S), None (N).
- Depth to Bedrock** - (estimated) in m.
- Rock Type** - (Bedrock) - rock type code.
- Alteration** - alteration code.
- Vis. Min** - None (N), Trace (T), Disseminated (D), Abundant (A).
- Min. Type 1 & 2** - Mineral Code.
- Look** - Other item of interest recorded in 'geological observations' column, (Y/N).

ROCK TYPE CODE

Sediments - Clastic

Sedimentary Rock	SDRC
Conglomerate	COGC
Bracchia	BRC
Grit	GRIT
Sandstone	
Undiff	SDUD
Greywacke	GREY
Arkose	ARKS
Calcareous	CLAR
Siltstone	SILT
Shale	SNAL
Calcareous Shale	CLSR
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 Limestone	ARLM
Chert	CHER
Jasperoid	JASP
Evaporite	EVAP
Phosphate Rock	PHRC
Magnetite	MGST
Iron Formation	IRFM

Miscellaneous

Silcrete	SLRT
Calcrete	CLNT
Bauxite	BAUX
Ironstone	IRST
Laterite	LATR
Gossan	GOSS
Sulphides	SULP
Quartz Vein	QTVM
Greenal	GRES
Fuberite	FUBR

Volcanics

Agglomerate	AGLN
Lapilli Tuff	LVTF
Ash Flow Tuff	AFTF
Ignimbrite	IGNM
Crystal Tuff	CRTP
Volcanic Tuff	VVTF
Obelidian	OBSD
Mudflow	MUDF
Tuffaceous Sandstone	TFSS
Shale	TFSH
Basaltic Volc. Undiff	BVUD
Basalt	BSAL
Basaltic Lava	BSLV
Basaltic Pyroclast	BSPY
Intermediate Volc. Undiff	IVUD
Andesite	AMDS
Intermediate Lava	INLV
Pyroclastic	INPY
Acid Volc. Undiff	AVUD
Rhyolite	RYOL
Phyolite	PHYC

Igneous - Intrusives

Greenstone	GRGN
Ultrabasic Intr. Undiff	UIUD
Eciogite	ECLG
Peridotite	PERD
Serpentinite	SERP
Anorthosite	ANOR
Gabbro	GABR
Alkali Gabbro	ALGB
Morite	MORT
Picrite	PICR
Pyroxenite	PYRX
Dunite	DUNT
Carbonatite	CARB
Kimbrite	KIMB
Coarse Basic Intr.	CBIN
Med Basic Intr.	MBIN
Fine Basic Intr.	FBIN
Lampophyre	LAMP
Coarse Intermed Intr.	CIIN

Dacite	DACT
Trachyte	TRAC
Acid Lava	ACLV
Acid Pyroclast	ACPY

Metamorphic

Metamorphic Rock Undiff	MRUD
Bracchia	BRC
Mylonite	MLOM
Gouge	GOUG
Marble	MARB
Calc Silicate	CLSL
Skarn	SKAR
Morpho	MORM
Slate/Phyllite	SLAT
Quartzite	QTIT
Meta Sediment - Fine	MSFN
Meta Sediment - Coarse	MCCR
Metavolcanic	MTVL
Greenschist	GRSC
Schist Undiff	SCUD
Schist Mafic	SCMF
Schist Leuco	SCLE
Schist Amphibole	SCAM
Schist	
Andalusite	SCAN
Schist Biotite	SCBT
Schist Chlorite	SCCN
Schist Garnet	SCGR
Schist Muscovite	SCMS
Schist Nica	SCNC
Schist Pelitic	SCPL
Schist Psammitic	SCPS
Schist Sericite	SCSR
Schist Quartz	SCSQ
Nica	SCON
Schist	
Staurolite	SCST
Schist Talc	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	GNLT
Nigmatite	GNIG

Med Intermed Intr.	MIIN
Fine Intermed Intr.	FIIN
Syenite	SYEN
Dolerite	DOLR
Diorite	DIOR
Coarse Acid Intr.	CAIN
Medium Acid Intr.	MAIN
Fine Acid Intr.	FAIN
Granite	GRAM
Aplite	APLT
Adamellite	ADAM
Granodiorite	GRDR
Quartz Porphyry	QUPR
Quartz Feldspar Porphyry	QPPR
Granophyre	GRPH
Pegmatite	PEGM
Glass	GLAS

ALTERATION CODE

Argillization	ARGL
Albitization	ALBT
Calc Silicate	CLSL
Carbonatization	CARB
Chloritization	CHLR
Dolomitization	DOLM
Ferruginization	FERG
Kaolinization	KAOL
Potassic	POTS
Propylitization	PROP
Pyritization	PYRT
Saussurization	SAUS
Sericitization	SERC
Silicification	SILC
Talcosse	TALC
Tourmalinization	TOUP
Zeolitization	ZEOL
Other	OTRH

MINERAL CODE

Actinolite	ACTN
Adularia	ADUL
Agate	AGAT
Alkali Feldspar	ALFL
Albite	ALBT
Allanite	ALAN
Alunite	ALUN
Amblygonite	AMBL
Amethyst	AMET
Amphibole	AMPH
Andalusite	ANDL
Andesine	ANDS
Anhydrite	ANHY
Ankerite	ANKR
Anthophyllite	ANTH
Antimonite	ANTM
Antimony Native	ASNT
Apatite	APAT
Argonite	ARGC
Argentite	ARGN
Arsenic	ASMT
Arsenopyrite	ARPY
Asbestos	ASBS
Augite	AUGT
Azurite	AZUR
Berite	BART
Bastnaesite	BAST
Bauxite	BAUX
Bentonite	BEHT
Beryl	BERY
Biotite	BIOT
Blasuth	BINT
Blasuthinite	BISM
Bitumen	BITH
Boracite	BORC
Borax	BORX

Boulangerite	BOUL
Bronzite	BRON
Brucite	BRUC
Calcite	CALC
Carbonate	CARB
Carnotite	CARN
Cassiterite	CASS
Cerussite	CERS
Chalcocopyrite	CHCO
Chalcosite	CHCT
Chalcopyrite	CHPY
Chamosite	CHAM
Chert	CHER
Chlorite	CHLR
Chroite Diopside	CHDP
Chroite Spinel	CHSP
Chromite	CHRM
Chrysothite	CHRY
Cinnabar	CINN
Clay	CLAY
Clinopyroxene	CLPX
Clinzoisite	CLZS
Cobaltite	COBL
Collophane	COLP
Columbite	COLM
Copper	CPMT
Cordierite	CORD
Corundum	CORN
Covellite	COVL
Crocidolite	CRCL
Cryolite	CRYL
Cubanite	CUBN
Cunningtonite	CUNN
Cuprite	CUPR
Diamond	DIAM
Digenite	DIGN
Diopside	DIOP
Dolomite	DOLM
Electrum	ELEC
Emerald	EMER
Enargite	ENAR
Enstatite	ENST
Epidote	EPID
Evaporites	EVAP
Fayalite	FAYL
Feldspar	FELD
Ferberite	FERB
Ferrodolomite	FRDL
Fluorite	FLUR
Franchite	FRAN
Fuchsinite	FUCH
Gahnite	GAMN
Galena	GALM
Garnet	GARN
Garnierite	GRNT
Gibbsite	GIBS
Glass	GLAS
Glaucophane	GLPH
Gleuophane	GLPH
Goethite	GOET
Gold	AUHT
Graphite	GRAP
Grossularite	GRGS
Guanite	GUAN
Gypsum	GYPG
Halite	HALT
Hesslewoodite	HEAL
Hedenbergite	HEBN
Hematite	HEMT
Hornblende	HORN
Hübnerite	HUBN
Ilmenite	ILMN
Iron Oxides	FEOX
Jadeite	JADT
Jarosite	JARS
Jasper	JASP
Malin	MAOL
Nyanite	NYAN
sulfate	LARR
dolite	LEPD

Leucite	LEUC
Leucosene	LECS
Limonite	LIMS
Loellingite	LOEL
Magnetite	MAGH
Magnetite	MAGT
Magnetite	MAGT
Malachite	MALC
Manganite	MANG
Marcasite	MARC
Martite	MART
Melilite	MELT
Mercury	MNGT
Nica	NICA
Microcline	MICR
Molybdenite	MOLY
Monazite	MOMZ
Montmorillonite	MOMT
Muscovite	MUSC
Nepheline	NEPH
Nephrite	NFRY
Ochre	OCHE
Oligoclase	OLIG
Olivine	OLIV
Opal	OPAL
Orthoclase	ORCL
Orthopyroxene	ORPX
Pentlandite	PERT
Perthite	PERT
Phlogopite	PHLG
Phosphate	PHOS
Picro-ilmenite	PCIL
Pitcheblende	PITC
Plagioclase	PLAG
Platinum	PLMT
Potash Feldspar	PTFL
Prehnite	PREH
Proustite	PRDS
Pumpellyite	PUMP
Pyrrhotite	PYRH
Pyrite	PYRT
Pyrochlore	PYCH
Pyroclastite	PYLS
Pyromorphite	PYMR
Pyrope	PYRP
Pyrophyllite	PYPH
Pyroxene	PYRX
Pyrrhotite	PYRH
Quartz	QUAR
Rhodochrosite	RHCH
Rhodonite	RHOD
Rieschite	RIES
Ruby	RUBY
Rutile	RUTL
Salts	SALT
Sandine	SAND
Sapphirite	SAPH
Scapolite	SCAP
Scheelite	SCHE
Sericite	SERC
Serpentine	SERP
Siderite	SIDR
Silica	SILC
Silicate	SICT
Sillimanite	SILL
Silver	AGMT
Sulphate	SMIT
Smoky Quartz	SMQT
Specularite	SPEC
Spessartine	SPES
Sphalerite	SPHL
Sphene	SPHN
Spinel	SPIN
Stannite	STAN
Staurolite	STAR
Stibnite	STIB
Stilpnomelane	STIL
Sulphate	SLPT
Sulphides	SLPD
Sylvite	SYLV

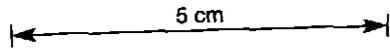
Talc	TALC
Tantalite	TANT
Telluride	TELR
Tennantite	TEMT
Tetrahedrite	TETR
Thoria	THOR
Topaz	TOPZ
Tourmaline	TOUR
Tronolite	TRON
Uraninite	URAN
Uranophane	URPH
Uranothorite	URTH
Vanadinite	VAND
Vesuvianite	VESV
Willemitte	WILM
Willyamite	WILY
Witherite	WITR
Wolfenite	WOLF
Wollastonite	WOLS
Zenolite	ZEOL
Zincite	ZINC
Zircon	ZIRC

CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL 177

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS						
	EAST	NORTH	Zone/IS	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure	Depth to Bedrock	Rock Type	Alteration	Vis. Min		Min. Type 1	Min. Type 2	Look			
1141734	5000	5000	14	PA	10	20	20	50		05		C				SILT						buff sandy clay + weathered shale fragments.			
735		5025			10	25	25	40		06		C				SILT						buff sandy clay + weathered siltstone frags.			
736		5050				20	30	50		10		C				SILT						grey brown clays + greyish siltstone fragments.			
737		5075				15	30	55		11		C				SILT						buff or clay reddish weathered shale fragments.			
738		5100			15	20	30	35		08		C				SILT						L. Or - buff clay, 933 gravel + shale fragments.			
739		5125			10	20	25	45		07		C				SILT						Or - buff clays + shale fragments.			
740		5150			10	15	15	60		09		C				SILT						Or - brown clays + shale fragments.			
		5175		NO	SAMPLE TAKEN																				
741		5200			15	20	25	50		09		C				SILT						Or - brown sandy clay + weathered shale fragments.			
742		5225			10	15	20	25	30	06		C				SILT/SUD						DK grey sandy clays, grey shale/siltstone fragments.			
743		5250			10	25	25	40		05		A				CLAY	ROAD CONTAMINATION					grey brown sandy soil + chert fragments. Chert used as road metal.			
744		5275				30	30	40		10		A				GRAN						grey-buff sandy soil + quartz gravel.			
745		5300				35	30	35		03		C				SILT/SUD	SERC?					L. grey gran silty/ssf. fragments + buff sandy soil.			
746		5325			15	25	30	30		05		A				GRAN						grey sandy soil + quartz gravel.			
747		5350				25	40	35		05		B										L. grey sandy clay.			
1141801		5375			10	25	30	35	10	06		C				SILT/SUD						L. grey sandy soil + grey silty/ssf. fragments.			
802		5400			10	25	25	25	15	07		C				SILT/SUD	SERC?					grey-brown sandy soil + grey micaceous silty/ssf. frags.			
803		5425			10	30	30	25	5	04		C				SILT/SUD						grey buff sandy soil + grey-buff.			

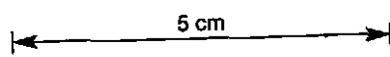


PROJECT SALMON RIVER GRID 1:250000 SHEET BORNIE SK55-3 COLLECTED BY DW MW ER DATE AUG 84
 TENEMENT ROCKY CAPE EL 1/77 SAMPLE NO.S 1141734-747, 1141801-803 LOCAL GRID CROSS REF _____
 INVESTIGATION LINE 5000 E (BASELINE) DPD'S 30494



229177

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS			
	EAST	NORTH	Zone/IS	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Depth to Bedrock	Rock Type	Alteration	Vis. Min		Min. Type 1	Min. Type 2	Look
1141766	5075	5000	L4	P.A.	10	50	30	10		1.2		A				GRAY						gray-white sand + quartz gravels.
767	5100				20	40	30	10		1.2		A				GRAY						gray sands + 913 gravels
768	5125				20	40	30	10		0.9		Mc				SSUD?						gray sands + 913 gravels + buff gray sandstone fragments.
769	5150				10	30	30	30		0.6		C				SSUD						greenish gray sands + 913 gravels + buff sandstone fragments.
770	5175				10	25	30	35		1.2		C				SITRL						greenish brown clay + weathered shale fragments.
771	5200				20	20	20	40		0.4		C				BLSH.						L. Or brown clay + black shale fragments.



PROJECT SALMON RIVER GRID 1:250000 SHEET BORNIE SK35-3 COLLECTED BY DJW MW IR DATE AUG 84
 TENEMENT ROCKY CAPE EL 1/77 SAMPLE NO.S 1141766-771 LOCAL GRID CROSS REF _____
 INVESTIGATION LINE 5000N DPO'S 30494



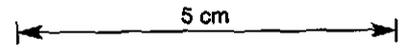
229178

CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL 179

SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS				
	EAST	NORTH	Zone/IG	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horiz (cm)	Soil Type	Exposure Type	Depth to Bedrock	Rock Type	Alteration		Vis. Min	Min. Type 1	Min. Type 2	Look
1141854	435D	5125	LG	P.A.		25	20	55		0.5		B										Light brown sandy clays.
855	4325				10	15	15	40	20	0.6		C										grey sandy clay + grey siltstone fragments.
1141758	5200	5125			10	25	30	35		0.4		C				SHAL						1. brown clay + shale fragments.
759	5175				15	25	25	35		0.8		C				SSUD						dk buff-grey sandy clay + weathered buff sandstone fragments.
760	5150				10	20	25	35	10	0.6		C				SILT						1. brown sandy clay + siltstone fragments.
761	5125				30	20	30	20		1.3		A				GRAY						1. grey sand + quartz gravels.
762	5100				10	20	20	50		1.2		A				GRAY						1. grey sand + quartz gravels.
763	5075				5	20	35	40		1.3		C				SDUD						as above + buff sandstone fragments.
764	5050				30	25	25	20		1.3		A				GRAY						1. grey sand + quartz gravels.
765	5025				10	20	30	40		0.7		C				SILT						grey sand + grey gravel + grey siltstone.



PROJECT SALMON RIVER GRID 1:250000 SHEET BORNIE SK 55-3 COLLECTED BY DW NW IR DATE AUG 84
 TENEMENT ROCKY CAPE E1/77 SAMPLE NO.S 1141854-855 1141758-765 LOCAL GRID CROSS REF _____
 INVESTIGATION LINE 5125N DPO'S 30494



229179

CRA EXPLORATION PTY LIMITED

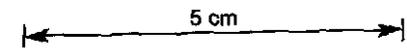
SOIL SAMPLE FIELD SHEET.

SL 180

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS			
	EAST	NORTH	Zone/LG	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure	Moisture	Rock Type	Alteration	Vis. Min		Min. Type 1	Min. Type 2	Look
1141829	4975	5125	14	PA	10	20	30	40		11		C		0		BLSH						1. buff greenish clays + black shale frag?
830	4950				5	20	30	45		10		C				BLSH						1. or-buff clay + bl. shale frag.
831	4925					20	25	55		12		C				BLSH						1. or-buff clay, 913 gravels + bl. shale.
832	4900				40	20	20		20	0.6		A				GRAN						buff sands + quartz gravels.
833	4875				10	30	35	20	5	0.7		A				GRAN						grey-white sands + quartz gravels.
834	4850				20	25	25	10	20	0.4		C				SHAL						grey-brown sandy clay + shale fragments.
835	4825				10	10	30	10	40	0.2		B		0		BLSH						Brown-orange clays.
836	4800				15	15	20	40	10	0.8		C				SHAL						or-brown clays + shale fragments
837	4775					20	30	50		0.7		C				SHAL						buff-grey sandy clay + grey shale fragments.
838	4750					20	30	50		1.0		C				SILT						1. grey sandy clay + grey siltstone fragments.
839	4725				10	20	30	40		0.8		C				SILT						greyish brown sandy soil + grey-bl. silt - siltstone fragments.
840	4700				10	25	20	35		1.0		C				SUD						buff-grey clay + buff sandstone + bl. shale fragments.
841	4675				15	20	25	30	10	0.9		C				SILT						greyish brown sandy clay + grey-bl siltstone fragments.
842	4650					25	25	40	10	0.5		C				SILT						1. or-buff clays + shale fragments.
843	4625				10	20	30	40		1.1		C				SILT						1. buff grey sandy clay + grey weathered siltstone fragments.
844	4600					25	25	50		1.2		C				SILT						1. or-buff clays + grey siltstone.
845	4575				15	15	25	45		0.8		C				SILT		T	PYR			1. or-buff clays + weath. black shale fragments. subbed py.
846	4550					20	25	55		0.7		B										1. or-brown clay.
847	4525				5	15	20	60		0.5		C				SILT						buff brown clays + weath. shale fragments.
848	4500				5	10	15	70		0.9		C				SILT						buff clays + shale fragments
849	4475					15	20	55	10	0.4		B										buff clays.
850	4450				5	15	20	60		1.1		C				SILT						grey-buff clays + siltstone frags.
851	4425				10	20	20	40	10	0.4		C				SILT						greyish brown sandy clay + grey siltstone / apt. fragments.
852	4400				10	15	15	50	10	0.4		C				SHAL						grey clay + black shale fragments.
853	4375				15	15	20	50		1.0		C				SILT						grey sandy clays + grey siltstone fragments.

220180

PROJECT SALMON RIVER GRID 1:250000 SHEET BURNIE SK 55-3 COLLECTED BY DM MW JR DATE AUG 1984
 TENEMENT ROCKY CAPE 621/77 SAMPLE NO.S 1141829-1141853 LOCAL GRID CROSS REF _____
 INVESTIGATION LINE 5125N DPO'S 30494

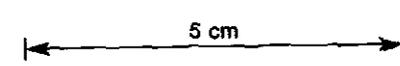


CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL 181

SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS			
	EAST	NORTH	Zone/G	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Rock Type	Alteration	Vis. Min		Min. Type 1	Min. Type 2	Look
1141753	5025	5250	Lg	PA	15	25	20	40		0.5		A			SILT/SOD						grey sands + 9/13 gravels + buff silt/sst fragments
754	5050				15	25	25	35		0.5		A			GRV						grey sand + quartz gravels.
755	5075				10	20	45	35		0.5		C			SHAL						grey sandy clays + 9/13 gravel + weath. shale fragments.
756	5100				10	20	30	40		0.9		C			SILT						grey-buff sand + 9/13 gravels + weath. siltst.
757	5125				10	25	25	40		1.0		A			GRV						grey brown sands + quartz gravels
	5150	NO SAMPLE TAKEN.																			
1141856	5025W 4975E	5250			10	30	30	10	20	1.3		A			GRV.						grey-brown sand + quartz gravels.
857	5050W 4950E				10	35	35	20		0.6		B/C			SOD/DET						l. brown sandy clay + quartz fragments.
858	5075W 4925E				10	35	30	25		0.8		C			SILT						l. grey-brown sandy clay, 9/13 gravels + siltstone fragment.
859	5100W 4900E				10	20	20	50		1.2		C			SHAL						l. buff-br clays + shale fragments
860	5125W 4875E				10	20	20	50		0.9		B									grey brown clay + quartz fragments
861	5150W 4850E					25	25	50		0.9		C			SHAL						greyish clay + grey shale/siltstone fragments.
862	5175W 4825E				45	30	30	15	10	0.5		B									greyish brown sands.
863	5200W 4800E				35	35	30			1.2		B/C			GRV.						l. grey sands + quartz fragments
864	5225W 4775E				15	20	30	35		0.7		C			SILT						greyish sandy clays + siltstone
865	5250W 4750E				15	15	70			1.2		C			SILT						As above.



PROJECT SALMON RIVER GRID. 1:250000 SHEET BURNIE SK55-3 COLLECTED BY DMW IR DATE AUG 84 181
 TENEMENT ROCKY CAPE EL1/77 SAMPLE NO.S 1141753-757, 1141856-865 LOCAL GRID CROSS REF _____
 INVESTIGATION LINE 5250N DPD's 30494



229181

CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET

SL 182

SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS				
	EAST	NORTH	Zone/G	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horiz. con	Silt Type	Exposure Type	Depth to bedrock	Rock Type	Alteration		Vis. Min	Min. Type 1	Min. Type 2	Look
1141748	5025	5350	L4	PA.	-	25	25	50	-	0.6		C				SILT/SSUD						grey-buff sandy clay + buff sandstone + weath. siltstone fragments
749	5050				10	15	20	55	-	1.0		C				SHAL						L. Or-brown clay + weathered shale fragments
750	5075					15	15	70		1.2		B										L. Or-buff clay
751	5100					15	15	70		1.3		B										L. Or-buff clays + quartz gravels
752	5125				15	15	20	50		0.5		B/C				SHAL						Dr. brown clays + grey shale fragments + grey gravels
1141772	4975	5350			30	25	30	15		1.0		M/C				SSUD						L. grey sand + quartz gravels + buff sandstone fragments
773	4950				20	30	30	10	10	0.4		M/C				SSUD						L. grey sand + quartz gravels + buff sandstone fragments
774	4925				20	35	30	15		0.9		A				GRAN						L. grey sand + quartz gravels
775	4900				30	60	20			0.6		A				GRAN						L. grey sand + quartz gravels
776	4875				20	60	20			1.0		A				GRAN						L. grey sandy soil + quartz gravels
777	4850				15	35	30			0.6		A				GRAN						L. grey sand + quartz gravels
778	4825				10	70	20			1.4		A				GRAN						greyish-white sandy soil + quartz gravels
779	4800				40	40	20			1.2		A				GRAN						greyish-white sandy soil + quartz gravels
780	4775				30	40	10	20	1.2			M/C				SSUD						Dr. grey sandy soil + grey gravels + buff sandstone fragments
781	4750				10	20	40	20	10	0.4		C				SHAL						buff-brown sandy soil + weath. grey shale fragments
782	4725				5	15	30	50		1.2		C				BLSH						Or-buff clay + black shale fragments
783	4700				15	35	50			1.0		C				SSUD						grey sandy soil + grey gravels
784	4675				10	20	30	40		0.7		A				GRAN						grey sandy soil + grey gravels
785	4650				10	25	35	30		0.8		C				SSUD						grey sandy soil + grey sst. fragments
786	4625				10	15	30	45		0.8		C				SSUD						grey sandy soil + grey sst. fragments
787	4600				15	25	60			0.7		C				SSUD						buff-grey sandy soil + grey sst. fragments
788	4575				5	15	20	55	5	0.4		C										buff-grey clay + grey sst. fragments
789	4550				5	15	15	65		1.1		B										buff clay
1141790	4525				10	25	35	30		0.5		C				SILT						buff grey clay + or. weathered siltstone/shale fragments

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PROJECT SALMON RIVER GRID

1:250000 SHEET BURNIE SK 55-3

COLLECTED BY MW, ER, DJW. DATE Aug 84 1984

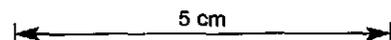
TENEMENT ROCKY CAPE E21/77

SAMPLE NO.S 1141748-790

LOCAL GRID CROSS REF

INVESTIGATION LINES 3504

DPO'S 30494



CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL 184

SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS			
	EAST	NORTH	Zone/IS	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Rock Type	Alteration	Vis. Min		Min. Type 1	Min. Type 2	Look
1141795	5150	5450	LG	P.A.	5	15	30	30		12											
796	5125				5	20	30	45		12											
797	5100					20	30	50		11											
798	5075				5	20	30	45		12											
799	5050				10	20	40		30	0.4											
800	5025	v			5	20	30	45		12											
1141804	5000	5450			10	20	35	35		0.8	C				SILT/SSUD						1. grey sandy soil + quartz gravels + grey mic siltst/ssl fragments
805	4975				5	20	35	40		0.4	C				SILT/SSUD						As above
806	4950				5	20	30	45		1.0	C				SILT/SSUD						As above
807	4925				20	25	35	10	10	1.0	A				GRAN						grey sandy soil + quartz gravels.
808	4900				25	20	30	10	15	0.4	A				GRAN						As above.
809	4875				25	25	30	10	11		A				GRAN						As above.
810	4850				40	25	20		15	0.8	A				GRAN						As above.
811	4825				15	35	35	10	5	1.2	A				GRAN						As above.
812	4800				20	60	20			1.3	A				GRAN						As above.
813	4775				20	40	30		10	0.8	C				SILT/SSUD						grey sandy soil + quartz gravels + grey siltst/ssl fragments.
814	4750				35	35	30			1.2	A				GRAN						grey - white sandy soil + quartz gravels.
815	4725					20	30	50		0.9	C				SILT/SSUD						grey sandy soil + qtz gravels + grey-buff soil siltst. fragments.
816	4700					20	30	40	10	0.4	C				BLSH.		T	PKT.			grey sandy soil + qtz gravels + v. weak lam shale + embedded py casts.
817	4675					20	35	45		0.3	C				SILT						grey sandy soil + qtz gravels + grey siltstone.
818	4650				5	25	35	30	5	1.0	C				SILT/SSUD						grey sandy soil + quartz gravels + grey siltst/ssl frags.
819	4625				10	20	35	35		1.2	C				BLSH						grey - buff sandy soil, qtz gravels + black cherty fragments.
820	4600					25	40	35		0.8	C				BLSH						grey sandy soil + black cherty fragments.
1141821	4575				20	30	50			1.0	C				SILT/SSUD						greyish or - buff clay minor qtz gravels + siltstone fragment

PROJECT SALMON RIVER GRD

1:25000 SHEET BURNIE SK 55-3

COLLECTED BY MWJ/R, DJW DATE AUG 84 1984

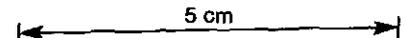
TENEMENT ROCKY CAPE EL 1/77

SAMPLE NO.S 1141795-800 1141804-821

LOCAL GRID CROSS REF

INVESTIGATION LINE 5450N

DPO'S 30494



229184

CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

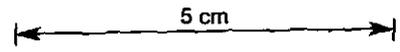
SL

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SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS				
	EAST	NORTH	Zone/IG	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure	Depth to bedrock	Rock Type	Alteration		Vis. Min	Min. Type 1	Min. Type 2	Look
1141822	4550	5450	14	P.A.	20	30	30			0.8		C				SILT						Grey-buff clays + qtz gravels + grey siltstone fragments
823	4525				25	35	40			0.6		A				GRAY						grey sandy soil + qtz gravels
824	4500				20	30	30	10	10	0.3		A				GRAY						As above.
825	4475				10	25	35	30		0.5		B				SSUD						buff-brown clay.
826	4450				30	20	30		20	0.5		C				SSUD						grey-brown sandy soil + qtz gravels + grey siltstone fragments
827	4425				30	20	35		15	0.7		A				GRM						grey sandy soil + quartz gravels
828	4400				10	30	60			0.8		C				SSUD						grey sandy soil + quartz gravels + grey siltstone fragments

229185

PROJECT SALMON RIVER GRID 1:250000 SHEET BORNE S255-3 COLLECTED BY J.M.W. IR DATE AUG 84 202
 TENEMENT ROCKY CAPE E21/77 SAMPLE NO.S 1141822 - 1141828 LOCAL GRID CROSS REF
 INVESTIGATION LINE 5450N DPO'S 30494



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229186



Australian Laboratory Services PTY. LTD.

CONSULTING ANALYTICAL CHEMISTS

LABORATORY REPORT

Office & Laboratory
32 Shand Street
Stafford, Q 4053
PO Box 66
Everton Park, Q 4053
Phone: (07) 352 5577
Telex: ALSEV 42344

INCORPORATED
IN AUSTRALIA

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

Page 1 of 2

Batch Number: **1024**

Contact: **MR. J. WEIR**
Order No. **D.P.O. 31915**

Sample Type: **SOIL Salmon R.**

No. of Samples: **10**
Date Received: **05/09/84**
Date Completed: **17/09/84**

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Fe % IC580	Ni ppm IC580
1141856		15 -	<5	10	0.58	70
1141857		15 -	<5	10	0.58	70
1141858		5 -	10	15	0.22	15
1141859		30	10	15	3.42	40
1141860		5	15	5	0.29	10
1141861		10	<5	10	0.61	40
1141862		5	<5	10	0.43	35
1141863		5	5	5	0.24	20
1141864		5	10	5	0.25	15
1141865		5 ✓	<5 ✓	10 ✓	0.44	20
Detection Limit.		2	5	2	0.01	5

Comments:

Plotted.



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Signatory: *G J Kilmister*

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CONSULTING ANALYTICAL CHEMISTS

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Incorporated
 in Queensland

Page 2 of 2

Client: **URA EXPLORATION PTY. LIMITED**
 Address: **P.O. BOX 138
 ROSHY PARK, TAS. 7018**

Batch Number: **0024**

Contact: **MR. J. WEIR**

No. of Samples: **10**
 Date Received: **05/09/84**
 Date Completed: **17/09/84**

Order No: **D.F.O. 31915**

Sample Type: **SOIL**

SAMPLE NUMBER	Element Unit Method	As ppm IC580	Au ppm PM209			
1141856		5	<0.01			
1141857		7	<0.01			
1141858		4	<0.01			
1141859		26	<0.01			
1141860		8	<0.01			
1141861		12	<0.01			
1141862		4	<0.01			
1141863		3	<0.01			
1141864		3	<0.01			
1141865		10 ✓	<0.01			
Detection Limit:		1	0.01			

Comments:



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Signatory:

Registered Laboratory

Australian Laboratory Services PTY. LTD.

CONSULTING ANALYTICAL CHEMISTS

LABORATORY REPORT

Incorporated in Queensland

Office & Laboratory
32 Shand Street
Stafford, Q. 4053
PO Box 66,
Everton Park, Q. 4053
Phone: (07) 352 5577
Telex: ALSEV 42344

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

Page 1 of 10

Batch Number: 4155

Contact: MR. J. WEIR

No. of Samples: 122
Date Received: 22/08/84
Date Completed: 31/08/84

Order No. D.F.O. 30494

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Cu	Pb	Zn	As	Fe
		ppm IC580	ppm IC580	ppm IC580	ppm IC580	% IC580
1141734		15	220	15	14	1.62
1141735		15	15	15	16	2.10
1141736		5	<5	10	9	0.35
1141737		5	15	10	4	0.24
1141738		10	5	15	4	0.42
1141739		5	25	10	6	0.37
1141740		5	<5	10	6	0.32
1141741		10	<5	20	16	3.57
1141742		15	10	25	5	0.66
1141743		5	20	10	4	0.41
1141744		2	10	10	3	0.19
1141745		2	5	5	2	0.16
1141746		2	15	10	2	0.25
1141747		2	<5	10	3	0.22
1141748		2	15	5	2	0.22
1141749		5	15	10	16	2.51
1141750		5	<5	10	12	1.93
1141751		10	<5	15	20	3.15
1141752		5	10	10	5	0.42
1141753		2	<5	10	2	0.27
1141754		2	<5	10	4	0.37
1141755		5	<5	15	2	0.28
1141756		2	10	10	5	0.31
1141757		2	15	10	3	0.30
1141758		2	<5	5	3	0.29
1141759		10	15	15	8	0.65
1141760		5	10	10	4	0.32
1141761		2	<5	5	2	0.22
1141762		5	<5	10	5	0.30
1141763		2 ✓	20 ✓	10	3	0.25
Detection Limit:		2	5	2 ✓	1 ✓	0.01

Comments:

*Salmon River
Notes*



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Signatory: *[Signature]*

229189

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 Telex: ALSEV 42344

Incorporated
 in Queensland

Page 2 of 10

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

Batch Number: H155

Contact: MR. J. WEIR

No. of Samples: 122

Order No. D.P.O. 30494

Sample Type: SOILS

Date Received: 22/08/84

Date Completed: 31/08/84

SAMPLE NUMBER	Element Unit Method	Mn ppm IC580	Au ppm PM209			
1141734		20	0.01			
1141735		20	<0.01			
1141736		<10	<0.01			
1141737		20	<0.01			
1141738		20	<0.01			
1141739		<10	<0.01			
1141740		10	<0.01			
1141741		30	<0.01			
1141742		20	0.01			
1141743		20	<0.01			
1141744		<10	<0.01			
1141745		<10	<0.01			
1141746		10	<0.01			
1141747		<10	<0.01			
1141748		10	<0.01			
1141749		<10	<0.01			
1141750		<10	<0.01			
1141751		10	<0.01			
1141752		10	<0.01			
1141753		20	<0.01			
1141754		20	<0.01			
1141755		<10	<0.01			
1141756		<10	<0.01			
1141757		10	<0.01			
1141758		10	<0.01			
1141759		10	<0.01			
1141760		10	<0.01			
1141761		10	<0.01			
1141762		10	<0.01			
1141763		10	<0.01			
Detection Limit:		5	0.01			

Comments:



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Signatory: *[Signature]*

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CONSULTING ANALYTICAL CHEMISTS

LABORATORY REPORT

Page 3 of 10

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

Batch Number: H155

Contact: MR. J. WEIR

No. of Samples: 122

Date Received: 22/08/84

Order No. D.P.O. 30494

Sample Type: SOILS

Date Completed: 31/08/84

SAMPLE NUMBER	Element Unit Method	Cu	Pb	Zn	As	Fe
		ppm IC580	ppm IC580	ppm IC580	ppm IC580	% IC580
1141764		2	10	10	2	0.22
1141765		5	20	10	4	0.39
1141766		2	15	5	<1	0.12
1141767		2	<5	5	<1	0.16
1141768		2	<5	2	<1	0.23
1141769		5	10	10	4	0.45
1141770		5	10	10	6	0.29
1141771		5	<5	10	12	1.23
1141772		2	10	5	<1	0.20
1141773		2	<5	5	<1	0.25
1141774		2	5	5	<1	0.11
1141775		<2	<5	2	<1	0.12
1141776		<2	75	2	<1	0.13
1141777		<2	20	2	<1	0.15
1141778		5	5	15	<1	0.16
1141779		5	5	10	<1	0.16
1141780		5	<5	10	<1	0.20
1141781		5	<5	20	2	0.27
1141782		5	<5	15	9	1.33
1141783		5	<5	10	2	0.16
1141784		5	<5	15	2	0.17
1141785		5	5	10	1	0.22
1141786		10	10	10	5	0.33
1141787		10	<5	15	8	0.72
1141788		5	<5	15	5	0.40
1141789		10	<5	15	7	1.08
1141790		5	<5	10	4	0.35
1141791		5	<5	10	5	0.67
1141792		15	25	15	4	0.29
1141793		5	<5	10	3	0.20
Section Limit:		2	5	2	1	0.01

Comments:

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Signatory: *G J Helms*

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in Queensland

Page 4 of 10

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

Batch Number: H155

Contact: MR. J. WEIR

No. of Samples: 122
Date Received: 22/08/84
Date Completed: 31/08/84

Order No. D.P.O. 30494

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Mn ppm IC580	Au ppm PM209			
1141764		10	<0.01			
1141765		20	<0.01			
1141766		<10	<0.01			
1141767		10	<0.01			
1141768		20	<0.01			
1141769		10	<0.01			
1141770		<10	<0.01			
1141771		20	<0.01			
1141772		10	<0.01			
1141773		20	<0.01			
1141774		<10	<0.01			
1141775		<10	<0.01			
1141776		<10	<0.01			
1141777		<10	<0.01			
1141778		10	<0.01			
1141779		10	<0.01			
1141780		10	<0.01			
1141781		10	<0.01			
1141782		10	<0.01			
1141783		<10	<0.01			
1141784		<10	<0.01			
1141785		10	<0.01			
1141786		<10	<0.01			
1141787		<10	<0.01			
1141788		<10	<0.01			
1141789		10	<0.01			
1141790		<10	<0.01			
1141791		10	<0.01			
1141792		10	<0.01			
1141793		<10	<0.01			
Detection Limit:		5	0.01			

Comments:



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Signatory:

Australian Laboratory Services PTY. LTD.

CONSULTING ANALYTICAL CHEMISTS

LABORATORY REPORT

Office & Laboratory
 32 Shand Street
 Stafford, Q. 4053
 PO Box 66,
 Everton Park, Q. 4053
 Phone: (07) 352 5577
 Telex: ALSEV 42344

Incorporated
 in Queensland

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

Page 5 of 10

Batch Number: H155

Contact: MR. J. WEIR
 Order No. D.P.O. 30494

No. of Samples: 122
 Date Received: 22/08/84
 Date Completed: 31/08/84

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	As ppm IC580	Fe % IC580
1141794		5 ✓	<5	10	4 ✓	0.22
1141795		15	<5	20	14	3.41
1141796		20	<5	20	14	3.61
1141797		15	<5	15	12	3.22
1141798		20	<5	15	16	4.34
1141799		15	<5	15	2	0.31
1141800		5	<5	10	10	1.30
1141801		5	<5	10	1	0.15
1141802		5	5	15	1	0.12
1141803		5	<5	5	1	0.13
1141804		10	5	10	2	0.13
1141805		10	<5	15	2	0.18
1141806		5	<5	15	2	0.19
1141807		5	<5	10	<1	0.14
1141808		5	5	5	<1	0.25
1141809		5	<5	10	<1	0.14
1141810		2	5	2	<1	0.11
1141811		5	<5	5	<1	0.08
1141812		5	5	15	<1	0.11
1141813		10	5	10	<1	0.37
1141814		5	<5	10	<1	0.19
1141815		5	<5	15	9	0.64
1141816		5	<5	10	4	0.49
1141817		5	<5	10	2	0.22
1141818		5	5	5	1	0.21
1141819		5	<5	10	6	0.38
1141820		5	<5	10	2	0.17
1141821		30	<5	15	18	1.71
1141822		10	<5	10	7	1.42
1141823		5 ✓	<5 ✓	10 ✓	3	0.31
Detection Limit:		2	5	2	1 ✓	0.01

Comments:



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

Batch Number: H155

Contact: MR. J. WEIR
Order No. D.P.O. 30494

Sample Type: SOILS

No. of Samples: 122
Date Received: 22/08/84
Date Completed: 31/08/84

SAMPLE NUMBER	Element Unit Method	Mn ppm IC580	Au ppm PM209			
1141794		<10	<0.01			
1141795		<10	<0.01			
1141796		10	<0.01			
1141797		10	<0.01			
1141798		<10	<0.01			
1141799		10	<0.01			
1141800		<10	<0.01			
1141801		<10	<0.01			
1141802		<10	<0.01			
1141803		<10	<0.01			
1141804		<10	<0.01			
1141805		10	<0.01			
1141806		<10	<0.01			
1141807		<10	<0.01			
1141808		20	<0.01			
1141809		10	<0.01			
1141810		<10	<0.01			
1141811		<10	<0.01			
1141812		<10	<0.01			
1141813		20	<0.01			
1141814		10	<0.01			
1141815		20	<0.01			
1141816		10	<0.01			
1141817		10	<0.01			
1141818		10	<0.01			
1141819		<10	<0.01			
1141820		<10	<0.01			
1141821		<10	<0.01			
1141822		10	<0.01			
1141823		10	<0.01			
Detection Limit:		5	0.01			

Comments:



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ent: CRA EXPLORATION PTY. LIMITED
address: P.O. BOX 138
ROSNY PARK, TAS. 7018

Batch Number: H155

contact: MR. J. WEIR

No. of Samples: 122
Date Received: 22/08/84
Date Completed: 31/08/84

Order No. D.P.O. 30494

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	As ppm IC580	Fe % IC580
1141824		5	<5	10	3	0.33
1141825		5	<5	10	4	0.31
1141826		5	<5	5	1	0.49
1141827		5	<5	10	2	0.32
1141828		5 ✓	<5 ✓	5 ✓	3 ✓	0.22
1141829		10	<5	5	10	2.31
1141830		20	<5	10	16	2.83
1141831		10	<5	15	14	3.52
1141832		5	<5	10	2	0.30
1141833		10	<5	15	3	0.40
1141834		5	<5	10	4	0.36
1141835		15	<5	15	4	0.37
1141836		10	<5	10	4	0.55
1141837		10	<5	10	3	0.20
1141838		5	5	10	4	0.37
1141839		2	20	10	2	0.18
1141840		2	15	5	2	0.13
1141841		2	<5	10	3	0.29
1141842		10	<5	10	8	0.96
1141843		5	<5	10	5	0.37
1141844		10	<5	15	8	1.50
1141845		20	<5	15	14	1.85
1141846		5	<5	10	10	0.66
1141847		10	<5	10	14	1.05
1141848		5	<5	15	10	0.81
1141849		5	<5	10	8	0.42
1141850		5	<5	15	14	0.57
1141851		5	<5	5	4	0.26
1141852		10	<5	15	5	0.44
1141853		5 ✓	<5 ✓	10	3	0.29
Section Limit:		2	5	2 ✓	1 ✓	0.01

Comments:

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

Batch Number: H155

Contact: MR. J. WEIR

No. of Samples: 122
Date Received: 22/08/84
Date Completed: 31/08/84

Order No. D.P.O. 30494

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Mn ppm IC580	Au ppm PM209		
1141824		20	<0.01		
1141825		10	<0.01		
1141826		30	<0.01		
1141827		20	<0.01		
1141828		<10	<0.01		
1141829		<10	<0.01		
1141830		<10	<0.01		
1141831		20	<0.01		
1141832		10	<0.01		
1141833		20	<0.01		
1141834		10	<0.01		
1141835		10	<0.01		
1141836		<10	<0.01		
1141837		<10	<0.01		
1141838		<10	<0.01		
1141839		<10	<0.01		
1141840		<10	<0.01		
1141841		<10	<0.01		
1141842		<10	<0.01		
1141843		<10	<0.01		
1141844		<10	<0.01		
1141845		<10	<0.01		
1141846		<10	<0.01		
1141847		<10	<0.01		
1141848		<10	<0.01		
1141849		10	<0.01		
1141850		<10	<0.01		
1141851		10	<0.01		
1141852		10	<0.01		
1141853		10	<0.01		
Detection Limit:		5	0.01		

Comments:



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

Batch Number: H155

Contact: **MR. J. WEIR**

No. of Samples: **122**
 Date Received: **22/08/84**
 Date Completed: **31/08/84**

Order No. **D.P.O. 30494**

Sample Type: **SOILS**

SAMPLE NUMBER	Element Unit Method	Cu	Pb	Zn	As	Fe
		ppm IC580	ppm IC580	ppm IC580	ppm IC580	% IC580
1141854		5	<5	10	3 ✓	0.31
1141855		5 ✓	<5 ✓	10	3 ✓	0.31
Detection Limit:		2	5	2	1	0.01

Comments:

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Signatory: *[Signature]*

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ent. CRA EXPLORATION PTY. LIMITED
ddress: P.O. BOX 138
ROSHY PARK, TAS. 7018

Batch Number: H155

oject: MR. J. WEIR

No. of Samples: 122

Date Received: 22/08/84

order No. D.P.O. 30494

Sample Type: SOILS

Date Completed: 31/08/84

SAMPLE NUMBER	Element Unit Method	Mn ppm IC580	Au ppm PM209			
1141854		10	<0.01			
1141855		20	<0.01			
			✓			
Detection Limit:		5	0.01			

omments:



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KEY TO ROCK SAMPLE FIELD SHEET

- Sample Number** - CRAE 6 or 7 digit No.
- East** - ANG or Local Grid Co-ordinate in m.
- North** - ANG or Local Grid Co-ordinate in m.
- Zone/LG** - ANG Zone or L for Local Grid.
- Sample Type** - DSR3 Code.
- From - To** - In a 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** - Mineralisation Code.
- Visible** - None visible (N), Trace (T), Disseminated (D), Abundant (A).
- Style** - Mineralisation Style Code.
- Major** - Mineral Code.
- Min. 1 & 2** - Mineral Code.
- Genque** - 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/M).

MOCK TYPE CODE		Sediments - Chemical	Volcanics
Sediments - Clastic		Carbonate - Undiff CRUD	Agglomerate AGLM
Sedimentary		Limestone LIMS	Lepilli Tuff LPTT
Rock	SDRC	Dolomite DOLM	Ash Flow Tuff AFTT
Conglomerate	CDMG	Travertine TRAV	Igneimbrite IGMB
Braccia	BREC	Argillaceous	Crystal Tuff CRTT
Grit	GRIT	Limestone	Vitric Tuff VITF
Sandstone		Chart	Oxidised OBSD
Undiff	USUD	Jasperoid	Chert
Greywacke	GREY	Evaporite	Chert
Arkose	ARKS	Phosphate Rock	Jasperoid
Calcarene	CLAR	Magnetite	Evaporite
Siltstone	SILT	Iron Formation	Phosphate Rock
Shale	SNAL		Magnetite
Calcareous			Iron Formation
Shale	CLSH		
Black Shale/			
Carb/Graphite	BLSC		
Oil Shale	OLSH		
Lignite	LIGN		
Coal-Black	CLBL		
Coal-Brown	CLBR		
Mudstone	MUDE		
Marl	MARL		
Clay	CLAY		
Tillite	TILL		

Tr. to	TRAC	Fine Interbed	FIIN	Asbestos	ASAS	Hornblende	HORN	Stannite	STAN	Amygdaloidal	AM
Ac	ACLV	Intr.	FIIN	Auriferous	AURF	Hubnerite	HUBN	Staurolite	STAR	Pyroclastic	PC
Acta P. last	ACPV	Syenite	SYEN	Azurite	AZUR	Ilmenite	ILMN	Stibnite	STIB	Flow Banded	FB

Metamorphics		Metamorphic Rock		Alteration Code		Alteration Code		Alteration Code		Alteration Code	
Diagenetic	DIAG	Undiff	MNUD	Argillisation	ANGL	Albitisation	ALBT	Calc Silicite	CLSL	Carbonatisation	CARB
Braccia	BREC	Braccia	BREC	Chloritisation	CHLR	Calc Silicite	CLSL	Chalcocite	CHCT	Chalcocopyrite	CHCP
Mylonite	MLOW	Mylonite	MLOW	Dolomitisation	DOLM	Chalcocite	CHCT	Chamosite	CHAM	Chert	CHER
Gouge	GOUG	Gouge	GOUG	Ferruginisation	FERR	Chalcopyrite	CHCP	Chert	CHER	Chlorite	CHLR
Narble	NARB	Narble	NARB	Kaolinisation	KAOL	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Calc Silicite	CLEL	Calc Silicite	CLEL	Potassic	POTS	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Skarn	SKAR	Skarn	SKAR	Propylitisation	PROP	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Mornfels	MORN	Mornfels	MORN	Pyritisation	PYRT	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Slate/Phyllite	SLAT	Slate/Phyllite	SLAT	Saundersitisation	SAUS	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Quartzite	QTZT	Quartzite	QTZT	Sericitisation	SERC	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Silicification	SILC	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Talcose	TALC	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Tourmalinisation	TOUR	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Zeolitisation	ZEOL	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Other	OTHR	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM

Metamorphics		Metamorphic Rock		Alteration Code		Alteration Code		Alteration Code		Alteration Code	
Diagenetic	DIAG	Undiff	MNUD	Argillisation	ANGL	Albitisation	ALBT	Calc Silicite	CLSL	Carbonatisation	CARB
Braccia	BREC	Braccia	BREC	Chloritisation	CHLR	Calc Silicite	CLSL	Chalcocite	CHCT	Chalcocopyrite	CHCP
Mylonite	MLOW	Mylonite	MLOW	Dolomitisation	DOLM	Chalcocite	CHCT	Chamosite	CHAM	Chert	CHER
Gouge	GOUG	Gouge	GOUG	Ferruginisation	FERR	Chalcopyrite	CHCP	Chert	CHER	Chlorite	CHLR
Narble	NARB	Narble	NARB	Kaolinisation	KAOL	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Calc Silicite	CLEL	Calc Silicite	CLEL	Potassic	POTS	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Skarn	SKAR	Skarn	SKAR	Propylitisation	PROP	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Mornfels	MORN	Mornfels	MORN	Pyritisation	PYRT	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Slate/Phyllite	SLAT	Slate/Phyllite	SLAT	Saundersitisation	SAUS	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Quartzite	QTZT	Quartzite	QTZT	Sericitisation	SERC	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Silicification	SILC	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Talcose	TALC	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Tourmalinisation	TOUR	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Zeolitisation	ZEOL	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Other	OTHR	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM

Metamorphics		Metamorphic Rock		Alteration Code		Alteration Code		Alteration Code		Alteration Code	
Diagenetic	DIAG	Undiff	MNUD	Argillisation	ANGL	Albitisation	ALBT	Calc Silicite	CLSL	Carbonatisation	CARB
Braccia	BREC	Braccia	BREC	Chloritisation	CHLR	Calc Silicite	CLSL	Chalcocite	CHCT	Chalcocopyrite	CHCP
Mylonite	MLOW	Mylonite	MLOW	Dolomitisation	DOLM	Chalcocite	CHCT	Chamosite	CHAM	Chert	CHER
Gouge	GOUG	Gouge	GOUG	Ferruginisation	FERR	Chalcopyrite	CHCP	Chert	CHER	Chlorite	CHLR
Narble	NARB	Narble	NARB	Kaolinisation	KAOL	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Calc Silicite	CLEL	Calc Silicite	CLEL	Potassic	POTS	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Skarn	SKAR	Skarn	SKAR	Propylitisation	PROP	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Mornfels	MORN	Mornfels	MORN	Pyritisation	PYRT	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Slate/Phyllite	SLAT	Slate/Phyllite	SLAT	Saundersitisation	SAUS	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Quartzite	QTZT	Quartzite	QTZT	Sericitisation	SERC	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Silicification	SILC	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Talcose	TALC	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Tourmalinisation	TOUR	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Zeolitisation	ZEOL	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Other	OTHR	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM

Metamorphics		Metamorphic Rock		Alteration Code		Alteration Code		Alteration Code		Alteration Code	
Diagenetic	DIAG	Undiff	MNUD	Argillisation	ANGL	Albitisation	ALBT	Calc Silicite	CLSL	Carbonatisation	CARB
Braccia	BREC	Braccia	BREC	Chloritisation	CHLR	Calc Silicite	CLSL	Chalcocite	CHCT	Chalcocopyrite	CHCP
Mylonite	MLOW	Mylonite	MLOW	Dolomitisation	DOLM	Chalcocite	CHCT	Chamosite	CHAM	Chert	CHER
Gouge	GOUG	Gouge	GOUG	Ferruginisation	FERR	Chalcopyrite	CHCP	Chert	CHER	Chlorite	CHLR
Narble	NARB	Narble	NARB	Kaolinisation	KAOL	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Calc Silicite	CLEL	Calc Silicite	CLEL	Potassic	POTS	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Skarn	SKAR	Skarn	SKAR	Propylitisation	PROP	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Mornfels	MORN	Mornfels	MORN	Pyritisation	PYRT	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Slate/Phyllite	SLAT	Slate/Phyllite	SLAT	Saundersitisation	SAUS	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Quartzite	QTZT	Quartzite	QTZT	Sericitisation	SERC	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Silicification	SILC	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Talcose	TALC	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Tourmalinisation	TOUR	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Zeolitisation	ZEOL	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM
Meta Sediment	MSPN	Meta Sediment	MSPN	Other	OTHR	Chromite	CHRM	Chromite	CHRM	Chromite	CHRM

GEOLOGICAL AGE CODE	
Quaternary	QU
Tertiary	TA
Cenozoic	CN
Cretaceous	CR
Jurassic	JR
Triassic	TR
Mesozoic	MS
Permian	PR
Carboniferous	CR
Devonian	DV
Silurian	SL
Ordovician	OR
Cambrian	CM
Paleozoic	PL
Adelaidian	AD
Carpenterian	CP
Lower Proterozoic	LP
Proterozoic	PR
Archaean	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
Glaasy	GL
Aphanitic	AF
Very Fine Grained	VF
Fine Grained	FG
Medium Grained	MG
Medium to Coarse	MC
Coarse Grained	CG
Very Coarse Grained	VG

TEXTURE CODE	
Boxworks	BW
Massive	MS
Bedded	BD
Cross Bedded	CB
Graded Bedding	GB
Modular	MD

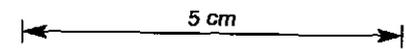
229198

CRA EXPLORATION PTY LIMITED

ROCK SAMPLE FIELD SHEET

RK

SAMPLE NUMBER	SAMPLE LOCATION			SAMPLE DESCRIPTION				ROCK TYPE			MINERALISATION							GEOLOGICAL OBSERVATIONS					
	East	North	Zone/UG	Sample Type	From	To	Width	Exposure	Major	Minor	Alteration	Visible	Stuffs	Major	Minor	Minor	Gangue		Age	Mineral	Grainsize	Texture	Colour
1142535	5000	5375	L9	GRAB				F	SSUD.		SERC							Pe	Feu	Fe	BD	br	Grey buff sl. micaceous sandstone.
1142536	4770	5450		GRAB				F	BLSH.			T DS		PYRT				Pe	Feu	Fe	BD	bl	Black shale, trace of fine brown py.
537	4685	5450		GRAB				F	SILT/SSUD									Pe	Feu	Fe	BD	grey	Grey siltstone -> sandstone.
539	4485	5450		GRAB				F	SILT/SSUD									Pe	Feu	Fe	BD	grey	Grey laminated siltstone.
540	4995	5350		GRAB				F	SILT/SSUD									Pe	Feu	Fe	BD	grey	Grey bedded siltstone.
541	5035	5450		CHIP	5035	5045		F	BLSH			DS	BD	PYRT				Pe	Feu	Fe	BD	bl	Black shale + brown py - euhedral along bedding.
542	5055	5350		GRAB				F	SILT									Pe	Feu	Fe	BD	wh	whish siltstone + black Mn? stained dendrites on joints.
543	5145	5280		GRAB				D	BLSH			DS	BD	PYRT				Pe	Feu	Fe	BD	bl	Euhedral py.
544	5090	5250		CHIP	5090	5075		F	BLSH			DS	BD	PYRT				Pe	Feu	Fe	BD	bl	
545	5205	5000		CHIP	5205	5225		F	BLSH									Pe	Feu	Fe	BD	bl	Black shale, more massive -> silst. No py.
546	5155	5125		GRAB				F	BLSH									Pe	Feu	Fe	BD	bl	
547	4975	5125		GRAB				D	BLSH			DS	BD	PYRT				Pe	Feu	Fe	BD	bl	black shale, weathered euhedral py Quarts.
548	4840	5185		GRAB				U	SILT									Pe	Feu	Fe	BD	grey	med. grey siltstone.
550	4725	5125		GRAB				F	SILT									Pe	Feu	Fe	BD	buff	buff siltstone -> sandstone.
551	4690	5125		GRAB				U	SSUD.									Pe	Feu	Fe	BD	buff	buff sandstone.
552	4675	5125		GRAB				F	BLSH.		FERG.							Pe	Feu	Fe	BD	bl	black shale -> sst. sl. hematitic.
553	4875	5125		GRAB				F	BLSH			DS	BD	PYRT				Pe	Feu	Fe	BD	bl	Lam. black shale + euhedral py.
554	4370	5125		GRAB				F	SILT.									Pe	Feu	Fe	BD	grey	greenish-grey siltstone



PROJECT SALMON RIVER GRID 1:250000 SHEET BURNIE SK 55-3 COLLECTED BY gmv DATE Sept 84
 TENEMENT ROCKY CAVE EZ 1/7Z SAMPLE NO.S 1142535-537 539-548 LOCAL GRID CROSS REF
 INVESTIGATION DPO 30560-* 549-554



229199

PROJECT
TENEMENT

GEOCHEMICAL SAMPLING LEDGER

DATES: 8-1-84

AREA / PROSPECT SARAWAK RIVER GRID

GEOLOGIST djn

SAMPLE TYPE ROCKS

PAGE NO. 17

SAMPLE NUMBER	GRID REF.	ANALYSES																DPD NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE				
		Cu	Pb	Zn	Ni	Co	Fe	Mn	As	Ag	Mo	Sr	W	Ba	Au.									
1142535		5	20	15	5	<5	0.98	20	6	<1	<5	<5	410	500	0.05							30500		
536		5	20	10	10	<5	1.22	15	8	<1	5	<5	410	520	0.02									
537		5	15	25	10	<5	1.97	20	4	<1	<5	<5	410	420	0.02									
539		5	20	20	5	<5	0.64	15	6	<1	<5	<5	410	460	0.01									
540		2	10	10	<5	<5	0.37	10	4	<1	<5	<5	410	420	<0.01									
541		35	25	15	10	<5	2.38	10	26	<1	5	<5	410	520	0.02									
542		15	20	15	10	<5	3.01	15	20	<1	10	<5	10	500	<0.01									
543		20	35	30	20	5	2.43	25	20	<1	5	<5	410	480	<0.01									
544		20	20	15	20	<5	2.26	15	14	<1	5	<5	410	510	0.01									
545		10	25	25	15	<5	1.53	20	14	<1	5	<5	410	460	0.01									
546		20	30	30	30	5	4.47	35	24	<1	15	<5	410	500	0.01									
547		25	20	20	10	<5	2.03	25	10	<1	10	<5	410	480	0.01									
548		2	20	15	10	<5	0.80	20	4	<1	<5	<5	410	540	<0.01									
550		2	15	10	15	<5	0.68	10	4	<1	<5	<5	410	490	<0.01									
551		2	15	10	10	<5	0.48	10	2	<1	<5	<5	410	350	0.01									
552		2	10	10	5	<5	0.36	5	4	<1	<5	<5	410	460	<0.01									
553		5	15	10	5	<5	0.55	10	6	<1	<5	<5	410	540	0.01									
554		2	10	10	<5	<5	0.40	10	5	<1	<5	<5	410	710	0.01									

229200

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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 (N)
- 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
Calcareous	CLAR
Siltstone	SILT
Shale	SHAL
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
Magnesite	MGST
Iron Formation ..	IRFM

Miscellaneous

Silcrete	SLRT
Calcrete	CLRT
Bauxite	BAUX
Ironstone	IRST
Laterite	LATR
Gossan	GOSS
Sulphides	SULP
Quartz Vein	QTVN
Green	GRES
Puabrite	FUBR

Volcanics

Agglomerate	AGLM
Lapilli Tuff	LPTF
Ash Flow Tuff ...	AFTF
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	GORG
Marble	MARB
Calc Silicate	CLSL
Skarn	SKAR
Hornfels	HORN
Slate/Phyllite ..	SLAT
Quartzite	QTZT
Meta Sediment -	
Fine	MSFN
Meta Sediment -	
Course	MCCR
Metavolcanic	
Greenschist	CRSC
Schist Undiff ...	SCUD
Schist Mafic	SCMF
Schist Leuco	SCLC
Schist Amphibole ..	SCAM
Schist	
Andalusite ...	SCAM
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	SCOM	Porphyry	OPPR
Schist		Granophyre	GRPH
Staurolite ...	SCST	Pegmatite	PEGM
Schist Talc	SCTL	Glass	GLAS
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	GNLT		
Migmatite	GNIG		

Igneous - Intrusives

Greenstone	GNEN
Ultrabasic Intr.	
Undiff	UIUD
Eclogite	ECLG
Peridotite	PERD
Serpentinite	SERP
Anorthosite	ANOR
Gabbro	GABB
Alkali Gabbro ...	ALGB
Norite	NORT
Picrite	PICR
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
Dissem. Sulphides	DSSL
Heavy Minerals	HVMN
Cu Staining	CUST
Magnetic Minerals	NGMN
Evaporites	EVAP
Argillisation	
Albitisation	ALBT
Calc Silicate	CLSL
Carbonatation	CARB
Chloritisation	CHLR
Dolomitisation	DOLM
Ferruginisation	FERG
Kaolinisation	KAOL
Potassic	POTS
Propylitisation	PROP
Pyritisation	PYRT
Saussurisation	SAUS
Sericitisation	SERC
Silicification	SILC
Talcose	TALC
Tourmalinisation	TOUR
Zeolitisation	ZEOL
Other	OTHR

201

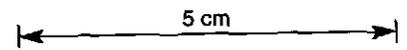
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GRA EXPLORATION PTY. LIMITED

STREAM SEDIMENT SAMPLE + FLD SHEET

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION							SITE DESCRIPTION							GEOLOGY				GEOLOGICAL OBSERVATIONS		
	East	North	Zone	Sample type	Gravel %	Sand %	Silt %	Clay %	Org %	Width	Catchment	Flow	Rocks	Channel	Staining	Contam.	Site	Outcrop	Float		Min/Air	Sink	Look	Veget.
	LOCAL GRD.	LOCAL GRD.																	Major	Minor				
1142538	44590	5450	SS	80#	5	20	15	40	20	0.5	205	S	B	W	-	-	R	-	GRAV					R
1142549	44810	5125	SS	80#	20	30	25	25		1.0	205	F	C	W			T	-	BLSH	SILT				R



229202

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PROJECT SALMON R. GRID 1:250 000 SHEET Bennie SK 55-3 COLLECTED BY DW
 TENEMENT ROCKY CAPE EL 1177 SAMPLE NOS 1142538, 549 DATE SEP 84
 INVESTIGATION DPO 30600



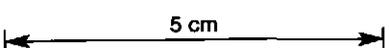
TASMANIA

CRA EXPLORATION PTY. LTD.

229204

P

Sample Number	LOCATION		SAMP DESC.		SITE DESC.				HEAVY MINS.			OUTCROP		METAL CONTENT ppm / %										Geological Observations					
	AMG Co-ordinates		S. Type	Start Wt. (Kg)	End Wt. (Kg)	Width (M)	Flow	Bank	Catchment	Vegetation	Staining	Contam.	Sit. Rating	Visible	Major	Minor	Minor	Outcrop	Flot	LOOK	Cu	Pb	Zn		Cr	Sn	W	Au. ppm	
	East	North																											
1142421			1	12.33								1	2	-1							10	10	45	7000	230	20	0.1	✓	2, heaped ^{fans} material ^{Sieved - 2mm}
402			1	15.34								1	3	5							175	15	140	>1% ₂	1765	40	0.4	✓	-
403			1	10.98								1	3	5							30	5	35	7200	635	30	<0.1	-	-
404			1	9.26								1	2	-1							50	10	130	>1% ₂	2020	40	0.2	-	-
405			1	14.06								1	3	5							30	5	40	9200	665	30	<0.1	-	-
406			1	8.83								1	2	-1							20	10	40	9200	345	20	<0.1	-	-
407			1	11.88								1	3	5							30	10	85	>1% ₂	1370	40	1.4	-	-
408			1	8.65								1	3	5							20	10	100	>1% ₂	2025	60	<0.1	-	-
409			1	6.86								1	2	-1							15	10	3	7000	565	60	0.3	-	-

GEOCHEMICAL PANNED CONCENTRATE SAMPLING LEDGER		DETECTION LIMIT		2	5	2	5	5	10	0.1
		ANALYTICAL METHOD		ICSSD	→	→	→	VIP IA	→	PM 209
Tenement Name: <i>Rocky Cape EL1177</i>		Project:		AMG Zone: <i>55</i>		Sheet No.:				
Area / Prospect: <i>STLMON R. PROSPECT</i>		DPO's: <i>30481</i>				Laboratory: <i>ALS Brisbane.</i>				
Map / Photo Ref: <i>SANDY CAPE 1:100 000</i>		Sample No's:				Collected By: <i>BJW</i>		Date: <i>16/1/84</i>		

APPENDIX 10

NORTH ARTHUR ANOMALIES

PETROLOGICAL REPORTS

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229200

Central Mineralogical Services



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

Mr. J. Weir
Geologist
C.R.A. Exploration Pty. Ltd.
P.O. Box 138
ROSNY PARK / TAS. 7018

23rd August, 1984

REPORT CMS 84/8/14

YOUR REFERENCE:	D.P.O. No. 30493
DATE RECEIVED:	9th August, 1984
SAMPLE NOS.:	6 Samples
SUBMITTED BY:	J. Weir
WORK REQUESTED:	Petrology

Copy to:
The Chief Geologist
C.R.A. Exploration Pty. Ltd.
G.P.O. Box 384D
MELBOURNE / VIC. 3001

H.W. Fander, M. Sc.

