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C.R.A. EXPLORATION PTY. LIMITED**OPEN FILE**EL 1/77 ROCKY CAPE, NORTH WEST TASMANIAPROGRESS REPORTJANUARY 1 TO DECEMBER 31, 1979**MICROFILMED**

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## 1. SUMMARY

During the twelve-month period to December 31, 1979 work within EL 1/77 has been concentrated in two areas. The majority has been in the Pieman - Granville area. This has comprised regional magnetic, geological and geochemical traversing of stream catchments which embrace aeromagnetic anomalies and which have yielded panned concentrate tin anomalies. Five separate areas were investigated, namely Granville East, Granville West, Hoyle Creek - Ahrberg Bay, Pieman Heads and Pieman Heads Granite. The other areas worked have been the Frankland Magnetic Anomaly near Balfour and some follow-up of the nearby Blackwater Rivulet panned concentrate tin anomaly. A broad grid was cut over the Frankland anomaly and ground magnetometer and geochemical soil sampling programmes undertaken in conjunction with geological mapping.

The work undertaken during 1979 has indicated that the Granville East and Granville West Prospects warrant more detailed investigation while further broad reconnaissance is needed at most of the other areas to get a more conclusive answer.

## 2. INTRODUCTION

This report covers work undertaken during the twelve-month period ~~January~~ 1 to December 31, 1979.

At the commencement of this period EL 1/77 covered an area of 2550 km<sup>2</sup> in two blocks. This area was renewed unchanged

on March 28, 1979. However, when the next renewal date fell due, the area was reduced to 1980 km<sup>2</sup> and split into three separate blocks.

During 1979 a joint venture agreement was negotiated with Geopeko Limited covering all of EL 1/77 with the exception of the eastern (Atlas) block. This agreement is due for final signature in early 1980 although it has been deemed to be operational from April 1, 1979.

During the period covered by this report, the following work has been undertaken:-

. A series of broadly spaced traverses were made over prospective areas at Granville East, Granville West, Ahrberg Bay, Hoyle Creek and Pieman Heads. These traverses comprised ground magnetics (readings at 20 m intervals), geological mapping and geochemical rock chip sampling (each sample representing a 20 m interval where sufficient outcrop was available). This work was aimed at narrowing down the area of interest within drainage catchments which yielded anomalous geochemical panned concentrate tin values and embraced aeromagnetic anomalies by locating anomalous tin levels in bedrock closely associated with ground magnetic anomalies. The primary target is a pyrrhotite and/or magnetite (i.e. magnetic) associated tin deposit. Known deposits and subeconomic occurrences of this type are commonly surrounded by large primary bedrock haloes carrying patchily distributed elevated tin levels. This reconnaissance programme is designed to indicate such haloes which can then be gridded and explored more intensively.

Traverses were initially at around 1 km intervals. At Granville East and Granville West sufficient encouragement was obtained to allow closer spaced traversing.

- . Rock chip sampling of a variety of the phases of the Pieman Heads Granite. Streams draining this granite yielded highly anomalous stream sediment and panned concentrate geochemical tin levels.
- . Follow-up panned concentrate sampling of an anomalous geochemical panned concentrate tin value in the Blackwater Rivulet.
- . A broad grid was cut over the Frankland aeromagnetic anomaly. A ground magnetic survey, geological mapping and soil sampling (on three representative lines) was carried out.
- . Intersections of massive bedded magnetite and pyrite from the Pickands-Mather drilling at the Temma Prospect (holes T301 and T302) were sampled with a core grinder.

The work on the Granville East, Granville West, Pieman Heads, Hoyle Creek, Pieman Heads Granite and Blackwater Rivulet areas was carried out under contract by the Poltock Brothers, the geological work being undertaken by Roger Poltock. This work was planned and supervised by T.M. Porter. The Frankland River exercise was planned and supervised by T.M. Porter with R. Poltock and N. Langsford also being involved in the geological mapping and magnetic survey and the supervision of the soil sampling.

All assaying was undertaken by AMDEL in Adelaide.

### 3. GRANVILLE EAST

The Granville East area covers the anomalous magnetic trend which extends out of EL 1/77 and passes through the St. Dizier tin bearing magnetite body. The portions of the magnetic anomaly within EL 1/77 were cut at intervals of between 500 m and 1 km by ground magnetometer, geological mapping and geochemical rock chip sampling traverses (see plan no. Tv4). This work indicated that the Granville East anomaly represented two separate sub-parallel magnetic units rather than a single bed repeated by folding. Both anomalies decrease in intensity to the north. The source of the eastern magnetic anomaly was not visually identified. It occurs within Adelaidean quartzites and phyllites and yielded a ground magnetic anomaly of up to 800 nT above background towards the south. To the north the anomalous zone broadens with peak values of only 400 nT above background. The source of the western magnetic anomaly was similarly not observed. It appears to be close to the contacts of a black siltstone unit within Adelaidean quartzites and phyllites. An almost identical black siltstone is found immediately adjacent to the St. Dizier occurrence. Rock chip samples generally returned levels of from less than 4 to 10 ppm Sn with a few values of from 15 to 40 ppm towards the south. The better values were found adjacent to the western anomalous zone near the southern margin of the EL.

The results of this work are illustrated on plan no. Tv4 while full assay data are listed on the accompanying ledger sheets (appendix 1).

#### 4. GRANVILLE WEST

The Granville West aeromagnetic anomaly is made up of a series of relatively narrow intense peaks of from 1500 to 10000 nT above background. At some localities thin outcropping conformable massive magnetite and pyrite rich quartzite beds were observed. The host sequence comprises Adelaidean greywacke quartzites, phyllites and schists. Tertiary basalt covers much of the area. Individual magnetic peaks however can be correlated between lines crossing basalt and those over Precambrian sediments. Where the magnetic trend cuts the coast line a dolomite unit and dolomitic siltstones are found. These are overlain by black shale and underlain by phyllite and quartz sandstone with thin magnetite bearing beds. Other thin carbonate beds (from 1 to 5 m thick) are found along the coast both to the north and south. A calc-silicate unit (containing some pyrrhotite) outcrops where the EL boundary meets the coast near Granville Harbour. An apophysis of the Heemskirk Granite cuts the sequence near Granville Harbour.

The majority of rock chip samples returned levels of less than 4 ppm Sn, although a number along or near lines 12 and 13 (see plan no. Tv6) yielded values of between 15 and 140 ppm Sn. A number of these were pyritic quartzite samples. None of the samples of magnetite bearing rocks exceeded 4 ppm Sn. The results of this work are illustrated on plan no. Tv6 while the full assay information is listed in the accompanying ledger sheets (appendix 1).

#### 5. HOYLE CREEK-AHRBERG BAY

A strong aeromagnetic anomaly had been covered by a number of traverses by Renison-ACI in 1974 but not followed up.

Three traverses located the magnetic anomaly on the ground, with peaks of from 3000 to 5000 nT above background. The only outcrop observed in the anomalous zone is olive coloured siltstones adjacent to the contact with Arthur Lineament Schists. No obvious source of the magnetic anomaly was seen. None of the rock chip samples near the magnetic anomaly yielded tin values greater than the detection limit of 4 ppm. The area of interest is almost completely covered by Tertiary basalt, cemented Tertiary gravels and sand dunes. It is possible that the magnetic anomaly overlies a south dipping limb of the Bernafai Basic Volcanic - Savage Dolomite - Delville Chert sequence.

The north dipping limb of this sequence was crossed by a traverse on the shores of Ahrberg Bay. On this traverse a 2500 nT anomaly was obtained over the Bernafai Volcanics. The two 20 m chip samples of Delville Chert and Bernafai Volcanics both returned values of less than 4 ppm Sn. The results of this work are illustrated on plan no. Tv5 while full assay data are listed in the accompanying ledger sheets (appendix 2).

#### 6. PIEMAN HEADS

The area covered by the four Pieman Heads traverses yielded highly anomalous panned concentrate tin values during the 1977 CRAE survey and strong tin anomalies in close-spaced drainage samples collected by Renison-ACI in 1974. The latter companies had concluded that the tin was derived from Tertiary gravels which cover the area.

Bedrock in the prospect area is largely covered by gravels and button grass. The available outcrop is mainly phyllite and siltstone. No rock chip values of greater than 6 ppm Sn were obtained from samples collected on the four traverses cutting the Pieman Heads Prospect. This suggests that the tin within the Tertiary Gravels was not derived locally.

Two low order magnetic anomalies were crossed. The larger was cut by traverses 1 and 2 with peaks of from 300 to 400 nT above background, increasing in intensity and decreasing in width to the north-east.

Three main terrace surfaces are evident in the area. The lower terrace (near 80m above SL) has thick gravel cover in places while the upper terrace (near 100 m above SL) usually only has a thin veneer of gravel. The middle terrace has very little to no gravel. The higher stream sediment tin values obtained by Renison-ACI are found in streams just after they cross the edges of these terraces. The results of this work are illustrated on plan no. Tv5 while full assay data are listed in the accompanying ledger sheets (appendix 3).

#### 7. PIEMAN HEADS GRANITE

Eight 20 m chip samples were taken from different phases of this granite within catchment yielding anomalous panned concentrate tin values. The granite ranged from aplite to porphyritic to medium grained equigranular granite. Quartz and tourmaline veins and nodules are common within some phases of the granite. Rock chip values ranged from 8 to 25 ppm Sn. Results are listed in the accompanying ledger sheets (appendix 3), while sample locations are illustrated on plan no. Tv5.

### 8. BLACKWATER RIVULET

Four sites were sampled as the first step of the Blackwater Rivulet panned concentrate tin anomaly follow-up. The results of this work and a geological sketch plan are illustrated on plan no. Tv7.

A drainage sample (-80 mesh) and a panned concentrate were collected at each site. Low order panned concentrate tin anomalies were obtained from the two eastern tributaries while the western tributary and main rivulet to the south yielded only background levels in panned concentrates. The main stream to the south, however, returned the only anomalous -80 mesh drainage tin anomaly.

A profile sample of Tertiary gravels cut by a Forrestry Commission track between sample sites 716312 and 716318 averaged 26 ppm Sn, 25 ppm  $WO_3$  and 35 ppm Cr over a 6 m thickness from bedrock to the surface. The samples were sieved to -80 mesh. The highest grade interval was 1.5 m at 65 ppm Sn. Full assay data for this sampling are listed in the accompanying ledger sheets (appendix 4).

The geological sequence in the area sampled is illustrated on plan no. Tv7 and can be summarised as follows (from the base).

Basic volcanics(?) - these are fine grained and grey-green with darker green inclusions which may be amygdules. Rocks similar to these have been described on the western bank of the Frankland River at the "Clump" Cu Prospect.

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- . Silty sandstone - these are dark grey and usually pyritic and probably underlie most of the button grass plain between the basic volcanics and the Blackwater Rivulet.
- . Chert - these are finely bedded with black and white beds and laminae. They are overlain by a thin medium grained basic volcanic.
- . Siltstone and greywacke - these are khaki to pink and very soft forming a clayey soil. They may be dolomitic or contain dolomite interbeds.

Tertiary gravels are extensive in the area.

#### 9. FRANKLAND MAGNETIC ANOMALY

A low level helicopter born aeromagnetic survey was flown over SPL's 774 and 781 and adjacent parts of EL 1/77, in March 1979 by Geoex Ltd. The line spacing was approximately 200 m and the average sensor height 75 m above ground. This work delineated the Frankland River magnetic anomaly as illustrated on plan no. Tv11. The anomaly appeared as a single sharp peak, not far removed from but more intense than the nearby Balfour anomaly. The latter is associated with tin mineralisation.

A reconnaissance grid comprising four lines at 300 m spacings was cut over the northern half of the anomaly with a single line over the southern centre of the section. A ground magnetometer survey was attempted on all lines with readings at 20 m intervals. Instrument failure due to damp conditions resulted in only four of the six lines being covered. Bedrock soil sampling at 20 m intervals was carried out on 3 lines accompanied by geological mapping. The results of this work are illustrated on plan no. Tv8 and Tv9.

The ground magnetics showed an erratic multipeak anomaly which coincided closely with a unit of basic lava and pyroclastic which occurs within a sequence of green to red shales which are tuffaceous in part with some cherty bands. No significant tin anomalies were outlined by the soil sampling although two adjacent samples yielded marginally anomalous tungsten values of 40 and 110 ppm W. The full assay results are listed in the accompanying ledger sheets (appendix 5).

#### 10. TEMMA CORE SAMPLING

During the mid 1960's Pickands-Mather drilled two diamond drill hole below part of the Temma magnetic anomaly. Hole no. T301 was reported to have intersected a 20 m interval assaying between 0.09 and 0.1% Sn within a 20 m thick banded magnetite unit which was embraced by a sequence of finely laminated mudstones and siltstones. Hole no. T302 intersected 2.5 m of spongy pyrite which is reported to have only assayed 1 ppm Sn.

