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Doc. M.	A.O.	S.G.	E.O.
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DEPT. OF MINES			
REF. No.	1208	80	

CRA EXPLORATION PTY LIMITED

RAPID RIVER EL 1/79, NORTH WEST TASMANIA

PROGRESS REPORT ON EXPLORATION

FEBRUARY 1985 - FEBRUARY 1986

OPEN FILE

Author: I M Clementson
 Date: 18 February 1986
 Submitted to: T W Dickson
 Accepted by:



Copies: CRAE Hobart
 CRAE Canberra
 Department of Mines,
 Tasmania

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REPORT NO: 13754

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1. SUMMARY

Exploration within EL 1/79 during 1985 has largely been restricted to follow-up of gold anomalies and a potential magnesite horizon in the north of the Licence. A programme of Jacro auger holes was completed which has not adequately tested either the gold potential or the carbonate horizon.

The "Comstaff Creek" gold anomaly in the south of the EL warrants further investigation.

A second potential magnesite "corridor" previously identified in the central portion of the EL should be tested by open hole drilling or costeaning.

2. INTRODUCTION

Rapid River EL 1/79 extends south from the Arthur River to approximately 15 kilometres north of Savage River (Plans TASH 2926 & 2927). The Licence was originally granted to Geopeko with CRAE as a Joint Venture partner. In June 1983 Geopeko withdrew from the JV leaving CRAE sole title.

In April 1985 the original EL was reduced from 365 square kilometres to less than 125 square kilometres in accordance with Mines Department regulations.

This report details exploration during 1985-86 and is to accompany the application for renewal of the Licence.

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3. CONCLUSION

Follow-up of gold anomalies in the north of the EL have failed to account for the anomalism. Further detailed exploration is required and is proposed.

The magnesite potential of two horizons believed to strike across the EL has not been evaluated, largely due to logistical and manpower restraints, further work is essential and a programme of mapping and drilling or costeaning is proposed. Follow-up of these magnesite corridors would also include further sampling and mapping of the "Comstaff Creek" gold anomaly.

4. RECOMMENDATIONS

1. The EL be renewed for a further 12 months.
2. Gridding to permit mapping and sampling of the Folly Hill and Arthur River gold anomalies.
3. Detailed mapping of the strike extensions of the Cann Creek magnesite horizon to determine whether drilling is warranted.
4. In order to test a topographic and vegetation anomaly within the Lyons-Arthur River magnesite corridor either a fence of open hole drilling or extensive costeaning is required. In view of the possible deep cover drilling is preferred at 200 metre centres across the target zone.

- 5. The southernmost extension of the Lyons-Arthur magnesite corridor at Comstaff Creek hosts a gold anomaly. Further sampling is required.

5. GEOLOGY

The geology of the EL and of its principal feature, the Arthur Lineament is given in Clementson (1985)(Plan TASH 2500).

To the north and west of the EL are two known magnesite occurrences; the Cann Creek and the Lyons-Arthur River deposits. Both fall within the Arthur Lineament and are thought to strike southwest on to the EL and are considered as important exploration targets.

The Cann Creek horizon is probably represented by a magnesite outcrop on the banks of the Arthur River in the north of the EL but has not been delineated more thoroughly.

The Lyons-Arthur River deposits lie within a recognisable "corridor" of discrete visual and geophysical character which strikes southwest from the known deposits through the central portion of the EL. (Plan TASH 2928).

6. MAGNESITE POTENTIAL

6.1 Cann Creek Horizon

Mapping and drilling has confirmed a significant magnesite occurrence at Cann Creek, some 4 km northwest of the Arthur River in the northern part of the Licence. This magnesite is

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correlated with a small magnesite-dolomite occurrence of the banks of the Arthur within the Licence and should strike further into the EL.

6.1.1 Jacro Drilling

In order to test this strike extension a line of Jacro auger holes was completed opposite the Arthur River outcrop (Plan TASH 2520). Nine auger holes from 3-26m in depth were completed of which only one penetrated the thick alluvials to bedrock. No indication of magnesite or other carbonate was found but the programme was not an exhaustive test of the potential.

6.1.2 Future Work

Detailed mapping of the outcrop and postulated strike extensions is required in order to determine whether drilling is warranted. Exposure and access within the area is not good and it may be necessary to drill further short holes through the cover in order to trace the horizon.

6.2 Lyons-Arthur "Magnesite Corridor"

Photo interpretation and field checking has located an apparent fold closure within the "magnesite corridor" close to the Pipeline Road (Plan TASH 2547). The area is a slight topographic depression and has a vegetation anomaly which might be indicative of deeply weathered carbonate.

Field examination has failed to locate any direct evidence of carbonate but outcrop is absent and the extremely dense vegetation prevents a thorough search.

6.2.1 Future Work

As this photo-interpreted carbonate zone is the most obvious target within the EL for a magnesite occurrence it is worthy of detailed evaluation. The most cost effective approach would be to bulldoze a track across the target area and to drill short open holes to approximately 50 metres depth at 200m intervals. Approximately 300m of drilling is envisaged.

Attempts to use geophysical techniques instead of drilling are not recommended in view of experience over the Lyons-Arthur River deposit. Costeaming might be an alternative to drilling if cover is not thick.

7. GOLD PROSPECTS/ANOMALIES

7.1 Folly Hill

Previous exploration (Large and Poltock 1981) has located several gold anomalies in the Folly Hill-Frog Hill areas. These appear to be related to a carbonate zone within the phyllites and not to any Tertiary alluvial features as originally thought (Clementson 1985).

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7.1.1 Jacro Drilling

A line of Jacro auger drill holes were completed across the postulated gold bearing carbonate zone at Folly Hill (Plan TASH 2520). A total of 16 auger holes from 1 to 26m depth were drilled and sampled. No gold anomalism was recorded (Appendix 1) but indications of siliceous clays after carbonate were found.

7.1.2 Future Work

A reconnaissance grid should be cut over the Frog-Folly Hill area to allow mapping and detailed sampling of the phyllite-carbonate zone.