Copy & Invoice to:
Administration Officer
C.R.A. Exploration Pty. Ltd.
P.O. Box 138
ROSNY PARK / TAS. 7018

REPORT CMS 84/8/14

Six samples of variably weathered and ferruginised rock were received for petrological examination. Representative thin-sections were prepared, examined in transmitted light and, together with the respective offcuts, in oblique incident light. Attached tabulated descriptions summarise the microscopic data and include interpretative comments.

Summary

All six rocks are of altered and variably weathered basic-intermediate igneous origin. Primary compositional detail is obscured, but the majority exhibit relict textural features consistent with basaltic lavas and fragmentals (scoriaceous ?flow-marginal breccias). A coarser-grained microgabbroic ("doleritic") phase, represented by sample 1142470, is of intrusive character, but could represent the core of a relatively thick flow, dependent on field evidence. Sample 1142454 is tentatively classified as andesitic on relict textural grounds.

Alteration features are partly obscured by weathering effects, but are typically characterised by epidote-rich assemblages. Variations include chloritisation, phlogopitisation, and saussurite-uralite assemblages. Individual rocks may be weakly oxidised-pyritic. There is no tangible evidence of associated base metal sulphides, but weakly anomalous Cu-geochemistry may pertain as is more or less typical of altered basics.

D. Cowan, B. Sc.

Sample No.	Classification - Composition	Fabric	Accessories	Comments
14-2454 (T.S. 51119)	Altered ?Andesite. Partly degraded (illitised/Fe-stained) aggregates of muscovite, pale phlogopite with minor intergrown micro-crystalline quartz. Conspicuous fine oxidised/leucoxenised relict primary opaques.	Relict strongly porphyritic ("andesitic"), lava-like, with a microcrystalline ground-mass. Weakly phyllitic,	Minor chlorite, altered (phlogopitised) biotite flakes. Minor traces - relict primary apatite.	Thoroughly phlogopitised-sericitised intermediate lava or, conceivably, a semi-chilled minor intrusive. Andesitic relict textural characteristics. Finer detail obscured by alteration, weathering.
114-2456	Altered "Basaltic" Breccia. Various leucoxene-and limonite-pigmented kaolin and partly degraded chlorite with interspersed aggregates of cherty microcrystalline quartz; patchy partly degraded relics of sericite	Dimensionally orientated, poorly sorted, basaltic- to scoriaceous textured millimetric clasts. Degraded chloritic matrix.	Minor clots oxidised fine-grained pyrite in scoriaceous matrix.	Basic flow-marginal breccia-type characteristics. Alteration pattern obscured by weathering effects, but essentially chloritic.
114-2459	Altered Scoriaceous ?Basalt. Fine to micro-crystalline epidote with varying proportions of quartz and albite; sporadic clots, films of montmorillonitic clay, frequent late discontinuous quartz veinlets.	Scoriaceous, with sub- to millimetric albite-quartz amygdalae, epidotised featureless matrix.	Minor albitised feldspar-argillised-silicified ?pyroxene microphenocrysts. Rare fine oxidised pyrite.	Thoroughly epidote-albite-quartz (-clay) altered scoriaceous glassy ?basaltic lava. Vaguely brecciated/flow-structured, albite-quartz-matrixed.
114-2461	Epidotised "Basalt". Microcrystalline, ferromagnesian silicate (?pyroxene) lath-pseudomorphous epidote and chlorite-stained albite with conspicuous fine, similarly altered (chloritised/albitised) plagioclase microphenocrysts.	Flow-structured, microporphyritic, "basaltic".	Minor quartz, disseminated cloudy sphene (after primary titanopaques). Sporadic late quartz veinlets.	Thoroughly altered basic-intermediate volcanic, probably basaltic on relict textural grounds. Alteration assemblage closely analogous to that in 114-2459.
14-2470	Altered "Microgabbro". Montmorillonitic vaguely feldspar-pseudomorphous clay aggregates and ferruginised/degraded ferromag silicate laths with patchy corroded relics of secondary albite, conspicuous leucoxenised oxidised opaques.	Relict "doleritic" features; weakly subophitic.	Cloudy microcrystalline secondary sphene, ill-defined saussuritic material.	Thoroughly weathered hornblende microgabbro. Secondary clay, limonite assemblage apparently overprinted on saussurite-uralite (?deuteric) alteration.
14-2475 (T.S. 51124)	Epidotised "Basalt". Fine to microcrystalline partly ferruginised epidote, subordinate quartz with pervasive interstitial ferruginised indeterminate clay (?chlorite) aggregates. Sporadic late quartz veinlets.	Closely analogous to 114-2461; relatively flow-structured.	Cloudy microcrystalline secondary sphene (after primary titanopaques).	Close affinities with 114-2461, but with a relatively simple epidote-quartz-?chlorite alteration assemblage.

APPENDIX 11

NORTH ARTHUR ANOMALIES

SAMPLE LEDGERS AND ASSAY RESULTS

KEY TO SOIL 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** - AMG Zone or L for Local Grid.
- Sample Type** - Mesh Size plus Auger (A); RAB (R).
- Rock, Sand, Silt, Clay, Org** - as %.
- Depth** - of sample below surface in m.
- Colour** -
- Horizon** - A, A/B, B, B/C, C, WB.
- Soil Type** - Skeletal (S), Residual (R), Colluvial (C), Alluvial (A), Transported (T), Laterite (L).
- Exposure Type** - (ie. Bedrock) Exposed (E), Subcrop (S), None (N).
- Depth to Bedrock** - (estimated) in m.
- Rock Type** - (Bedrock) - rock type code.
- Alteration** - alteration code.
- Vis. Min** - None (N), Trace (T), Disseminated (D), Abundant (A).
- Min. Type 1 & 2** - Mineral Code.
- Look** - Other item of interest recorded in 'geological observations' column, (Y/N).

ROCK TYPE CODE		Sediments - Chemical		Volcanic	
Sediments - Clastic					
Sedimentary	Rock	Carbonate	Undiff	Agglomerate	AGLN
Conglomerate	CONG	Limestone	LIMS	Lapilli Tuff	LPTF
Breccia	BREC	Dolomite	DOLM	Ash Flow Tuff	AFTF
Grit	GRIT	Travertine	TRAV	Igneobrite	IGNB
Sediments - Metasedimentary					
Sandstone	UNDIFF	Chert	CHER	Crystal Tuff	CTTF
Undiff	SSUD	Jasperoid	JASP	Vitric Tuff	VTF
Greywacke	GREY	Evaporite	EVAP	Obsidian	OBSD
Arkose	ARKS	Phosphate Rock	PHRC	Mudflows	MUDF
Calcareous	CLAR	Magnetite	MGST	Tuffaceous	TFSS
Siltstone	SILT	Iron Formation	IRFM	Sandstone	TFSS
Shale	SMAL	Miscellaneous			
Calcareous	CLSN	Silcrete	SLRT	Basalt	BASL
Black Shale/Carb/Graphite	BLSN	Calcrete	CLRT	Basic Lava	BELV
Oil Shale	OLSN	Andesite	ANDS	Basic Pyroclast	BSPY
Lignite	LIGN	Intermediate Lava	INLV	Intermediate Volc.	INTV
Coal-Black	CLBL	Ironstone	IRST	Undiff	IUSD
Coal-Brown	CLBR	Laterite	LATR	Andesite	ANDS
Mudstone	MUDS	Gossan	GOSS	Intermediate Lava	INLV
Harl	HARL	Sulphides	SULP	Intermediate	INTV
Clay	CLAY	Quartz Vein	QTVM	Pyroclastic	INPY
Tillite	TILL	Granite	GRES	Acid Volc.	AVUD
		Fuberite	FUBR	Undiff	AVUD
				Rhyolite	RMYL
				Rhyolite	RMYL
				Rhyolite	RMYL

Dacite	DACT	Med Intermed	MIIN
Trachyte	TRAC	Intr.	MIIN
Acid Lava	ACLV	Fine Intermed	FIIN
Acid Pyroclast	ACPY	Intr.	FIIN
Metamorphic			
Metamorphic Rock			
Undiff	MUDR	Syenite	SYEN
Breccia	BREC	Dolerite	DOLA
Hyalonite	HYAL	Diorite	DIOR
Gouge	GOUG	Coarse Acid Intr.	CAIM
Marble	MARB	Medium Acid Intr.	MAIM
Calc Silicate	CLSL	Fine Acid Intr.	FAIM
Skarn	SKAR	Granite	GRAM
Hornfels	HORN	Aplite	APLT
Slate/Phyllite	SLAT	Adamellite	ADAM
Quartzite	QTZT	Granodiorite	GRDR
Meta Sediment		Quartz Porphyry	QUPR
Fine	NSFM	Quartz Feldspar Porphyry	OPPR
Meta Sediment		Granophyre	GRPM
Course	MCCR	Pegmatite	PEGM
Meta Volcanic	MTVL	Glass	GLAS
Greenachist	GRSC	ALTERATION CODE	
Schist Undiff	SCUD	Argillisation	ARGL
Schist Mafic	SCMF	Albitisation	ALBT
Schist Leuco	SCLC	Calc Silicate	CLSL
Schist Amphibole	SCAM	Carbonatization	CARB
Schist		Chloritization	CHLR
Andalusite	SCAN	Dolomitization	DOLM
Schist Biotite	SCBT	Ferruginization	FERG
Schist Chlorite	SCCM	Kaolinization	KAOL
Schist Garnet	SCGA	Potassic	POTS
Schist Muscovite	SCMS	Propylitization	PROP
Schist Mica	SCMC	Pyritization	PYRT
Schist Pelitic	SCPL	Saunderitization	SAUS
Schist Psammitic	SCPS	Sericitization	SERC
Schist Sericite	SCSR	Silicification	SILC
Schist Quartz		Talcose	TALC
Mica	SCQM	Tourmalinization	TOUR
Schist		Zeolitization	ZEOL
Staurolite	SCST	Other	OTHR
Schist Talc	SCTL	MINERAL CODE	
Amphibolite	AMPH	Actinolite	ACTN
Gneiss Undiff	GNUD	Adularia	ADUL
Gneiss Mafic	GNMF	Agate	AGAT
Gneiss Leuco	GNLC	Alkali Feldspar	ALFL
Gneiss Amphibole	GNAM	Albite	ALBT
Gneiss Augen	GNAG	Allanite	ALAN
Gneiss Biotite	GNBT	Alunite	ALUN
Gneiss Garnet	GNGT	Ambygonite	AMBL
Gneiss Granite	GNGR	Aethyrt	AMET
Gneiss		Amphibole	AMPN
Sillimanite	GNEL	Andalusite	ANDL
Gneiss		Andesine	ANDS
Staurolite	GNST	Anhydrite	ANHY
Granulite	GNLT	Ankerite	ANKR
Migmatite	GNIG	Anthophyllite	ANTH
		Antsonite	ANTH
		Antimony Native	SBNT
		Apatite	APAT
		Argonite	ARAG
		Argentite	ARGN
		Arsenic	ASNT
		Arsenopyrite	ARPY
		Asbestos	ASBS
		Augite	AUGT
		Azurite	AZUR
		Baite	BART
		Bastnaesite	BAST
		Bauxite	BAUX
		Bentonite	BENT
		Beryl	BERY
		Biotite	BIOT
		Bismuth	BSMT
		Bismuthinite	BSMT
		Bitumen	BITH
		Boracite	BORC
		Borax	BORX
		Boulangerite	BOUL
		Bronzite	BRON
		Brucite	BRUC
		Calcite	CALC
		Carbonate	CARB
		Caronite	CARM
		Cassiterite	CASS
		Cassite	CELS
		Cerussite	CERS
		Chalcocopyrite	CHCO
		Chalcocite	CHCT
		Chamosite	CHAM
		Chert	CHER
		Chlorite	CHLR
		Chromite	CHRM
		Chromite	CHRM
		Chrysoile	CHRY
		Cinnabar	CIIN
		Clay	CLAY
		Clinopyroxene	CLPX
		Clinzoisite	CLZS
		Cobaltite	COBL
		Collophane	COLP
		Coluabite	COLM
		Copper	CPMT
		Cordierite	CORD
		Corundum	CORU
		Covellite	COVL
		Crocidolite	CRCD
		Cryolite	CRYL
		Cubanite	CUBN
		Cumingtonite	CUMN
		Cuprite	CUPR
		Diamond	DIAM
		Digenite	DIGN
		Diopside	DIOP
		Dolomite	DOLM
		Electrum	ELEC
		Emerald	EMER
		Enargite	ENAR
		Enstatite	ENST
		Epidote	EPID
		Evaporites	EVAP
		Fayalite	FAYL
		Feldspar	FELD
		Ferberite	FERB
		Ferrodolomite	FRDL
		Fluorite	FLUR
		Frankelite	FRAN
		Fuchsite	FUCH
		Gahnite	GAMN
		Galena	GALN
		Garnet	GARN
		Garnierite	GNRT
		Gibbsite	GIBS
		Glauc	GLAS
		Glaucophane	GLAC
		Gleuconite	GLCP
		Gleuconite	GLCP
		Gothite	GOET
		Gold	AUNT
		Graphite	GRAP
		Grossularite	GRGS
		Guano	GUAN
		Gypsum	GYPG
		Halite	HALT
		Heazlewoodite	HEAZ
		Hedenbergite	HEDN
		Hematite	HEMT
		Hornblende	HORN
		Hubnerite	HUBN
		Ilmenite	ILMN
		Iron Oxides	FEOX
		Jadeite	JADT
		Jarosite	JARS
		Jasper	JASP
		Kaolin	KAOL
		Kyanite	KYAN
		Labradorite	LABR
		Lepidolite	LEPD
		Leucite	LEUC
		Leucosene	LCEN
		Limonite	LIMN
		Lowlingite	LOXL
		Magnetite	MAGN
		Magnetite	MAGN
		Malachite	MALC
		Manganite	MANG
		Marcaite	MARC
		Martite	MART
		Melilite	MELT
		Mercury	HGNT
		Mica	MICA
		Microcline	MICR
		Molybdenite	MOLY
		Monazite	MONZ
		Montmorillonite	MONT
		Muscovite	MUSC
		Nepherine	NEPH
		Nephrite	NEPH
		Ochre	OCHR
		Oligoclase	OLIG
		Olivine	OLIV
		Opal	OPAL
		Orthoclase	ORCL
		Orthopyroxene	ORPX
		Pentlandite	PENT
		Perthite	PERT
		Phlogopite	PHLG
		Phosphite	PHOS
		Picro-ilmenite	PCIL
		Pitchblende	PITC
		Plagioclase	PLAG
		Platinum	PTMT
		Potash Feldspar	PTFL
		Prehnite	PREH
		Proustite	PROS
		Pumpellyite	PUMP
		Pyrrhotite	PYAR
		Pyrite	PYRT
		Pyrochlore	PYCH
		Pyroclast	PYLS
		Pyromorphite	PYMR
		Pyrope	PYRP
		Pyrophyllite	PYPH
		Pyroxene	PYRX
		Pyrrhotite	PYRM
		Quartz	QUAZ
		Rhodochrosite	RHCH
		Rhodonite	RHOD
		Riesbeckite	RIEB
		Ruby	RUBY
		Rutile	RUTL
		Salts	SALT
		Sandine	SAND
		Sapphire	SAPH
		Scapolite	SCAP
		Scheelite	SCHE
		Sericite	SERC
		Serpentine	SERP
		Siderite	SIDR
		Silica	SILC
		Silicate	SICT
		Sillimanite	SILL
		Silver	AGNT
		Sulphur	SNIT
		Sulphur	SNIT
		Specularite	SPES
		Sphalerite	SPHL
		Sphene	SPHN
		Spinel	SPIN
		Stannite	STAN
		Staurolite	STAR
		Stibnite	STIB
		Stilpnomelane	STIL
		Sulphate	SLPT
		Sulphides	SLPD
		Sylvite	SYLV

CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL 11

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS			
	EAST	NORTH	Zone/G	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Depth to Bedrock	Rock Type	Alteration	Vis. Fin		Min. Type 1	Min. Type 2	Look
1141508	5000	5000	SS	80PA	-	30	10	-	-	1.2	L. Grey	C	R	S		QTZT						L. grey sandy soil c rounded quartz fragments → Quartz gravels.
509	5050				10	70	10	-	-	0.8	L. Grey	C	R	-		QTZT						Angular qtzite frags, friable → Sst?
510	5100				10	70	20	-	-	1.0	L. grey-brown	C	R	-		QTZT						Angular, friable qtzite fragments → Sst?
511	5150				20	60	20	-	-	0.7	L. grey-brown	C	R	-		QTZT						Angular Qtzite → Sst. fragments.
512	5200				20	80	-	-	-	1.2	L. grey-brown	C	R	-		QTZT						Angular Qtzite → Sst. fragments.
513	5250				30	50	20	-	-	1.2	L. grey-brown	C	R	-		QTZT						Angular Qtzite → Sst fragments.
514	5300				20	50	30	-	-	0.8	L. grey-brown	C	R	-		CHER						Angular Qtzite + Black chert fragments.
515	5350				5	35	35	25	-	0.7	L. grey-brown	C	R	S		QTZT-CHER						Angular Qtzite frags. Abundant rounded qtzite gravel float.
516	5375				30	40	20	10	-	1.1	L. grey-brown	C	R	-		QTZT						Angular Qtzite frags. Abundant qtzite gravel float.
517	5400				5	15	40	40	-	0.5	L. grey-brown	B	R	-		GRAY						Rounded qtzite fragments. Abundant qtzite gravel float.
518	5425				-	20	20	50	-	1.0	DK. grey	C	R	-		CHER						Grey-black chert fragments.
519	5450				10	20	30	40	-	0.7	DK. Brn-black	B	R	-		GRAY						Quartz gravel.
520	5475				10	10	10	70	-	0.9	Yell-brown	C	R	-		FRCT						Siliceous, ferruginous fragments - ferric?.
521	5500				-	20	20	60	-	0.7	Yell-buff	C	R	-		MUDS						f.g. laminated mudstone fragments. Some ferruginous.
522	5525				10	20	10	60	-	0.8	Yell-brown	C	R	S		MUDS						Greenish mudstone fragments + mudstone float.
523	5550				10	20	10	60	-	0.9	L. or -brown	C	R	-		MUDS?						m-cg. mudstone? fragments. float: spotted greenish tuffaceous rock? basalt?
524	5575				10	20	20	50	-	0.8	Or. Red-brown	C	R	-		MUDS						v. weather, ferruginous mudstone fragments.
525	5600				10	20	20	50	-	0.4	Red-brown	C	R	-		SILT						ferruginous siltstone fragments.
526	5625				10	20	20	50	-	0.4	Yell-brown	C	R	-		MUDS						f. laminated ferruginous mudstone fragments.
527	5650				-	10	20	70	-	1.0	L. buff-yell	C	R	-		MUDS						brown-black mudstone fragments.
528	5675				10	10	10	70	-	0.8	L. yell-brown	C	R	-		MUDS?						highly ferruginous (laminated?) fragments - after mudstone?
529	5700				-	20	10	70	-	1.0	Yell-buff	B/C	R	-								ferruginous, siliceous pschitic? fragments.
530	5725				-	20	10	70	-	1.2	L. or - buff	B/C	R	-								ferruginous, siliceous pschitic? fragments.
531	5750				10	20	20	50	-	0.6	red-brown	C	R	S		TFSH						v. weathered, orange, earthy textured fragments float: reddish pink tuffaceous mudstone?

229211

5 cm

PROJECT NORTH ARTHUR NEREMAG ANOMALIES 1:250000 SHEET BORNIE SK 55-3.

COLLECTED BY MW, I.R., DJW DATE July 1984.

TENEMENT ROCKY CAPE EL 1/77

SAMPLE NO.S 1141508 - 531

LOCAL GRID CROSS REF 5000 N | 5000 E

INVESTIGATION RED ANOMALY

DPO'S 2492



182

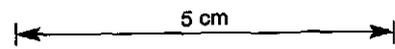
CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL 16

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS			
	EAST GRID	NORTH GRID	Zone/G	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Notes to Bedrock	Rock Type	Alteration	Vis. Min		Min. Type 1	Min. Type 2	Look
1141532	5775	5000	SS	BP.A.	10	20	10	60	-	1.2	L. yell-Or	C	R	-		BASL?					Y	v.f.s. greenish-grey rock - basalt?
533	5800				1	5	5	90	-	1.0	L. Buff-grey	C	R	-								ferrug, siliceous psolite? Ferricrete? fragments
534	5825				10	5	5	80	-	1.1	L. Buff-brown	C	R	S								basalt frags? 3c basalt? ferrug. spotting.
535	5850				10	5	5	80	-	1.0	Or-buff	Blk	R	-								
536	5875				1	10	10	80	-	0.8	Or-buff	Blk	R	-								
537	5900				1	10	10	80	-	0.8	Or-buff	Blk	R	-								minor ferricrete? psolite fragments.
538	5925				10	10	10	70	-	1.0	Or-buff	C	R	-		MUDS.						laminated ferruginous psolite? fragments appears like ferruginous mudstone.
539	5950				1	10	10	80	-	0.9	Or-buff	Blk	R	-		MUDS						ferruginous mudstone-shale fragments
540	5975				1	15	15	70	-	1.0	Red-Or	Blk	R	-		SILT?						Or-med earthy textured Siltst? - tuffaceous Siltst?
541	6000				1	10	10	80	-	0.6	Red-brown	Blk	R	-		FRCT					Y	highly ferrug ferricrete? frags.
542	6025				1	10	10	80	-	0.6	Red-brown	C	R	-								f.s. v. weathered orange fragments. - basalt float nearby. -> greenish earthy texture.
543	6050				1	10	80	60	-	1.1	Red-purple	Blk	R	-							Y	Black Mn nch? fragments.
544	6075				15	5	10	70	-	0.9	Dr. Or-buff	C	R	-		FRCT					Y	ferruginous Ferricrete? fragments.
545	6100				10	10	10	70	-	1.0	Or-buff	Blk				FRCT						ferruginous ferricrete fragments. Float! red-purple laminated tuffaceous shale?
546	6125				15	15	10	60	-	0.9	L. Or-buff	C				TFSH						tuffaceous shale fragments. Float! green, earthy fine rock - full shale - basalt?
547	6150				1	10	20	70	-	1.1	L. Or-buff	Blk				FRCT					Y	ferruginous ferricrete? psolite? fragments.
548	6175				1	20	10	70	-	1.0	L. grey buff	Blk				FRCT					Y	ferruginous, siliceous fragments.
549	6200				1	20	20	60	-	1.0	L. Buff-brown	Blk										
550	6225				1	15	15	70	-	1.2	L. Buff-brown	Blk										
551	6250				1	10	30	60	-	1.2	L. Buff-grey	Blk				QTUN						Angular quartz fragments.
552	6300				1	10	30	60	-	1.3	L. Buff-grey	Blk				QTUN						Angular quartz fragments

229212



PROJECT NORTH ARTHUR AEROMAGNETIC ANOMALIES 1:250000 SHEET BURNIE SK 55-3 COLLECTED BY M.W.I.R., D.J.W. DATE July 84
 TENEMENT ROCKY CAPE E1177 SAMPLE NO.S 1141532 - 552 LOCAL GRID CROSS REF
 INVESTIGATION RED ANOMALY DPO'S 30492



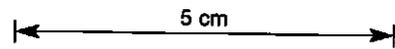
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CRA EXPLORATION PTY LIMITED

ROCK SAMPLE FIELD SHEET

RK

SAMPLE NUMBER	SAMPLE LOCATION			SAMPLE DESCRIPTION				ROCK TYPE			MINERALISATION						GEOLOGICAL OBSERVATIONS					
	East GRID	North GRID	Zone / LG	Sample Type	From	To	Width	Exposure	Major	Minor	Alteration	Visible	Style	Major	Minor	Minor	Conspic	Age	Grain Size	Texture	Colour	Notes
1142451	5510	5000	55	GRAB				U						MDS				E?	FF	BD	Grn	Red-brown weathered ss. and calc - dk green-grey when fresh.
1142452	5535	5000	55	GRAB				U						LATR					CG	MS	Gr.	White - Ferriferous?
1142454	5550E	5000	55	GRAB				F						TFSH					MG	BD	Grn	Spotted green tuffaceous mudstone float.
1142455	5595	5000	55	GRAB				F						GSS					MS	BD	Grn	Minor coarse, open exposures.
1142456	5620	5000	55	GRAB				F						GSS					CG	BD	Grn	Coarse grey laminated rock, - spotted, ferruginous after Sulphides?
1142457	5740	5000	55	GRAB				F						TFSH					MG	BD	Grn	Pale pink-purple tuffaceous shale - earthy texture. Fragmental?
1142458	5825	5000	55	GRAB				H						BASL					FG	MS	BL	Light greenish-black basalt? Ferruginous and opaline. Light colored massive rock. - Gls phenocrysts + feldspars? - Rhyolite?
1142459	5905	5000	55	GRAB				F											CG	BA	Gr.	
1142460	5965	5000	55	GRAB				U						BASL?					MG	MS	Grn	V. weathered brown rock, - basalt? med. grained, rounded boulders. Tuffaceous? earthy texture.
1142461	5985	5000	55	GRAB				F						BASL?								Orange, ferrug, earthy textured float. - basalt??
1142462	6070	5000	55	GRAB				F						BASL?					FG	MS		Weathered basalt float.
1142463	6110	5000	55	GRAB				F						TFSH					MG	BD	Grn	Med. grained grey-green weathered tuff?



PROJECT NORTH ARTHUR ANOMALIES 1:250000 SHEET BURNIE SE 55-3 COLLECTED BY D.J.W. DATE 2/8/84
 TENEMENT ROCKY CAPE EL1/77 SAMPLE NO.S _____ LOCAL GRID CROSS REF 5000N/5000E
 INVESTIGATION RED ANOMALY LINE 5000N DPO'S 30495



229214

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS		
	EAST	NORTH	Zone/G	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Soil to Bedrock	Rock Type	Alteration	Vis. Min		Min. Type 1	Min. Type 2
1141553	5000	5000	55	PA	-	80	10	-	-	0.6	grey-brown	C	R	0		QTZT					Angular quartzite fragments.
554	5050				20	70	10	-	-	0.8	grey-brown	C	R	-		QTZT					Angular white-buff quartzite fragments.
555	5100				-	70	30	-	-	1.0	grey-brown	C	R	-		QTZT					Angular quartzite fragments.
556	5150				30	50	20	-	-	0.8	grey-brown	C	R	-		QTZT					Angular quartzite fragments.
557	5200				-	60	30	-	10	1.1	grey-brown	C	R	-		QTZT					Angular quartzite fragments.
558	5250				-	70	20	-	10	0.9	light grey-brown	C	R	-		QTZT					Angular quartzite fragments.
559	5300				30	30	20	-	20	0.5	grey-brown	C	R	-		QTZT					Angular quartzite fragments.
560	5350				10	80	10	-	-	1.2	light grey-brown	C	R	-		QTZT					Angular quartzite fragments.
561	5375				10	80	10	-	-	1.2	light grey-brown	C	R	-		QTZT					Angular quartzite fragments.
562	5400				30	20	40	-	10	1.2	light grey	C	R	-		CHER					Angular quartzite fragments. Some v. white -> CTEXT.
563	5425				20	70	10	-	-	0.9	light grey	C	R	-		CHER					Angular quartzite + chert fragments.
564	5450				30	10	10	50	-	1.2	red-brown	C	R	-		CHER					grey, siliceous, chert fragments.
565	5475				-	30	40	-	30	0.2	grey-black	B/C	R	-		CHER					grey chert fragments.
566	5500				10	10	10	70	-	0.9	red-yellow	C	R	-		MUDS.					v. weathered, laminated shale-mudstone fragments.
567	5525				10	20	10	60	-	0.6	yellow-brown	C	R	-		MUDS?					siliceous red shale - mudstone frags.
568	5550				-	15	15	70	-	1.2	dk. red brown	B/C	R	-							Flint @ 5565, v. weathered basalt - volcanic clastic?
569	5575				15	10	5	70	-	0.8	red brown	C	R	-		BASL					basaltic fragments.
570	5600				10	20	10	60	-	0.5	yellow-brown	C	R	-		MUDS.					khaki green mudstone.
571	5625				10	20	10	60	-	0.6	yellow-brown	C	R	-		MUDS					orange - khaki mudstone.
572	5650				30	5	5	60	-	1.2	yellow-brown	C	R	-		MUDS					black-laminated mudstone.
573	5675				15	15	10	60	-	0.6	red	C	R	S		MUDS					black laminated mudstone.
574	5700				15	15	10	60	-	0.8	yellow-or	C	R	S		MUDS					black laminated mudstone.
575	5725				10	10	10	70	-	0.8	yellow-red	C	R	-		TFSH.					tuffaceous mudstone matrix? grey.
576	5750				-	20	10	70	-	1.1	or-yellow	B/C	R	-							feruginous, siliceous fragments - ferricrete?
577	5775				-	20	10	70	-	1.2	or-yellow	B/C	R	-		FRCT					

229216

5 cm

PROJECT N. ARTHUR ANOMALIES 1:250000 SHEET BURNIE SK 55-3 COLLECTED BY DW/MW/IC DATE July 84
 TENEMENT ROCKY CAPE EL 1177 SAMPLE NO.S 1141553 - 577 LOCAL GRID CROSS REF _____
 INVESTIGATION WHITE ANOMALY DPO'S 30492 _____

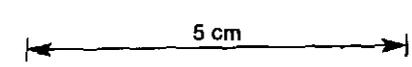


CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL

SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS					
	EAST	NORTH	Zone/GS	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Rock Type	Alteration	Vis. Min		Min. Type 1	Min. Type 2	Look		
1141578	5800	5600	SS	P.A. #	-	15	15	70	-	12	Or-yell -brown	5/2	R	-									
579	5825				-	15	15	70	-	08	Or-yell -brown	5/2	R	F									float: greenish-red earthy tuffaceous mudstone?
580	5850				-	15	20	65	-	08	Purple-brown	5/2	R	-									
581	5875				-	10	20	70	-	08	Red-brown	5/2	R	-									
582	5900				-	10	10	70	-	10	Red-brown	C	R	-	MUDS.								ex + lam mudstone float.
583	5925				-	15	10	60	-	08	L. yell -buff	C	R	-	FRCT								terrigenous ferruginous? fragments. after mudstone?
584	5950				-	10	10	80	-	12	L. yell -buff	5/2	R	-	FRCT								terrigenous ferruginous? fragments. terrigenous mudstone frags.
585	5975				-	10	20	70	-	10	L. buff -buff	C	R	-	MUDS.								
586	6000				-	10	20	70	-	12	L. buff -buff	5/2	R	-									
587	6025				-	10	20	70	-	12	L. buff -buff	5/2	R	-									
588	6050				-	15	20	65	-	12	L. buff -buff	5/2	R	-	QTUN?								Quartz fragments.
589	6075				-	10	20	70	-	10	L. buff -buff	5/2	R	-	QTUN?								Quartz fragments.
590	6100				-	10	20	70	-	12	buff -grey	5/2	R	-	CHER?								white-grey chert? fragments siliceous!



PROJECT NORTH ARTHUR AEROMAG ANOMALIES
 TENEMENT ROCKY CAPE EL 1177
 INVESTIGATION WHITE ANOMALY

1:250000 SHEET BORNIE SE 55-3
 SAMPLE NO.S 1141578-590
 DPO'S 30492

COLLECTED BY DW, MW, EC DATE July 1984
 LOCAL GRID CROSS REF _____



282

229217

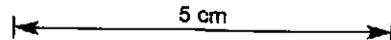
176

CRA EXPLORATION PTY LIMITED

ROCK SAMPLE FIELD SHEET

RK

SAMPLE NUMBER	SAMPLE LOCATION		SAMPLE DESCRIPTION					ROCK TYPE			MINERALISATION					GEOLOGICAL OBSERVATIONS						
	East	North	Zone/10	Sample type	From	To	Width	Exposure	Major	Minor	Alteration	Visible	Style	Major	Minor	Minor	Conspic	Type	Grain size	Texture	Colour	Looks
1142466	5435	5000	55	GRAB				F	OVER								PE	RD	IF	BD	27	
467	5455			GRAB				F	DOLM	SILC							R	RD	VF	BD	27	Silicose replacement chert.
468	5520			GRAB				F	IRST										MF	MS	tan	Ferricite? Gossan? Talcitic remnant of basalt?
469	5530			GRAB				F	IRST										VF	MS	black	Massive goethite/hematite.
470	5565			GRAB				F	BASL								CH	EV	CG	MS	tan	v. weathered.
471	5600			GRAB				D	MUDS								CH		FG	BD	grey	Khaki grey well bedded mudstone.
472	5625			GRAB				F	MUDS								CH		FG	BD		Black laminated mudstone.
474	5725			GRAB				F	TFSH								CH		FG	MS	grey	Grey massive? rhyolite? Shale.
475	5825			GRAB				F	LTTF								CH		MS	BD	grey	Greenish red glistening fractured talcitic tuff?
476	5900			GRAB					LTTF								CH	EV	CG	BD		Coarse laminated rhyolite rock? - Ust-carnic tuff?



PROJECT N. ARTHUR ANOMALIES
 TENEMENT ROCKY CAPE EL 1/77
 INVESTIGATION WHITE ANOMALY

1:250000 SHEET BORNIE SX55-3
 SAMPLE NO.S 1142466-72 474-476
 DPO'S 30499

COLLECTED BY DW DATE 3/8/84
 LOCAL GRID CROSS REF _____



2299218

PROJECT

GEOCHEMICAL SAMPLING LEDGER

DATES : AUG 84

TENEMENT

AREA / PROSPECT WHITE ANOMALY

GEOLOGIST gjn

SAMPLE TYPE ROCK CHIPS

PAGE NO. 1071

SAMPLE NUMBER	GRID REF. 5000M	ANALYSES																DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE				
		Cu	Pb	Zn	Ni	Co	Fe	Mn	As	Ag	Sn	W	Ba	Hg	Au.									
142466	5435	5	25	10	175	25	0.24	10	2	21	25	210	210	24	20.01							30499		
467	5455	5	25	10	220	25	0.35	15	21	21	25	210	210	24	20.01									
468	5520	15	20	60	70	30	149.7	620	14	3	25	210	130	48	0.03									
469	5530	45	25	400	310	45	63.7	200	21	3	25	210	40	89	0.01									
470	5565	210	15	230	330	130	14.1	2450	7	2	25	210	2950	16	0.01									
471	5600	105	15	110	145	30	5.7	610	5	21	25	210	340	24	0.01									
472	5625	55	10	90	95	35	5.9	720	18	1	25	210	800	4	20.01									
474	5725	65	5	190	100	40	13.9	390	3	2	25	210	640	12	20.01									
475	5825	55	10	55	70	20	9.0	350	9	1	25	210	60	8	20.01									
476	5900	55	25	65	80	15	10.1	590	10	1	25	210	250	8	0.01									

229219

219

CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS			
	EAST	NORTH	Zone/IS	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horiz. Layer	Soil Type	Exposure Type	Depth to Bedrock	Rock Type	Alteration	Vis. Min		Min. Type 1	Min. Type 2	Look
1141931	5825	5000	14	PA.	10	80	10			11		C				QTZT						grey sandy soil with quartzite fragments.
932	5850				10	80	10			12		C				QTZT						grey sandy soil with quartzite fragments
933	5875				15	65	20			10		C				CHER						grey sandy soil with white chert fragments.
934	5900					20	20	60		09		C				BSL?						grey-brown sandy clay & possible basaltic pellets.
935	5925					20	25	55		10		B/C				SILT?						buff-brown clay & or-brown clay beds.
936	5950					20	20	60		12		B/C										1. buff-yellow clay
937	5975					15	15	70		12		B/C										mid or-brown clay
938	6000				10	15	15	60		10		C				SILT						1. yellowish-buff clay & siltstone fragments.
939	6025					15	20	65		10		B/C										1. Or-buff clays.
940	6050				5	15	20	60		07		C				TFUB/BSL?						mid Or-brown clay & reddish tuffaceous siltstone fragments.
941	6075					20	20	60		11		C				SILT						1. Or-buff clays & weathered lam. siltst. fragments
942	6100					15	15	70		13		B/C										1. yellowish-buff clay & ferricrete.
943	6125					20	15	65		06		B/C										Or-brown clay & ferricrete fragments.
944	6150					15	20	65		13		C				TFUB/BSL?						Or-red-brown clay. → basaltic.
945	6175					20	30	50		06		B/C										buff brown clay & ferricrete fragments.
946	6200					20	30	50		12		C				SILT						1. Or-brown clay & weathered siltstone.
947	6225					25	25	50		11		B/C										1. Or-brown clay & silic. ferricrete/hematitic frag.
948	6250					15	15	70		11		B/C										buff-brown clay & ferricrete.
949	6275					20	15	65		11		B										mid brown clay
950	6300					10	20	70		10		B										mid brown-clay
951	6325					50	30		20	14		B/C										white sandy soil & angular quartz fragments. poss Dolomite?
952	6350					50	30		20	13		B/C										As above poss Dolomite.
953	6375					50	30		20	14		A										grey-brown sand
954	6400					60	40			12		A										As above
955	6425					80	20			07		A										As above.

5 cm

PROJECT RUBY ANOMALY 1:250000 SHEET BORNIE SIC 53-3 COLLECTED BY MW IR DJW DATE SEPT 84. 1992.
 TENEMENT ROCKY CREEK EL1/17 SAMPLE NO.S 1141931-955 LOCAL GRID CROSS REF _____
 INVESTIGATION LINE 5000N DPO'S 31951



229220

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS			
	EAST GRID	NORTH GRID	Zone/IG	Sample Type	Rck%	Sand%	Silt%	Clay%	Org%	Depth	Colour	Horizon	Soil Type	Exposure Type	Depth to Bedrock	Rock Type	Alteration	Vis. Min		Min. Type 1	Min. Type 2	Look
1141591	5000	5000	L4	802 P.A.	-	15	15	70	-	1.0	green-brown	C	R			SILT						green-brown clay 1. ls. grey lam. siltst frags, minor quartz.
592	4975				-	15	15	70	-	1.0	green-brown	C	R			SILT						green-brown clay weathered siltst fragments.
593	4950				5	15	10	70	-	1.0	green-buff	C	R			SILT						1. green-buff clay siltst frags, minor quartz.
594	4925				5	15	10	70	-	0.6	white-buff	C	R			SILT						white-buff clay siltstone fragments.
595	4900				10	15	15	60	-	1.1	h-buff-grey	C	R			CHER?						1. buff-grey sandy soil grey-buff lam. siltstone rock - chert?
596	4875				25	50	20	-	5	0.7	h-buff	C	R			CHER?						1. buff sandy soil angular qtz frags - chert? + 9/15 gravels.
597	4850				20	55	25	-	-	0.7	white-grey	C	R			CHER						white-grey sandy soil chert fragments + quartz gravels.
598	4825				25	55	20	-	-	0.7	grey-white	C	R			CHER						grey-white sandy soil quartz gravels + chert.
599	4800				20	50	30	-	-	0.4	white	A	R			GRAN						white sandy soil + quartz gravels.
600	4775				15	55	20	-	10	1.2	grey-white	M/C	R			GRAN						grey-white sandy soil mainly quartz gravels + minor sandstone.
601	4750				15	55	20	-	10	1.2	h-grey-brown	M/C	R			CHER?						1. grey-brown sandy soil quartz gravel, possible chert.
602	4725				20	60	20	-	-	1.2	white	A	R			GRAN						white sandy soil quartz gravel.
603	4700				20	60	20	-	-	1.2	grey-white	A	R			GRAN						grey-white sandy soil quartz gravel.
604	4675				15	55	20	-	10	1.0	h-grey-brown	M/C	R			SSUD/QZT?						1. grey-brown sandy soil quartz gravels + sandstone / quartzite.
605	4650				10	55	20	-	15	0.8	h-grey-brown	C	R			SSUD/QZT?						1. grey-brown sandy soil quartz gravels + angular quartzite / silt frags.
606	4625				15	60	15	-	10	0.6	grey-white	M/C	R			SSUD/QZT?						grey-white sandy soil qtz gravels + angular quartzite.
607	4600				20	60	20	-	-	0.9	white-grey	C	R			CHER						white-grey sandy soil qtz gravels + chert + cr quartzite?
608	4575				20	60	20	-	-	1.2	white-buff	C	R	F		CHER?						white-buff sandy soil angular qtz frags. -> chert
609	4550				20	60	20	-	-	0.8	white-brown	A	R			GRAN						white-brown sandy soil quartz gravel.
610	4525				-	30	30	20	20	1.2	grey	A	R			GRAN						grey sandy soil + white quartz gravels.
611	4500				30	10	20	-	40	1.2	grey-buff	C	R			CHER						1. grey-buff sandy soil quartz gravel + chert.
612	4475				30	20	20	-	30	0.5	h-grey	C	R			CHER						1. grey sandy soil + quartzite + chert? fragments.
613	4450				35	20	20	-	25	0.4	dk grey	C	R			CHER						dk grey sandy soil + grey-bl. chert fragments.
614	4425				10	70	20	-	-	1.3	white-buff	C	R			SSUD/QZT						white-buff sandy soil siltstone frags.
615	4400				-	50	20	30	-	0.5	h-buff-brown	C	R			SSUD/QZT						1. buff-brown sandy soil quartzite / sandstone fragments.

5 cm

PROJECT NORTH ARTHUR ANOMALIES

1:250000 SHEET BURNIE SK 55-3

COLLECTED BY G.W. MUIR DATE July 8th 1973

TENEMENT ROCKY CREEK EL 1/??

SAMPLE NO.S 1141591-615

LOCAL GRID CROSS REF

INVESTIGATION ELECTRIC BLUE ANOMALY

DPO'S 30492



229224

4236

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK						GEOLOGICAL OBSERVATIONS		
	EAST GRID	NORTH GRID	Zone/G	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horiz	Soil Type	Exposure Type	Depth to Bedrock	Rock Type	Alteration	Vis. Min	Min. Type 1		Min. Type 2	Look
1141616	A375	5000	19	20 P.A.	5	25	20	50	-	1.0	buff-brown	B/C	R			SILT?						buff brown clayey soil - siltstone? fragments.
617	4350				5	30	25	40	-	0.8	grey	C	R			QTZT						greenish-grey sandy clay - grey quartzite fragments.
618	4325				10	30	30	30	-	0.8	buff-brown	C	R			QTZT						buff brown sandy soil + quartzite fragments.
619	4300				10	20	20	30	20	0.6	L. brown	B	R									L. brown sandy clay.
620	4275				-	30	20	25	25	0.5	buff-brown	B/C	R			QTZT						buff-brown sandy clay - angular quartzite fragments.
621	4250				-	30	20	30	20	0.6	buff-brown	B/C	R			QTZT						buff-brown sandy soil - angular quartzite.
622	4225				5	25	10	60	-	1.2	grey-buff	B/C				QTZT						grey-buff sandy clay - L. quartzite fragments.
623	4200				10	20	20	50	-	0.9	buff-brown	B/C				QTZT						buff-brown sandy clay - angular quartzite + quartz gravels.
624	4175				10	30	30	20	10	0.8	buff-brown	B/C				QTZT						buff brown sandy clay - quartz frags + quartz gravels.
625	4150				-	45	20	10	25	0.7	buff-brown	C				QTZT						buff-brown sandy soil - quartzite + quartz gravels.
626	4125				10	40	20	10	20	0.8	grey-brown	B/C				QTZT						grey-brown sandy clay - quartzite fragments.
627	4100				10	40	25	15	10	0.8	L. buff-brown	C				QTZT						L. buff brown sandy soil - angular quartzite + quartz gravels.
628	4075				10	30	20	30	10	0.8	buff-brown	C				QTZT						L. buff-brown sandy soil - angular quartzite + quartz gravels.
629	4050				10	30	20	25	15	0.9	grey-buff	C				QTZT/SSUD						grey buff sandy soil - quartz gravels + sandstone fragments.
630	4025				5	35	20	30	10	0.8	buff-brown	C				SSUD						buff brown sandy soil - sandstone.
631	4000				20	20	20	20	20	0.7	buff-brown	B										buff brown sandy soil.
632	3975				-	30	20	50	-	1.1	buff-brown	A				GRAN						buff-brown sandy soil - quartz gravel.
633	3950				10	30	20	10	30	0.4	buff-brown	C				SSUD						buff-brown sandy clay - quartz gravels + friable sandstone.
634	3925				10	30	20	10	30	0.4	grey-brown	C				QTZT/SSUD						grey-brown sandy clay - quartz gravels + angular quartzite.
635	3900				10	30	20	15	25	0.7	grey-brown	C				SSUD/SILT						grey-brown sandy soil - sandstone → L. sandy siltstone.
636	3875				10	40	20	10	20	0.5	buff-brown	C				SSUD/SILT						buff-brown sandy soil - quartz gravels + sandstone → siltstone.
637	3850				5	30	25	30	10	0.8	grey-buff	C				SILT/SSUD						buff-buff sandy clay - quartz gravels + sandstone → sandy siltstone frags.
638	3825				-	30	20	50	-	1.0	grey-brown	B/C				GRAN						grey-brown sandy soil - quartz gravels.
639	3800				10	50	20	5	15	0.8	grey-brown	C				SSUD/QTZT						grey-brown sandy soil - angular quartzite / sandstone frag.
640	3775				10	50	20	-	20	0.9	grey-brown	C				SSUD/QTZT						grey-brown sandy soil - angular quartzite / sandstone.

5 cm

229255

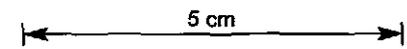
PROJECT N. ARTHUR ANOMALIES
 TENEMENT ROCKY CAPE 62/1/77
 INVESTIGATION ELECTRIC BLUE

1:250000 SHEET BURNIE SK 55-3
 SAMPLE NO.S 1141616-640
 DPO'S 20492

COLLECTED BY DAV, MW, JR DATE July 84
 LOCAL GRID CROSS REF _____



SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS		
	EAST GRID	NORTH GRID	Zone/IG	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure	Rock Type	Alteration	Vis. Min	Min. Type 1		Min. Type 2	Look
1141641	3750	5000	L4	Top P.A.	10	30	30	20	10	0.7	grey-brown	C A			QTZT/SSUD						grey-brown sandy soil. Qtz gravels, quartzite - Sandstone.
642	3725				10	30	30	20	10	0.8	buff-brown	C R			SSUD/QTZT						buff-brown sandy soil Sandstone - quartzite fragments.
643	3700				10	35	35	20	-	0.5	buff-brown	C R			SSUD/QTZT						buff-brown sandy clay Sandstone - quartzite fragments.
644	3675				10	40	30	20	-	0.6	buff-brown	A R			GRAU						buff-brown sandy soil quartz gravels.
645	3650				25	35	30	10	-	1.2	buff-brown	C R			SSUD/QTZT						buff-brown sandy clay Qtz gravels + quartzite - Sandstone frags.
646	3625				15	30	30	10	15	0.4	buff-brown	C R			SSUD/QTZT						buff-brown sandy soil Qtz gravels + Sandstone - quartzite.
647	3600				20	25	30	10	15	1.0	buff-brown	C R			SSUD/SILT						f. lam Sandstone -> Sandy Diltone.



PROJECT N. ARTHUR ANOMALIES.

1:250000 SHEET BURNIE SK 55-3

COLLECTED BY D.M. N.W. JR DATE July 84 3073.

TENEMENT ROCKY CAPE E1/77

SAMPLE NO.S 1141641-647

LOCAL GRID CROSS REF

INVESTIGATION ELECTRIC BLUE ANOMALY

DPO'S 30492



2020

229220

CRA EXPLORATION PTY LIMITED

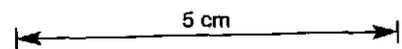
SOIL SAMPLE FIELD SHEET.

SL

SAMPLE NUMBER	LOCATION		SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS			
	EAST	NORTH	Zone/G	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Rock Type	Alteration	Vis. Min		Min. Type	Min. %	Look
1141693	4200	5000	SS	8 P.A.	20	30	50	-	1.2	Dr. Grey	Bk R	R	N								v. dark grey sandy clay.
694	4225				20	10	15	45	10	0.7	Yellow-brown	C R	N	MUDS.							yellow-brown clay. laminated mudstone float @ 4220 E
695	4250				-	15	20	65	-	1.0	white-buff	Bk R	N								
696	4275				5	15	20	60	-	1.0	Pale buff	Bk R	F	SILT							Pale buff clayey sil. float: weathered laminated siltstone.
697	4300				15	20	20	45	-	1.1	Or-brown	C R	S	LTF?							Orange-brown clay v. weath. Orange, lithic turf?
698	4325				10	15	15	60	-	0.9	med. green-brown	C R	F	LTF?							med. greenish brown clay dk green-brown lithic turf? float.
699	4350				-	15	15	70	-	1.0	Pale buff-Orange	Bk R	F	LTF?							Pale buff-Orange clay. green lithic turf float @ 4360 E
700	4375				10	10	20	60	-	1.2	Or-brown	C R	F	LTF?							Or brown clay. green lithic turf float.
701	4400				5	20	15	60	-	1.2	dk or-brown	Bk R									DK. orange brown clay, sl. greenish.
702	4425				-	10	15	75	-	1.0	green-or-brown	Bk R	F	REST							DK. Orange brown clay v. ferruginous float, after turf? 4425-4440 E
703	4450				-	15	15	70	-	1.0	green-brown	B R									Greenish brown clay.
704	4475				10	20	20	50	-	1.1	green-buff-brown	Bk R									pale greenish buff-brown clay
705	4500				-	20	20	60	-	0.9	Or-brown	Bk R	F	LTF?							Orange-brown clay, sl. reddish. green lithic turf float
706	4525				-	15	15	70	-	1.1	Yellow-orange	Bk R									Orange-brown clay, sl. greenish.
707	4550				5	20	10	65	-	1.3	green-or	B R									Pale greenish orange clay.
708	4575				-	15	15	70	-	1.0	buff-or	B R									Pale buff-or clay
709	4600				-	15	20	65	-	1.1	Or-buff	B R									Orange-buff clay
710	4625				10	20	20	50	-	1.2	Orn-or	Bk R									Pale greenish-orange clay.
711	4650				-	25	15	60	-	1.1	buff-brn	B R									buff-brown clay.
712	4675				-	15	10	75	-	0.7	Or-brn	B R									Orange-brown clay.
713	4700				-	15	15	70	-	1.2	Or-brn	B R									Orange-brown clay.
714	4725				-	15	20	65	-	1.0	Or-brn	B R									Orange-brown clay.
715	4750				-	15	20	65	-	1.1	Or-brn	B R									Orange-brown clay, sl. reddish.
716	4775				-	20	20	60	-	1.3	red-purple-brown	B R									reddish. purple-brown clay.
717	4800				-	15	20	65	-	1.2	greenish-orange	B R	F	?							greenish-orange clay. Reddish-purple-brown earthy textured rock.

229227

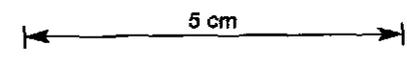
PROJECT NORTH ARTHUR ANOMALIES 1:250000 SHEET BURNE SK55-3 COLLECTED BY MW, JR, DJW DATE July 84 1982
 TENEMENT ROCKY CAPE EL1/77 SAMPLE NO.S 1141693-1141717 LOCAL GRID CROSS REF
 INVESTIGATION ROSE BLUE ANOMALY DPO'S 30492



122



SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS			
	EAST	NORTH	Zone/GS	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizn	Soil Type	Exposure Type	Depth to Bedrock	Rock Type	Alteration	Vis. Min		Min. Type 1	Min. Type 2	look
1141718	4825	5000	55	30" P.A.	5	15	15	65	-	1.2	Or-brown	6/c										Orange brown clay.
719	4850				10	15	10	65	-	1.1	Or-brown	6/c										Orange-brown clay.
720	4875				10	15	15	60	-	1.3	Or-brown	6/c										Orange-brown clay.
721	4900				-	20	20	60	-	1.0	lt buff brown	B										Light buff-brown clay.
722	4925				-	15	20	65	-	1.0	lt Or-buff	B										Light orange-buff clay, sl. greenish.
723	4950				-					1.2	lt Or-buff	B										Light orange-grey clay.
724	4975				-	15	15	60	10?	1.2	lt buff-Or.	B										light buff-Orange clay.
725	5000				-	20	15	65	-	1.0	buff-brown	6/c										buff-brown clay. Siltstone fragments?
726	5050				10	25	30	35	-	1.3	white-buff	A/c										white-buff sandy soil white quartz gravel.
727	5100				20	20	25	35	-	0.9	grey-brown	C				CHER						grey-brown sandy soil Chert fragments.
728	5150				-	25	25	50	-	1.2	grey-white	6/c										grey-white clay. quartz gravel, some angular quartz.
729	5200				-	20	20	40	20	0.8	grey-brown	6/c										grey-brown clay; Angular quartz fragments - chert?
730	5250				10	25	35	30	-	1.2	lt grey-brown	C										lt grey-brown clay quartz gravel
731	5300				10	20	30	40	-	1.1	lt grey	C										lt grey clay quartz gravel + angular quartz - chert?
732	5350				15	20	30	35	-	1.0	lt grey buff	C										lt grey-buff clay Angular quartz (ite)? fragments.
733	5400				10	20	30	40	-	1.3	lt grey buff	C				CHER?						lt grey clay Angular quartz (ite)? frags - chert?



PROJECT NORTH ARTHUR ANOMALIES

1:250 000 SHEET BURNIE SK 55-3

COLLECTED BY DJW HW IR DATE July 84 292

TENEMENT ROCKY CAPE EL 177

SAMPLE NO. 5 1141718 - 733

LOCAL GRID CROSS REF

INVESTIGATION ROSE BLUE ANOMALY

DPO'S 30492



322

2292228

CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL

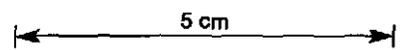
SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION								BEDROCK					GEOLOGICAL OBSERVATIONS					
	EAST	NORTH	Zone/G	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Depth to Bedrock	Rock Type		Alteration	Vis. Min	Min. Type 1	Min. Type 2	Look
1141866	5500	5000	4g	PA	15	15	70			1.1		B/C	R									1. greyish-buff clay & quartz and ferricrete fragments
867	5475				15	15	70			0.9		B/C	R									Orange-buff clay & quartz and ferricrete fragments.
868	5450				15	15	70			1.0		B/C	R									1. orange buff clay & black Mn? rich fragments.
869	5425				15	15	70			1.1		B/C	R									1. Orange-brown clay & ferricrete frags.
870	5400				5	20	15	60		1.1		B/C	R									Orange brown clay & ferricrete frags.
871	5375				5	15	15	65		1.0		B/C	R									Orange brown clay & siliceous reddish brown siltstone/ferricrete fragments
872	5350				15	15	70			1.1		B/C	R									1. orange-buff clay & ferricrete fragments
873	5325				20	15	65			1.1		B/C	R									Orange brown clay & tabular ferricrete fragments.
874	5300				20	15	65			0.9		B/C	R									Orange brown clays, sl. greenish.
875	5275				15	15	70			0.8		B/C	R									Orange brown clays & ferricrete frags.
876	5250				20	20	60			0.7		C	E			SILT						Orange brown clays & siltstone frags
877	5225				15	20	65			0.7		C	F			SILT						Orange brown clays, sl. greenish.
878	5200				20	20	60			0.7		C	E			TFUD						Orange brown clays. Tuffaceous siltstone Fe., Scoriaeous. Purple brown clay
879	5175				15	15	70			1.2		B/C	R			TFUD/BASL						Purple brown clay & black Mn? rich pellets.
880	5150				20	25	55			0.9		C				TFUD/BASL?						1. Or-brown clay & mudstone? pellets.
881	5125				5	15	75	65		0.7		C				SILT						1. Or-brown clays,
882	5100				15	15	70			0.8		B/C	R			SILT?						1. Or-buff clay
883	5075				20	20	60			0.7		B/C	R									Orange clays & red scoriaeous basaltic fragments.
884	5050				15	20	65			1.2		C	F			BASL						1. Or-buff clay & grey-bl. siltstone fragments
885	5025				15	15	60	10	0.3			C				SILT						Orange-brown clay & siltstone fragments.
886	5000				15	20	65			0.8		C				SILT						1. buff-or brown clay & siltstone fragments
887	4975				20	20	60			1.3		C				SILT						1. Or-brown clay, sl. greenish & ferricrete frags.
888	4950				15	15	60	10	1.1			B/C	R									1. Or-buff clay, greyish + quartz grains.
889	4925				15	20	65			1.2		B/C	R									1. Or-buff clay, greyish + quartz grains.
890	4900				15	15	70			1.1		B/C	R									1. pale buff clay & quartz grains.

229229

PROJECT N. ARTHUR AERONAVIG ANOMALIES
 TENEMENT LOCKY CAPE EL1/77
 INVESTIGATION GREEN ANOMALY

1:250000 SHEET BURNIE SK53-3
 SAMPLE NO.S 1141866 - 890
 DPO'S 31915

COLLECTED BY DW MW ER DATE AUG 84
 LOCAL GRID CROSS REF



229229

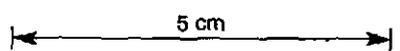
CRA EXPLORATION PTY LIMITED

SOIL SAMPLE FIELD SHEET.

SL

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS			
	EAST	NORTH	Zone/IS	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Depth to Bedrock	Rock Type	Alteration	Vis. Min		Min. Type 1	Min. Type 2	Look
1141891	4875	5000	L4	PA		20	20	60		0.8		OE										Pale buff-grey clay & ferricrete fragments
892	4850					20	20	60		0.9		C				SILT						1. buff-grey clay & quartz + siltstone fragments 2. grey-buff clay & ferricrete fragments
893	4825					25	20	55		0.9		1/2										
894	4800					20	20	60		1.0		C				CHER						Pale grey-buff clay & black, sil. cherty fragments
895	4775				15	30	30	25		0.6		C				CHER						Pale buff sandy soil & quartz + angular chert fragments
896	4750					20	25	55		0.8		C				CHER						buff-grey sandy soil & quartz grains + chert fragments
897	4725				40	30	30			0.7		C				CHER						buff-brown sandy soil & quartz grains and sub angular chert
898	4700				40	30	30			1.2		C				CHER						buff-brown sandy soil & quartz grains and chert fragments
899	4675				30	40	30			0.8		C				CHER						grey sandy soil, quartz grains and chert fragments
900	4650					20	20	10		1.2		1/2				QTZT?						greyish-brown sandy clay, quartz grains + angular quartz
901	4625				50	40	10			0.8		A				GRAN						dk brown, black sandy soil, ironite & quartz gravel
902	4600				10	15	15	60		1.3		C				QTZT						grey sandy soil & quartz grains + angular quartz
903	4575				30	30	20	20		0.6		C	F			CHER						grey sandy soil & grey-black silicified chert fragments
904	4550					40	40	20		1.0		A				GRAN						dk grey-brown sandy soil & quartz gravels
905	4525				40	40	10	10		1.0		A				GRAN						dk brown/black ironite sand & quartz gravels
906	4500				10	90				1.2		A				GRAN						grey-brown sandy soil & quartz gravels
907	4475				50	40	10			0.8		A				GRAN						As above
908	4450				50	40	10			1.2		A				GRAN						grey sandy soil & quartz gravels
909	4425				50	40	10			1.3		A				GRAN						As above
910	4400				40	40	20			1.0		A				GRAN	POSSIBLE QUARTZITE?					grey-brown sandy soil & quartz gravels
911	4375				30	30	10	30		1.2		A				GRAN						As above
912	4350				30	40	10	20		1.4		A				GRAN						As above
913	4325				40	40	20			1.1		A				GRAN						As above
914	4300				30	30	30		10	1.4		A				GRAN						As above
915	4275				20	30	30		20	1.4		A				GRAN						As above
916	4250				20	30	40		10	1.4		A				GRAN						As above

PROJECT N. ARTHUR ANOMALIES 1:250000 SHEET BURNIE SK 55-3 COLLECTED BY DW MW JR DATE AUG 84
 TENEMENT ROCKY CAPE 62/177 SAMPLE NO.S 1141891-916 LOCAL GRID CROSS REF
 INVESTIGATION GREEN ANOMALY DPO'S 3915



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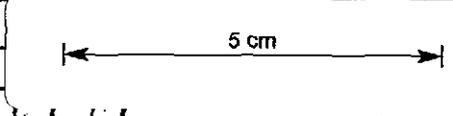
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CRA EXPLORATION PTY LIMITED

ROCK SAMPLE FIELD SHEET

RK

SAMPLE NUMBER	SAMPLE LOCATION		SAMPLE DESCRIPTION					ROCK TYPE			MINERALISATION					GEOLOGICAL OBSERVATIONS							
	East	North	Zone/ID	Sample Type	From	To	Width	Exposure	Major	Minor	Alteration	Visible	Style	Major	Minor	Minor	Complex	Age	Mineral	Grain size	Texture	Colour	Notes
1142528	4695	5000	LG	GRAB				U	CRUD.		SILC.							Pe	Pe	MG	MS	White	v. weathered, bedded unggy SiO2 rich rock after CO2
1142529	4625			GRAB				F	CRUD		SILC							Pe	Pe	MG	MS	White	As above, but massive.
1142531	5030			GRAB				U	BASL									E	EV	MG	?	not seen	Scoriaceous basaltic tuff.
1142532	5080			GRAB				F	SILT.			T	SS	PYRT.				E	ES	FG	ED	grey -bl.	
533	5190			GRAB				F	BASL									E	EV	MG	?	not seen	Scoriaceous basaltic tuff.
534	5240			CHIP	5235E	5245E		O	TFSH.									E	ES	FG	ED		Dr-red tuffaceous mudstone.