The mineralised intervals of these two holes was resampled with a core grinder in February 1979. The results of this work are listed on the accompanying ledger sheet (appendix 6). Tin values for both holes average less than 20 ppm Sn. A number of values of 30 to 250 ppm W may be significant however.

#### 11. CONCLUSIONS AND RECOMMENDATIONS

##### 11.1 Granville East

Sufficient encouragement has been obtained in the form of anomalous bedrock tin levels in close proximity to a magnetic anomaly over almost identical lithologies to those hosting the nearby

St. Dizier tin-magnetic occurrence. This area warrants a magnetic and geochemical survey on a grid basis over the southern section of the western magnetic trend and further geochemical reconnaissance on the southern section of the eastern magnetic trend.

#### 11.2 Granville West

Anomalous bedrock tin levels have been obtained close to large magnetic anomalies which may coincide with dolomitic sections of the host sequence. A grid should be cut over the window in the Tertiary basalt in the centre of the prospect area where the bedrock anomalies have been obtained. It is recommended that the grid should be covered by a ground magnetic survey, geochemical c-horizon soil sampling, geological mapping and if warranted by the preceding, an IP survey.

#### 11.3 Hoyle Creek - Ahrberg Bay

The section of the Hoyle Creek magnetic anomaly covered to date is part of a strong 10 km long aeromagnetic anomaly. Insufficient work has been done to assess this anomaly, largely due to the presence of extensive Tertiary and Recent cover. The anomaly may either be due to the Bernafai Basic Volcanics or a source within the Savage Dolomite-Delville Chert units. Deep auger sampling should provide an answer.

#### 11.4 Pieman Heads

From the work undertaken to date no bedrock source for the geochemical drainage and panned concentrate tin anomalies is obvious. It is assumed that the

source is Tertiary Gravels derived from a source well away from the prospect area. The gravels are believed to be derived from the east and are made up of Precambrian sediments rather than granite.

11.5 Pieman Heads Granite

There appears to be little likelihood of locating an economic ore body within this granite.

11.6 Blackwater Rivulet

It is likely that the source of these panned concentrate tin anomalies is the Tertiary gravels. However, a close spaced sampling programme up one or more of the anomalous creeks is warranted to definitely locate the source.

11.7 Frankland Magnetic Anomaly

The magnetic anomaly would appear to be due to basic volcanics. The prospect has given no encouragement for tin. However, when access to the area improves (with new Forestry Commission roads) the marginally anomalous tungsten levels should be checked.

11.8 Temma Prospect

The resampling of Pickands-Mather drill core and the previous sampling along the Temma magnetic trend has failed to locate any anomalous tin levels. The marginally anomalous tungsten levels and the Pb-Zn mineralisation immediately to the west require more work.

APPENDIX 1

GEOCHEMICAL SAMPLING LEDGER SHEETS,  
GRANVILLE EAST AND GRANVILLE WEST

GEOCHEMICAL ROCK SAMPLING LEDGER

TENEMENT EL 1/17 Rocky Cape Tas

Page No. 1

AREA/PROSPECT GRANVILLE

SAMPLE No's 716201-217

D.P.O. No. A06

GEOLOGIST R.P./JMP DATE March '79

PLAN REFERENCE

ANALYSED BY AMDEL

Sample No.	Approx. Stratigraphic Correl's.	Metal Content in ppm.								Geological observations
		Pb Co	Zn Ni	Cu Mn	Ag Cr	Ti Bi	W	Sn		
716201	5370700N 340800E	3 25	25 25	58 6	<1 20	<10 24	<10	11	Quartzite laminated & silty w/ minor pyrite	
716202	"	5 25	25 5	8 10	<1 20	<10 24	10	20	Shale & silty - dark & pale grey, very unstratified	
716203	"	2 25	25 25	10 10	<1 20	<10 24	<10	12	Quartzite - thinly bedded.	
716204	5377000N 341100E	2 25	25 25	10 10	<1 20	<10 24	<10	8	Quartzite - sheared & slightly micaceous	
716205	"	15 5	5 5	55 40	<1 20	<10 24	<10	10	Siltstone - grey to dark, some schistose.	
716206	5373000N 341200E	13 25	25 5	60 20	<1 20	<10 24	10	6	Weathered silt/s & s/s - minor qtz veining.	
716207	"	7 25	25 5	40 10	<1 20	<10 24	<10	10	As above	
716208	"	3 25	25 25	22 5	<1 20	<10 24	<10	6	Quartzite - massive & qtz veined.	
716209	"	2 25	25 25	12 5	<1 20	<10 24	<10	6	As above.	
716210	5373800N 340800E	2 25	25 25	8 25	<1 20	<10 24	10	8	Quartzite - conglomeratic and fine to medium grained - sheared	
716211	5373200N 340600E	2 25	25 25	8 10	<1 20	<10 24	<10	6	As above.	
716212	5370500N 336300E	8 10	18 10	15 100	<1 15	<10 24	<10	18	Hornfels - actinolite with magnetite	
716213	5370500N 336400E	3 5	10 10	18 60	<1 15	<10 24	<10	12	As above.	
716214	5371400N 336600E	12 60	55 25	20 1500	<1 15	<10 24	<10	24	Quartzite + soft weathered with qtz veining	
716215	"	14 25	25 5	810 170	2 15	<10 24	<10	10	Heavy haematite, dolomite and haematite - magnetite	
716216	"	13 20	25 10	45 60	<1 15	<10 24	<10	14	Quartzite & silt/s - magnetite	
716217	5371400N 337100E	4 80	85 20	55 1900	<1 20	<10 24	<10	8	Massive qtz	

GEOCHEMICAL ROCK SAMPLING LEDGER

Page No. 2

TENEMENT EL 1/17 Rocky Cape

D.P.O. No. 106 to 716221

AREA/PROSPECT GRANVILLE SAMPLE No's. 716218-235

GEOLOGIST RP/TMP DATE March 79

PLAN REFERENCE

ANALYSED BY AM DEL

Sample No.	Stratigraphic coord.	Metal Content in ppm.								Geological observations
		Pb Co	Zn Ni	Cu Mn	Ag Cr	Ta Bi	W	Sr		
716218	5371600N 337100E	5 60	65 60	190 180	<1 15	<10 LT	<10	75	Quartzite = phyllite (hornfels)	
716219	"	4 60	80 60	170 240	<1 10	<10 LT	<10	80	As above	
716220	5371000N 337000E	4 15	35 30	45 60	<1 20	<10 LT	10	4	As above.	
716221	5371600N 336800E	8 60	42 50	50 180	<1 6	<10 LT	10	4	Quartzite adjacent to granite contact	
716222	5370700N 346500E	8 5	15 45	12 10	1 10	<10 LT	<10	LT	Quartzite & phyllite	
716223		8 5	8 25	18 45	1 10	<10 LT	<10	4	As above	
716224		5 5	2 25	10 25	1 10	<10 LT	<10	4	As above	
716225		8 8	12 25	12 60	1 10	<10 LT	<10	10	As above	
716226		12 5	10 25	18 50	1 10	<10 LT	10	18	As above	
716227	5370700N 341300E	8 5	5 25	5 22	1 10	<10 LT	<10	10	As above	
716228		8 5	10 5	5 6	1 10	10 LT	10	8	As above	
716229		5 25	5 25	18 15	1 10	<10 LT	<10	LT	As above	
716230		5 5	5 25	8 32	1 10	<10 LT	<10	LT	As above	
716231		25 25	2 25	8 10	1 10	<10 LT	<10	LT	As above	
716232		10 8	10 25	20 95	1 10	<10 LT	<10	4	As above	
716233	5370700N 340900E	5 5	10 25	12 80	1 10	<10 LT	<10	6	As above	
716234	5372000N 341200E	8 25	8 25	25 50	1 10	<10 LT	<10	4	Siltst & gylt.	
716235	5372500N 341700E	30 25	25 45	60 120	3 120	<10	<10	LT	Brown soil = very weathered basalt fragments.	

GEOCHEMICAL ROCK SAMPLING LEDGER

TENEMENT EL 177 Rocky Cape

D.P.O. No. 407

AREA/PROSPECT GRANNVILLE SAMPLE No's. 716236-253

GEOLOGIST RP/TMP DATE 1/12/74

PLAN REFERENCE

ANALYSED BY AMDEL

Sample No.	State grid coords.	Metal Content in ppm.							Geological observations
		Pb Co	Zn Ni	Cu Mn	Ag Cr	Ta Bi	W	Sn	
716236	S371800N 342100E	5	5	32	1	<10	<10	10	Greysiltst
237	S371600N 341700E	45	2	5	1	<10	<10	8	Quartzite
238	S371600N 341700E	45	2	2	1	<10	<10	4	As above
239	S371500N 341600E	5	12	12	1	40	<10	4	As above
716240	S377000N 343200E	5	2	8	1		20	30	Thin bedded micaceous quartz ± tourmaline banding
241	S369900N 341800E	5	2	8	1	<10	<10	12	Quartz & phyllite ± quartz veining
242	"	5	2	2	1	<10	<10	18	Quartzite & phyllite
243	"	5	2	12	1	<10	<10	8	Phyllite
244	"	8	5	10	1	<10	10	8	Phyllite
245	S368700N 341700E	10	5	8	1	<10	<10	4	Thinly bedded quartz
246	"	5	5	2	1	<10	10	4	Quartzite
247	S369500N 341700E	18	2	5	1	<10	15	40	Quartzite
248	S369500N 341800E	18	5	10	1	<10	<10	16	Massive black siltst ± minor pyrite & quartz veining
249	S369500N 340800E	15	5	22	1	<10	15	10	Thinly bedded quartz
716250	"	22	5	25	1	<10	15	38	Black siltst & pyrite quartz
251	S369800N 341000E	15	18	35	1	<10	10	8	Black siltst ± pyrite & quartz veining
252	S371900N 341200E	12	10	12	1	<10	<10	4	Phyllite & quartz
716253	S371800N 341300E	8	8	22	1	<10	15	4	Phyllite ± minor quartz

GEOCHEMICAL ROCK SAMPLING LEDGER

Page No. 4

TENEMENT EL 1/17 Rocky Cape

D.P.O. No. 107

AREA/PROSPECT GRANVILLE SAMPLE No's 716254-271

GEOLOGIST RP/TMP DATE March 79

PLAN REFERENCE

ANALYSED BY AMDEL

Sample No.	State grid coord.	Metal Content in ppm.								Geological observations
		Pb Co	Zn Ni	Cu Mo	As Cr	Ta Bi	W	Sn		
716254	S371800N 341500E	10	12	5	1	<10	<10	44	Highly weathered brown siltk.	
716255	S371700N 341500E	85	8	5	1	<10	<10	4	Highly weathered siltk	
256	S371600N 341400E	10	10	18	4	<10	<10	8	Soft quartz & siltk.	
257	S371300N 341400E	10	10	12	4	<10	<10	44	Well bedded siltk & quartz	
258	S371200N 341500E	8	2	10	4	<10	<10	4	Phyllite	
259	S371100N 341500E	8	5	2	4	<10	10	16	Quartz & phyllite	
716260	S371000N 341600E	5	5	5	4	<10	10	16	As above.	
261	S370800N 341800E	10	10	20	4	<10	10	26	As above.	
262	S370500N 341800E	5	22	2	4	<10	10	14	Quartz	
263	S370400N 341800E	8	18	38	4	<10	10	26	Pegitic quartz	
264	S370300N 341700E	25	20	8	4	<10	<10	6	Quartz & phyllite	
265	S370300N 341500E	20	5	18	1	<10	<10	44	Dark grey siltk & quartz	
266	S370600N 342200E	45	22	12	4	<10	10	18	Quartz & quartz veining	
267	S370600N 342400E	5	5	20	1	<10	10	6	Weathered silty quartz	
268	S370600N 342500E	5	8	12	4	<10	<10	8	Massive quartz	
269	S370600N 342700E	15	20	18	4	10	15	20	Quartz	
716270	S371100N 342200E	8	25	20	4	<10	<10	44	Phyllite & quartz	
716271	S370500N 341900E	45	5	5	4	<10	<10	4	Quartz	

GEOCHEMICAL ROCK SAMPLING LEDGER

TENEMENT E1/177 Rocky Cape

D.P.O. No. 107

AREA/PROSPECT GRANVILLE

SAMPLE No's. 716272-284

GEOLOGIST R.P./T.M.P. DATE March 79

PLAN REFERENCE

ANALYSED BY AMDEL

Sample No.	State grid coord.	Metal Content in ppm.							Geological observations
		Pb G	Zn Ni	Cu An	Ag G	Ta B	W.	Sn.	
71627	5368200N 341000E	5	5	5	<1	<10	<10	10	Black silts.
273	5371500N 336100E	<5	18	22	<1	<10	<10	<10	Actinolite rich rock. Some magnetite. Obs bands.
274	5371600N 336200E	10	22	10	<1	<10	<10	4	Quartz & schist.
275	5371600N 336300E	10	18	22	1	<10	<10	20	As above
276	5371600N 336300E	8	55	130	1	<10	<10	20	Quartz & quartz-actinolite veining
277	5371600N 336350E	5	50	45	<1	<10	<10	4	Schist & quartz.
278	5371600N 336400E	5	22	12	<1	<10	<10	4	Fine pyrite quartz
279	"	5	12	8	1	<10	<10	<10	As above
716280	537200N 336600E	8	25	28	1	<10	<10	<10	Pyrite chert, & schist.
281	537200N 33660E	25	48	80	2	<10	<10	4	Massive pyrite & magnetite (appears conformable)
282	537200N 336650E	5	25	15	1	<10	10	<10	Schist
283	5372100N 336800E	25	60	150	2	<10	10	<10	Quartz magnetite look (old workings)
716284	5372200N 336850E	28	150	870	2	10	<10	<10	Highly weathered schist.

