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CRA EXPLORATION PTY LTD

MT ROMULUS EL 24/84

PROGRESS REPORT ON EXPLORATION

FOR THE 12 MONTHS TO 25TH NOVEMBER 1987

**OPEN FILE**

EXPLORATION REPORT

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Date:

2 October 1987

Submitted to:

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Accepted by:



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<b>MINES</b>	
File Ref.	<b>EL 24/84</b>
	<b>23 OCT 1987</b>
Doc. Ref.	
Action Off.	
<b>RENEWAL</b>	
<b>DATED</b>	
<b>22. 10. '87</b>	
<b>REFERS.</b>	
Resubmit to	Date

## 1. SUMMARY

A review of previous stream geochemical work over the E.L. was conducted. An anomalously high level of Pb and Zn in a sample in the far north of the E.L. and the generally sparse sampling north of the Fury River give scope for follow up sampling.

A rock sampling programme was completed over the Romulus East and Ten Mile Creek areas. Two samples containing anomalous levels of gold were collected. Follow up gridding has commenced.

## 2. INTRODUCTION

E.L. 29/84, Mt. Romulus, covers an area of 103 square kilometres between the western edge of the Cradle Mountain - Lake St Clair National Park and Lake Mackintosh. The area is rugged and heavily forested. There is no road access so helicopter access is required except at the northern end of Lake Mackintosh where boat access is possible.

The licence was originally taken out in order to re-examine the Cambrian volcanics and a group of DIGHEM anomalies believed to fall within them. Review of the literature and reconnaissance sampling have indicated that the area has considerable potential for gold mineralisation.

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3. CONCLUSIONS

The level of anomalous gold in the porphyry at Ten Mile Creek excites interest. The gold potential of the area requires further investigation both in the Ten Mile Creek area and to the north.

The Romulus East area appears to have no further potential.

4. RECOMMENDATIONS

- a. That the gold anomaly at Ten Mile Creek be tested.
- b. That continuations of the porphyry that contains the gold be thoroughly explored if positive indications are given during the Ten Mile Creek programme.
- c. That the area north of the Fury River be tested for gold mineralisation.

5. REGIONAL GEOLOGY

Precambrian metasediments are seen to outcrop along the south eastern boundary of the E.L. They constitute the north western most margin of the Tyennan nucleus and are dominantly composed of interlayered pelite and quartzite. They have reportedly been metamorphosed to greenschist facies, Collins et. al. (1981). The pelite has a well developed foliation usually defined by muscovite and is a medium grey in colour. The quartzite exposures examined by the authors in the Mt Remus area possessed a very weak schistosity which was defined by muscovite. In the

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south-eastern corner of the E.L. a coarse-grained, muscovite-biotite granite intrudes the Precambrian sequence and K-Ar work carried out on the granite has returned an age of  $355 \pm 6$  Ma, McDougall and Leggo, (1965).

The Precambrian is unconformably overlain by a belt of Cambrian volcanics which strikes north-east south-west and attains a maximum thickness of about two kilometres north west of Mt Romulus. To the north-west of Mt Remus and reportably to the north as well a thin unit of Cambrian coarse grained sandstone is exposed immediately west of the Precambrian contact. This is structurally overlain by a broadly conformable unit of coarse grained quartz-feldspar-biotite porphyry. This unit appears to be a polyphase intrusive as considerable variation in grain size and composition is observed across strike. This quartz-feldspar-biotite porphyry constitutes the entire Cambrian sequence in the north of the E.L. but is seen to thin out to only 200-300 metres wide in the south. In the south the Cambrian sequence is composed of the quartz-feldspar-biotite porphyry, quartzites which face upwards to the west and a volcanic sequence.

Intruded into this volcanic sequence is a 200 metre wide northeast southwest trending belt of granitic rocks which may be Devonian in age and genetically related to the Granite Tor batholith.

Ordovician sediments unconformably overlie the Cambrian volcanics, dip westwards and are upwards facing. The sequence can be divided into a siliceous sandstone/conglomerate unit which abutts the Cambrian sequence and a Gordon Limestone equivalent which outcrops along the north-western portion of the E.L.

Tertiary basalt is observed to overlie the Ordovician and Cambrian sequences to the north-west of Mt Romulus. Quaternary fluvioglacial deposits, talus deposits and alluvium were also noted throughout the E.L.

#### 6. PREVIOUS STREAM SEDIMENT GEOCHEMISTRY

The data was obtained from work by Alcoa over E.L. 2/78 Granite Tor, Shell over E.L. 2/78 and Pickands Mather International. Differences in the levels of the surveys can be easily seen, notably in the collection of samples around Ten Mile Creek in which Shell assayed less than 1 ppm for Copper, Lead and Zinc notwithstanding the higher values recorded in the area on other surveys.

Broadly the Lead/Zinc geochemistry can be seen to reflect rock type, being depressed over the Ordovician and over the Cambrian porphyry. Copper is depressed over the Ordovician but seems somewhat more erratic over the porphyry. To the north where 1 inch to 1 mile mapping indicates small inliers of porphyry within the Ordovician, the copper level is again somewhat increased. In view of the fact that the Ten Mile Creek occurrence of porphyry has been found to contain some gold this northern porphyry should be further investigated. Indeed the area has not be covered in great detail for Cu, Pb and Zn and does not appear to have been tested for gold.

Elsewhere in the licence the geochemistry is generally depressed except for those anomalies which have previously been followed up. An exception is a value of 680 ppm Pb and 180 ppm Zn in the far north of the E.L. The drainage has been mapped as Ordovician but in view of the access problems in much of the area, the geology may have previously undefined complexities. Hence this anomaly should be followed up.

## 7. GROUND INVESTIGATIONS

Following investigations of previous explorers' data it was decided that the two most promising targets in the E.L. were the haematitic stockwork at Ten Mile Creek and the gold bearing gossanous breccia zone at Romulus East. Accordingly a contract geologist, Roger Poltock, was employed to carry out a programme of rock sampling over these areas (see Appendix 1).

### 7.1 Romulus East

A total of 24 samples were collected across the mineralised zone and similar rocks to the west. A report from Roger Poltock is included in Appendix 1. The assay results in Appendix 2 show a highest value of .64 ppm Au. In view of the style of mineralisation and the fact that the samples containing highest gold were 'highgraded', no further work on this prospect is proposed at this stage.

### 7.2 Ten Mile Creek

A further 15 samples were collected by Roger Poltock in the Ten Mile Creek area. All the samples of the haematitic zone returned no significant mineralisation. However two samples from the eastern end of his traverses returned significant gold (1.04 ppm and 8.08 ppm respectively). The samples were described as sericitized porphyry containing minor pyrite in one case.