229231

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PROJECT N. ARTHUR ANOMALIES 1:250000 SHEET BURNIE SK 55-3 COLLECTED BY RM DATE Sept 84
 TENEMENT Rocky Cape EL117 SAMPLE NO.S 1142528-529 LOCAL GRID CROSS REF _____
 INVESTIGATION GREEN ANOMALY DPO'S 309500 30500



PROJECT ROCKY CAPE
 TENEMENT EL 1177
 AREA / PROSPECT GREEN ANOMALY

GEOCHEMICAL SAMPLING LEDGER

GEOLOGIST D.M. SAMPLE TYPE ROCK CHIP

DATES : Oct 84
 LAB. A.S.
 PAGE NO. _____

SAMPLE NUMBER	GRID REF.	ANALYSES																DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE				
		Cu	Pb	Zn	Ni	Co	Fe%	Mn	As	Ag	Mo	Sr	W	Ba	Au									
1142528		10	20	35	30	5	1.77	20	4	<1	<5	<5	<10	110	0.02							30600		
529		5	10	10	5	<5	0.46	45	8	<1	10	<5	10	<10	0.02							-		
531		85	30	65	110	15	11.9	220	5	2	<5	<5	<10	200	0.02							-		
532		65	45	45	45	10	4.92	210	20	<1	<5	<5	<10	40	0.13							-		
533		20	35	55	50	25	11.2	185	3	1	<5	<5	<10	620	0.01							-		
534		35	35	45	60	10	9.92	25	8	<1	<5	<5	<10	330	0.04							-		

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 (N)

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/Ait - 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
Calcareous	CLAR
Siltstone	SILT
Shale	SHAL
Calcareous	
Shale	CLSH
Black Shale/ Carb/Graphite	BLSH
Oil Shale	OLSH
Lignite	LIGN
Coal-Black	CLBL
Coal-Brown	CLBR
Mudstone	MUDE
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
Magnesite	MGST
Iron Formation	IRFM

Miscellaneous

Silcrete	SLRT
Calcrete	CLRT
Bauxite	BAUX
Ironstone	IRST
Laterite	LATR
Gossan	GOSS
Sulphides	SULP
Quartz Vein	QTVN
Gresien	GRES
Fubarite	FUBR

Volcanics

Agglomerate	AGLM
Lapilli Tuff	LPTF
Ash Flow Tuff	AFTF
Ignimbrite	IGNM
Crystal Tuff	CRTF
Vitric Tuff	VTFV
Obsidian	OBSO
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	HRUD
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	CRSC
Schist Undiff	SCUD
Schist Mafic	SCMF
Schist Leuco	SCLC
Schist Amphibole	SCAM
Schist	
Andalusite	SCAN
Schist Biotite	SCBT

Schist Chlorite	SCCH
Schist Garnet	SCGR
Schist Muscovite	SCMS
Schist Mica	SCMC
Schist Pelitic	SCPL
Schist Psammitic	SCPS
Schist Sericite	SCSR
Schist Quartz	
Mica	SCOM
Schist	
Staurolite	SCST
Schist Talc	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	GNLT
Migmatite	GNM

Igneous - Intrusives

Greenstone	GNEM
Ultrabasic Intr.	
Undiff	UIUD
Eclogite	ECLG
Peridotite	PERD
Serpentinite	SERP
Anorthosite	ANOR
Gabbro	GABB
Alkali Gabbro	ALGB
Norite	NORT
Picrite	PICR
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

Medium Acid Intr.	MAIN
Fine Acid Intr.	FAIN
Granite	GRAN
Aplite	APLT
Adamellite	ADAM
Granodiorite	GRDR
Quartz Porphyry	QUPR
Quartz Feldspat	
Porphyry	QPPR
Granophyre	GRPH
Pegmatite	PEGM
Glass	GLAS

MINERALISATION/ALTERATION CODE

Veins	VEIN
Gossan	GOSS
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
Saussurisation	SAUS
Sericitisation	SERC
Silicification	SILC
Talcose	TALC
Tourmalinisation	TOUR
Zeolitisation	ZEOL
Other	OTHR

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CRA EXPLORATION PTY LIMITED

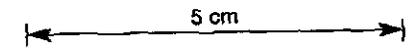
SOIL SAMPLE FIELD SHEET.

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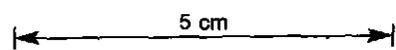
SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION								BEDROCK					look	GEOLOGICAL OBSERVATIONS		
	EAST GRID	NORTH GRID	Zone/IG	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Rock Type	Alteration			Vis. Min	Min. Type 1
1141648	5300	5000	SS	80# P.A.	-	10	10	80	-	1.2	lt. Or-brown	B	A	S						Light Orange-brown Clay. Or. Siliceous fragments. → Subsoil.
649	5275				10	10	20	60	-	1.0	lt. Or-buff	C	R						Light Orange buff clay Black, Mn? rich frags v. weathered Siltstone. Pale Or-buff Clay 2 tabular ferric frags after Siltstone?	
650	5250				-	10	10	80	-	0.9	lt. Or-buff	B	R						gray-buff sandy soil Chert fragments.	
651	5225				10	10	20	60	-	1.2	gray-buff	C	R	S	CHER				gray-buff sandy soil Chert fragments.	
652	5200				15	10	15	60	-	1.0	gray-buff	C	R	S	CHER				Chert fragments.	
653	5175				10	15	15	60	-	1.2	lt. brown buff	C	R	S	CHER				lt buff-brown sandy clay Chert fragments.	
654	5150				10	15	15	60	-	1.0	lt. gray-buff	C	R		CHER?				lt gray-buff sandy soil lt. quartz fragments, possible chert.	
655	5125				10	10	15	65	-	1.0	gray-brown	C	R						grayish brown clay Or. Siliceous fragments, some float.	
656	5100				10	15	15	60	-	0.9	gray-brown	C	R						grayish brown clay Orange v. weathered fragments.	
657	5075				10	10	10	70	-	1.1	lt. Or-brown	C	R		MUDS				lt. Or-brown clay Siliceous orange fragments after Siltstone?	
658	5050				-	15	15	70	-	1.0	gray-or-brown	B	R						grayish-orange & brown clay ferrous, fibrous? fragments.	
659	5025				10	10	15	65	-	1.0	Or-brown	C	R	F	LTF				Or-brown clay float: green lithic frag? Volcaniclastic.	
660	5000				10	10	15	65	-	0.4	red-brown	C	R						Red-brown clay v. weath orange mudstone? fragments	
661	4975				-	15	15	70	-	0.5	red-brown	C	R	F	LTF				Red-brown clay green lithic frag? float - Volcaniclastic.	
662	4950				20	10	10	60	-	1.2	red-brown	C	R	F	LTF				Red-brown clay green lithic frag? float - Volcaniclastic	
663	4925				-	10	20	70	-	0.6	lt. Or-brown	C	R						lt. Or-brown clay v. weath Or mudstone? fragments.	
664	4900				10	10	15	65	-	0.5	Or-brown	C	R	O	MUDS.				Or-brown & gray clay mudstone fragments.	
665	4875				15	15	15	55	-	1.2	Or-brown	C	R	F	MUDS.				Or-brown clay Silt and ferric fragments.	
666	4850				20	10	10	60	-	0.7	Or-brown	C	R	O	MUDS.		T	MEGT.	Or-brown clay Silt fragments - minor magnetic.	
667	4825				15	10	10	65	-	0.7	Or-brown	C	R	O	LTF				Or-brown clay Silt? frags of F. green lithic frag?	
668	4800				15	15	10	60	-	1.0	red-Or-brown	C	R		LTF				red-orange-brown clay lithic frag? fragments.	
669	4775				15	20	10	55	-	0.9	red-purple	C	R	O	SILT	HEMT?			red sh-purple clay green-pink siltstone fragments.	
670	4750				15	20	15	50	-	0.9	red-purple	C	R	O	SILT	HEMT?			Reddish-purple brown clay pinkish siltstone fragment.	
671	4725				10	20	10	60	-	0.8	lt. Or-brown	C	R	F	SILT				lt. Or-brown clay & siltstone fragments.	
672	4700				10	20	15	55	-	1.1	lt. Or-brown	C	R	F	SILT				lt. Or-brown clay Siltstone fragments.	

229236

PROJECT NORTH ARTHUR ANOMALIES 1:250 000 SHEET BORNIE SK 55-3 COLLECTED BY DJW MGR DATE July 84 1972
 TENEMENT ROCKY CREE EL177 SAMPLE NO.S 1141648-672 LOCAL GRID CROSS REF
 INVESTIGATION WALLABY ANOMALY DPO'S 30492



SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION										BEDROCK					GEOLOGICAL OBSERVATIONS			
	EAST GRID	NORTH GRID	Zone/IS	Sample Type	Rock %	Sand %	Silt %	Clay %	Org %	Depth	Colour	Horizon	Soil Type	Exposure Type	Depth to Bedrock	Rock Type	Alteration	Vis. Min		Min. Type 1	Min. Type 2	Look
1141673	4675	5000	L4	P.A.	-	15	20	65	-	1.2	Purp brown	C	R									Purple-brown clay laminated, ferrug, tabular fragments. Silts?
674	4650				5	10	15	70	-	1.0	red-brown	C	K									dk red-brown clay ferrug, sil. fragments
675	4625				-	15	15	70	-	1.0	red-brown	B/C	R									dk red brown clay & black Mn. och? fragments.
676	4600				-	15	15	70	-	0.9	dk red brown	B/C	R									dk red brown clay & black siliceous fragments.
677	4575				10	10	15	65	-	1.0	dk red brown	B/C	R	F		LTF?						dk red-brown clay & black glassy frags. float: dk green tuff? Orange brown clay.
678	4550				-	15	15	70	-	1.1	Dr-brown	B	R									
679	4525				10	15	10	65	-	1.3	dk brown	C	R			SILT.						dk brown clay & 9/13 gravel + silts. fragments.
680	4500				-	20	20	60	-	1.2	green-brown	B	R									greenish brown clay angular quartz fragments.
681	4475				-	15	15	70	-	1.0	green-yell-br	B/C	R									lt greenish-brown clay, sl. yellowish.
682	4450				-	15	15	70	-	1.0	lt or buff	B	R									lt. orange-buff clay.
683	4425				5	15	15	65	-	0.9	lt or buff-br	B/C	R									lt orange-buff-brown clay & rounded pebblic fragments.
684	4400				15	20	15	55	-	0.9	lt buff-brown	B/C	R	O		DOLM						lt. buff-brown clay & pebblic frags.
685	4375				10	20	15	65	-	0.8	lt grey-buff	C	K	O		DOLM						lt. grey-buff sandy clay & grey buff dolomite fragments.
686	4350				-	20	25	55	-	1.2	lt buff-br	C	L	O		DOLM						lt. buff-orange clay & dolomite fragments.
687	4325				5	20	15	60	-	1.0	green-brown	C	R									greenish-brown clay & pebblic fragments.
688	4300				-	20	20	60	-	1.3	lt brown	C	R									lt. brown clay & angular quartz & pebblic fragments.
689	4250				10	20	30	40	-	1.2	lt grey-brown	C	R			DOLM						lt. grey-brown sandy soil & dolomite fragments.
690	4200				5	20	30	35	-	1.1	lt grey	C	R			DOLM						lt. grey sandy soil. Quartz and dolomite fragments.
691	4150				5	25	20	30	20	0.4	lt grey	C				DOLM						lt. grey-brown sandy soil & dolomite fragments.
692	4100				5	25	30	25	5	0.5	lt grey	C				DOLM						lt. grey sandy soil dolomite fragments.



PROJECT N. ARTHUR ANOMALIES. 1:250000 SHEET BORNIE SK 55-3. COLLECTED BY DM. NW, JR DATE July 84 2092.
 TENEMENT ROCKY CAPE EL 1/77 SAMPLE NO.S 1141673-692. LOCAL GRID CROSS REF _____
 INVESTIGATION WALLABY ANOMALY DPO'S 30492



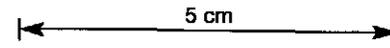
229237

GRA EXPLORATION PTY LIMITED

STREAM SEDIMENT SAMPLE 1 ZLD SHEET

SS

SAMPLE NUMBER	LOCATION			SAMPLE DESCRIPTION							SITE DESCRIPTION							GEOLOGY					GEOLOGICAL OBSERVATIONS			
	East GRID	North GRID	Zone	Sample Type	Gravel %	Sand %	Silt %	Clay %	Org %	Width	Gradient	Flow	Bank	Channel	Staining	Content	Site	Outcrop	Flot		Major	Min/Ait		Scint	Look	Veget.
1142453	5585	5000	SS	-80*	20	30	30	20		1.5		M	C	W			SB	MUDS	MUDS						R	RED ANOMALY.
1142465	5390	5000	SS	-80*	15	35	10	5		1.5		M	B	W			SB		QTZT						R	WHITE ANOMALY
473	5640	5000	SS	-80*	15	40	35	10		1.0		M	B	W			SB	BLSH	BLSH						R	WHITE ANOMALY.
1142479	4385	5000	SS	-80*	40	45	10	5		1.5		F	C	W			TU		QTZT GRN.	BLSH	GS				R	ELECTRIC BLUE ANOMALY.
1142490	4845	5000	SS	-80*	20	30	25	25		1.0		F	C	S			TU	SILT	SILT						R	WALLABY ANOMALY



229240

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PROJECT NORTH ARTHUR ANOMALIES. 1:250 000 SHEET BORNIE SK 65-3 COLLECTED BY JPV.
 TENEMENT ROCKY CAPE EL 1/77. SAMPLE NOS DATE 3/8/84
 INVESTIGATION RED ANOMALY DPO: 30495/30499



CRA EXPLORATION PTY LIMITED

ROCK SAMPLE FIELD SHEET

RK

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	General		Age	Mineral	Grain Size	Texture	Colour	Locality
1142477	4465	5000	L4	GRAB				F	SILT		FERG.							CH		FG	BD	Grey		ELECTRIC BLUE. Weathered vuggy siltstone. ferruginous to pinky
478	4460	5000	L4	GRAB				F	DOLM		SILC							PC	Red	FG	BD	Grey		
																								ROSE BLUE ANOMALY.
1142480	4510	5000	L4	GRAB				F	BASL		CHLR							CH	EV	MG	BD	Grey		Greenish earthy textured bedded basalt. ferruginous siltstone?
1142481	4465	5000	L4	GRAB				F	BASL		CHLR							CH	EV	MG				Green or brown earthy textured basalt floor. Chloritic Alt?
1142482	4440	5000	L4	GRAB				F	BASL		FERG							CH	EV	MG				v. ferruginous rock. - basalt?
1142483	4380	5000	L4	CHP	4380 E	4375 E	5	S	BASL		CHLR							CH	EV	MG		Grey		Green earthy textured basalt - Chloritic - Epidote?
1142484	4300	5000	L4	GRAB				F	BASL		CHLR							CH	EV	MG		Orange		v. weathered basalt floor.
																								WALLABY ANOMALY
1142485	5025	5000	L4	GRAB				S	BASL		CHLR							CH	EV	MG		Grey or		v. weathered, greenish earthy textured basalt.
1142486	5175	5000	L4	GRAB				S	CHLR		SILC							PC	Red	FG		Grey		Chert.
1142487	4990	5000	L4	GRAB				S	BASL		CHLR							CH	EV	MG		Greenish		Greenish-orange, earthy textured basalt - Chloritic.
1142488	4950	5000	L4	GRAB				F	BASL		CHLR							CH	EV	MG		Greenish		greenish basaltic floor.
1142489	4900	5000	L4	GRAB				O	SILT		HEMT?							CH	ES	FG	BD	Pinkish		Siltstone outcrop, generally laminated - grey, pinkish - hematitic alteration?
1142491	4845	5000	L4	GRAB				F	SILT									CH	ES	FG	BD	Grey		Grey, poorly laminated siltstone.
1142492	4825	5000	L4	GRAB				F	BASL		CHLR							CH	EV	MG		Greenish		greenish, chloritic? basalt.
1142493	4795	5000	L4	GRAB				S	SILT		HEMT?							CH	ES	FG	BD	Pinkish		Pinkish poorly laminated siltstone, grey - hematitic alt? hematitic alt?
1142494	4725	5000	L4	GRAB				F	SILT		HEMT?							CH	ES	FG	BD	Pinkish		Pinkish bedded f.g. siltstone hematitic? alteration?
1142495	4565	5000	L4	GRAB				F	FRCT	IRST														weathered ferruginous ironstone floor - after basalt?
1142496	4390	5000	L4	GRAB				O	DOLM									PC	Red	FG		Grey		Grey, v.f.g. Dolomite.

229242

5 cm

229242

PROJECT N. Arthur Anomalies 1:250000 SHEET BURIE SK 55-3 COLLECTED BY DW DATE August 1984
 TENEMENT EL 1/77 SAMPLE NO.S Various LOCAL GRID CROSS REF _____
 INVESTIGATION DPD 30495



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229244

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PO Box 66,
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Phone: (07) 352 5577
Telex: ALSEV 42344

Incorporated
in Queensland

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

Page 1 of 16

Batch Number: H022

Contact: MR. J. WEIR

No. of Samples: 226
Date Received: 02/08/84
Date Completed: 17/08/84

Order No. D.P.O. 30492 Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1141508		<2	<5	2	5	<5
1141509		<2	<5	<2	480	<5
1141510		<2	<5	<2	20	<5
1141511		<2	<5	<2	65	<5
1141512		<2	<5	2	270	<5
1141513		<2	<5	<2	15	<5
1141514		<2	<5	2	10	<5
1141515		2	<5	10	300	<5
1141516		<2	5	5	30	<5
1141517		2	<5	5	15	<5
1141518		40	100	400	75	25
1141519		110	50	40	20	<5
1141520		55	15	25	35	<5
1141521		25	15	20	95	<5
1141522		30	10	25	20	<5
1141523		50	10	55	105	10
1141524		40	20	30	45	5
1141525		50	15	35	160	10
1141526		15	10	20	40	<5
1141527		20	10	10	60	<5
1141528		15	10	10	10	<5
1141529		30	<5	15	5	<5
1141530		45	10	25	50	<5
1141531		60	<5	35	20	5
1141532		45	5	25	15	5
1141533		10	15	10	<5	<5
1141534		55	10	35	70	5
1141535		25	10	20	20	5
1141536		15	<5	30	25	10
1141537		35	<5	35	70	5
Detection Limit:		2	5	2	5	5

Comments:



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Signatory:

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Page 2 of 16

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Batch Number: H022

Contact: MR. J. WEIR

No. of Samples: 226
Date Received: 02/08/84

Order No. D.P.O. 30492

Sample Type: SOILS

Date Completed: 17/08/84

SAMPLE NUMBER	Element Unit Method	Fe	Mn	As	Ag
		% IC580	ppm IC580	ppm IC580	ppm IC580
1141508		0.21	20	<1	<1
1141509		0.39	30	<1	<1
1141510		0.21	10	<1	<1
1141511		0.58	50	<1	<1
1141512		0.18	10	<1	<1
1141513		0.19	10	<1	<1
1141514		0.38	30	<1	<1
1141515		0.57	100	<1	<1
1141516		0.22	10	<1	<1
1141517		0.43	40	<1	<1
1141518		4.60	120	<1	1
1141519		3.65	20	18	1
1141520		4.95	20	<1	1
1141521		3.30	30	6	1
1141522		3.74	30	<1	1
1141523		6.52	130	<1	1
1141524		6.00	40	3	1
1141525		7.93	90	12	1
1141526		3.31	50	7	1
1141527		2.73	20	8	<1
1141528		2.87	20	5	<1
1141529		5.06	20	<1	<1
1141530		6.75	20	<1	<1
1141531		7.20	150	<1	<1
1141532		5.57	50	<1	2
1141533		1.72	30	<1	1
1141534		7.95	30	<1	1
1141535		4.29	40	<1	1
1141536		5.78	220	<1	1
1141537		7.95	240	<1	2
Detection Limit:		0.01	5	1	1

Comments:



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Batch Number: H022

Contact: MR. J. WEIR

No. of Samples: 226

Date Received: 02/08/84

Order No. D.P.O. 30492

Sample Type: SOILS

Date Completed: 17/08/84

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1141538		20	<5	30	30	5
1141539		125	5	45	50	15
1141540		170	<5	45	130	10
1141541		130	<5	40	40	15
1141542		75	<5	40	45	10
1141543		20	<5	70	80	50
1141544		30	<5	70	50	10
1141545		35	5	50	40	5
1141546		25	<5	40	20	5
1141547		45	<5	50	40	10
1141548		15	<5	35	25	5
1141549		25	<5	30	80	5
1141550		10	<5	25	40	5
1141551		30	10	55	55	10
1141552		15	5	35	25	5
1141553		<2	<5	2	660	<5
1141554		<2	<5	2	85	<5
1141555		<2	<5	2	550	<5
1141556		2	<5	2	125	<5
1141557		<2	<5	<2	450	<5
1141558		2	<5	20	510	<5
1141559		<2	<5	2	770	<5
1141560		<2	<5	2	370	<5
1141561		<2	<5	<2	280	<5
1141562		<2	<5	5	390	<5
1141563		<2	<5	<2	20	<5
1141564		35	15	40	170	20
1141565		15	10	35	30	15
1141566		30	10	55	65	20
1141567		10	10	30	40	5
detection Limit:		2	5	2	5	5

Comments:

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Page 4 of 16

Batch Number: H022

Contact: MR. J. WEIR

No. of Samples: 226

Date Received: 02/08/84

Order No. D.P.O. 30492

Sample Type: SOILS

Date Completed: 17/08/84

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580	
1141538		5.35	720	<1	1	
1141539		8.81	350	<1	2	
1141540		12.3	140	<1	3	
1141541		11.1	300	<1	3	
1141542		9.45	420	<1	3	
1141543		11.7	1100	<1	2	
1141544		8.33	320	<1	2	
1141545		7.24	60	<1	2	
1141546		7.05	40	<1	1	
1141547		9.28	50	<1	2	
1141548		3.83	30	<1	1	
1141549		5.02	20	<1	1	
1141550		2.25	30	<1	1	
1141551		1.21	30	<1	1	
1141552		1.16	70	<1	1	
1141553		0.57	40	<1	<1	
1141554		0.43	20	<1	<1	
1141555		0.29	20	<1	<1	
1141556		0.42	20	<1	<1	
1141557		0.35	30	<1	<1	
1141558		0.38	30	<1	<1	
1141559		0.65	50	<1	<1	
1141560		0.31	30	<1	<1	
1141561		0.22	20	<1	<1	
1141562		0.44	40	<1	<1	
1141563		0.14	<10	<1	<1	
1141564		9.50	90	14	3	
1141565		0.55	40	<1	<1	
1141566		6.49	470	5	1	
1141567		4.50	150	1	<1	
Detection Limit:		0.01	5	1	1	

Comments:

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Batch Number: H022

Contact: MR. J. WEIR

No. of Samples: 226
Date Received: 02/08/84
Date Completed: 17/08/84

Order No. D.P.O. 30492

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1141568		105	5	130	230	50
1141569		150	<5	135	270	125
1141570		60	15	65	85	40
1141571		40	20	55	85	65
1141572		75	5	35	35	10
1141573		70	10	35	40	10
1141574		70	10	30	25	5
1141575		45	5	55	40	15
1141576		165	<5	50	65	10
1141577		125	<5	45	50	10
1141578		200	<5	50	55	15
1141579		100	<5	50	55	15
1141580		135	<5	45	45	10
1141581		90	<5	50	55	15
1141582		80	5	55	70	10
1141583		15	5	25	20	5
1141584		20	<5	55	85	25
1141585		5	5	30	25	5
1141586		5	<5	25	20	5
1141587		2	<5	20	30	<5
1141588		2	65	40	25	<5
1141589		<2	10	15	20	<5
1141590		2	10	25	115	<5
1141591		45	<5	25	90	15
1141592		35	<5	35	140	15
1141593		25	60	20	30	5
1141594		15	25	15	20	<5
1141595		5	10	15	25	<5
1141596		<2	5	5	50	<5
1141597		<2	5	2	40	<5
Detection Limit:		2	5	2	5	5

Comments:

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CONSULTING ANALYTICAL CHEMISTS

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

Page 6 of 16

Batch Number: H022

Contact: MR. J. WEIR
Order No. D.P.O. 30492

No. of Samples: 226
Date Received: 02/08/84
Date Completed: 17/08/84

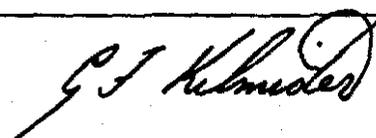
Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Fe	Mn	As	Ag
		% IC580	ppm IC580	ppm IC580	ppm IC580
1141568		17.8	780	<1	3
1141569		14.8	1500	<1	2
1141570		5.17	720	<1	1
1141571		5.40	2650	<1	2
1141572		6.75	190	<1	2
1141573		8.00	120	<1	2
1141574		7.01	70	<1	2
1141575		7.42	310	<1	2
1141576		8.24	130	<1	3
1141577		10.7	180	<1	3
1141578		10.6	260	<1	4
1141579		12.4	320	<1	3
1141580		11.6	310	<1	3
1141581		10.8	290	<1	3
1141582		9.77	230	<1	1
1141583		3.27	50	<1	1
1141584		5.87	140	<1	1
1141585		1.70	50	<1	1
1141586		4.04	20	<1	<1
1141587		1.04	20	<1	1
1141588		1.39	20	<1	<1
1141589		0.44	20	<1	1
1141590		1.05	20	<1	1
1141591		6.53	110	<1	2
1141592		6.30	110	<1	1
1141593		3.44	30	24	2
1141594		1.65	30	2	2
1141595		1.02	20	1	1
1141596		0.19	10	1	<1
1141597		0.25	20	<1	<1
Detection Limit:		0.01	5	1	1

Comments:

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CONSULTING ANALYTICAL CHEMISTS

LABORATORY REPORT

Incorporated in Queensland

Page 7 of 16

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

Batch Number: **H022**

Contact: **MR. J. WEIR**

No. of Samples: **226**
Date Received: **02/08/84**

Order No. **D.P.O. 30492**

Sample Type: **SOILS**

Date Completed: **17/08/84**

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1141598		<2	5	5	55	<5
1141599		2	<5	5	35	<5
1141600		<2	<5	5	260	<5
1141601		<2	<5	2	25	<5
1141602		<2	<5	5	270	<5
1141603		<2	<5	2	250	<5
1141604		<2	<5	5	360	<5
1141605		<2	<5	5	400	<5
1141606		<2	<5	5	260	<5
1141607		<2	5	5	300	<5
1141608		<2	<5	<2	320	<5
1141609		<2	<5	2	270	<5
1141610		<2	5	10	135	<5
1141611		10	5	10	195	<5
1141612		2	5	2	330	<5
1141613		5	5	5	420	<5
1141614		<2	<5	2	530	<5
1141615		2	10	5	30	<5
1141616		100	45	10	70	<5
1141617		2	<5	5	35	<5
1141618		2	5	5	15	<5
1141619		2	5	10	240	<5
1141620		2	10	10	30	<5
1141621		2	<5	15	25	<5
1141622		25	5	20	120	<5
1141623		<2	5	10	25	<5
1141624		5	<5	10	25	<5
1141625		5	5	5	600	<5
1141626		<2	5	10	30	<5
1141627		2	5	5	25	<5
Detection Limit		2	5	2	5	5

Comments:

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Signatory: *G. J. McInnes*

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Client: CRA EXPLORATION PTY. LIMITED
Address: P.O. BOX 138
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Batch Number: H022

Contact: MR. J. WEIR

No. of Samples: 226
Date Received: 02/08/84
Date Completed: 17/08/84

Order No. D.P.O. 30492

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580
1141598		0.19	10	<1	<1
1141599		0.27	30	<1	<1
1141600		0.25	20	<1	<1
1141601		0.24	10	<1	<1
1141602		0.22	20	<1	<1
1141603		0.17	10	<1	<1
1141604		0.28	20	<1	<1
1141605		0.32	30	<1	<1
1141606		0.19	20	<1	<1
1141607		0.22	20	<1	<1
1141608		0.22	20	<1	<1
1141609		0.18	20	<1	<1
1141610		0.25	20	<1	<1
1141611		0.26	20	<1	<1
1141612		0.27	20	<1	<1
1141613		0.31	30	<1	<1
1141614		0.36	30	2	<1
1141615		0.46	30	<1	<1
1141616		1.29	10	4	<1
1141617		0.27	10	<1	<1
1141618		0.35	20	<1	<1
1141619		0.33	20	<1	<1
1141620		0.40	20	<1	<1
1141621		0.50	40	<1	1
1141622		0.89	20	<1	2
1141623		0.27	10	<1	1
1141624		0.75	50	<1	<1
1141625		0.69	40	<1	1
1141626		0.38	20	<1	1
1141627		0.70	40	<1	1
Detection Limit:		0.01	5	1	1

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Address: P.O. BOX 138
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Page 9 of 1

Batch Number: H022

Contact: MR. J. WEIR

No. of Samples: 226

Date Received: 02/08/8

Order No. O.P.O. 30492

Sample Type: SOILS

Date Completed: 17/08/8

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1141628		<2	<5	5	350	<5
1141629		<2	5	5	35	<5
1141630		<2	<5	5	15	<5
1141631		2	<5	10	510	<5
1141632		<2	10	15	30	<5
1141633		<2	10	10	15	<5
1141634		<2	<5	5	320	<5
1141635		<2	<5	2	25	<5
1141636		<2	<5	5	15	<5
1141637		<2	<5	5	420	<5
1141638		10	<5	5	25	<5
1141639		2	<5	5	15	<5
1141640		<2	<5	2	320	<5
1141641		<2	<5	5	40	<5
1141642		<2	<5	2	40	<5
1141643		<2	<5	2	610	<5
1141644		<2	<5	2	40	<5
1141645		<2	<5	2	40	<5
1141646		<2	<5	2	500	<5
1141647		<2	<5	2	30	<5
1141648		25	<5	15	45	<5
1141649		5	15	10	145	<5
1141650		10	5	20	30	<5
1141651		2	10	10	15	<5
1141652		5	<5	15	155	<5
1141653		10	10	15	35	<5
1141654		5	10	20	30	<5
1141655		45	<5	65	165	15
1141656		35	<5	35	45	5
1141657		20	<5	30	25	5
Detection Limit:		2	5	2	5	5

Comments:

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

Batch Number: H022

Contact: MR. J. WEIR

No. of Samples: 226
Date Received: 02/08/84
Date Completed: 17/08/84

Order No. D.P.O. 30492

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580
1141628		0.40	20	<1	1
1141629		0.40	20	<1	1
1141630		0.47	30	<1	1
1141631		0.51	30	<1	1
1141632		0.44	20	<1	3
1141633		0.45	30	<1	1
1141634		0.32	20	<1	1
1141635		0.24	10	<1	<1
1141636		0.45	30	<1	1
1141637		0.46	30	<1	1
1141638		0.35	10	<1	1
1141639		0.45	40	<1	<1
1141640		0.30	20	<1	<1
1141641		0.32	20	<1	1
1141642		0.31	20	<1	1
1141643		0.50	40	<1	1
1141644		0.27	10	<1	1
1141645		0.33	20	<1	1
1141646		0.39	30	<1	1
1141647		0.26	10	<1	1
1141648		6.57	20	<1	1
1141649		2.35	20	<1	1
1141650		4.73	30	95	1
1141651		2.07	30	2	1
1141652		3.29	20	7	1
1141653		3.16	30	6	1
1141654		1.06	40	<1	1
1141655		14.8	120	<1	2
1141656		8.30	120	<1	1
1141657		7.24	70	<1	1
Detection Limit:		0.01	5	1	1

Comments:



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

Batch Number: H022

Contact: MR. J. WEIR

No. of Samples: 226
Date Received: 02/08/84

Order No. D.P.O. 30492

Sample Type: SOILS

Date Completed: 17/08/84

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1141658		20	<5	25	35	<5
1141659		45	<5	45	55	10
1141660		75	<5	70	95	25
1141661		35	<5	30	50	15
1141662		40	<5	60	60	15
1141663		30	5	35	50	5
1141664		35	<5	40	40	10
1141665		55	<5	40	45	10
1141666		45	<5	65	100	15
1141667		45	<5	55	40	10
1141668		50	5	60	75	10
1141669		30	<5	40	30	5
1141670		45	<5	50	40	10
1141671		55	<5	50	30	5
1141672		55	<5	40	25	5
1141673		50	<5	100	50	15
1141674		25	<5	75	95	20
1141675		25	<5	90	35	10
1141676		15	<5	105	35	10
1141677		15	<5	110	35	5
1141678		60	<5	50	30	10
1141679		30	<5	50	30	10
1141680		20	<5	75	75	10
1141681		15	<5	80	40	10
1141682		25	<5	90	75	15
1141683		25	<5	65	65	20
1141684		30	<5	40	55	30
1141685		15	<5	40	20	10
1141686		35	<5	40	120	35
1141687		15	<5	40	40	10
Detection Limit:		2	5	2	5	5

Comments:



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Client: CRA EXPLORATION PTY. LIMITED
Address: P.O. BOX 138
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Page 12 of 16

Batch Number: H022

Contact: MR. J. WEIR

No. of Samples: 226
Date Received: 02/08/84

Order No. D.P.O. 30492

Sample Type: SOILS

Date Completed: 17/08/84

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580
1141658		5.18	110	<1	1
1141659		9.64	390	<1	2
1141660		11.1	850	<1	2
1141661		11.9	390	<1	3
1141662		9.33	430	<1	2
1141663		6.98	70	<1	1
1141664		8.70	330	<1	2
1141665		8.46	160	<1	2
1141666		6.11	560	<1	1
1141667		8.53	350	<1	2
1141668		9.05	70	<1	2
1141669		7.32	60	<1	1
1141670		7.65	150	<1	2
1141671		8.07	110	<1	2
1141672		8.93	160	<1	2
1141673		17.9	200	<1	2
1141674		10.7	820	<1	2
1141675		8.78	250	<1	1
1141676		6.33	150	<1	1
1141677		5.50	60	<1	1
1141678		12.2	40	38	2
1141679		8.48	50	3	1
1141680		3.86	50	<1	1
1141681		3.79	60	<1	1
1141682		3.87	80	<1	1
1141683		3.94	220	<1	<1
1141684		4.09	310	<1	1
1141685		2.16	130	<1	1
1141686		4.11	170	<1	2
1141687		2.63	170	<1	1
Detection Limit:		0.01	5	1	1

Comments:



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Page 13 of 16

Batch Number: H022

Contact: MR. J. WEIR

No. of Samples: 226

Date Received: 02/08/84

Order No. D.P.O. 30492

Sample Type: SOILS

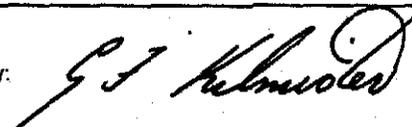
Date Completed: 17/08/84

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1141688		20	<5	40	40	15
1141689		2	<5	10	195	<5
1141690		<2	<5	10	15	<5
1141691		<2	<5	5	15	<5
1141692		<2	<5	5	260	<5
1141693		60	20	50	85	10
1141694		35	10	55	75	20
1141695		10	5	20	145	<5
1141696		30	20	35	40	5
1141697		140	<5	100	330	65
1141698		135	30	90	85	15
1141699		40	<5	25	70	5
1141700		75	<5	70	190	50
1141701		70	<5	45	155	15
1141702		40	<5	40	70	10
1141703		65	<5	60	80	10
1141704		210	<5	135	480	30
1141705		85	<5	75	360	30
1141706		60	<5	65	490	25
1141707		105	<5	80	730	60
1141708		20	<5	15	15	<5
1141709		20	5	15	15	<5
1141710		50	10	30	20	5
1141711		30	10	25	35	10
1141712		40	<5	45	55	10
1141713		50	<5	35	70	10
1141714		45	<5	35	40	10
1141715		30	<5	35	65	10
1141716		20	<5	30	60	10
1141717		35	<5	25	40	5
Detection Limit:		2	5	2	5	5

Comments:

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Batch Number: H022

Contact: MR. J. WEIR

No. of Samples: 226
Date Received: 02/08/84
Date Completed: 17/08/84

Order No. D.P.O. 30492

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Fe	Mn	As	Ag
		% IC580	ppm IC580	ppm IC580	ppm IC580
1141688		3.63	70	<1	1
1141689		0.35	30	<1	<1
1141690		0.26	20	<1	<1
1141691		0.28	20	<1	<1
1141692		0.29	30	<1	<1
1141693		2.04	30	<1	1
1141694		5.75	280	<1	1
1141695		1.41	30	<1	1
1141696		4.07	20	9	1
1141697		9.11	280	2	2
1141698		20.3	140	6	2
1141699		4.55	40	1	1
1141700		10.2	270	<1	1
1141701		10.4	60	<1	1
1141702		8.17	40	<1	1
1141703		7.06	60	<1	1
1141704		8.79	70	<1	2
1141705		7.67	80	<1	1
1141706		6.01	50	<1	1
1141707		5.23	100	<1	2
1141708		3.56	20	3	1
1141709		4.11	20	<1	1
1141710		5.67	30	5	1
1141711		7.81	30	<1	2
1141712		7.02	60	<1	2
1141713		8.03	80	<1	2
1141714		6.07	250	<1	2
1141715		9.40	230	<1	2
1141716		10.8	50	<1	2
1141717		7.13	30	<1	1
Detection Limit:		0.01	5	1	1

Comments:



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

Batch Number: H022

Contact: MR. J. WEIR

No. of Samples: 226
Date Received: 02/08/84
Date Completed: 17/08/84

Order No. D.P.O. 30492

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1141718		40	<5	40	45	5
1141719		40	<5	30	30	5
1141720		40	<5	30	40	5
1141721		30	<5	35	35	5
1141722		25	<5	20	15	<5
1141723		20	<5	15	10	<5
1141724		10	<5	15	35	<5
1141725		15	<5	30	55	10
1141726		2	<5	15	25	<5
1141727		5	<5	15	115	<5
1141728		2	<5	15	30	<5
1141729		5	5	20	30	<5
1141730		5	<5	20	140	<5
1141731		2	10	15	25	<5
1141732		2	5	20	25	<5
1141733		2	5	15	135	<5
Detection Limit:		2	5	2	5	5

Comments:



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

Batch Number: H022

Contact: MR. J. WEIR
Order No. D.P.O. 30492

No. of Samples: 226
Date Received: 02/08/84
Date Completed: 17/08/84

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580
1141718		9.54	20	<1	2
1141719		7.95	10	<1	2
1141720		9.90	10	<1	2
1141721		9.52	20	<1	2
1141722		5.82	20	2	1
1141723		4.65	10	<1	1
1141724		4.94	20	6	1
1141725		6.42	20	26	1
1141726		0.60	20	<1	<1
1141727		0.90	40	<1	<1
1141728		0.63	20	<1	1
1141729		0.62	50	<1	1
1141730		0.52	40	<1	1
1141731		0.43	30	<1	1
1141732		0.44	30	<1	1
1141733		0.34	30	<1	1
Detection Limit:		0.01	5	1	1

Comments:



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RODSNY PARK. TAS. 7018

Page 1 of 8

Batch Number: H022-1

Contact: MR. J. WEIR
Order No. D.P.O. 30492

Sample Type: SOILS

No. of Samples: 226
Date Received: 02/08/84
Date Completed: 16/08/84

SAMPLE NUMBER	Element Unit Method	Sn ppm XRF 1A	W ppm XRF 1A		
1141508		<5	20		
1141509		<5	40		
1141510		<5	<10		
1141511		<5	70		
1141512		<5	10		
1141513		<5	<10		
1141514		<5	50		
1141515		<5	40		
1141516		<5	<10		
1141517		<5	40		
1141518		<5	<10		
1141519		<5	<10		
1141520		<5	<10		
1141521		<5	10		
1141522		<5	<10		
1141523		<5	<10		
1141524		<5	<10		
1141525		<5	<10		
1141526		<5	<10		
1141527		<5	<10		
1141528		<5	<10		
1141529		<5	<10		
1141530		<5	<10		
1141531		<5	<10		
1141532		<5	<10		
1141533		<5	<10		
1141534		<5	<10		
1141535		<5	<10		
1141536		<5	<10		
1141537		<5	<10		
Detection Limit:		5	10		

Comments:

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Batch Number: H022-1

Contact: MR. J. WEIR
Order No. D.P.O. 30492

Sample Type: SOILS

No. of Samples: 226
Date Received: 02/08/84
Date Completed: 16/08/84

SAMPLE NUMBER	Element Unit Method	Sn ppm XRF 1A	W ppm XRF 1A
1141538		<5	<10
1141539		<5	<10
1141540		<5	<10
1141541		<5	<10
1141542		<5	<10
1141543		<5	<10
1141544		<5	<10
1141545		<5	<10
1141546		<5	<10
1141547		<5	<10
1141548		<5	10
1141549		5	<10
1141550		<5	10
1141551		<5	<10
1141552		<5	10
1141553		<5	60
1141554		<5	10
1141555		<5	30
1141556		<5	<10
1141557		<5	40
1141558		<5	30
1141559		<5	80
1141560		<5	30
1141561		<5	20
1141562		<5	40
1141563		<5	<10
1141564		<5	10
1141565		<5	<10
1141566		5	<10
1141567		<5	<10
Detection Limit:		5	10

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Batch Number: H022-1

Contact: MR. J. WEIR

No. of Samples: 226
 Date Received: 02/08/84
 Date Completed: 16/08/84

Order No. D.P.O. 30492

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Sn ppm XRF 1A	W ppm XRF 1A			
1141568		<5	<10			
1141569		<5	<10			
1141570		<5	<10			
1141571		<5	<10			
1141572		<5	<10			
1141573		<5	<10			
1141574		<5	<10			
1141575		<5	<10			
1141576		<5	<10			
1141577		<5	<10			
1141578		<5	<10			
1141579		<5	<10			
1141580		<5	<10			
1141581		<5	<10			
1141582		<5	<10			
1141583		<5	<10			
1141584		<5	<10			
1141585		<5	<10			
1141586		<5	<10			
1141587		<5	<10			
1141588		<5	<10			
1141589		<5	<10			
1141590		<5	10			
1141591		<5	<10			
1141592		5	<10			
1141593		<5	<10			
1141594		<5	<10			
1141595		<5	10			
1141596		<5	<10			
1141597		5	20			
Detection Limit.		5	10			

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Address: P.O. BOX 138
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Batch Number: H022-1

Contact: MR. J. WEIR

No. of Samples: 226

Date Received: 02/08/84

Order No. D.P.O. 30492

Sample Type: SOILS

Date Completed: 16/08/84

SAMPLE NUMBER	Element Unit Method	Sn ppm XRF 1A	W ppm XRF 1A			
1141598		<5	<10			
1141599		5	20			
1141600		5	10			
1141601		<5	<10			
1141602		10	20			
1141603		15	10			
1141604		<5	20			
1141605		<5	20			
1141606		<5	10			
1141607		<5	10			
1141608		<5	10			
1141609		5	<10			
1141610		<5	10			
1141611		5	10			
1141612		<5	20			
1141613		<5	30			
1141614		<5	30			
1141615		<5	30			
1141616		<5	<10			
1141617		<5	<10			
1141618		<5	20			
1141619		<5	20			
1141620		<5	10			
1141621		<5	50			
1141622		<5	<10			
1141623		<5	<10			
1141624		5	70			
1141625		<5	50			
1141626		<5	<10			
1141627		<5	70			
Detection Limit:		5	10			

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Batch Number: H022-1

Contact: MR. J. WEIR
Order No. D.P.O. 30492

No. of Samples: 226
Date Received: 02/08/84
Date Completed: 16/08/84

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Sn ppm XRF 1A	W ppm XRF 1A		
1141628		<5	30		
1141629		<5	<10		
1141630		<5	50		
1141631		<5	30		
1141632		<5	<10		
1141633		<5	30		
1141634		<5	20		
1141635		<5	<10		
1141636		<5	40		
1141637		<5	30		
1141638		<5	<10		
1141639		5	60		
1141640		<5	20		
1141641		<5	<10		
1141642		<5	30		
1141643		<5	40		
1141644		<5	<10		
1141645		<5	30		
1141646		<5	30		
1141647		<5	<10		
1141648		<5	<10		
1141649		<5	10		
1141650		<5	<10		
1141651		<5	30		
1141652		<5	20		
1141653		<5	<10		
1141654		<5	<10		
1141655		5	<10		
1141656		<5	<10		
1141657		<5	<10		
Detection Limit:		5	10		

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Address: P.O. BOX 138
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Batch Number: H022-1

Contact: MR. J. WEIR

No. of Samples: 226
Date Received: 02/08/84
Date Completed: 16/08/84

Order No: D.P.O. 30492

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Sn ppm XRF 1A	W ppm XRF 1A			
1141658		<5	<10			
1141659		<5	<10			
1141660		<5	<10			
1141661		<5	<10			
1141662		<5	<10			
1141663		<5	<10			
1141664		<5	<10			
1141665		<5	<10			
1141666		<5	<10			
1141667		<5	<10			
1141668		<5	<10			
1141669		<5	<10			
1141670		<5	<10			
1141671		<5	<10			
1141672		<5	<10			
1141673		<5	<10			
1141674		5	<10			
1141675		<5	<10			
1141676		<5	<10			
1141677		<5	<10			
1141678		<5	<10			
1141679		<5	<10			
1141680		<5	<10			
1141681		<5	<10			
1141682		<5	<10			
1141683		<5	<10			
1141684		<5	<10			
1141685		<5	10			
1141686		<5	<10			
1141687		<5	<10			
Detection Limit:		5	10			

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Page 7 of 8

Batch Number: H022-1

Contact: MR. J. WEIR
Order No. D.P.O. 30492

No. of Samples: 226
Date Received: 02/08/84
Date Completed: 16/08/84

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Sn ppm XRF 1A	M ppm XRF 1A			
1141688		<5	<10			
1141689		<5	20			
1141690		5	<10			
1141691		<5	20			
1141692		<5	20			
1141693		<5	<10			
1141694		<5	10			
1141695		<5	10			
1141696		<5	<10			
1141697		<5	<10			
1141698		<5	<10			
1141699		<5	<10			
1141700		<5	<10			
1141701		<5	<10			
1141702		<5	<10			
1141703		<5	<10			
1141704		<5	<10			
1141705		<5	<10			
1141706		<5	<10			
1141707		<5	<10			
1141708		<5	<10			
1141709		<5	<10			
1141710		<5	<10			
1141711		<5	<10			
1141712		<5	<10			
1141713		<5	<10			
1141714		<5	<10			
1141715		<5	<10			
1141716		<5	<10			
1141717		<5	<10			
Detection Limit:		5	10			

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Batch Number: H022-1

Contact: MR. J. WEIR
Order No. D.P.O. 30492

No. of Samples: 226
Date Received: 02/08/84
Date Completed: 16/08/84

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Sn ppm XRF 1A	W ppm XRF 1A			
1141718		<5	<10			
1141719		<5	<10			
1141720		<5	<10			
1141721		<5	<10			
1141722		<5	<10			
1141723		<5	<10			
1141724		<5	10			
1141725		<5	<10			
1141726		<5	10			
1141727		<5	20			
1141728		<5	<10			
1141729		<5	40			
1141730		<5	10			
1141731		<5	<10			
1141732		<5	10			
1141733		<5	10			
Detection Limit:		5	10			

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Address: P.O. BOX 138
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Batch Number: *Plotted* K029

Contact: MR. J. WEIR

Lukey

No. of Samples: 28
Date Received: 04/10/84
Date Completed: 11/10/84

Order No: D.P.O. 31951

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Cu ✓ ppm IC580	Pb ✓ ppm IC580	Zn ✓ ppm IC580	Ni ✓ ppm IC580	Co ✓ ppm IC580
1141931		2	<5	10	50	<5
1141932		2	<5	5	20	<5
1141933		2	<5	10	40	<5
1141934		10	10	25	70	<5
1141935		20	10	25	25	5
1141936		10	5	10	20	<5
1141937		85	10	40	70	10
1141938		120	25	40	35	10
1141939		40	15	15	15	<5
1141940		50	<5	30	45	10
1141941		35	10	20	15	<5
1141942		25	10	15	25	<5
1141943		70	<5	30	55	10
1141944		175	<5	75	55	20
1141945		45	<5	55	55	15
1141946		40	<5	95	120	35
1141947		40	5	35	40	5
1141948		25	<5	30	30	5
1141949		25	<5	30	35	5
1141950		15	<5	20	35	<5
1141951		5	<5	10	10	<5
1141952		<2	<5	10	20	<5
1141953		2	<5	10	<5	<5
1141954		<2	<5	10	10	<5
1141955		<2	<5	10	20	<5
1141956		2	<5	10	25	<5
1141957		2	<5	15	10	<5
1141958		<2	<5	20	20	<5
Detection Limit		2	5	2	5	5

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Batch Number: K029

Contact: MR. J. WEIR

No. of Samples: 28
Date Received: 04/10/84
Date Completed: 11/10/84

Order No: D.P.O. 31951

Sample Type: SOILS

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580	Mo ppm IC580
1141931		0.03	<5	1	<1	<5
1141932		0.02	<5	1	<1	<5
1141933		0.02	<5	2	<1	<5
1141934		3.45	15	26	1	5
1141935		8.76	20	46	1	10
1141936		1.55	20	14	<1	10
1141937		9.68	55	18	2	10
1141938		4.78	115	16	1	5
1141939		4.69	20	16	1	5
1141940		8.41	170	18	2	10
1141941		4.78	70	18	1	5
1141942		2.74	20	10	1	5
1141943		7.23	240	14	2	10
1141944		13.8	250	16	2	15
1141945		9.07	650	18	2	10
1141946		11.8	175	22	2	10
1141947		6.95	85	14	1	5
1141948		5.78	25	12	1	5
1141949		6.24	25	20	1	10
1141950		3.84	20	16	1	5
1141951		0.27	10	4	<1	<5
1141952		0.04	<5	<1	<1	<5
1141953		0.05	5	2	<1	<5
1141954		0.06	10	<1	<1	<5
1141955		0.04	5	<1	<1	<5
1141956		0.03	<5	<1	<1	<5
1141957		0.04	10	<1	<1	<5
1141958		0.04	10	<1	<1	<5
Detection Limit		0.01	5	1	1	5

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Address: P.O. BOX 138
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Batch Number: J024-1

Contact: MR. J. WEIR
Order No. D.P.O. 31915

Sample Type: SOIL *Green Anomaly*

No. of Samples: 51
Date Received: 05/09/84
Date Completed: 17/09/84

SAMPLE NUMBER	Element Unit Method	Cu ✓ ppm IC580	Pb ✓ ppm IC580	Zn ✓ ppm IC580	Ni ✓ ppm IC580	Co ✓ ppm IC580
1141866		20	10	35	30	<5
1141867		35	5	40	40	10
1141868		20	<5	35	25	<5
1141869		20	5	25	25	5
1141870		25	5	30	30	5
1141871		25	5	30	25	5
1141872		20	15	25	15	5
1141873		40	10	50	40	10
1141874		40	5	40	45	5
1141875		20	20	25	25	5
1141876		30	25	30	30	5
1141877		35	5	35	35	5
1141878		45	5	50	35	10
1141879		25	<5	55	50	30
1141880		40	20	55	80	310
1141881		165	<5	110	115	50
1141882		45	10	85	35	10
1141883		70	10	40	30	10
1141884		50	25	45	50	15
1141885		35	25	25	30	10
1141886		25	10	20	20	<5
1141887		55	20	20	20	5
1141888		35	40	30	20	5
1141889		20	30	20	20	<5
1141890		10	10	20	20	<5
1141891		30	20	25	20	5
1141892		15	15	25	20	<5
1141893		10	20	30	10	<5
1141894		10	10	15	50	<5
1141895		2	<5	10	15	<5
Detection Limit:		2	5	2	5	5

Comments:



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Address: P.O. BOX 138
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Batch Number: J024-1

Contact: MR. J. WEIR
Order No. D.P.O. 31915

No. of Samples: 51
Date Received: 05/09/84
Date Completed: 17/09/84

Sample Type: SOIL

SAMPLE NUMBER	Element Unit Method	Fe	Mn	As	Ag
		% IC580	ppm IC580	ppm IC580	ppm IC580
1141866		3.64	20	16	1
1141867		7.98	25	20	2
1141868		4.13	20	14	1
1141869		4.86	20	16	1
1141870		6.23	20	18	1
1141871		7.04	20	18	1
1141872		4.30	30	14	<1
1141873		8.73	55	12	1
1141874		8.44	20	20	2
1141875		4.57	15	18	1
1141876		5.99	20	20	2
1141877		6.13	50	22	1
1141878		8.75	75	22	1
1141879		11.5	280	16	2
1141880		8.31	6400	20	2
1141881		7.67	800	18	2
1141882		6.39	85	16	1
1141883		7.20	230	22	1
1141884		7.74	100	20	2
1141885		4.66	50	20	2
1141886		4.03	25	16	<1
1141887		5.50	15	38	1
1141888		4.70	35	46	1
1141889		2.97	15	28	<1
1141890		2.41	20	18	<1
1141891		3.66	30	30	<1
1141892		2.63	25	20	<1
1141893		1.09	20	16	<1
1141894		1.29	15	14	<1
1141895		0.04	<5	<1	<1
Detection Limit:		0.01	5	1	1

Comments:



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Signatory:

Australian Laboratory Services PTY. LTD.

Office & Laboratory
32 Shand Street
Stafford, Q. 4053
PO Box 66,
Everton Park, Q. 4053
Phone: (07) 352 5577
Telex: ALSEV 42344

CONSULTING ANALYTICAL CHEMISTS

LABORATORY REPORT

Incorporated
in Queensland

Page 3 of 4

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

Batch Number: J024-1

Contact: MR. J. WEIR

No. of Samples: 51
Date Received: 05/09/84
Date Completed: 17/09/84

Order No. D.P.O. 31915

Sample Type: SOIL

SAMPLE NUMBER	Element Unit Method	Cu ppm IC580	Pb ppm IC580	Zn ppm IC580	Ni ppm IC580	Co ppm IC580
1141896		5	20	10	10	<5
1141897		5	5	10	15	<5
1141898		10	5	10	10	<5
1141899		5	<5	10	35	<5
1141900		2	<5	10	5	<5
1141901		10	5	15	120	<5
1141902		120	10	85	195	25
1141903		10	5	20	60	<5
1141904		5	10	5	20	<5
1141905		2	5	10	95	<5
1141906		2	<5	5	35	<5
1141907		2	<5	10	85	<5
1141908		2	<5	5	35	<5
1141909		2	<5	2	30	<5
1141910		2	<5	10	30	<5
1141911		2	5	5	10	<5
1141912		2	<5	10	25	<5
1141913		2	<5	10	15	<5
1141914		2	<5	10	20	<5
1141915		2	<5	5	30	<5
1141916		2	<5	10	20	<5
Detection Limit:		2	5	2	5	5

Comments:



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Signatory:

Australian Laboratory Services PTY. LTD.

Incorporated
in Queensland

CONSULTING ANALYTICAL CHEMISTS

LABORATORY REPORT

Office & Laboratory
32 Shand Street
Stafford, Q. 4053
PO Box 66,
Everton Park, Q. 4053
Phone: (07) 352 5577
Telex: ALSEV 42344

Page 4 of 4

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

Batch Number: J024-1

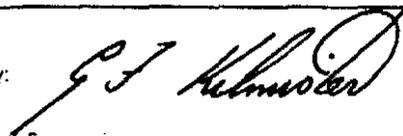
Contact: MR. J. WEIR
Order No. D.P.O. 31915

Sample Type: SOIL

No. of Samples: 51
Date Received: 05/09/84
Date Completed: 17/09/84

SAMPLE NUMBER	Element Unit Method	Fe % IC580	Mn ppm IC580	As ppm IC580	Ag ppm IC580	
1141896		1.19	10	20	<1	
1141897		0.09	<5	3	<1	
1141898		0.13	5	4	<1	
1141899		0.04	<5	1	<1	
1141900		0.03	10	<1	<1	
1141901		0.67	20	5	<1	
1141902		2.23	110	12	<1	
1141903		0.16	25	2	<1	
1141904		0.02	<5	3	<1	
1141905		0.03	<5	1	<1	
1141906		0.02	<5	<1	<1	
1141907		0.03	<5	1	<1	
1141908		0.03	<5	1	<1	
1141909		0.02	<5	1	<1	
1141910		0.02	<5	2	<1	
1141911		0.01	<5	3	<1	
1141912		0.02	<5	<1	<1	
1141913		0.02	<5	<1	<1	
1141914		0.02	<5	<1	<1	
1141915		0.02	<5	<1	<1	
1141916		0.03	<5	<1	<1	
Detection Limit		0.01	5	1	1	

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Signatory: 



Registered
Laboratory

E.L. 1/77

RUBY

WHITE

NORTH

RED

ARTHUR

ELECTRIC BLUE

ROSE BLUE

WALLABY

ALERT CREEK (TIN)

SALMON RIVER

ANOMALIES

GREEN

BLACKWATER RIVULET

SUNDOWN CHERT

FRANKLAND RIVULET

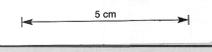
5430,000 N

E.L. 1/77

ALPINE

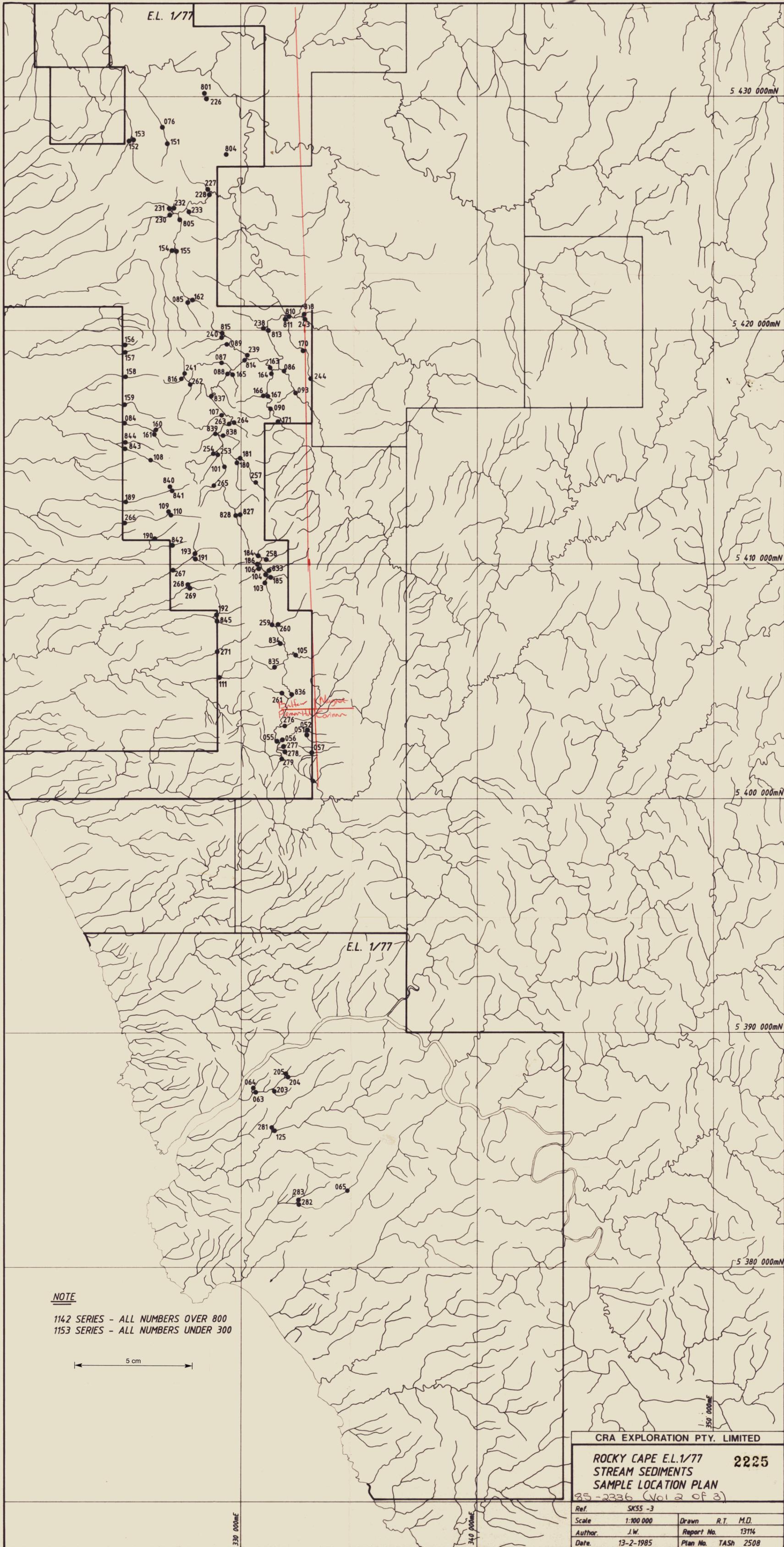
CRA EXPLORATION PTY. LIMITED
 229274
 ROCKY CAPE E.L. 1/77
 PROSPECT AND GRID LINE
 LOCATION PLAN
 (35-2330) (Vol 2/3)

Ref:	SK55 - 3 5
Scale:	1 : 100 000
Author:	J.W.
Date:	25 - 2 - 1985
Drawn:	R.T.
Report No.:	1314
Plan No.:	TASH 2533



330,000 E

2224

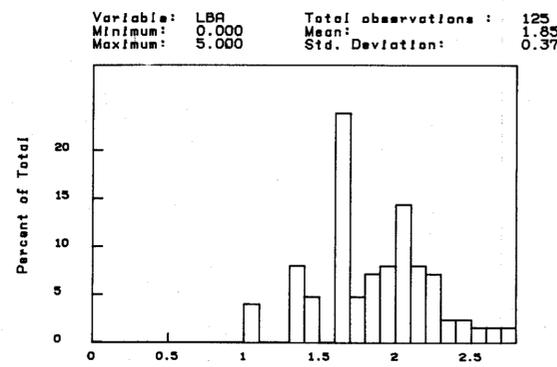
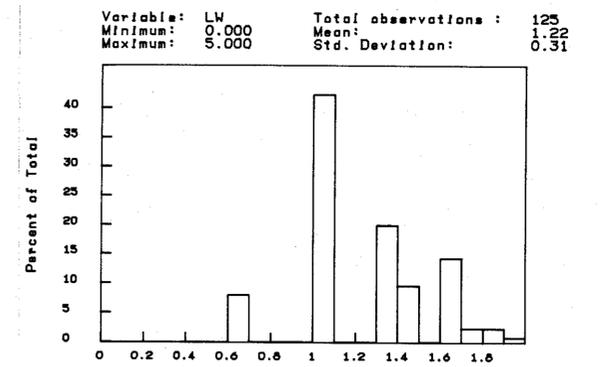
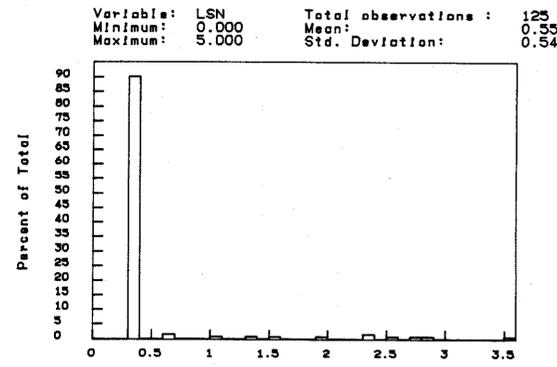
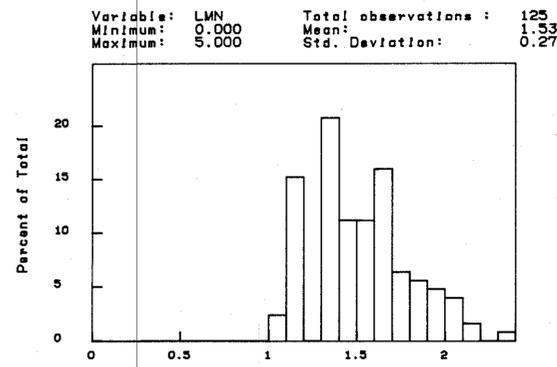
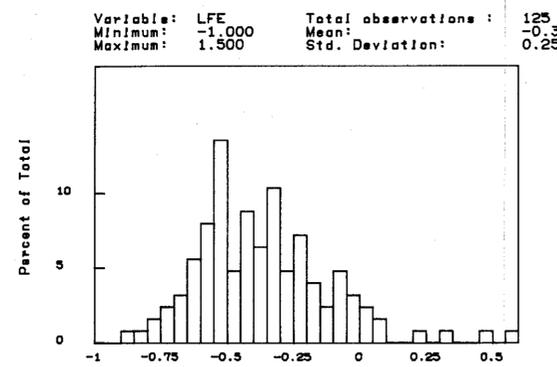
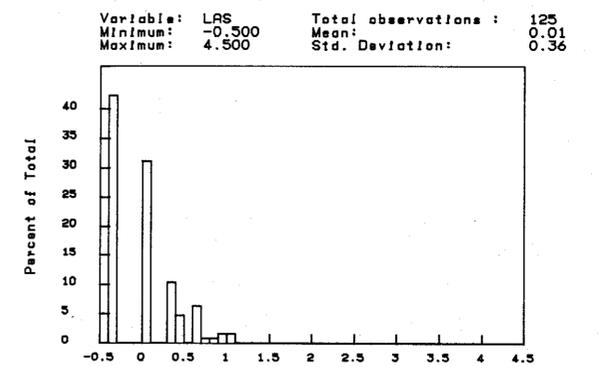
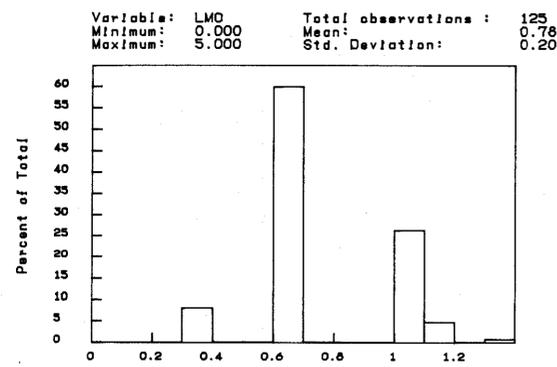
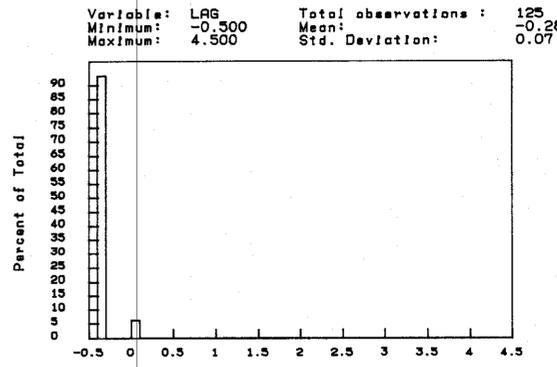
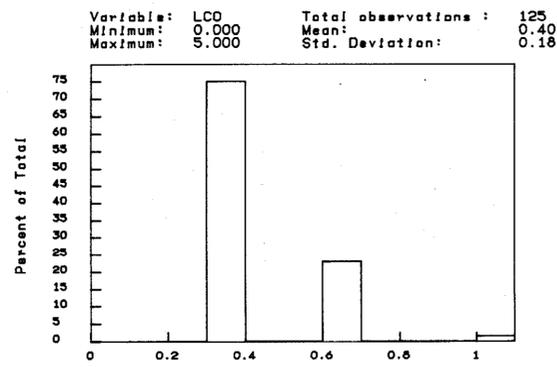
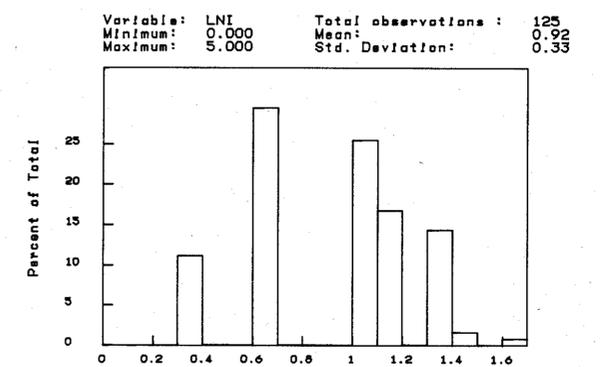
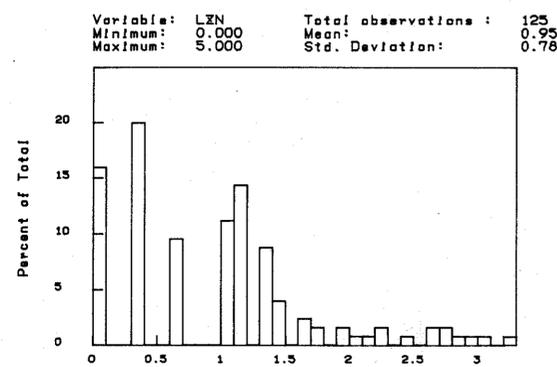
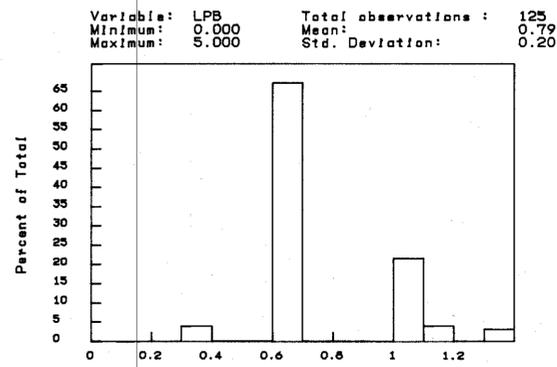
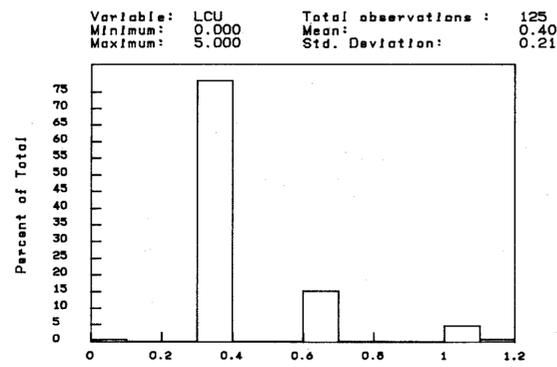