GEOCHEMICAL ROCK SAMPLING LEDGER

Page No. 6

TENEMENT EL 1/77 ROCKY CAPE 716321-324

D.P.O. No. A12

AREA/PROSPECT GRANVILLE SAMPLE No's. 716331-334

GEOLOGIST R.P. DATE 1-16/5/79

PLAN REFERENCE

ANALYSED BY AMDEL

Sample No.	State grid Coord.	Metal Content in ppm.								Geological observations
		Pb G	Zn Ni	Cu Mn	Ag Cr	Ta Bi	W	Sn		
716321	5372800N 340600E	12	5	5	<1		<10	<1	Quartzite and silty chert ± quartz veins	
716322	5372800N 340400E	22	55	15	2		10	<1	Ferrous silts, probably Tertiary	
716323	5370400N 338100E	8	30	28	1		<10	14	Quartzose hornfels ± pyrite	
716324	5370400N 336900E	15	18	190	1		<10	24	Quartzose hornfels with magnetite bands and pyrite blebs	
716331	5371400N 336300E	20	28	8	<1		<10	20	Tremolite rich hornfels	
716332	5371500N 336200E	25	10	15	<1		<10	140	Magnetite-actinolite rock	
716333	5371470N 336200E	15	20	32	1		10	18	" " "	
716334	5371450N 336200E	10	8	42	1		<10	10	" " "	

C.R.A. EXPLORATION GEOCHEMICAL SAMPLE LOGGER

Tenement name EL 177 Rocky Cape  
 Area / Prospect Granville  
 Map / Photo reference .....

No. .... Sample numbers 716193-200  
717720

Collected by [Signature]  
 Analysed by A. M. DEL

Sheet no. 7  
 Date 31-5-79  
 DPO no. 415

Sample No.	Type	ss channel **							Metal content ppm or %										Grid ref	Geological Observations	
		ss *	fl	wi	al	co	ca	pH	Cu	Pb	Zn	Ag	Co	Mn	Ni	B	Cr				
		oc	o/c sample type ***																		
		f	s sample type ****																		
716193	rc	20m					<10	10	<10	30	10	50	<1	10	300	25	<10	10	5372 70mN 334 220mE	Interbedded grey green to purple grit & shale dipping 80°N	
716194	rc	20m					<10	8	10	12	10	25	<1	<5	85	15	<10	20		As above - thin grit bands grading downwards (to S) to pale bedded s/s	
716195	rc	20m					10	6	<10	5	<5	18	<1	<5	50	5	<10	<10		Dark bedded silt/s dipping 80°N	
716196	rc	20m					<10	4	<10	5	5	12	<1	<5	30	5	<10	<10		As above	
716197	rc	20m					<10	4	<10	2	5	15	<1	<5	160	5	<10	<10		As above	
716198	rc	20m					15	6	10	10	5	28	<1	<5	270	10	<10	<10		As above	
(35m of no ofc)																					
716199	rc	15m					<10	4	10	18	<5	12	<1	<5	100	<5	<10	<10		Pale grey to brown dolomite. Bedded to 15cm thick beds. Some cemented white quartz breccia bands up to 30cm thick. Dip 60°N.	
716200	rc	5m					<10	4	<10	2	<5	5	<1	<5	340	<5	<10	<10		Grey-green to purple conglomerate with white quartz pebbles in thin dark grey sandy silt band in centre.	
(Gap - 20m of no ofc)																					
717722	rc	20m					10	4	<10	25	<5	12	<1	15	100	25	<10	<10	5372 70mN 334 270mE	Green sandy silt with white carbonate band near top. 2m thick band green s/s near centre. Dip 85°N.	

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type sgh = sugar hole or pit depth m A, B or C horizon

C.R.A. EXPLORATION - GEOCHEMICAL SAMPLE LOGGER

Tenement name EL 177 Rocky Cape No. 717723 - 732 Sample numbers 717723 - 732 Collected by [Signature] Sheet no. 8  
 Area / Prospect Stranville Date 31-5-79, 6-6-79  
 Map / Photo reference 417(717723) 416 (from 71722) DPO no. 415 (to 71726)  
 Analysed by [Signature]

Sample No.	Type	ss channel **							Grid ref	Metal content ppm or %										Geological Observations
		fl	wi	al	co	ca	pH	Cu		Pb	Zn	Ag	Co	Mn	Ni	Br	Cr			
		o/c sample type ***																		
		s sample type ****																		
717723	rc	20m				<10	10	<10	10	160	25	<10	10	5372	620mN	Green phyllite - some sweet out gyt				
														334	270mE	segregations - well bedded (1mm), N 80°W				
717724	rc	20m				<10	8	<10	55	5	15	<1	10	290	25	<10	10	Modularly interbedded green phyllite & pale siliceous detrital material.		
717725	rc	30m				<10	14	<10	2	5	5	<1	<5	110	10	<10	10	From top - green silty ss/pale grey silty silty sand/grey silty ss. Dip 80°N		
717726	rc	20m				<10	4	<10	45	10	30	<1	10	480	25	<10	10	Grey finely laminated silty shale		
														537	560mN	Vert.				
														334	290mE					
717727	Sand sample					-	6	<10	12	<5	12	<1	<5	15	<5	<10	40	Sand with dark bands from dunes		
														533	300mN	on Stingray Beach.				
														334	400mE					
717728	rc	20m					14	10	8	5	10	<1		55		<10		Interbedded gyt & shale - finely bedded Dip 50°S.		
														534	000mN					
														333	800mE					
717729	rc	20m					4	<10	12	15	60	<1		210		<10		Bedded grey limestone to calc silt/s Dip 50°E.		
														533	910mN					
														334	810mE					
717730	rc	20m					14	<10	12	15	65	<1		170		<10		As above.		
														5375	980mN					
														333	820mE					
717731	rc	20m					14	<10	10	15	55	<1		210		<10		As above dip 30°S.		
														5373	970mN					
														333	830mE					
717732	rc	20m					4	<10	18	15	80	<1		220		<10		Grey green shales - minor limestone bands		
														5373	950mN					
														333	850mE					

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

Tenement name... EL 1/17 Rocky Cape No. 717733 Sample numbers... 717733 Collected by... [Signature] Sheet no. 9  
 Area / Prospect... Granville Date... 6-6-79  
 Map / Photo reference... Analysed by... AMDEL DPO no. 415

Sample No.	Type	ss channel **							↓	Metal content ppm or %										Grid ref	Geological Observations
		ss *	fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Mo	Mn	Ni	Bi	Cr			
		oc	o/c sample type ***					Sn											W		
717733	rc	20m							LA	<10	15	10	15	<1		1100		<10			537A 400 N 333 300 E
717734	rc	20m						LA	<10	12	15	10	<1		880		<10			As above below 717733 dip 70° S.	
717735	rc	15m						LA	10	30	15	12	<1		630		<10			As above below 717734.	
717736	rc	10m						LA	<10	5	15	10	<1		1800		<10			Pale bedded dolomite or 2m thick dipping 65° N. Underlain by phyllite = some carbonate veining & beds. Sample from below 717735	
717737	rc	10m						A	<10	160	15	40	<1		3400		<10		537A 000 N 33A 500 E	Pale dolomite band 1m thick interbedded in phyllite.	
717738	pc	20	30	45				7100	600	-	-	-	-	-	-	-	-	-	537A 100 N 336 500 E	Abundant heavy gravel granite = basalt & quartz float of Gourlays Ck.	
717739	gs							LA	15	5	5	5	<1		45		<10		537A 100 N 336 500 E	Gossan adjacent to Gourlays Ck. Massive band cellular gossan in swampy zone of no etc.	

\* Sample type ss = stream sediment oc = outcrop f = float s = soil pc = panned com.  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

APPENDIX 2

GEOCHEMICAL SAMPLING LEDGER SHEETS,  
HOYLE CREEK-AHRBERG BAY AREA

GEOCHEMICAL ROCK SAMPLING LEDGER

Page No. 1

TENEMENT E.L. 177 Rocky Cape

D.P.O. No. 41

AREA/PROSPECT Howle Cr. SAMPLE No's. 716285-290

GEOLOGIST R.P.

DATE 2/1/79

PLAN REFERENCE AMBERG BAY

ANALYSED BY AMDEL

Sample No.	Site grid Coord.	Metal Content in ppm.								Geological observations
		Pb	Zn	Cu	Ag	Ta	W	Sn		
		G	Ni	Mn	Cr	Bi				
716285	537400N 333900E	5 30	30	18	<1	40 40	10	6	Hard pale dark grey-green shale with quartz & specular hematite	
716286	5378300N 334800E	20 30	50	100	<1	40 40	<10	14	Siltstone	
716287	5378000N 334500E	45 50	75	95	<1	10 40	<10	14	Siltstone	
716288	" "	10 30	70	40	<1	40 40	10	14	Schistose siltstone	
716289	5377300N 331600E	45 35	65	130	<1	40 40	<10	14	Basaltic basic volcanics	
716290	5377800N 331300E	45 45	42	10	<1		<10	<1	Siliceous sediments of the Delville chert unit.	

APPENDIX 3

GEOCHEMICAL SAMPLING LEDGER SHEETS,  
PIEMAN HEADS AREA AND PIEMAN HEADS GRANITE

C.R.A. EXPLORATION GEOCHEMICAL SAMPLE LEDGER

Tenement name EL 1/17 Rocky Cape  
 Area / Prospect Pleasant Heads  
 Map / Photo reference

No. Sample numbers 716291 - 301

Collected by R Pollock

Sheet no. 1  
 Date 25-4-79  
 DPO no. 411

Analysed by AMDEL

Sample No.	Type	ss channel **						Depth m	Metal content ppm or %											Grid ref	Geological Observations
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Mo	Mn	Ni	Bi Tl	Cr				
		o/c sample type ***																			
		s sample type ****																Sn	W		
716291	o/c	rc					4	<10	10	15	70	<1	5	190	15	<10	<10	5383	700 N	cleaved silt/s.	
																		328	300 E		
716292	o/c	rc					24	<10	5	65	<1	10	200	20	<10	<10	5383	600 N	As above - weathered		
																		328	700 E		
716293	o/c	rc					24	15	60	30	6	<1	5	15	20	<10	20	5383	300 N	black silt/s.	
																		329	300 E		
716294	o/c	rc					24	15	18	5	35	<1	5	900	6	<10	<10	5383	200 N	Siltstone.	
																		328	100 E		
716295	o/c	rc					6	<10	30	45	30	1	30	150	45	<10	<10	5384	900 N	black pyritic silt/s.	
																		328	300 E		
716296	o/c	rc					24	10	12	20	40	<1	10	230	30	<10	10	5383	800 N	Silt/s to phyllite	
																		328	300 E		
716297	o/c	rc					10	<10	2	10	20	<1	<5	190	<5	<10	<10	5379	800 N	Medium grained equigranular granite.	
																		329	100 E		
716298	o/c	rc					8	10	2	5	12	<1	<5	130	15	<10	<10	5379	800 N	As above ± some quartz tourmaline nodules.	
																		329	050 E		
716299	o/c	rc					24	300	12	35	5	<1	<5	85	<5	100	<10	5379	800 N	As above ± quartz tourmaline veins.	
																		328	600 E		
716300	o/c	rc					8	<10	18	10	28	<1	<5	290	<5	<10	<10	5379	700 N	Fine grained granite to aplite ± tourmaline nodules.	
																		328	300 E		
716301	pc						7900	SE	5	<5	15	<1	5	85	5	<10	2500	5379	800 N	No dc. Granite sand & finer gravel.	
F																		328	300 E		

