592001

CRA EXPLORATION PTY. LIMITED

ROCKY CAPE EL 1/77

PROGRESS REPORT ON THE TEMMA AREA

JANUARY 1983

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Report No. 11983

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CONTENTS

1. SUMMARY

The Temma area lies approximately 35 kilometres south of Marrawah and 15 kilometres west of Balfour in the north-western section of EL 1/77.

Previous exploration (Herrman and Sumpton 1982) showed that a series of discordant magnetite bodies with elevated geochemical values occured in the area. Two drillholes were targeted to intersect the magnetite lodes to ascertain the possibility whether these bodies contained economic base metal/gold mineralisation similar to that which occurs at Tennant Creek, Northern Territory.

The first drillhole DD82 LE1 intersected 10 metres of 0.47% copper in Shales and Quartzites adjacent to the magnetite lode. The second drillhole DD82 PG1 intersected 3 metres of 1.95% lead and 12.9 gm/t silver within the magnetite horizon. Several thin zones of massive arsenopyrite were also intersected together with low grade copper mineralisation.

As a consequence of the drilling results a programme of bedrock geochemical sampling together with mapping and ground magnetometer traverses was undertaken to determine whether economic sulphide mineralisation, adjacent or along strike from the magnetite facies occurs. A series of grid lines approximately one kilometre apart were sampled between the Strickland and Possum Creek grids (Herrman and Sumpton 1982) using a Bombardier mounted auger rig. This programme is approximately 40 percent complete and will be finished in 1983.

2. INTRODUCTION

This report details the drilling programme during October, 1982 and reports briefly on the follow-up bedrock geochemical sampling programme partially completed late in 1982.

EL 1/77 was granted to CRA Exploration Pty. Ltd., on the 28th March, 1977. Early in 1980 Geopeko entered into a Joint Venture agreement on EL 1/77.

The Temma area was systematically explored by Geopeko during 1980 - 81. An aeromagnetic survey was flown to locate large magnetic anomalies in the area. Many of these anomalies were gridded and geologically mapped together with soil/rock chip geochemistry and geophysical surveys. The results showed crosscutting magnetite lodes associated with anomalous copper-titanium geochemistry (Herrman and Sumpton 1982).

Two grids (Little Eel and Possum) were selected for followup drilling. The Little Eel grid showed a ground magnetic anomaly of 7000 gammas which indicated a magnetite lode dipping steeply to the east. This anomaly had a coincident 800 ppm soil copper anomaly with a strong V.L.F. - E.M. crossover. Earlier prospectors had sunk a 'shaft' on a series of quartz veins about 60 centimetres wide some 50 metres west of the magnetite lode. These veins contained upto 1.6% Cu, 24 gm/t Ag and 0.09 gm/t Au. The Possum Grid was drilled on a 2.54% Cu, 5000 ppm Pb soil anomaly coincident with a V.L.F. - E.M. and a 4000 gamma ground magnetic anomaly.

This report details the drilling results and outlines the initial portion of the bedrock geochemical sampling programme. The area will be re-assessed at the conclusion of the bedrock geochemical programme.

3. CONCLUSIONS

The drilling confirmed magnetite lodes are in a crosscutting relationship to the surrounding laminated siltstones and minor quartzites.

The surrounding sedimentary sequence also has potential to host economic quantities of sulphide mineralisation. Sediments on the hanging-wall? side of the magnetite lode on the Little Eel prospect returned a value of 10 metres at 0.47% copper.

Mineralisation associated with the magnetite lode at the Possum Grid indicated the potential of the area for economic sulphide deposition along strike from the magnetite lodes.

4. RECOMMENDATIONS

The bedrock geochemical sampling between the Possum and Strickland grid be completed. Anomalous values be followed up with infill gridding and sampling.

A bedrock geochemical sampling programme be extended to cover all magnetite lode extensions in the Temma area depending on the initial results.

5. GEOLOGY

The geology of the area was described prospect by prospect in Herrman and Sumpton's report 1982. A brief review of the general geology follows.

The rocks are mostly comprised of finely laminated 'pjama' psammo-pelitic siltstones and medium grained fairly clean, well sorted sub-ordinate quartzites. The general strike is north to north-west with moderate to steeply dipping beds to the east.

The magnetite lodes are generally parallel to strike of the enclosing sediments but are much more steeply dipping (intrusion along cleavage?). They have a variable iron composition and have associated with them considerable amounts of iron amphibole (grunerite), siderite, chlorite - stilpnomelane, sericite, quartz and sulphides.

6. DRILLING

6.1 Little Eel Prospect

On the Little Eel grid the 100N line was found to have a coincident ground magnetic anomaly (7000 gammas) with a geochemical soil anomaly (800 ppm copper) and a strong V.L.F. - E.M. crossover between 10 and 30 metres east of the base line. The drillhole was sited at 100N 86E and was drilled at 225^{o}m (grid west) depressed at -50^{o} to intersect the steeply east dipping magnetite lode at 60 metres.

The magnetite lode was intersected at 85 metres indicating the Little Eel lode was dipping steeply west similar to the other magnetite lodes in the Temma area. The hole was logged in detail (refer Appendix One) and several samples were dispatched for petrological descriptions (refer Appendix Two) and a drillhole section was drawn (TASh 1124).

The hole was percussion drilled to 36.5 metres before water flow became too heavy to lift the cuttings. Water was intersected in a fault? at approximately 15 metres.

The magnetite lode seemed to be parallel to the strike of the sediments but its crosscutting nature could not be confirmed due to the soft nature of the rocks (extreme core loss) on either side of the magnetite lode itself.

Between 14 and 24 metres the percussion chippings averaged 0.47% Cu and a thin breccia zone at 38.15 metres returned a value of 1.14% Cu and 10 gms/t Ag over 1.59 metres. No significant mineralisation was associated with the magnetite lode.

6.2 Possum Prospect

The second hole was sited on line 10800N 10242E to intersect a magnetite lode at 60 metres. The hole was drilled 140^{o}m (grid east) depressed at -60^{o}. The surface anomalies consisted of a 4000 gamma ground magnetic anomaly, V.L.F. - E.M. anomaly coincident with a 2.54% Cu, 5000 ppm Pb soil geochemical anomaly.

The hole was percussion drilled to 11 metres and completed at 87 metres. The magnetite lode was intersected between 41.8 and 56.6 metres. The contact zones showed the magnetite - chlorite lode to have a definite crosscutting relationship with the enclosing siltstones. The hole was logged (refer Appendix One) and several samples were dispatched for petrological descriptions (refer Appendix Two) and a section prepared (TASh 1123).

Mineralisation was mainly confined to the magnetite lode in this hole although copper values upto 0.7% were recorded in the foot-wall? sediments. A three metre section at 50 metres depth within the magnetite lode assayed 1.95% Pb and 12.9 gm Ag. Copper mineralisation averaging 0.25% Cu was intersected over 7.48 metres between 44.02 and 51.5 metres. Several thin sections of massive arsenopyrite were also noted. The magnetite lode was initially assayed for gold by AAS and one sample returned a value of 23.4 gm/t Au. The sample were resubmitted for confirmation by fire assay and the result was below detection limit for this sample however other AAS gold results were confirmed by the fire assay results. One sample from 50.5 - 51.5 metres recovery 0.6 metres which contained 1.78% Pb, 26 gm/t Ag and 2% As returned a value of 1.08 gm/t Au, all other gold values were below 300 ppb.

7. REGIONAL BEDROCK GEOCHEMICAL SAMPLING

From the results of the Possum Grid drillhole a series of grid lines approximately 1000 metres apart were cut, mapped and bedrock auger sampled to determine whether the siltstone/quartzite sequence along strike could contain indications of economic mineralisation. This programme is approximately 40% complete and details can be found in Appendix Three.

8. REFERENCES

HERRMAN, W., SUMPTON, J. 1982 Progress Report EL 1/77 Temma Area. 1981. Geopeko Report.

9. KEYWORDS

Drill-diamond, mineralisation - copper - lead - gold, chloritic alteration, magnetite lodes.

10. LOCATION

Burnie SK55 - 3 1:250,000 Sheet Area.

11. LIST OF PLANS

Plan No.	Title	Scale
TASh 1277	Locality Plan - Temma Area	1 : 500 000
TASh 1124	Little Eel Grid Drillhole Section DD82 LE1	1 : 1000
TASh 1123	Possum Grid Drillhole Section DD82 PG1	1 : 1000

12. LIST OF APPENDICIES

Appendix One. Drillhole Logs
DD82 LE1
DD82 PG1

Appendix Two. Petrological Report

Appendix Three. Report on Regional Soil Geochemistry and Geological Mapping in the Temma Area EL 1/77.