7.2 Arthur River Anomaly

Gold anomalies (up to 300 ppb Au) in sediment samples from creeks draining into the Arthur River were followed up by a line of Jacro auger holes over part of the catchment.

7.2.1 Jacro Drilling

A total of 14 auger holes from 2 to 26 metres depth were completed (Plan TASH 2520). No anomalous gold geochemistry was returned from any of the drill samples. All holes intersected weathered phyllites and schists.

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7.2.2 Future Work

The Jacro drilling was carried out because the rig was available in the area, the work was never designed as an exhaustive test of the anomalies. Additional drainage sampling followed by gridding, mapping and soil/rock sampling is required.

7.3 Comstaff Creek

A gold anomaly (cyanide leach, 3650 ppt) located in the 1984 programme within a catchment of phyllites and schists has not yet been followed-up. (Clementson, 1985, Plan TASH 2546).

This area is within the Lyons-Arthur River magnesite corridor and follow-up of the gold anomaly will also help to elucidate the geology of the corridor.

8. REFERENCES

- | | | |
|----------------------------|------|---|
| Clementson, I M | 1985 | "Rapid River EL 1/79 North West Tasmania. Progress Report on Exploration, February 198 4 -February 198 ⁵ ." CRAE Unpub. report 13136. |
| Large, R R &
Poltock, R | 1980 | "Progress Report EL 1/79, 1980 Season". Geopeko Unpub. report. |

81-1584

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9. LOCATION

Burnie 1:250 000 Sheet SK55-3

10. KEYWORDS

Geology - Arthur Lineament, magnesite, phyllites,
dolomite.

Geochemistry - stream sediment, rock chip, gold.

11. LIST OF PLANS

<u>Plan No</u>		<u>Scale</u>
TASh 2926	Rapid River EL 1/79 Location Plan	1:1 000 000
TASh 2927	Rapid River EL 1/79 EL Plan & Prospect Locations	1:100 000
TASh 2500	Rapid River EL 1/79 Geology Plan	1:50 000
TASh 2928	Rapid River EL 1/79 Magnesite Occurrences and Possible Strike Extensions	1:50 000
TASh 2520	Rapid River EL 1/79 Geology and Gold Geochemistry of the Folly Hill-Arthur River Area	1:10 000
TASh 2547	Rapid River EL 1/79 Photo-Interpreted Carbonate Zone	1:25 000
TASh 2546	Rapid River EL 1/79 Comstaff Zinc Anomaly Area	1:5 000

12. LIST OF APPENDICES

Appendix I Sample Ledgers and Results

APPENDIX I

SAMPLE LEDGERS AND RESULTS

PROJECT ARTHUR LINEAMENT

GEOCHEMICAL SAMPLING LEDGER

DATES : 5 March 85

TENEMENT RAPID RIVER EL179

LAB. Artesia ALS

AREA / PROSPECT ARTHUR, AU

GEOLOGIST LMC / P. MCK. SAMPLE TYPE POWER AUGER (SACID)

PAGE NO. 1

SAMPLE NUMBER	GRID REF.	ANALYSES										DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE				
		Cu	Pb	Zn	Ag	Fe %	Au											
974821	367450E	75	15	85	<1	3.20	<0.01										30347	Miscellaneous sandy ochist, weathered 2.5-2.6m depth.
	544205N																	
822	↑	15	25	30	<1	3.50	<0.01											Talcose, or-br clay. Miscellaneous 5-6m depth.
823		50	10	20	<1	3.00	0.01											Red-yl-br mic. sandy clay. 3-4m depth.
824		60	30	70	<1	3.75	0.05											White or-br ochist + v.gz 3-4m depth.
825		65	30	10	<1	3.65	<0.01											Or-brown weathered ochist 3-4m depth.
826		35	20	20	<1	3.30	0.01											Or-brown weather ochist 1.5-2m depth.
827		45	20	30	<1	2.75	<0.01											White mic. sandy ochist 3.5-4m.
828		55	30	20	<1	3.45	<0.01											Red-br weather ochist 4.5-5.5m.
829		600	25	140	1	15.3	0.01											Clayrich weather ochist 14-18m.
830		75	110	50	1	13.3	<0.01											Or-brown clay-hematitic? layers 8-9m.
831		130	30	50	<1	6.40	0.01											Or-brown sandy clay 8-9m.
832		25	20	35	<1	3.25	<0.01											Gray mica ochist 4-4.5m.
833		440	25	105	<1	14.0	<0.01											Or-br clay weather ochist 8-9m.
974834	367450E	420	35	150	1	12.3	0.01											Or-br micaceous clay 5-6m.
	5440920N																	
METHOD																		
DETLIMIT		2	5	2	1	0.01	0.01											

SAMPLES COLLECTED AT SITES 100M APART ALONG ROAD BETWEEN THESE END POINTS

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PROJECT ARTHUR LINEAMENT
 TENEMENT RAPID RIVER EL 1139
 AREA / PROSPECT FOLLY HILL

GEOCHEMICAL SAMPLING LEDGER

GEOLOGIST I. M. CLARKE SAMPLE TYPE AUGER SAMPLE

DATES: 26 FEB 1985
 LAB. UNDEL ALS
 PAGE NO.