A CRAE crew has followed up this sampling with a brief investigation of the area. An eight kilometre grid has been cut over the prospect and a number of rock samples collected. Results of these have not yet been received.

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6.

In view of the level of the gold anomaly it is recommended that detailed follow up of the porphries in this area be conducted. This will be done in the coming field season. Initial work will consist of soil and rock sampling on the grid and reconnaissance rock sampling elsewhere in the porphyry.

8. REFERENCES

McDOUGALL, I., LEGGO, P.J. 1965 "Isotopic age determinations on granitive rocks from Tasmania". J. Geol. Soc. Aust. 12 : 295-332.

COLLINS P.L.F., GULLINE A.B. and WILLIAMS, E. (Comp.) 1981 Geological Atlas 1 mile series. Sheet 44 (8014N). Mackintosh. Explor. Rep. Dep. Mines Tasmania.

CLEMENTSON I.M., 1985 EL 24/84 Mt. Romulus, North West Tasmania Progress Report on Exploration 1984-85. CRAE Internal Report 13480.

9. LOCATION

Burnie	1:250 000 Sheet	SK5503
Queenstown	1:250 000 Sheet	SK5505
Romulus EL 24/84		

7.

10. KEYWORDS

Gold, Precambrian, Green schist, Metasediments, Cambrian, Acid Volcanics, Porphyry, Stockworks, Gossan, Ordovician, Sandstone, Devonian, Granite, Tertiary, Quaternary, Geochem Rock.

11. LIST OF PLANS

<u>Plan</u>		<u>Scale</u>
<u>TASh No</u>		
2696 ✓	EL 24/84 Mt Romulus Location Plan	1:500 000
2697 ✓	EL 24/87 Mt Romulus Sketch Map of Cambrian Geology and Principal Prospects	1:50 000
2695 ✓	EL 24/84 Mt Romulus. Sketch of Cambrian Geology and Principal Targets with Stream Sediment Results	1:25 000
3433 ✓	Ten Mile Creek Prospect Rock Chip Sampling	1:10 000
3434 ✓	Romulus East Prospect Rock Chip Sampling	1:1 000
3518 ✓	Mt Romulus EL 24/84 Ten Mile Creek Prospect Proposed Gridding	1:10 000
3519 ✓	Mt Romulus EL 24/84 Past Explorers Stream Sediment Data Pb	1:50 000

3520 ✓ Mt Romulus EL 24/84 Past Explorers  
Stream Sediment Data Zn 1:50 000

3521 ✓ Mt Romulus EL 24/84 Past Explorers  
Stream Sediment Data Cu 1:50 000

12. LIST OF APPENDICES

Appendix 1 Report by Roger Poltock on Romulus East and Ten  
Mile Creek.

Appendix 2 Assay Results of Rock Chip Sampling.

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APPENDIX 1

REPORT BY ROGER POLTOCK ON ROMULUS EAST

AND TEN MILE CREEK

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EL 24/84 MT. ROMULUS

ROMULUS EAST - TEN MILE CREEK

Roger Poltock Geological  
for CRA Exploration Pty. Ltd.

These notes detail contract exploration in the Romulus East, Ten Mile Creek areas during April 6-14th 1987.

The aim of the programme was to prospect and sample in detail:

- a) silicified breccias with anomalous gold in Pre-Cambrian meta sediments at Romulus East.
- b) hematite breccias in Cambrian felsic porphyries at Ten Mile Creek.

Work was limited to 2-3 effective days at each site due to constraints imposed by helicopter availability and prevailing weather conditions.

A total of 39 rock chip samples were collected (see Appendices). Time wasn't available for sampling at Fury Flats and the areas surrounding Romulus East.

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2.

ROMULUS EAST

The area is located 1 km SE of Mt. Romulus on a saddle 800 m A.S.L. (see Photo 1).

Mineralization was initially located by Shell Co. during ground follow up of DIG EM anomalies (Romulus East Anomaly 5). A sample of gossan associated with silicified breccias assayed 14% As, 2.6% Pb, 2.3 ppm Au. Ten pits were sunk by Shell to investigate the EM response which is associated with graphitic phyllites outcropping to the east and adjacent to the silicified breccias.

Geology in the area consists of Pre-Cambrian metasediments, graphitic phyllites and quartzites. All lithologies are foliated, main trends are N-S. On the western ends of the grid lines abundant blocks of Devonian? granite occur. These are interpreted to be glacial erratics, due to the lack of granite outcrop and associated hornfelsing (see Plan 1).

Mineralization is restricted to sulphidic quartz veins and silicified breccias 10-20 cm wide, hosted by silicified phyllite and quartzite. Veining and brecciation is irregular, persisting for only a few metres, lying in the N-S foliation planes.

Veins/breccias are typically composed of fragments of country rock with a matrix of quartz, < 20% pyrite/arsenopyrite and minor galena.

Two metre channel samples across mineralized sections were taken at 15 and

25N at 140W. High graded vein samples from these intervals were also taken, RP 1294, 1295, 1299 (see Appendices).

Similar silicified metasediments with minor quartz pyrite veining is located at 50N 240W, RP 1503, 1504 and 00 150W RP 1506.



PHOTO 1

View to SW

Romulus East Grid located in low regrowth in centre foreground.  
Mt. Swallow and Lake MacKintosh centre distance.  
Mts. Read and Black distant horizon.



TEN MILE CREEK

This area of hematite breccias in Cambrian porphyries and weakly anomalous stream gold was detected by Shell Co. The prospect is located on the steep western slopes of Mt. Remus (see Plan 2, Photo 2). The porphyry is extensively exposed in cascades and waterfalls in the headwaters of Ten Mile Creek.

The porphyry is a multiphase body, intrusive contacts were observed between fine grained hematitic and coarser phases at RP 1515, 1522. Phenocryst proportions and types are variable include quartz, feldspar, hornblend and biotite.

Hematite mineralization is generally more intense in proximity to and within the finer hematitic phases. Hematite occurring as:

- a) massive veins  $\leq$  10 cm.
- b) stockworks and breccias over several metres.

Quartz albite chlorite specular hematite veins also occur. These are interpreted to be a Devonian feature.

Anomalous stream gold detected by the Shell Co. may be shed from Tertiary - Recent gravels at 400100E, 5392000N. These gravels consist of well rounded quartzite and granite (Devonian) cobbles.



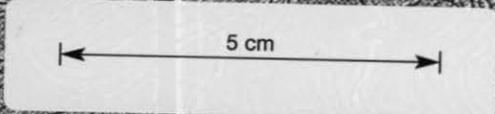
PHOTO 2

View from helipad at 5392 500N, 400,000E,  
looking SE to Mt. Remus

The forested hillside is underlain by Cambrian porphyry, hematite breccias  
are located in small streams on right side of photograph.