APPENDIX ONE

DRILLHOLE LOGS

DD82 LE1

DD82 PG1

009

592010

AMG 306980E 5432110 N

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 1 of 5

TENEMENT NAME Rocky Cape No. 4/77

PLAN – MAP REFERENCE Temma - Little Eel Grid

CO-ORDINATES 100N 086E AZIMUTH 225°m DRILLERS Overland COMMENCED 05·10·82 DEPTH 109·7 metres HOLE No. DD82 LE1

RL COLLAR ____ INCLINATION –50° DRILL TYPE Scout 250 COMPLETED 08·10·82 CASING LEFT Nil DPO No(s) 30211

DEPTH From (M)	DEPTH To (M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by ANALABS) Cu	Pb	Zn	Ag	Cp/Py	As	Fe	W	Sn
					PERCUSSION DRILLED TO 36·5m														
					INTERSECTED H2O AT 15m – NEEDED														
					FOAM TO LIFT CUTTINGS – MUCH														
					CONTAMINATION.														
					INTERBEDDED QUARTZITES AND SILTSTONES														
0·0	8·0	–	–		Weathered siltstones and quartzites	Soil 0–1·0m	972935*	0·0	2·0	?	355	20	280	1·5	10/–	x	–	10	7
					lt yellow gy sl weathered qtzites with	py crystals = 1%	972936*	2·0	4·0	?	135	5	35	0·5	5/–	x	–	x	3
					occ lt purple bands. At 5m becomes		972937*	4·0	6·0	?	920	15	40	x	5/	x	–	10	8
					med–lt gy qtzites and med–lt gy	sl py	972938*	6·0	8·0	?	685	5	30	x	15/–	x	–	10	7
					laminated siltstones	sl chloritic													
					QUARTZITES														
8·0	14·0	–	–		med and lt gy qtzites, occ silty	Occ py > cp minor qtz veining, min²	972939*	8·0	10·0	?	880	5	30	1·0	15/–	x	–	10	6
					interbeds. Becomes dk gy qtzite at	in veins.	972940*	10·0	12·0	?	465	5	40	x	10/–	x	–	x	3
					10m. Some minor bl chalky at	min² stronger at 12m cp + py min²	972941*	12·0	14·0	?	1100	x	40	x	5/–	x	–	X	5
					12m.	occ. with sl. chloritic zones – occ. with													
						qtz veins.													
					SHALES AND QUARTZITES														
14·0	20·0	–	–		Bl shale fragg with 5% qtz	5% qtz veins becomes 10% qtz veins	972942*	14·0	16·0	?	4800	x	50	0·5	10/–	x	–	x	6
					veining. At 16·0m some V.dk	at 16m. Cp > py. Occ qtzite bands	972943*	16·0	18·0	?	4250	15	105	1·0	45/–	x	–	x	4
					gy siltstones/qtzites.	chloritic – med gy gn.	972944*	18·0	20·0	?	5900	25	140	0·5	50/x	x	–	x	7

* PERCUSSION SAMPLES

592011

SHEET No. 2 of 5

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

TENEMENT NAME: ROCKY CAPE No. 1/77

PLAN – MAP REFERENCE: TEMMA – LITTLE EEL GRID

CO-ORDINATES: 100N 086E AZIMUTH: 225°m DRILLERS: OVERLAND COMMENCED: 05.10.82 DEPTH: 109.7 metres HOLE No. DD82 LE 1

RL COLLAR: INCLINATION: –50° DRILL TYPE: SCOUT 250 COMPLETED: 08.10.82 CASING LEFT: Nil DPO No(s) 30211

ASSAY VALUES (Analysed by AMDEL)

DEPTH From (M)	DEPTH To (M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	Cu	Pb	Zn	Ag	Co/Au	As	Fe	W	Sn
20.0	28.0	–			QUARTZITES														
					Med-dk gy qtzites, maybe some minor	5–10% recf qtz - some vuggy	972945*	20.0	22.0	?	4250	20	105	1.5	30/–	x	–	15	3
					bl sl.	lining qtz py > cp.	972946*	22.0	24.0	?	4550	20	90	0.5	40/–	x	–	x	5
					Becomes med gn gy sl. chloritic		972947*	24.0	26.0	?	2250	5	75	0.5	25/–	x	–	x	4
					at 22m.		972948*	26.0	28.0	?	1700	5	70	0.5	20/–	x	–	x	x
					At 26m 5% bl sl - contamination?														
28.0	36.5	–	–		SILTSTONES AND QUARTZITES														
					med-dk gy qtzites 70% + 10% qtz vein	10% vein material	972949*	28.0	30.0	?	2250	10	70	0.5	25/–	x	–	x	x
					material and dk gn gy chloritic	py > cp more cp at 30m.	972950*	30.0	32.0	?	1800	5	70	x	15/–	x	–	x	x
					shaly siltstones.		972951*	32.0	34.0	?	1850	15	60	1.0	15/–	x	–	x	x
							972952*	34.0	36.5	?	1000	5	50	x	25/–	x	–	x	x
					QUARTZITES														
36.5	38.5	1.65	BQ		Finely laminated <1mm med + dk	Occ joints - py min^n. At 38m occ	972958^G	36.5	38.15	1.65	225	15	70	x	35/–	x	–	35	4
					gy qtzites v.f.g.	thin 1-2mm qtz veins x-cutting.													
					BRECCIA ZONE														
38.15	39.74	1.47	BQ		Qtz vein breccia zone. minor qtzites	38.25–38.35 – 60% py	972959	38.15	39.74	1.47	1.4%	1250	1700	10.0	70/600	x	–	x	x
					as angular inclusions in	Chlorite alt^n - moderate minor shear													
					vein material	zones - slickensided - chloritic.													
					QUARTZITES														
39.74	58.50	17.5	BQ		med-dk gy - dkr zones fine grained	Chlorite alt^n sl - mod. py min^n	972960	39.74	41.0	1.0	650	45	85	x	15/–	x	–	x	x
					more silty - shaly.	specks and blebs (occ) > cp min^n.	972961	41.0	42.2	0.76	580	25	30	1.0	10/–	x	–	x	x
					Qtzites banded - coarser with depth	41.5 m Qtz vein brecciated	972962^G	42.2	45.23	2.50	460	15	50	x	20/–	x	–	45	9
					with dkr more silty interbeds	core X cutting.	972963	45.23	45.62	0.39	8750	35	80	4.0	15/–	x	–	x	7
					Qtzite beds upto 4cm wide		972964^G	45.62	48.15	2.50	435	10	45	0.5	20/–	x	–	35	5

G GRIND SAMPLE

* PERCUSSION SAMPLES.

592012 1

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 3 of 5

TENEMENT NAME ROCKY CAPE No. 1/77

PLAN – MAP REFERENCE TEMMA – LITTLE EEL GRID

CO-ORDINATES 100N 086E AZIMUTH 225°m DRILLERS OVERLAND COMMENCED 05.10.82 DEPTH 109.7 metres HOLE No. DD82 LE 1

RL COLLAR .... INCLINATION –50° DRILL TYPE SCOUT 250 COMPLETED 08.10.82 CASING LEFT Nil DPO No(s) 30211

DEPTH From (M)	DEPTH To (M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	Cu	Pb	Zn	Ag	Co/Au	As	Fe	W	Sn
											ASSAY VALUES (Analysed by ANALABS)								
					SS dykelets observed facing	Minor bedding displacements upto 5mm –													
					east (uphole). Increasing	some beds show a greater degree	972965 G	48.15	50.8	2.65	295	20	35	1.0	25/–	x	–	10	5
					chlorite alt^n with depth	of chloritic alt^n than others. Cp stringers	972966 G	50.8	53.25	2.45	275	20	30	0.5	20/x	x	–	30	9
						1–2mm wide 45.3 – 45.6m – displace	972967 G	53.25	56.3	3.05	145	30	55	0.5	25/–	x	–	15	4
					THIN SECTION 64.2m (975868)	bedding upto 1–2mm.	972968 G	56.3	58.5	2.2	85	15	25	0.5	10/–	x	–	x	x
					INDURATED SILTSTONE.	EAST FACINGS – uphole													
						45.9m pale green chlorite veinlet													
						46.9m 20cm qtz vein – sweat qtz?													
						Increasing chlorite alt^n with depth													
						50.4m minor py min^z													
						52.3m 10cm qtz-chlorite vein + 20% py													
						53m – core broken chlorite alt^n strong													
						54.7m – 56m mod-strong chlorite alt^n													
					SILTSTONES														
58.5	65.8	7.3	BQ		Mod-finely laminated creamy-gy	Mod. fractured. Jt L 67° at 64.2m	972969 G	58.5	61.4	2.9	120	20	25	x	20/–	x	–	15	x
					siltstones with thin qtz bands – chlorite	Joint and qtz vein at 64.8m V. chloritic	972970 G	61.4	64.04	2.64	310	10	40	1.0	20/–	x	–	35	x
					segregations in coarser grained	in general sequence only sl. chloritic	972971 G	64.04	65.08	1.76	245	5	35	0.5	20/–	100	–	40	1[illegible]
					beds	THIN SECTION 64.2m (975868)													
						INDURATED SILTSTONE													
65.8	76.3	8.67	BQ		QUARTZITES														
					Sl. silty of 1st metre – med. dk gy	Core moderately fractured. Jt L	972972 G	6508	69.10	3.0	275	10	135	x	45/–	x	–	140	
					core fairly broken – veined –	70° at 68.4m – minor thin qtz veins	972973 G	69.10	72.0	1.9	330	15	80	1.5	30/–	x	–	90	
					slickensided – micro faulting – beds	Core V. fractured at 68.7m – upto 20%	972974 G	72.0	74.6	2.07	280	10	60	x	25/–	x	–	55	
					displaced – some chloritic alt^n	py minor Cp. Thin healed vuggy qtz	972975 G	74.6	76.3	1.7	75	20	50	1.0	15/–	x	–	30	
					When core more massive more	veins. Jointing more prominent. Occ													
					thin qtz veins developed ≃ 1mm wide	slickensided core – bedding displaced													
						on micro-faults.													

G GRND SAMPLES.

592013

SHEET No. 4 of 5

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

TENEMENT NAME Rocky Cape No. 477

PLAN – MAP REFERENCE Temma - Little Eel Grid

CO-ORDINATES 100N 086E AZIMUTH 225°m DRILLERS Overland COMMENCED 05.10.82 DEPTH 109.7 metres HOLE No. DD82 LE1