NOTE

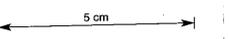
1142 SERIES - ALL NUMBERS OVER 800
 1153 SERIES - ALL NUMBERS UNDER 300



CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE E.L.1/77		2225	
STREAM SEDIMENTS			
SAMPLE LOCATION PLAN			
85-2336 (Vol 2 of 3)			
Ref.	SK55 -3	Drawn	R.T. M.D.
Scale	1:100 000	Report No.	13114
Author	J.W.	Date	13-2-1985
Date	13-2-1985	Plan No.	TASH 2508



229276



E.L. 1/77

5 430 000mN

5 420 000mN

5 410 000mN

5 400 000mN

5 390 000mN

5 380 000mN

350 000mE

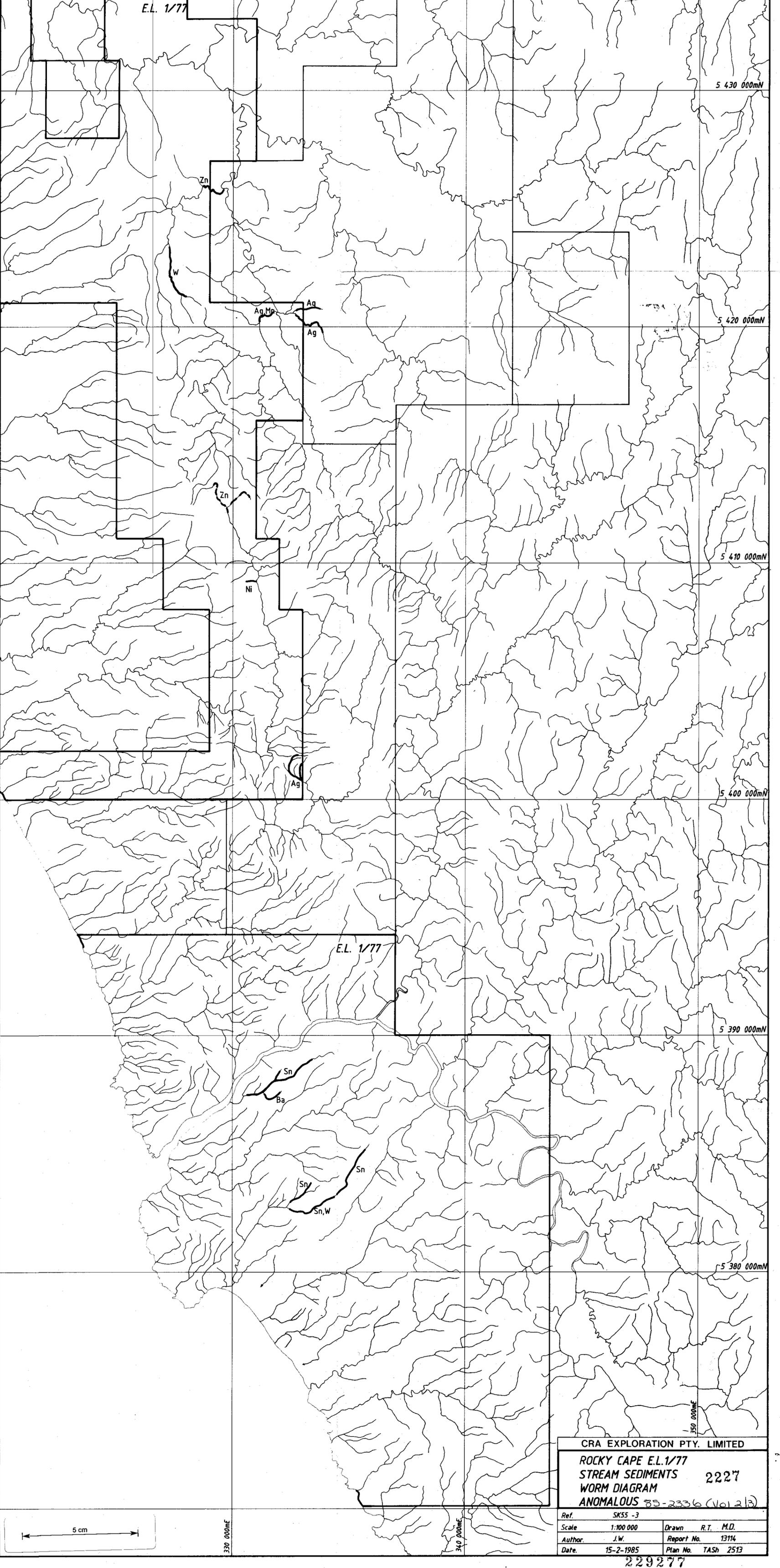
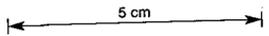
330 000mE

340 000mE

CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE E.L.1/77			
STREAM SEDIMENTS		2227	
WORM DIAGRAM		ANOMALOUS 85-2336 (Vol 2/3)	
Ref.	SK55 -3	Drawn	R.T. M.D.
Scale	1:100 000	Report No.	13114
Author	J.W.	Plan No.	TASH 2513
Date	15-2-1985		

229277

5 cm



E.L. 1/77

5 430 000mN

5 420 000mN

5 410 000mN

5 400 000mN

5 390 000mN

5 380 000mN

E.L. 1/77

350 000mE

340 000mE

330 000mE

CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE E.L.1/77			
STREAM SEDIMENTS			2228
WORM DIAGRAM			85-2336
POSSIBLY ANOMALOUS			(Vol 2/3)
Ref.	SK55 -3	Drawn	R.T. M.D.
Scale	1:100 000	Report No.	13114
Author	J.W.	Date	15-2-1985
Date	15-2-1985	Plan No.	TASh 2514

5 cm

229278

E.L. 1/77

5 430 000mN

5 420 000mN

5 410 000mN

5 400 000mN

5 390 000mN

5 380 000mN

E.L. 1/77

ALL SAMPLE NUMBERS
1153 SERIES.

CRA EXPLORATION PTY. LIMITED

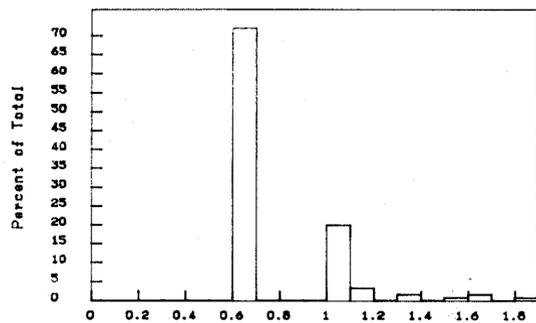
ROCKY CAPE E.L.1/77
PANNED CONCENTRATES 2229
SAMPLE LOCATION PLAN
85-2386 (Vol 2/3)

Ref.	SK55 -3	Drawn	R.T. M.D.
Scale	1:100 000	Report No.	13114
Author.	J.W.	Plan No.	TASH 2509
Date.	13-2-1985		

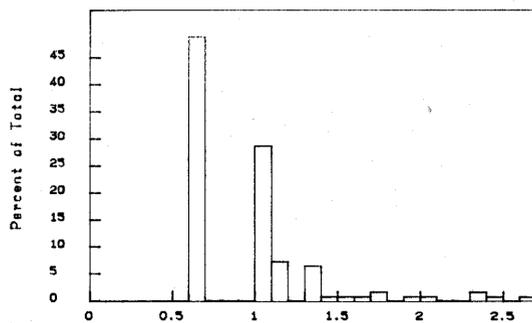
5 cm

229279

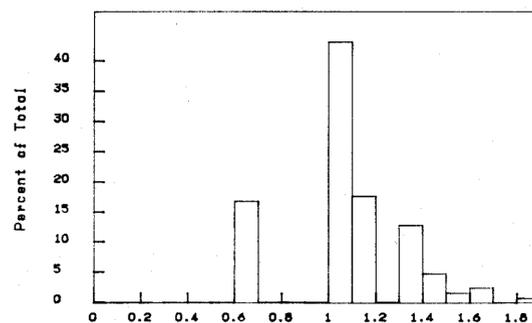
Variable: LCU Total observations: 125
 Minimum: 0.000 Mean: 0.81
 Maximum: 5.000 Std. Deviation: 0.22



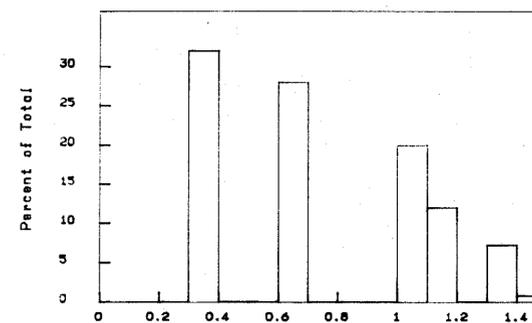
Variable: LPB Total observations: 125
 Minimum: 0.000 Mean: 0.97
 Maximum: 5.000 Std. Deviation: 0.39



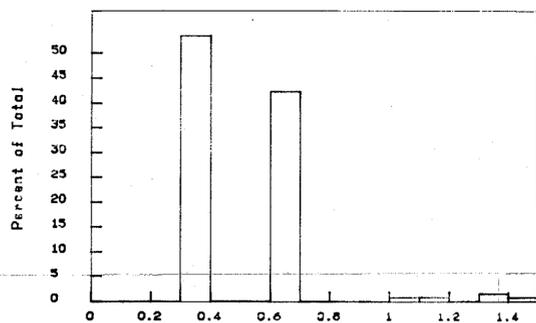
Variable: LZN Total observations: 125
 Minimum: 0.000 Mean: 1.08
 Maximum: 5.000 Std. Deviation: 0.25



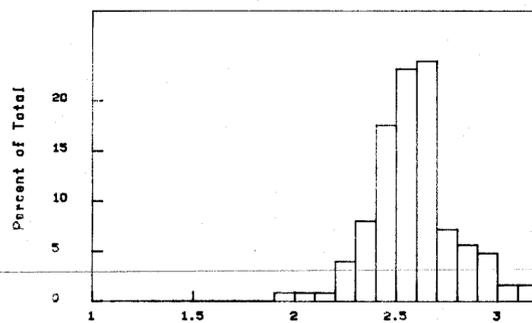
Variable: LNI Total observations: 125
 Minimum: 0.000 Mean: 0.74
 Maximum: 5.000 Std. Deviation: 0.36



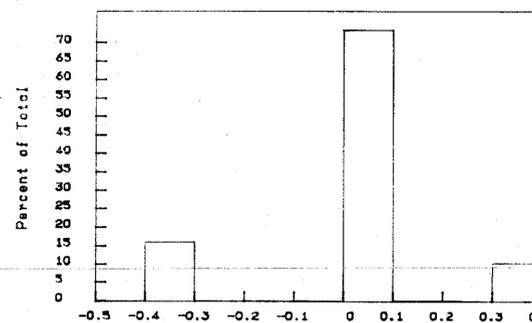
Variable: LCO Total observations: 125
 Minimum: 0.000 Mean: 0.51
 Maximum: 5.000 Std. Deviation: 0.25



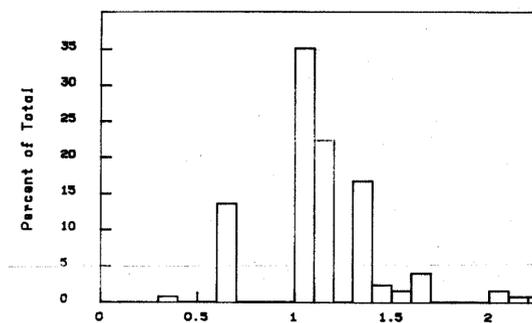
Variable: LCR Total observations: 125
 Minimum: 1.000 Mean: 2.59
 Maximum: 6.000 Std. Deviation: 0.20



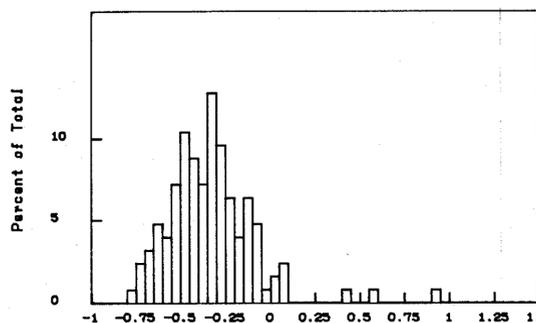
Variable: LAG Total observations: 125
 Minimum: -0.500 Mean: -0.02
 Maximum: 4.500 Std. Deviation: 0.15



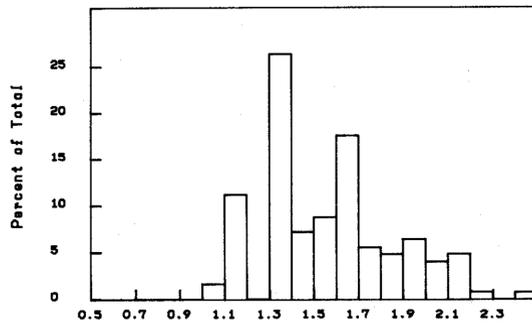
Variable: LWD Total observations: 125
 Minimum: 0.000 Mean: 1.13
 Maximum: 5.000 Std. Deviation: 0.30



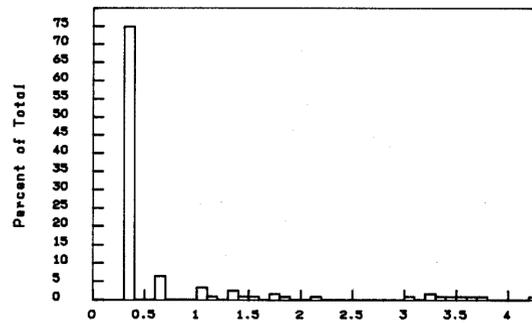
Variable: LFE Total observations: 125
 Minimum: -1.000 Mean: -0.33
 Maximum: 1.500 Std. Deviation: 0.24



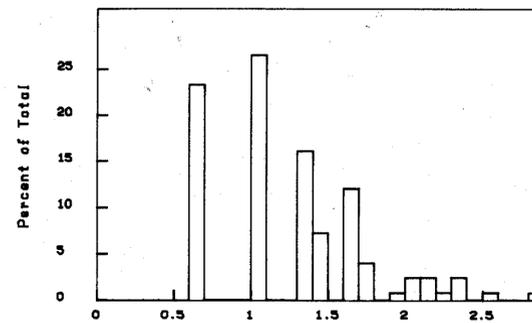
Variable: LMN Total observations: 125
 Minimum: 0.500 Mean: 1.58
 Maximum: 5.500 Std. Deviation: 0.30



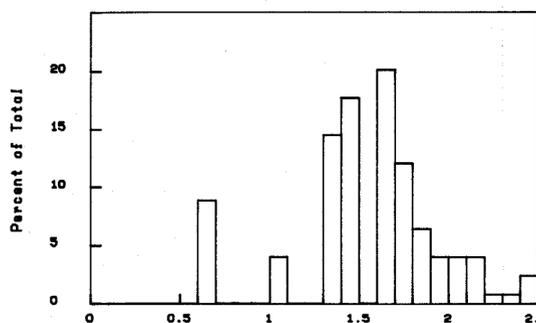
Variable: LSN Total observations: 124
 Minimum: 0.000 Mean: 0.76
 Maximum: 5.000 Std. Deviation: 0.85



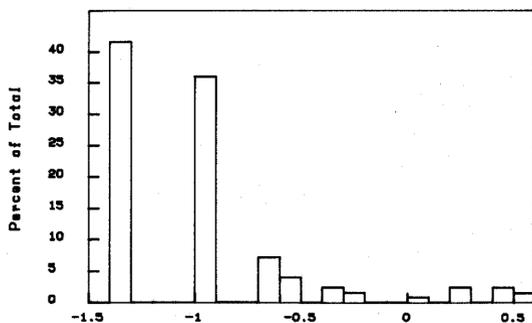
Variable: LW Total observations: 124
 Minimum: 0.000 Mean: 1.25
 Maximum: 5.000 Std. Deviation: 0.48



Variable: LBA Total observations: 124
 Minimum: 0.000 Mean: 1.56
 Maximum: 5.000 Std. Deviation: 0.40



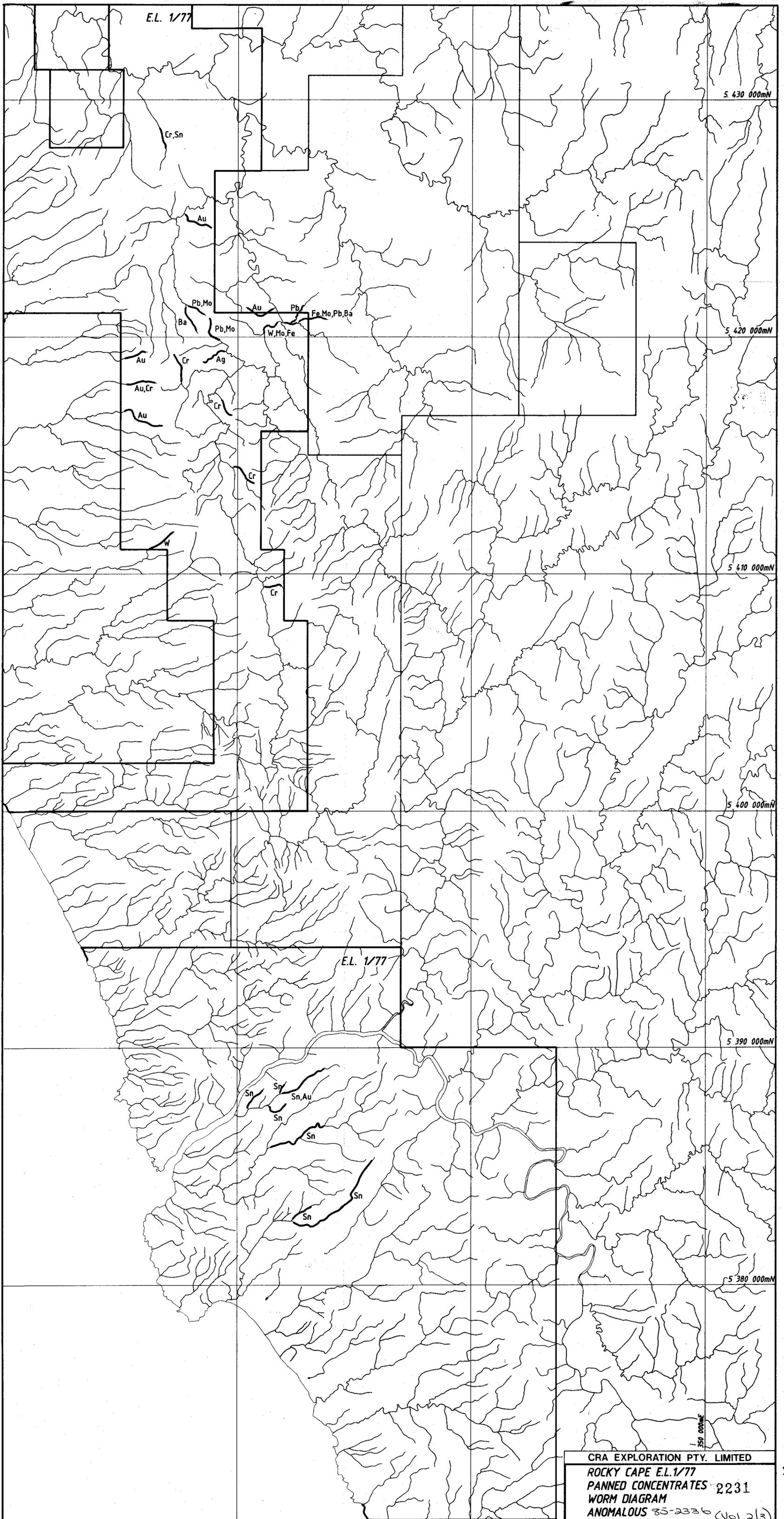
Variable: LAU Total observations: 125
 Minimum: -1.500 Mean: -0.96
 Maximum: 3.500 Std. Deviation: 0.46



229280

5 cm

CRA EXPLORATION PTY. LIMITED	
ROCKY CAPE E.L.1/77 PANED CONCENTRATES LOG ELEMENT HISTOGRAMS	
2230	
REF.	SK55-5
SCALE	AS SHOWN
AUTHOR	J.W.
DATE	7-2-1985
DRAWN	J.W.
REPORT No.	1374
PLAN No.	TASH 2498



CRA EXPLORATION PTY. LIMITED
 ROCKY CAPE E.L.1/77
 PANNED CONCENTRATES 2231
 WORM DIAGRAM
 ANOMALOUS 85-2336 (Vol 2/3)

Ref.	SK55 -3	Drawn	R.T. M.D.
Scale	1:100 000	Report No.	13114
Author.	J.W.	Date	15-2-1985
		Plan No.	TASh 2515

229281

E.L. 1/77

5 430 000mN

5 420 000mN

5 410 000mN

5 400 000mN

5 390 000mN

5 380 000mN

E.L. 1/77

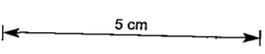
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330 000mE

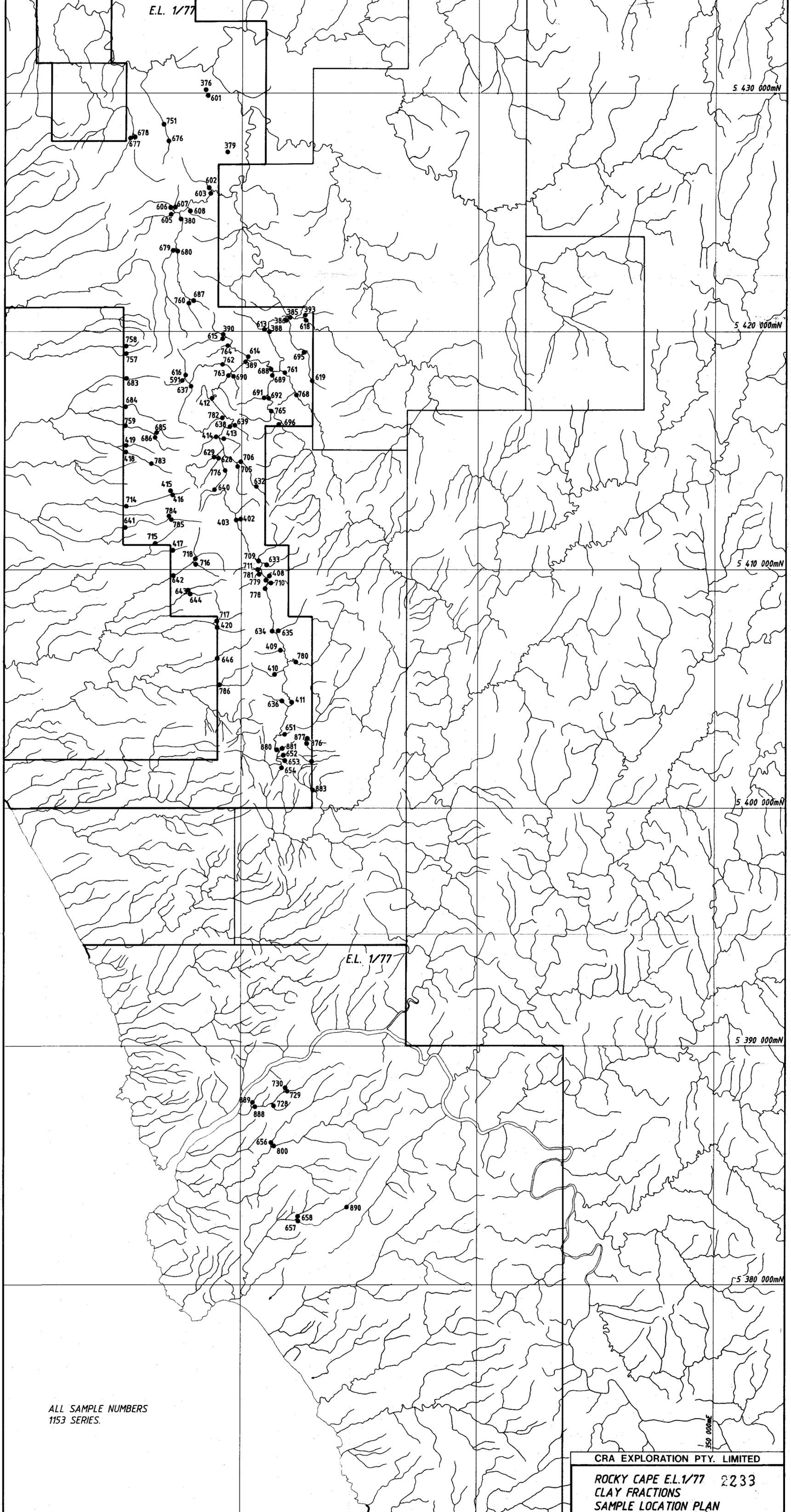
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CRA EXPLORATION PTY. LIMITED
 ROCKY CAPE E.L.1/77 2232
 PANNED CONCENTRATES 85-2336
 WORM DIAGRAM (Vol 2/3)
 POSSIBLY ANOMALOUS

Ref.	SK55 -3	Drawn	R.T. M.D.
Scale	1:100 000	Author.	J.W.
Author.	J.W.	Report No.	13114
Date.	15-2-1985	Plan No.	TASh 2516



229282

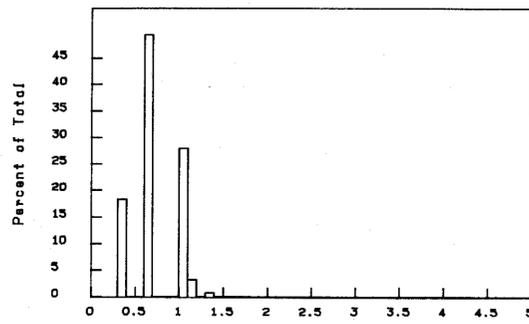


ALL SAMPLE NUMBERS
1153 SERIES.

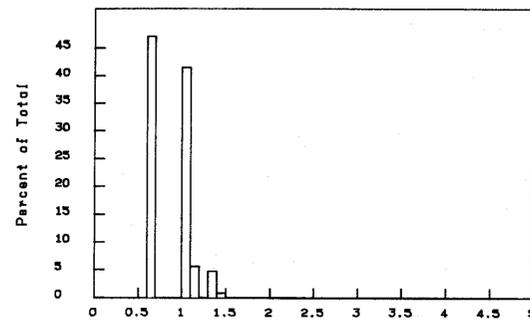
CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE E.L.1/77 2233			
CLAY FRACTIONS			
SAMPLE LOCATION PLAN			
85-2330 (161 213)			
Ref.	SK55-3	Drawn	R.T. M.D.
Scale	1:100 000	Report No.	13114
Author.	J.W.	Plan No.	TASH 2510
Date.	13-2-1985		

229283

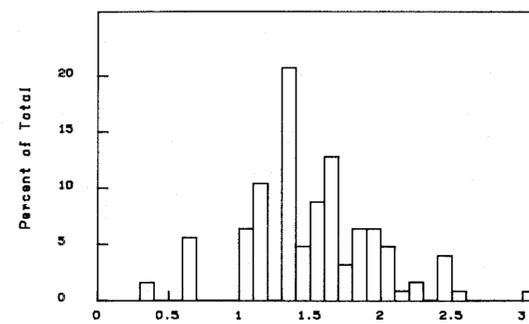
Variable: LCU Total observations: 125
 Minimum: 0.000 Mean: 0.73
 Maximum: 5.000 Std. Deviation: 0.25



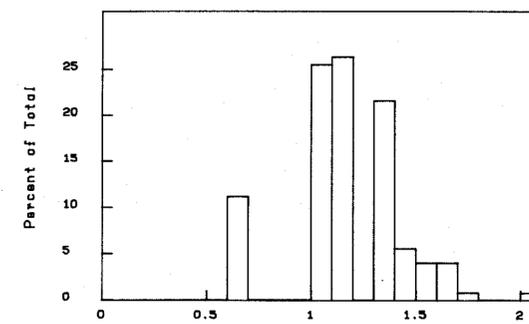
Variable: LPB Total observations: 125
 Minimum: 0.000 Mean: 0.89
 Maximum: 5.000 Std. Deviation: 0.19



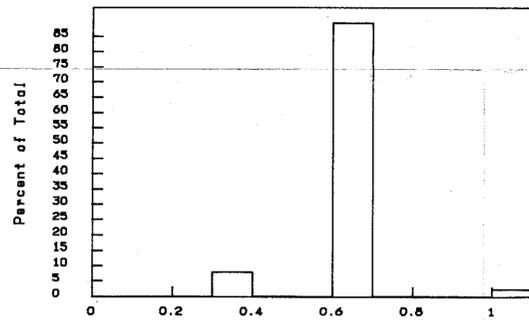
Variable: LZN Total observations: 125
 Minimum: 0.000 Mean: 1.51
 Maximum: 5.000 Std. Deviation: 0.46



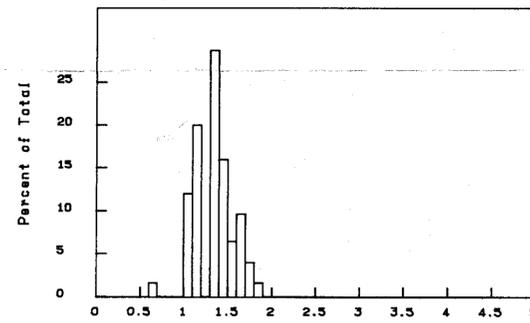
Variable: LNI Total observations: 125
 Minimum: 0.000 Mean: 1.17
 Maximum: 5.000 Std. Deviation: 0.26



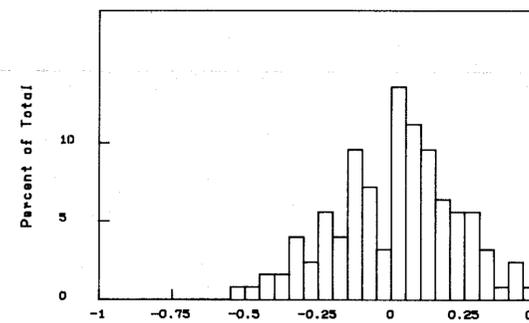
Variable: LCO Total observations: 125
 Minimum: 0.000 Mean: 0.67
 Maximum: 5.000 Std. Deviation: 0.12



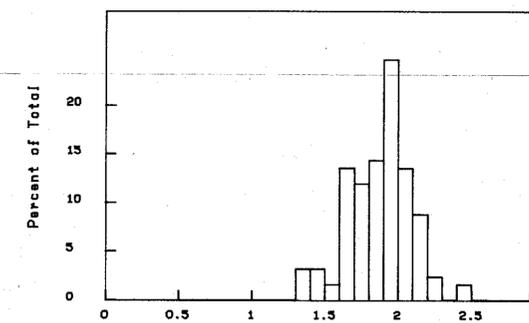
Variable: LMO Total observations: 125
 Minimum: 0.000 Mean: 1.34
 Maximum: 5.000 Std. Deviation: 0.23



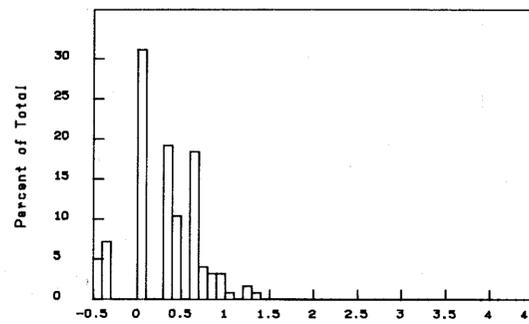
Variable: LFE Total observations: 125
 Minimum: -1.000 Mean: 0.01
 Maximum: 1.500 Std. Deviation: 0.20



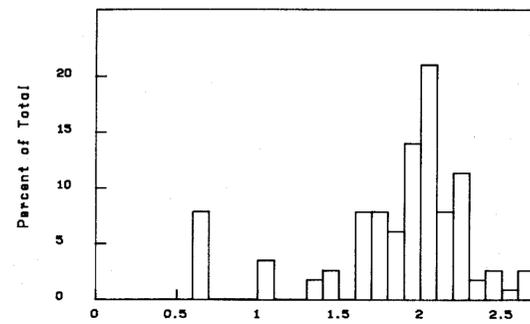
Variable: LMN Total observations: 125
 Minimum: 0.000 Mean: 1.86
 Maximum: 5.000 Std. Deviation: 0.22



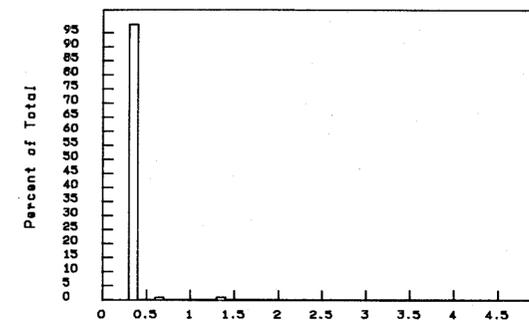
Variable: LAS Total observations: 125
 Minimum: -0.500 Mean: 0.33
 Maximum: 4.500 Std. Deviation: 0.37



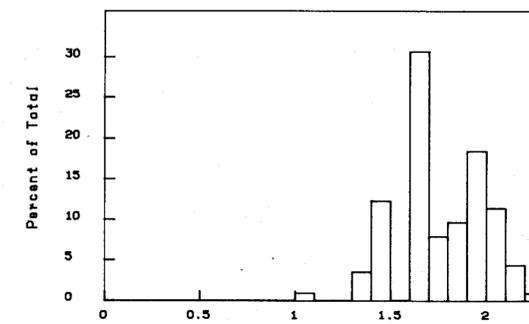
Variable: LBA Total observations: 114
 Minimum: 0.000 Mean: 1.86
 Maximum: 5.000 Std. Deviation: 0.46



Variable: LSN Total observations: 114
 Minimum: 0.000 Mean: 0.41
 Maximum: 5.000 Std. Deviation: 0.09



Variable: LW Total observations: 114
 Minimum: 0.000 Mean: 1.77
 Maximum: 5.000 Std. Deviation: 0.22



229284



CRA EXPLORATION PTY. LIMITED	
ROCKY CAPE E.L.1/77 2234	
CLAY FRACTIONS	
LOG ELEMENT HISTOGRAMS	
85-3336 (Vol. 2/3)	
REF. SK55-5	
SCALE AS SHOWN	DRAWN J.W.
AUTHOR J.W.	REPORT No. 1314
DATE 7-2-1985	PLAN No. TASH 2499

E.L. 1/77

5 430 000mN

5 420 000mN

5 410 000mN

5 400 000mN

5 390 000mN

5 380 000mN

E.L. 1/77

350 000mE

340 000mE

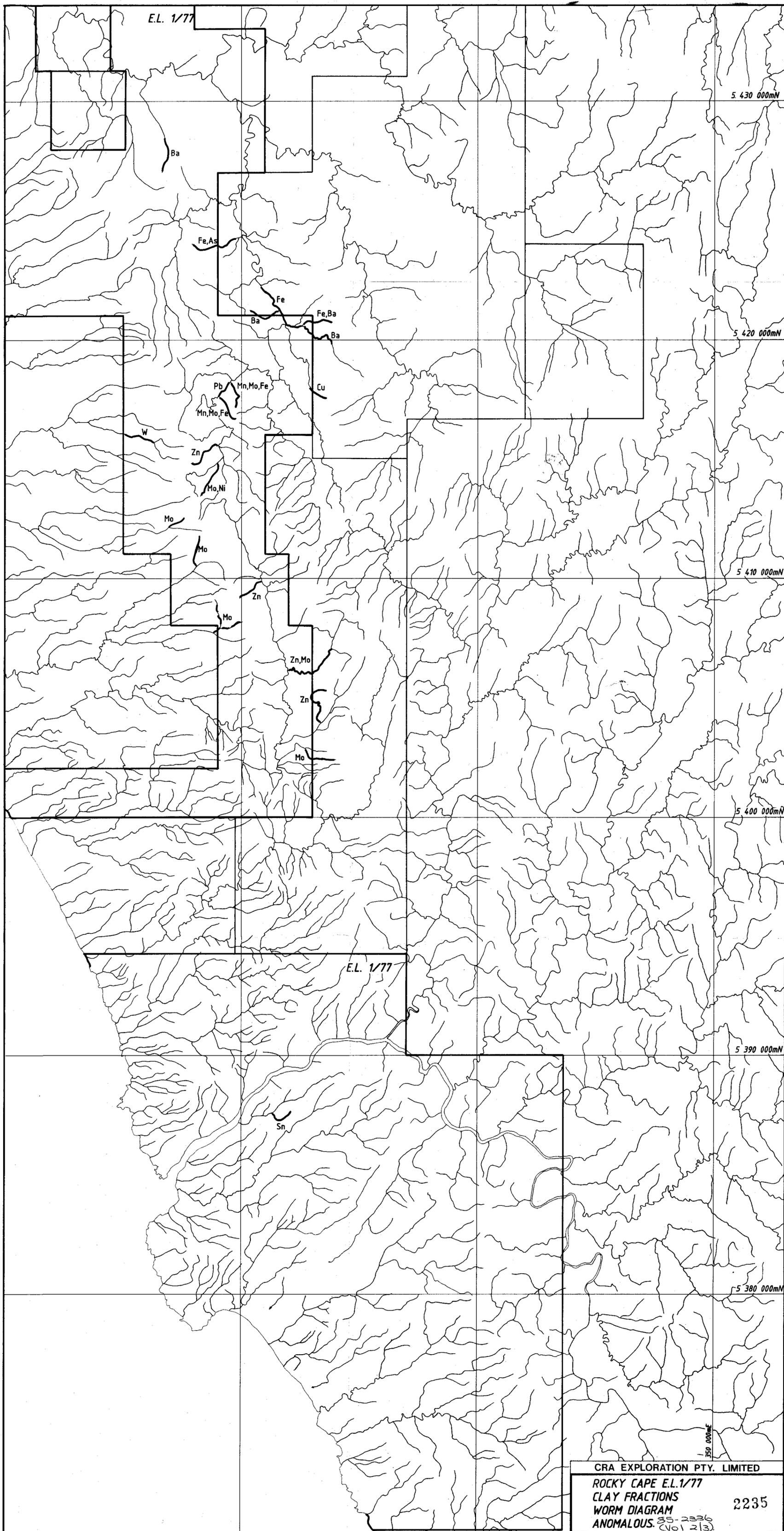
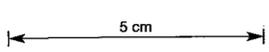
330 000mE

CRA EXPLORATION PTY. LIMITED
 ROCKY CAPE E.L.1/77
 CLAY FRACTIONS
 WORM DIAGRAM
 ANOMALOUS. (Vol 2/3)

2235

Ref.	SK55 -3	Drawn	R.T. M.D.
Scale	1:100 000	Report No.	13114
Author	J.W.	Plan No.	TASH 2517
Date	15-2-1985		

229285



E.L. 1/77

5 430 000mN

5 420 000mN

5 410 000mN

5 400 000mN

5 390 000mN

5 380 000mN

E.L. 1/77

CRA EXPLORATION PTY. LIMITED
 ROCKY CAPE E.L.1/77 2236
 CLAY FRACTIONS 85-2236
 WORM DIAGRAM (Vol 2/3)
 POSSIBLY ANOMALOUS

Ref.	SK55 -3	Drawn	R.T.	M.D.
Scale	1:100 000	Report No.	13114	
Author	J.W.	Date	15-2-1985	
		Plan No.	TASH 2518	

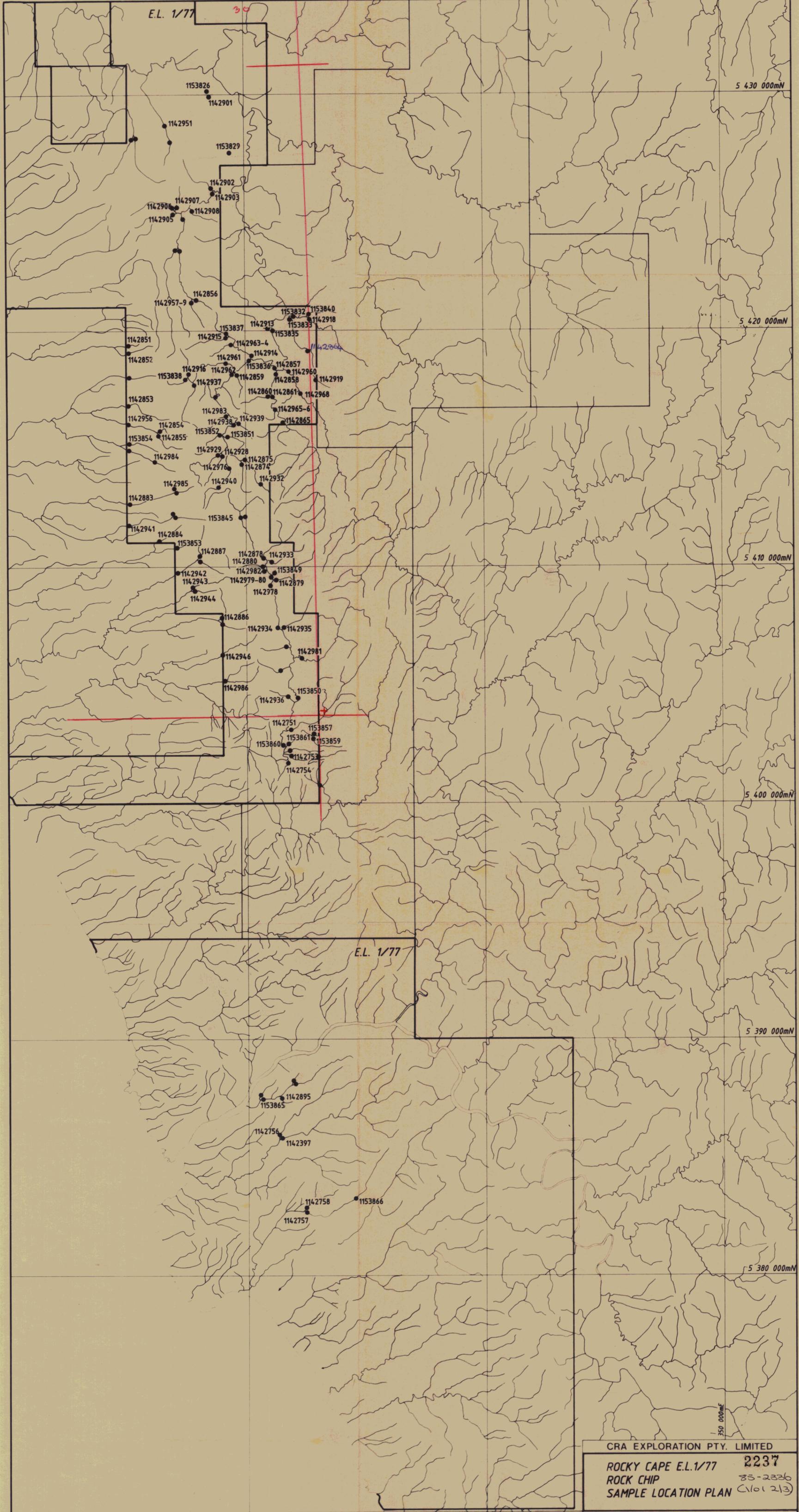
5 cm

330 000mE

340 000mE

350 000mE

229286

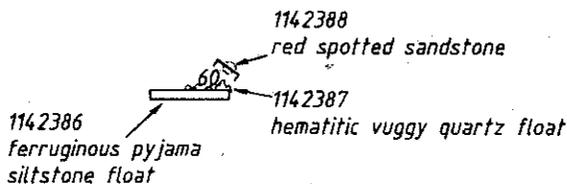
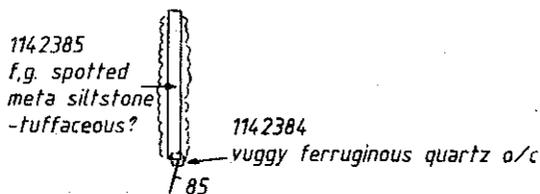
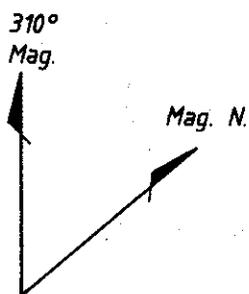
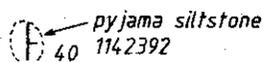
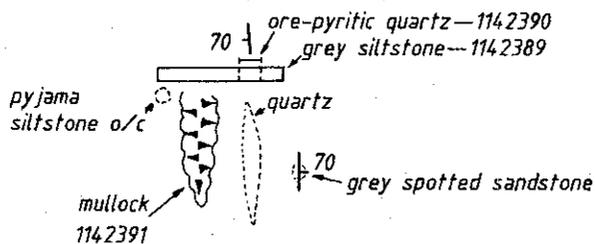


CRA EXPLORATION PTY. LIMITED
ROCKY CAPE E.L.1/77 2237
ROCK CHIP 85-2326
SAMPLE LOCATION PLAN (101 213)

Ref	SK55 -3	Drawn	R.T. M.D.
Scale	1:100 000	Report No.	13114
Author	J.W.	Plan No.	TASh 2511
Date	13-2-1985		

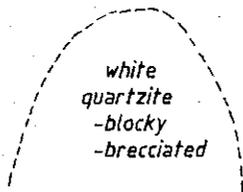
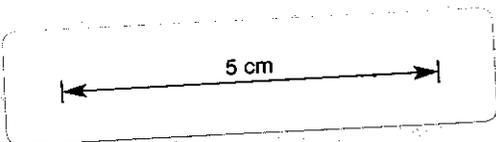
229287

27A



Sample No.	Cu	As	Ag	Au
1142384	380	30	1	<0.01
385	900	20	<1	0.01
386	120	18	1	0.01
387	520	44	<1	0.01
388	65	8	1	<0.01
389	740	12	1	<0.01
390	1200	26	<1	<0.01
391	3.98%	46	5	0.45*
392	4100	14	1	<0.01

229288

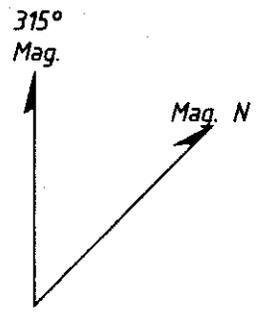
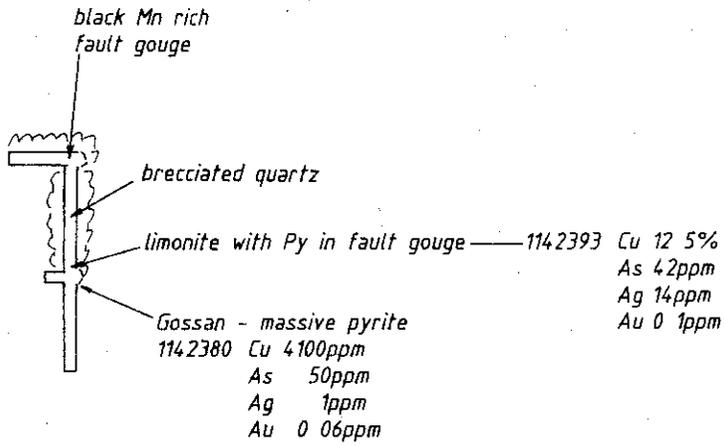


CRA EXPLORATION PTY. LIMITED

ROCKY CAPE E.L. 1/77
SKETCH MAP
DOHERTY'S PIMPLE WORKINGS
85-2036 (Vol 2/3)

REF.	SK55 - 3		
SCALE	1 : 1000 (approx)	DRAWN	R.T.
AUTHOR	J.W.	REPORT No.	13114
DATE	21 - 2 - 1985	PLAN No.	TASh 2530

2715



sheared pyjama siltstone sl. chloritic
1142394 Cu 3050ppm
As 14ppm
Ag 1ppm
Au 0.01ppm

229289

CRA EXPLORATION PTY. LIMITED

ROCKY CAPE E.L. 1/77
SKETCH MAP MINE WORKINGS
N.W. OF MT. HOLLOWAY

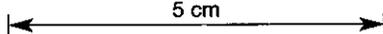
85-2326 (Vol 2/3)

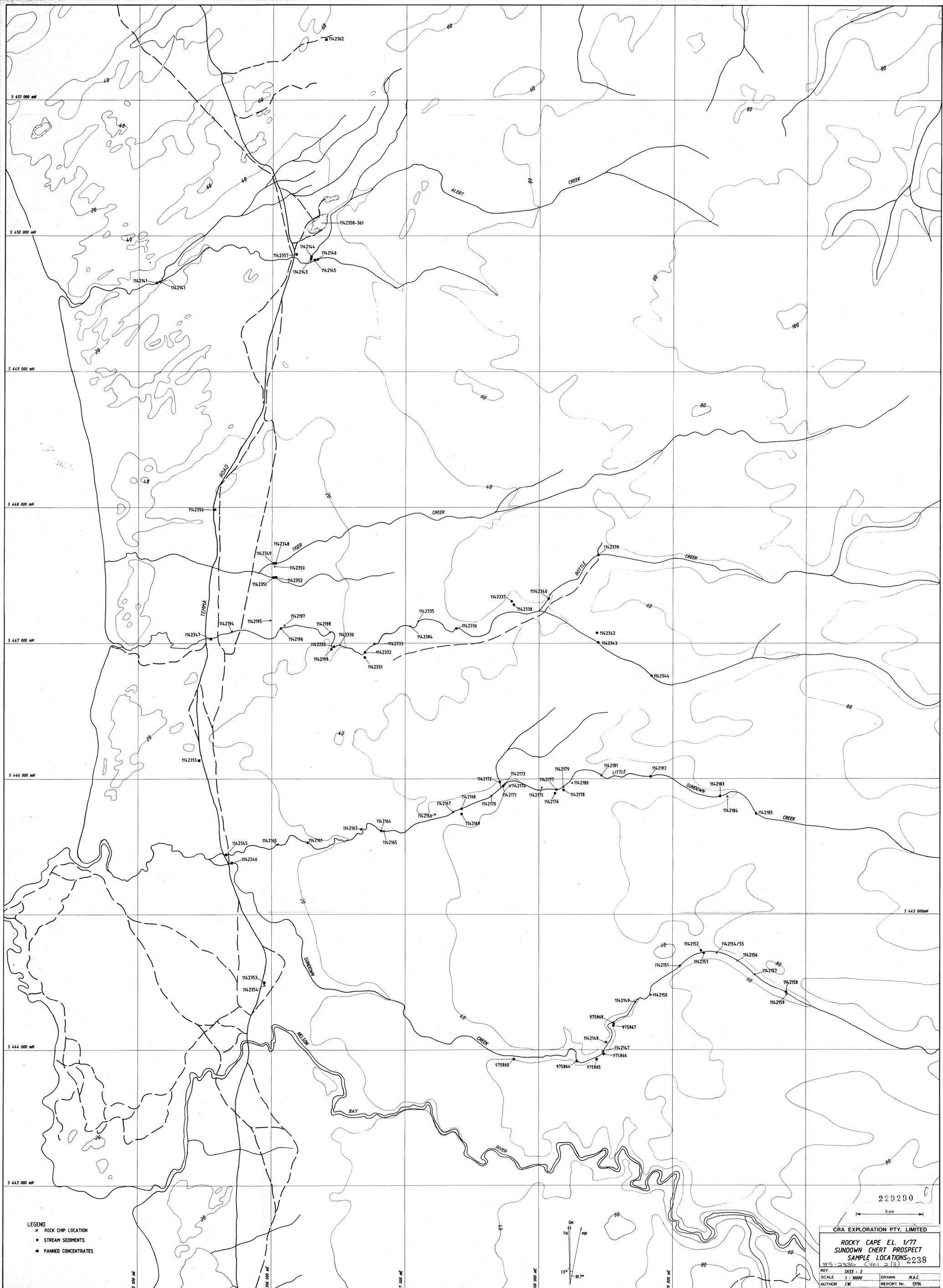
REF.	SK55 - 3		
SCALE	1 : 1000 (approx)	DRAWN	R.T.
AUTHOR	J.W.	REPORT No.	13114
DATE	20 - 2 - 1985	PLAN No.	TASH 2531

80°

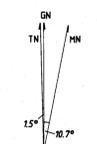
Workings
± 150 m

5 cm





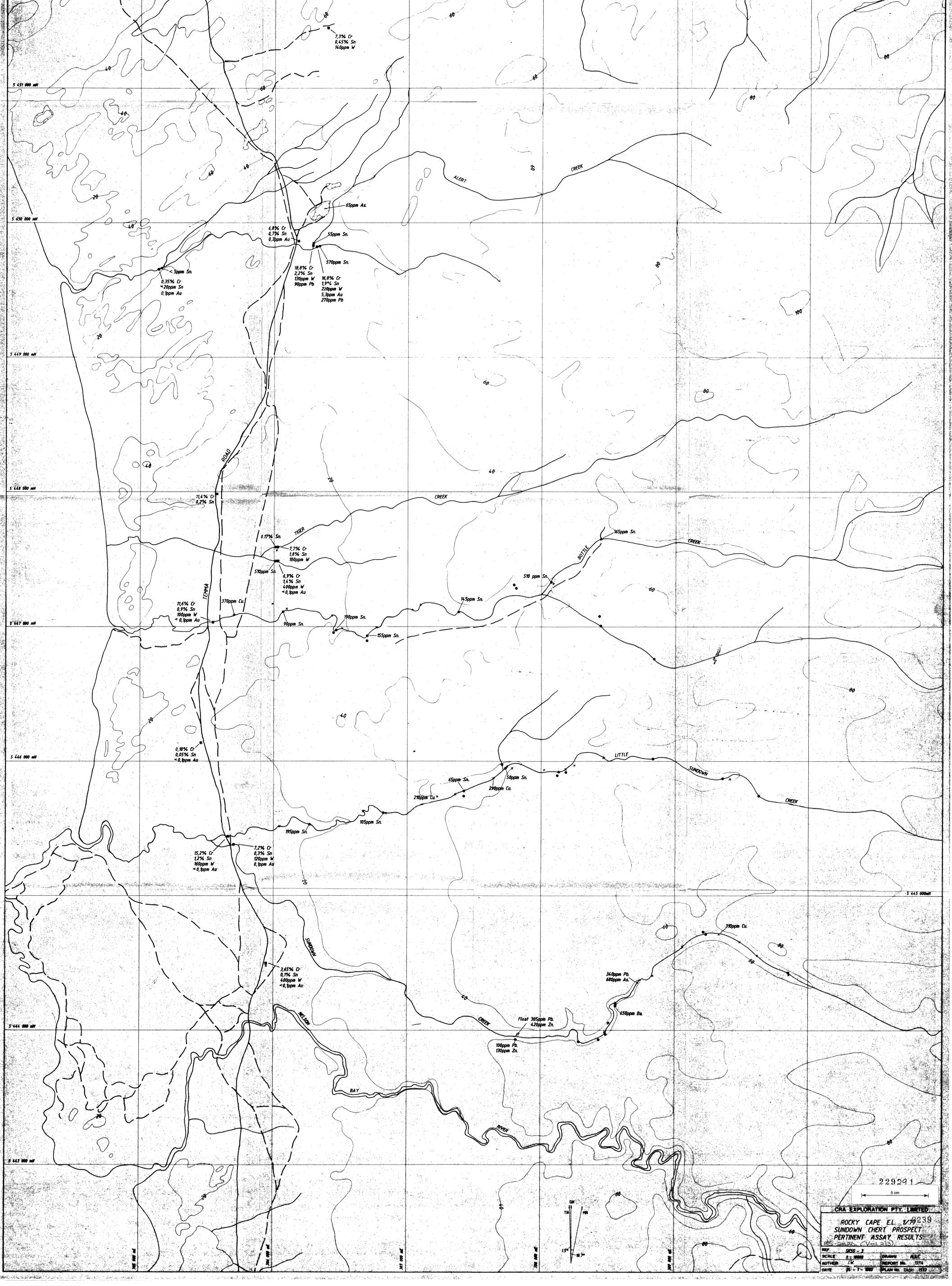
LEGEND
 x ROCK CHIP LOCATION
 o STREAM SEDIMENTS
 ■ PANNED CONCENTRATES



229290
 5 cm

CRA EXPLORATION PTY. LIMITED
 ROCKY CAPE EL. 1/77
 SUNDOWN CHERT PROSPECT
 SAMPLE LOCATIONS 238
 85-2335 (Vol 2) 238
 REF. 9655-2
 SCALE 1:5000
 AUTHOR J.W.
 DATE 24 - 1 - 1983

DRAWN M.A.C.	REPORT No. 1374
PLAN No. TASH 1591	



5 451 000 mW
 5 450 000 mW
 5 449 000 mW
 5 448 000 mW
 5 447 000 mW
 5 446 000 mW
 5 445 000 mW
 5 444 000 mW
 5 443 000 mW

229291

5 cm

CRA EXPLORATION PTY. LIMITED

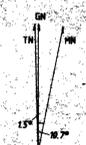
ROCKY CAPE EL. 1/79 239

SUNDOWN CHERT PROSPECT

PERTINENT ASSAY RESULTS

PREP. SHEET - 2
 SCALE 1:10000
 AUTHOR J.V.
 DATE 28-1-80

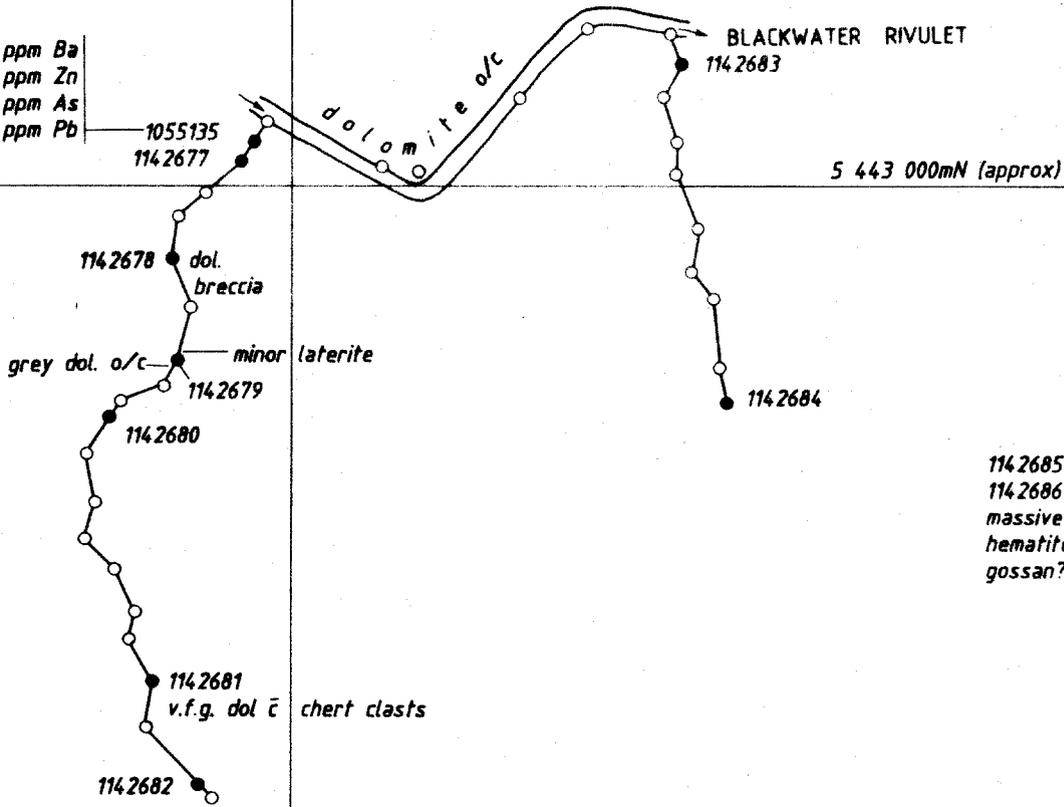
DRYING	REMARKS
REPORT NO. 2574	
PLAN NO. 2432	



276

324 000mE (approx)