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Jan 24/84 'LANZ  
10 Mile Creek  
(enlarged from 1:25000)  
Rock sample location



GRAVELS TERTIARY-  
RECENT.  
Well rounded cobbles  
quartzite, granite (br)



93 000 N

ZEEH  
MONTAGU

CROWN LAND

0922  
medium  
forest with  
low dense  
scrub  
vegetation

CAMP SITE

MOUNT REMUS

CROWN LAND

CROWN LAND

Anio

Creek

570 000 N

0 000 N





ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CRAE  
 PROJECT Ew 24/84  
 PROSPECT 10 Mile Creek

SAMPLE RECORD AND ANALYTICAL DATA SHEET

LABORATORY  
 SAMPLE TYPE Rock Chip

COLLECTED BY: R. Pollock  
 DATE DISPATCHED:  
 DATE RECEIVED:

A 28305

SAMPLE NUMBER	AMC LOCATION	DESCRIPTION	HIGH GRADED		ANALYSES							
			YES	NO								
RP 1509	400,480E 5391 740N	Float E porphyry with minor hematite / magnetite.	✓									
1510	400 560E 5391 550N	Float E porphyry with qtz veins, selvage specular hematite.	✓									
1511	399 900E 5391 120N	Float E porphyry with qtz specular hematite veins	✓									
1512	399 920E 5391 100N	Fine grained porphyry with hematite w breccias or on slickensides	✓									
1513	399 950E 5391 060N	Float massive hematite on slickenside surfaces.	✓									
1514	400,000E 5391 000N	Float porphyry with veins of qtz, specular hematite, albite?	✓									
1515	400 060E 5391 000N	Porphyry with hematite veins and breccia.	✓									
1516	400 100E 5391 000N	Hematite on slickenside surfaces 142-70 (fault)	✓									
1517	400 140E 5391 000N	Porphyry with sericitized feldspar & minor pyrite		✓								
1518	400 200E 5391 000N	Porphyry, medium grained, sericitized feldspar		✓								
1519	399 900E 5390,900N	Porphyry, massive hematite veins	✓									

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APPENDIX 2

ASSAY RESULTS OF ROCK CHIP SAMPLING

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March 1985

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SAMPLE NUMBER	LOCATION						ROCK TYPE			MINERALISATION							METAL CONTENT ppm / %							Geological Observations		
	Co-ordinates AMG / Grid		EXPOSURE	S. TYPE	WIDTH (m)	HIGH GRADED		MAJOR ROCK	MINOR ROCK	ALTERATION	VISIBLE	STYLE	MAJOR	MINOR	MINOR	GANGUE	LOSS	Cu	Pb	Zn	Ag	As	Fe%		Mn	Au ppb.
	East	North				YES.	NO																			
1652225	450480	5391740	F			✓		R.P.	Sample No.	RP1509							50	25	120	1	65	5-73	950	10	6 Porphyry with minor Haem / Magnetite	
1652226	400560	5391550	F			✓		"		RP1510							210	25	75	1	75	4-19	700	10	6 Porphyry with veins & selvages of specular haematite.	
1652227	399900	5391120	F			✓		"		RP1511							10	20	20	1	42	5-77	150	10	As above	
1652228	399920	5391100	o/c			✓		"		RP1512							10	35	20	1	40	6-09	115	20	Fine grained porphyry with Haem in Bx matrix or on slickensides	
1652229	399950	5391060	F			✓		"		RP1513							10	10	10	1	11	14-2	125	5	As above	
1652230	400000	5391000	F			✓		"		RP1514							5	20	20	1	44	3-41	130	15	Porphyry with SPELHAEM-ALBITE VEINS	
1652231	400060	5391000	o/c			✓		"		RP1515							10	20	15	1	24	5-28	85	10	Porphyry with Veins & Breccia fill.	
1652232	400100	5391000	o/c			✓		"		RP1516							10	15	20	1	9	12-4	130	3	Porphyry, HE on FAULT PLANE 142-70	
1652233	400140	5391000	o/c			✓		"		RP1517							5	30	20	1	110	1-26	70	8-08ppm	6 Porphyry, minor pyrite, sericitized Sphalerite.	

GEOCHEMICAL ROCK SAMPLING LEDGER	DETECTION LIMIT		
	ANALYTICAL METHOD		
TENEMENT NAME: ROMULUS E.L. 24/84	PROJECT:	AMG ZONE:	SHEET No.: 01 of 02
AREA / PROSPECT: Ten Mile Cr.	DPO's:		LABORATORY: ALS
MAP / PHOTO REF: TASH 3433	SAMPLE No.: 1652225 - 2233	COLLECTED BY: R.P.	DATE: APRIL 87

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# CRA EXPLORATION PTY. LIMITED

March 1985

025

SAMPLE NUMBER	LOCATION						ROCK TYPE										MINERALISATION										METAL CONTENT ppm / %								Geological Observations
	Co-ordinates AMG / Grid		EXPOSURE	S. TYPE	WIDTH (m)	HIGH GRADED		MAJOR ROCK	MINOR ROCK	ALTERATION	VISIBLE	STYLE	MAJOR	MINOR	MINOR	GANGUE	LOOK	Cu	Pb	Zn	Ag	As	Fe%	Mn	Au ppt.										
	East	North				YES	NO																												
1652234	400200	5391000		dc		✓	R.P. Sample No = RP1518										40	30	45	1	110	1.44	250	1.04 ppm	Porphyry, medium grained, sericitized feldspars.										
1652235	399900	5390900				✓	R.P. Sample No = RP1519										15	10	15	1	20	9.98	75	60	Porphyry, massive Haematite veins										
1652236	399760	5390900		F		✓	" " " " = RP1520										50	15	60	1	20	2.97	380	50	Porphyry with vein <sup>qtz</sup> chl & <sup>minor</sup> spec haem										
1652237	399830	5390800		F		✓	" " " " = RP1521										10	20	130	1	19	4.68	1200	40	Brecciated porphyry with chl & spec haem										
1652238	399720	5390920		dc		✓	" " " " = RP1522										20	20	15	1	9	9.75	110	15	Fine & coarse grained porphyry with haem Bx										
1652239	399700	5390950		dc		✓	" " " " = RP1523										15	5	2	1	1	23.5	95	15	Porphyry with a Haematite - SERICITE Bx.										