RL COLLAR .... INCLINATION -50° DRILL TYPE Scout 250 COMPLETED 08.10.82 CASING LEFT Nil. DPO No(s). 30211

DEPTH From (M)	DEPTH To (M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	Cu	Pb	Zn	Ag	Co/Au	As	Fe	W	Sn
						72.4 - 72.9 Qtz chlorite vein - occ c̄													
						angular pieces of qtzite													
						75m py infilling of large open joint.													
					CHLORITIC QUARTZITE ZONE														
76.3	79.5	2.39	BQ		V. dk gn chlorite interbedded? with	V strong chlorite altn. Core V broken	972976	76.3	78.4	1.56	640	20	75	0.5	40/–	x	–	x	x
					minor qtzite bands. The whole zone	mod. mineralisation py > cp > zn	972977	78.4	79.5	0.83	615	20	70	x	35/–	x	–	x	3
					shows extensive alteration.	py cubes prevalent.													
					CHLORITE - MAGNETITE ALTN ZONE														
79.5	85.1	2.45	BQ		Almost entirely chlorite - magnetite -	V. strong altn zone. py minz Extreme	972978	79.5	81.5	0.80	110	10	80	1.0	45/x	100	20.3%	x	4
					V dk gn. py minz throughout Occ	core loss due to soft nature of core.	972979	81.5	83.35	1.05	50	15	120	x	40/x	100	24.8%	x	4
					thin med-gy leached? qtzite bands	Slickensided core - joints - faults -	972980	83.35	85.10	0.60	295	25	95	x	55/x	x	22.0%	x	8
					pyritic. Probably contains much	graphite development													
					Stilpnomelane	Occ. thin ≡ 1mm qtz veins.													
					MAGNETITE ZONE														
85.1	96.6	5.0	BQ		Enormous core loss 85.1 - 91.1m.	Small 20cm qtz vein at 85.1m minor	972981	85.10	91.10	0.23	780	60	55	x	30/x	x	13.6%	x	3
					Initially core preserved as small magn	py minz. V. great core loss 85.1 - 91.1m.	972982	91.10	92.40	1.13	630	50	70	x	35/x	x	43.0%	x	3
					lumps - weathered - feldspathic or	Extremely high magn susceptibility	972983	92.40	93.60	1.18	665	20	90	0.5	30/x	x	48.1%	x	3
					siderite matrix - mag lumps upto	readings.	972984	93.60	94.76	1.16	275	20	80	1.0	25/x	x	39.1%	x	x
					3mm diam. From 91.1m solid	minor S= more S= where core ol	972985	94.76	96.60	1.30	125	25	110	0.5	20/x	200	35.7%	x	3
					broken core occ rubbly zones.	oxidised - more haematitic.													
					Siderite - sericite schist zone	THIN SECTION 89.9m (975869)													
					at 93.8m - 94.0m and 92.1m	MAGNETITE - QTZ - SIDERITE ROCK													
					Sulphides more prominent where	THIN SECTION 93.8m (975870)													
					core ol, haematitic. minor acid	QUARTZ - MAGte - SERICITE ROCK													
					reaction - dolomitic? at 89.9m	THIN SECTION 96.4m (975871)													
						QUARTZ - MAGte - SIDERITE ROCK													

ASSAY VALUES (Analysed by ANALABS)

592014

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 5 of 5

TENEMENT NAME Rocky Cape No. 1/77

PLAN – MAP REFERENCE Temma – Little Eel Grid

CO-ORDINATES 100N 086E AZIMUTH 225°m DRILLERS OVERLAND COMMENCED 05.10.82 DEPTH 109.7 metres HOLE No. DD82 LE1

RL COLLAR .... INCLINATION -50° DRILL TYPE SCOUT 250 COMPLETED 08.10.82 CASING LEFT Nil DPO No(s) 3021

DEPTH From (M)	DEPTH To (M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	Cu	Pb	Zn	Ag	Co/Au	As	Fe	W	Sn
					QUARTZ CHLORITE CONTACT ZONE														
96.6	103.0	0.54	BQ		Extreme core loss 99.6-102.6 no core recovered – probably weathered mag^n zone. Core when present soft chloritic qtzites – vuggy leached.	Extreme core loss py min^2 slight.	972986	96.6	103.0	0.54	730	15	170	x	45/x	x	17.62%	x	3
					QUARTZITES AND SILTSTONES														
103.0	109.7	2.23	BQ		Thin dk gy qtzites in thin zones brecciated c̄ thin qz stringers containing angular chloritic fragments. Becomes finer grained more silty – siltstones.	Chlorite alt^n strong for first metre also bleached. Joints along 1-2mm movement – Slump features FACINGS – EAST (uphole) Jnt LS 65° at 109.2m.	972887	103.0	107.2	1.56	55	20	50	x	15/–	x	–	x	x
							972988	107.2	108.6	1.27	85	15	45	x	20/–	300	–	x	4
							972989	108.6	109.7	0.96	20	20	35	x	20/–	x	–	x	x
					THIN SECTION 103.1m (975872) CHLORITIC METAQUARTZITE.														
						HOLE NOT SURVEYED													
					E.O.H. 109.7 metres.														

ASSAY VALUES (Analysed by AN ALABS)

DRILLHOLE RESULTS.

38.15 39.74 1.59m @ 1.14 Cu 1700ppm Zn 10g/t Ag in a breccia zone

14.0 24.0 4750 ppm Cu

AMG 309930E 5429570N

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

5,92015 · SHEET No 1 of 4

TENEMENT NAME ROCKY CAPE No EL 1/77

PLAN – MAP REFERENCE TEMMA – POSSUM GRID

CO-ORDINATES 1080ON 1024E AZIMUTH 140°m DRILLERS OVERLAND COMMENCED 09·10·82 DEPTH 86·6 metres HOLE No DD82 P61

RL COLLAR INCLINATION –60° DRILL TYPE SCOUT 250 COMPLETED 12·10·82 CASING LEFT N:1 DPO No(s) 30211

DEPTH From (M)	DEPTH To(M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by ANALABS) Cu	Pb	Zn	Ag	Co/Au	As	Fe	W	Sn
					PERCUSSION DRILLED TO 11 metres COULD NOT GO FURTHER CAVING GROUND														
					SURFICIAL SANDS														
0·0	4·0	?			Dk br c-v.c.g. sands mod-well rounded		972953*	0·0	4·0	?	30	5	30	0·5	5/–	x	–	x	4
					QUARTZITES														
4·0	11·0	?			Med-dk gy qfzite some qfz vein material – minor oxidised joints		972954*	4·0	6·0	?	20	10	35	x	5/–	x	–	x	x
					Qfzite c-v.c.g. – sl. chloritic	Minor py min	972955*	6·0	8·0	?	20	10	50	x	10/–	x	–	x	6
					Occ lt gy qfzite bands (ca) 8cm		972956*	8·0	10·0	?	25	5	50	x	10/–	x	–	x	x
							972957*	10·0	11·0	?	25	5	45	x	10/–	x	–	x	15
					QUARTZITES														
11·0	26·5	14·89	BQ		Med gy sometimes finely banded – more silty zones	Tot LS very low – at 13·4m // to core	972990G	11·0	14·2	3·2	60	10	70	0·5	15/–	x	–	35	x
					At 15m core very broken – jointed – some chloromide development probably fault zone	direction. Minor slump features.	972991G	14·2	17·2	3·0	130	10	80	0·5	10/–	x	–	15	5
						Occ thin qfz veins cut core	972992G	17·2	20·2	2·44	80	15	35	x	5/–	x	–	10	6
						Some py upto 5% in thin bands.	972993G	20·2	23·2	2·95	35	10	40	0·5	20/–	x	–	15	6
						Core angles generally < 20°	972994G	23·2	26·5	3·3	30	35	70	x	25/–	200	–	x	7
						Py in veins at 21·7m. Mod chlorite alt^{n} at 23·2m & py min^{s}.														
						Quartzites show mod. chlorite alt^{n} over last 4m but LS ≈ 35° in this zone.														
						G GRIND SAMPLES * PERCUSSION SAMPLES														

592016 SHEET No. 1 of 4

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

TENEMENT NAME ROCKY CAPE No. EL 7/77

PLAN – MAP REFERENCE Temma - Possum GRID

CO-ORDINATES 10800N 1024E AZIMUTH 140°m DRILLERS OVERLAND COMMENCED 08·10·82 DEPTH 86·6 metres HOLE No DD82 RC1

RL COLLAR ..... INCLINATION –60° DRILL TYPE SCOUT 250 COMPLETED 12·10·82 CASING LEFT Nil DPO No(s) 30211

DEPTH From (M)	DEPTH To (M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by ANALABS) Cu	Pb	Zn	Ag	Co/Au	As/Mo	Fe	W	Sn
26.5	32.0	5.5	BQ		QUARTZITE – CHLORITE ZONE														
					Med gy qtzites with X-cutting dk gy chlorite + minor magnetite, minor S^{2} and carbonate. Qtzite also show some chloritic alt^{n}	Mod – low int. angles generally less than 45° and as low as 15° at 32m. Qtzites generally unmineralised chlorite zones contain minor py	972995	26.5	27.7	1.2	60	15	80	0.5	25/–	x/–	–	x	6
							972996	27.7	29.2	1.5	65	25	30	x	10/–	x/–	–	x	x
							972997	29.2	30.4	1.2	15	25	25	x	5/–	x/–	–	x	x
							972998	30.4	32.0	1.6	25	25	35	0.5	15/–	x/–	–	x	9
					At 27m some silty bands are chloritic.														
						THIN SECTION 29.9m (975873) STILPNOMELANE METAQUARTZITE.													
					QUARTZITES WITH CHLORITE/TALC														
32.0	38.5	5.35	BQ		Med gy qtzites, fairly massive, X-cutting zones of dk gy chlorite and/or pale creamy white talc – sericite. Non-magnetic	Int Ls between 10 – 30°	972999	32.0	33.3	1.13	875	40	20	0.5	10/–	200/–	–	10	9
							973000	33.3	34.8	1.50	55	30	40	0.5	15/–	x/–	–	x	x
					Occ thin qtz veinlets – some evidence of minor dislocation of bedding.	Occ 5^{m} wlt chlorite/talc zones	972382	34.8	36.15	1.35	15	125	80	1.0	10/–	100/–	–	x	6
					At 37.4m broken core – slickensided	At 32.1m block of Qz	972383G	36.15	38.5	2.35	35	45	60	1.0	25/–	1000/–	–	30	7
						Minor qtz veining – jointing – chlorite developed along joint planes.													
					TALC – CHLORITE – GARNET ZONE														
38.5	41.80	2.25	BQ		No recognisable qtzites in this zone :– No int Ls. Friable 2m mainly Talc – chlorite (garnet?) wlt py. Chlorite almost black – often broken – slickensided at 41.2 – 41.8m core loss.	Zone – Non magnetic	972384	38.5	39.4	0.81	400	80	55	2.0	85/x	200/x	15.2%	x	x
							972385	39.4	40.2	0.80	305	20	85	x	30/x	200/x	16.8%	x	5
							972386	40.2	41.8	1.45	120	50	225	x	50/x	400/x	21.7%	x	x
						Thin Section 40.7m (975874) CHLORITISED GARNET ROCK.													
						G GROUND CORE.													