1700 ppm Ba
210 ppm Zn
23 ppm As
25 ppm Pb



229292

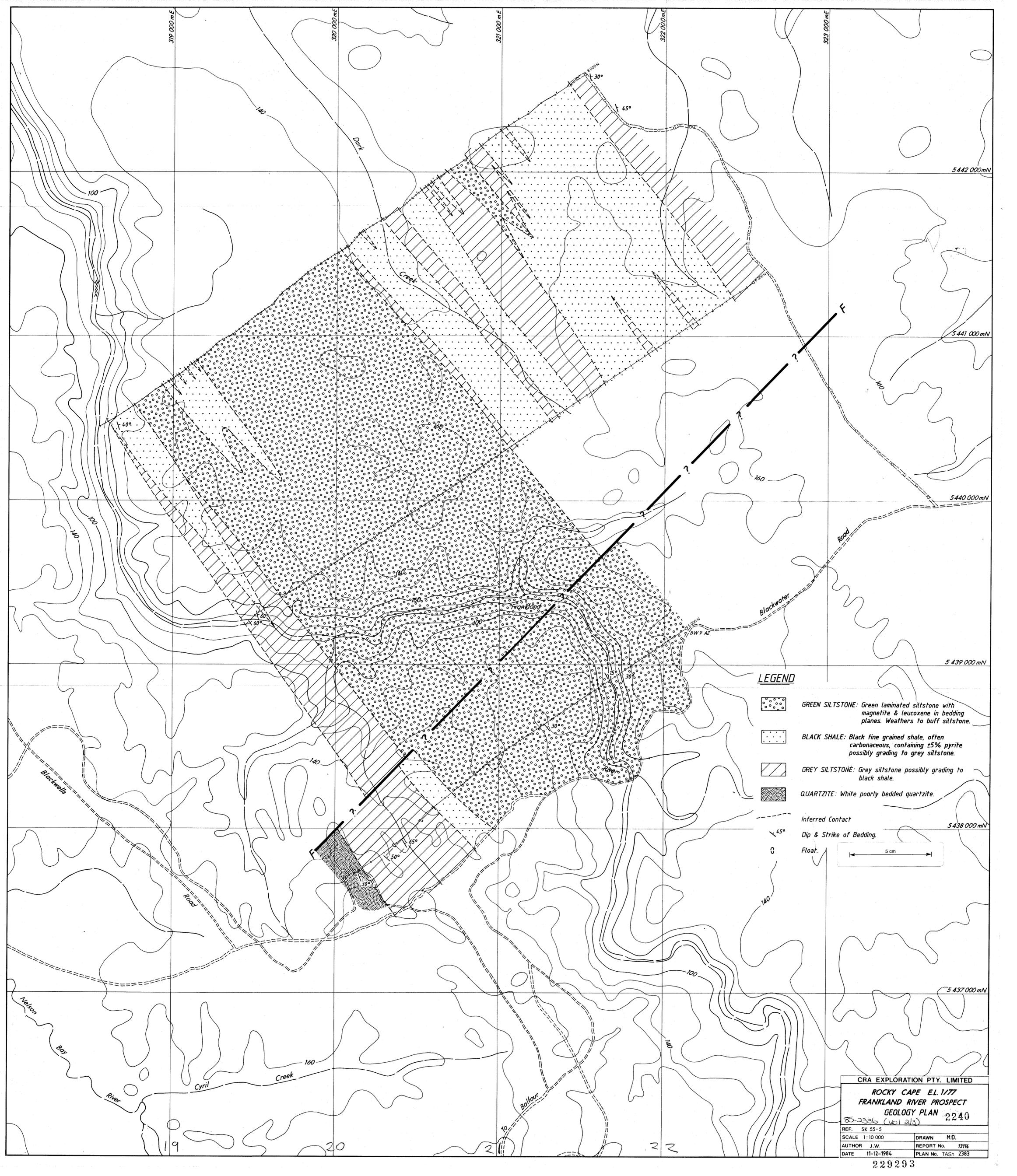


CRA EXPLORATION PTY. LIMITED

ROCKY CAPE E.L. 1/77
SKETCH MAP
BLACKWATER RIVULET FOLLOW-UP
SAMPLE LOCATION PLAN

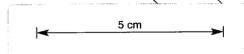
85-2336 (Vol 2/3)

REF.	SK55 - 3	
SCALE	1 : 2000 (approx)	DRAWN R.T.
AUTHOR	J.W.	REPORT No. 13114
DATE	21 - 2 - 1985	PLAN No. TASH 1532

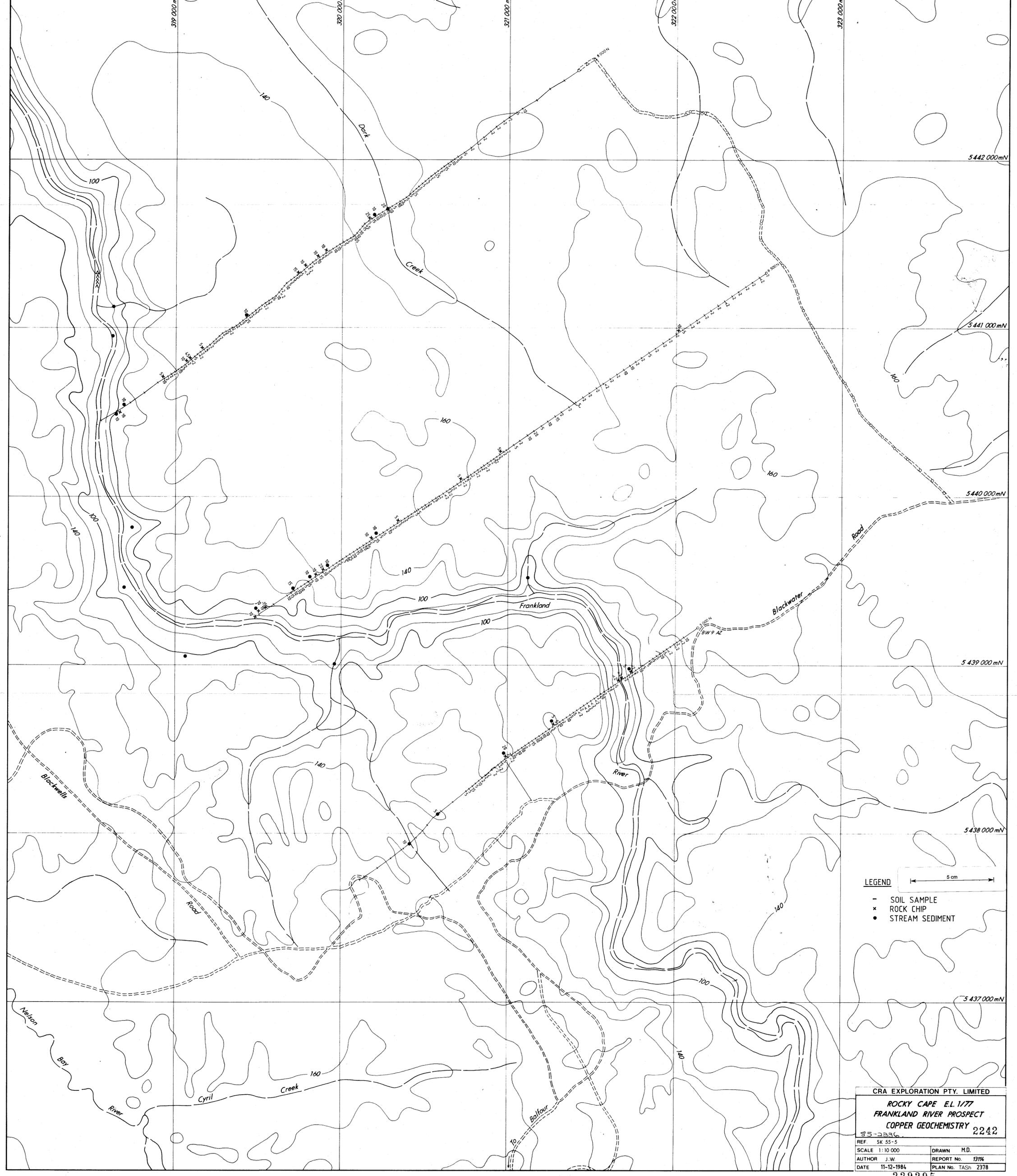


LEGEND

- GREEN SILTSTONE: Green laminated siltstone with magnetite & leucoxene in bedding planes. Weathers to buff siltstone.
- BLACK SHALE: Black fine grained shale, often carbonaceous, containing ±5% pyrite possibly grading to grey siltstone.
- GREY SILTSTONE: Grey siltstone possibly grading to black shale.
- QUARTZITE: White poorly bedded quartzite.
- Inferred Contact
- Dip & Strike of Bedding.
- Fault



CRA EXPLORATION PTY. LIMITED	
ROCKY CAPE E.L. 1/77	
FRANKLAND RIVER PROSPECT	
GEOLOGY PLAN 2240	
85-2336 (vol 2/3)	
REF. SK 55-5	
SCALE 1:10 000	DRAWN M.D.
AUTHOR J.W.	REPORT No. 1314
DATE 11-12-1984	PLAN No. TASH 2383



LEGEND

— SOIL SAMPLE
 x ROCK CHIP
 • STREAM SEDIMENT

5 cm

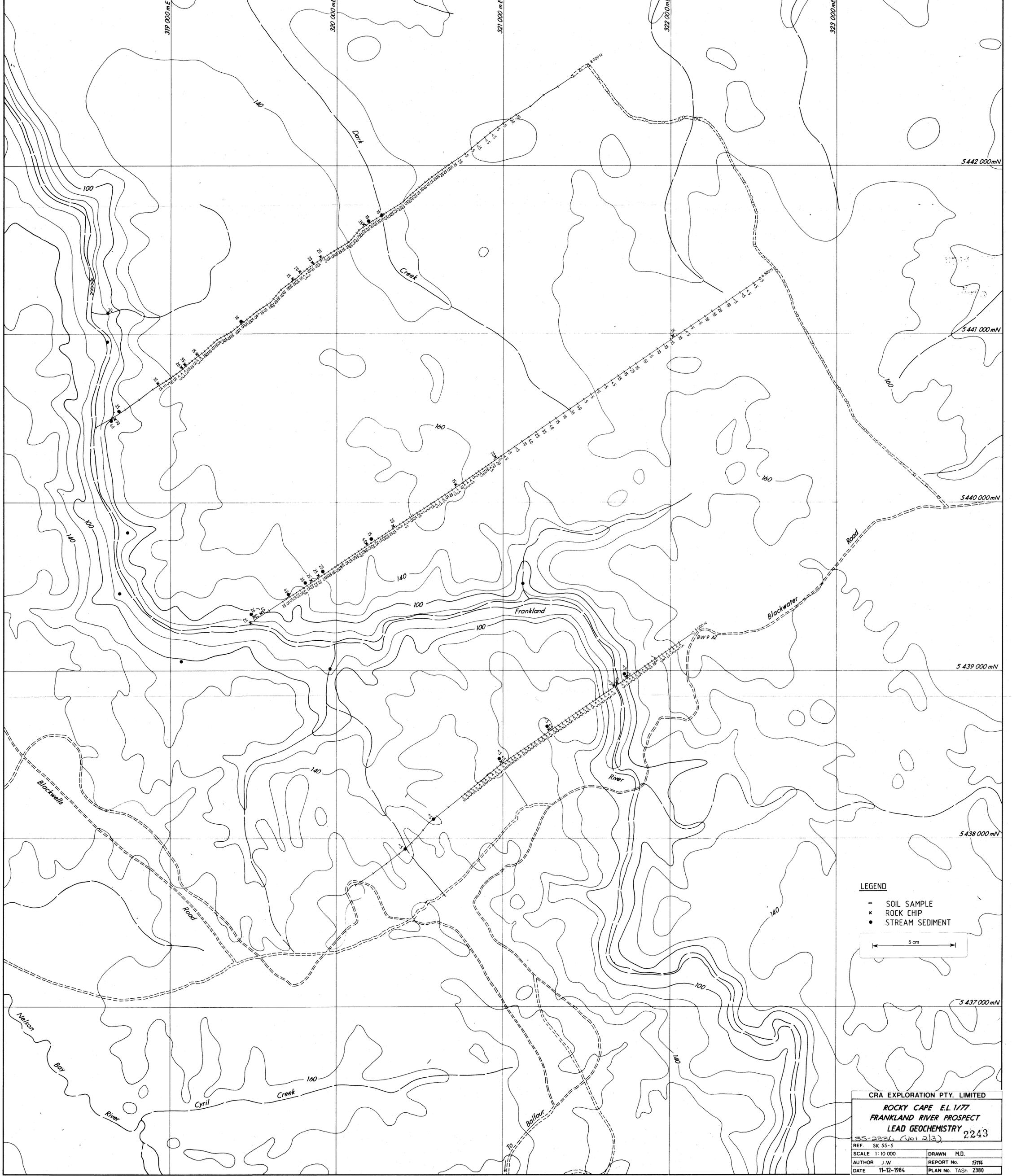
CRA EXPLORATION PTY. LIMITED

ROCKY CAPE E.L. 1/77
FRANKLAND RIVER PROSPECT
COPPER GEOCHEMISTRY 2242

85-2336
 REF. SK 55-5

SCALE 1:10 000	DRAWN M.D.
AUTHOR J.W.	REPORT No. 131K
DATE 11-12-1984	PLAN No. TASH 2378

229295

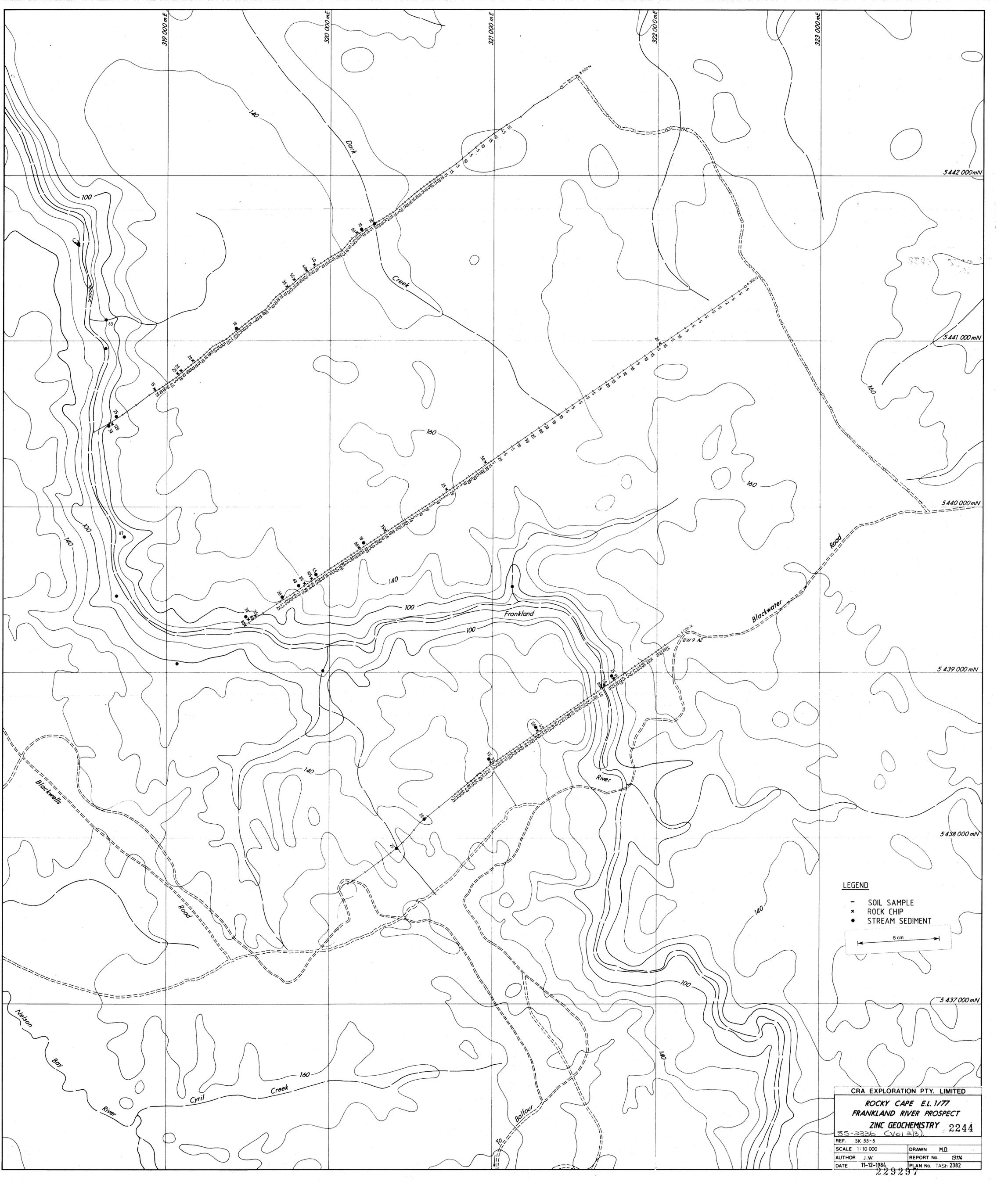


LEGEND

- SOIL SAMPLE
- x ROCK CHIP
- STREAM SEDIMENT

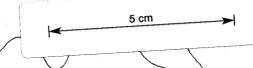
5 cm

CRA EXPLORATION PTY. LIMITED	
ROCKY CAPE E.L. 177	
FRANKLAND RIVER PROSPECT	
LEAD GEOCHEMISTRY 2243	
35-2326 (Vol 2)3	
REF: SK 55-5	
SCALE 1:10 000	DRAWN M.D.
AUTHOR J.W.	REPORT No. 13714
DATE 11-12-1984	PLAN No. TASH 2380



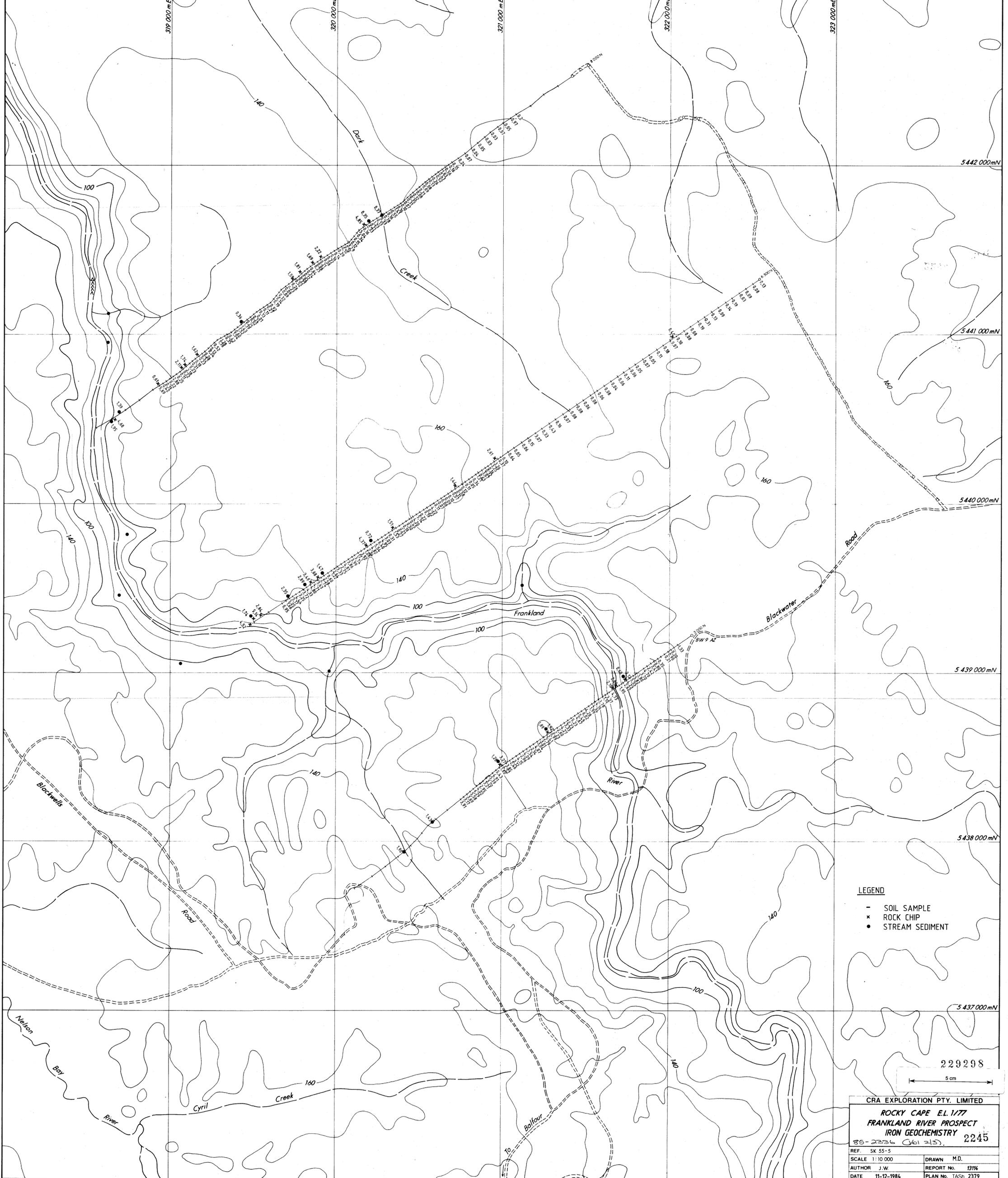
LEGEND

- SOIL SAMPLE
- x ROCK CHIP
- STREAM SEDIMENT

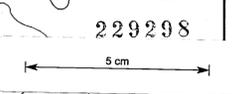


CRA EXPLORATION PTY. LIMITED	
ROCKY CAPE E.L. 1/77	
FRANKLAND RIVER PROSPECT	
ZINC GEOCHEMISTRY 2244	
REF. SK 55-5 (Vol 23)	
SCALE 1:10 000	DRAWN M.D.
AUTHOR J.W.	REPORT No. 1374
DATE 11-12-1984	PLAN No. TASH 2382

229297

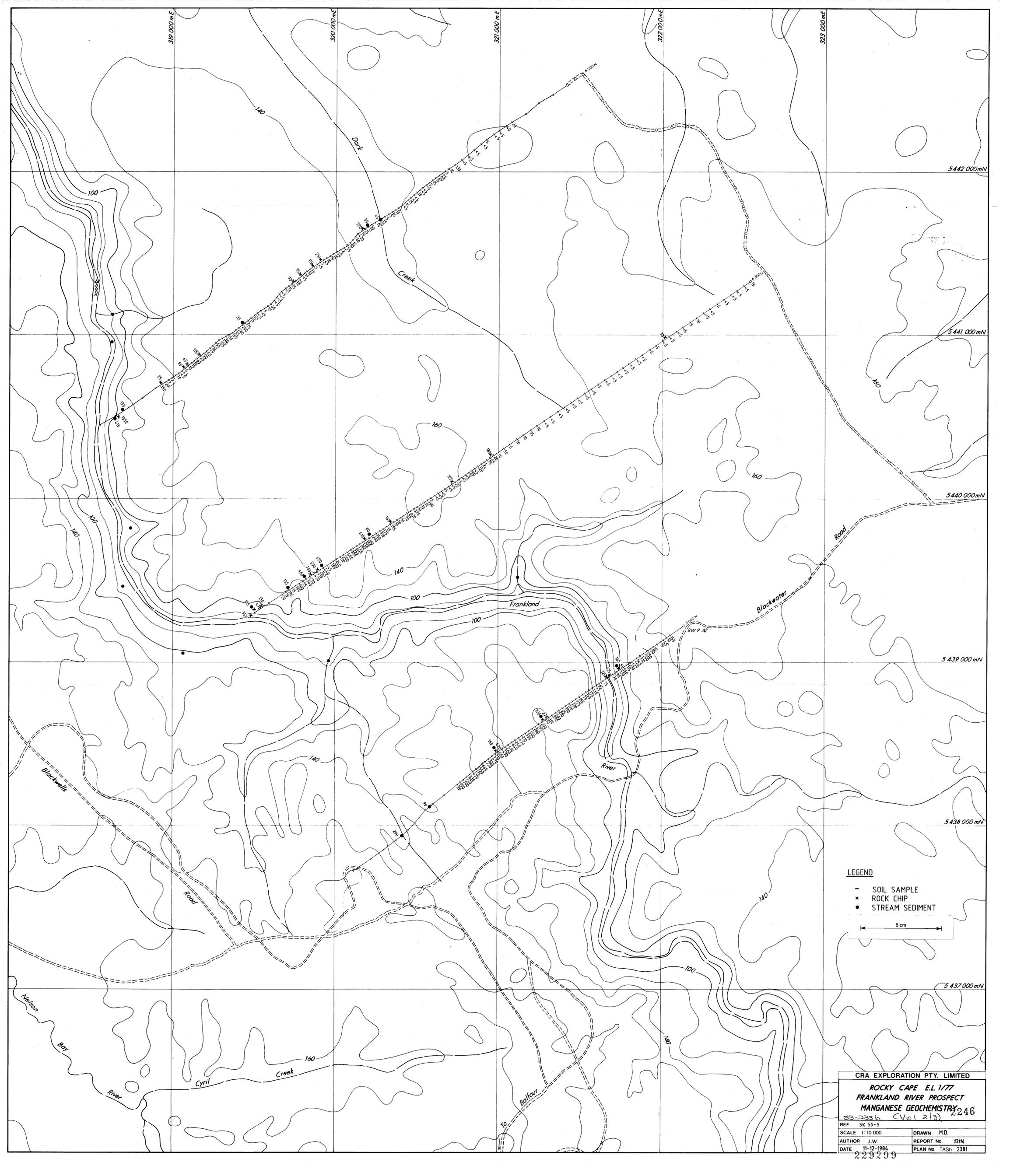


- LEGEND**
- SOIL SAMPLE
 - x ROCK CHIP
 - STREAM SEDIMENT



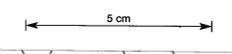
CRA EXPLORATION PTY. LIMITED
ROCKY CAPE E.L. 1/77
FRANKLAND RIVER PROSPECT
IRON GEOCHEMISTRY 2245
 88-2236 (Vol 2/5)

REF. SK 55-5	DRAWN M.D.
SCALE 1:10 000	REPORT No. 1374
AUTHOR J.W.	PLAN No. TASH 2379
DATE 11-12-1984	



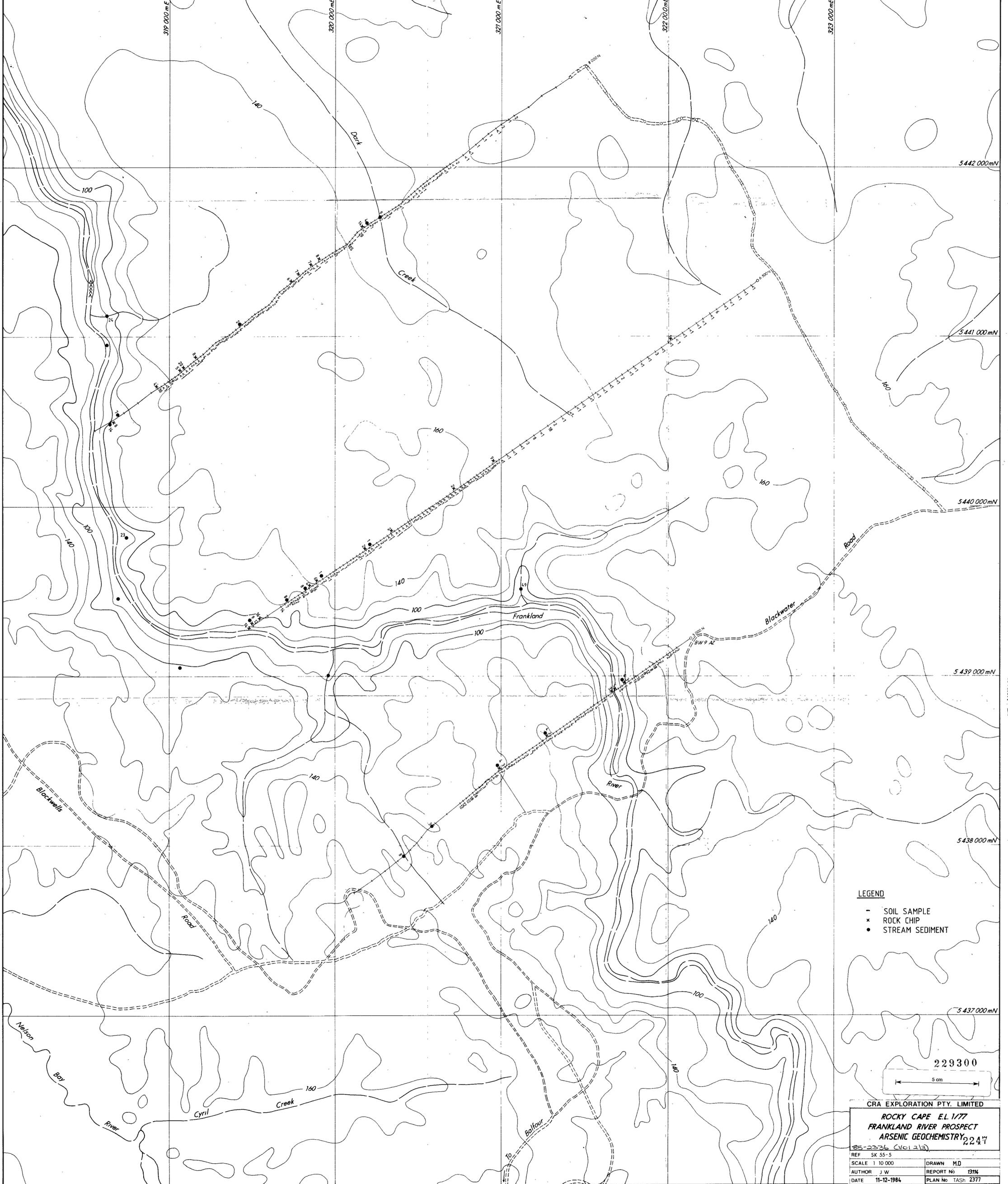
LEGEND

- SOIL SAMPLE
- x ROCK CHIP
- STREAM SEDIMENT

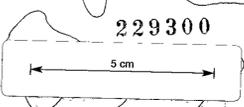


CRA EXPLORATION PTY. LIMITED	
ROCKY CAPE E.L. 1177	
FRANKLAND RIVER PROSPECT	
MANGANESE GEOCHEMISTRY 246	
REF. SK 55-5	SS-2336 (Vol 2/3)
SCALE 1:10 000	DRAWN M.D.
AUTHOR J.W.	REPORT No. 1314
DATE 11-12-1984	PLAN No. TASH 2381

229299

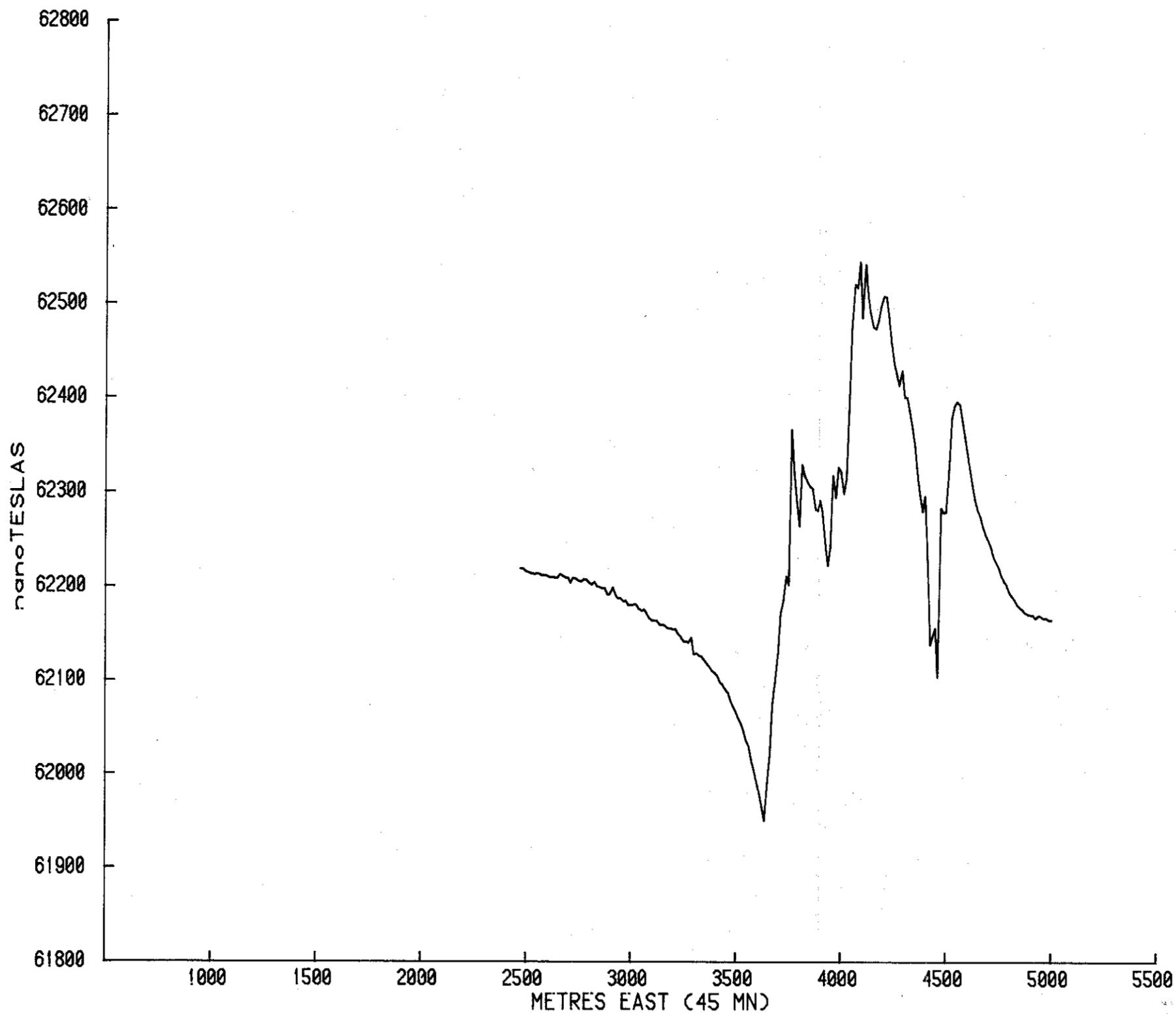


- LEGEND**
- SOIL SAMPLE
 - x ROCK CHIP
 - STREAM SEDIMENT



CRA EXPLORATION PTY. LIMITED
ROCKY CAPE E.L. 1/77
FRANKLAND RIVER PROSPECT
ARSENIC GEOCHEMISTRY 2247
 85-2336 (No. 123)

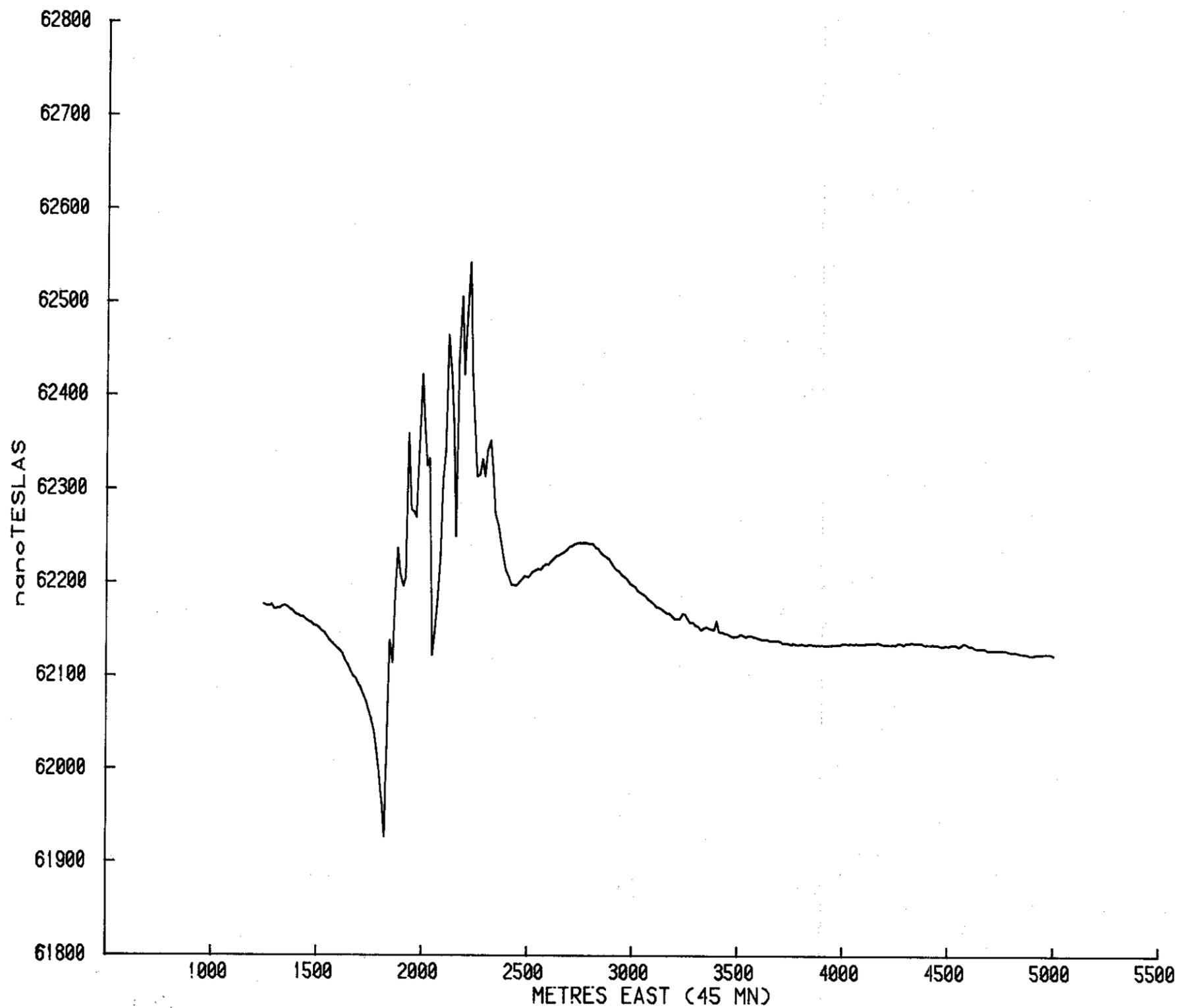
REF SK 55-5	DRAWN M.D.
SCALE 1:10 000	REPORT No. 1314
AUTHOR J.W.	PLAN No. TASH 2377
DATE 11-12-1984	



229301

5 cm

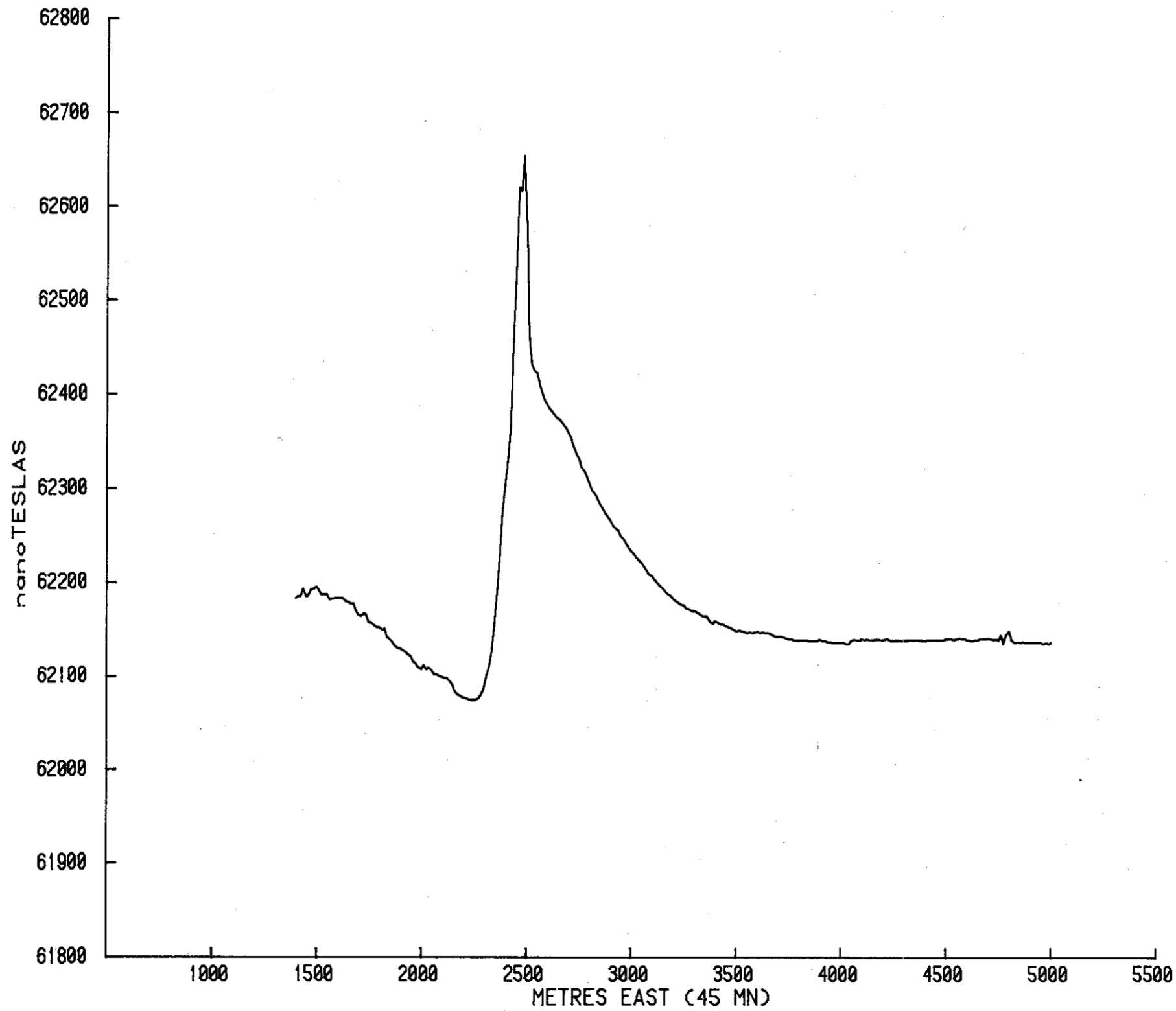
CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE E.L. 1/77			
FRANKLAND RIVER PROSPECT			
GROUND MAGNETIC PROFILE			
LINE 5000 mN			2248
85-2336 (401 213)			
REF.	SK55 - 3		
SCALE	AS SHOWN	DRAWN	M. F.
AUTHOR	J. W.	REPORT No.	13114
DATE	9 - 3 - 1984	PLAN No.	TASH 1660



229302

5 cm

CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE E.L. 1/77 FRANKLAND RIVER PROSPECT GROUND MAGNETIC PROFILE			
LINE 6500 mN		2249	
<i>85-2336 (Vol 2/3)</i>			
REF.	SK55 - 3		
SCALE	AS SHOWN	DRAWN	M. F.
AUTHOR	J. W.	REPORT No.	13114
DATE	9 - 3 - 1984	PLAN No.	TASH 1661

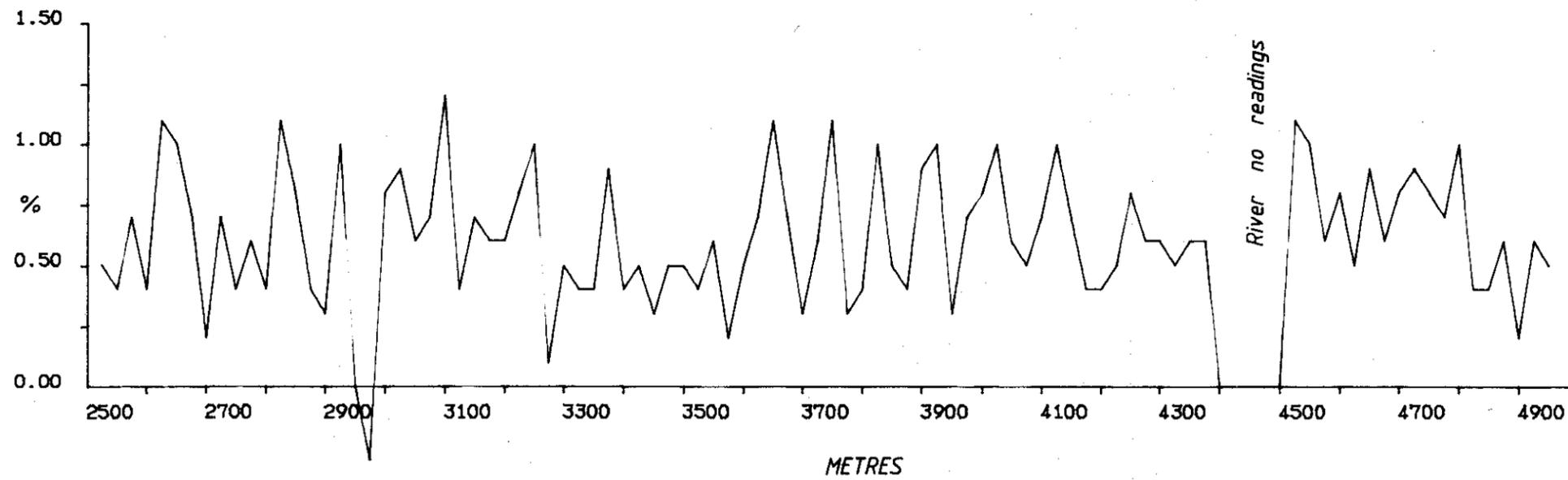
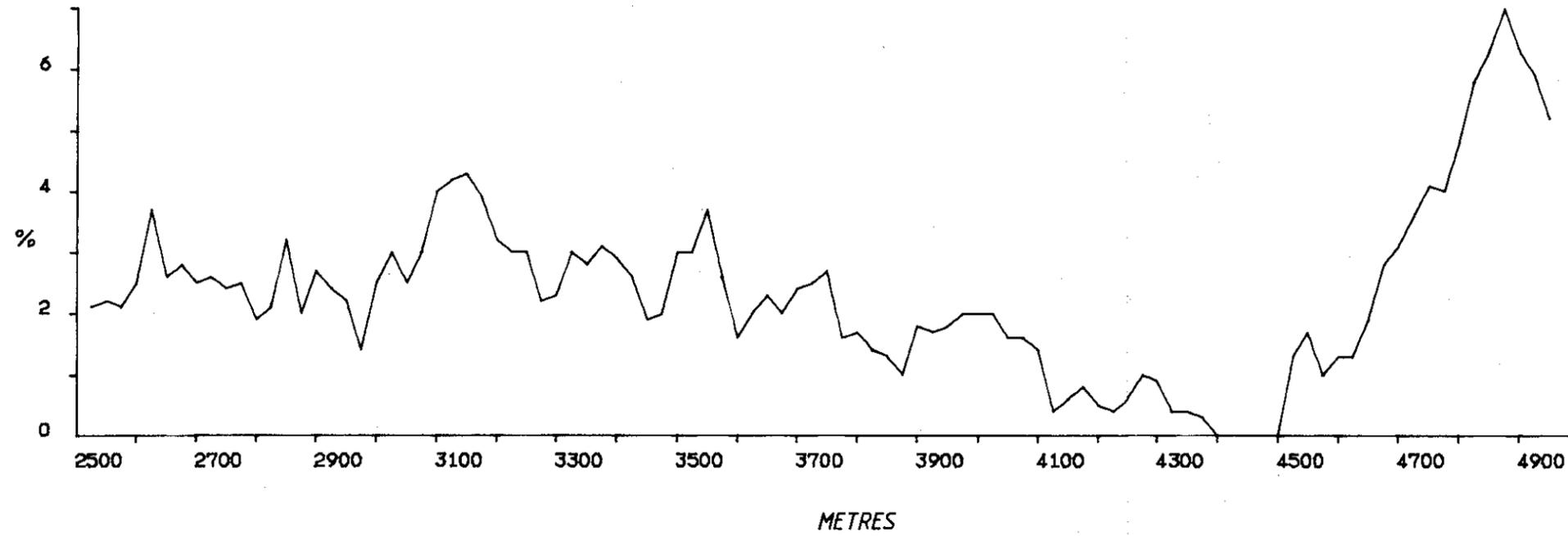


229303

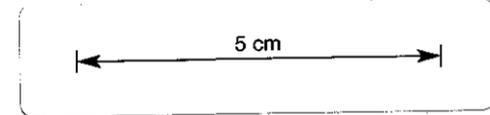
5 cm

CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE E.L. 1/77 FRANKLAND RIVER PROSPECT GROUND MAGNETIC PROFILE			
LINE 8000 mN		2250	
85-2336 (Vol 2/3)			
REF.	SK55 - 3		
SCALE	AS SHOWN	DRAWN	M. F.
AUTHOR	J. W.	REPORT No.	13114
DATE	9 - 3 - 1984	PLAN No.	TASh 1662

FRANKLAND RIVER: LINE 5000N



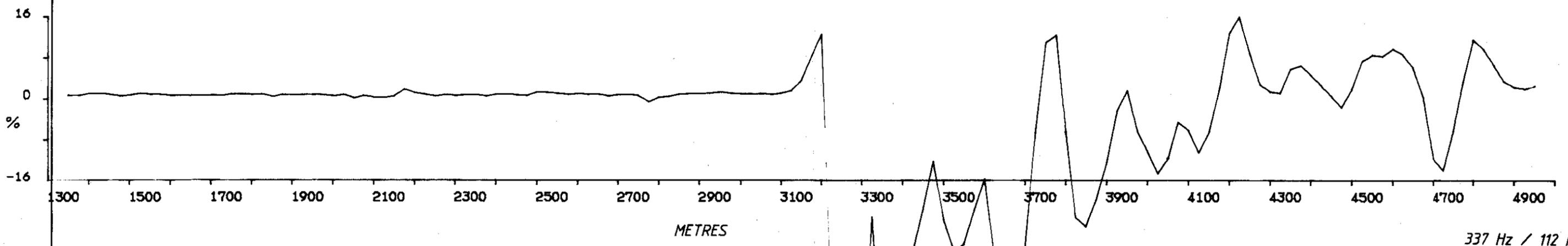
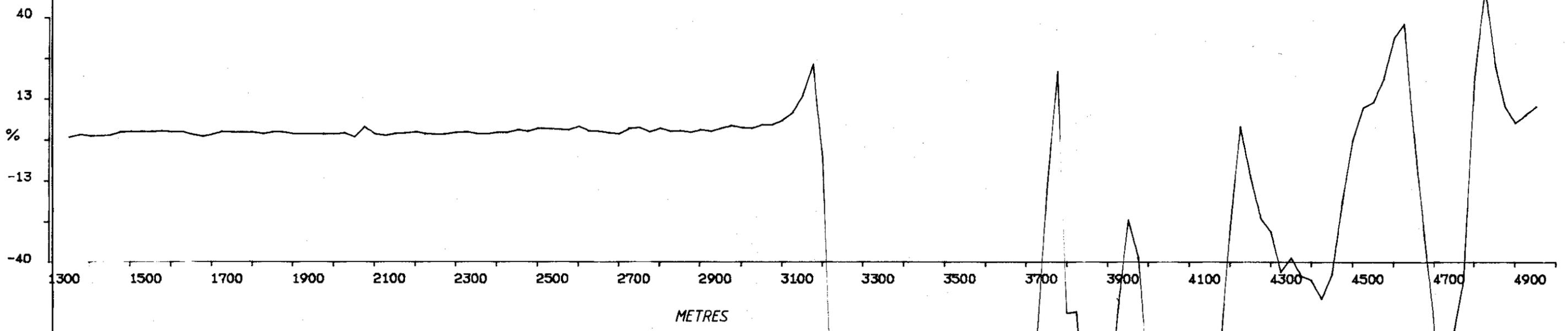
229304



CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE E.L. 1/77			
FRANKLAND RIVER PROSPECT			
LINE 5000 mN			
GENIE PROFILES 2251			
REF.	SK55 - 3		
SCALE	1 : 10 000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	13114
DATE	23 - 11 - 1984	PLAN No.	TASh 2301

3037 Hz / 112 Hz

FRANKLAND RIVER: LINE 6500N



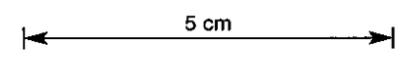
337 Hz / 112 Hz

229305

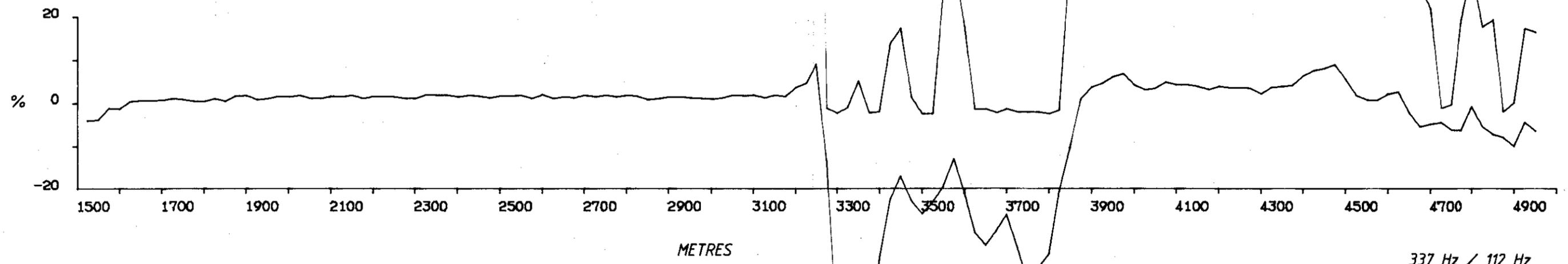
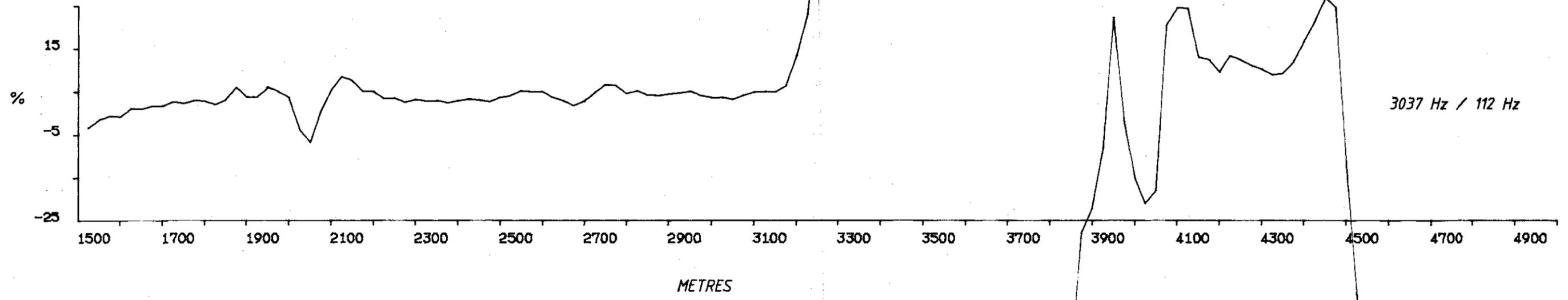
CRA EXPLORATION PTY. LIMITED

ROCKY CAPE E.L. 1/77
 FRANKLAND RIVER PROSPECT
 LINE 6500 mN
 GENIE PROFILES 2252

REF.	SK55 - 3		
SCALE	1 : 10,000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	13114
DATE	23 - 11 - 1984	PLAN No.	TASh 2302



FRANKLAND RIVER: LINE 8000N

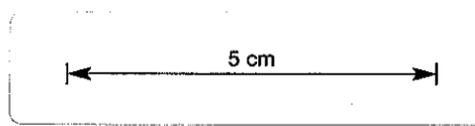


229306

CRA EXPLORATION PTY. LIMITED

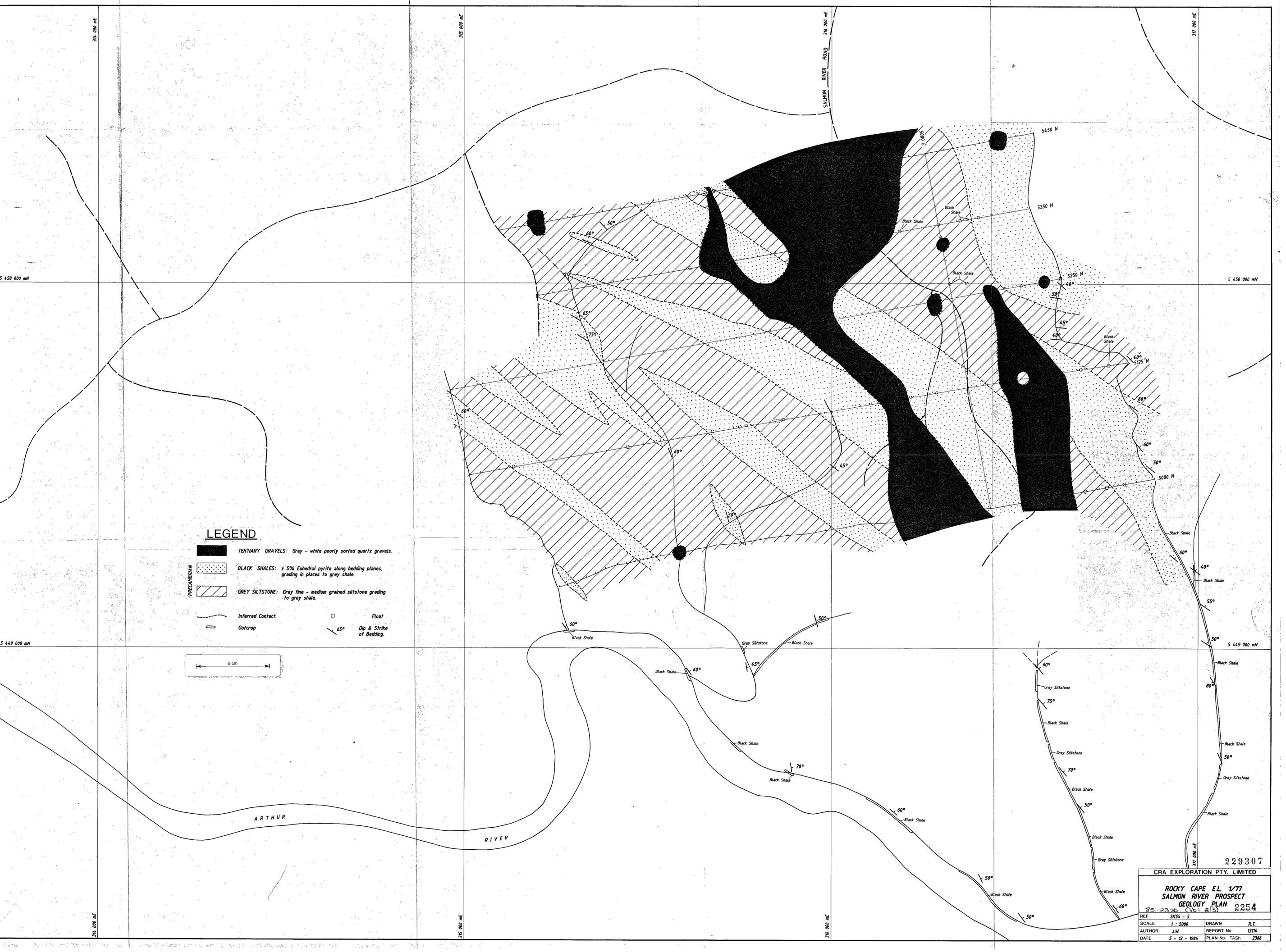
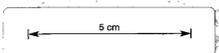
ROCKY CAPE E.L. 1/77
 FRANKLAND RIVER PROSPECT
 LINE 8000 mN
 GENIE PROFILES 2253

REF.	SK55 - 3		
SCALE	1 : 10.000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	13114
DATE	23 - 11 - 1984	PLAN No.	TASh 2303



LEGEND

-  TERTIARY GRAVELS: Grey - white poorly sorted quartz gravels.
-  BLACK SHALES: ± 5% Euhedral pyrite along bedding planes, grading in places to grey shale.
-  PRECAMBRIAN GREY SILTSTONE: Grey fine - medium grained siltstone grading to grey shale.
-  Inferred Contact.
-  Outcrop.
-  Float.
-  Dip & Strike of Bedding.