GEOCHEMICAL ROCK SAMPLING LEDGER		DETECTION LIMIT		
		ANALYTICAL METHOD		
TENEMENT NAME: ROMULUS E.L. 2484		PROJECT:	AMG ZONE:	SHEET No. : 02 of 02
AREA / PROSPECT: Ten Mile Ck.		DPO's :	LABORATORY: ACS	
MAP / PHOTO REF: TASH 3433		SAMPLE No. : 1652234-2239		COLLECTED BY: RP      DATE: APRIL 87

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# CRA EXPLORATION PTY. LIMITED

March 1985

0220

SAMPLE NUMBER	LOCATION							ROCK TYPE							MINERALISATION							METAL CONTENT ppm +/- %								Geological Observations
	Co-ordinates SHELL Grid		EXPOSURE	S. TYPE	WIDTH (m)	HIGH GRADED		R.P. NO	MINOR ROCK	ALTERATION	VISIBLE	STYLE	MAJOR	MINOR	MINOR	GANGUE	LOG	Cu	Pb	Zn	Ag	As	Fe%	Mn	Au (ppb)					
	East	North				YES	NO																							
1652 201	120 125W	000				✓	1285										30	125	90	<1	48	5.01	700	300	PE phyllite qtz veins					
202	135W	50 N				✓	1286										45	560	105	<1	280	3.48	210	10	PE phyllite graphitic (Pit 4)					
203	140 W	50 N				✓	1287										40	230	121	<1	105	3.12	350	<3	PE phyllite graphitic qtz veins (Pit 2)					
204	140W	45 N				✓	1288										20	80	40	<1	130	2.70	155	<3	PE phyllite graphitic (Pit 3)					
205	140 W	37 N				✓	1289										35	120	50	<1	55	3.25	370	<3	"					
206	138-138W	25 N				✓	1290										10	80	40	<1	70	3.36	200	10	PE phyllite + quartzite 152.9 Pct. at 10m					
207	138-140W	25 N				✓	1291										20	85	35	<1	70	4.26	155	<3	PE phyllite / quartzite minor qtz veins in limonite					
208	140-142W	25 N				✓	1292										50	1150	40	8	1100	3.21	130	<3	PE qtzite, phyllite with 0.1m vein qtz, pyrite, arsenopy.					
209	142-144W	25 N				✓	1293										35	920	45	1	1.1%	4.29	105	220	"					
210	140-5W	25 N				✓	1294										220	6150	390	44	4200	1.33	45	10	Vein qtz, pyrite, arsenopy, galena 0.1 -> 0.2m wide					
211	142W	25 N				✓	1295										540	5600	125	56	5.23%	7.88	105	410	" 0.1m wide					
212	138-140W	15 N				✓	1296										55	740	90	5	1650	4.06	115	3	PE Qtzite + phyllite with minor qtz veins no sulphide					
213	140-142W	15 N				✓	1297										40	570	85	1	6300	4.29	125	65	PE Qtzite / phyllite with veins qtz minor py 0.2m					
214	142-144W	15 N				✓	1298										65	1100	155	4	4.32%	7.08	940	280	PE Qtzite / phyllite					
215	140 W	15 N				✓	1299										15	180	70	<1	1450	3.75	360	15	float @L-pyrite-arsenopy					
216	260W	15 N				✓	1300										10	30	15	<1	400	0.55	45	10	float block qtz vein grey colour with limonite					
1652 217	260W	25 N				✓	1501										5	30	15	<1	240	0.72	100	3	float Granite feldspar amphibolite					

GEOCHEMICAL ROCK SAMPLING LEDGER		DETECTION LIMIT	
		ANALYTICAL METHOD	
TENEMENT NAME : ROMULUS EL 24/84		PROJECT :	AMG ZONE : 55
AREA / PROSPECT : ROMULUS EAST		DPO's :	SHEET No. : 01 of 02
MAP / PHOTO REF : TASH 3434		SAMPLE No : 165201 -> 165217	LABORATORY : ALS
			COLLECTED BY : RP DATE : APRIL 87

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# CRA EXPLORATION PTY. LIMITED

March 1985

027

SAMPLE NUMBER	LOCATION							ROCK TYPE										MINERALISATION										METAL CONTENT ppm / %								Geological Observations
	Co-ordinates SHELL Grid		EXPOSURE	S. TYPE	WIDTH (m)	HIGH GRADED		R.P. °	MINOR ROCK	ALTERATION	VISIBLE	STYLE	MAJOR	MINOR	MINOR	GANGUE	LOGS	Cu	Pb	Zn	Ag	As	Fe%	Mn	Au (ppb)											
	East	North				YES	NO																													
165218	270W	25N						1502										NR	ND	NR	NR	NR	NR	NR	NR	NR	PE fine Grained metased									
165219	250W	50N				✓		1503										15	270	45	<1	530	2.44	75	35	PE Qtzite-phyllite py joint										
165220	240W	45N				✓		1504										15	185	35	2	2.6%	3.50	110	640	PE Qtzite-phyllite with silic breccia minor py o.i.m wide										
165221	260W	75N				✓		1505										5	65	20	<1	1.26%	2.22	280	240	Flow silic breccia with pyrite - arsenopy										
165222	150W	000				✓		1506										5	220	65	<1	780	1.76	50	20	Silicified breccia. No sulphides										
165223	80W	50S				✓		1507										40	120	60	<1	270	2.74	250	3	PE Graphitic schist with Qtz veins (P1+9)										
165224	85W	50S				✓		1508										70	460	55	2	310	1.93	280	<3	PE Graphitic schist with Qtz veins (P1+8)										
GEOCHEMICAL ROCK SAMPLING LEDGER								DETECTION LIMIT																												
								ANALYTICAL METHOD																												
TENEMENT NAME : ROMULUS EL 24/84								PROJECT :										AMG ZONE : 55								SHEET NO. : 02 of 2										
AREA / PROSPECT : ROMULUS EAST								DPO's :																		LABORATORY : ALS										
MAP / PHOTO REF : TASH 3434								SAMPLE No. : 165218 - 165224																		COLLECTED BY : R.P. DATE : APRIL 89										