\* Sample type ss = stream sediment oc = outcrop f = float s = soil pc = panned concentrate.  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

C.R.A. EXPLORATION GEOCHEMICAL SAMPLE LEDGER

Tenement name EL 117 Rocky Cape No. 716302 Collected by R. Pollock Sheet no. 2  
 Area / Prospect Reman leads Map / Photo reference  Date 26/1/78  
 Analysed by A.M. DEL DPO no. 411

Sample No.	Type	ss channel **						Carbon W	Metal content ppm or %										Grid ref	Geological Observations	
		ss*	fl	wi	al	co	ca		pH	Cu	Pb	Zn	Ag	Mo	Mn	Ni	Bi	Ta			Cr
		oc	o/c sample type ***						Sn												
		f	s sample type ****																		
716302 F	pc.						1.19%	55	5	45	28		5	30	10		5400		30m upstream from 716301. Sample as above with a few fobs.		
716302 C	o/c rc.						24	110	2	45	8		45	50	45		110		Granite outcrop at same site.		
716303 F	pc.						5.10%	60	5	45	25		5	75	5		4700	5379 800 N. 328 300 E.	No dc. Sample granitic sand.		
716304 F	pc.						5.40%	60	2	45	35		10	80	10		7500	30m upstream from 716303	Sample granitic sand and gravels.		
716304 C	o/c rc.						14	15	5	25	10		45	280	45		20		Medium to fine grained granite with quartz tourmaline veins adjacent to p. con		
716305 F	pc.						1.7%	75	2	100	25		5	70	5		4500	5380 300 N. 328 200 E.	Sample granitic sand.		
716305 C	o/c rc.						20	110	5	5	12		45	130	45		30		Medium grained granite - quartz, tourmaline veins adjacent to panned conc.		
716306 F	pc.						1.66%	60	2	45	20		5	80	5		3900	5380 650 N. 328 250 E.	No dc. Sample granitic sand & very minor gravel.		
716307 F	pc.						2.25%	80	2	45	22		5	75	5		4000	5380 500 N. 328 500 E.	Granitic sand.		
716308 C	o/c rc.						2	110	18	10	25		45	120	45		30		Porphyritic granite adjacent to panned conc sample		

\* Sample type ss = stream sediment oc = outcrop f = float s = soil pc = panned conc.  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name EL Mt Rocky Cape No. .... Sample numbers 716325-328 Collected by R. Felt Sheet no. 3  
 Area / Prospect Pearman Hoops Date 15-5-79  
 Map / Photo reference ..... Analysed by AMDEL DPO no. 712

Sample No.	Type	ss channel **						↓	Metal content ppm or %										Grid ref	Geological Observations	
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Co	Mn	Ni	Bi	Cr				
		o/c sample type ***																Sn			W
		s sample type ****																			
716325	pc						940	<10										5384	900 N		
																		329	100 E		
716326	dc rc						24	<10	10	10	60	1	20	300	22	10	<10		"	dc phyllite	
																		<10	"		
716327	dc rc						10	<10	8	10	22	<1	<5	10	<5	10	<10	5385	300 N	Very soft grey to dark grey silt/s.	
																		329	150 E		
716328	dc rc						24	<10	5	5	42	<1	12	140	18	10	<10	5385	600 N	Phyllite	
																		525	900 E		
716329	pc						2250	10										5385	600 N	Phyllite	
																		329	900 E		
716330	dc rc						24	<10				1				10	<10		"	Phyllite	

\* Sample type ss = stream sediment oc = outcrop f = float s = soil pc = panned conc.  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

APPENDIX 4

GEOCHEMICAL SAMPLING LEDGER SHEETS,  
BLACKWATER RIVULET AND SALMON RIVER AREAS

C.R.A. EXPLORATION GEOCHEMICAL SAMPLE LEDGER

Tenement name E. 1/17 Rocky Cape No. 716303-320 Sample numbers 716303-320 Collected by R. J. Black Sheet no. 1  
 Area / Prospect Blackwater R. Date 7-8/5/79  
 Map / Photo reference Gardiner - State metric grid Analysed by AMDEL DPO no. 12

Sample No.	Type	ss channel **						Depth	Metal content ppm or %												Grid ref	Geological Observations
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Co	Mn	Au Ni	Bi	Cr					
		o/c sample type ***																				
		s sample type ****																				
716303	o/c	rc	20m	sample		<4	<10	12	15	70	21	15	210	18	10	210	5439	400 N	Five grained grey-green rock with dark inclusions - pellets - could be amygdular			
																	322	100 E				
716307	o/c	rc	20m	sample		4	20	15	25	100	1	25	180	15	20	210	5439	200 N	As above			
																	322	000 E				
716310	pc					8	<10										5439	800 N				
																	324	700 E				
716311	ss					110	10	8	5	25	<1	8	45	20	10	2800	"					
																	"					
716312	pc					280	<10										5441	700 N				
																	325	700 E				
716313	ss					16	<10	12	8	32	1	15	240	30	10	120	"					
																	"					
716314	o/c	rc	20m	sample		<4	<10	25	12	30	<1	15	210	35	10	10	"		Sandstone to chert.			
																	"					
716315	pc					8	<10										5441	700 N	Minor heavies only			
																	324	600 E				
716316	ss					<4	<10	8	8	2	<1	<5	15	5	<10	<10	"					
716317	o/c					<4	<10	15	20	25	<1	8	120	20	10	10	"		Pyritic silty sandstone			
716318	pc					120	<10										5440	500 N				
																	325	700 E				
716319	ss					<4	<10	5	5	12	<1	5	95	10	<10	90	"					
716320	o/c					<4	<10	5	5	35	<1	50	1900	25	10	10	"		chert.			

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
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 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

All to <10 ppm.

Tenement name: EL 177 Rocky Camp C.R.A. XPLORATION . GEOCHEMICAL SAMPLE LOGGER Sheet no. 2  
 Area / Prospect: Blackwater District No. \_\_\_\_\_ Sample numbers: 88986 - 991 Collected by: [Signature] Date: 22-6-79  
 Map / Photo reference: \_\_\_\_\_ Coordinates - State metric grid Analysed by: AMDEL DPO no. \_\_\_\_\_

Sample No.	Type	ss channel **						Depth (m)	Metal content ppm or %										Grid ref	Geological Observations
		ss*	fl	wi	al	co	ca		pH	Cu	Pb	Zn	Ag	Co	Mn	As	Bi	Cr		
188986	rc	10m						<4	40	25	10	30	<1		350		<10	-	546 300 N 326 800 E	Black pyritic shale.
188987	Tertiary gravel vertical sample	Continuous	12	35	2	45	2	<1		20							<10	30	546 800 N 325 800 E	Coarse quartz / quartz sand gravel From bedrock to 1.5m above
188988	"	"		65	25	42	45	2	<1		20						<10	50	"	From 1.5 to 3m above bedrock - coarse gravel
188989	"	"		10	20	42	45	2	<1		35						<10	20	"	From 3 to 4.5m above bedrock gravelly sand.
188990	"	"		20	20	2	45	2	<1		30						<10	40	"	From 4.5m -> 6m above bedrock coarse gravel and sand bands (surface at 6m)
188991	ss	2m		85	40	8	45	20	<1		55						<10	30	547 800 N 324 700 E	Relate of 716311.

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

GEOCHEMICAL ROCK SAMPLING LEDGER

Page No. 1

TENEMENT EL117 Rocky Cape

D.P.O. No. 406

AREA/PROSPECT SALMON RIVER SAMPLE No's 716180-183

GEOLOGIST T.M.P. DATE 11/10/79

PLAN REFERENCE Sandy Cape 1:100,000 State Top Sheet

ANALYSED BY AMIEL

Sample No.	Location	Metal Content in ppm.							Geological observations
		Pb /Pb	Zn /Zn	Cu /Ni	Ag /Ag	Sn /Cr	W	Ta.	
716180	S453200N S91000E	5 LT	5 LT	35 LT	51 LT	32 10	<10	<10	Laminated bedded white to grey siltstone dipping South at 40 to 90°. Chip sample traversing a 2cm strat thickness in aqueduct.
716181	Above	10 LT	10 LT	28 LT	51 LT	18 15	<10	<10	Laminated grey & black silts to silt - Chip sample from same quarry floor.
716182	S453300N 3133000E	14 LT	25 LT	12 5	<1 80	10 LT	10	<10	Laminated grey siltstone to dirty s/s of minor degree.
716183	S453600N 3159500E	5 LT	2 LT	8 LT	<1 LT	8 LT	<10	<10	Well laminated pale grey silts with s/s black laminated immediately below the Bryant Hill Outcrop on WARRA RD.

APPENDIX 5

GEOCHEMICAL SAMPLING LEDGER SHEETS,  
FRANKLAND RIVER AREA

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE REGISTER

Tenement name... EL 1/11 Rocky Cape No. .... Sample numbers... 717501... 511... Collected by... *[Signature]* Sheet no. ....  
 Area / Prospect... FRANKLAND RIVER Date... 13-6-79  
 Map / Photo reference... Grid N = State Grid N. 10 000M = State Grid 16 000 E = 5 434 430m N / 325 200m E. Analysed by... *[Signature]* DPO no... 417

Sample No.	Type	ss channel **						Carbon ca.	Metal content ppm or %											Grid ref	Geological Observations				
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Co / Bi	Mn	Cr	Sn	W	Ni							
		o/c sample type ***																							
		s sample type ****																							
		Rock	Sand	Silt	Clay	Horiz	Colour	Depth																	
717501	S	5	5	6	80	C	Orange	40	35	10	30	<1	45	110	60	8	40	50	9700N 10000E	Rock decomposed mud/s (chart?)					
717502	S	-	-	10	90	B/c	Red	50	35	10	35	<1	5	140	40	4	110	70	9980E	No of c or rock					
717503	S	-	5	6	8	B	red	80	60	5	75	<1	15	350	200	4	110	150	9960E	No of c or rock					
717504	S	5	5	20	70	C	"	50	85	45	90	<1	30	600	190	4	110	200	9960E	Rock basic tuff					
717505	S	5	5	15	75	C	"	50	90	5	140	<1	55	1400	250	4	15	250	9920E	of c basic volcanic					
717506	S	10	5	20	65	C	"	60	70	10	130	<1	70	1200	270	4	10	190	9900E	Rock as above					
717507	S	10	5	20	65	C	"	50	60	45	100	<1	40	1300	260	4	10	130	9880E	of basic tuff					
717508	S	10	5	55	30	B	"	40	75	5	600	<1	40	2000	230	6	10	150	9860E	As above					
717509	S	10	5	5	80	C	"	30	42	5	55	<1	10	740	160	4	10	130	9840E	No of c					
717510	S	-	5	65	30	B/c	brown	80	25	5	25	<1	45	60	60	4	20	40	9820E	No of c					
717511	S	-	5	10	85	"	red	30	35	5	28	<1	45	140	90	4	10	15	9800E	No of c					

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type s = sugar hole or pit depth m A, B or C horizon

057038

Tenement name EL 1/77 Rocky Cape  
 Area / Prospect FRANKLAND RIVER  
 Map / Photo reference

C.R.A. EXPLORATION GEOCHEMICAL SAMPLE REGISTER  
 No. Sample numbers 717512 - 522 Collected by [Signature]

Sheet no. 2  
 Date 13-6-79  
 DPO no. 117

Analysed by AMDEL

Sample No.	Type	ss channel **							Carbon cm	Metal content ppm or %										Grid ref	Geological Observations
		fl	wi	al	co	ca	pH	Cu		Pb	Zn	Ag	Co/Bi	Mn	Cr	Sn	W	Ni			
		o/c sample type ***																			
		s sample type ****																			
717512	S	10	5	5	80	C	real	30	120	15	48	<1	5	200	190	4	<10	60	9700H 9700E	Rock decomposed mud/s (chert?)	
717513	S	10	5	50	55	B/C	brown	20	35	5	30	<1	5	670	100	14	10	20	9760E	Rock tuffaceous (basic?) shale	
717514	S	-	5	6	85	B/C	brown	40	45	10	35	<1	5	210	160	6	<10	40	9740E	No ofc	
717515	S	-	5	6	85	B	"	40	40	15	35	<1	5	580	130	6	<10	35	9720E	ofc decomposed basic tuff	
717516	S	-	-	6	90	B/C	"	30	110	5	32	<1	5	310	80	4	<10	50	9700E	No ofc	
717517	S	5	5	6	80	C	"	40	150	5	45	<1	25	440	90	4	<10	60	9680E	ofc basic lava	
717518	S	6	5	6	75	C	"	50	190	5	42	<1	15	210	70	4	<10	55	9660E	As above	
717519	S	5	5	6	80	C	"	30	150	5	40	<1	15	220	80	14	<10	45	9640E	No ofc	
717520	S	6	6	6	70	C	"	40	100	5	60	<1	30	700	80	14	<10	55	9620E	No ofc	
717521	SS	20	40	40	W	3m	Coll		5	10	30	<1	10	320	40	34	<10	30	9750N 10000E	Clk flowing east - ofc brown mud/s Flint, basic, being yalc's quartz & quartzite	
717522	SS	20	35	40	W	3m	Coll		5	5	10	<1	25	25	10	14	<10	15	9630N 10000E	No ofc Flint white quartz & basic Clk flowing east.	