592017

SHEET No. 3 of 4

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

TENEMENT NAME ROCKY CAPE No. EL 1/77

PLAN – MAP REFERENCE TEMMA - POSSUM GRID

CO-ORDINATES 10800N 10242E AZIMUTH 140°m DRILLERS OVERLAND COMMENCED 08:10:82 DEPTH 86.6 metres HOLE No. DD82 PG1

RL COLLAR ..... INCLINATION -60° DRILL TYPE SCOUT 250 COMPLETED 12:10:82 CASING LEFT Nil DPO No(s) 30211

DEPTH From (M)	DEPTH To (M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by AMDEL) Cu	Pb	Zn	Ag	Co/As	As	Fe	W	Sn
18	56.6	13.35	BQ		MAGNETITE ZONE														
					Dk gy magnetite in creamy	Chlorite? alt^n in some zones As	972387	41.8	42.9	1.1	505	20	190	1.0	40/x	1500	35.2%	x	x
					green mass (siderite). Magnetite	min^2 46.4 – 46.7m; 51.0 – 51.4m.	972388	42.9	44.02	1.12	1850	40	300	3.0	45/0.04	1200	39.6%	x	3
					occurs as blebs and specks. Chlorite	Pb 51.4 and 53.1m – py widespread	972389	44.02	44.67	0.65	3450	75	305	6.5	70/0.18	2.16%	33.4%	x	x
					alt^n dk gy gy in several places. –	min Cp + Zn Vuggy zone above	972390	44.67	45.95	1.28	655	20	220	0.5	50/x	500	39.8%	x	5
					this material maybe Stilpnomelane	evidence of carbonate (siderite?)	972391	45.95	47.0	1.05	2950	105	225	5.5	35/0.27	1.40%	35.9%	x	x
					(Fe_5Si_{10}) described in thin section	Magnetite halo Pb at 53.2m	972392	47.0	48.5	1.35	5450	60	415	12.0	40/0.09	100	38.9%	x	6
						Haematite developed after last 50cm.	972393	48.5	50.5	1.1	2250	330	380	5.0	40/0.01	x	33.6%	x	5
							972394	50.5	51.5	0.6	2000	1.78%	540	26.0	35/1.08	2.0%	37.8%	x	3
						Thin Section 44.8m (975875)	972395	51.5	52.9	1.4	420	780	340	0.5	55/Bk	200	43.3%	x	x
						Magnetite – Stilpnomelane – Siderite	972396	52.9	53.5	0.6	285	6.58%	325	60.0	40/0.22	x	31.9%	x	x
						Select.	972397	53.5	54.8	1.3	540	265	400	1.5	50/0.01	x	46.5%	x	x
						Thin Section 46.4m (975876)	972398	54.8	55.4	0.6	665	3300	325	5.0	40/0.05	x	38.4%	x	x
						Magnetite – Grunerite – Siderite	972399	55.4	56.6	1.2	3450	135	580	5.0	50/0.12	700	42.1%	x	x
56	57.7	095	BQ		CHLORITIC CONTACT ZONE														
					V. chloritic (Stilpnomelane?) bd	Qtz vein + 30% S$^=$ at 56.6m – 10cm.	975001	56.6	57.7	095	1850	45	360	4.0	30/0.05	400	2.15%	x	4
					siltstones mainly brecciated.	Fault pug at 56.8m – core very													
						broken – slickensided – minor S$^=$													
57.7	86.6	28.72	BQ		SILTSTONES														
					Dk gy finely laminated –	Core very fractured – many fine (thin)	975002	57.7	59.0	1.28	1250	35	70	1.0	20/–	200	–	25	4
					massive.	qtz veins 1–3 mm x cutting core	975003	59.0	60.4	1.36	685	40	45	0.5	15/–	x	–	x	5
						min bedding displacements.	975004^G	60.4	63.4	3.0	90	20	45	x	25/–	x	–	30	x
						Some chloritic alt^n At 58.4m	975005^G	63.4	66.4	3.0	150	25	25	x	30/–	x	–	x	6
						brecciated chlorite zone 10cm	975006^G	66.4	69.63	3.23	230	20	30	x	20/–	200	–	x	x
						wide Large joint 2nd dev^n development													
						of qtz crystals at 59.3m – minor													
						Cp min^2													
						G GROUND CORE													

592018

SHEET No. 4 of 4

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

TENEMENT NAME ROCKY CAPE No. 1/77

PLAN – MAP REFERENCE TEMMA – POSSUM GRID

CO-ORDINATES 10800N10242E AZIMUTH 140°m DRILLERS OVERLAND COMMENCED 08:10:82 DEPTH 86.6 metres HOLE No DD82 PG1

RL COLLAR ____ INCLINATION −60° DRILL TYPE SCOUT 250 COMPLETED 12:10:82 CASING LEFT Nil DPO No(s) 30211

DEPTH From (M)	DEPTH To(M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by ANALABS) Cu	Pb	Zn	Ag	Co	As	Fe	W	Sn
					Becomes less laminated at 60m.	Int L 8° at 59.5m													
					Chlorite alt^n decreases with depth	Int L^s 12-18° after 60m	975007^G	69.63	72.23	2.6	1050	25	40	X	25	X	–	20	9
						Cross cutting qtz-chlorite veins?	975008	72.23	74.23	2.0	405	15	25	x	20	X	–	x	8
						from 60-66m then decrease in int L^s	975009	74.23	75.30	1.07	1800	30	40	x	20	x	–	x	5
						of these zones is 70-90°	975010	75.30	76.30	1.0	7000	25	55	x	40	x	–	x	5
						Some of these zones brecciated eg	975011	76.30	77.50	1.2	455	30	75	x	30	x	–	x	7
						65, 65.1, 66.4, 62.4, 61.7, 70.3	975012	77.50	78.00	0.38	3950	90	160	x	200	x	–	75	x
						Qtz veins usually at discordant	975013^G	78.0	80.9	2.90	460	20	75	0.5	10	200	–	30	5
						bedding	975014^G	80.9	83.7	2.80	1000	15	60	x	10	x	–	x	4
						At 71m py > cp in stringer	975015^G	83.7	86.6	2.90	65	20	65	x	35	100	–	20	4
						type min^l Minor s^= zones (eg) >50% s^=													
						even occasionally esp in zone													
						75-78m – core at more fractured													
						Int L 43° at 84.5m													
					E.O.H. 86.6m	HOLE NOT INTERNALLY SURVEYED		DRILLHOLE RESULTS.											
								50.5	53.5	3m		1.95% Pb	129 Ag						
								44.02	51.5	7.48m	2520 Cu								
								SEVERAL ZONES CONTAINED UPTO 2.1% As											
								70.0	78.0	UPTO	7000 ppm Cu								

APPENDIX TWO

PETROLOGICAL REPORT

Central Mineralogical Services

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

Mr. G.B. Weber
Senior Geologist
C.R.A. Exploration Pty. Ltd.
P.O. Box 138
BURNIE / TAS. 7320

12th November, 1982

REPORT CMS 82/10/34

YOUR REFERENCE:	D.P.O. No. 30210
DATE RECEIVED:	22nd October, 1982
SAMPLE NOS.:	975868 - 975876
SUBMITTED BY:	G.B. Weber
WORK REQUESTED:	Petrology

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

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

H.W. Fander, M. Sc.

REPORT CMS 82/10/34

Samples 975868 - 975876

Nine rock samples were received for petrological descriptions; thin-sections were prepared of all samples, and six polished sections were also prepared and examined, mainly to identify sulphides. Each sample is briefly described in the accompanying table.

Summary

The suite consists of variably but generally severely metasomatised sediments; the exceptions are 975868 which is, at best, only incipiently metamorphosed, and 975872 and 975873 which are relatively unreactive quartzose rocks in which relict clastic features are still recognisable. All the others are metasomatised beyond recognition; 975869, 870, 871, 875 and 876 are similar, though 875 and 876 were modified by late-stage shearing.

The history of the rocks was complex and not all the processes are entirely clear from this study, but it seems that the sediments were pyrometasomatised, with the introduction/formation of silicates (amphibole, garnet, stilpnomelane), magnetite and sulphides. This was followed by retrograde metamorphism, with the introduction of siderite, formation of chlorite and sericite from other pre-existing silicates.

Some rocks were then sheared, with recrystallization of some components (carbonate, quartz, sericite).

The initial or early phase of pyrometasomatism might have been accompanied by Sn-W mineralisation, thoughnone was actually detected in these rocks.

H.W. Fander, M. Sc.