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028

863029

5 cm

5 450 000mN

Burnie

Waratah

Savage River

5 400 000mN

ROMULUS  
E.L. 24/84

Rosebery

Zeehan

400 000mE

5 350 000mN

Queenstown

Strahan

350 000mE

CRA EXPLORATION PTY. LIMITED

87-2725

ROMULUS  
E.L. 24/84  
LOCATION PLAN

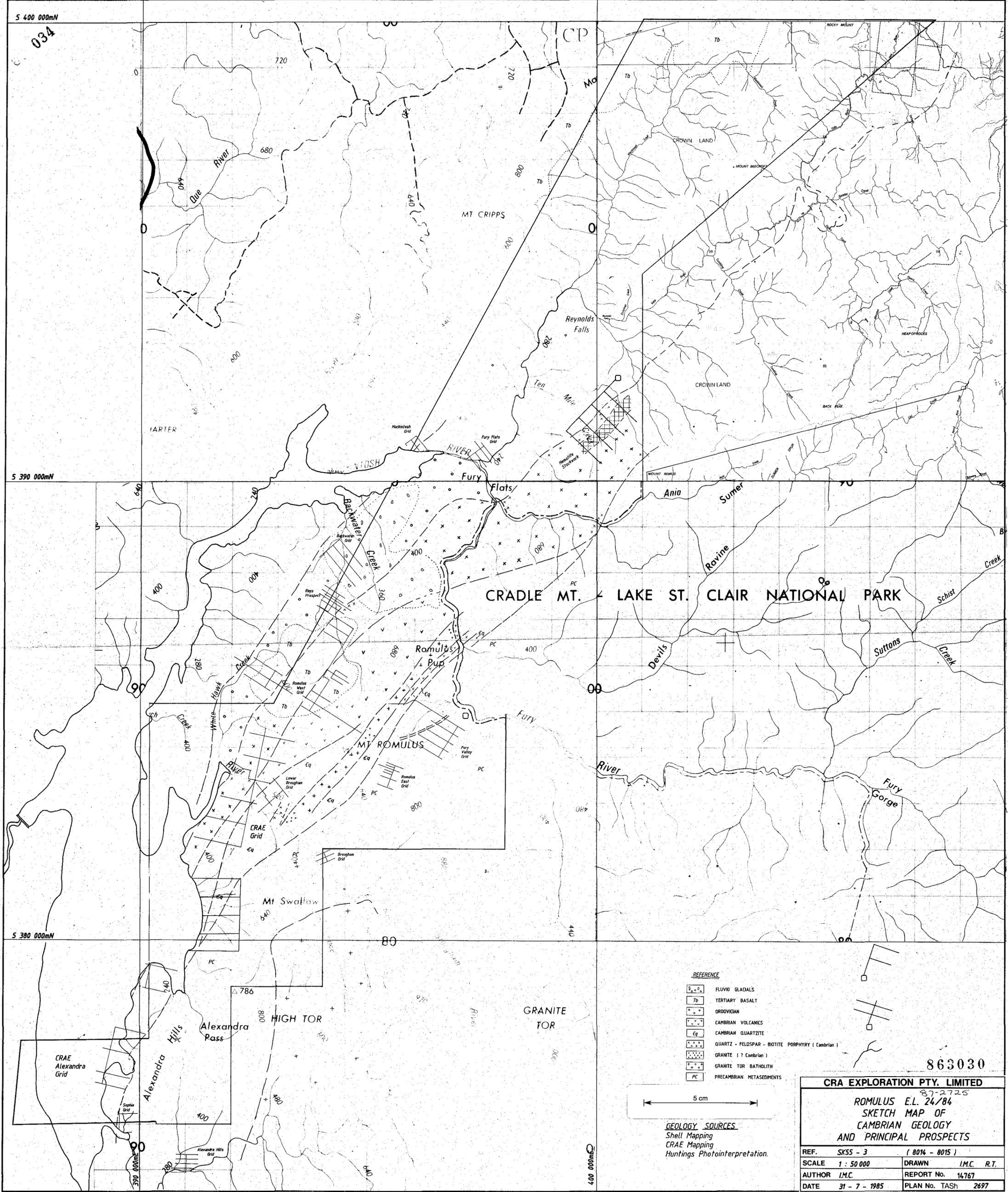
REF.	SK55 - 3	( 8015 - 8016 )
SCALE	1 : 500 000	DRAWN R.T.
AUTHOR	I.M.C.	REPORT No. 14767
DATE	31 - 7 - 1985	PLAN No. TASH 2696

5 400 000mN

034

5 390 000mN

5 380 000mN



REFERENCE

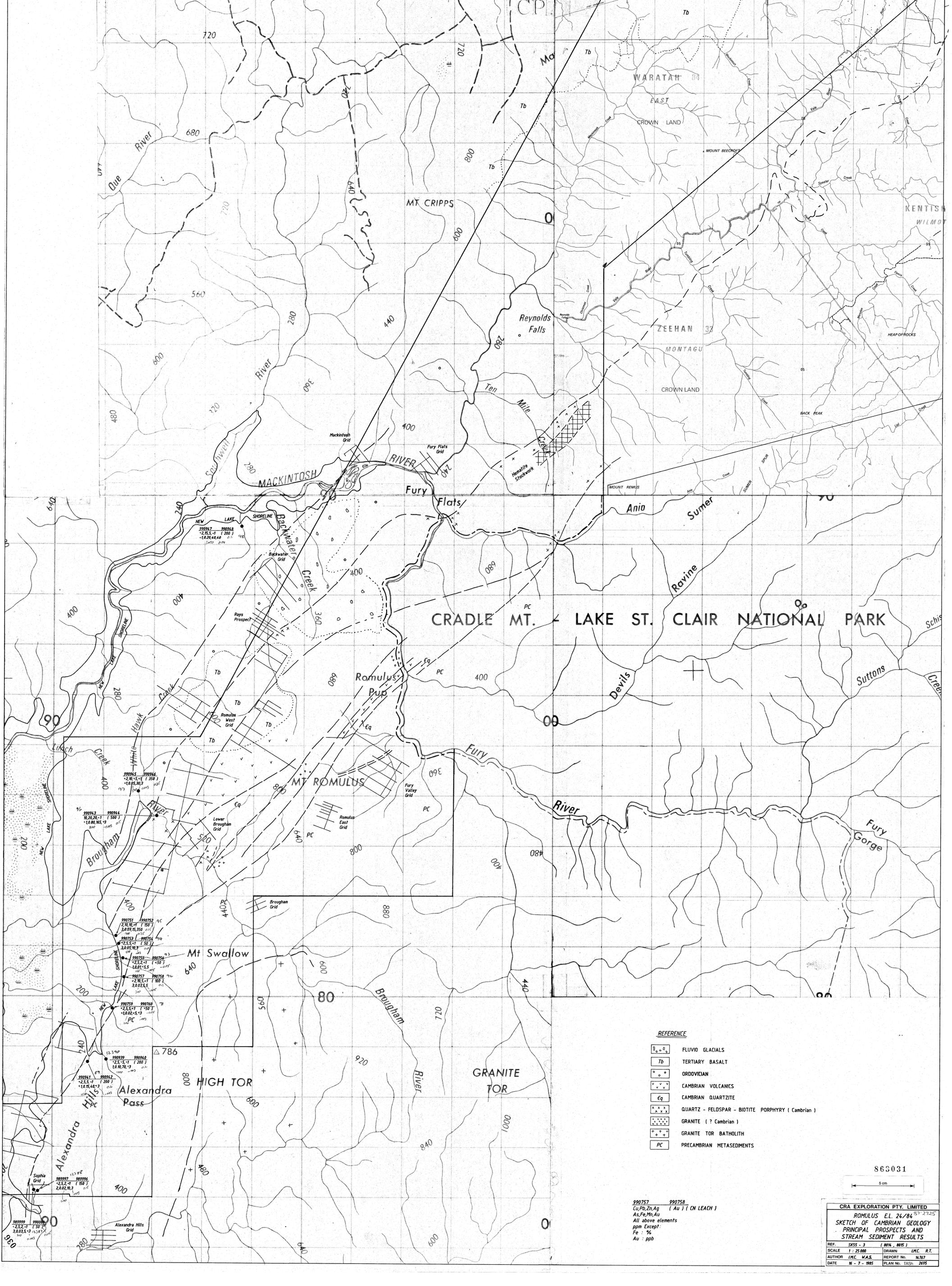
- FLUVIO GLACIALS
- TERTIARY BASALT
- ORDOVICIAN
- CAMBRIAN VOLCANICS
- CAMBRIAN QUARTZITE
- QUARTZ - FELDSPAR - BIOTITE PORPHYRY ( Cambrian )
- GRANITE ( ? Cambrian )
- GRANITE TOR BATHOLITH
- PRECAMBRIAN METASEDIMENTS