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 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
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 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

027039

Tenement name: EL 177 Rocky Cape C.R.A. EXPLORATION GEOCHEMICAL SAMPLE LOGGER  
 Area / Prospect: Faulkland River No. Sample numbers: 71753-533 Collected by: [Signature] Sheet no. 3  
 Map / Photo reference: ..... Analysed by: Amos Date: 15-6-79  
 DPO no. 117

Sample No.	Type	ss channel **						Carbon on	Metal content ppm or %										Grid ref	Geological Observations
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Co	Mn	Cr	Sr	W.	Ni		
		o/c sample type ***							Bi											
		s sample type ****																		
		Rock	Sand	Silt	clay	fine	Colour	light										9700N		
71753	S								80	10	70	<1	35	4100	60	<4	<10	45	9700E	
													<10							
24	S								600	10	50	<1	15	220	50	+	<10	80	9580E	
													<10							
25	S								95	10	60	<1	15	260	160	<4	10	80	9560E	
													<10							
26	S								80	10	40	<1	15	140	260	+	<10	60	9540E	
													<10							
27	S								65	10	55	<1	25	290	340	+	10	95	9520E	
													<10							
28	S								75	10	70	<1	25	340	370	<4	<10	95	9500E	
													<10							
29	SS	Gravel			Flow	width	Banks		2	<5	12	<1	<5	45	20	48	<10	10	9500N 10000E	o/c grey shale to slate. Flint white quartz Flinty west
					F.	+	coll.						<10							
717530	SS		15	35	50	S	1	coll	25	10	100	<1	15	430	100	+	10	70	8800N 9880E	o/c green shale. Flint same + basic lava + det. Flinty N
		Rock			day	fine	colour						<10							
31	S		30	30	40	-	brown	30	2	<5	15	<1	25	15	<10	+	<10	<5	7800N 10500E	Quartz white quartz pebbles & quartz sand Possibly tertiary
													<10							
32	S		30	30	40	-	grey	40	2	<5	5	<1	25	5	<10	+	<10	<5	9980E	As above
													<10							
717533	S		30	30	40	-	"	"	2	<5	10	<1	25	5	<10	+	15	25	9960E	As above
													<10							

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type sugar hole or pit depth m A, B or C horizon

Tenement name EL177 Rocky Cape  
 Area / Prospect FRANKLAND RIVER  
 Map / Photo reference .....

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LOGGER  
 No. .... Sample numbers 717534 - 717544 - Collected by [Signature]

Sheet no. 1  
 Date 15-6-79  
 DPO no. 13

Analysed by AMDEL

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %											Grid ref	Geological Observations								
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Co	Mn	Cr	Sr	W	Ni											
		o/c sample type ***																											
		s sample type ****																											
		Rock	sand	silt	clay	thick	colour	Depth																					
717534	S	10	10	50			Grey	grey	10	2	<5	10	<1	<5	<5	<10	<10	<10	<10	<5					7800N	Grey quartz gravel. Possible, Testing (transported materials)			
35	S	10	10	20	60	C	Orange	30	8	5	10	<1	5	170	<10	10	<10	10							9920E	Redd gran shale			
36	S	-	5	20	75	B/C			50	12	5	18	<1	<5	45	10	<10	<10	5							9900E	No d/c		
37	S	5	5	20	70	C			20	15	5	12	<1	<5	35	20	<10	<10	5							9880E	d/c ferruginous shale		
38	S	-	5	20	75	B/C	Orange	50	250	5	55	<1	15	210	80	<10	<10	60								9860E	No d/c		
39	S	-	-	10	90	B			20	10	50	<1	15	470	170	<10	<10	65								9840E	No d/c		
717540	S	-	5	10	85	B/C			30	230	5	65	<1	30	850	80	<10	<10	55								9820E	Decomposed basic volcanic?	
41	S	-	5	10	85	B			10	180	45	75	<1	50	840	200	<10	<10	70								9800E	No d/c	
42	S	20	5	10	65	C			30	160	10	75	<1	100	200	10	<10	<10	55								9780E	d/c basic lava	
43	S	-	-	20	80	B/C			30	120	10	50	<1	25	1100	80	<10	<10	10								9760E	No d/c	
717544	S	-	-	20	80	C			30	140	10	38	<1	10	120	80	<10	<10	10									9740E	No d/c

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 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

057041

Tenement name EL 1/77 Rocky Gade  
 Area / Prospect FRANKLAND RIVER  
 Map / Photo reference.....

C.R.A. EXPLORATION GEOCHEMICAL SAMPLE LOGGER

No. .... Sample numbers 717545 - 555 ..... Collected by [Signature]

Sheet no. 5  
 Date 15-6-79  
 DPO no. 117

Analysed by ANDEL

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %											Grid ref	Geological Observations
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Co	Mn	Cr	Sr	W.	Ni			
		o/c sample type ***							Bi												
		s sample type ****																			
717545	S	Rock Sand	Est	Clay	fine	Colour	Depth cm	40	10	60	<1	60	1400	60	<4	<10	60	7120E	No d/c		
A6	S	-	5	6	85	B	orange	40	35	5	25	<1	5	130	40	<4	<10	15	9700E	No d/c	
A7	S	-	-	20	80	B	brown	30	20	5	12	<1	25	20	10	<4	<10	60	9680E	No d/c	
A8	S	-	-	10	90	C	"	20	10	5	15	<1	25	15	<10	<4	<10	5	9660E	Decomposed basic volcanic	
44	S	20	30	50	-	hard grey	40	22	5	8	<1	25	5	40	<4	10	25	9640E	Grey quartz gravel. Tertiary or transported residuals		
717550	S	5	30	60	5	"	"	50	8	5	12	<1	25	15	40	4	<10	5	9620E	As above	
51	S	20	5	70	5	B	brown	40	2	25	15	<1	25	10	<10	<4	10	25	9600E	Rock grey silt/s	
52	S	20	30	45	5	B/C	grey	40	22	25	5	<1	25	25	<10	6	<10	25	9580E	As above	
53	S	-	10	80	10	A/B	brown	30	22	25	5	<1	25	25	<10	<4	<10	25	9560E	No d/c	
54	S	15	40	40	5	hard grey	40	2	25	5	<1	25	25	<10	<4	<10	25	9540E	As for 717544		
717555	S	20	30	40	5	"	"	20	22	25	8	<1	25	5	<10	6	<10	25	9520E	As above	

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
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 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

057042

C.R.A. EXPLORATION GEOCHEMICAL SAMPLE REGISTER

Tenement name: EL1/17 Rocky Cape No. 717556-558 Sample numbers: 717571-578 Collected by: WRS NRL Sheet no. 6  
 Area / Prospect: FRANKLAND RIVER Date: 15-6-79  
 Map / Photo reference: ..... Analysed by: AMDEL DPO no. 117

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %										Grid ref	Geological Observations					
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Mo	Mn	Co	Sn	W	Ni							
		o/c sample type ***																							
		s sample type ****																							
		Rock	Sand	Silt	Clay	floor	Colour	Depth																	
717556	S	5	As	As	5	Clay	grey	20	22	25	2	21	25	5	20	24	10	25	9500E	As for 717555					
57	S	-	30	15	5	"	"	10	22	25	5	21	25	10	20	6	210	25	9480E	As above					
58	SS	20	10	10	1	Flow	white	-	3	20	2	21	25	5	20	24	210	25	7800N 9910E	No ofc Flood white grit gravel & toxic volcanics. Flowing south					
717571	S					Flow	yellow	30	22	5	20	21	25	50	10	24	210	5	9100N 10000E	yellow clay. No ofc					
72	S					C		25	22	25	38	21	10	160	10	24	210	15	9920E	Fragments of weathered green silt/s					
73	S					C		30	22	25	8	21	25	10	10	4	210	25	9960E	Fragments of red & green silt/s					
74	S					C		10											9960E	Fragments green silt/s					
75	S					C		35	5	25	20	21	25	30	10	10	10	25	9920E	Stiff yellow clay					
76	S					C		25	18	30	25	21	25	45	20	4	210	10	9910E	yellow brown clay					
77	S					C		25	22	5	18	21	25	50	20	24	210	15	9880E	Red brown clay with silt/s red to green silt/s fragments					
717578	S					C		20	95	25	35	21	15	240	80	24	210	50	9880E	Orange brown clay & silt/s weathered basin volcanic fragments					

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 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

057043

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LOGGER

Tenement name ELIOTT ROCKY CAPE No. 717579 - 589 Sample numbers 717579 - 589 Collected by NRL Sheet no. 7  
 Area / Prospect FRANKLAND RIVER Date 15-6-79  
 Map / Photo reference ..... Analysed by AMDEL DPO no. 17

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %											Grid ref	Geological Observations					
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Co	Mn	Cr	Sr	W	Ni								
717579	S						112	30	95	5	75	<1	35	700	150	A	<10	110	980E	Red brown clay c 40% weathered green basic rock fragments.						
717580	S						B/C	20	22	<5	55	<1	20	280	440	B	<10	70	9820E	Red brown to purple clay c 50-60% limonite weathered basic volcanics						
81	S						C	35	15	45	70	<1	5	120	450	LA	<10	45	9800E	Yellow clay.						
82	S						C	30	35	5	45	<1	10	290	270	8	<10	40	9780E	Yellow-brown clay						
83	S						B/C	40	80	5	40	<1	20	540	110	LA	<10	45	9760E	Red-brown clay c 20% fragments of fine green weathered basic volcanics						
84	S						"	30	75	5	30	<1	10	390	180	LA	<10	80	9740E	Red brown to yellow clay c 20% fragments of weathered basic rock.						
85	S						"	35	65	5	55	<1	50	7600	160	LA	<10	75	9720E	Yellow brown clay.						
86	S						"	40	140	5	28	<1	15	820	140	A	<10	40	9700E	Yellow brown clay c 30% fragments of yellow weathered rock.						
87	S						"	35	85	5	15	<1	5	200	50	LA	<10	35	9680E	Red brown clay c 10% yellow rock fragments.						
88	NOT TAKEN																									
717589	S						C	45	150	<5	28	<1	10	500	40	LA	10	50	9660E	Red brown clay c 70% weathered green to yellow basic.						

\* Sample type ss = stream sediment oc = outcrop f = float s = soil  
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 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

057044

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LOGGER

Tenement name EL 177 Rocky Cape No. 717590 - 977 Sample numbers 717590 - 977 Collected by MRL Sheet no. 8  
 Area / Prospect FRANKLAND RIVER Date 15-6-79  
 Map / Photo reference ..... Analysed by AMDEL DPO no. 117

Sample No.	Type	ss channel **						Carbon	Metal content ppm or %										Grid ref	Geological Observations
		fl	wi	al	co	ca	pH		Cu	Pb	Zn	Ag	Co	Mn	Cr	Sr	W	Ni		
		o/c sample type ***																		
		s sample type ****																		
717590	S					C	Depth 40	95	5	32	<1	5	260	40	<4	<10	30	9100H	Red brown clay = soft rock fragments as for 717589.	
91	S					C	25	140	5	25	<1	5	320	70	6	<10	30	9100E	Yellow clay	
92	S					C	30	80	5	20	<1	5	80	110	14	10	30	9100E	As above	
93	S					B/C	35	75	5	25	<1	10	210	110	4	<10	40	9100E	Red brown clay = soft fragments of yellow - red weathered silt.	
94	S					A	40	20	10	10	<1	15	20	50	14	<10	15	9100E	Yellow clay	
95	S					C	40	12	5	12	<1	15	10	110	4	10	15	9100E	Green clay = weathered silt/clay fragments.	
96	S					B/C	35	12	15	12	<1	15	15	110	14	110	15	9100E	Pale brown clay.	
717597	S					B/C	20	12	15	12	<1	15	5	110	14	110	15	9100E	As above.	

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 \*\* Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2  
 \*\*\* Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)  
 \*\*\*\* Soil sample type auger hole or pit depth m A, B or C horizon

APPENDIX 6

GEOCHEMICAL SAMPLING LEDGER SHEETS,  
TEMMA CORE SAMPLING

046

GROUND CORE SAMPLES, PICKANDS WATHER, TEMMA DISTRICT T301, T302.

GEOCHEMICAL ROCK SAMPLING LEDGER

Page No. ....