SAMPLE NUMBER	GRID REF.	ANALYSES																	DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE			
		Cu	Pb	Zn	Ag	Fe%	Au	SrO ₂ %	Al ₂ O ₃ %	TiO ₂ %	Fe ₂ O ₃ %	MnO%	MgO%	CaO%	Na ₂ O%	K ₂ O%	P ₂ O ₅ %	SiO ₂ %				L.O.I.%		
990471	363440E 5430820N	10	15	30	<1	2.45	0.02														30347	5-7m depth Buff. talcose weath. schist - orig. siltstone		
990472	363490E 5430880N	30	15	10	<1	0.50	0.01																5-8m depth Gray phyllitic shales	
990473	363490E 5430880N	65	55	55	<1	4.85	0.01																Surface float: vein quartz ± abundant green chlorite.	
990474	363530E 5430895N	65	15	10	<1	1.35	0.01																15-17m depth. Mid grey talcose shale - phyllite.	
990475	363585E 5430900N	110	110	160	<1	1.55	0.01																24-26m depth. Buff. silty granite with high clay content. ? carb.	
990476	363640E 5430880N	125	50	105	<1	3.65	0.01																5-8m depth - green weathered ? amphibolite ?? Chloritic	
990477	363640E 5430880N	35	25	25	<1	1.45	0.02																8-10m depth - buff talcose silt grade schist + qz veins.	
990478	363660E 5430890E	2	5	5	<1	0.27	0.01																12-14m depth: white friable fine silica angular. Ex carbonate	
990479	363695E 5430895N 5445815N	10	40	260	<1	4.80	0.01	73.8	8.15	0.45	9.45	0.42	0.86	0.11	0.11	2.34	0.11	0.01	3.37				19-21m depth. Ochre-brown clay "occ" silica imp? Ex carbonate	
990480	363740E 5430785N	20	40	95	<1	2.90	0.01																8-10m depth. A/a above beneath a silica horizon.	
990481	363820E 5430765N	5	5	5	<1	0.60	0.01																4-5m depth: buff micaceous and talcose siltstone.	
990482	363865E 5430720N	<2	15	10	<1	0.63	0.01																4-5m depth: as above.	
990483	363910E 5430730N	<2	5	5	<1	0.53	0.01																3-4m depth: as above	
990484	363960E 5430740N	2	5	5	<1	0.45	0.02																3-4m depth: db brown and silty talcose	
990485	364010E 5430745N	<2	5	5	<1	0.40	0.01																1-1.5m depth: cream fine silty qzite	
990486	364110E 5430760N	5	5	5	<1	0.43	0.02																3-4m depth: buff silty siltstone	
990487	364160E 5430755N	<2	<5	<2	<1	0.23	0.01																0-1m depth: pale cream qzite.	
METHOD DET. LIMIT		2	5	2	1	0.01																		

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Telex ALSEV 42344Incorporated
in Queensland

Page 1 of 4

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

Batch Number: C040

Contact: MR. I. CLEMENTSON

No. of Samples: 31
Date Received: 11/03/85
Date Completed: 21/03/85

Order No. D.P.O. 30347

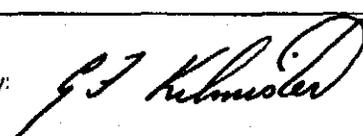
Sample Type: ROCKS, AUGER

SAMPLE NUMBER	Element Unit Method	Cu ppm G001	Pb ppm G001	Zn ppm G001	Ag ppm G001	Fe % G001
990471		10	15	30	<1	2.45
990472		30	15	10	<1	0.50
990473		65	55	55	<1	4.85
990474		65	15	10	<1	1.35
990475		110	110	160	<1	1.55
990476		125	50	105	<1	3.65
990477		35	25	25	<1	1.45
990478		2	5	5	<1	0.27
990479		10	40	260	<1	4.80
990480		20	40	95	<1	2.90
990481		5	5	5	<1	0.60
990482		<2	15	10	<1	0.63
990483		<2	5	5	<1	0.53
990484		2	5	5	<1	0.45
990485		<2	5	5	<1	0.40
990486		5	5	5	<1	0.43
990487		<2	<5	<2	<1	0.23
974821		75	15	85	<1	3.20
974822		15	25	30	<1	3.50
974823		50	10	20	<1	3.00
974824		60	30	70	<1	3.75
974825		65	30	10	<1	3.65
974826		35	20	20	<1	3.30
974827		45	20	30	<1	2.75
974828		55	30	20	<1	3.45
974829		600	25	140	1	15.3
974830		75	110	50	1	13.3
974831		130	30	50	<1	6.40
974832		25	20	35	<1	3.25
974833		440	25	105	1	14.0
Detection Limit		2	5	2	1	0.01

Comments:

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BELLERIVE TAS. 7018

Batch Number: C040

Contact: MR. I. CLEMENTSON

No. of Samples: 31
Date Received: 11/03/85
Date Completed: 21/03/85

D.P.O. 30347

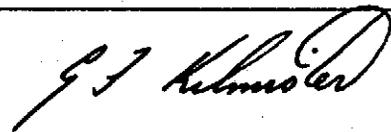
Sample Type: ROCKS, AUGER

SAMPLE NUMBER	Element Unit Method	Au ppm PM209	Au ppm CHECKS		
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990472		0.01			
990473		0.01	0.02		
990474		<0.01	0.01		
990475		0.01			
990476		0.01			
990477		0.02			
990478		<0.01			
990479		0.01			
990480		0.01			
990481		<0.01			
990482		<0.01			
990483		0.01			
990484		0.02			
990485		0.01	0.01		
990486		0.02			
990487		0.01			
974821		<0.01			
974822		<0.01	0.01		
974823		0.01			
974824		0.05			
974825		<0.01			
974826		0.01			
974827		<0.01			
974828		<0.01			
974829		0.01			
974830		<0.01			
974831		0.01			
974832		<0.01			
974833		<0.01			
Detection Limit		0.01			

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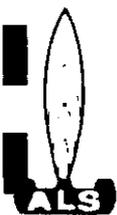
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Batch Number: C040

MR. I. CLEMENTSON

No. of Samples: 31
Date Received: 11/03/85
Date Completed: 21/03/85

D.P.O. 30347

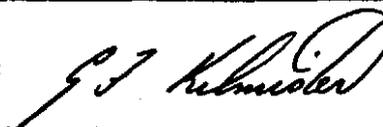
Sample Type: ROCKS, AUGER

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974834		420	35	150	1	12.3
Detection Limit:		2	5	2	1	0.01