5 cm

GEOLOGY SOURCES  
 Shell Mapping  
 CRAE Mapping  
 Huntings Photointerpretation.

863030

<b>CRA EXPLORATION PTY. LIMITED</b>	
ROMULUS E.L. 24/84 87-2725 SKETCH MAP OF CAMBRIAN GEOLOGY AND PRINCIPAL PROSPECTS	
REF. SK55 - 3	( 8014 - 8015 )
SCALE 1 : 50 000	DRAWN I.M.C. R.T.
AUTHOR I.M.C.	REPORT No. 14767
DATE 31 - 7 - 1985	PLAN No. TASH 2697



CRADLE MT. LAKE ST. CLAIR NATIONAL PARK

- REFERENCE**
- FLUVIO GLACIALS
  - TERTIARY BASALT
  - ORDOVICIAN
  - CAMBRIAN VOLCANICS
  - CAMBRIAN QUARTZITE
  - QUARTZ - FELDSPAR - BIOTITE PORPHYRY (Cambrian)
  - GRANITE (? Cambrian)
  - GRANITE TOR BATHOLITH
  - PRECAMBRIAN METASEDIMENTS

990757 990758  
 Cu, Pb, Zn, Ag (Au) (CN LEACH)  
 As, Fe, Mn, Au  
 All above elements  
 ppm Except:  
 Fe : %  
 Au : ppb

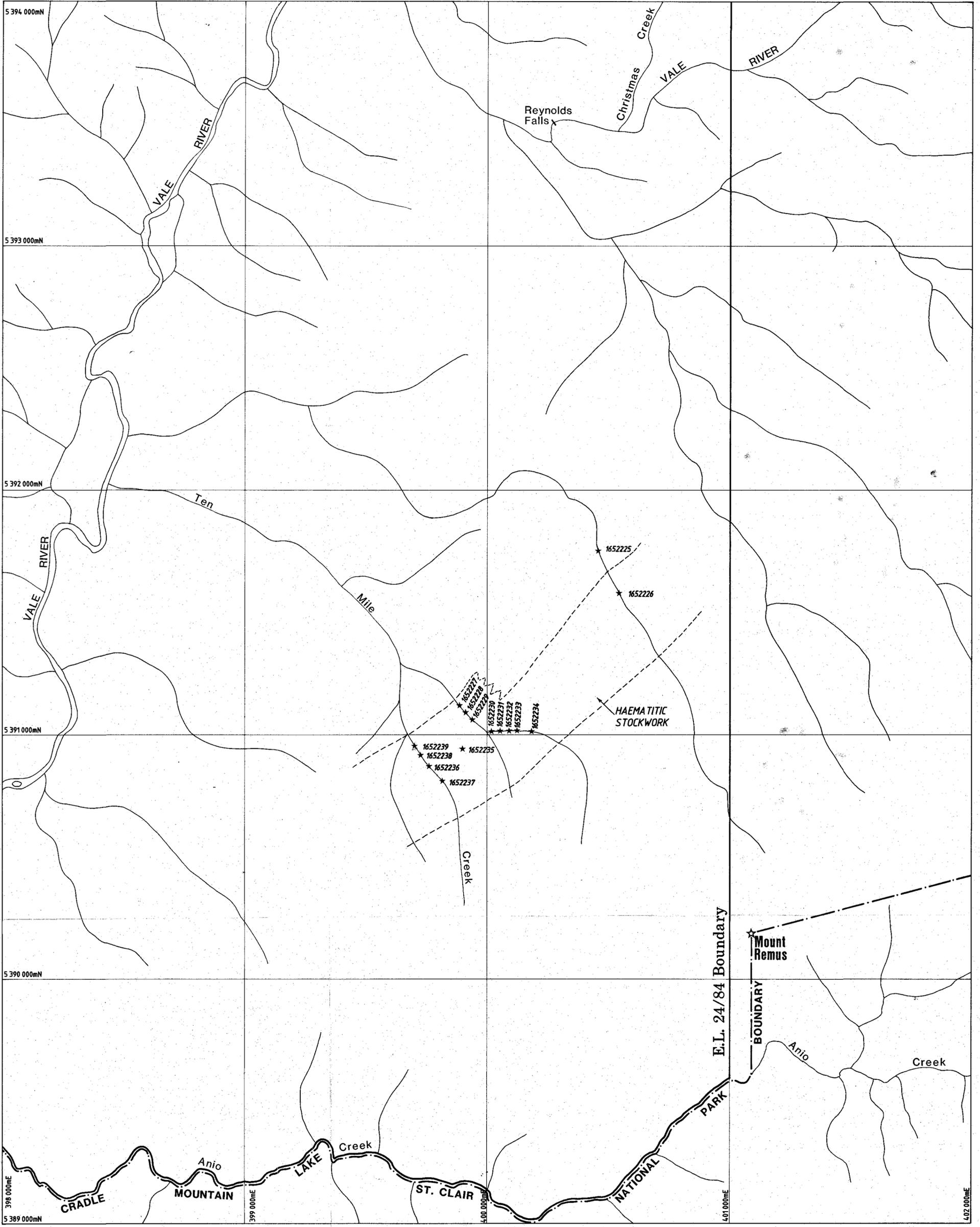
863031

5 cm

**CRA EXPLORATION PTY. LIMITED**  
 ROMULUS E.L. 24/84 87-2725  
 SKETCH OF CAMBRIAN GEOLOGY  
 PRINCIPAL PROSPECTS AND  
 STREAM SEDIMENT RESULTS