TENEMENT EL 1/77 ROCKY LAPE.

D.P.O. No. 00403

AREA/PROSPECT TEMMA PROSPECT SAMPLE No's 716013 - 025

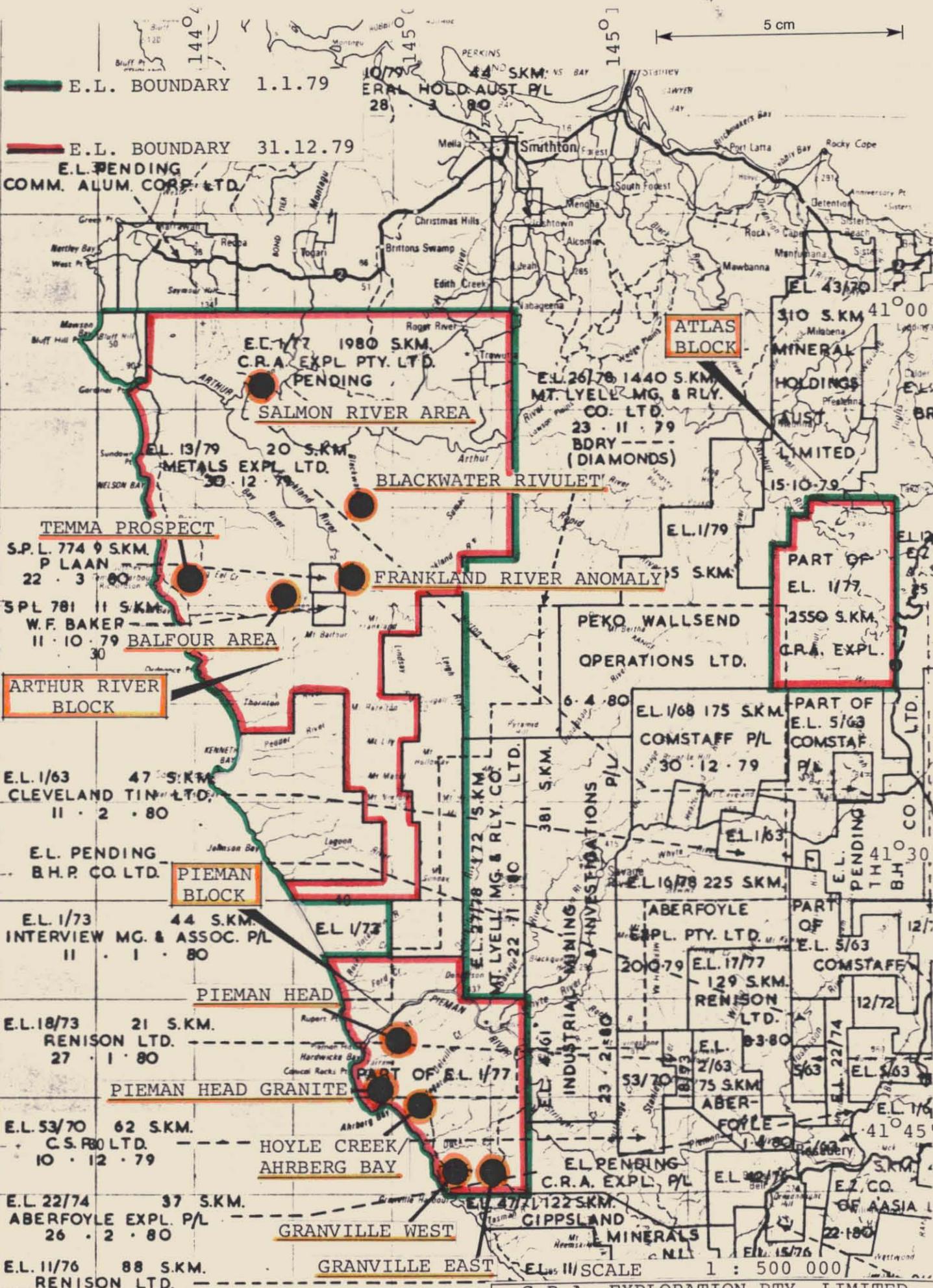
GEOLOGIST *[Signature]* DATE 5-2-79

PLAN REFERENCE .....

ANALYSED BY A/S EL

Sample No.	Interval (ft)	Metal Content in ppm.								Geological observations
		Pb	Zn	Cu	Ag Bi	Sn W	Co Ni	Cr Mn		
716013	264' - 271 1/2'	25	400	60	<1	26	22	22	Ad. T301	
					<10	65	25	2900		
014	271 1/2' - 276 1/2'	22	220	130	<1	8	5	<10		
					<10	80	8	6700		
015	276 1/2' - 277 1/2'	22	280	280	1	A	5	<10		
					<10	250	15	67%		
016	277 1/2' - 287 1/2'	25	230	530	A	A	5	<10	Magnetite oxidized and underlain by laminated shale to siltstone	
					<10	170	20	1.4%		
017	287 1/2' - 285'	25	360	270	1	<A	2	10		
					<10	30	5	1.9%		
018	285' - 274 1/2'	22	570	770	11	<A	5	10		
					<10	160	15	1.9%		
019	274 1/2' - 284'	30	350	160	1	<A	3	10		
					<10	90	8	1.4%		
020	284' - 294'	22	260	260	<1	<A	5	<10		
					<10	80	10	1.7%		
021	294' - 306 1/2'	20	300	70	<1	6	42	160		
					<10	70	150	5100		
022	306 1/2' - 316 1/2'	28	290	48	<1	8	35	100		
					<10	60	90	3200		
023	316 1/2' - 316 1/2'	32	200	45	<1	A	38	20	T302	
					<10	80	28	1300	Massive spongy fragments with intercalated shale and siltstone	
024	316 1/2' - 317 1/2'	190	410	1550	<1	14	65	32		
					<10	150	30	1600		
025	317 1/2' - 356 1/2'	35	200	45	1	6	12	22		
					<10	40	15	790		

057048

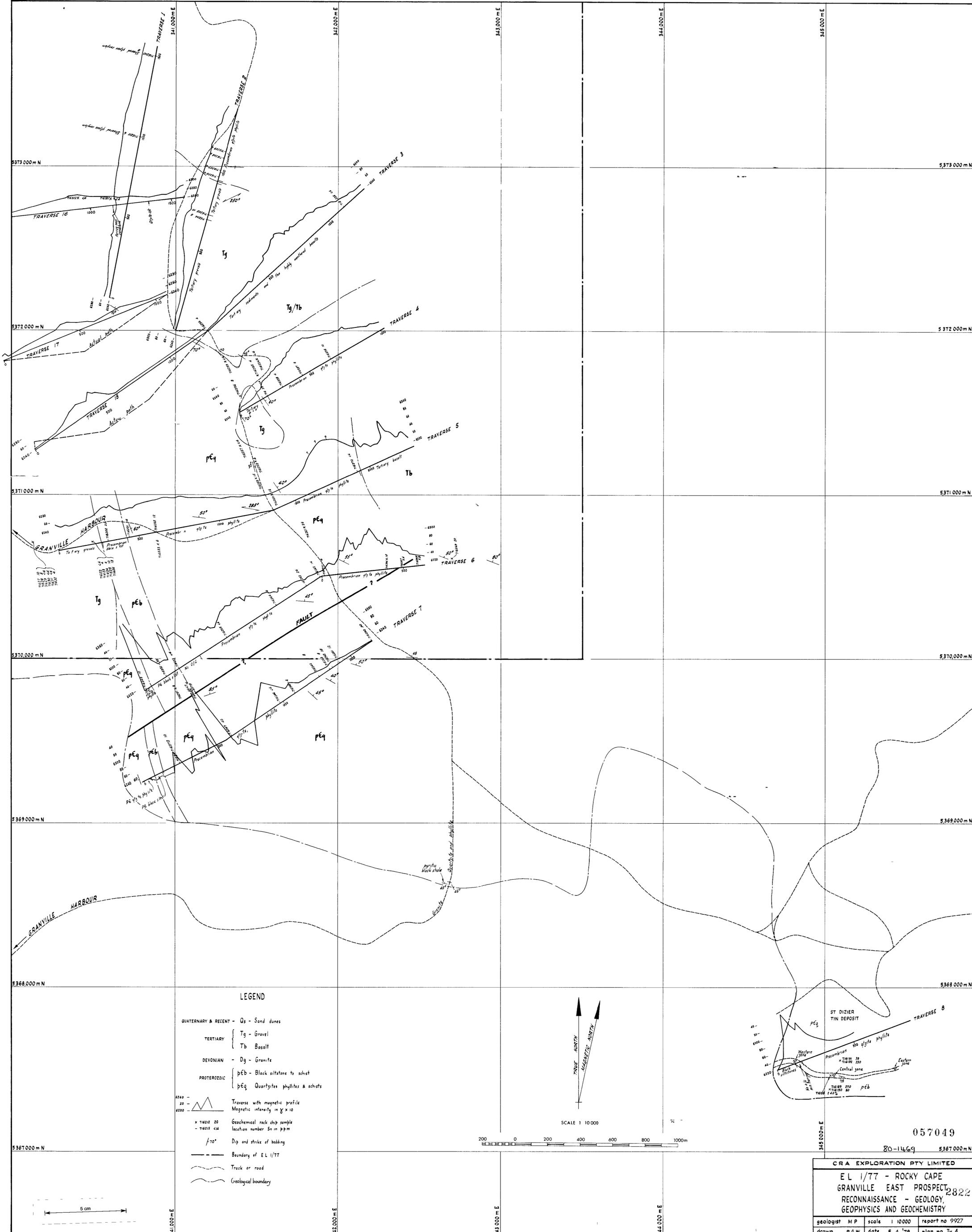


February 1980 Report No. 9927 Plan No. Tv 10

C.R.A. EXPLORATION PTY. LIMITED

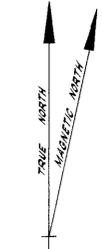
E.L. 1/77 ROCKY CAPE, N.W. TASMANIA

PLAN SHOWING PROSPECT LOCATIONS

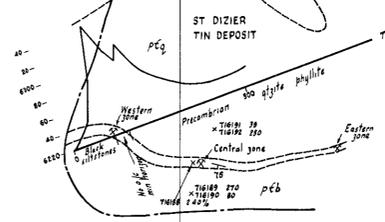


**LEGEND**

- QUATERNARY & RECENT - Qs - Sand dunes
- TERTIARY {
  - Tg - Gravel
  - Tb - Basalt
- DEVONIAN - Dg - Granite
- PROTEROZOIC {
  - pEb - Black siltstone to schist
  - pEq - Quartzites phyllites & schists
- Traverse with magnetic profile  
 Magnetic intensity in  $\gamma \times 10$
  - Geochemical rock chip sample  
 location number Sm in ppm
  - Dip and strike of bedding
  - Boundary of EL 1/77
  - Track or road
  - Geological boundary



SCALE 1 10 000



057049

20-1469 5367.000 m N

CRA EXPLORATION PTY LIMITED			
EL 1/77 - ROCKY CAPE			
GRANVILLE EAST PROSPECT			
RECONNAISSANCE - GEOLOGY,			
GEOPHYSICS AND GEOCHEMISTRY			
geologist	M P	scale	1 10 000
drawn	RGW	date	5 4 '79
report no	9927	plan no	Tv 4

057050



**LEGEND**

- QUATERNARY & RECENT - Qs - Sand dunes
- TERTIARY {
  - Tg - Gravel
  - Tb - Basalt
- DEVONIAN - Dg - Granite
- PROTEROZOIC {
  - pCb - Black siltstone to schist
  - pEq - Quartzites, phyllites & schists