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

Batch Number: C040-1

Contact: MR. I. CLEMENTSON

No. of Samples: 8
Date Received: 11/03/85
Date Completed: 21/03/85

Order No: D.F.O. 30347

Sample Type: EX A167, M143

SAMPLE NUMBER	Element Unit Method	Au ppm PM209	Au ppm CHECKS		
(A167-1) 989017		< 0.01	0.01		
(A167-1) 989020		0.03			
(A167-1) 989021		0.01			
(A167-1) 989023		I.S.			
(M143-2) 989310		0.01			
(M143-2) 989340		0.01			
(M143-2) 989342		0.01			
(M143-2) 989337		< 0.01			
Detection Limit:		0.01			

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 Report No.
 990479

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Batch Number: C040-2

Contact: MR. I. CLEMENTSON

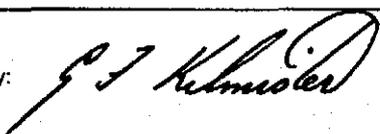
 No. of Samples: 1
 Date Received: 11/03/85
 Date Completed: 21/03/85

Order No D.P.O. 30347

Sample Type: ROCKS, AUGER

SAMPLE NUMBER	Element Unit Method	SiO2 % M275	Al2O % M275	TiO2 % M275	Fe2O3 % M275	MnO % M275
990479		73.8	8.15	0.45	9.45	0.42
Detection Limit						

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 BELLERIVE TAS. 7018

Batch Number: C040-2

Contact: MR. I. CLEMENTSON

No. of Samples: 1
 Date Received: 11/03/85
 Date Completed: 21/03/85

Order No: D.P.O. 30347

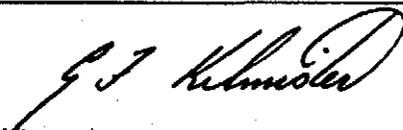
Sample Type: ROCKS, AUGER

SAMPLE NUMBER	Element Unit Method	MgO % M275	CaO % M275	Na2O % M275	K2O % M275	P2O5 % M275
990479		0.86	0.11	0.11	2.34	0.11
Detection Limit						

Comments:

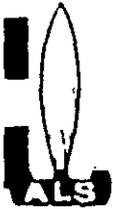
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Signatory:




021

046022



Australian Laboratory Services PTY. LTD.

CONSULTING ANALYTICAL CHEMISTS

LABORATORY REPORT

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

Page 1 of 1

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

Batch Number: C040-3

MR. I. CLEMENTSON

No. of Samples: 1
Date Received: 11/03/85
Date Completed: 21/03/85

D.P.O. 30347

Sample Type: ROCKS, AUGER

SAMPLE NUMBER	Element Unit Method	SrO % M275	L.O.I % M275			
990479		0.01	3.37			
Detection Limit:						

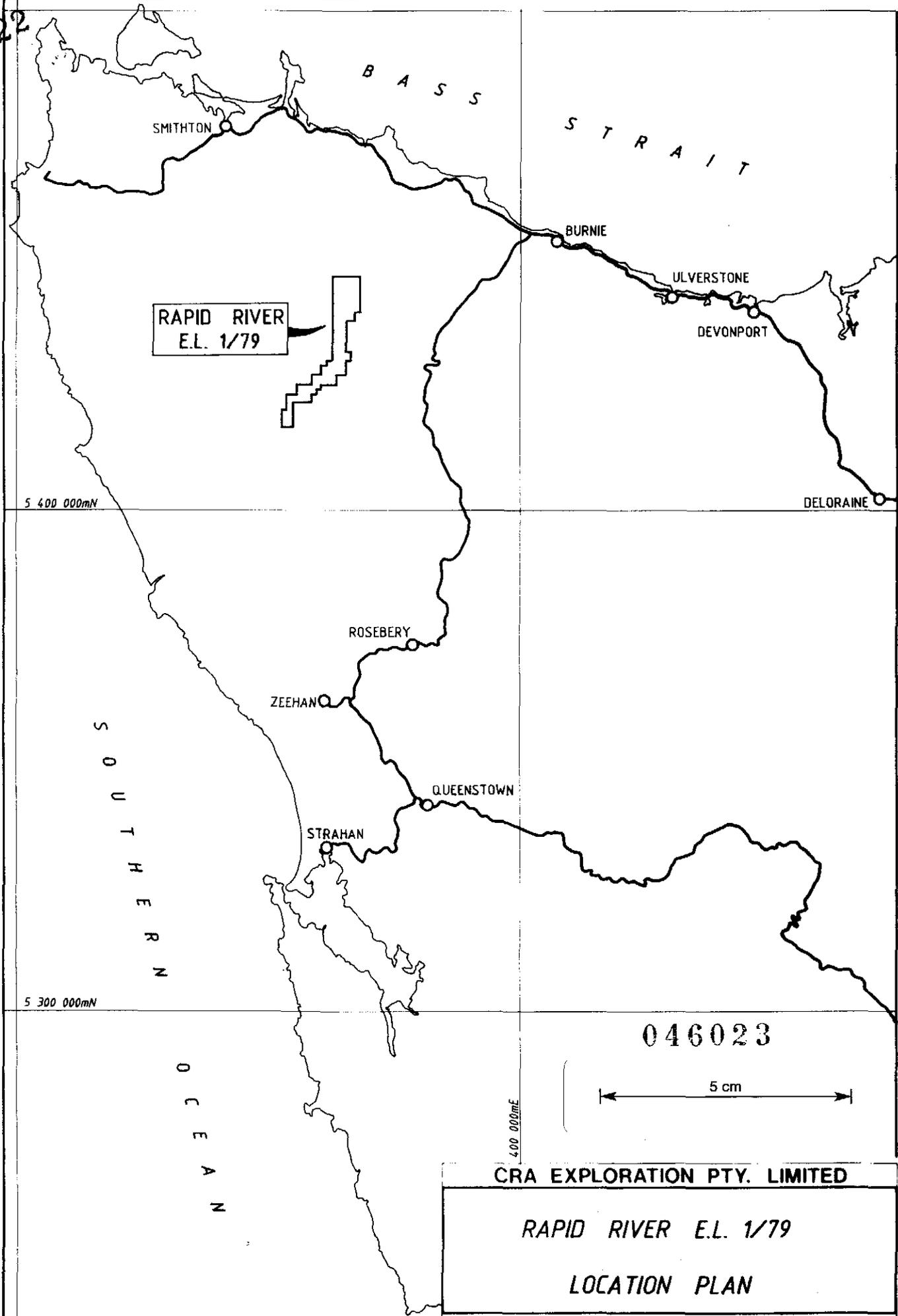
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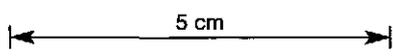
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Signatory: *[Signature]*