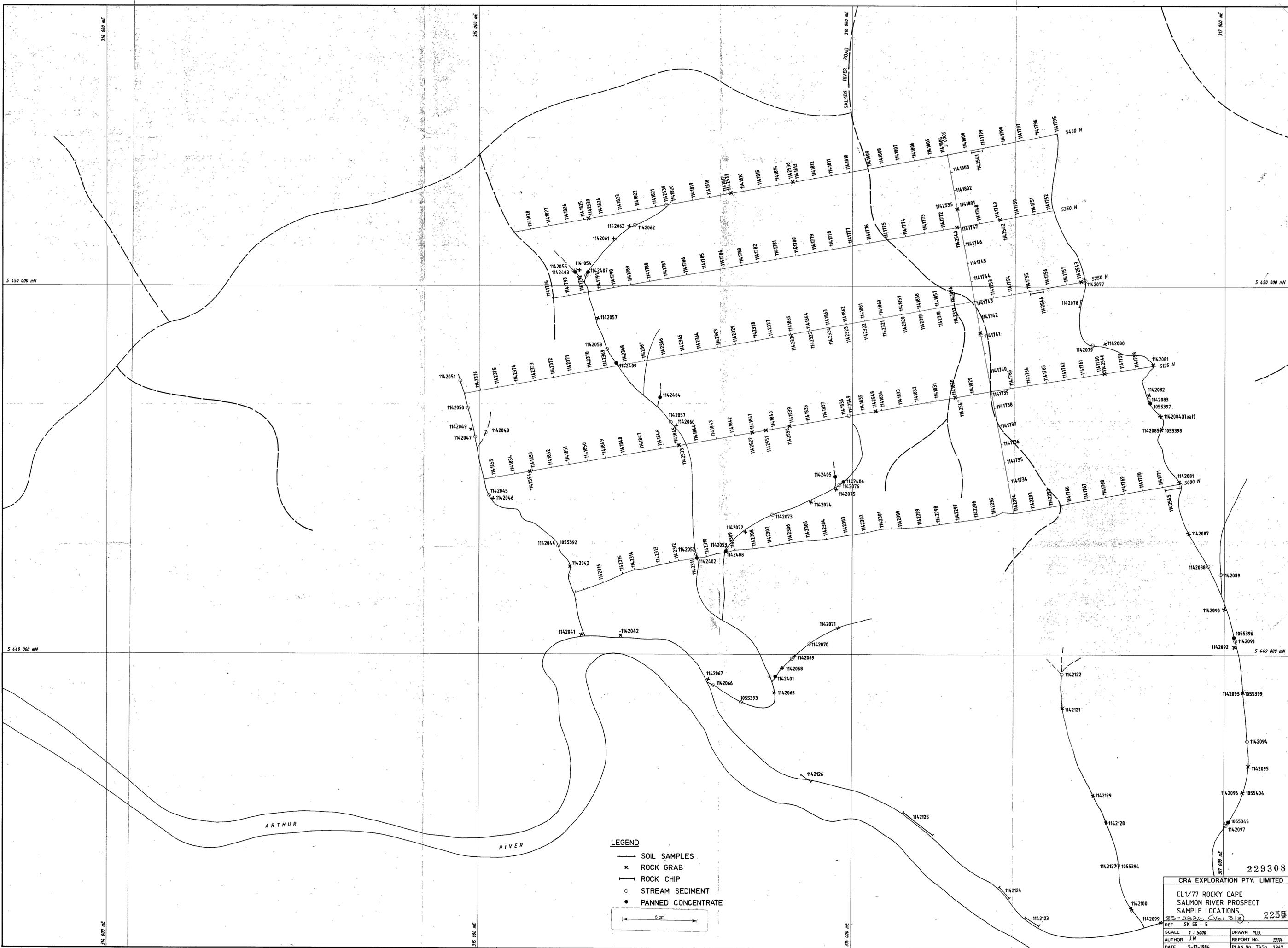


229307

CRA EXPLORATION PTY. LIMITED

**ROCKY CAPE E.L. 1/77
SALMON RIVER PROSPECT
GEOLOGY PLAN 2254**

REF	SK55 - 5	DRAWN	R.T.
SCALE	1 : 5000	REPORT NO	13116
AUTHOR	J.W.	PLAN No.	TASh 2366
DATE	5 - 12 - 1984		



LEGEND

- SOIL SAMPLES
- ✕ ROCK GRAB
- ROCK CHIP
- STREAM SEDIMENT
- PANNED CONCENTRATE

50m

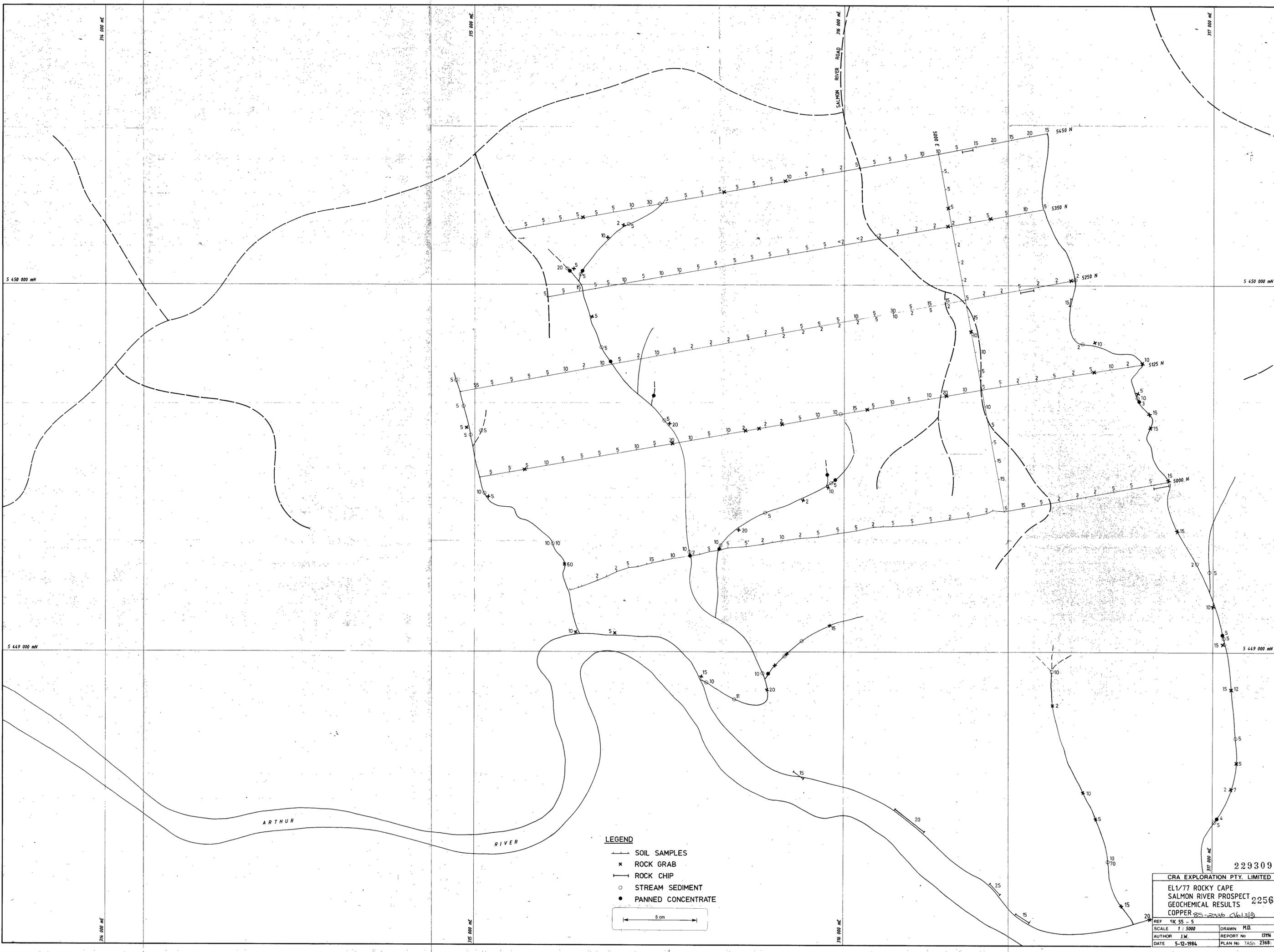
229308

CRA EXPLORATION PTY. LIMITED

EL1/77 ROCKY CAPE
SALMON RIVER PROSPECT
SAMPLE LOCATIONS

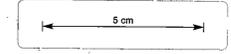
85-2336 (Vol 3) 2255

REF	SK 55 - 5
SCALE	1 : 5000
AUTHOR	J.W
DATE	5-12-1984
DRAWN	M.D.
REPORT No.	13714
PLAN No.	TASH 2367



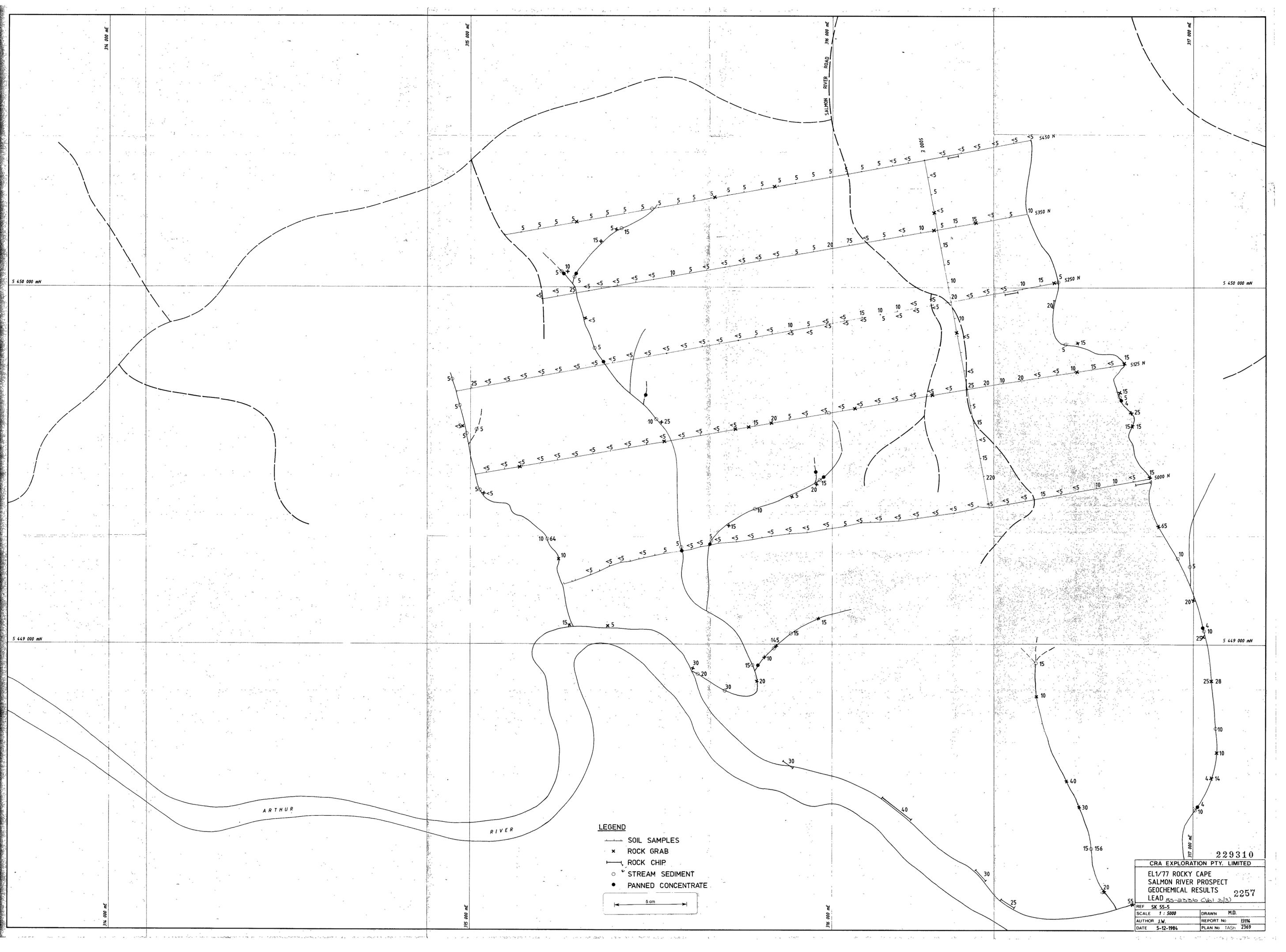
LEGEND

- SOIL SAMPLES
- × ROCK GRAB
- ROCK CHIP
- STREAM SEDIMENT
- PANNED CONCENTRATE



CRA EXPLORATION PTY. LIMITED	
EL1/77 ROCKY CAPE	
SALMON RIVER PROSPECT	
GEOCHEMICAL RESULTS	
COPPER 85-2336 (1613)	
REF	CK 55 - 5
SCALE	1 : 5000
AUTHOR	J.W.
DATE	5-12-1984
DRAWN	M.D.
REPORT No	1374
PLAN No	TASh 2368

229309



LEGEND

- SOIL SAMPLES
- x ROCK GRAB
- T ROCK CHIP
- o STREAM SEDIMENT
- PANNED CONCENTRATE

5 cm

229310

CRA EXPLORATION PTY. LIMITED

EL1/77 ROCKY CAPE
SALMON RIVER PROSPECT
GEOCHEMICAL RESULTS
LEAD 85-2336 (61/2/3) **2257**

REF SK 55-5	DRAWN M.D.
SCALE 1 : 5000	REPORT No 1376
AUTHOR J.W.	PLAN No 1ASh 2369
DATE 5-12-1984	



LEGEND

- SOIL SAMPLES
- × ROCK GRAB
- | ROCK CHIP
- STREAM SEDIMENT
- PANNED CONCENTRATE

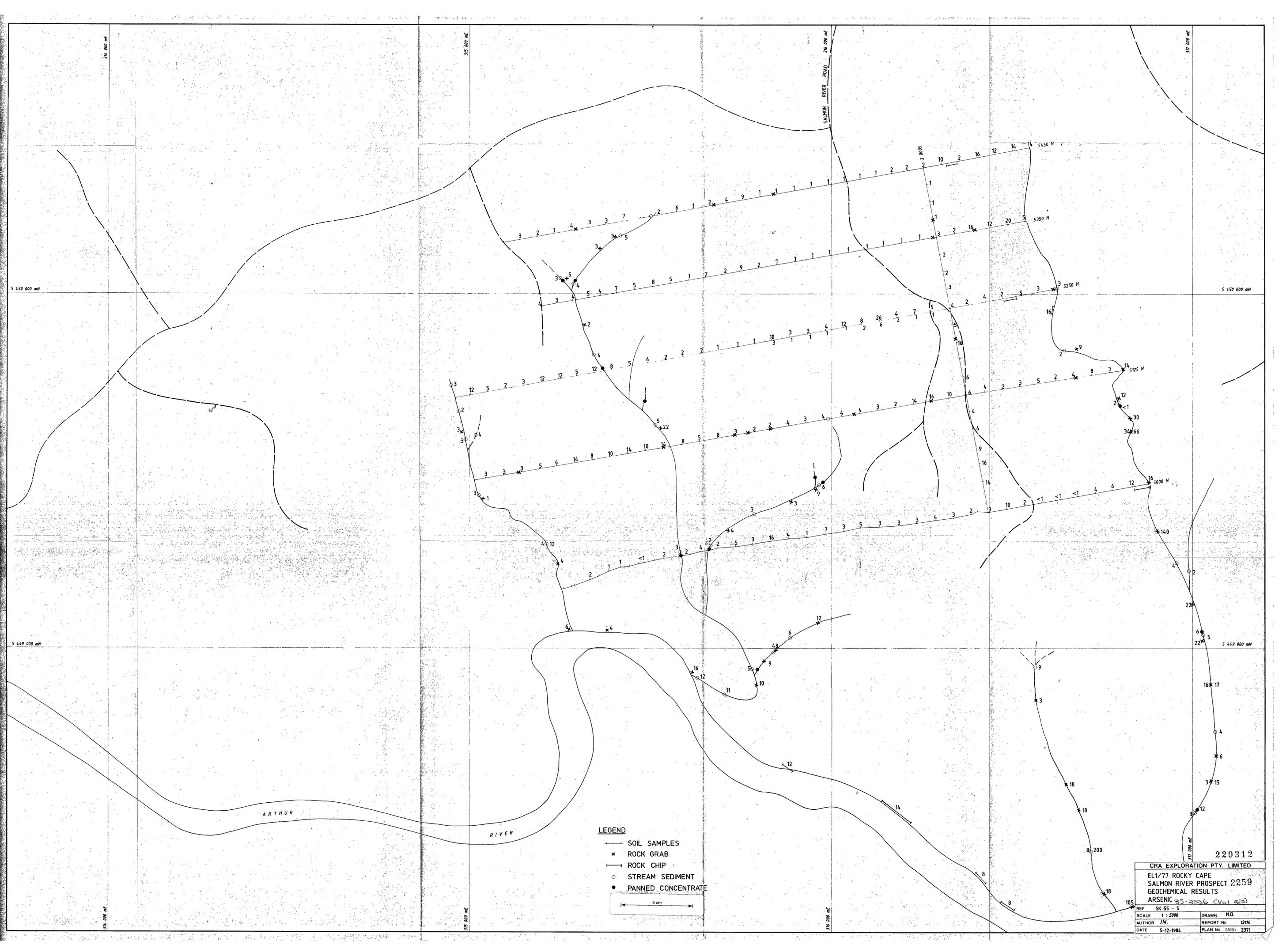
5 cm

229311

CRA EXPLORATION PTY. LIMITED

EL1/77 ROCKY CAPE
SALMON RIVER PROSPECT 2258
GEOCHEMICAL RESULTS
ZINC 85-2326 (Vol 3/5)

REF SK 55 - 5	DRAWN M.D.
SCALE 1 : 5000	REPORT No 1376
AUTHOR J.W.	PLAN No TASH 2370
DATE 5-12-1984	

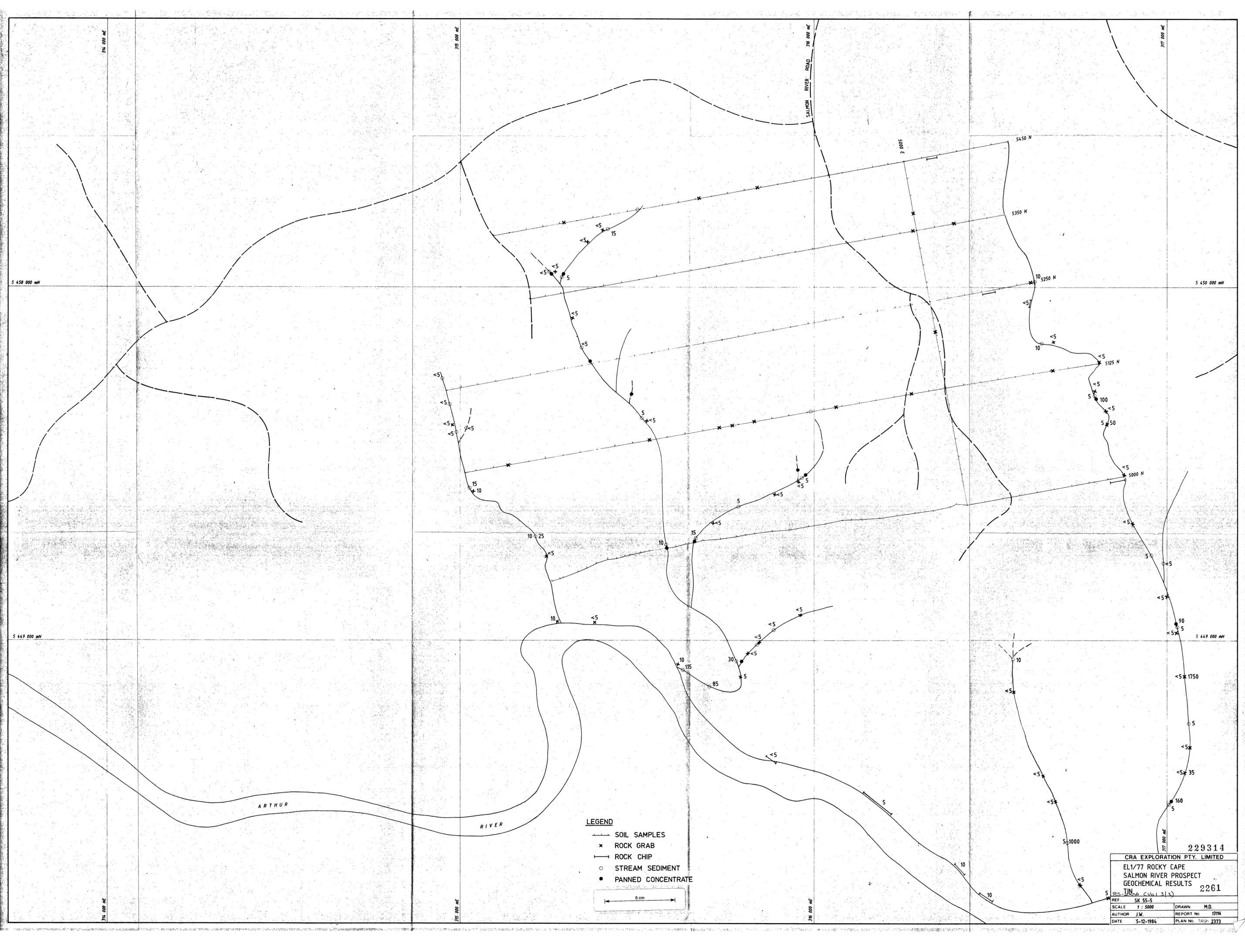


- LEGEND**
- SOIL SAMPLES
 - × ROCK GRAB
 - ROCK CHIP
 - STREAM SEDIMENT
 - PANNED CONCENTRATE
- 5 cm

229312

CRA EXPLORATION PTY. LIMITED
 EL1/77 ROCKY CAPE
 SALMON RIVER PROSPECT 2259
 GEOCHEMICAL RESULTS
 ARSENIC 95-2536 (Vol 2/3)

REF	SK 55 - 5	DRAWN	M.D.
SCALE	1 : 5000	REPORT NO	1374
AUTHOR	J.W.	PLAN NO	TASH 2371
DATE	5-12-1984		



LEGEND

- SOIL SAMPLES
- x ROCK GRAB
- ROCK CHIP
- STREAM SEDIMENT
- PANNED CONCENTRATE

5 cm

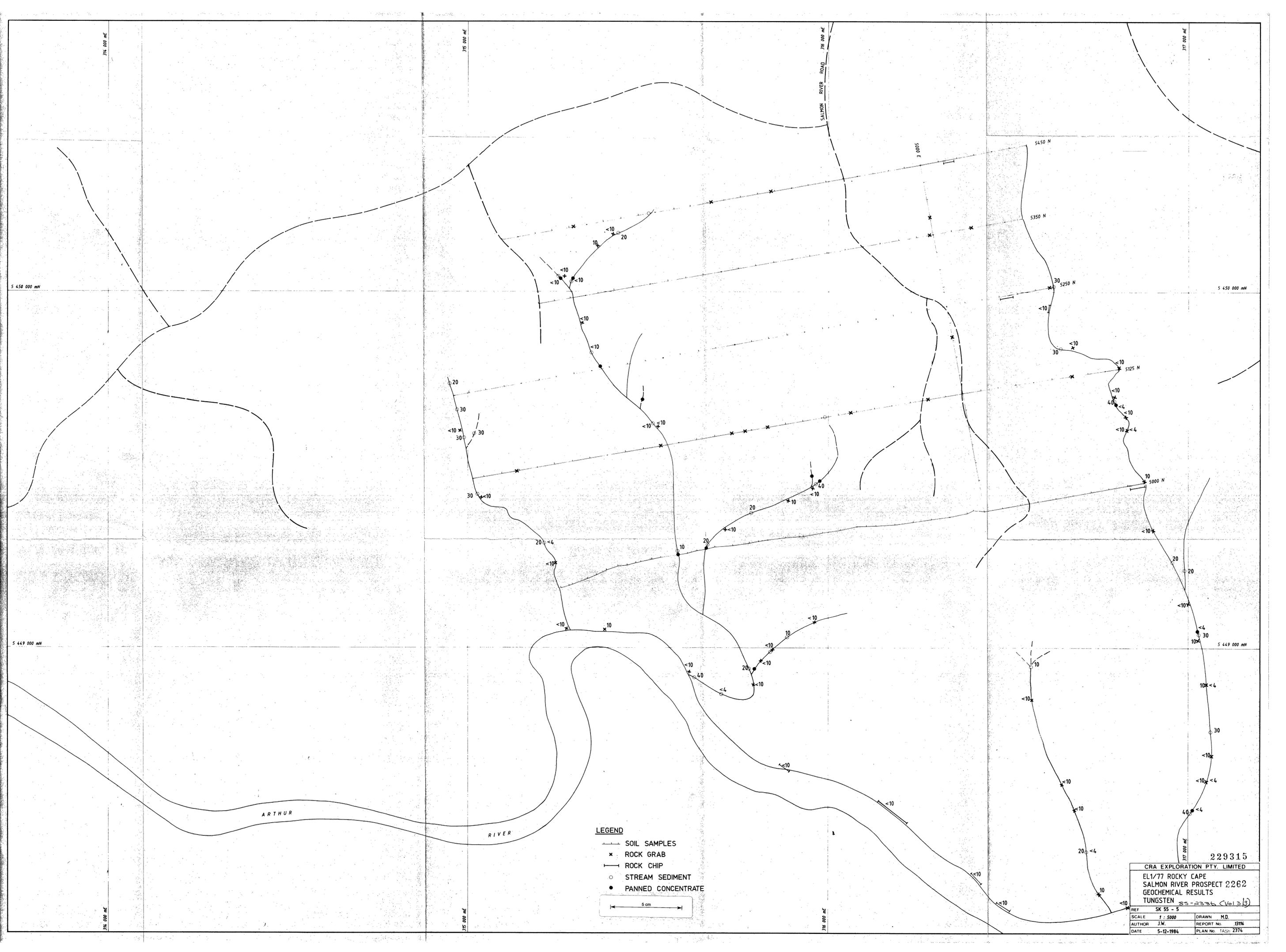
229314

CRA EXPLORATION PTY. LIMITED

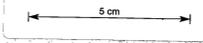
EL1/77 ROCKY CAPE
SALMON RIVER PROSPECT
GEOCHEMICAL RESULTS

2261

REF. SK 55-5	DRAWN M.D.
SCALE 1 : 5000	REPORT No 1374
AUTHOR J.W.	PLAN No. TASH 2373
DATE 5-12-1984	



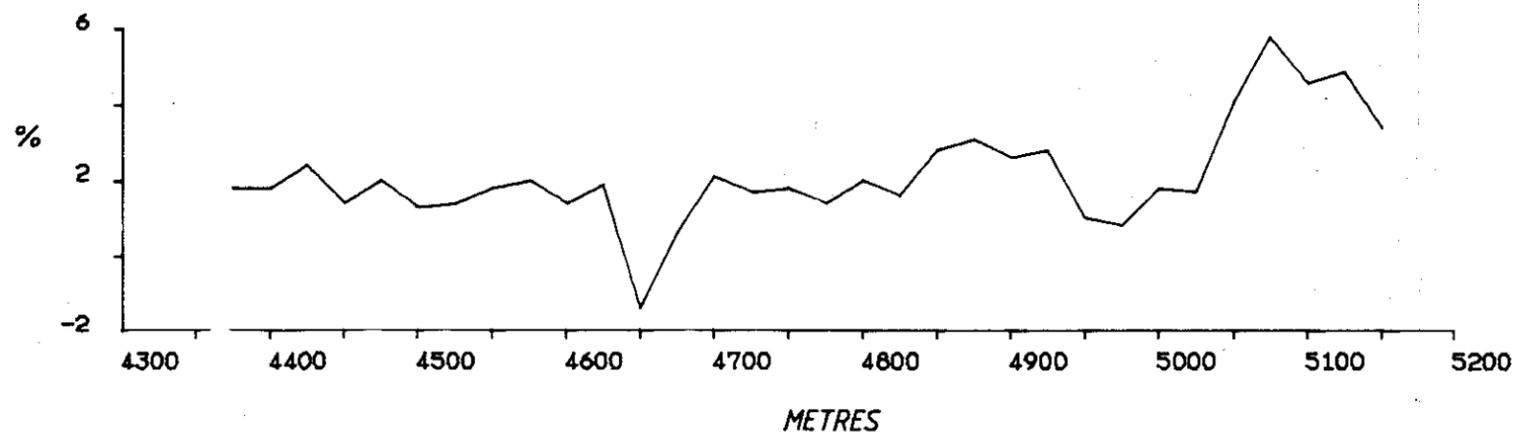
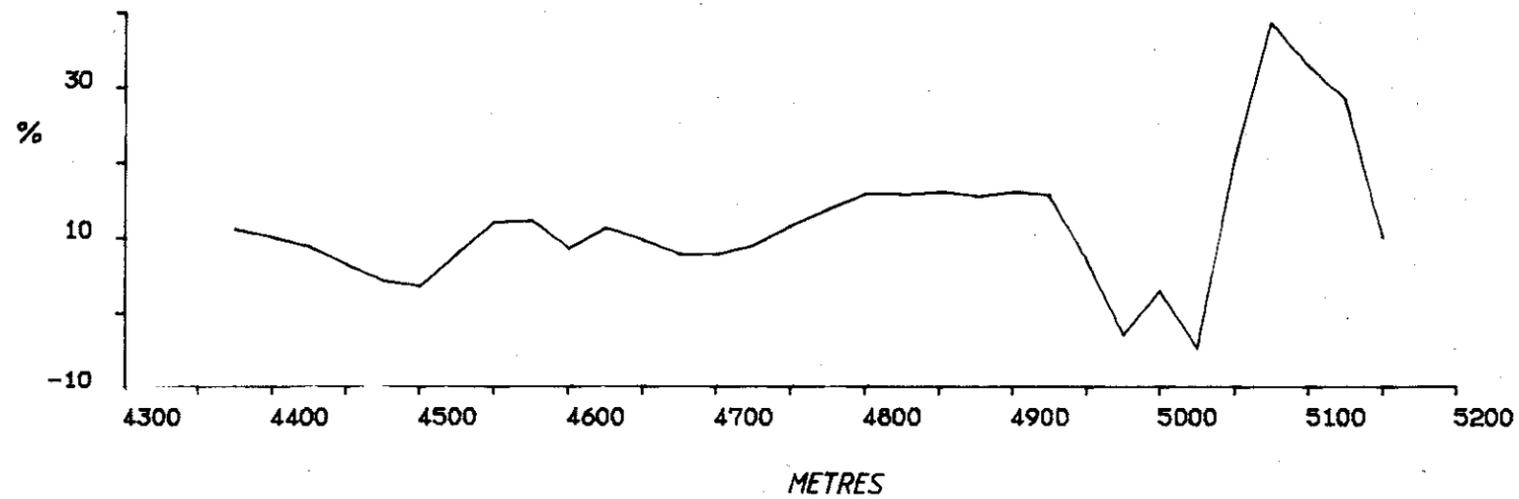
- LEGEND**
- SOIL SAMPLES
 - × ROCK GRAB
 - ROCK CHIP
 - STREAM SEDIMENT
 - PANNED CONCENTRATE



229315

CRA EXPLORATION PTY. LIMITED	
EL1/77 ROCKY CAPE	
SALMON RIVER PROSPECT 2262	
GEOCHEMICAL RESULTS	
TUNGSTEN	
REF SK 55 - 5	85-2374 (Vol 3/3)
SCALE 1:5000	DRAWN M.D.
AUTHOR J.W.	REPORT NO. 1316
DATE 5-12-1984	PLAN NO. TASH 2374

NORTH ARTHUR: SALMON RIVER LINE 5125N EM



229316

5 cm

CRA EXPLORATION PTY. LIMITED

ROCKY CAPE E.L. 1/77
SALMON RIVER PROSPECT

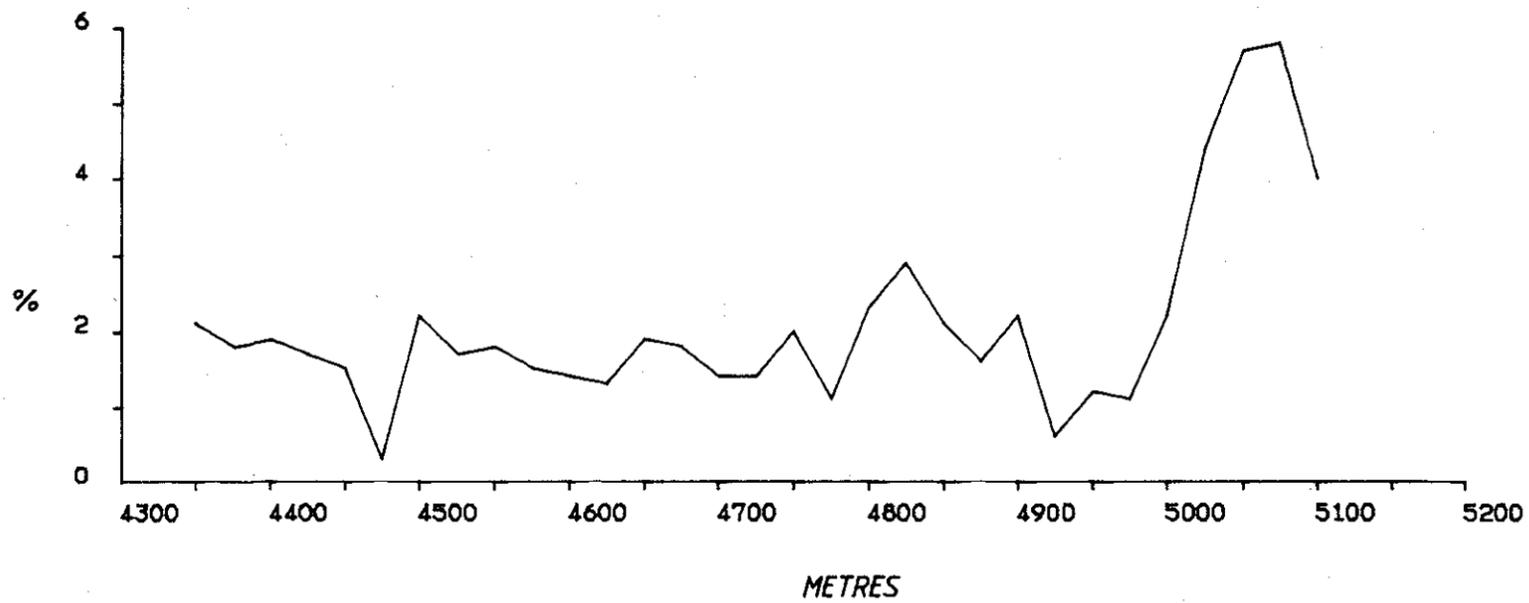
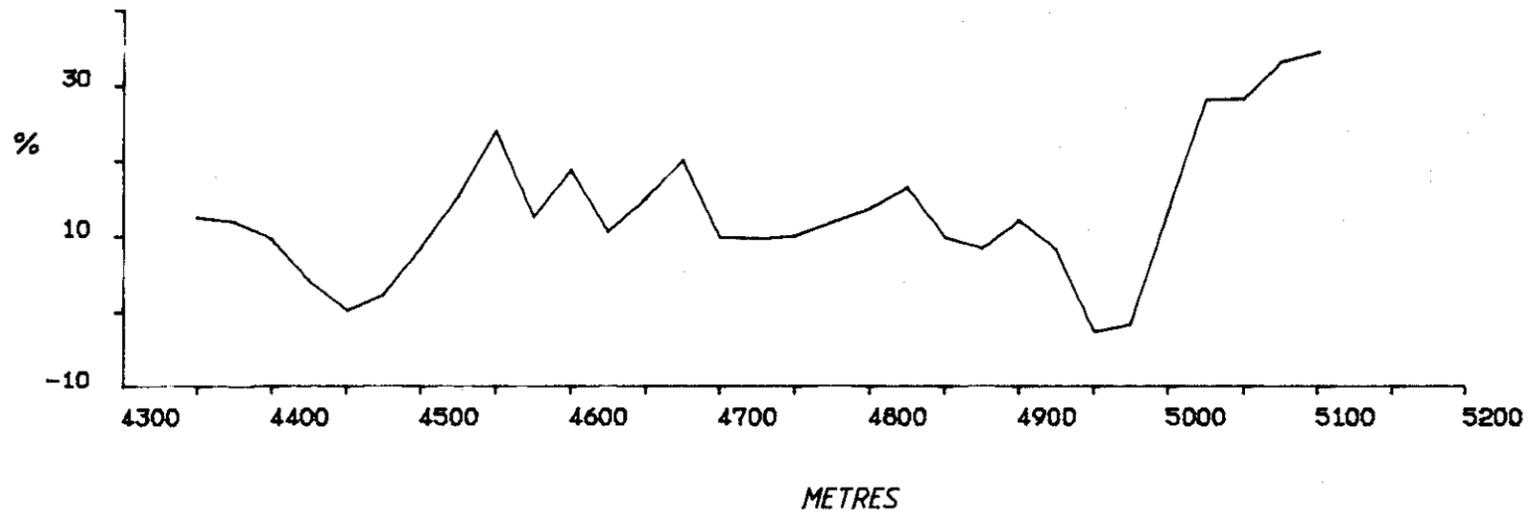
LINE 5125 mN

GENIE PROFILES 2263

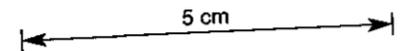
85-2336 (Vol 3/5)

REF.	SK55 - 3
SCALE	1 : 5000
AUTHOR	T.v.S.
DATE	23 - 11 - 1984
DRAWN	T.v.S.
REPORT No.	13114
PLAN No.	TASH 2297

NORTH ARTHUR: SALMON RIVER LINE 5250N EM

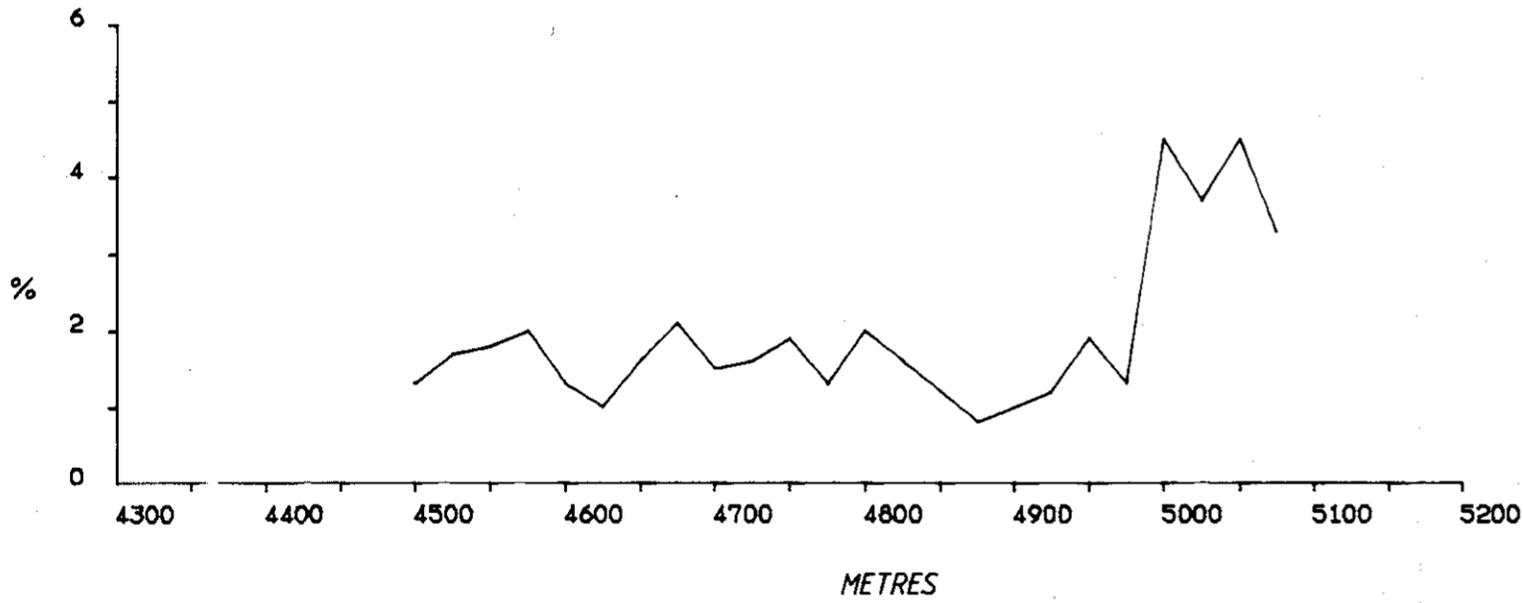
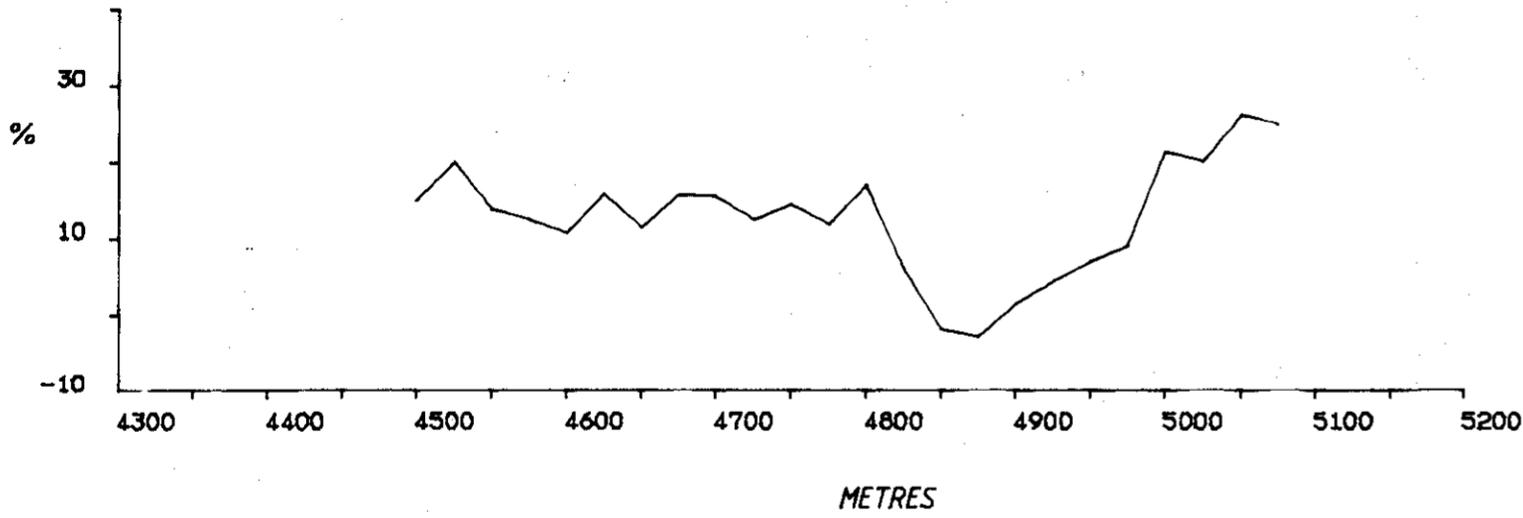


229317

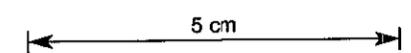


CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE E.L. 1/77			
SALMON RIVER PROSPECT			
LINE 5250 mN			2264
GENIE PROFILES			
85-2336 (101 313)			
REF.	SK55 - 3		
SCALE	1 : 5000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	13114
DATE	23 - 11 - 1984	PLAN No.	TASh 2298

NORTH ARTHUR: SALMON RIVER LINE 5350N EM

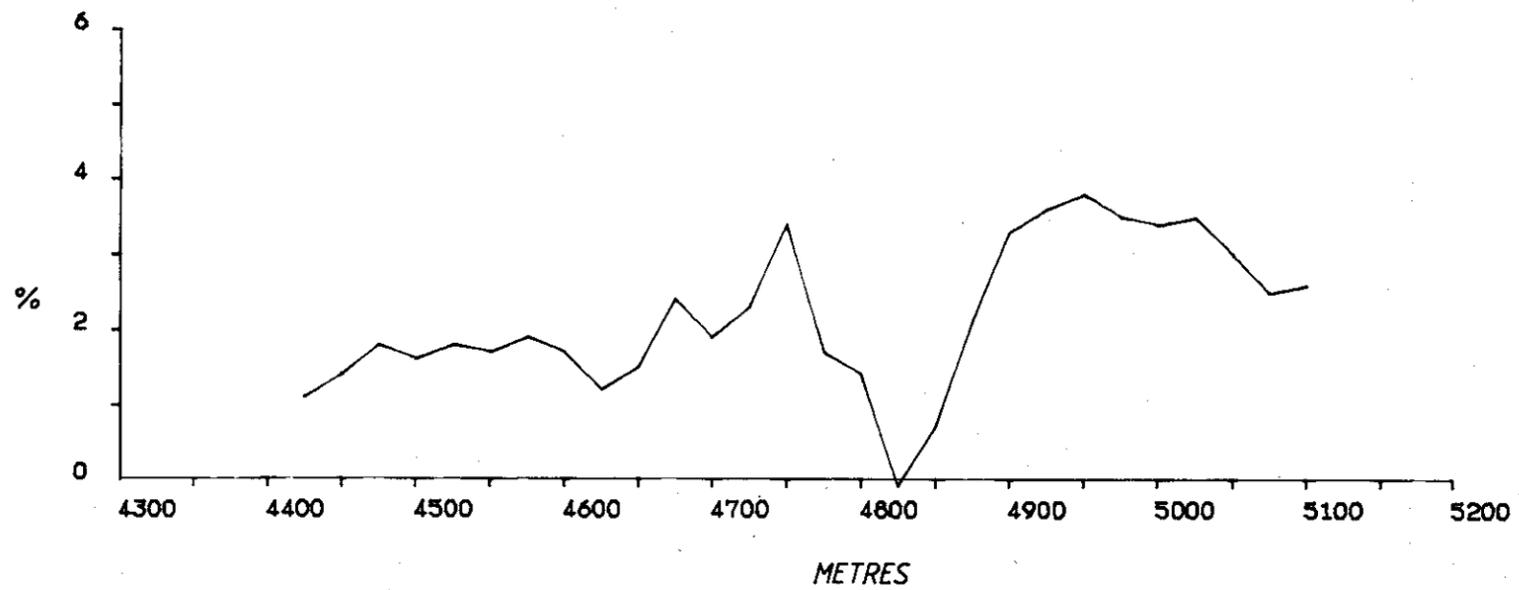
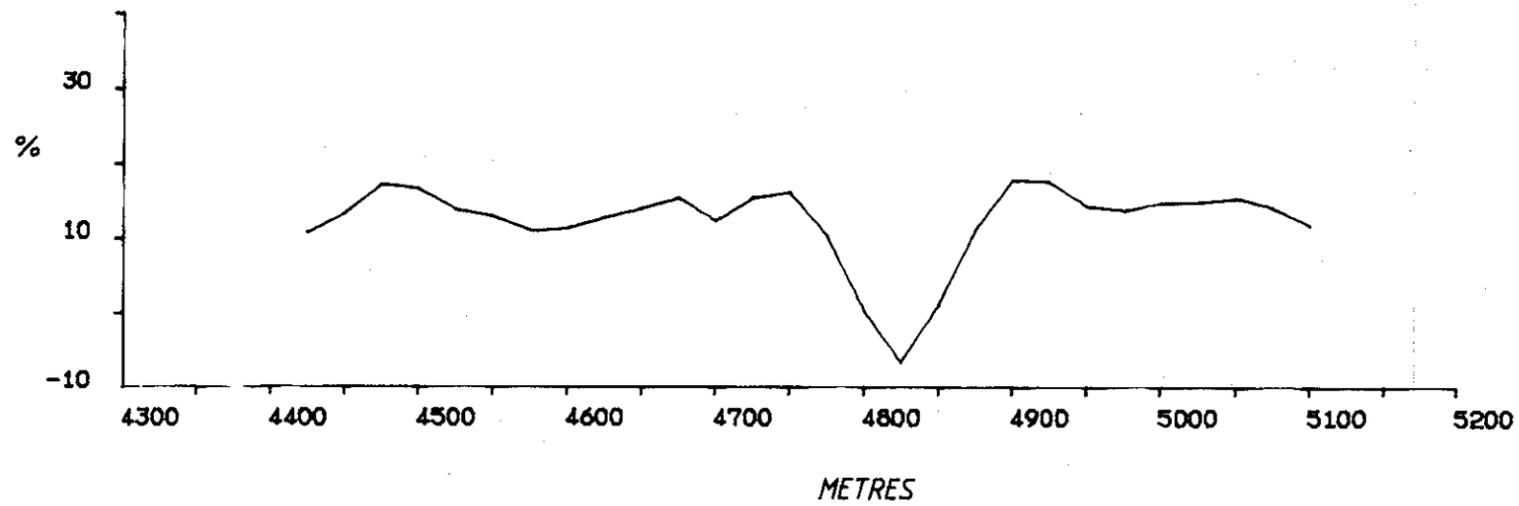


229318



CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE E.L. 1/77			
SALMON RIVER PROSPECT			
LINE 5350 mN			
GENIE PROFILES 2265			
85-2336 (V.1.2)			
REF.	SK55 - 3		
SCALE	1 : 5000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	13114
DATE	23 - 11 - 1984	PLAN No. TASH	2299

NORTH ARTHUR: SALMON RIVER LINE 5450N EM



229319

5 cm

CRA EXPLORATION PTY. LIMITED

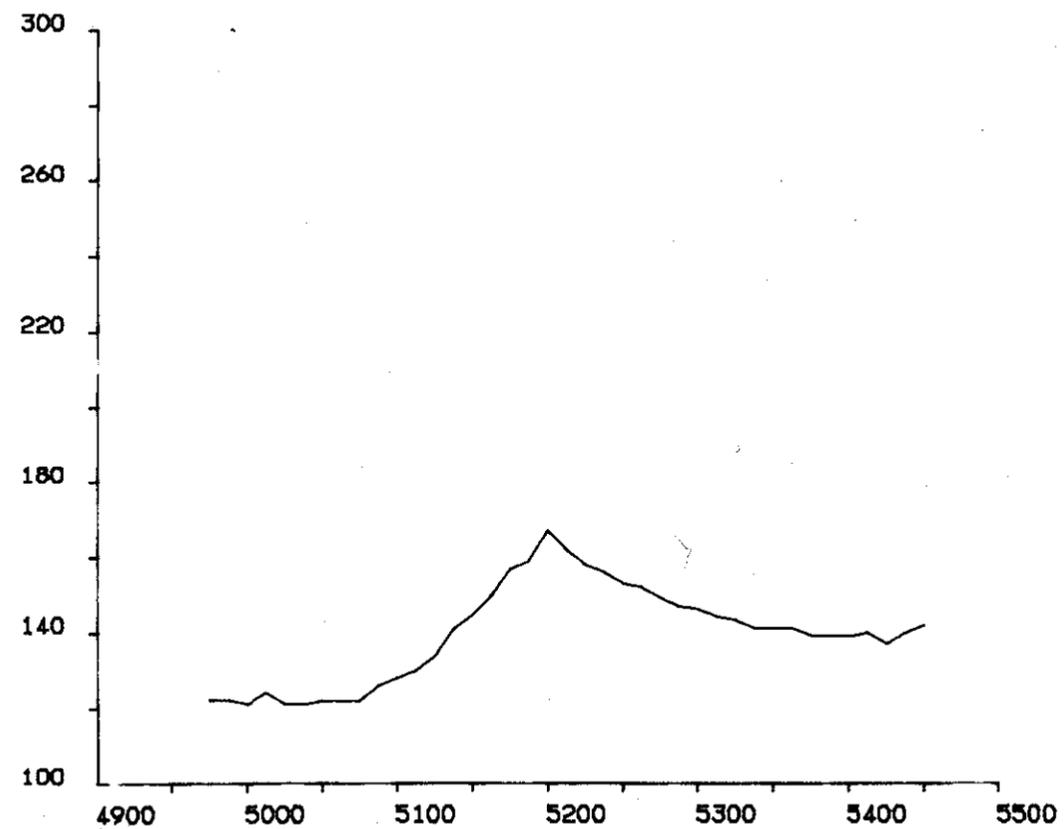
ROCKY CAPE E.L. 1/77
SALMON RIVER PROSPECT

LINE 5450 mN
GENIE PROFILES 2266

85-2336 (Vol 3/3)

REF.	SK55 - 3		
SCALE	1 : 5000	DRAWN	T.V.S.
AUTHOR	T.V.S.	REPORT No.	13114
DATE	23 - 11 - 1984	PLAN No.	TASh 2300

SALMON RIVER: LINE 5000E MAGNETICS

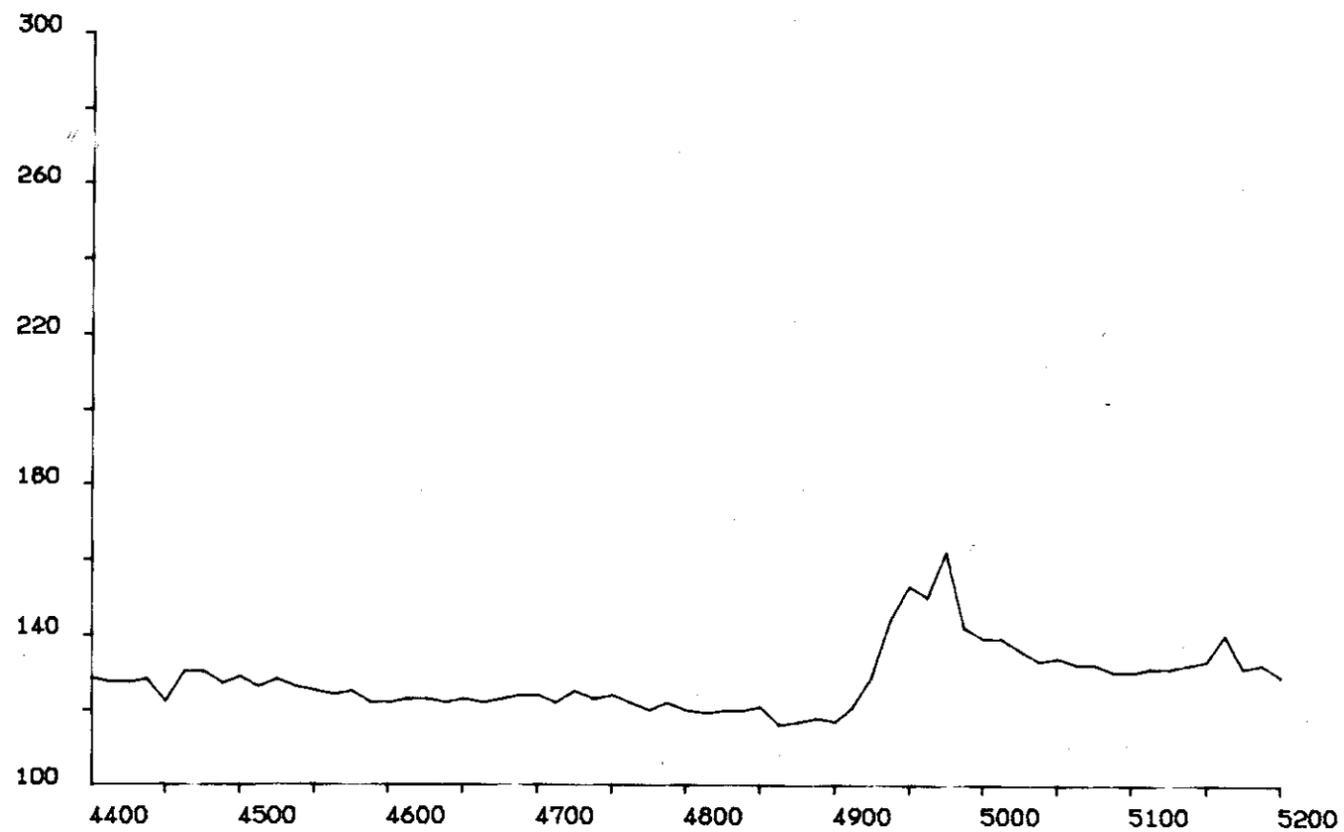


229320

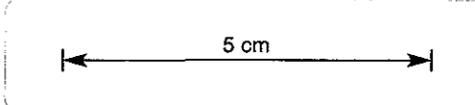
5 cm

CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE EL1/77			
SALMON RIVER ANOMALY			
GROUND MAGNETICS			
LINE 5000E			
85-2336 (Vol 3/3)			2267
REF.	SK55-5		
SCALE	1:5000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	13114
DATE	21-12-1984	PLAN No.	TASH 2415

SALMON RIVER: LINE 5125N

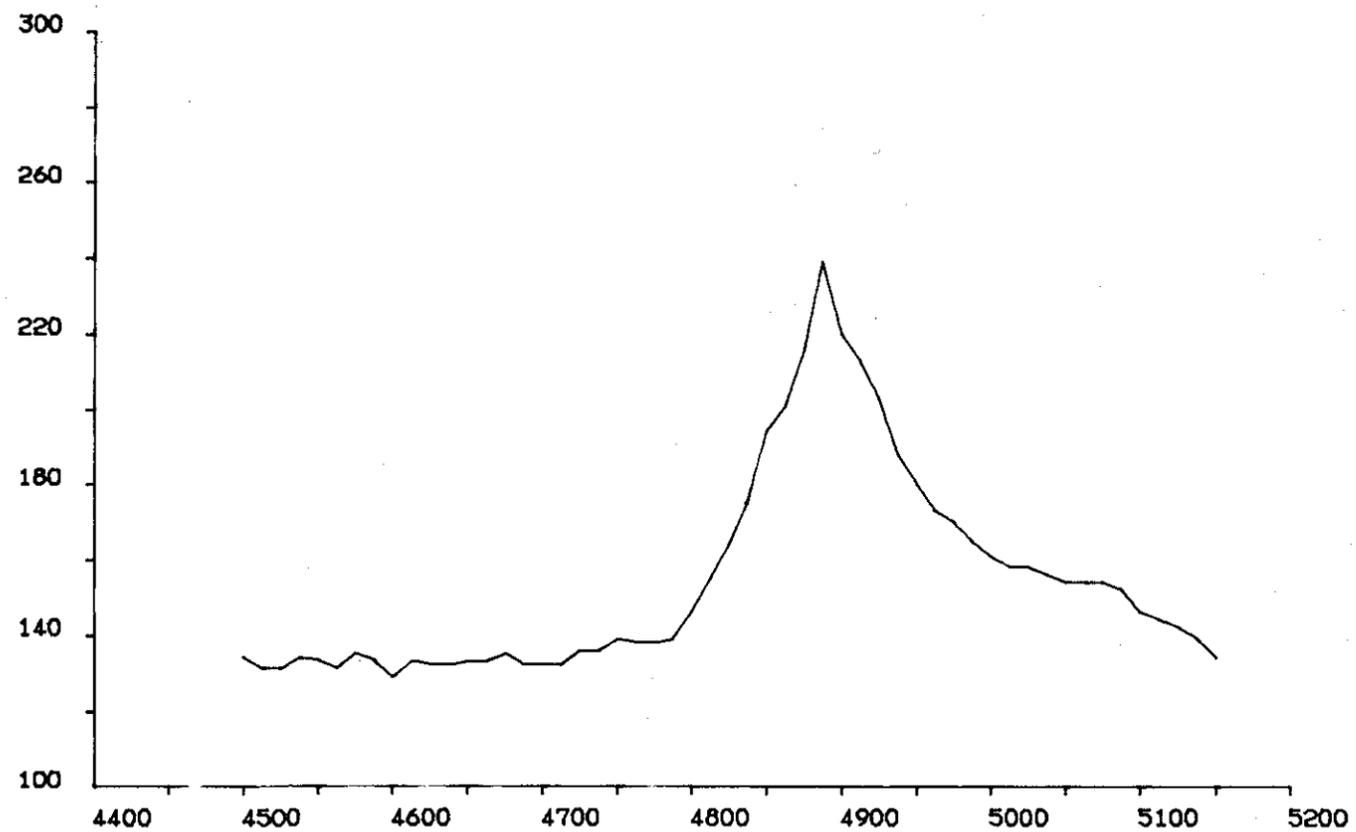


229321

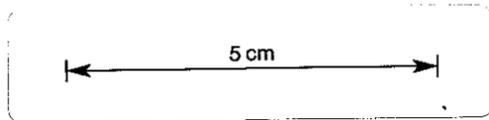


CRA EXPLORATION PTY. LIMITED	
ROCKY CAPE EL1/77	
SALMON RIVER ANOMALY	
GROUND MAGNETICS	
LINE 5125E	2268
83-2236 C/101 3/5	
REF.	SK55-5
SCALE	1:5000
DRAWN	T.v.S.
AUTHOR	T.v.S.
REPORT No.	13114
DATE	21-12-1984
PLAN No.	TASh 2416

SALMON RIVER: LINE 5250N MAGNETICS

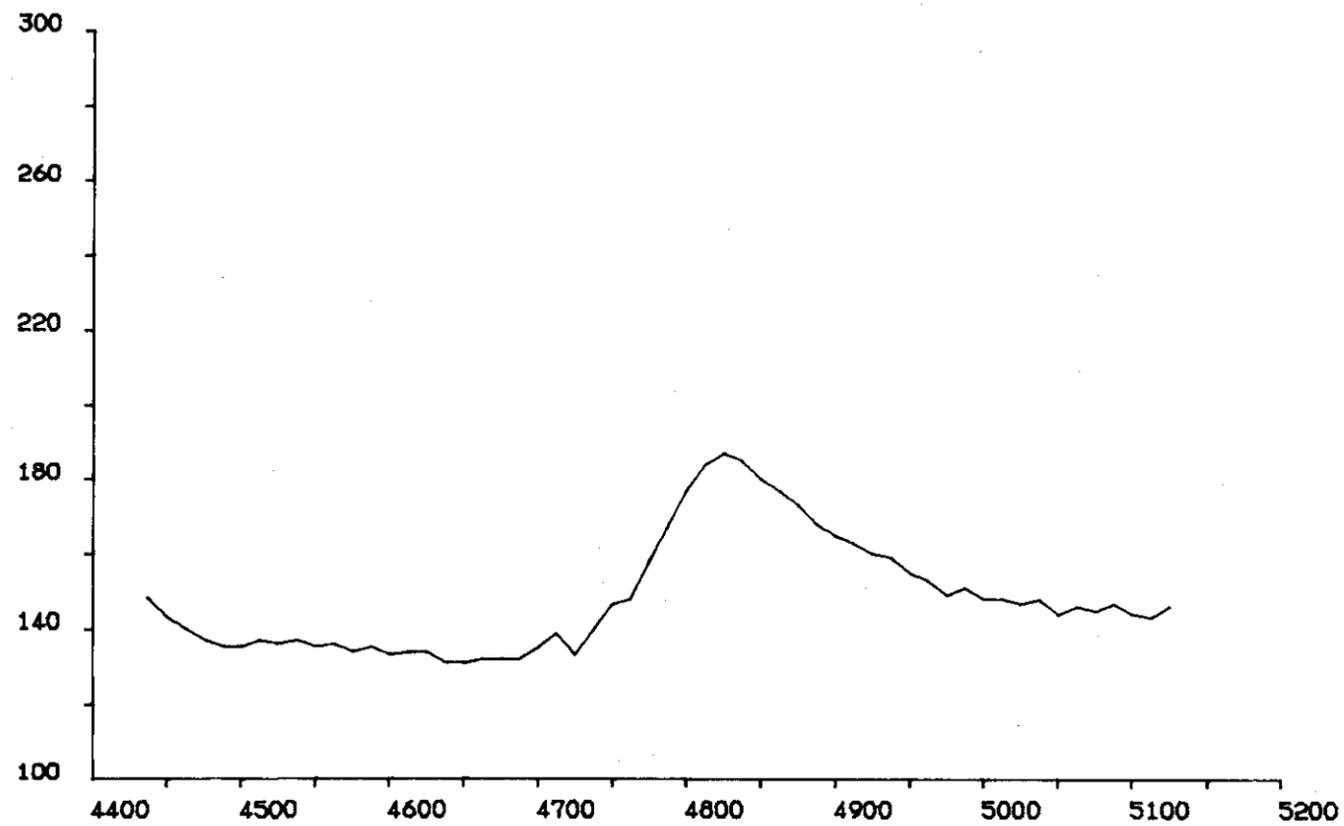


229322



CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE EL1/77			
SALMON RIVER ANOMALY			
GROUND MAGNETICS			2269
LINE 5250E 85-2336 (Vol 3/3)			
REF.	SK55-5		
SCALE	1:5000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	13114
DATE	21-12-1984	PLAN No.	TASH 2417

SALMON RIVER: LINE 5350N MAGNETICS

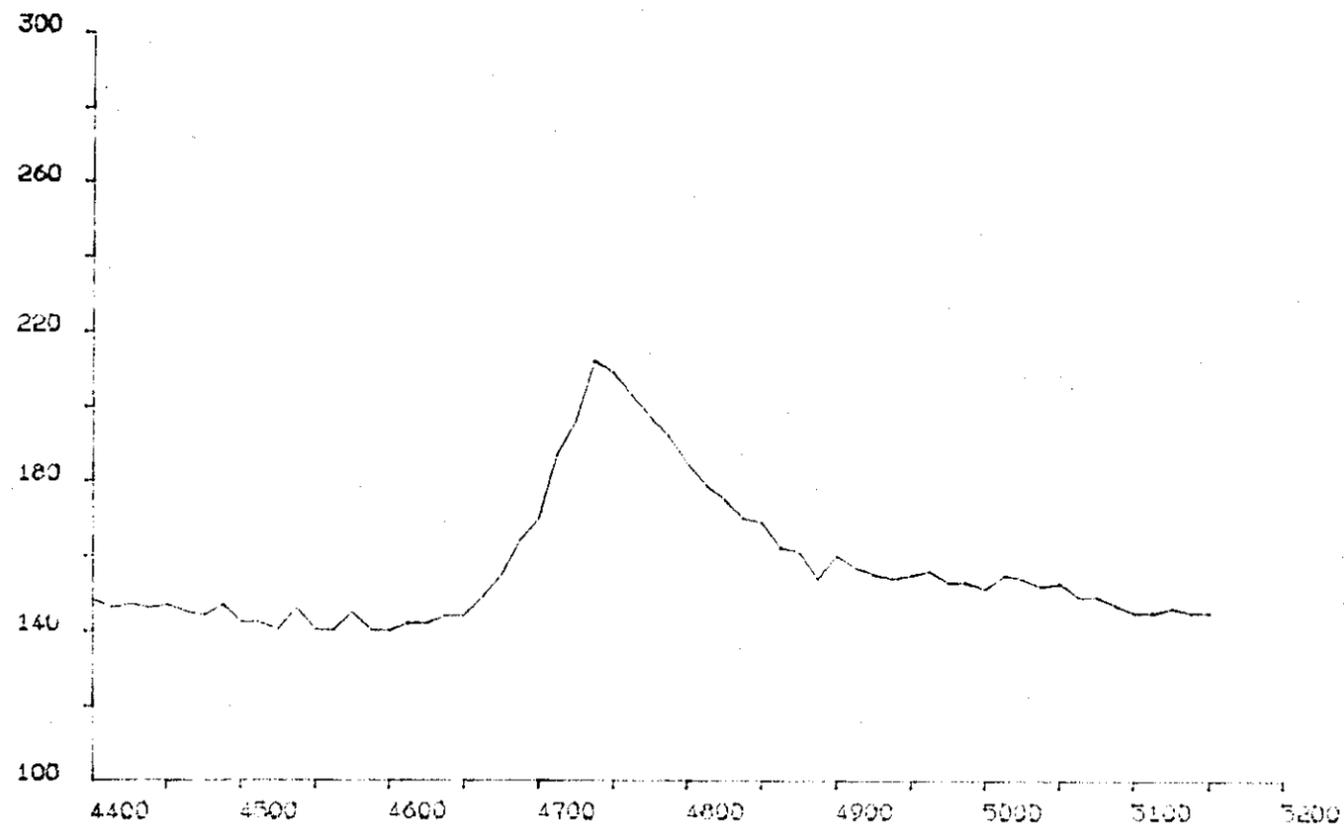


229323

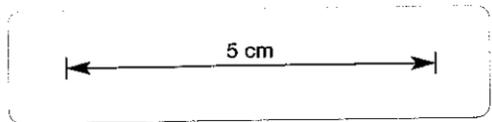
5 cm

CRA EXPLORATION PTY. LIMITED	
ROCKY CAPE EL1/77	
SALMON RIVER ANOMALY	
GROUND MAGNETICS	
LINE 5350E	2270
85-2226 2/01 3(3)	
REF.	SK55-5
SCALE	1:5000
DRAWN	T.v.S.
AUTHOR	T.v.S.
REPORT No.	1314
DATE	21-12-1984
PLAN No.	TASh 2418

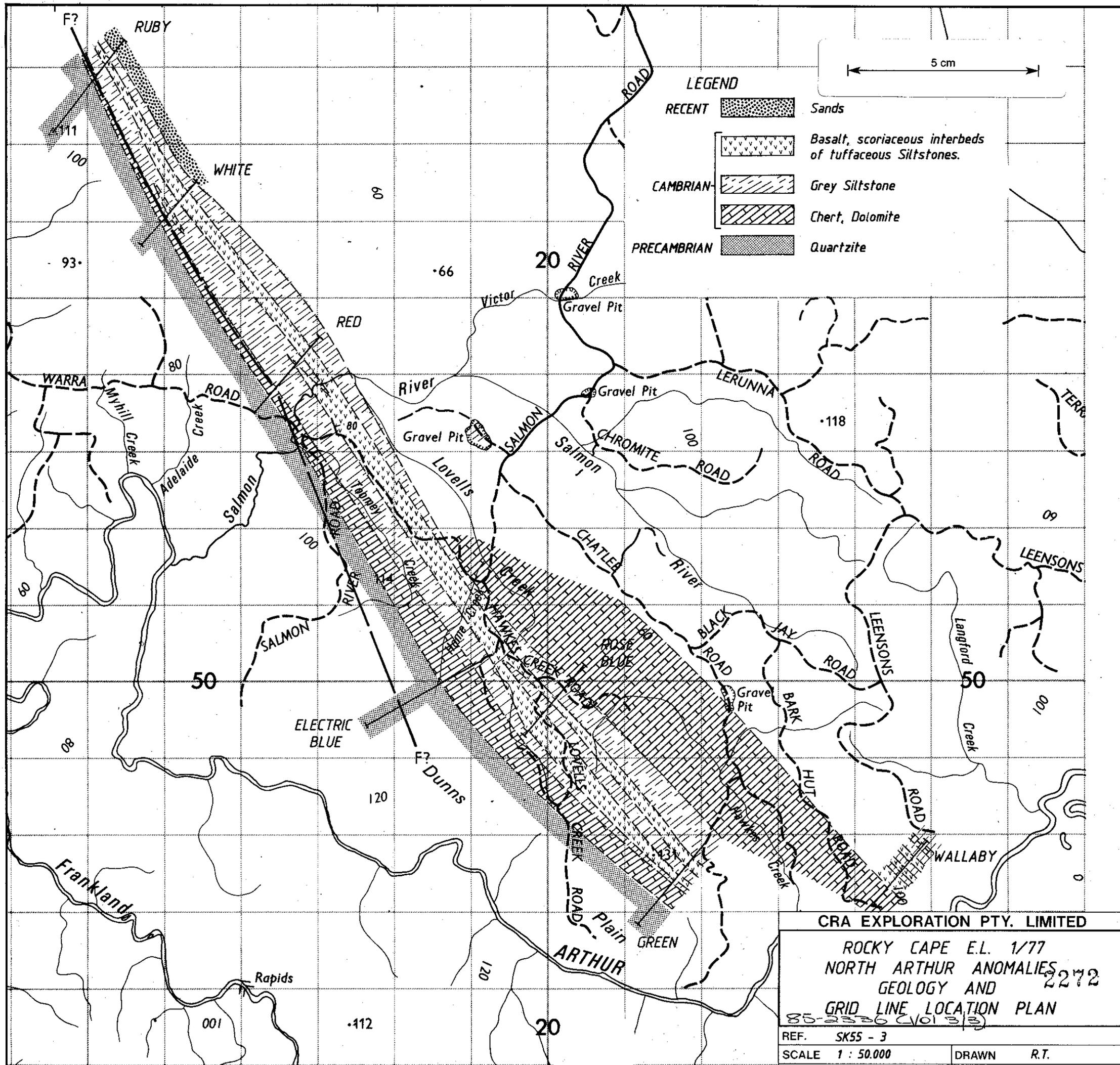
SALMON RIVER: LINE 5450N MAGNETICS



229324



CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE EL1/77			
SALMON RIVER ANOMALY			
GROUND MAGNETICS			
LINE 5450E 85-2326 (161 3/3) 2271			
REF.	SK55-5		
SCALE	1:5000	DRAWN	T.v.S
AUTHOR	T.v.S.	REPORT No.	1314
DATE	21-12-1984	PLAN No.	TASH 2419



CRA EXPLORATION PTY. LIMITED

ROCKY CAPE E.L. 1/77
 NORTH ARTHUR ANOMALIES 2272
 GEOLOGY AND
 GRID LINE LOCATION PLAN
 85-2526 (1013/3)

REF. SK55 - 3

SCALE 1 : 50,000

DRAWN R.T.