6240 -  
 20 -  
 6200 -  
 6180 -  

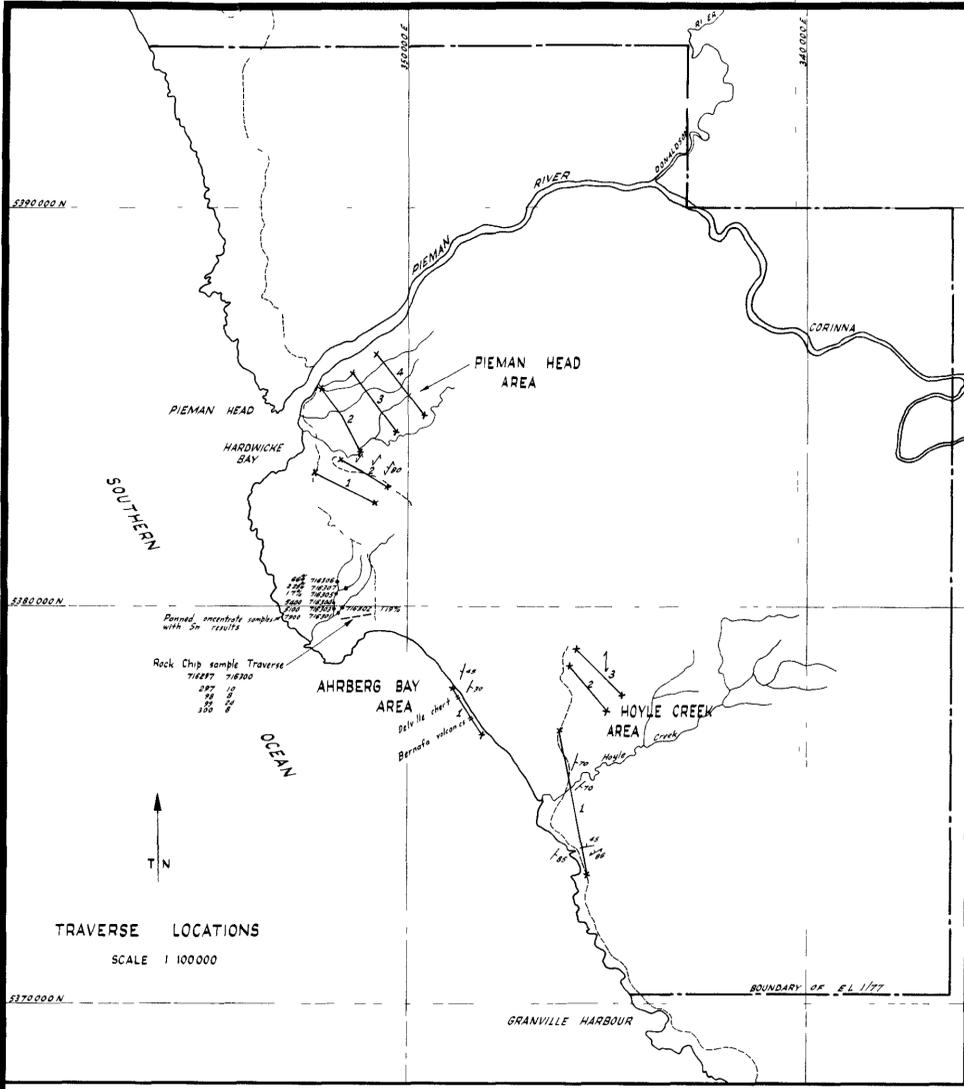
 Traverse with magnetic profile.  
 Magnetic intensity in  $\gamma \times 10$

x 716212 - 20 Geochemical rock chip sample,  
 location, number, Sn in p.p.m.  
 /70° Dip and strike of bedding  
 --- Boundary of E.L. 1/77  
 --- Track or road  
 --- Geological boundary

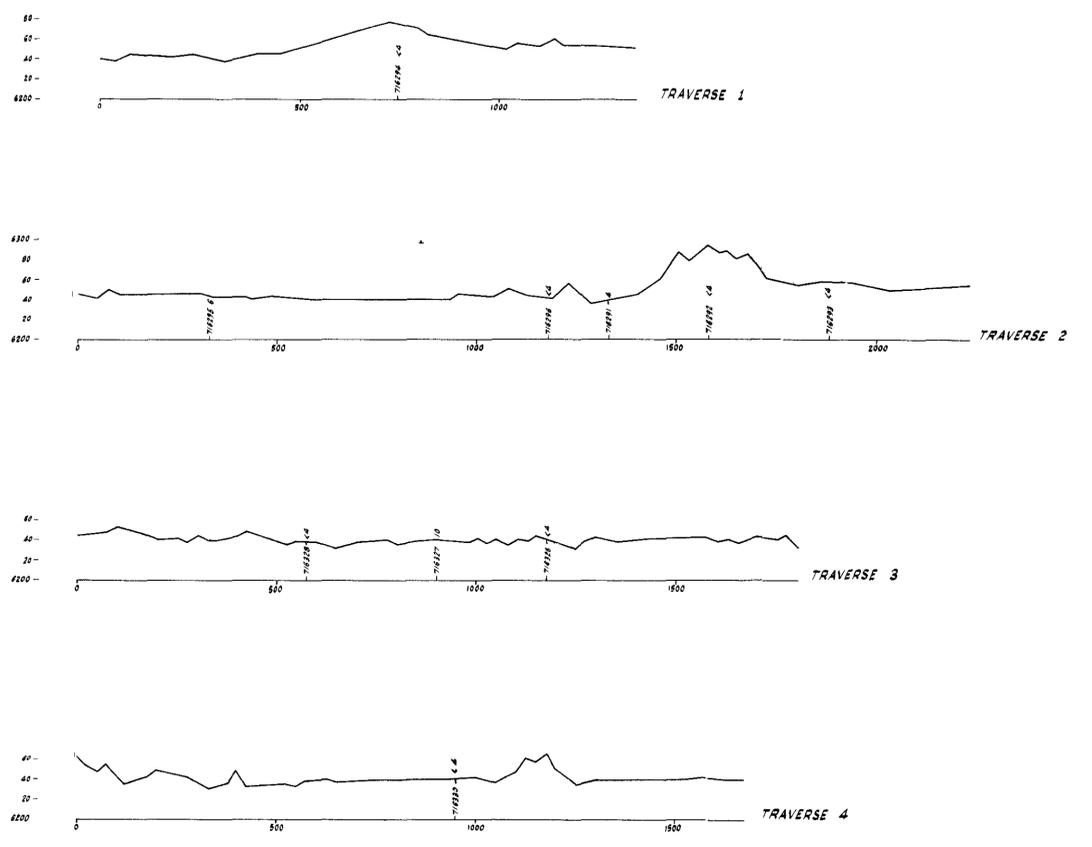
**C.R.A. EXPLORATION PTY. LIMITED**

**E.L. 1/77 - ROCKY CAPE**  
**GRANVILLE WEST PROSPECT 2823**  
**RECONNAISSANCE - GEOLOGY,**  
**GEOPHYSICS AND GEOCHEMISTRY.**

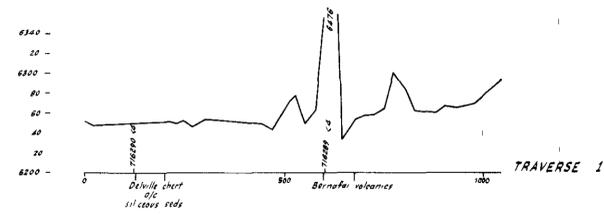
geologist: M.P.	scale: 1:10000	report no: 9927
drawn: R.G.W.	date: 6:4:79	plan no: Tv 6



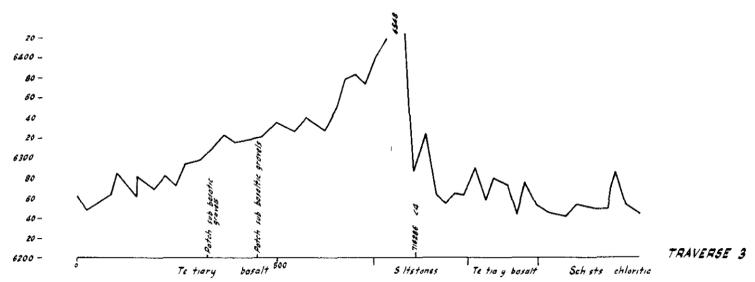
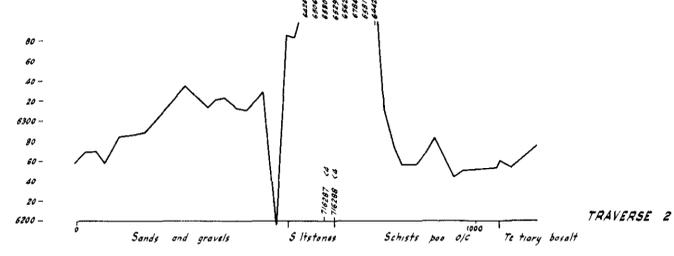
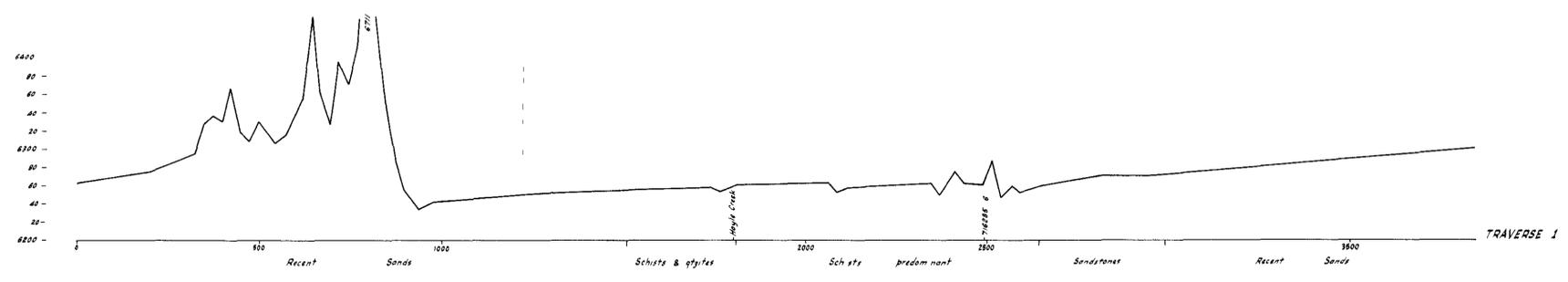
PIEMAN HEAD AREA



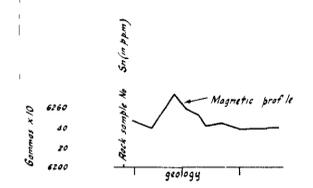
AHRBERG BAY AREA



HOYLE CREEK AREA



Key



057051

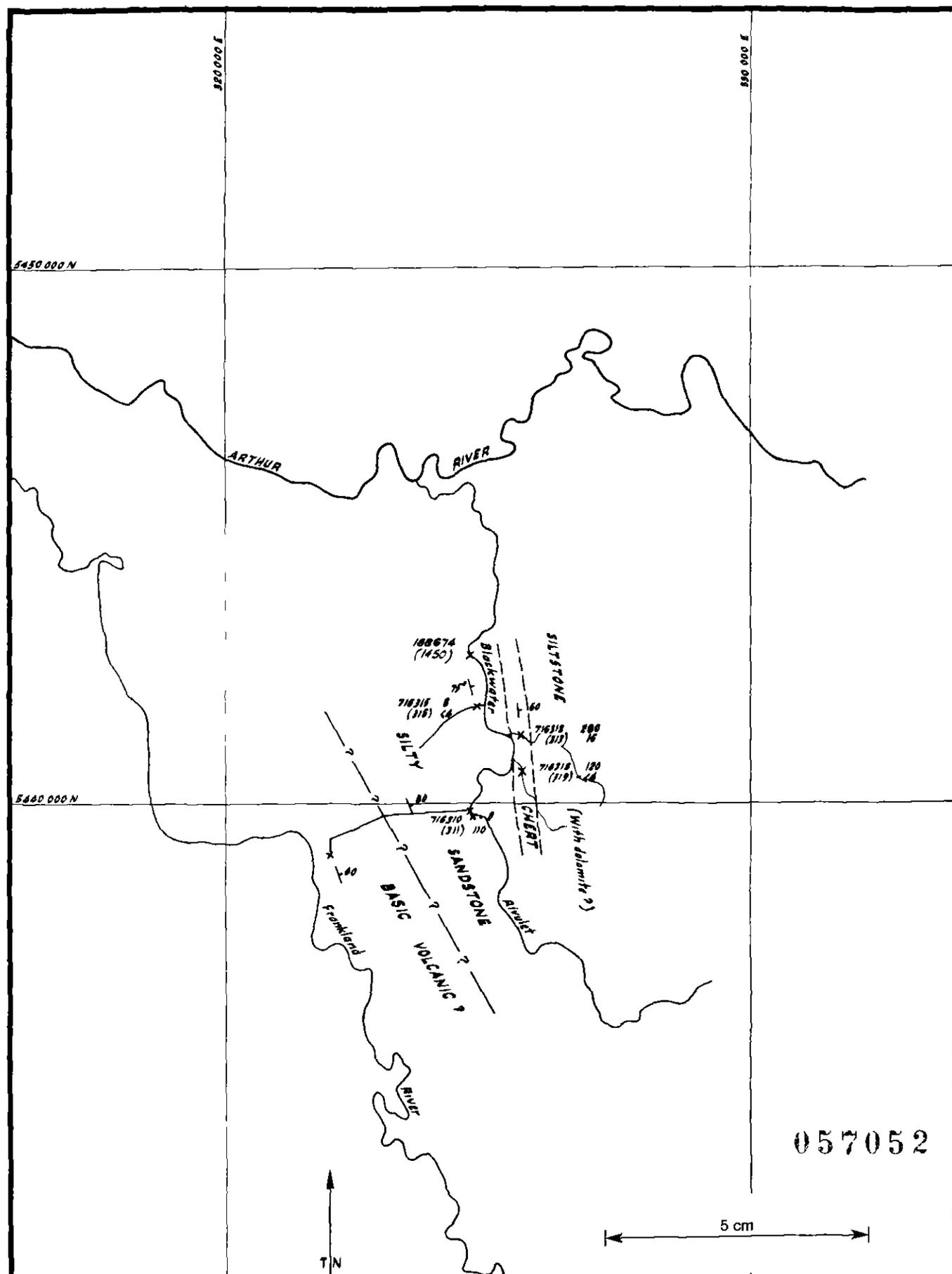
NOTE - FOR ALL TRAVERSES NORTH IS TO THE LEFT  
80-1469