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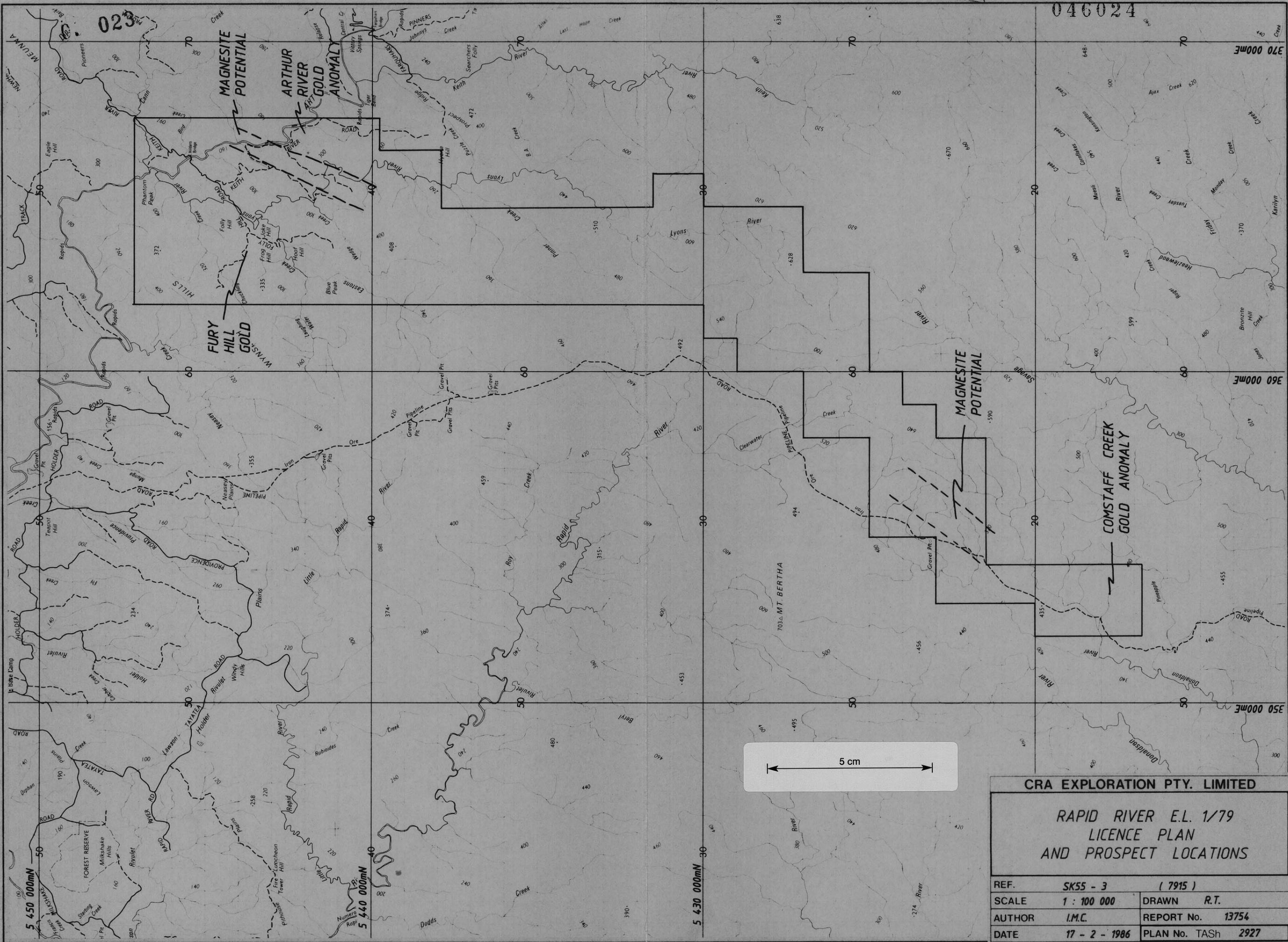
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RAPID RIVER E.L. 1/79