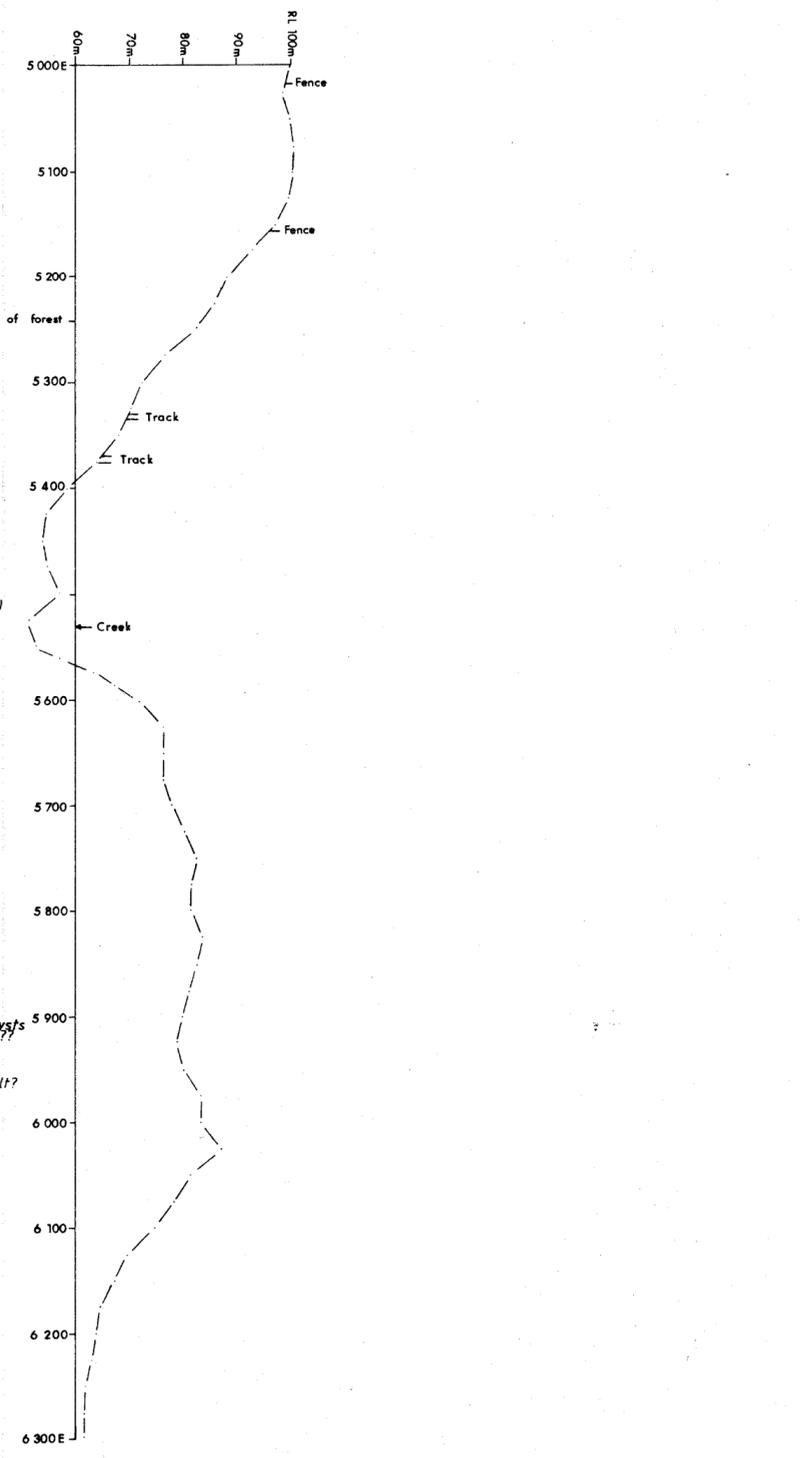
AUTHOR J.W.

REPORT No. 13114

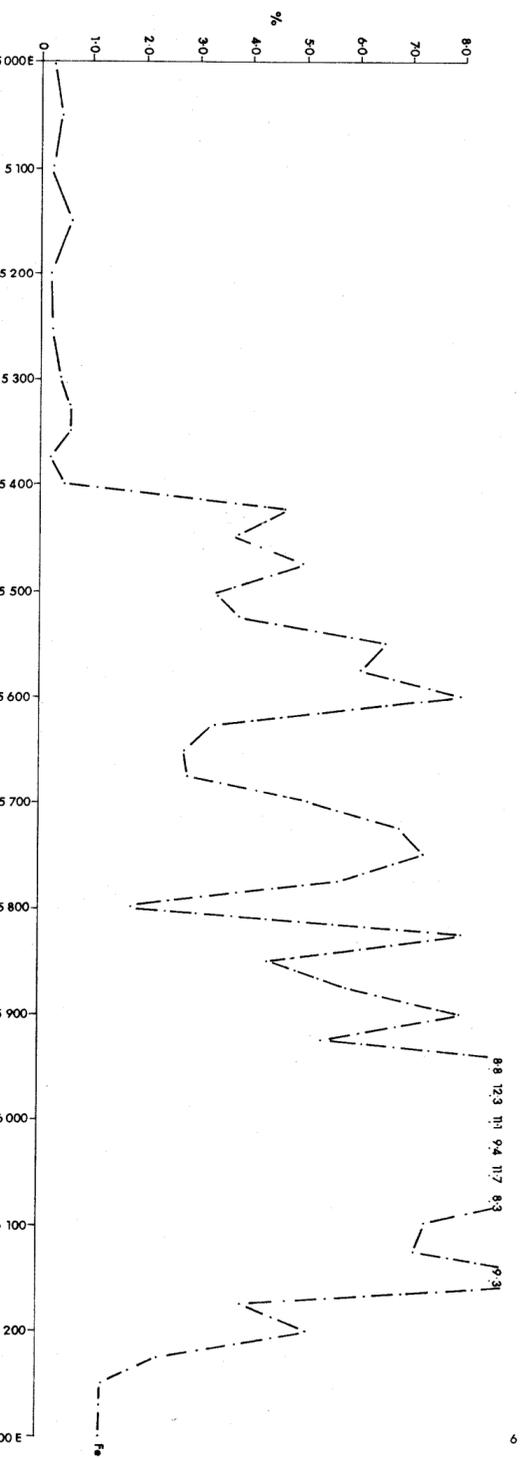
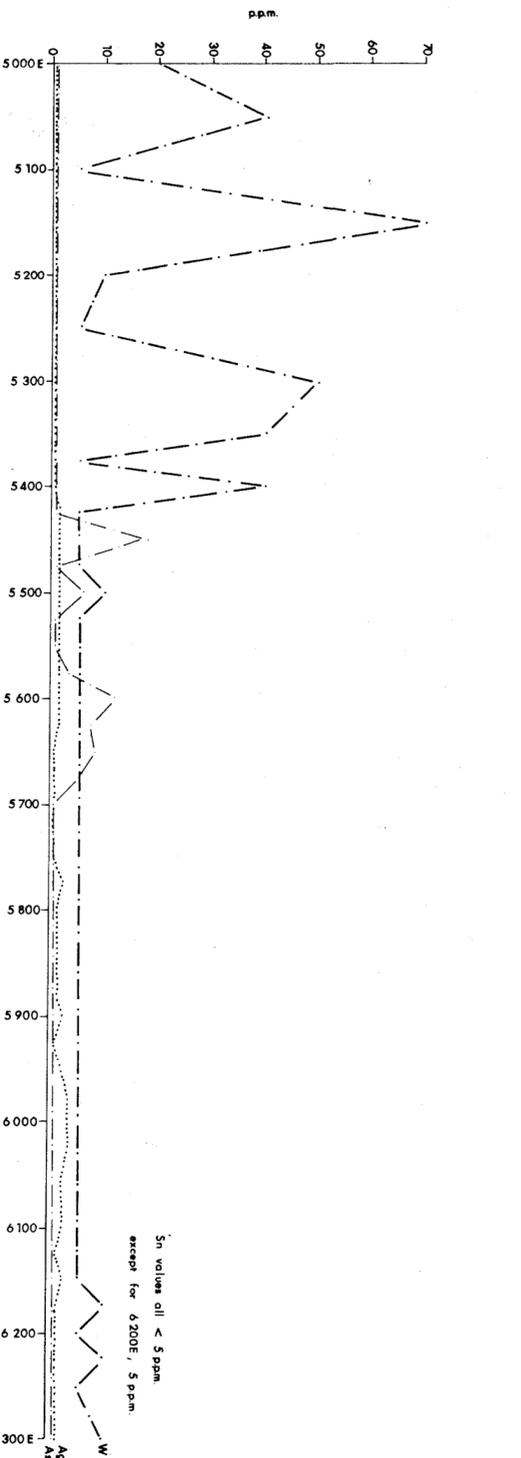
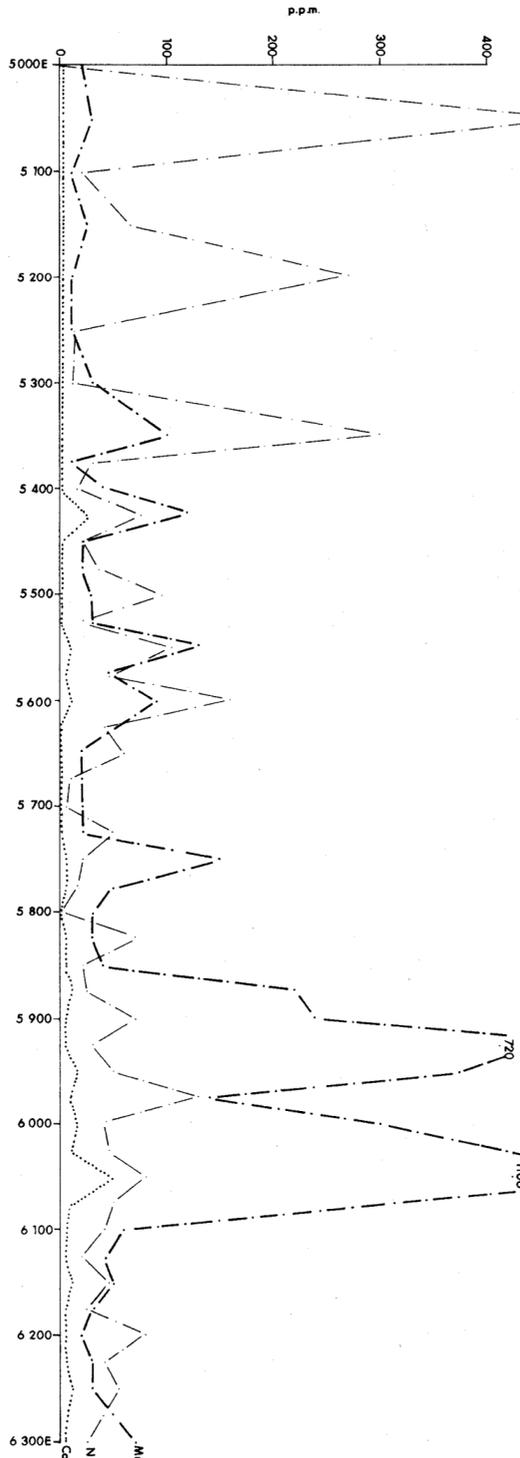
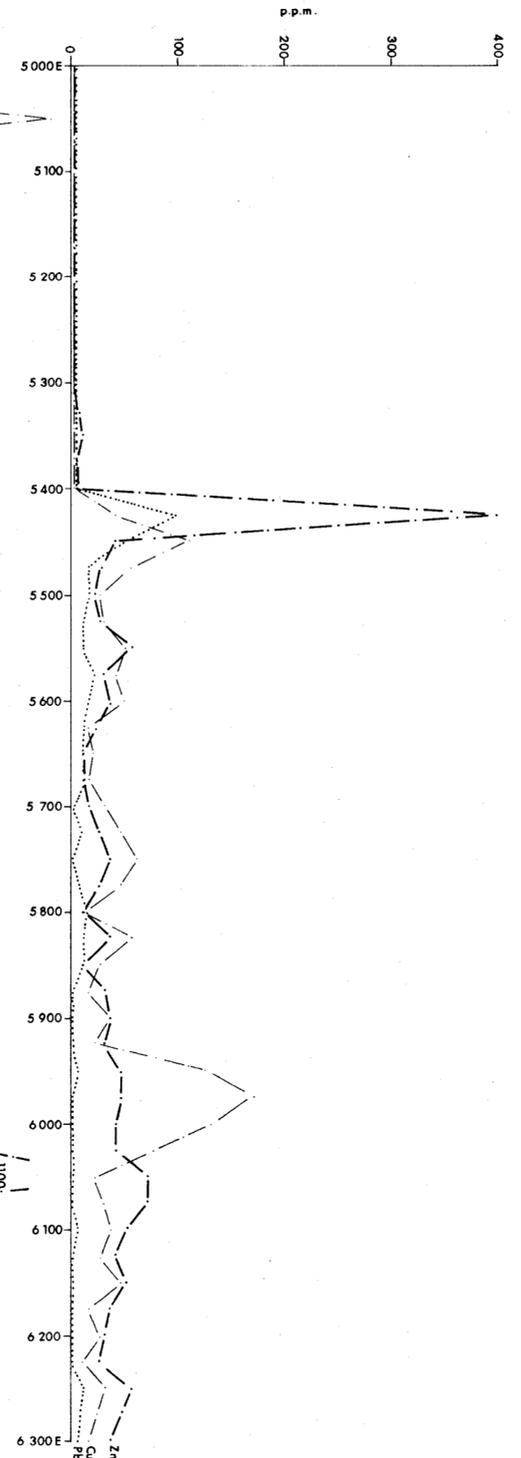
DATE 25 - 2 - 1985

PLAN No. TASH 2534

229325



- 1141 508 lt. grey sandy soil
- 509 lt. grey sandy soil
- 510 lt. grey-brown sandy soil
- 511 lt. grey-brown sandy soil
- 512 lt. grey-brown sandy soil
- 513 lt. grey-brown sandy soil
- 514 lt. grey-brown sandy soil
- 515 lt. grey-brown sandy soil
- 516 lt. grey-brown sandy soil
- 517 lt. grey-brown sandy soil
- 518 dk. grey sandy soil
- 519 dk brown-black soil org.
- 1141 520 yellow-brown clay
- 521 yellow-buff clay
- 522 yellow-brown clay
- 523 lt orange-brown clay
- 524 orange-red-brown clay
- 525 red-brown clay
- 526 yellow-brown clay
- 527 lt. buff-yellow clay
- 528 lt. yellow-buff clay
- 529 yellow buff clay
- 1141 530 lt. orange-buff clay
- 531 red-buff clay
- 532 lt. yellow-orange clay
- 533 lt. buff-grey clay
- 534 lt. yellow buff clay
- 535 orange-buff clay
- 536 orange-buff clay
- 537 orange-buff clay
- 538 orange-buff clay
- 539 orange-buff clay
- 1141 540 orange-red clay
- 541 red-brown clay
- 542 red-brown clay
- 543 red-purple clay
- 544 dk. orange-buff clay
- 545 med orange buff clay
- 546 lt. orange-buff clay
- 547 lt. orange buff clay
- 548 lt. orange-buff clay
- 549 lt. buff-brown clay
- 1141 550 lt. buff-brown clay
- 551 v. pale buff-grey clay
- 552 v. pale buff-grey clay



5m values all < 5 ppm
except for 6200E, 5 ppm

5 cm

229326

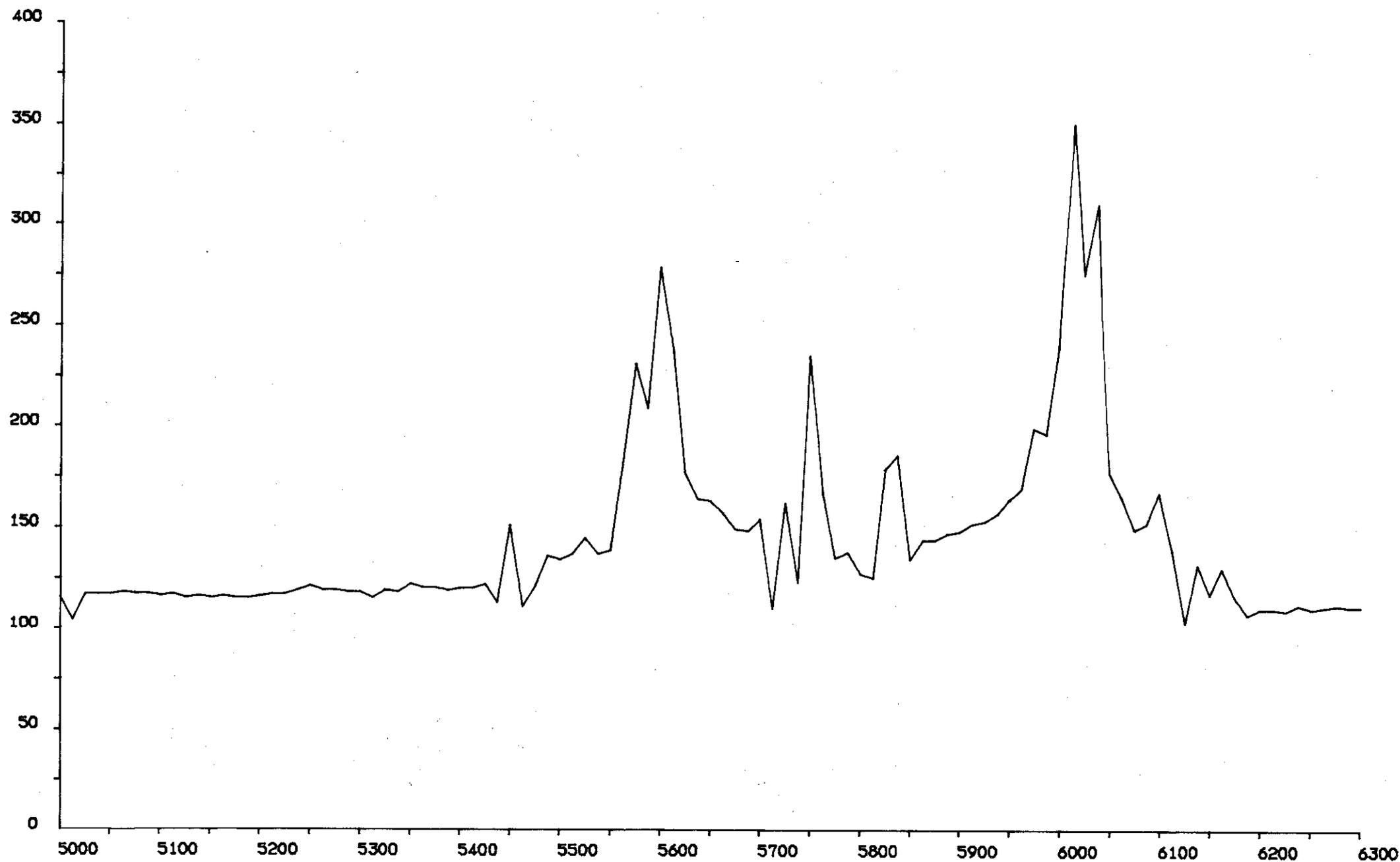
CRA EXPLORATION PTY. LIMITED

ROCKY CAPE EL1/77
RED ANOMALY
GEOCHEM. PROFILES

2273

REF. SK5-3	DRAWN DL.
SCALE 1:5000	REPORT No. 1374
AUTHOR J.W.	PLAN No. TASH 2404
DATE 20-12-1984	

RED ANOMALY GROUND MAGNETICS

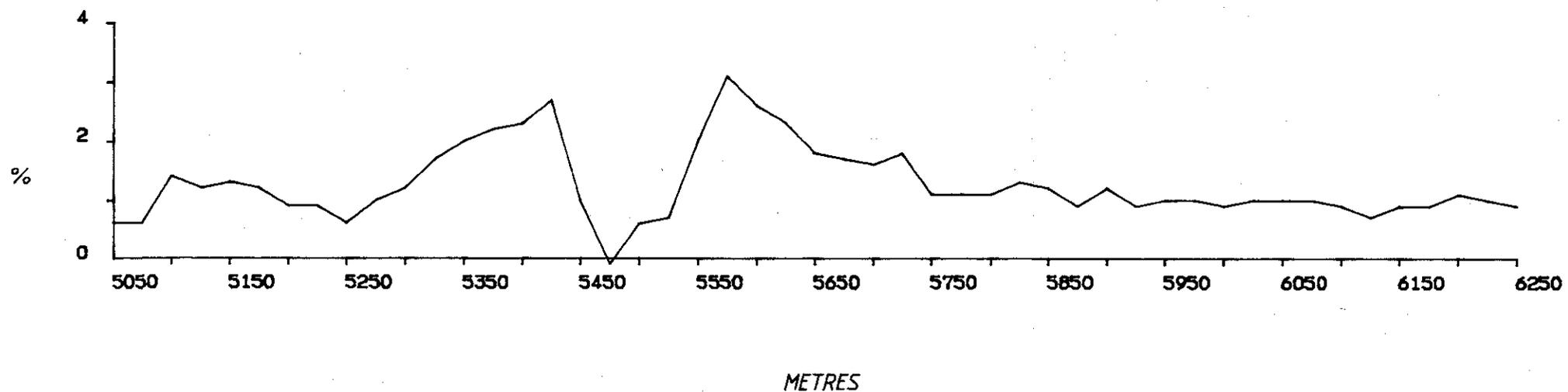
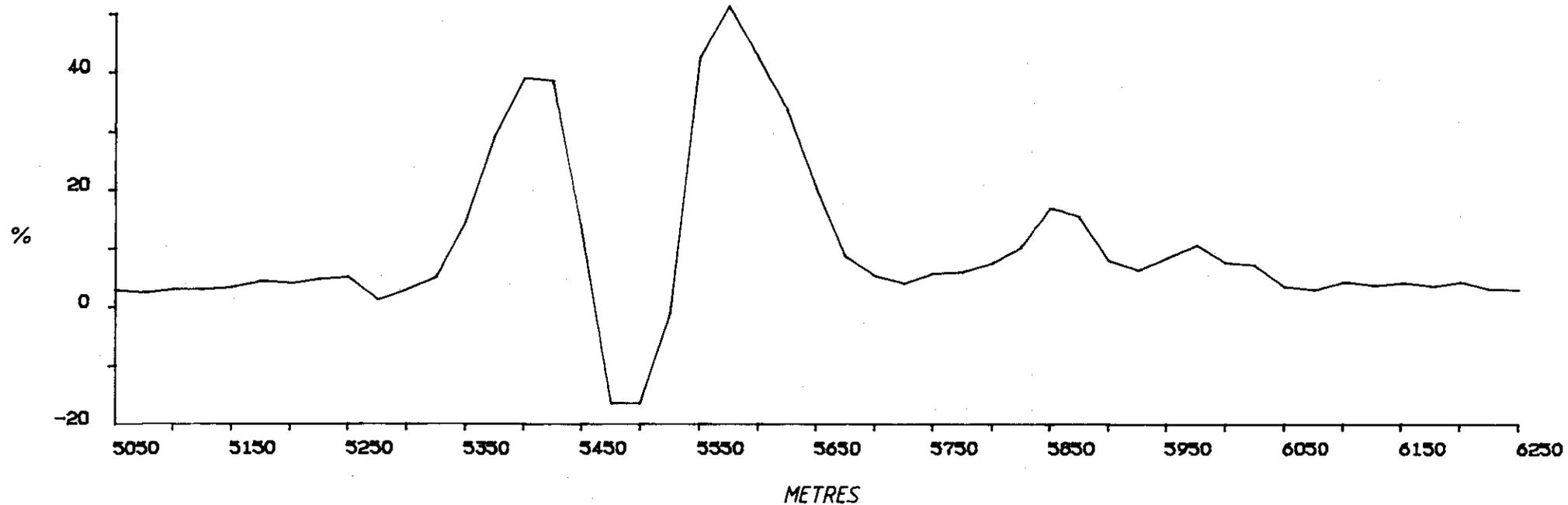


229327

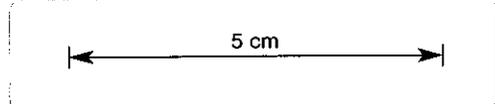
5 cm

CRA EXPLORATION PTY. LIMITED	
ROCKY CAPE EL1/77 RED ANOMALY GROUND MAGNETICS	
85-2336 (Vol 3/3)	2274
REF. SK55-3	
SCALE 1:5000	DRAWN T.v.S.
AUTHOR T.v.S.	REPORT No. 13114
DATE 21-12-1984	PLAN No. TASH 2420

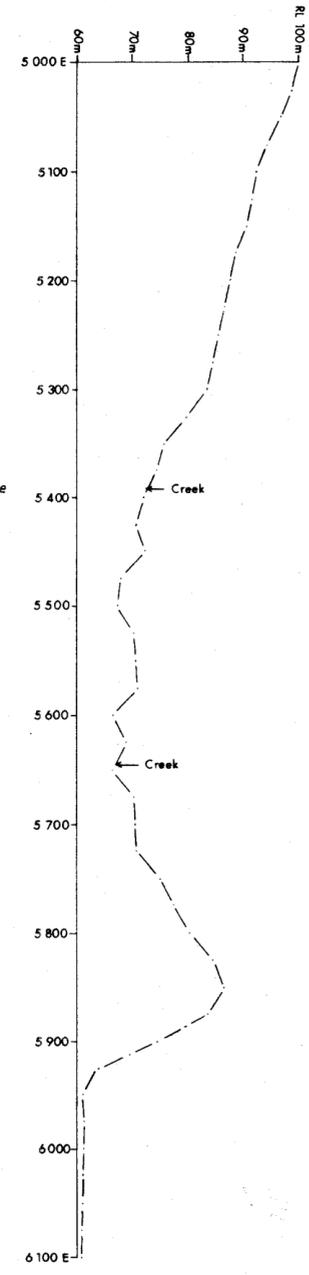
EM PROFILE OVER THE 'RED' PROSPECT



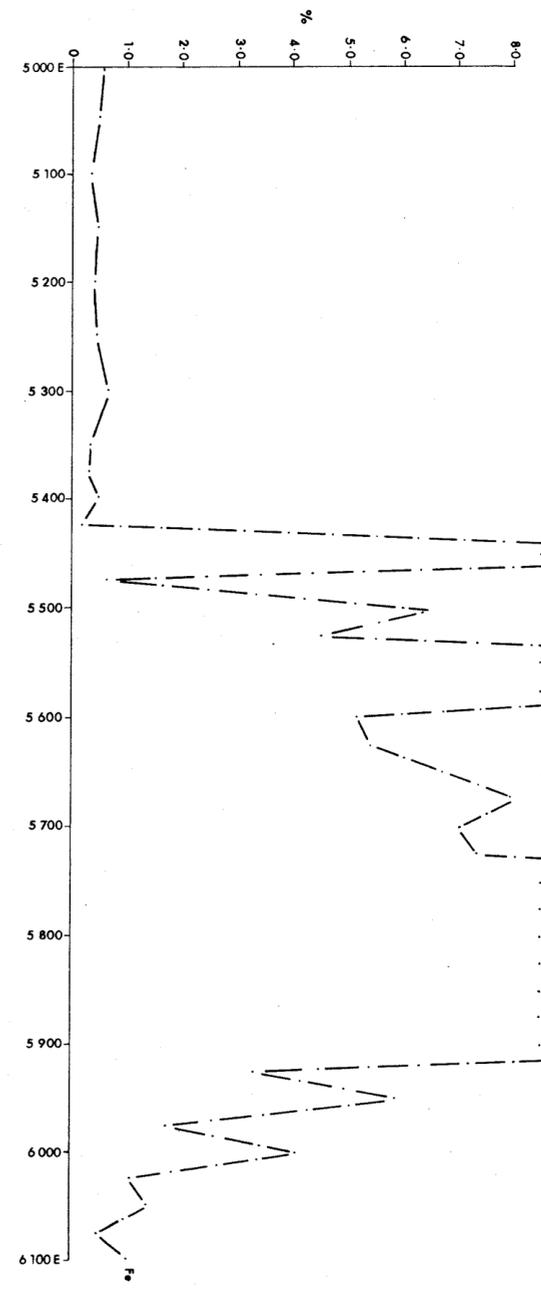
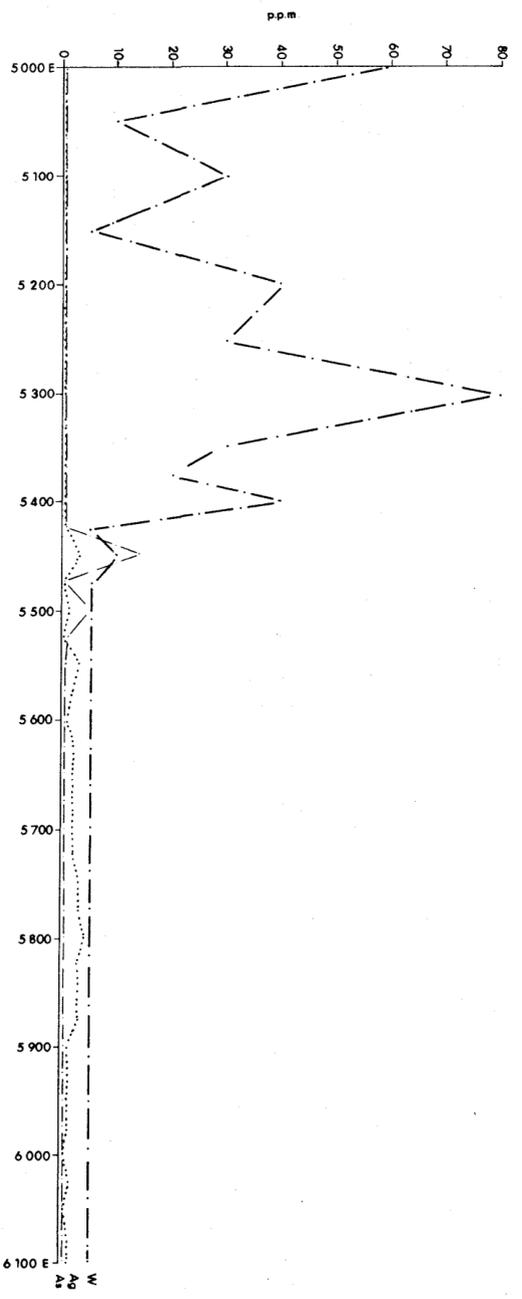
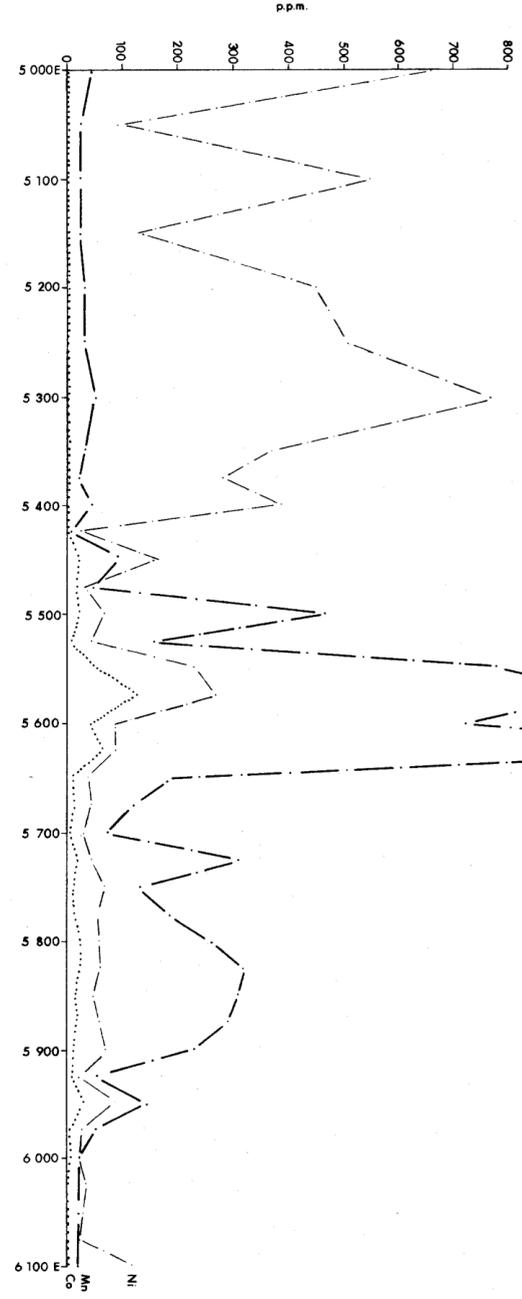
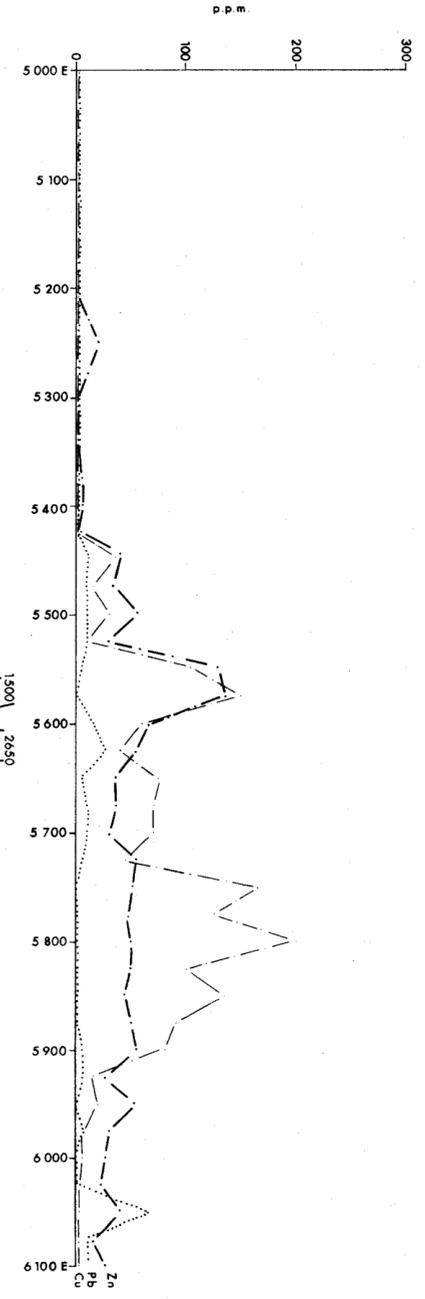
229328



CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE E.L. 1/77 RED ANOMALY GENIE PROFILES 2275 85-2336 (Vol 3/3)			
REF.	SK55 - 3		
SCALE	1 : 5000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	1314
DATE	23 - 11 - 1984	PLAN No.	TASh 2290



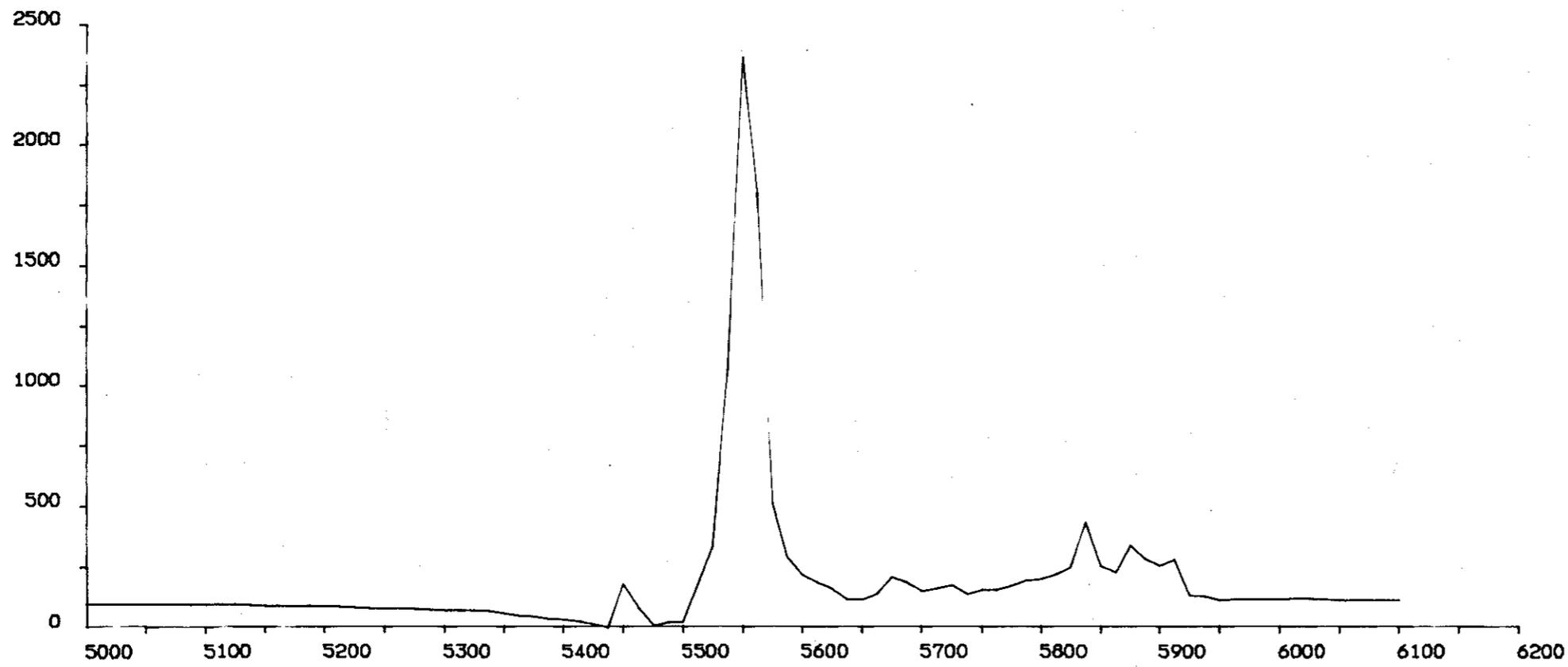
1141 553	grey-brown sandy soil	qtzite o/c
554	grey-brown sandy soil	angular qtzite-ssr frags
555	grey-brown sandy soil	angular qtzite-ssr frags
556	grey-brown sandy soil	angular qtzite frags
557	grey-brown sandy soil	angular qtzite frags
558	lt grey-brown sandy soil	angular qtzite frags
559	grey-brown sandy soil	angular qtzite frags white quartz float
1141 560	lt. grey-brown sandy soil	angular qtzite frags
561	lt. grey-brown sandy soil	angular qtzite frags
562	lt. grey sandy soil	1142 465 angular qtzite frags & possible chert/dolomite
563	lt. grey sandy soil	angular qtzite frags & possible chert/dolomite
564	red-brown clay	1142 466 chert float grey chert frags
565	grey-black sandy soil	1142 467 grey dol. with silchert replacement grey-white chert frags chert float
566	red-yellow clay	1142 468 red mudstone/shale frags laterite? basalt remnant?
567	yel. -brown clay	1142 469 grey mudstone float
568	dk. red-brown clay	massive goethite-limonite float
569	red-brown clay	1142 470 v. weathered basalt float basalt frags
1141 570	yel-brown clay	1142 471 pinkish-purp laminated tuffaceous? mudstone dk. green mudstone outcrop
571	yel-brown clay	1142 472 khaki mudstone float
572	yell-or. clay	1142 473 bl lam. mudstone o/c
573	yel-or. clay	bl lam mudstone subcrop & float
574	yel-or. clay	
575	yell or. clay	1142 474 massive? grey tuffaceous sltst grey tuff. sltst? basalt
576	or.-yell clay	
577	or.-yell clay	pisolitic? frags
578	or.-yell-brown clay	
579	or.-yell-brown clay	1142 475 grn-red earthy textured tuffaceous mudstone?
1141 580	purple-brown clay	
581	dk. red-brown clay	1142 476 or. f. lam mudstone float
582	red-brown clay	m.g. lam. tuff mudstone float & frags
583	pale yell-buff clay	ferrug pisolitic? frags
584	pale yell-buff clayey sand	pisolitic? ferrug frags, - Mn rich
585	pale yell-buff clayey sand	ferrug mudstone frags.
586	pale yell-buff clayey sand	
587	pale yell-buff clayey sand	quartz frags.
588	pale buff-yell clayey sand	quartz frags.
589	lt. buff sandy soil	
1141 590	buff-grey sandy soil	



5 cm

229329
CRA EXPLORATION PTY. LIMITED
ROCKY CAPE ELI/77
WHITE ANOMALY
GEOCHEM. PROFILES
2276
REF: SKS5-3
SCALE: 1:5000
AUTHOR: J.W.
DATE: 20-12-1984
DRAWN: D.L.
REPORT NO.: 1314
PLAN NO.: TASH 2405

NORTH ARTHUR: WHITE ANOMALY GROUND MAGNETICS

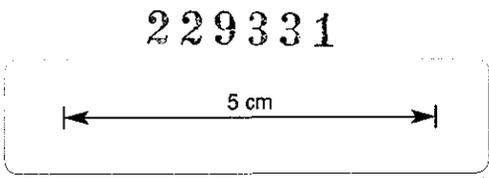
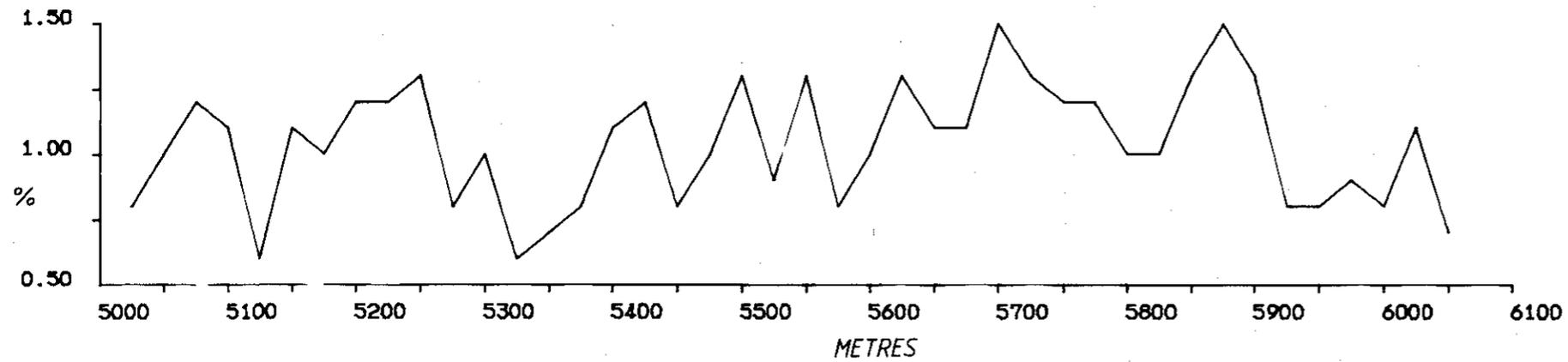
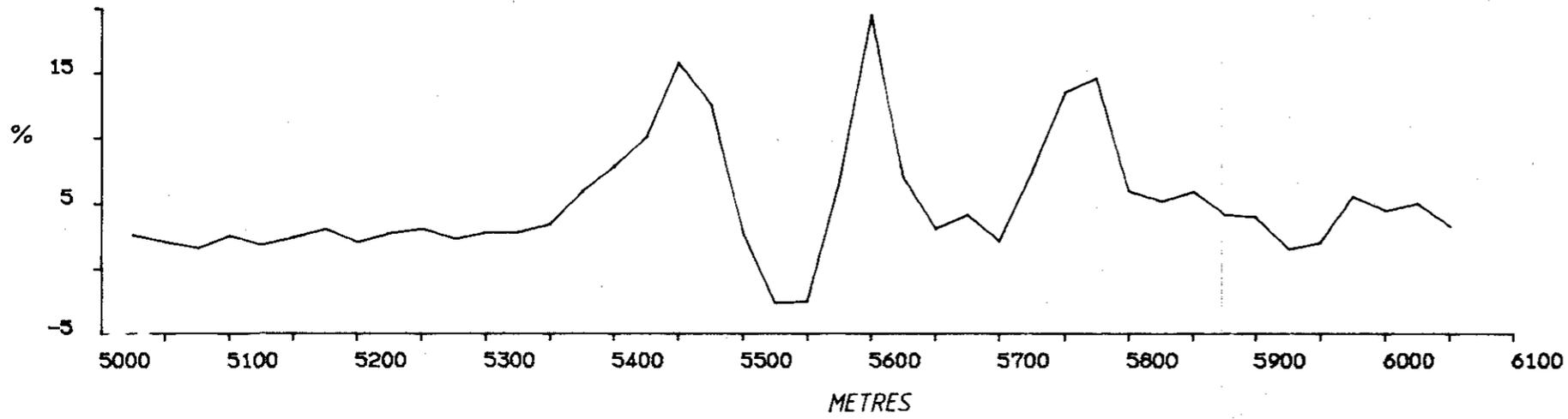


229330

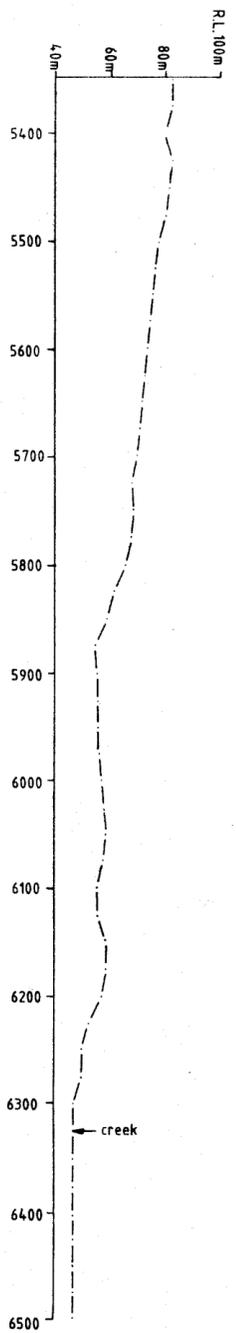
5 cm

CRA EXPLORATION PTY. LIMITED	
ROCKY CAPE EL1/77 WHITE ANOMALY GROUND MAGNETICS	
85-2336 (Vol 2/3)	2277
REF.	SK55-3
SCALE	1:5000
AUTHOR	T.v.S.
DATE	21-12-1984
DRAWN	T.v.S.
REPORT No.	13114
PLAN No.	TASh 2422

NORTH ARTHUR: WHITE ANOMALY EM

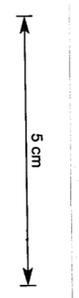
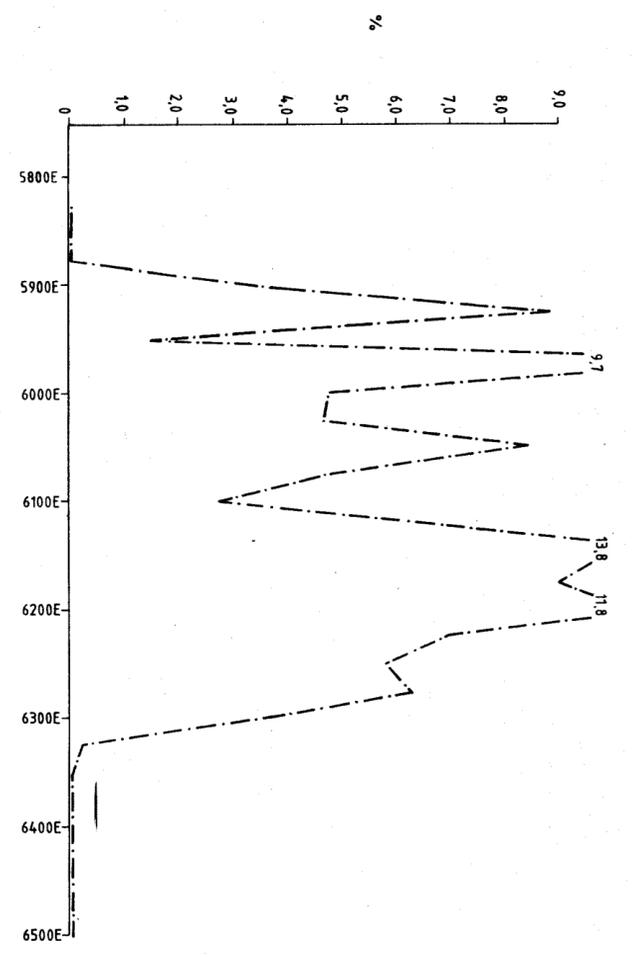
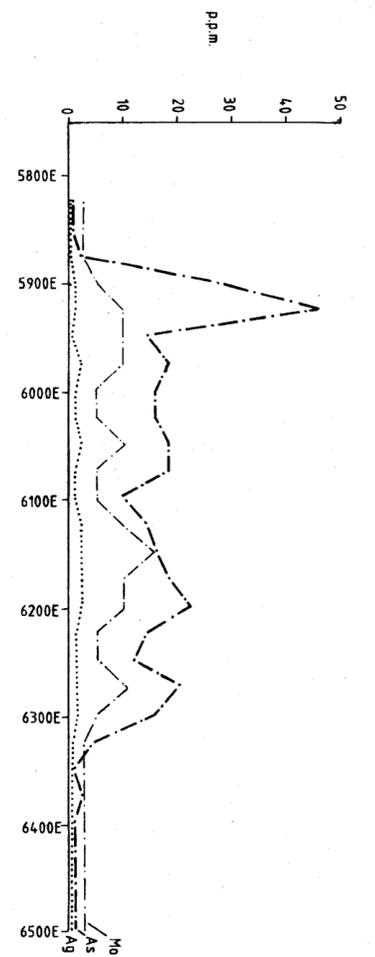
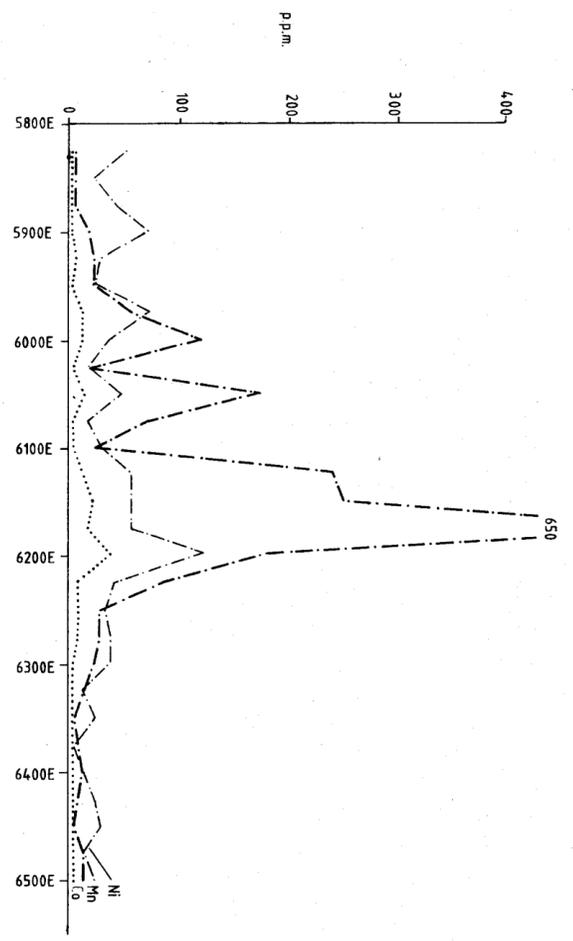
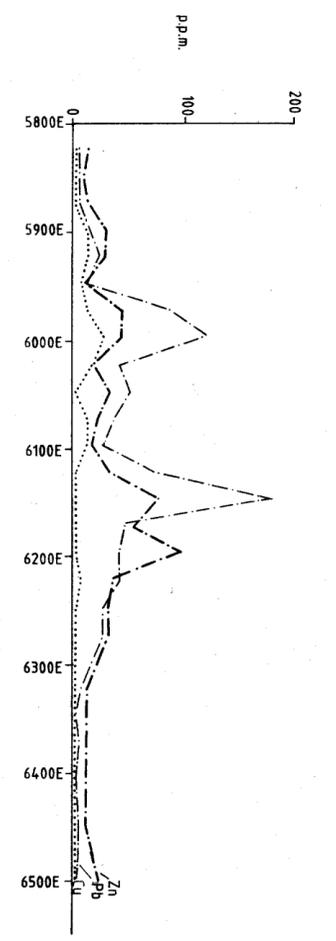


CRA EXPLORATION PTY. LIMITED	
ROCKY CAPE E.L. 1/77 WHITE ANOMALY GENIE PROFILES	
85-2326 (Vol 3/3)	2278
REF. SK55 - 3	
SCALE 1 : 5000	DRAWN T.v.S.
AUTHOR T.v.S.	REPORT No. 13114
DATE 23 - 11 - 1984	PLAN No. TASH 2292



- white quartzite %
- 114.2555 white quartzite
- quartzite fragments
- quartzite fragments
- chert fragments
- chert float
- siltstone
- siltstone
- siltstone
- siltstone, finely laminated
- ferricrete
- 114.2556 ferricrete
- scoriaceous basalt subcrop
- scoriaceous basalt float
- ferricrete
- siltstone, tuffaceous?
- siliceous ferricrete?
- ferricrete
- angular quartz
- angular quartz

- 114.1931 grey sandy soil
- 932 grey sandy soil
- 933 grey sandy soil
- 934 greyish brown sandy clay
- 935 buff brown clay
- 936 lt. buff-yellow clay
- 937 or.-brown clay
- 938 lt. yellow-buff clay
- 939 lt. or.-buff clay
- 940 or.-brown clay
- 941 lt. or.-buff clay
- 942 lt. yellow-buff clay
- 943 or.-brown clay
- 944 red-brown clay
- 945 buff-brown clay
- 946 lt. or.-brown clay
- 947 lt. or.-brown clay
- 948 buff-brown clay
- 949 brown clays, greyish
- 950 brown clays
- 951 whitish brown sand
- 952 grey sandy soil
- 953 grey-brown sand
- 954 grey-brown sand
- 955 grey-brown sand
- 956 grey-brown sand
- 957 grey-brown sand
- 958 grey-brown sand



229332

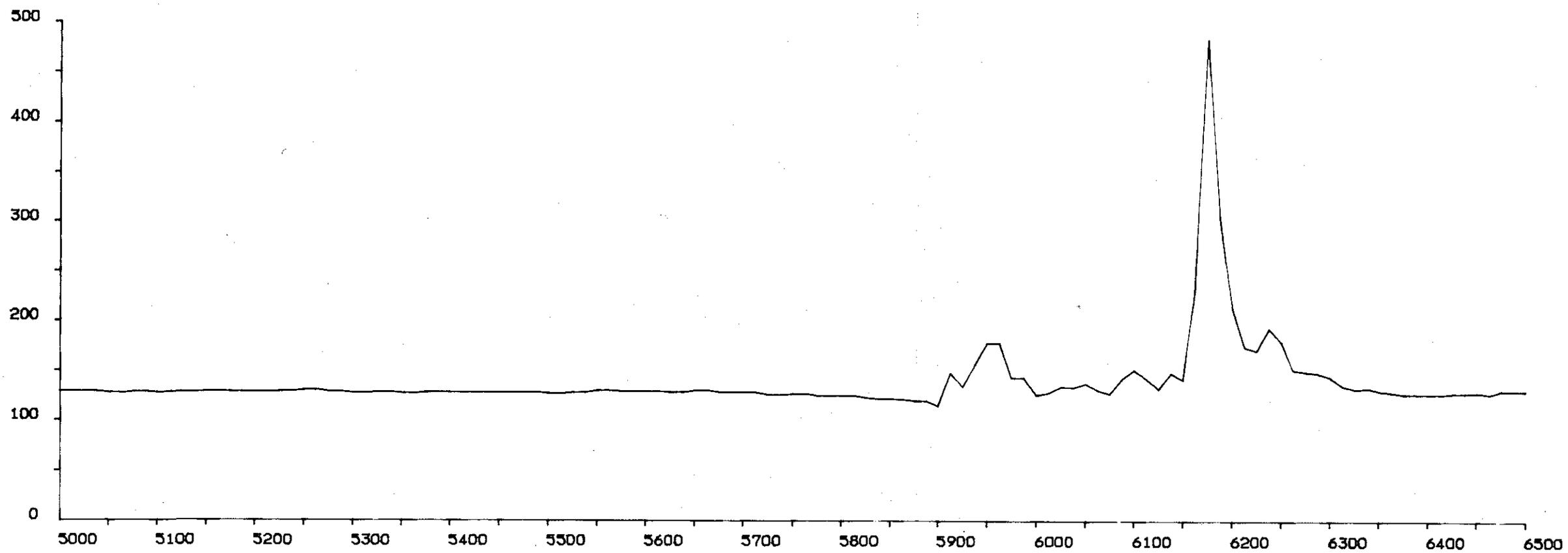
CRA EXPLORATION PTY. LIMITED

ROCKY CAPE EL1777
RUBY ANOMALY
GEOCHEM. PROFILES

REF. SK55-3	DRAWN M.D.
SCALE 1:5000	REPORT No. 2279
AUTHOR J.W.	PLAN No. TASH 2410
DATE 20-12-1984	

85-2326 (1 of 3) (3)

NORTH ARTHUR: RUBY ANOMALY GROUND MAGNETICS



229333

CRA EXPLORATION PTY. LIMITED

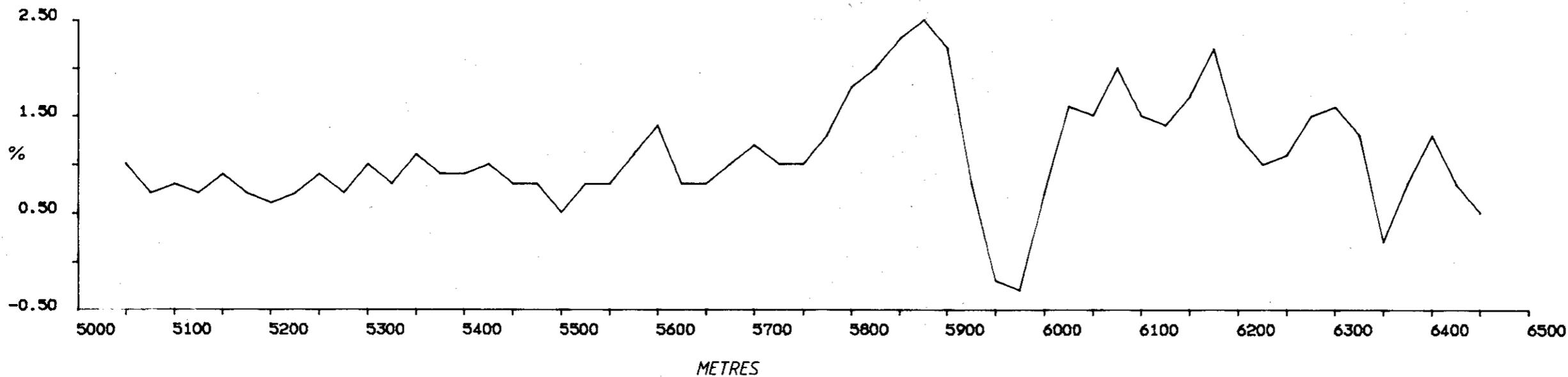
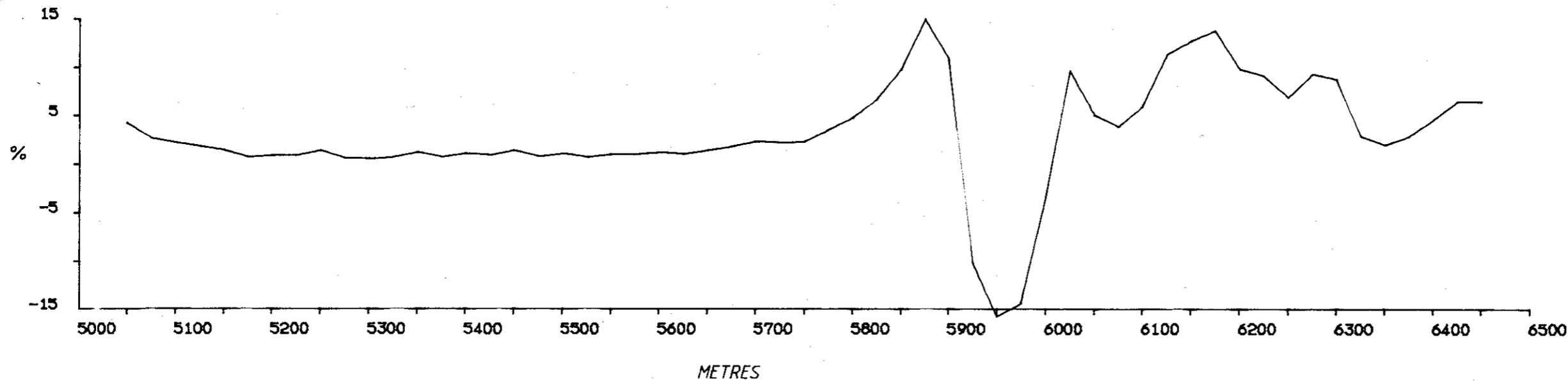
ROCKY CAPE EL1/77
 RUBY ANOMALY
 GROUND MAGNETICS 2280

85-2336 (101318)

REF.	SK55-3	
SCALE	1:5000	DRAWN T.v.S.
AUTHOR	T.v.S.	REPORT No. 13114
DATE	21-12-1984	PLAN No. TASH 2421

5 cm

NORTH ARTHUR: RUBY ANOMALY EM



229334

CRA EXPLORATION PTY. LIMITED

ROCKY CAPE E.L. 1/77
RUBY ANOMALY
GENIE PROFILES 2281

85-2326 (Vol 3/3)

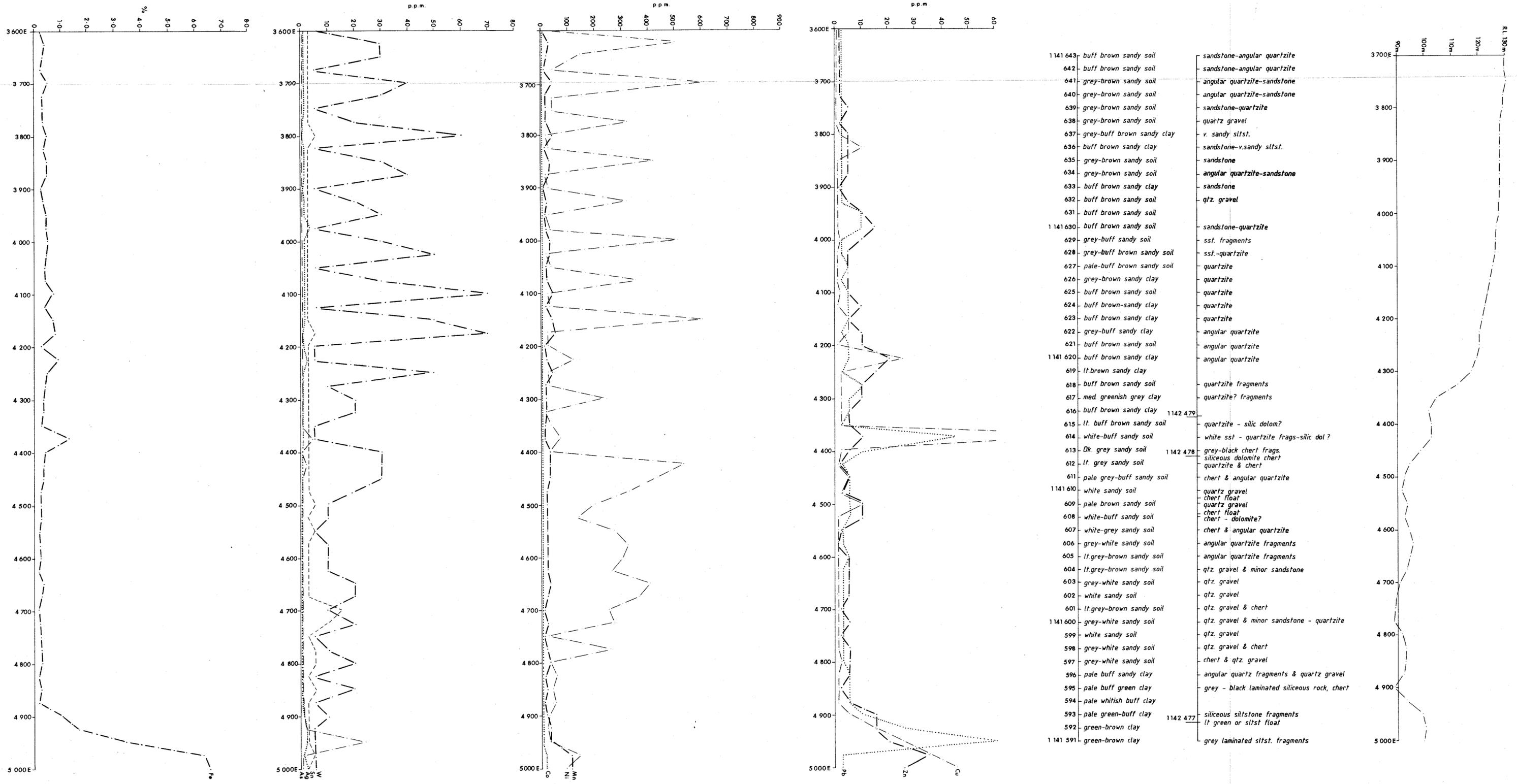
REF.	SK55 - 3	DRAWN	T.v.S.
SCALE	1 : 5000	REPORT No.	13114
AUTHOR	T.v.S.	PLAN No.	TASh 2291
DATE	23 - 11 - 1984		

5 cm

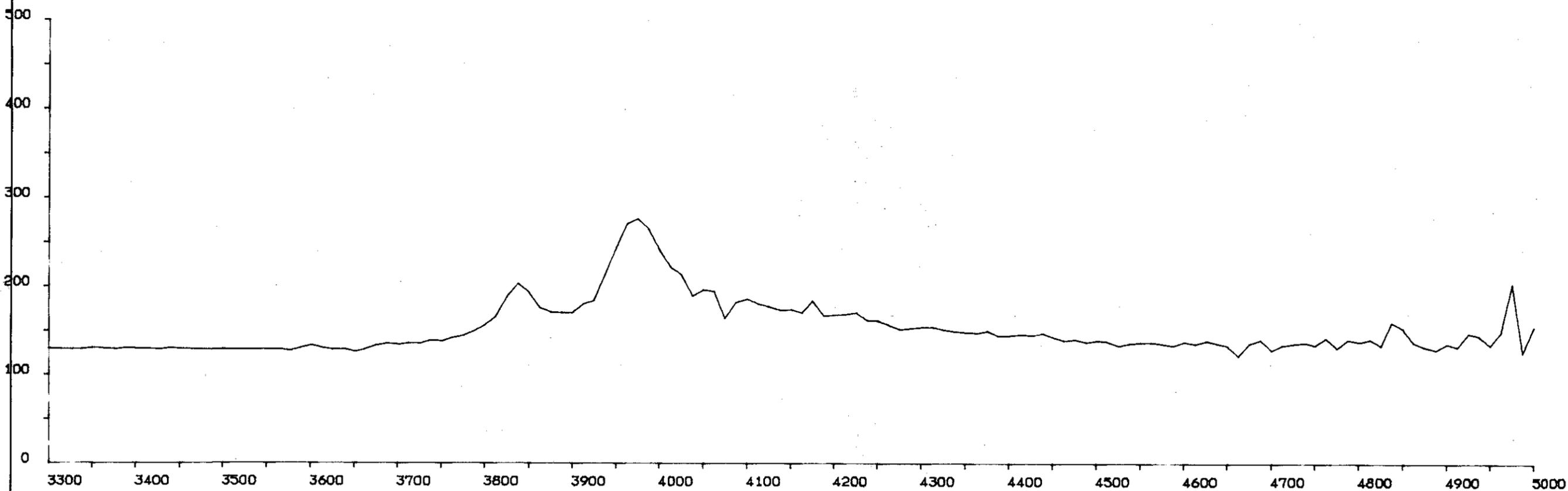
5 cm

229335

CRA EXPLORATION PTY. LIMITED	
ROCKY CAPE EL1/77	
ELECTRIC BLUE ANOMALY	
GEOCHEM PROFILES	
REF. SK55-3	2282
SCALE 1:5000	
AUTHOR J.W.	REPORT NO. 1314
DATE 20-12-1984	PLAN NO. TASH 2407
DRAWN D.L.	