CRA EXPLORATION PTY LIMITED  
E.L. 1/77 ROCKY CAPE - PIEMAN BLOCK  
GEOLOGICAL, MAGNETIC, GEOCHEMICAL  
ROCK SAMPLING TRAVERSES 2824  
PIEMAN HEAD - HOYLE CREEK AREA

geologist	T.M.P.	scale	1:100000	report no	9927
drawn	T.G.S.	date	Jan 1980	plan no	Tv 5

5 cm

048



057052

CRA EXPLORATION PTY LIMITED

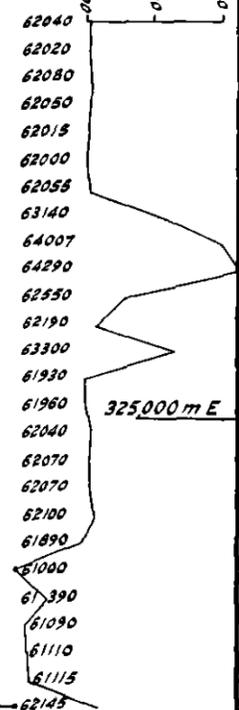
E L 1/77 ROCKY CAPE  
 ARTHUR RIVER BLOCK  
 BLACKWATER RIVULET FOLLOW-UP

Key

Sample No Sn  
 X 716310 8 Panned Con  
 (311) 110 80# Stream sed

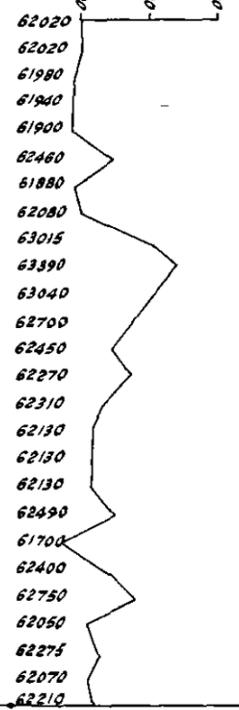
geologist	TMP	scale	1 100000	report no	9927
drawn	TGDS	date	Dec 1979	plan no	Tv 7

LINE 100 N



325,000 m E

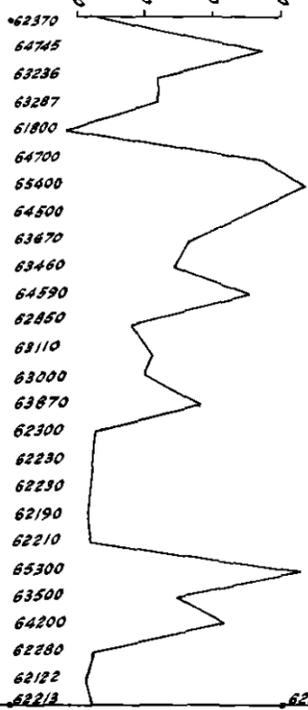
LINE 97 N



5434 000 m N

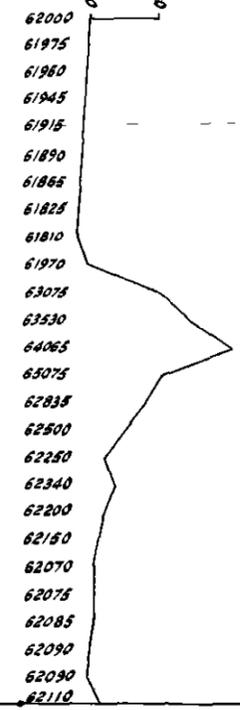
5434 000 m N

LINE 94 N



LINE 91 N

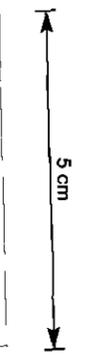
LINE 88 N



5433 000 m N

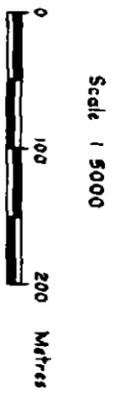
5433 000 m N

LINE 78 N



325,000 m E

2823



057053

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CRA EXPLORATION PTY LIMITED

FRANKLAND MAGNETIC ANOMALY

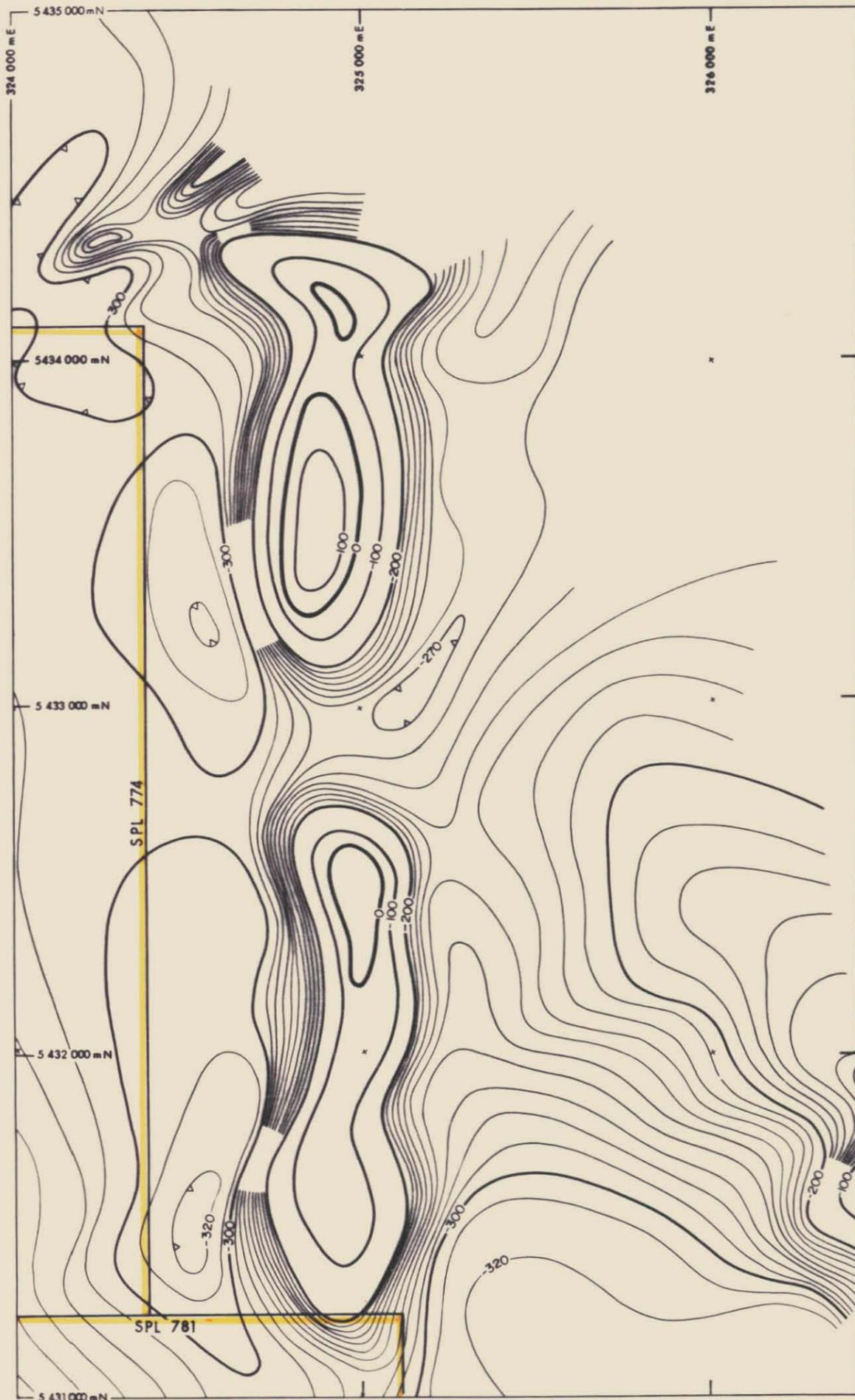
EL 1/77 - ROCKY CAPE

GROUND MAGNETIC RESULTS

geologist TMP scale 1:5000 report no 9927

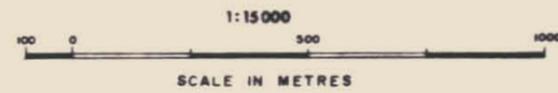
drawn TGDs date Dec 1979 plan no TV 8



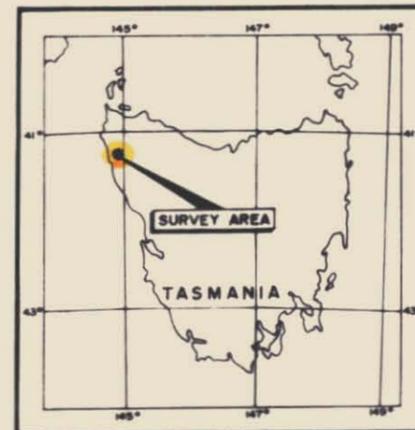


### SURVEY SPECIFICATIONS

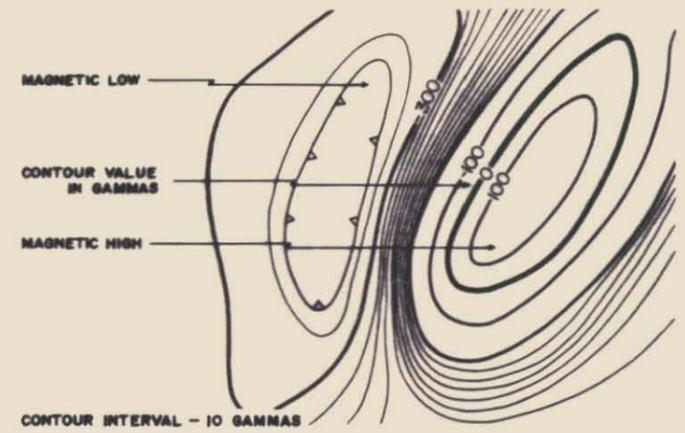
AIRCRAFT ..... BELL 206 B  
 MAGNETOMETER ..... VARIAN 4937A PROTON PRECESSION  
 USING TOWED BIRD CONFIGURATION WITH 37m CABLE  
 DIURNAL RECORDER ..... GEOMETRICS G826 PROTON PRECESSION MAGNETOMETER  
 WITH RUSTRAK RECORDER & CRYSTAL CLOCK  
 ALTIMETER ..... BONZER TRN-70  
 ANCILLIARY EQUIPMENT ..... GEDEX INTERVALMETER,  
 GEDEX DIGITAL ACQUISITION SYSTEM  
 CENTURY 444 7 CHANNEL ANALOGUE LIGHT BEAM RECORDER  
 VINTEN 16 mm GROUND TRACKING CAMERA  
 READING INTERVAL ..... 1.0 SECOND  
 NOMINAL AIRCRAFT SPEED ..... 60 KNOTS  
 NOMINAL AIRCRAFT SURVEY ALTITUDE ..... 90 METRES  
 SENSOR CLEARANCE 75 METRES



### LOCATION

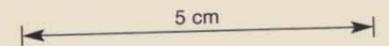


### REFERENCE



THE DATA HAS BEEN ADJUSTED FOR DIURNAL VARIATION WITH AN ADOPTED VALUE OF 62255 GAMMAS AT THE DIURNAL BASE STATION AT WYNYARD AERODROME 40° 59' 51" S AND 145° 43' 34" E. THE SENSOR HEIGHT WAS 2 METRES. THE DATUM FOR THE TOTAL MAGNETIC INTENSITY CONTOURS IS THE INTERNATIONAL GRID REFERENCE FIELD 1979-25.

057055



80-1469

C R A EXPLORATION PTY LIMITED			
E.L. 1/77 ROCKY CAPE FRANKLAND MAGNETIC ANOMALY LOW LEVEL AEROMAGNETIC SURVEY CONTOUR PLAN			
			2827
Ref.	SK 55.3	Scale	1:15000
Geol.	M.P.	Report No	9927
Drawn	M.A.G. FEB.1980	Plan No	Tv 11