REF: SK55 - 3 (80% 8015)  
 SCALE 1 : 25 000 DRAWN I.M.C. R.T.  
 AUTHOR I.M.C. W.A.S. REPORT NO. 16787  
 DATE 16 - 7 - 1985 PLAN NO. TASH 2695

035



Sample No.	Cu	Pb	Zn	Ag	As	Fe%	Mn	Au(ppb)
1652225	50	25	120	1	65	5.73	950	10
1652226	210	25	75	1	75	4.19	700	10
1652227	10	20	20	1	42	5.77	150	10
1652228	10	35	20	1	40	6.06	115	20
1652229	10	10	10	1	11	14.2	125	5
1652230	5	20	20	1	44	3.41	130	15
1652231	10	20	15	1	24	5.28	85	10
1652232	10	15	20	1	9	12.4	130	3
1652233	5	30	20	1	110	1.26	70	8.00ppm
1652234	40	30	45	1	110	1.44	250	1.04ppm
1652235	15	10	15	1	20	9.98	75	60
1652236	50	15	60	1	20	2.97	380	50
1652237	10	20	130	1	19	4.68	1200	40
1652238	20	20	15	1	9	9.75	110	15
1652239	15	5	2	1	1	23.5	95	15



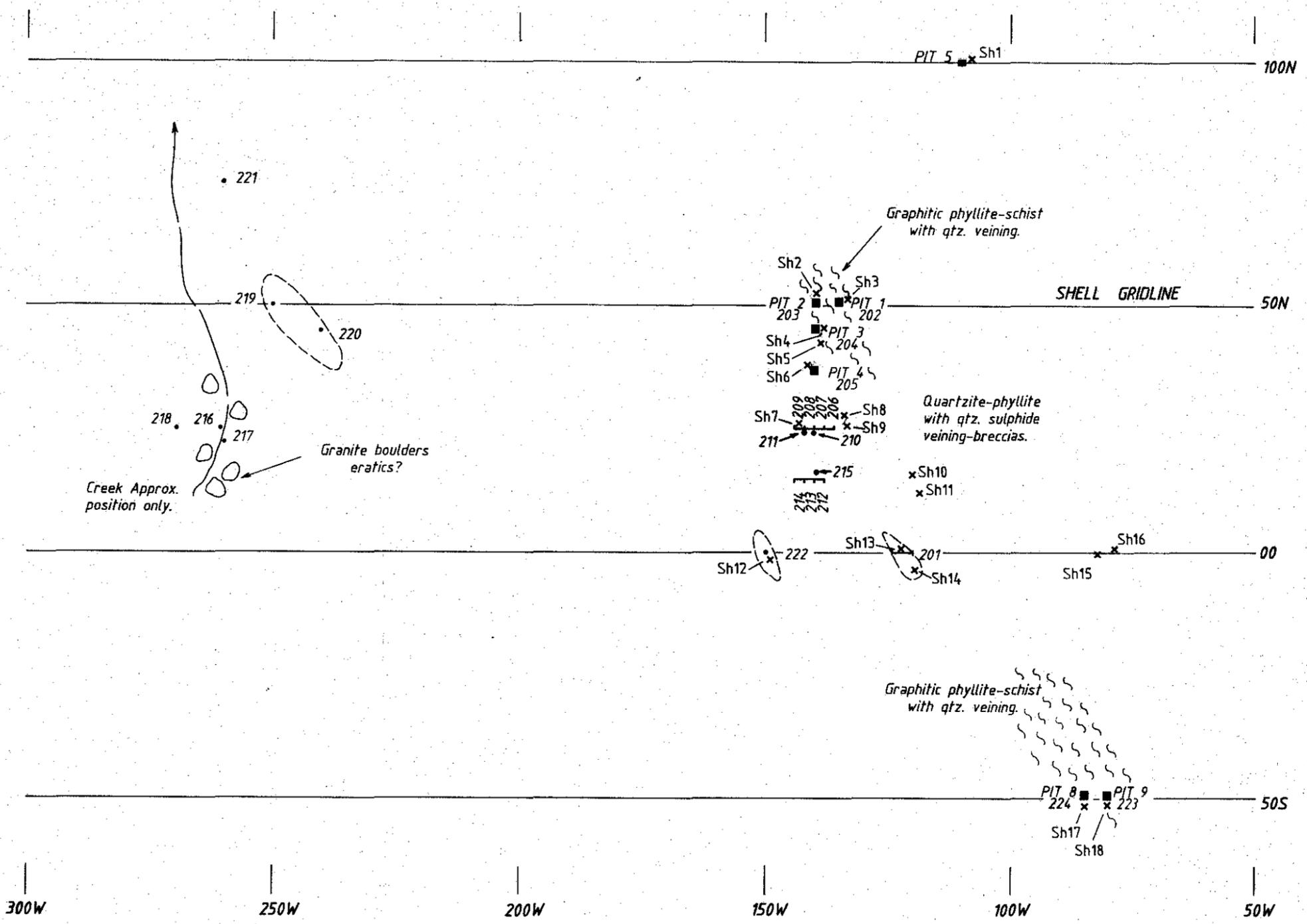
863032

**CRA EXPLORATION PTY. LIMITED**  
 87-2725  
**ROMULUS E.L. 24/84**  
**TEN MILE CREEK PROSPECT**  
**ROCK CHIP SAMPLING**

REF.	SK55 - 3	( 8016 - 8015 )
SCALE	1 : 10 000	DRAWN R.T.
AUTHOR	W.A.S.	REPORT No. 14767
DATE	27 - 5 - 1987	PLAN No. TASH 3433

Sample No.	Cu	Pb	Zn	Ag	As	Fe%	Mn	Au(ppb)
1652 201	30	125	90	<1	48	5.01	700	300
202	45	560	105	<1	280	3.48	210	10
203	40	230	121	<1	105	3.12	350	<3
204	20	80	40	<1	130	2.70	155	<3
205	35	120	50	<1	55	3.25	370	<3
206	10	80	40	<1	70	3.36	200	10
207	20	85	35	<1	70	4.26	155	<3
208	50	1150	40	8	1100	3.21	130	<3
209	35	920	45	1	1.1%	4.29	105	220
210	220	6150	390	44	4.200	1.33	45	10
211	540	5600	125	56	5.23%	7.88	105	410
212	55	740	90	5	1650	4.06	115	3
213	40	570	85	1	6300	4.29	125	65
214	65	1100	155	4	4.32%	7.08	940	280
215	15	180	70	<1	1450	3.75	360	15
216	10	30	15	<1	400	0.55	45	10
217	5	30	15	<1	240	0.72	100	3
218	NR	NR	NR	NR	NR	NR	NR	NR
219	15	270	45	<1	530	2.44	75	35
220	15	185	35	2	2.6%	3.50	110	640
221	5	65	20	<1	1.26%	2.22	280	240
222	5	220	65	<1	780	1.76	50	20
223	40	120	60	<1	270	2.74	250	3
1652 224	70	460	55	2	310	1.93	280	<3