LOCATION PLAN

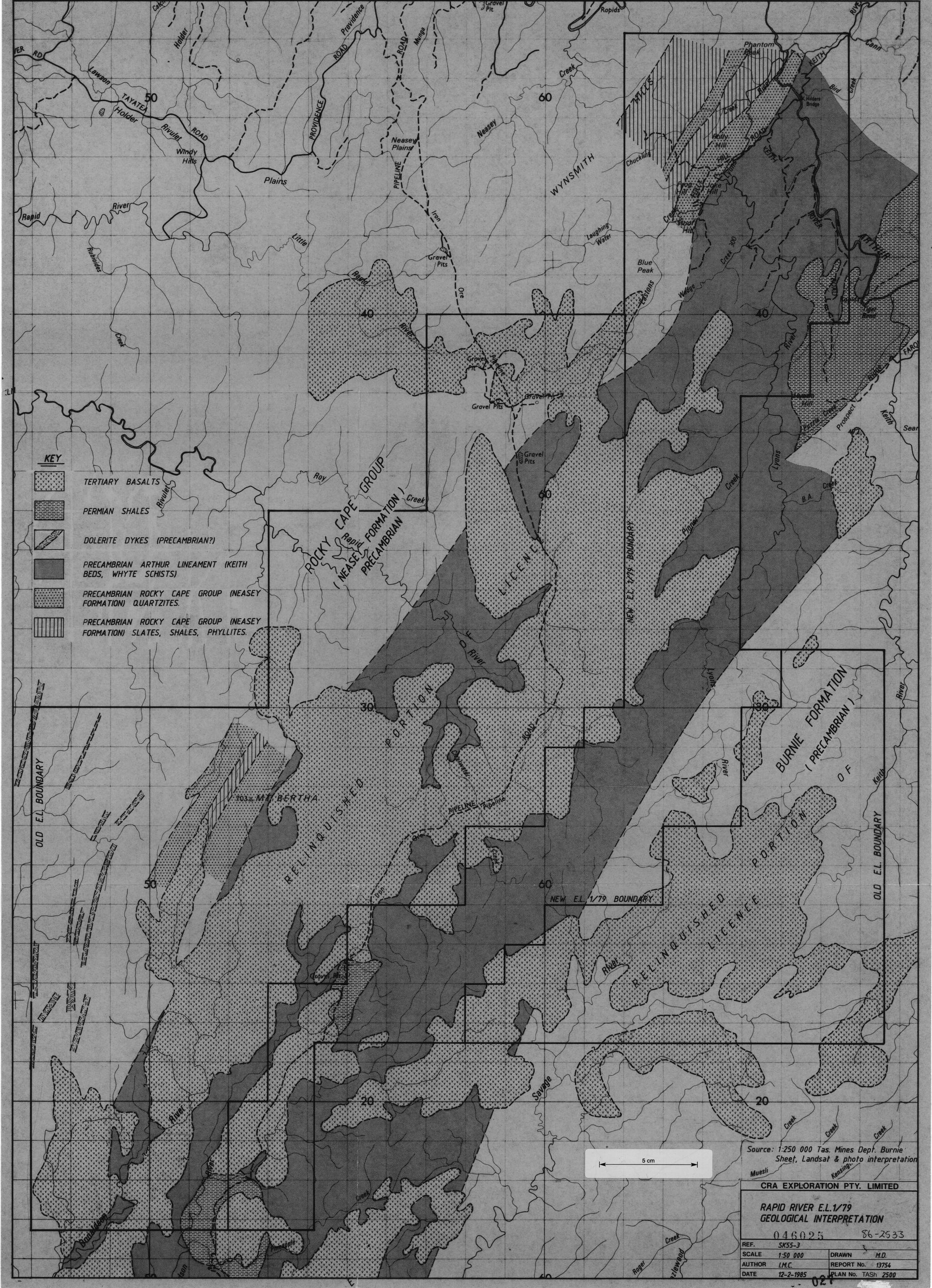
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SCALE	1 : 1 000 000	DRAWN R.T.
AUTHOR	I.M.C.	REPORT No. 13754
DATE	17 - 2 - 1985	PLAN No. TASH 2926

86-2533



CRA EXPLORATION PTY. LIMITED			
RAPID RIVER E.L. 1/79 LICENCE PLAN AND PROSPECT LOCATIONS			
REF.	SK55 - 3	(7915)	
SCALE	1 : 100 000	DRAWN	R.T.
AUTHOR	I.M.C.	REPORT No.	13754
DATE	17 - 2 - 1986	PLAN No.	TASH 2927