Sample No.	Rock Type - Composition	Fabric	Minor Minerals	Comments
975868 (T.S. 44057)	Indurated Siltstone. Finely laminated, with coarser quartzose, finer sericitic layers, accentuated by carbonaceous matter. Some chlorite development. DD82 LE1 64·2m	Folded, with minor disruption. Graded bedding. Fine-scale recrystallization.	Crosscutting quartz veins with chlorite, oxide opaques (?magnetite).	Perhaps incipiently metamorphosed, but sedimentary features well preserved. No distinctly metamorphic minerals occur.
975869	Magnetite-Quartz-Siderite Rock. Bands of quartz with fibrous stilpnomelane, and of massive magnetite. Extensively impregnated/replaced by siderite. DD82 LE1 89·9m	No relict textures. Magnetite is fractured, veined. Fine to coarse.	Scattered sulphides (pyrite, chalcopyrite, pyritised pyrrhotite) introduced with carbonate.	Origin of rock not known - history evidently complex. Sulphides younger than magnetite?
975870	Quartz-Magnetite-Sericite Rock. Massive quartz with subparallel tufts of sericite; scattered granular magnetite; fine sideritic carbonate throughout. DD82 LE1 93·8m	Vague preferred orientation. No relict features. Fine- to medium-grained.	A few sulphide patches of pyrite, chalcopyrite, pyrrhotite. Crosscutting quartz veins.	Similar to 869 in many respects. Origin not known. Broadly metasomatic, with several successive phases.
975871	Quartz-Magnetite-Siderite Rock. Scattered euhedral magnetite set in quartz with granular siderite, fibrous limonite after ?actinolite. DD82 LE1 96·4m	Random distribution, orientation; typical metasomatic fabric.	Fine sulphides throughout - pyritised pyrrhotite, trace chalcopyrite.	Rock was probably a metasomatic or skarn type with a Fe-silicate-magnetite assemblage, retrograded.
975872	Chloritic Metaquartzite. Dominantly small interlocking quartz patches; streaks and patches of fibrous chlorite. Irregular chalcopyrite grains. DD82 LE1 103·1m	Vague preferred orientation. Relict clastic textures, (rounded quartz grains).	Isolated zircon. Fine black (?carbon) coatings outline clastic textures.	Rock was mature fine orthoquartzite, recrystallized, weakly metasomatised and mineralised.
975873	Stilpnomelane-Metaquartzite. Mostly fine interlocking quartz grains with small chlorite patches. Bands of massive decussate stilpnomelane flakes, sheaves. DD82 PG1 29·9m	Relict clastic textures accentuated by dark rims. Replacive stilpnomelane.	Siderite, sulphides associated with mica. Pyritised pyrrhotite, chalcopyrite.	Rock closely resembles 872, i.e. representing metasomatised orthoquartzite. Weak sulphide mineralisation.
975874	Chloritised Garnet Rock. Ranging from garnetiferous mica schist to massive garnet, all extensively chloritised, with relict garnet and quartz. DD82 PG1 40·7m	Relict fine laminations indicated by carbonaceous matter. Euhedral garnet.	Massive fine chlorite veins. Thin layers of detrital zircon in schist.	Chloritisation was a retrograde, replacive process. Original sediment was contact-metamorphosed/metasomatised.
975875	Magnetite-Stilpnomelane-Siderite Schist. Subparallel matted stilpnomelane, sericite flakes; extensively fractured magnetite; abundant granular siderite. DD82 PG1 44·8	Schistose fabric mainly due to late-stage shearing, with fracturing, recrystallization.	Patches of sulphides; rare tremolite. Quartz patches. Chalcopyrite, pyrite, arsenopyrite, bornite.	Probably a sheared metasomatic rock; several metasomatic prograde and retrograde phases recognisable. Sulphides are fragmented.

RAL MINERALOGICAL SERVICES

Sample No.	Rock Type - Composition	Fabric	Minor Minerals	Comments
975876 (T.S. 44065)	Magnetite-Grunerite-Siderite Rock. Extensively fragmented magnetite, penetrated by siderite; matted masses of fibrous grunerite (Mg-Fe amphibole). DD82 PG1 46.4m	Some preferred orientation, mainly though mild shearing. Medium-grained.	Sulphides are pyritised pyrrhotite, chalcopyrite, fractured arsenopyrite.	Broadly similar to 875, with similar polymetamorphic/metasomatic history. Possible potential for Sn-W mineralisation.

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APPENDIX THREE

REPORT ON REGIONAL SOIL GEOCHEMISTRY

AND REGIONAL MAPPING IN THE

TEMMA AREA EL 1/77

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592025

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD.

INTER-OFFICE MEMO

TO: R.R. LARGE DATE: 26-1-83

FROM: R.J. PERRING COPIES TO: G. Weber

SUBJECT: REPORT ON REGIONAL SOIL GEOCHEMISTRY AND GEOLOGICAL MAPPING IN THE TEMMA AREA - E.L. 1/77

INTRODUCTION

Exploration Licence 1/77 - Rocky Cape is held by CRA Exploration Pty. Ltd., and currently exploration is being undertaken in joint venture with Geopeko.

Previous work by CRAE (T.M. Porter, 1977) indicated anomalous levels of tin and tungsten in panned concentrates from streams draining magnetically anomalous zones in the Temma area.

The magnetically anomalous zones were investigated by Geopeko in 1981. Herrmann, 1982 concluded the intense magnetic anomalies relate to narrow, crosscutting dyke or vein like bodies composed of varying assemblages of magnetite, carbonate, iron rich amphibole, chlorite and quartz. Several occurrences of quartz-sulphide vein mineralization show a spatial and structural relationship to the magnetite lodes. On the basis of low base metal grades and moderate tonnages indicated for the magnetite lodes the deposits are considered uneconomic targets for exploration.

A program to investigate the possibility of economic sulphide facies of the ironstones occuring along strike from the Strickland and Possum Creek magnetite lodes is currently underway. This report presents the results of exploration undertaken by Geopeko in the Temma area in November and December, 1982.

WORK COMPLETED

1. Six northeast - southwest (055^{o}M) lines approximately one kilometre apart were established in the area between the Grace and Strickland aeromagnetic anomalies (see figure 1). A total of 10.2 line kilometres of grid were pegged at 50 metre intervals using a chain and compass. Co ordinates are relative to the Possum Creek grid.

2. A Jacro rig mounted on a Bombardier is being used to auger through up to 10 metres of Recent and Tertiary unconsolidated sands and gravels to obtain C horizon samples of the Precambrian subcrop. Samples are taken at 25 metre intervals along lines and analysed for Cu-Pb-Zn-Ag-Fe by AAS, As by vapour hydride generation, and Sn-W by XRF. Approximately 40% of the grid has been sampled to date (see plan 1), and all assay results are given in Appendix 1. Line profiles of data will be prepared on completion of the sampling when all assay results received.

3. All new grid lines were surveyed with a magnetometer, with reading taken at 25 metre intervals. Stacked line profiles of total magnetic field intensity are given at scale 1:10,000 on Plan 2.

4. The area between the Grace and Strickland aeromagnetic anomalies was mapped on to a black and white aerial photograph of scale 1:10,000. Plan 3 shows the distribution of outcrop. The analytical results of rock chip samples taken in the course of geological mapping are given in Table 1.

SUMMARY OF RESULTS

1. C horizon soil geochemistry

Table 2 C horizon soil geochemistry - range of assays

Cu	5ppm	to	195ppm	Fe	0.12%	to	7.45%
Pb	< 5ppm	to	75ppm	As	< 1ppm	to	53ppm
Zn	5ppm	to	280ppm	Sn	< 4ppm	to	222ppm
Ag	< 0.5ppm	to	2.0ppm	W	< 4ppm	to	244ppm

A number of copper, lead and zinc anomalies mostly with coincident ? geochemistry occur throughout the sequence. Erratic anomalous tungsten geochemistry also occurs on all lines sampled. A broadly coincident tin (222ppm) - arsenic (53ppm) anomaly falls on the northeast end of line 10400N.

2. Magnetometer Survey

The narrow, 500nT anomaly centred on 13900N 11225E defines the southern extent of the Temma magnetite load. The narrow, 1700nT anomaly centred on 12400N 10775E defines the northern extent of the most eastern Possum Creek magnetite load. The 'spiky' nature of the data for 200 metres grid east and west of this anomaly is caused by Tertiary basalt. The two narrow, strong anomalies on line 11200N and one on line 10400N are caused by the Possum Creek magnetite lodes which strike 324°M.

3. GEOLOGY

The Precambrian sedimentary sequence in the area between the Grace and Strickland aeromagnetic anomalies consists of a sequence of laminated and bedded psammo-pelitic siltstones, fine and medium grained quartzites, laminated shales and micaceous sandstones.

The siltstones vary from rare massive pelitic siltstone through finely laminated, sometimes crossbedded (see figure 2) psammo pelitic siltstone generally found south of the Possum Creek prospect to interbedded psammitic and pelitic siltstones with ripple marks in the psammitic quartzose layers. This interbedded unit is common to most of the grid area.

The sandstones vary from clean, well sorted crossbedded white quartzites to grey silty micaceous sandstones which are also usually crossbedded. The most prominent exposures of this crossbedded unit fall on the western side of the gridded area between lines 12400N and 13900N.

A finely laminated shale outcrops near the eastern end of line 13100N on the banks of Big Eel Creek.

The shales are relatively well cleaved and contrasts with the poorly cleaved and non cleaved sandstones and quartzites. A broad spaced fracture cleavage (approximately 1/cm) was recorded in only a few outcrops. The alignment of (metamorphic) mica in the impure sandstones oblique to bedding also defines the cleavage. The few cleavages recorded strike between 160°M and 170°M and dip vertically.

Bedding dips both to the west and east from between 20° and 80° and sometimes to the south at 10° and less when on the hinge zone of relatively large folds.

There are at least two scales of folding. Mesoscale non planar non cylindrical folds occur in the psammo pelitic sequence 50 metres west of the Possum Creek magnetite outcrop, and in the shale in Big Eel Creek. (see Plan 3 for illustrations). These folds plunge from the vertical to at least 30° (to 145°M in this case). The irregularity of these folds suggests soft sediment slumping. There is also folding with a wavelength in the order of 800 to 1000 metres however there is insufficient outcrop to determine a plunge direction for these folds.