SHELL Sample No.	As	Pb	Ag	Au
Sh1	44	10	<1	-
Sh2	150	460	<1	<0.05
Sh3	200	330	2	-
Sh4	210	175	<1	-
Sh5	130	125	<1	-
Sh6	85	42	<1	-
Sh7	4.6%	1100	3	0.25
Sh8	620	380	2	<0.05
Sh9	1.7%	1100	8	0.05
Sh10	14.2%	2.6%	550	2.3
Sh11	1350	400	<1	<0.05
Sh12	110	100	-	-
Sh13	26	42	<1	-
Sh14	24	60	-	-
Sh15	330	333	<1	-
Sh16	12	42	<1	-
Sh17	250	480	<1	<0.05
Sh18	28	250	<1	-

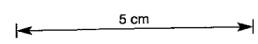
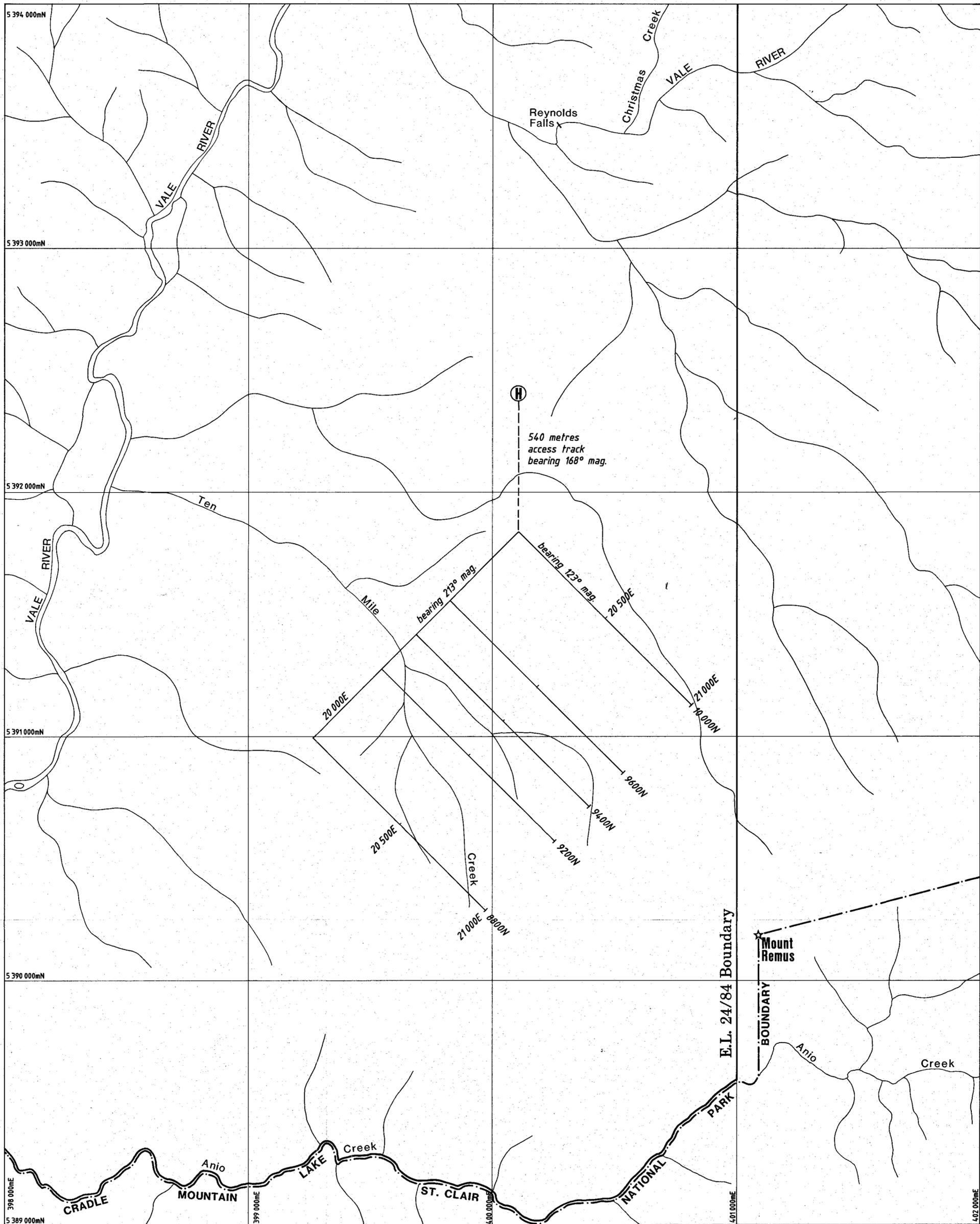


880898

- 224 CRAE Sample location & No.
- \* Sh9 Shell Sample location & No.

CRA EXPLORATION PTY. LIMITED	
87-2725	
ROMULUS E.L. 24/84	
ROMULUS EAST PROSPECT	
ROCK CHIP SAMPLING	
REF.	SK55 - 3 (8014 - 8015)
SCALE	1 : 1000
AUTHOR	W.A.S.
DATE	29 - 5 - 1987
DRAWN	R.T.
REPORT No.	14767
PLAN No.	TASh 3434

029



<b>CRA EXPLORATION PTY. LIMITED</b>			
87-2725			
MT. ROMULUS E.L. 24/84			
TEN MILE CREEK PROSPECT			
PROPOSED GRIDDING			
REF.	SK55 - 5	( 8014 )	
SCALE	1 : 10 000	DRAWN	R.T.
AUTHOR	F.R.F.	REPORT No.	14767
DATE	5 - 10 - 1987	PLAN No.	TASh 3518

863034

030





033

5 400 000mN

5 395 000mN

5 390 000mN

5 385 000mN

390 000mE

395 000mE

400 000mE

405 000mE

863037

CRA EXPLORATION PTY. LIMITED

MT. ROMULUS <sup>87-2725</sup> E.L. 24/84  
 PAST EXPLORERS  
 STREAM SEDIMENT DATA  
 COPPER : ppm

REF.	SK55 - 3	( 8014 )
SCALE	1 : 50 000	DRAWN R.T.
AUTHOR	T. v.S.	REPORT No. 14767
DATE	5 - 10 - 1987	PLAN No. TASH 3521

5 cm