46-2533

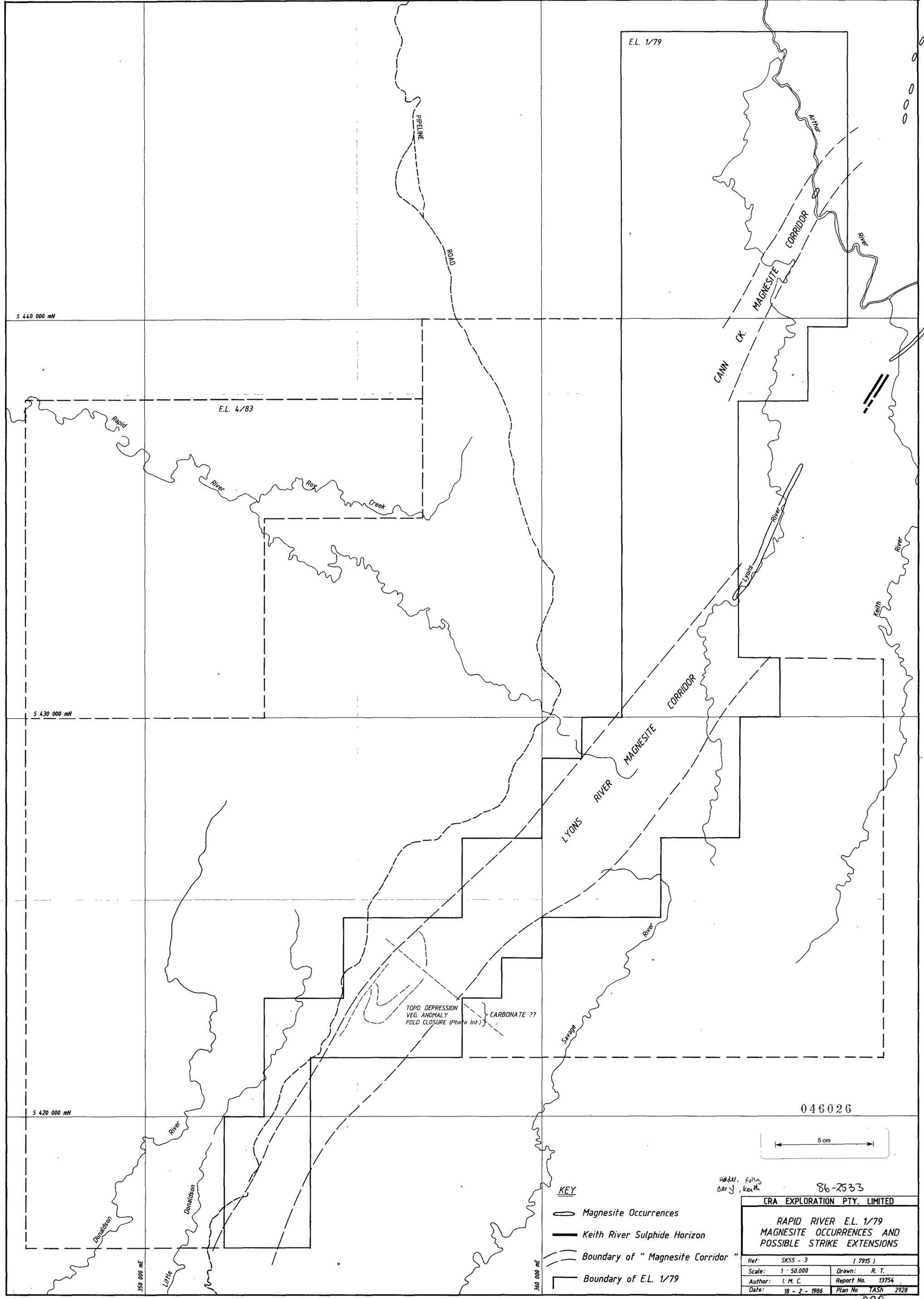


- KEY**
-  TERTIARY BASALTS
 -  PERMIAN SHALES
 -  DOLERITE DYKES (PRECAMBRIAN?)
 -  PRECAMBRIAN ARTHUR LINEAMENT (KEITH BEDS, WHYTE SCHISTS)
 -  PRECAMBRIAN ROCKY CAPE GROUP (NEASEY FORMATION) QUARTZITES.
 -  PRECAMBRIAN ROCKY CAPE GROUP (NEASEY FORMATION) SLATES, SHALES, PHYLLITES.

5 cm

Source: 1:250 000 Tas. Mines Dept. Burnie Sheet, Landsat & photo interpretation

CRA EXPLORATION PTY. LIMITED	
RAPID RIVER E.L.1/79 GEOLOGICAL INTERPRETATION	
046025	86-2533
REF. SK55-3	
SCALE 1:50 000	DRAWN M.D.
AUTHOR L.M.C.	REPORT No. 13754
DATE 12-2-1985	PLAN No. TASH 2500



KEY

- Magnesite Occurrences
- Keith River Sulphide Horizon
- Boundary of "Magnesite Corridor"
- Boundary of E.L. 1/79

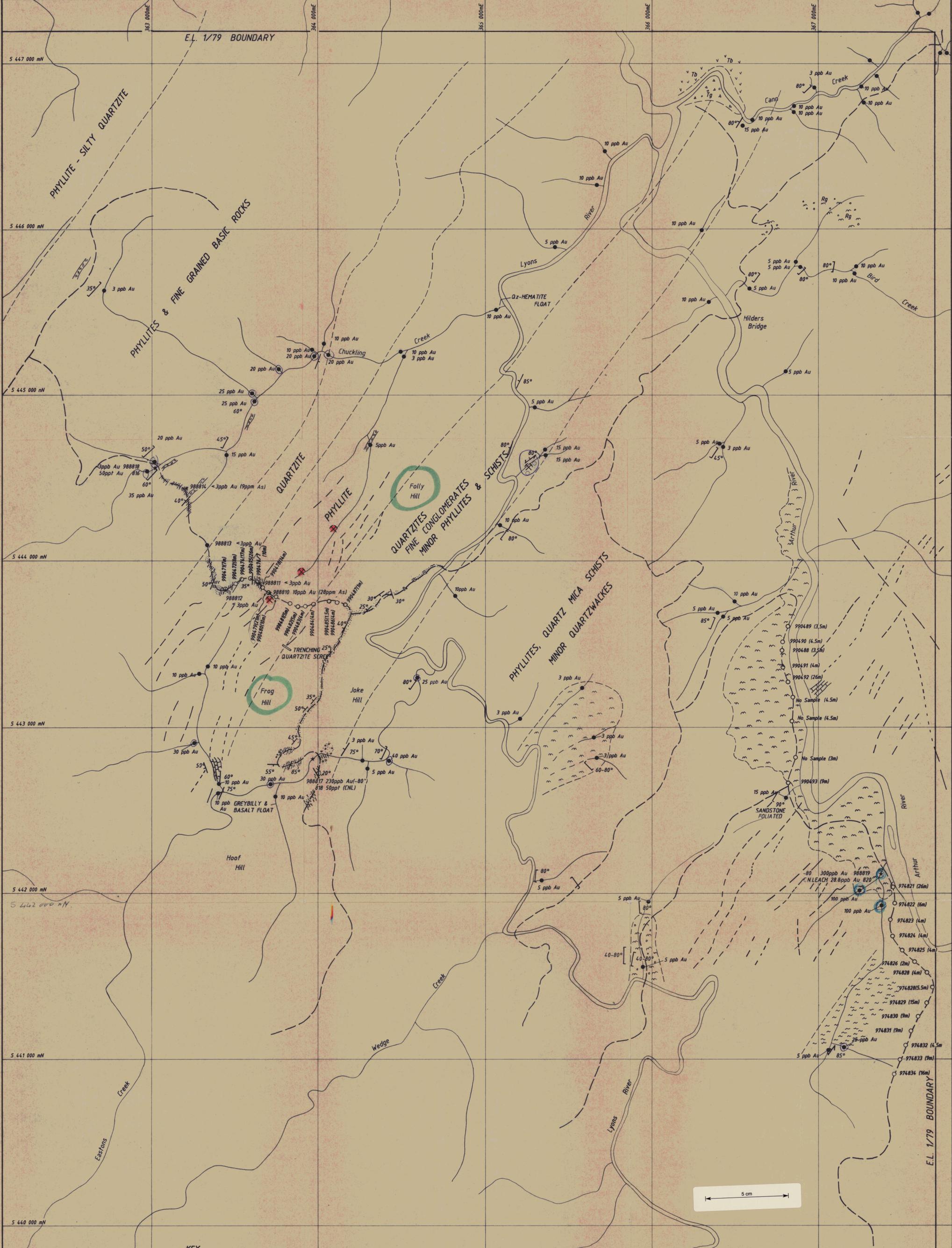
Holder, Folio
Barry, Keith

86-2533

CRA EXPLORATION PTY. LIMITED

**RAPID RIVER E.L. 1/79
MAGNESITE OCCURRENCES AND
POSSIBLE STRIKE EXTENSIONS**

Ref:	SK55 - 3	(7915)
Scale:	1 - 50,000	Drawn: R. T.
Author:	L. M. C.	Report No. 13754
Date:	18 - 2 - 1986	Plan No. TASH 2928