027

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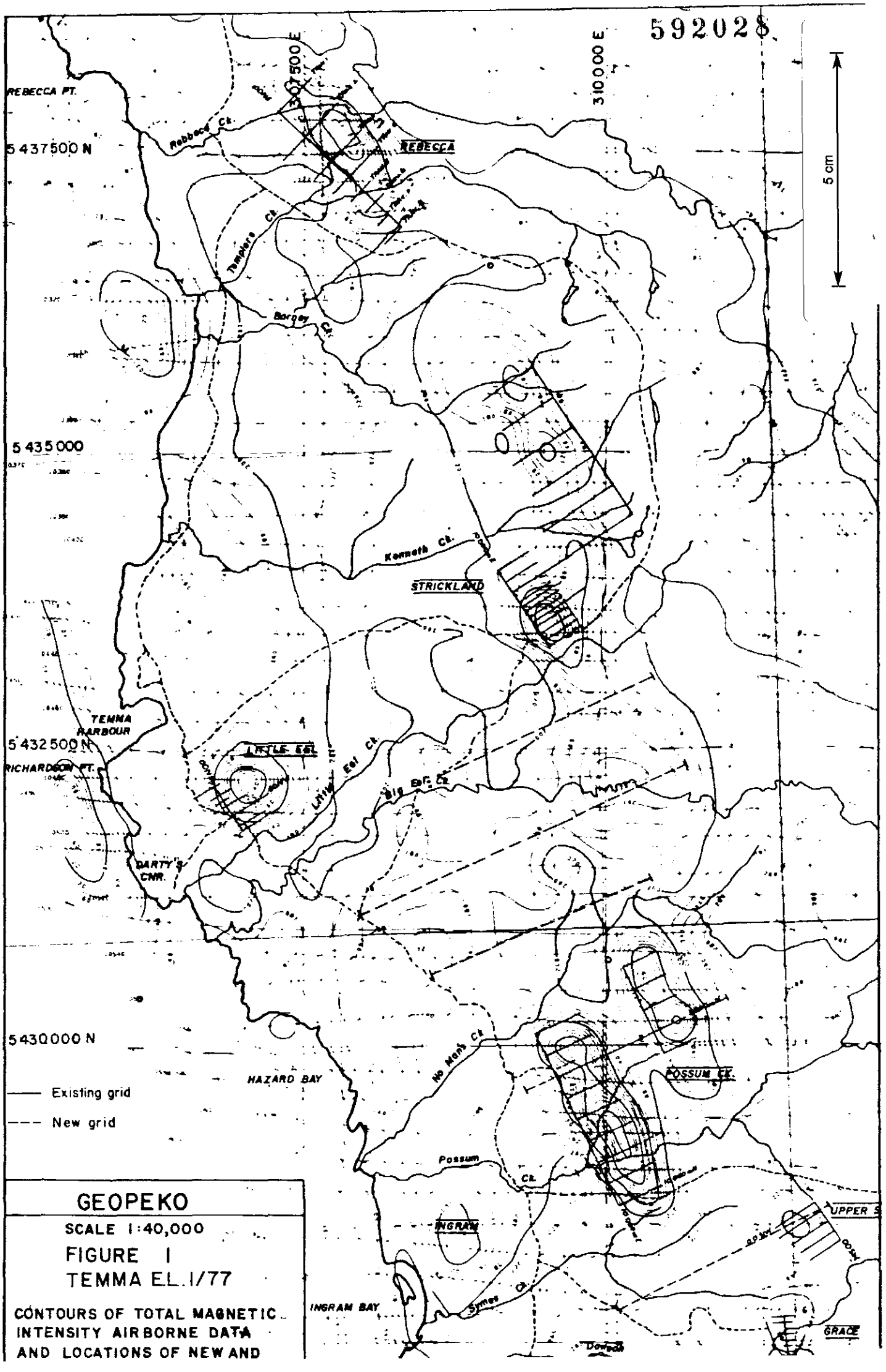


GEOPEKO

SCALE 1:40,000

FIGURE 1

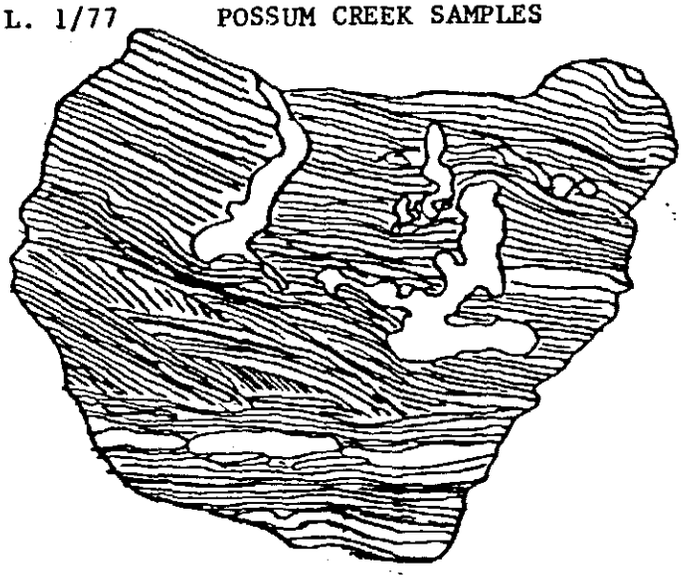
TEMMA EL.1/77

CONTOURS OF TOTAL MAGNETIC INTENSITY AIRBORNE DATA AND LOCATIONS OF NEW AND

028

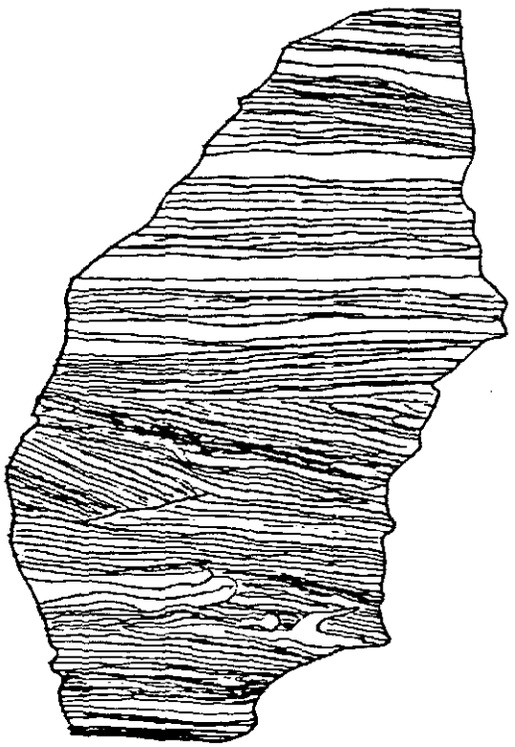
FIGURE 2: E.L. 1/77 POSSUM CREEK SAMPLES

592029



Finely laminated and cross bedded psammo-pelitic siltstone, crosscut by clastic dykes resulting from dewatering of sedimentary pile.

Possum Creek 9200N 10200E



Finely laminated psammo-pelitic siltstone, with truncated cross bedding.

Possum Creek 9200N 10200E

Scale 1:1

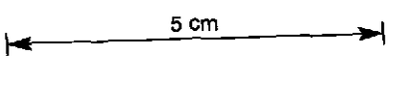


TABLE 1 TEMMA - ROCK CHIP ANALYSES

Sample Number	Rock Type	AMG Co ordinates	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Ba ppm	As ppm	Sn ppm	W ppm	Au ppb
12659	massive coarse grained magnetite	5429000N 310100E	350	5	7	X	35.0	X	650	X	X	X
12660	massive coarse grained magnetite	5429000N 310100E	1850	10	55	2.0	30.0	X	1500	X	X	X
12661	massive coarse grained magnetite	5431300N 310600E	140	10	55	X	31.5	10	30	10	X	X
12662	hematite-sulphide boxworks	5431300N 310600E	230	5	245	0.5	30.5	5	35	X	20	8
12663	qtz veining-sulphide boxworks	5431300N 310600E	105	15	65	1.0	20.0	10	37	4	X	X
12664	laterite	5432500N 309600E	15	5	50	0.5	33.0	30	16	X	X	X
12665	spotted white quartzite	5432650N 309000E	5	15	25	X	0.585	5	3	4	X	X
12666	limonitic ironstone	5430400N 310600E	10	5	35	X	27.5	1400	2	4	X	X
12667	chloritic siltstone	542800N 310650E	5	15	65	0.5	3.25	240	1	6	X	X

SAMPLES FROM OUTSIDE GRID AREA

12657	black chert	5445600N 307800E	10	10	10	X	0.755	10	3	7	X	X
12658	black chert	5445600N 307800E	10	10	10	X	0.605	10	3	8	X	X
	DETECTION LIMITS		5	5	5	0.5	0.005	5	1	3	10	8

APPENDIX 1

SOIL SAMPLE ASSAY RESULTS

031

592032 TEMMA

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.

Phone (09) 458 7999 — 52 Murray Road, Welshpool, W.A. 6106 — Telex AA92560

ANALYTICAL REPORT No. 15.2 ML 1715

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

CRA Exploration Pty Ltd
PO Box 138
Rosny Park
Tasmania 7018

ORDER No. 30434

PROJECT

DATE RECEIVED 13.12.82

RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
		3	159

REFER BELOW	SAMPLE NUMBERS	STATE OF SAMPLES	PRE-TREATMENT: DRY	CRUSH	SPLIT	PULVERISE	SIEVE	OTHER SEE REMARKS	NONE	ANALYSIS: REFER TO ANALYSIS SECTION	PREPARATION	METHOD
O	TS 21001-177 Not Continuous		1			3	2			Cu Pb Zn Ag Fe	101	101
										As	101	114
										Sn		102
										W		401

RESULTS TO O

1. Mr Hebbes
2. Mining Tenements
Hobart

RESULTS TO

Comalco Ltd
Launceston

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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032

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.

592033

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	15.2 08 1715	24.12.82	30434	1 OF 8

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Mo	Fe	Mn	Co	Ni	
1	21001	5	X	50	0.5	2.20%	15	X	X	
2	21002	10	35	60	X	8350	X	X	17	
3	21003	5	5	25	X	6900	X	X	7	
4	21004	10	15	26	X	1.20%	X	X	10	
5	21005	5	10	15	X	4350	X	X	4	
6	21006	5	30	20	X	3400	X	X	X	
7	21007	5	5	17	0.5	5150	X	X	X	
8	21008	5	30	40	0.5	1.15%	X	X	8	
9	21009	10	45	30	X	4900	X	X	13	
10	21010	5	10	50	0.5	2.65%	9	X	8	
11	21011	5	5	30	0.5	5100	X	X	4	
12	21012	10	5	30	X	5500	X	X	4	
13	21013	30	5	60	0.5	2.00%	X	X	244	
14	21014	30	25	75	0.5	1.65%	X	X	23	
15	21015	10	X	16	0.5	1.45%	X	X	8	
16	21016	T	5	10	X	8200	X	X	X	
17	21017	15	25	70	0.5	1.45%	X	X	X	
18	21018	15	10	20	X	4.20%	22	X	9	
19	21019	10	10	25	X	3.10%	14	X	16	
20	21020	10	40	45	1.0	7450	X	X	X	
21	21021	10	15	30	X	6.50%	21	4	4	
22	21022	10	15	30	X	7550	X	X	8	
23	21023	15	15	55	0.5	6.50%	11	X	X	
24	21024	15	25	40	X	4.95%	15	X	31	
25	21025	10	5	25	X	1.55%	5	X	6	

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.