NORTH ARTHUR: ELECTRIC BLUE ANOMALY GROUND MAGNETICS



229336

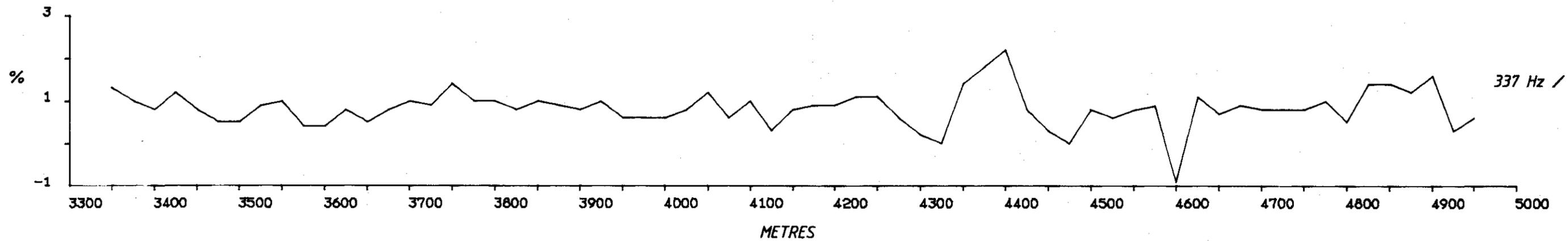
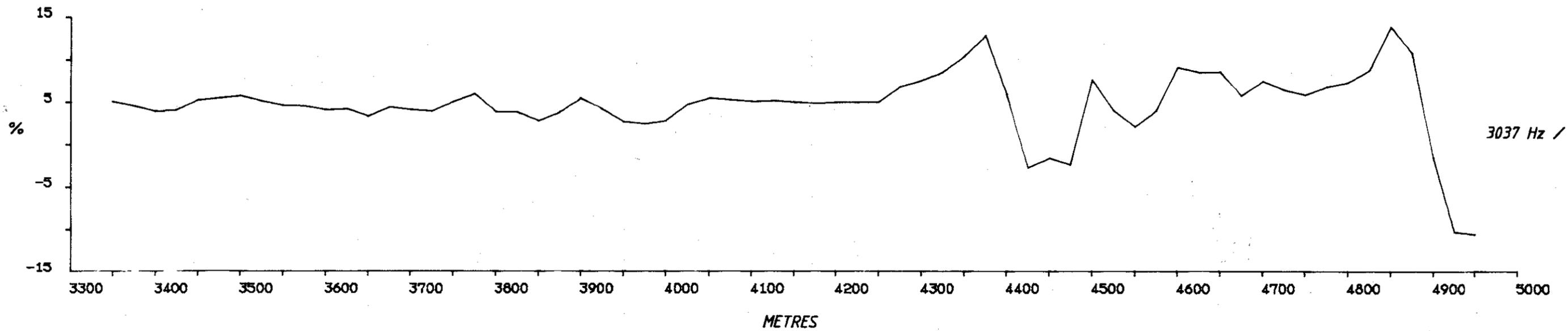
CRA EXPLORATION PTY. LIMITED

ROCKY CAPE EL1/77
ELECTRIC BLUE ANOMALY
GROUND MAGNETICS 2283
85-2336 (Vol 3/3)

REF.	SK55-3		
SCALE	1:5000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	1314
DATE	21-12-1984	PLAN No.	TASh 2424

↔ 5 cm ↔

NORTH ARTHUR: ELECTRIC BLUE ANOMALY EM



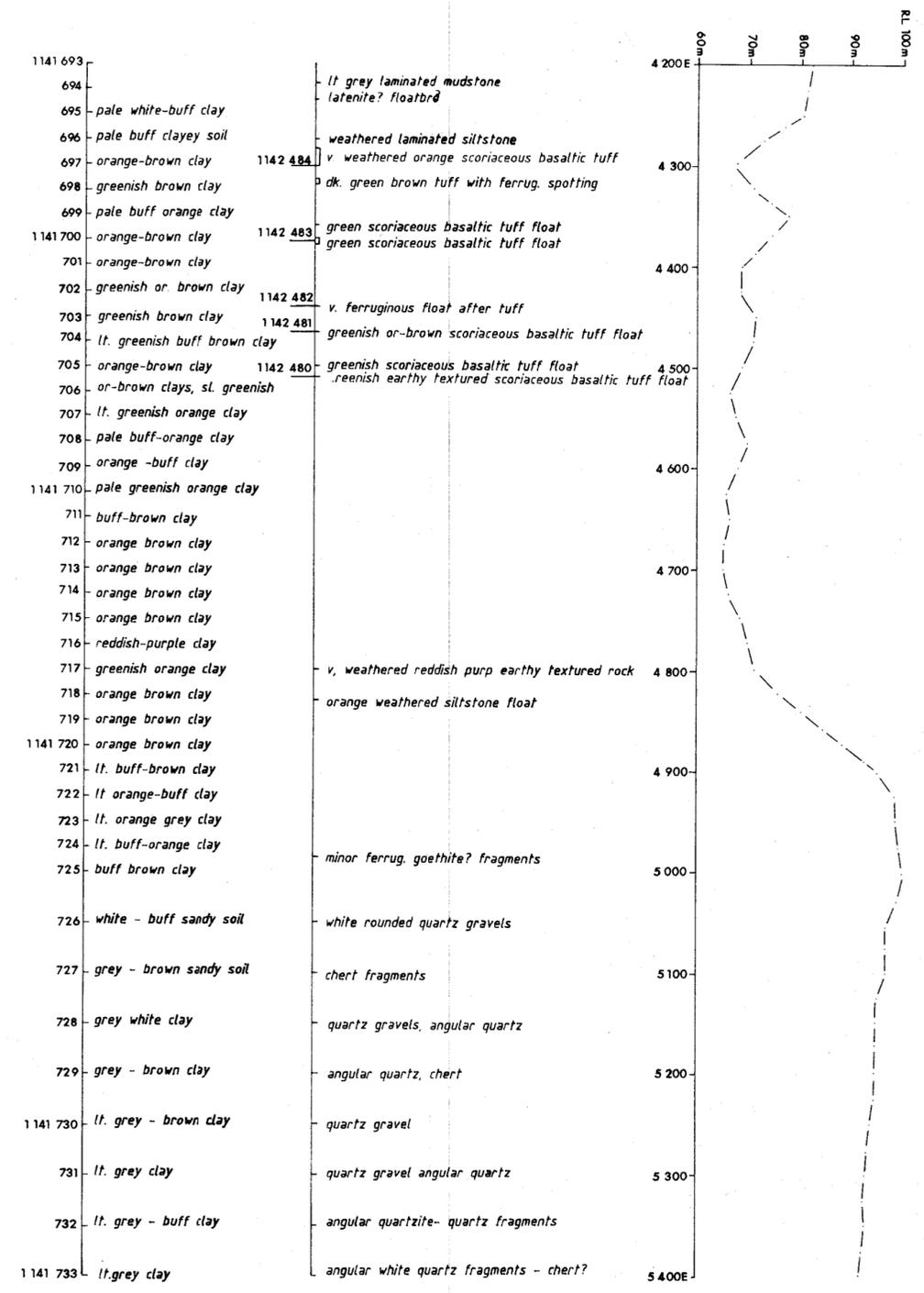
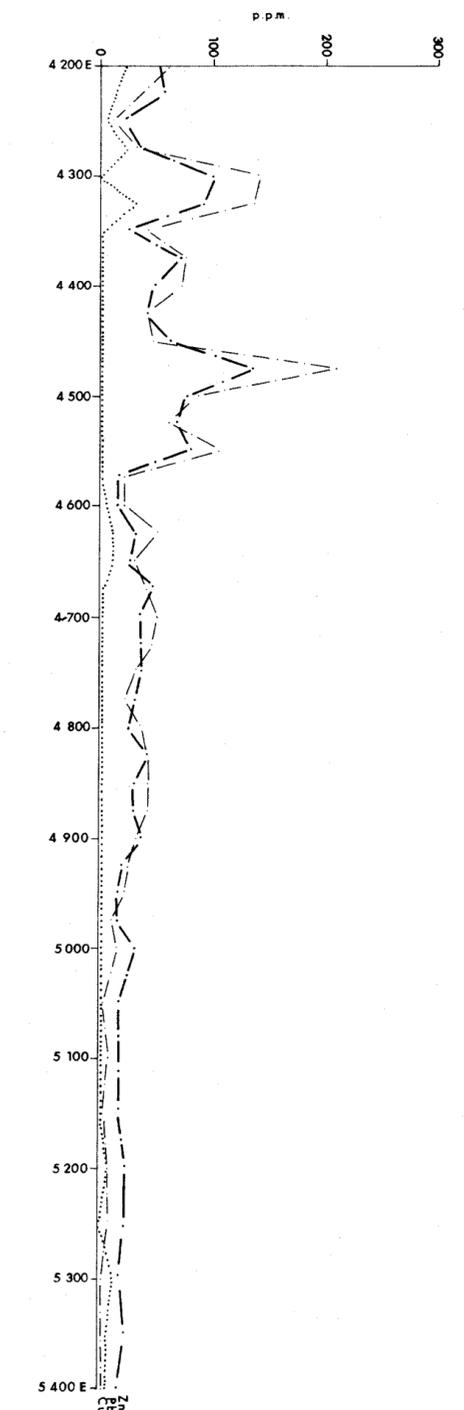
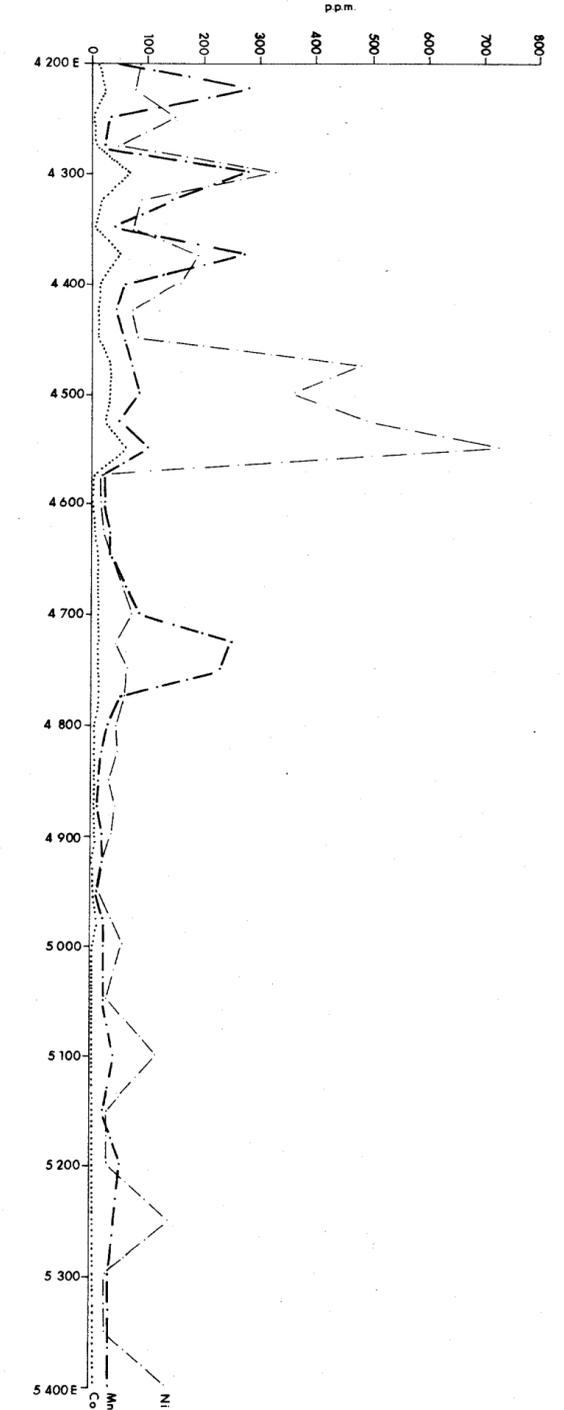
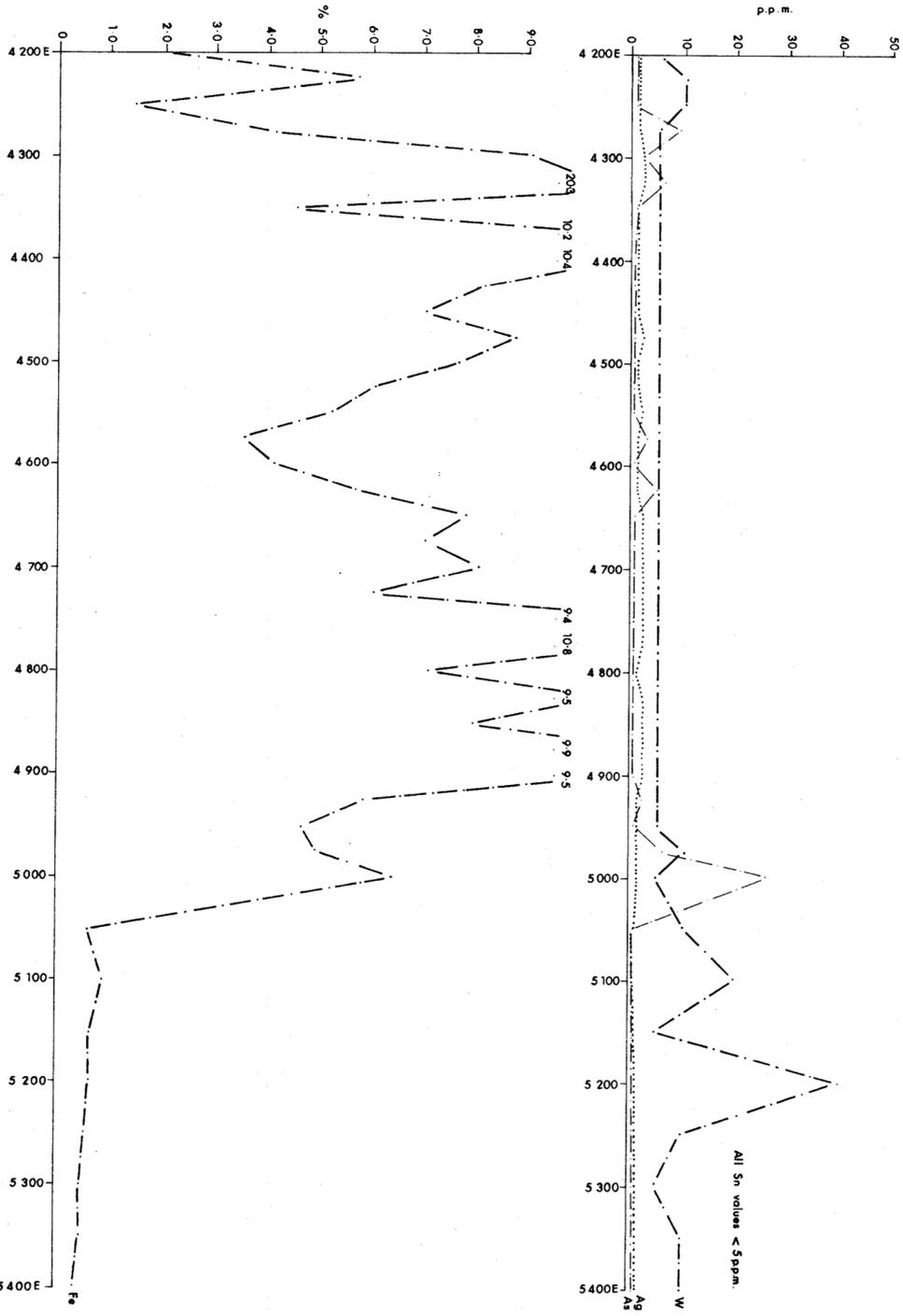
229337

5 cm

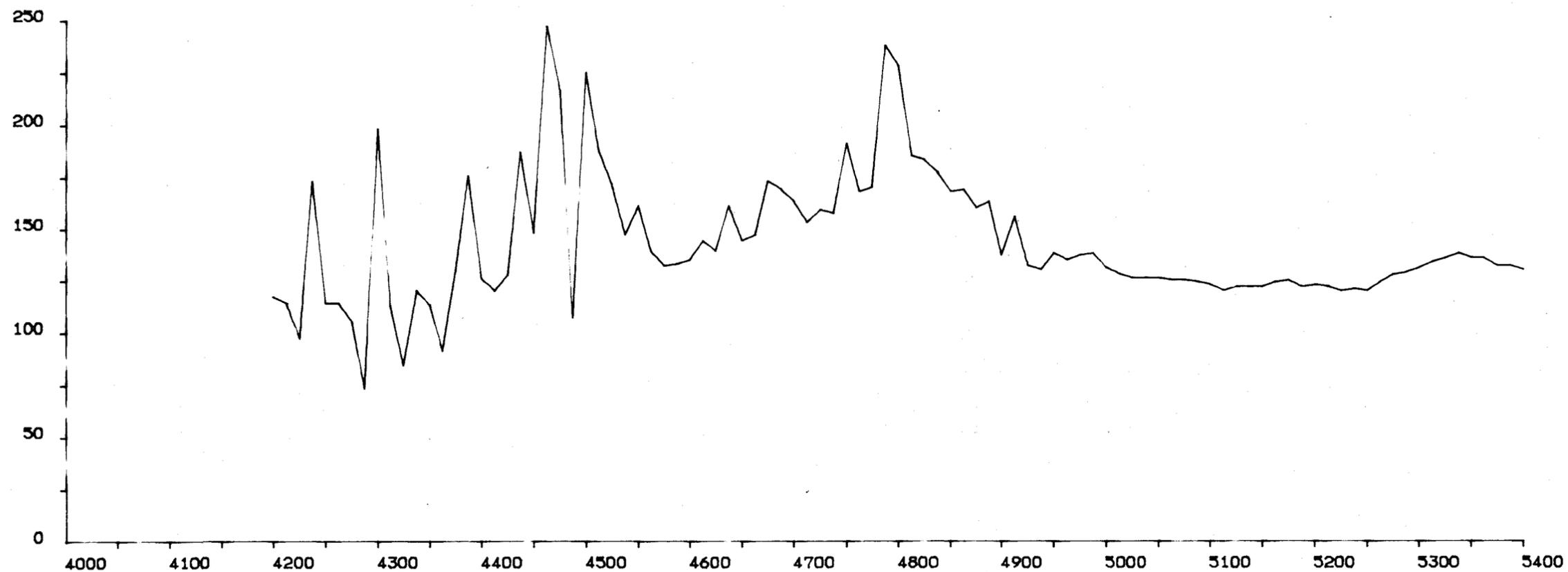
CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE E.L. 1/77			
ELECTRIC BLUE ANOMALY			
GENIE PROFILES 2284			
85-2336 (Vol 3B)			
REF.	SK55 - 3		
SCALE	1 : 5000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	1314
DATE	23 - 11 - 1984	PLAN No.	TASh 2294



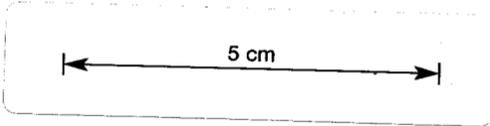
CRA EXPLORATION PTY. LIMITED
 229338
 ROCKY CAPE E11/77
 ROSE BLUE ANOMALY
 GEOCHEM. PROFILES
 REF: SK55-3
 SCALE: 1:5000
 AUTHOR: J.W.
 DATE: 20-12-1984
 DRAWN: D.L.
 REPORT NO.: 1314
 PLAN NO.: TASH 2408
 2285
 C101 (3)



NORTH ARTHUR: ROSE BLUE ANOMALY GROUND MAGNETICS

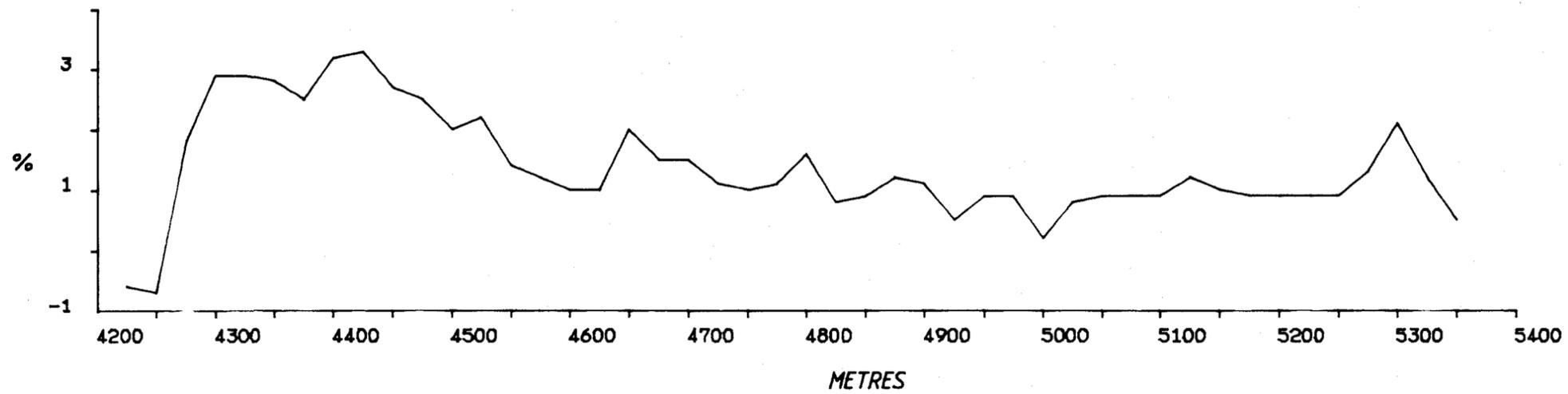
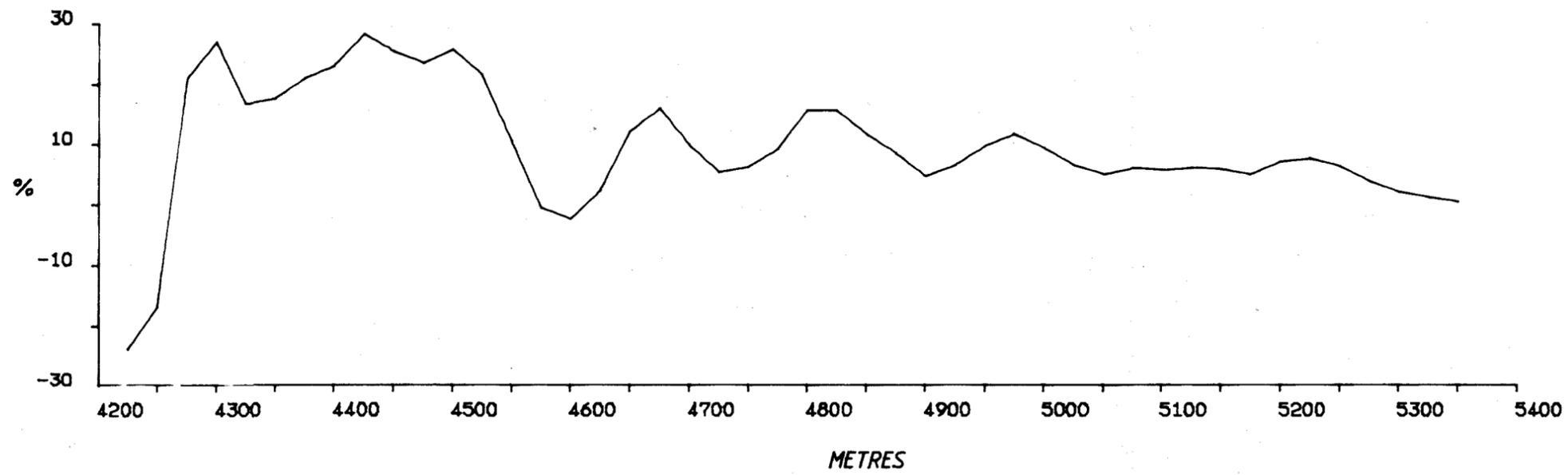


229339

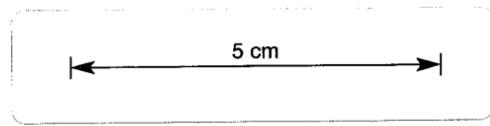


CRA EXPLORATION PTY. LIMITED	
ROCKY CAPE EL1/77	
ROSE BLUE ANOMALY	2286
GROUND MAGNETICS	
85-2226 (Vol 3/3)	
REF.	SK55-3
SCALE	1:5000
DRAWN	T.v.S.
AUTHOR	T.v.S.
REPORT No.	13114
DATE	21-12-1984
PLAN No.	TASH 2425

NORTH ARTHUR, ROSE BLUE ANOMALY EM

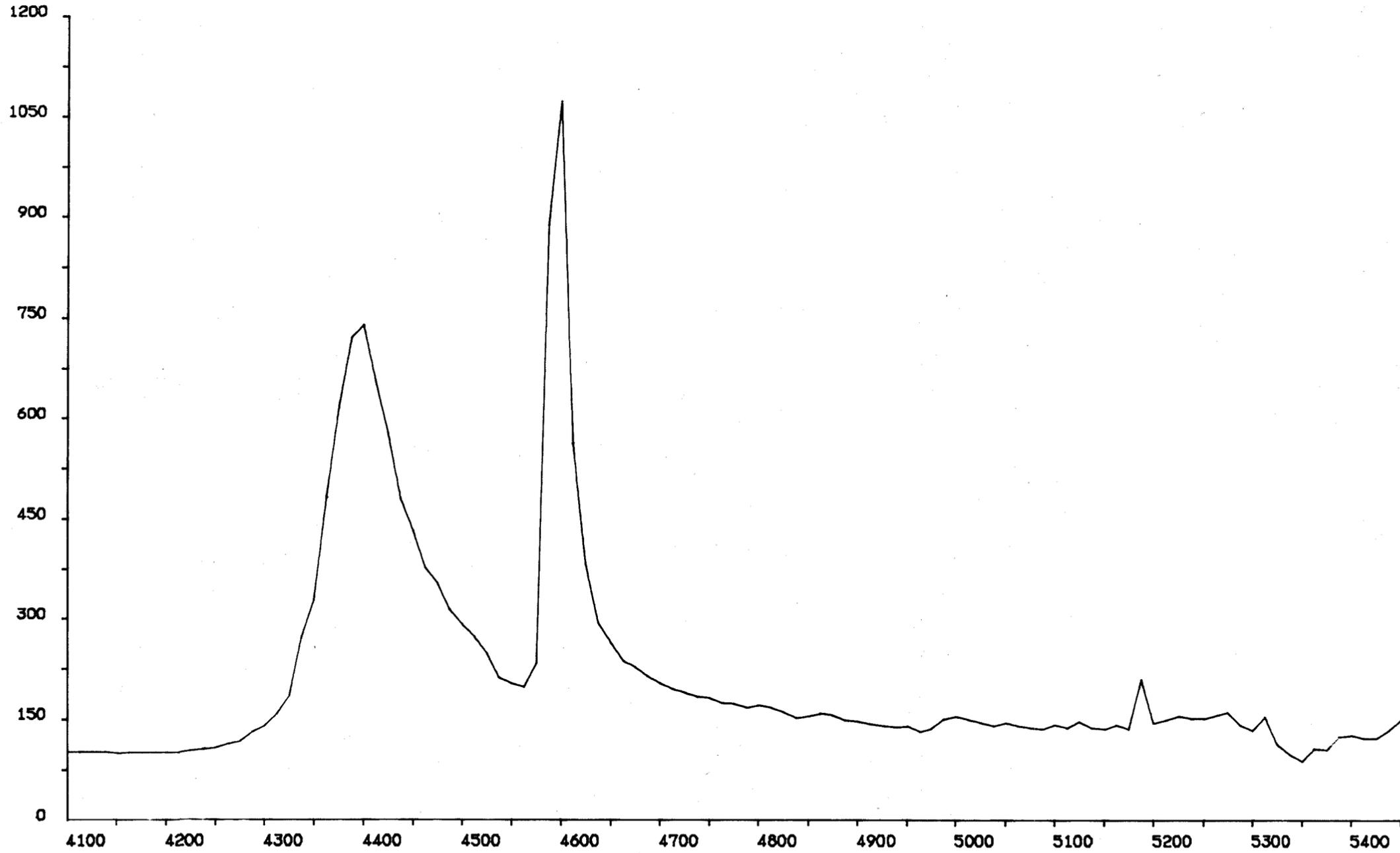


229340



CRA EXPLORATION PTY. LIMITED	
ROCKY CAPE E.L. 1/77 ROSE BLUE ANOMALY GENIE PROFILES 2287 85-2326 Vol 3/3.	
REF.	SK55 - 3
SCALE	1 : 5000
AUTHOR	T.v.S.
DATE	23 - 11 - 1984
DRAWN	T.v.S.
REPORT No.	13114
PLAN No.	TASh 2295

GREEN ANOMALY GROUND MAGNETICS

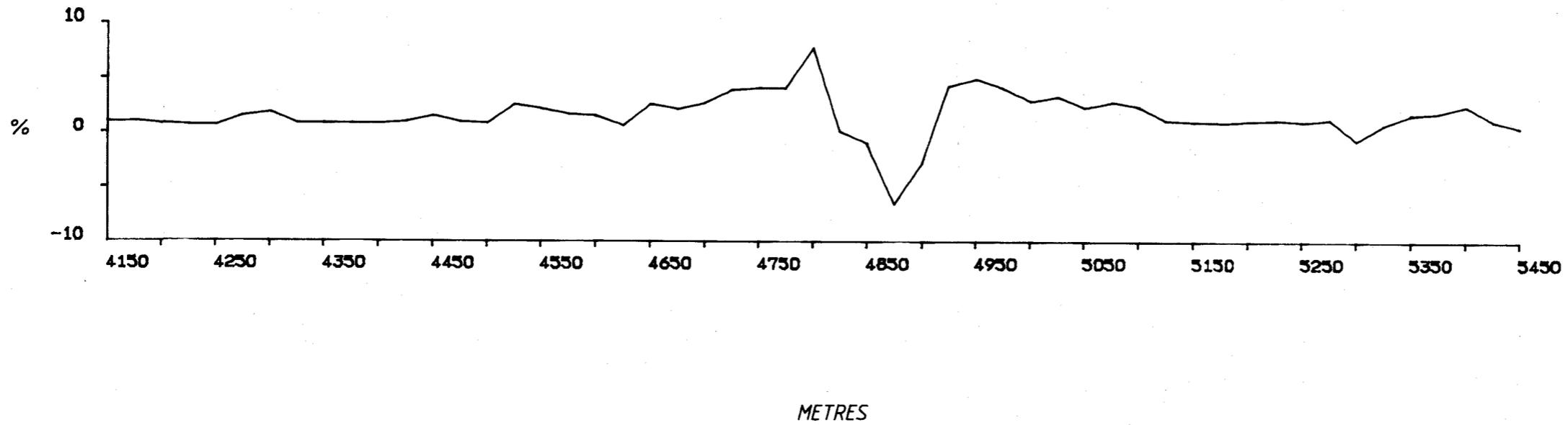
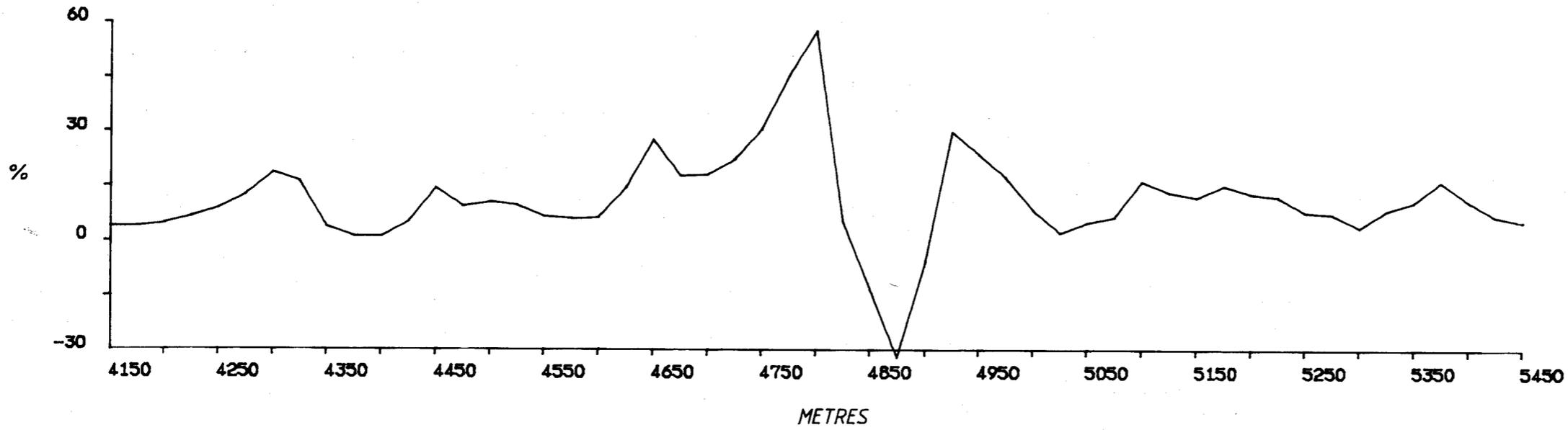


229342

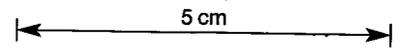
5 cm

CRA EXPLORATION PTY. LIMITED	
ROCKY CAPE EL1/77	
5500 GREEN ANOMALY	
GROUND MAGNETICS 2289	
85-2336 Vol 3(3)	
REF.	SK55-3
SCALE	1:5000
DRAWN	T.v.S.
AUTHOR	T.v.S.
REPORT No.	13114
DATE	21-12-1984
PLAN No.	TASH 2423

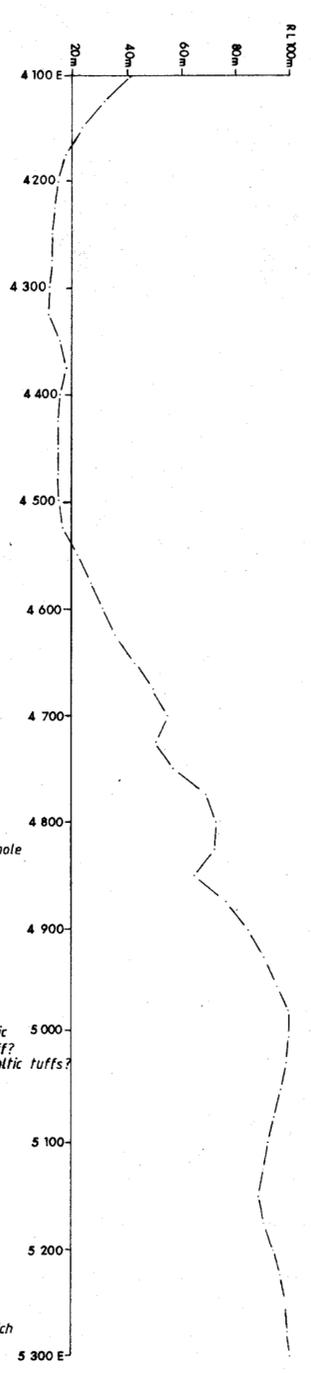
EM PROFILE OVER THE 'GREEN' PROSPECT



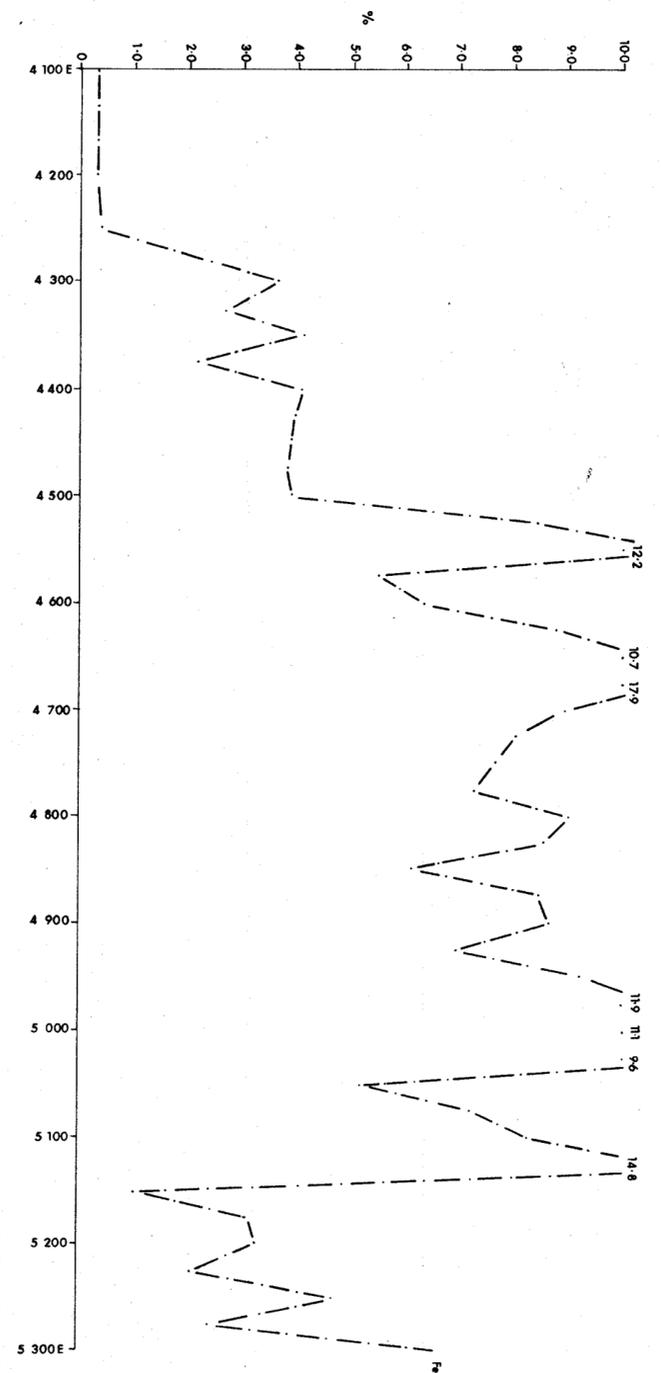
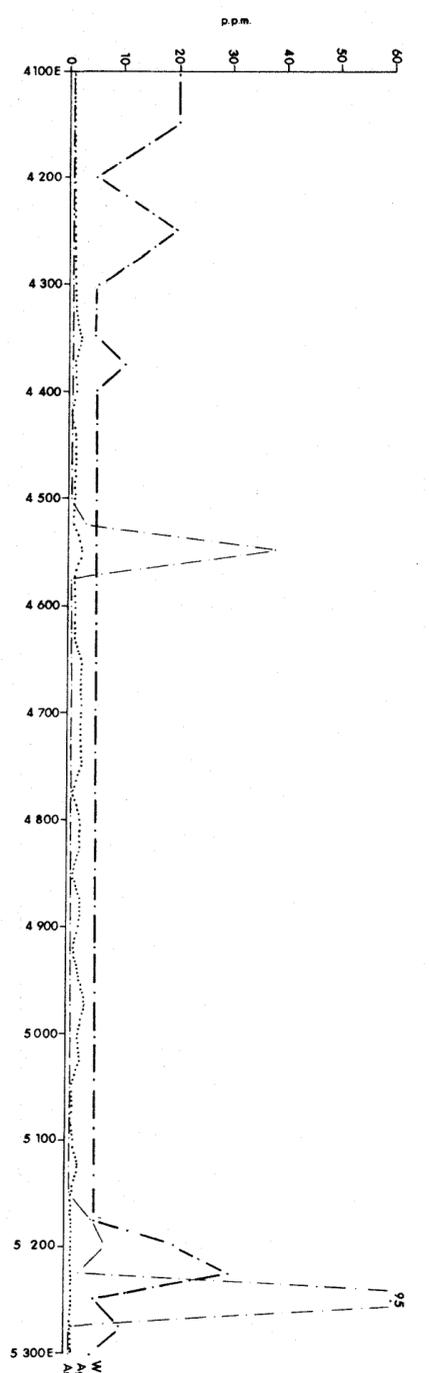
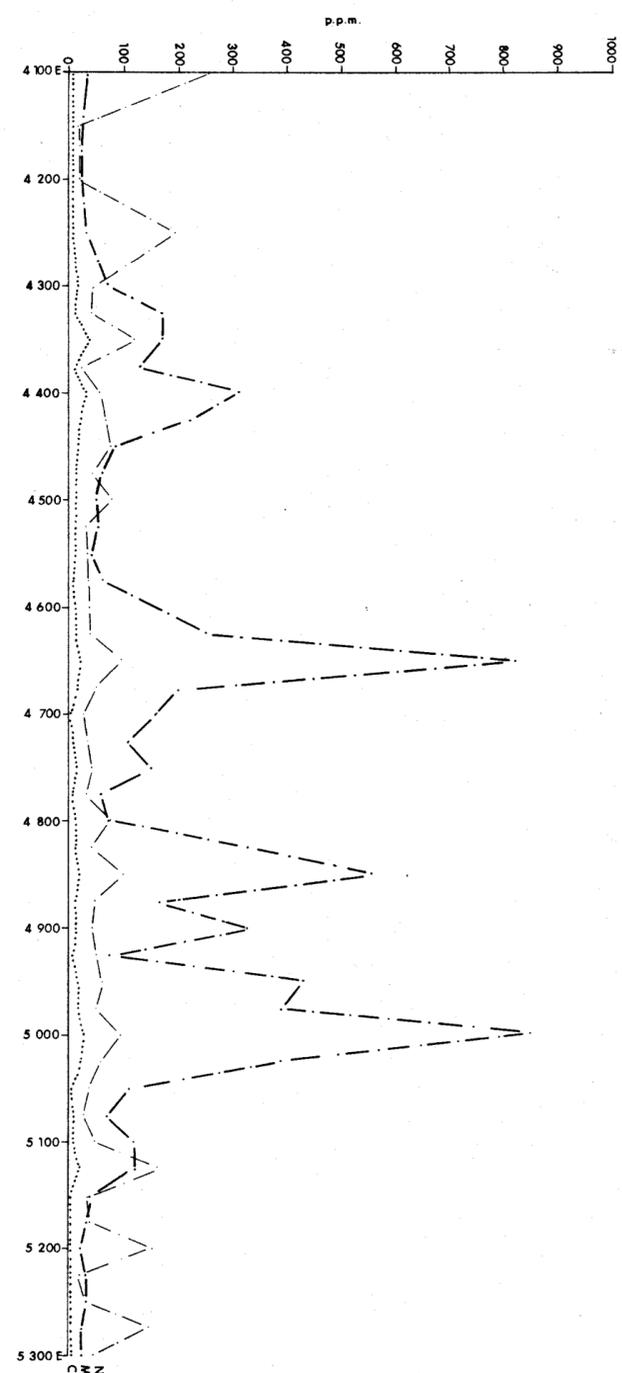
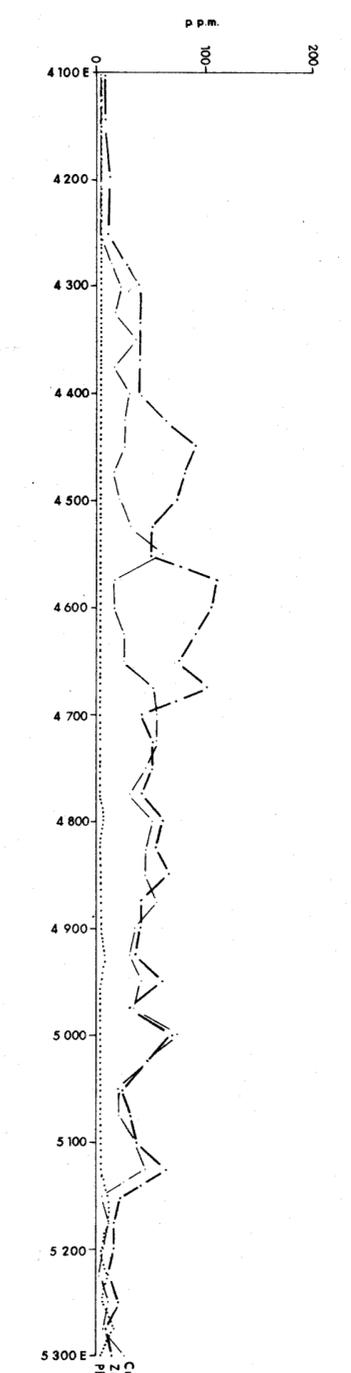
229343



CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE E.L. 1/77 GREEN ANOMALY GENIE PROFILES 2290 85-2336 (Vol 3/3)			
REF.	SK55 - 3		
SCALE	1 : 5000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	13114
DATE	23 - 11 - 1984	PLAN No.	TASh 2293



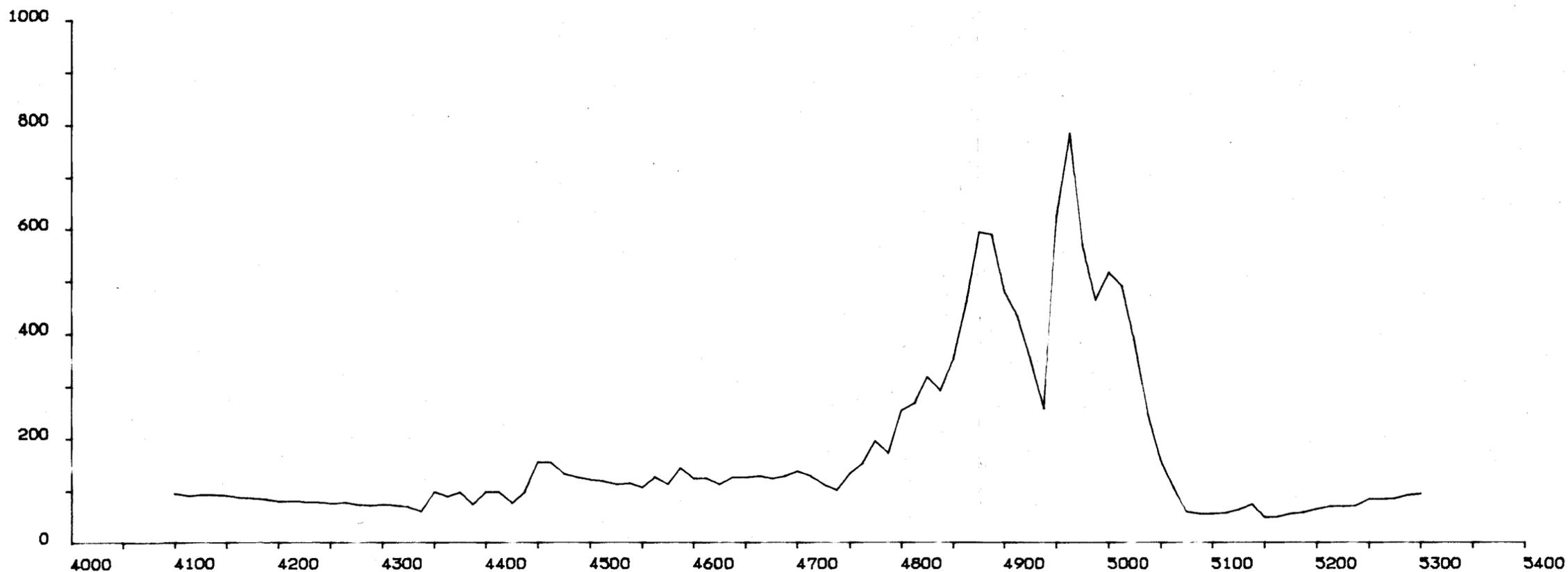
- 1141 692 f.g dolomite float
- 691 lt. grey sandy soil quartz & dolomite fragments
- 690 lt. grey sandy soil quartz & dolomite fragments
- 689 lt. grey-brown sandy soil dolomite fragments
- 688 lt. brown clay quartz & pisolitic fragments
- 687 greenish brown clay pisolitic fragments
- 686 lt. buff-or clay dolomite o/c
- 685 pale grey-buff sandy clay dolomite o/c
- 684 lt. buff-brown clay pisolitic fragments
- 683 lt. or-buff-brown clay pisolitic fragments
- 682 lt. or-buff clay
- 681 lt. greenish brown clay
- 1141 680 greenish brown clay quartz fragments
- 679 or-brown clay rounded white quartz gravels. sltst.
- 678 or-brown clay
- 677 dk. red-brown clay 1142 495 black, siliceous frags. - glassy?
- 676 dk. red-brown clay ferricrete float on track
- 675 dk. red-brown clay black, glassy siliceous fragments
- 674 dk. red-brown clay black, glassy siliceous fragments
- 673 purple brown clay black ferrug laminated fragments-siltst?
- 672 scoriaceous basaltic float
- 671 lt. or-brown clay siltstone float
- 1141 670 red-purp-brown clay pinkish siltstone fragments
- 669 reddish purple clay siltstone o/c
- 668 red-or-brown clay 1142 493 pinkish-purp. siltst subcrop-hematic?
- 667 red-or-brown clay 1142 492 scoriaceous basaltic green tuff siltst frags in hole
- 666 or-brown clay 1142 490 siltst o/c in float
- 665 or-brown clay 491 grey lam siltst float
- 664 or-brown clay siltst frags & ferrecrete
- 663 lt. or-brown clay 1142 489 finely lam pinkish talcose siltst.
- 662 red brown clay 1142 488 green scoriaceous basaltic tuff
- 661 red brown clay scoriaceous basaltic tuff float
- 1141 660 red brown clay 1142 487 green scoriaceous basaltic tuff float
- 659 or-brown clay 1142 485 v. weathered greenish volcanic-scoriaceous basaltic tuffs?
- 658 greenish or-brown clay ferruginous fragments
- 657 lt. or-brown clay siliceous orange fragment-mudstone?
- 656 greenish brown clay or v. weathered siliceous rock massive
- 655 greenish brown clay or siliceous float?
- 654 lt. grey-buff sandy soil angular quartz fragments, possible chert
- 653 lt. buff-brown sandy soil 1142 486 chert subcrop. angular quartz frags & chert
- 652 grey-buff sandy soil chert
- 651 grey-buff sandy soil chert fragments
- 1141 650 pale or-buff clayey soil ferrug, ferricrete? frags, -flat shaley
- 649 lt. or-buff clay orange v. weathered siliceous frags-black Mn? rich
- 1141 648 lt. or-buff clay orange siliceous fragments - subcrop?



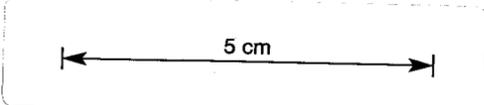
5 cm

CRA EXPLORATION PTY. LIMITED
 229344
 ROCKY CAPE E1/77
 WALLABY ANOMALY
 GEOCHEM PROFILES
 2291
 REF. SK55-3
 SCALE 1:5000
 AUTHOR J.W.
 DATE 20-12-1984
 DRAWN D.L.
 REPORT NO. 7374
 PLAN NO. TASH 2409

NORTH ARTHUR: WALLABY ANOMALY GROUND MAGNETICS

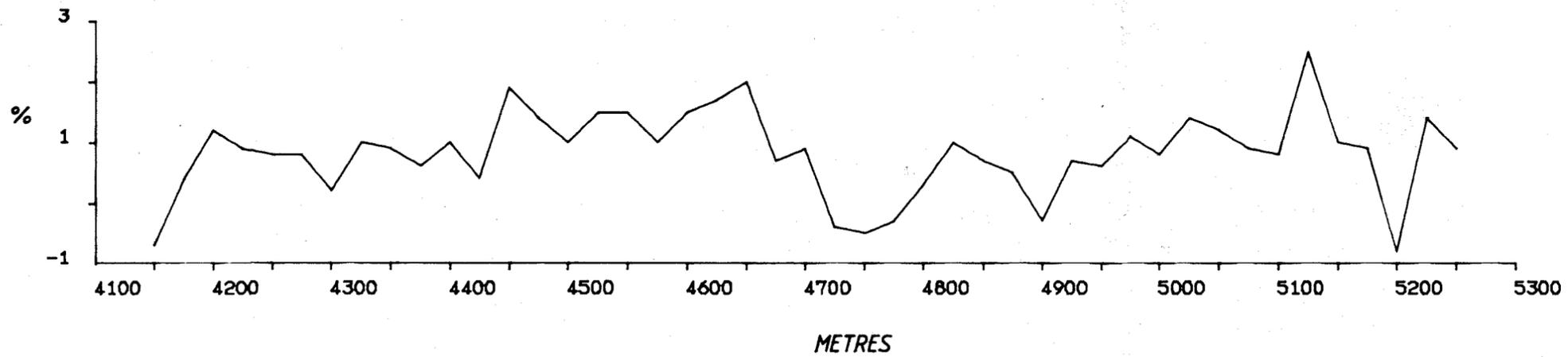
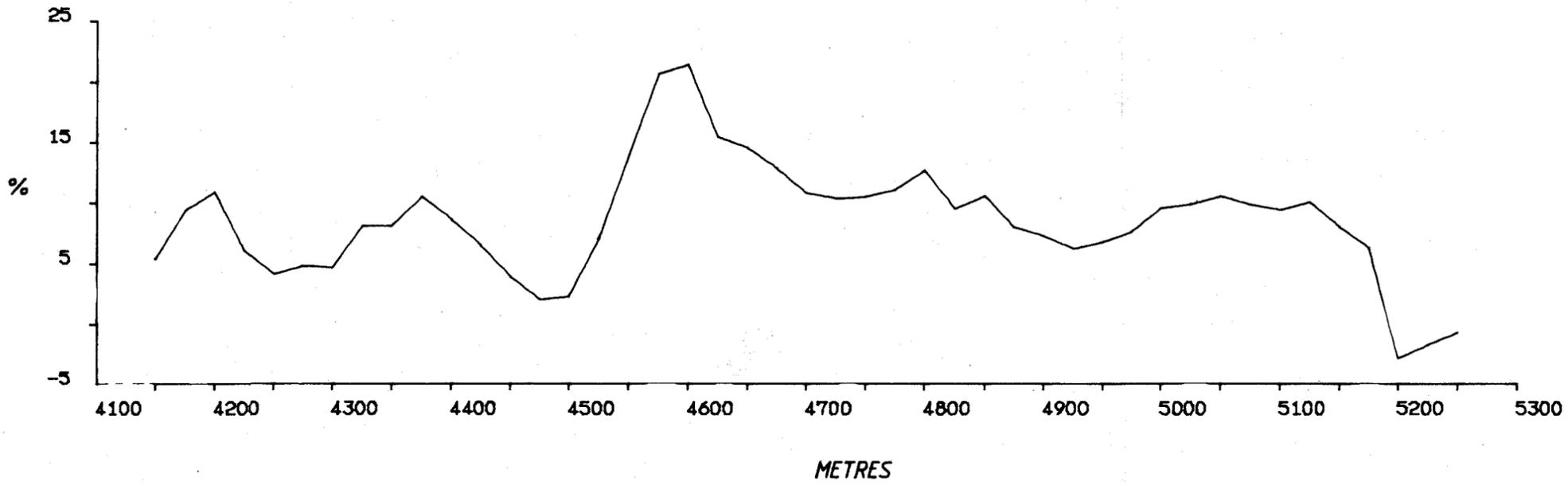


229345

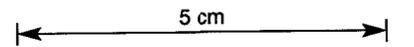


CRA EXPLORATION PTY. LIMITED			
ROCKY CAPE EL1/77 WALLABY ANOMALY GROUND MAGNETICS			2292
85-2336 (Vol 2/3)			
REF.	SK55-3		
SCALE	1:5000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	13114
DATE	21-12-1984	PLAN No.	TASh 2426

NORTH ARTHUR: WALLABY ANOMALY EM



229346



CRA EXPLORATION PTY. LIMITED

ROCKY CAPE E.L. 1/77
WALLABY ANOMALY
GENIE PROFILES 2293

85-2336 (Vol 3/3)

REF.	SK55 - 3		
SCALE	1 : 5000	DRAWN	T.v.S.
AUTHOR	T.v.S.	REPORT No.	13114
DATE	23 - 11 - 1984	PLAN No.	TASH 2296