592034

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	15.2 08 1715	24.12.82	30434	2 OF 8

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Hg	Fe	As	Sb	Bi	
1	21026	10	5	25	X	1.45%	7	X	9	
2	21032	70	X	155	X	6.35%	X	X	23	
3	21033	65	5	135	X	6.25%	6	X	12	
4	21034	60	5	135	X	7.45%	6	X	8	
5	21035	15	5	90	X	2.65%	13	X	13	
6	21036	5	5	60	X	1.85%	9	X	18	
7	21037	5	5	55	X	1.70%	9	X	17	
8	21038	5	10	40	X	9700	X	X	23	
9	21039	20	10	50	X	2.80%	13	X	X	
10	21040	10	5	30	X	2.45%	12	X	14	
11	21041	10	25	40	0.5	3.50%	11	[illegible]	[illegible]	
12	21042	5	5	25	X	2.05%	[illegible]	X	[illegible]	
13	21043	10	10	20	X	4350	X	X	9	
14	21044	15	X	50	X	1.25%	X	X	5	
15	21045	5	5	15	X	3300	8	4	11	
16	21046	10	15	35	X	4750	X	X	X	
17	21047	15	5	25	X	7450	8	X	X	
18	21048	15	10	25	X	2.30%	6	X	7	
19	21049	10	5	20	X	3.85%	13	X	X	
20	21050	10	5	20	X	4.30%	16	X	X	
21	21051	10		25	X	4.85%	15	X	X	
22	21052	15	5	15	0.5	2.85%	11	4	X	
23	21053	10	5	15	X	2.75%	10	X	5	
24	21054	15	5	25	0.5	2.80%	10	X	X	
25	21055	25	10	30	X	5.35%	9	X	4	

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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A division of MacDonald Hamilton & Co. Pty. Ltd.

592035

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	15.2 08 1715	24.12.82	30434	3 OF 8

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	As	Sb	Bi	
1	21056	195	35	140	X	2.05%	12	X	5	
2	21057	15	5	50	X	1.25%	8	X	5	
3	21058	10	5	15	0.5	3.65%	13	4	7	
4	21059	30	15	45	X	3.90%	9	X	X	
5	21060	10	5	30	X	3.55%	16	X	7	
6	21061	5	X	10	X	3250	9	5	7	
7	21062	5	X	15	0.5	4200	8	X	X	
8	21063	30	X	25	X	1300	2	X	15	
9	21064	130	X	100	2.0	8350	X	X	15	
10	21065	70	X	60	0.5	1400	X	X	10	
11	21066	40	X	35	X	1200	2	X	10	
12	21067	20	10	60	X	3.50%	11	X	X	
13	21068	20	15	30	X	2.85%	12	X	11	
14	21069	20	10	25	X	2.90%	12	X	X	
15	21070	20	5	35	X	2.95%	X	X	11	
16	21071	30	5	50	X	9150	X	X	X	
17	21072	5	5	10	X	3.75%	13	X	X	
18	21073	15	5	20	0.5	3.95%	12	X	22	
19	21074	15	5	30	X	3.40%	8	4	10	
20	21075	10	10	25	1.5	2.25%	X	X	X	
21	21076	20	X	30	X	3500	X	X	4	
22	21077	35	10	30	1.0	4700	6	X	7	
23	21078	15	5	20	X	3350	6	X	7	
24	21079	15	10	35	1.0	3.75%	12	X	X	
25	21080	10	5	20	X	4.35%	14	X	X	

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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592036

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
S	15.2 88 1715	24.12.88	30434	4 OF 8

TUBE No.	SAMPLE No.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	21081	60	X	50	0.5	4150	7	X	66	
2	21082	40	X	60	0.5	1.40%	14	X	23	
3	21084	40	15	70	X	1.45%	15	4	18	
4	21085	70	55	120	X	1.75%	9	5	15	
5	21086	15	25	60	0.5	1.20%	8	X	5	
6	21087	30	25	95	X	2.25%	22	X	16	
7	21088	35	75	200	1.0	2.65%	17	8	13	
8	21089	45	5	85	X	5.00%	10	X	24	
9	21090	10	5	15	X	4300	X	X	X	
10	21091	10	5	40	X	1600	X	7	X	
11	21092	15	5	25	X	1.30%	5	X	4	
12	21093	15	5	20	X	3600	7	X	X	
13	21094	10	5	30	X	8150	X	X	X	
14	21095	15	5	25	X	7800	1	4	X	
15	21096	5	10	10	X	3500	X	X	X	
16	21097	35	15	90	X	5.95%	53	7	9	
17	21098	40	15	100	X	6.85%	8	222	14	
18	21099	30	15	90	0.5	1.05%	16	4	17	
19	21100	15	25	85	X	2.20%	10	10	13	
20	21101	25	30	65	X	1.70%	10	X	11	
21	21102	30	10	65	X	1.75%	15	4	X	
22	21103	85	10	95	0.5	5100	11	X	4	
23	21104	15	15	65	X	1.80%	17	4	27	
24	21105	25	10	170	X	1.90%	16	X	30	
25	21106	15	15	55	0.5	1.75%	19	X	133	

Results in ppm unless otherwise specified
T = element present: but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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036

592037

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A division of MacDonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	15.2 88 1715	24.12.82	30434	5 OF 8

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	As	Sb	Mo	
1	21110	30	15	280	X	2.35%	12	X	40	
2	21111	5	10	35	0.5	8850	X	X	11	
3	21112	10	20	60	X	1.95%	10	X	12	
4	21113 Dup.	115	5	95	X	5.75%	15	X	20	
5	21114	100	10	90	X	6.20%	23	X	16	
6	21117	45	5	95	0.5	1.30%	20	X	45	
7	21118	95	15	~~470~~	~~X~~	~~7.45%~~	~~32~~	~~X~~	~~28~~	
8	21122	10	5	10	X	2100	X	X	27	
9	21123	5	5	10	X	2250	1	X	8	
10	21124	5	15	10	X	6350	7	X	9	
11	21125	10	50	25	0.5	6950	X	X	X	
12	21126	5	X	5	0.5	1700	X	X	13	
13	21127	15	20	25	0.5	1.55%	7	X	150	
14	21128	5	10	25	X	8500	7	8	15	
15	21129	5	5	10	X	2300	2	X	6	
16	21130	5	10	35	X	1.95%	10	X	8	
17	21131	10	10	30	X	2.70%	12	6	X	
18	21132	5	15	40	0.5	8500	2	X	X	
19	21133	5	15	10	0.5	2800	X	X	X	
20	21134	25	10	55	X	1.25%	5	5	17	
21	21135	10	10	25	X	3.65%	32	4	X	
22	21136	10	5	40	X	1.00%	8	X	6	
23	21137	5	50	20	X	2.70%	10	X	X	
24	21138	5	5	20	X	1.80%	8	X	X	
25	21139	5	40	30	X	2.55%	12	X	7	

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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037

592038

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
18	15.2-08 1715	24.12.82	30434	6 OF 8

TUBE No.	SAMPLE No.	Cu								
1	21140	5	15	25	X	8150	7	X	X	
2	21141	5	5	10	X	4050	6	X	5	
3	21143	5	20	20	X	4750	8	X	14	
4	21144	5	15	20	X	5900	X	X	X	
5	21145	15	20	50	X	1.75%	6	X	15	
6	21146	5	55	50	X	1.35%	8	X	9	
7	21147	5	20	25	X	4650	2	X	96	
8	21148	5	25	15	0.5	2550	7	X	52	
9	21150	10	5	15	X	3950	X	X	17	
10	21151	70	45	60	X	5900	8	X	X	
11	21152	45	30	75	X	1.45%	12	X	X	
12	21153	50	25	50	X	4250	10	X	17	
13	21154	20	15	35	X	1.05%	8	X	15	
14	21155	25	10	35	0.5	1.10%	6	X	X	
15	21156	15	15	30	X	9300	8	X	6	
16	21157	45	10	30	0.5	2300	X	X	33	
17	21158	5	10	10	X	1900	8	X	X	
18	21159	5	10	15	X	3.00%	16	X	47	
19	21160	5	25	10	X	9600	7	X	30	
20	21161	5	5	10	X	2.10%	7	X	9	
21	21162	20	30	30	X	4.70%	8	X	X	
22	21163	20	20	60	X	6.15%	10	X	X	
23	21164	5	45	15	X	6200	7	X	7	
24	21165	5	X	15	X	8800	6	X	13	
25	21166	10	45	35	X	1.70%	12	X	6	

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER

038

ANALABS

A division of MacDonald Hamilton & Co. (Qld.) Ltd.

592032

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
S	15.2 08 1715	24.12.82	30434	7 OF 8

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Fe%	Mn	As	Ni	
1	21167	5	X	10	X	1950	7	5	14	
2	21168	5	X	5	X	1700	1	X	113	
3	21170	5	40	10	X	1.95%	6	X	9	
4	21171	5	X	30	X	1.70%	10	X	13	
5	21173	5	25	40	X	1950	X	X	64	
6	21174	5	X	30	X	2.75%	10	X	6	
7	21175	10	X	85	X	3.10%	10	X	29	
8	21176	10	15	15	X	3100	10	X	X	
9	21177	5	10	10	X	4000	1	X	X	
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER

039

ANALABS

A division of MacDonald Hamilton & Co. (Pty.) Ltd.

592040

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
IS	15.2 06.1715	24.12.82	30434	8 OF 8

TUBE No.	SAMPLE No.	Au ppb	Pb ppm	As ppm	Hg ppm	Fe %	Cu ppm	Sn ppm	W ppm	Zn ppm
1	STD FS4	300	100	805	1.0	7.05%	26			
2	RPT 21001	5	5	55	0.5	2.20%	12			
3	RPT 21020	10	40	50	0.5	7400	X			
4	STD FS4	305	95	760	1.0	7.00%	25			
5	RPT 21046	10	15	30	X	4700	X			
6	RPT 21065	70	X	60	0.5	1650	X			
7	STD FS4	305	95	795	0.5	7.00%	24			
8	RPT 21087	30	25	90	X	2.20%	24			
9	RPT 21100	25	10	175	X	1.95%	17			
10	STD FS4	290	105	745	0.5	6.95%	25			
11	RPT 21134	20	10	55	X	1.20%	1			
12	RPT 21150	20	10	35	1.0	1.10%	7			
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	5	0.5	50	1	4	4	
24	DIGESTION	101	101	101	101	101	101			
25	METHOD	101	101	101	101	101	114	402	401	

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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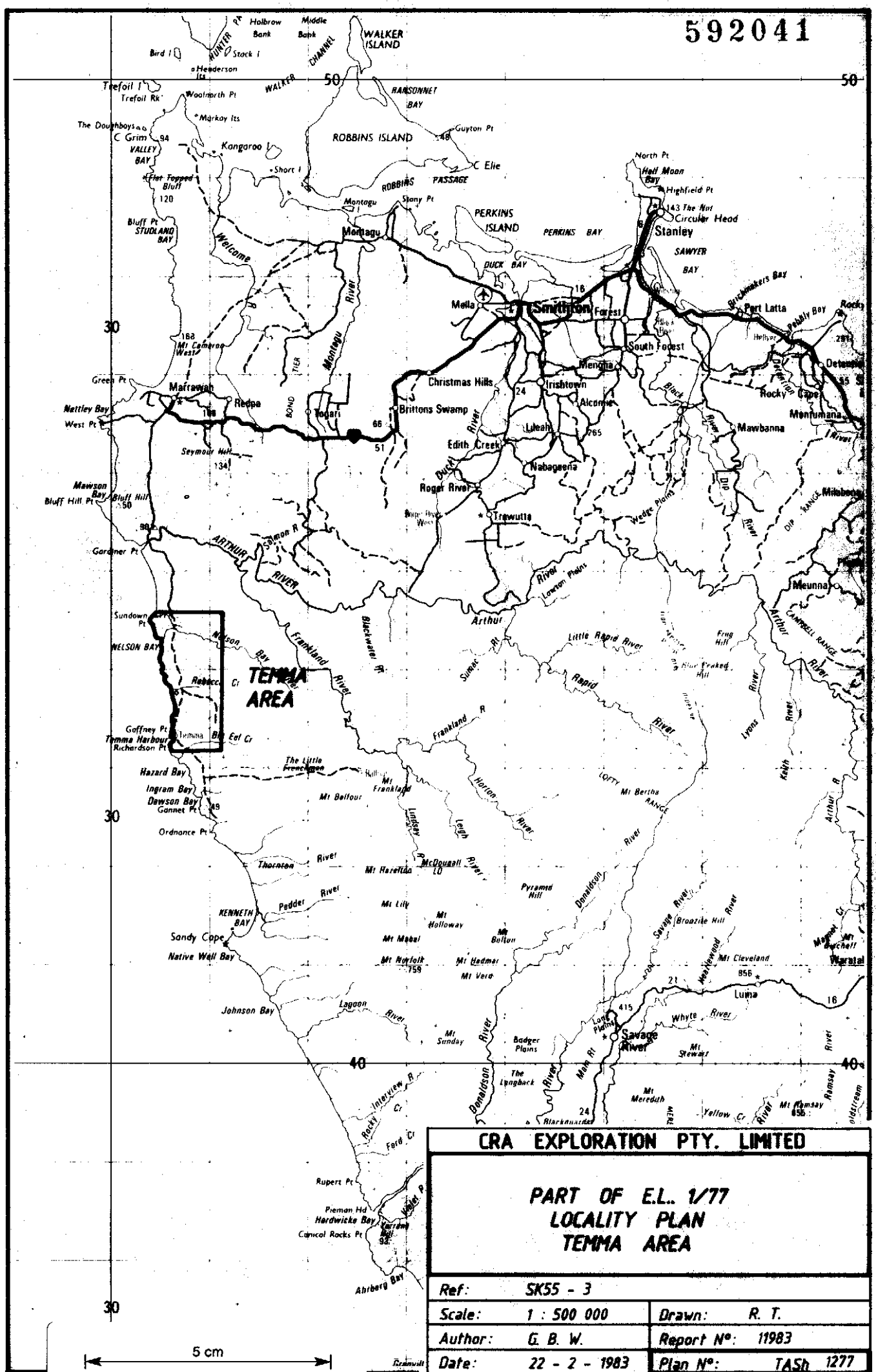
040

592041



CRA EXPLORATION PTY. LIMITED			
PART OF E.L. 1/77 LOCALITY PLAN TEMMA AREA			
Ref:	SK55 - 3		
Scale:	1 : 500 000	Drawn:	R. T.
Author:	G. B. W.	Report N°:	11983
Date:	22 - 2 - 1983	Plan N°:	TASh 1277

041

592042

100 W

000 E

100 E

dip 70°E?
800 ppm Cu
7000 nT mag.

DD 82 LE 1
CO-ORDS: 100 N
086 E
-50° at 225° Mag.

Siltstones and Quartzites

Quartzites

Shales and Quartzites

Quartzites py > cp 10 - 15% vein material

Siltstones and Quartzites, 10% veins - chloritic Siltstones py > cp

Quartzites laminated py min^{z}

Breccia zone Qtz vein Cp min^{z}. chlorite alt mod

Quartzites med-dk gry chlorite alt^{n} si-mod py > Cp.

Siltstones int ∠ s 62° chloritic occ qtz veins

Quartzites mod fractured int ∠ s 70° minor qtz veins bedding displacements minor chloritic alt^{n}

Chloritic Quartzites.

Chlorite magnetite alteration zone.

Magnetite Zone - Magnetite Quartz siderite rock. 2 small Qtz.-porphyry dykes

Quartz-chlorite contact zone - extreme core loss.

Quartzites and siltstones

Magnetite Lode

E. Facings

E. Facings

E.O.H. 109.7m

PERCUSSION to 36.5m
O.D. 36.5 - 109.7m

RESULTS

38.15m - 39.74m 1.59m @ 1.14% Cu 1700 ppm. Zn 10 ppm. Ag
14m - 24m (percussion) 10m @ 4750 ppm Cu.

5 cm

CRA EXPLORATION PTY. LIMITED

LITTLE EEL GRID
DRILLHOLE SECTION
DD 82 LE 1

REF.	SK55 - 3		
SCALE.	1 : 1000	DRAWN.	R. T.
AUTHOR.	G. B. W.	REPORT N°.	11983
DATE.	DEC 1982	TASh N°.	1124

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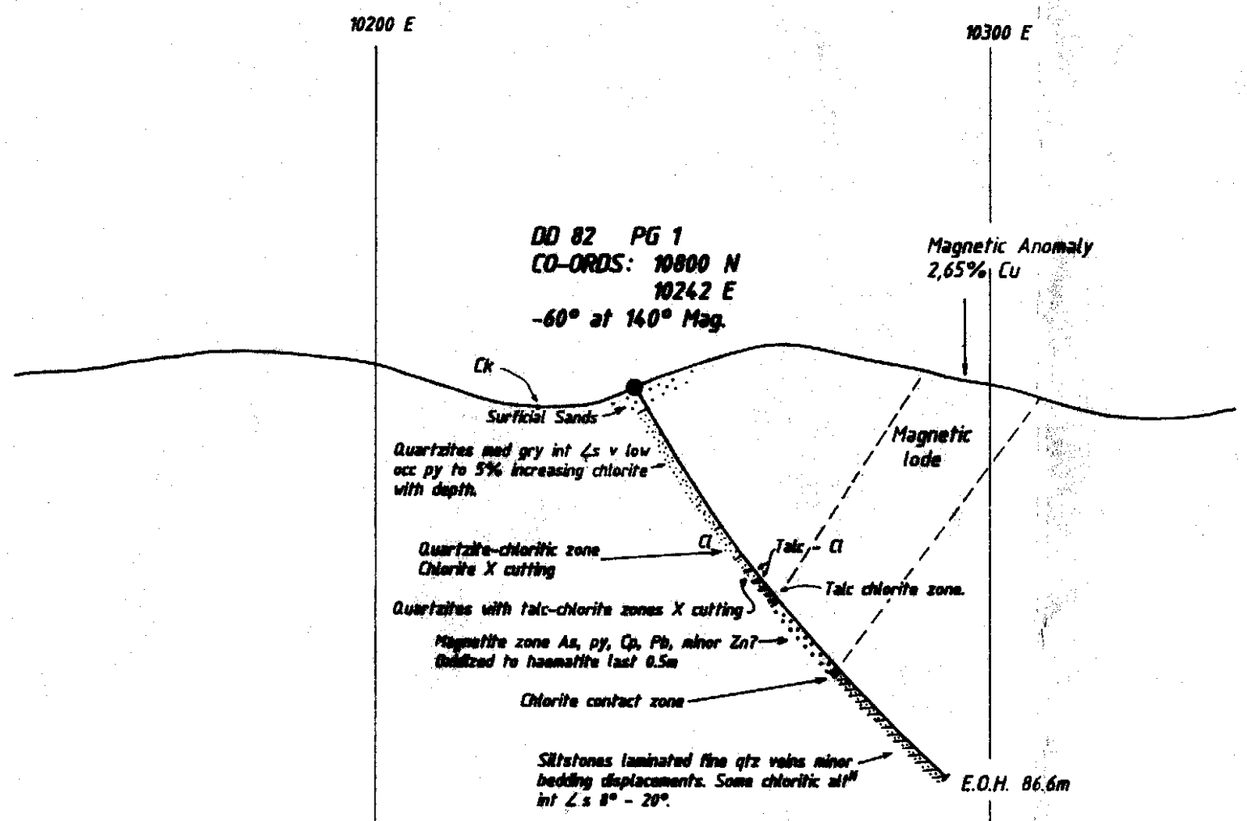

PERCUSSION to 11 metres
D.D. 11 - 86.6 metres

RESULTS

50.5 - 53.5 3m @ 1.95% Pb 12.9 ppm Ag
44.02 - 51.5 7.48m @ 2520 ppm Cu.
Several zones contained up to 2.1% As - little Au associated.
74.23 - 78.0 3.77 @ 3036 ppm Cu.

5 cm

CRA EXPLORATION PTY. LIMITED

POSSUM GRID
DRILLHOLE SECTION
DD 82 PG 1

REF.	[illegible] - 3		
SCALE	1 : [illegible]	DRAWN	R. T
AUTHOR	G. R. W.	PROJECT No.	11243
DATE	DEC 1982	FILE No.	1123