KEY

- DIP BEDDING
- SCHISTOSITY
- FOLIATION
- GOLD WORKINGS
- TRACK
- PHOTO LINEAMENTS

- RECENT GRAVELS
- TERTIARY GRAVELS
- TERTIARY BASALT
- BASIC IGNEOUS ROCKS
- PRECAMBRIAN PHYLLITE/SHALE
- PRECAMBRIAN QUARTZITE & QUARTZWACKE

- PRECAMBRIAN CONGLOMERATE
- PRECAMBRIAN FINE GRAINED SCHISTS
- PRECAMBRIAN CARBONATE
- GEOPKO SAMPLE LOCATION
- C.R.A.E. SAMPLE LOCATION
- JACRO AUGER HOLE (Sample No. & Total Drilled Depth)

SOURCES: Photo Interpretation
Geopko Mapping
CRAE Mapping

046027

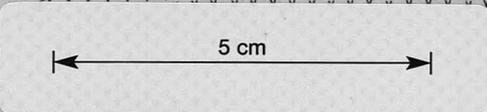
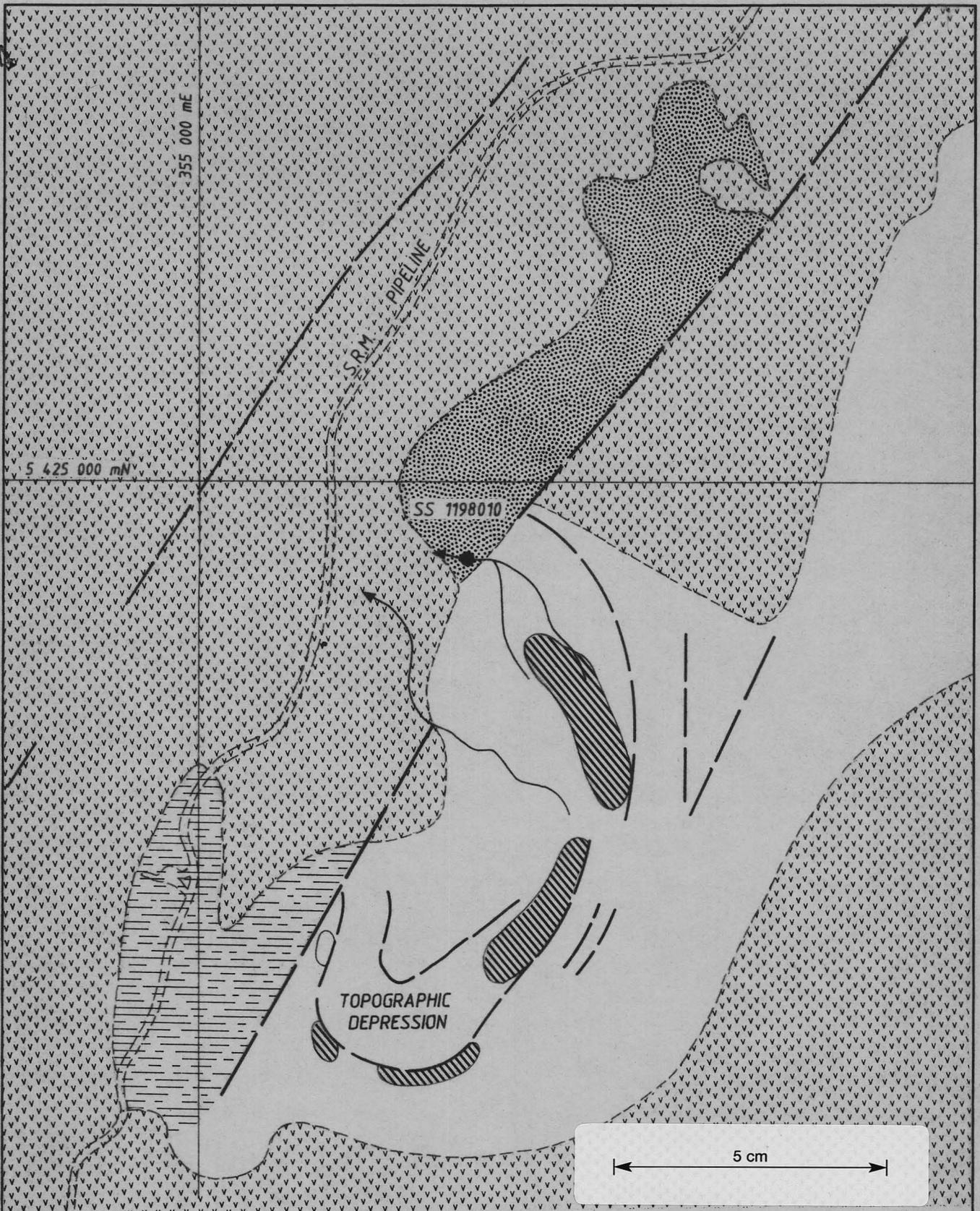
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**RAPID RIVER E.L. 1/9
GEOLOGY AND GOLD GEOCHEMISTRY
OF THE FOLLY HILL
ARTHUR RIVER AREA**

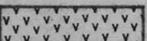
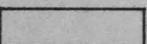
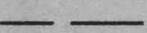
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SCALE 1:10 000	DRAWN M.D.
AUTHOR L.M.C.	DATE 18-2-1985
DATE 18-2-1985	PLAN No. TASH 2520

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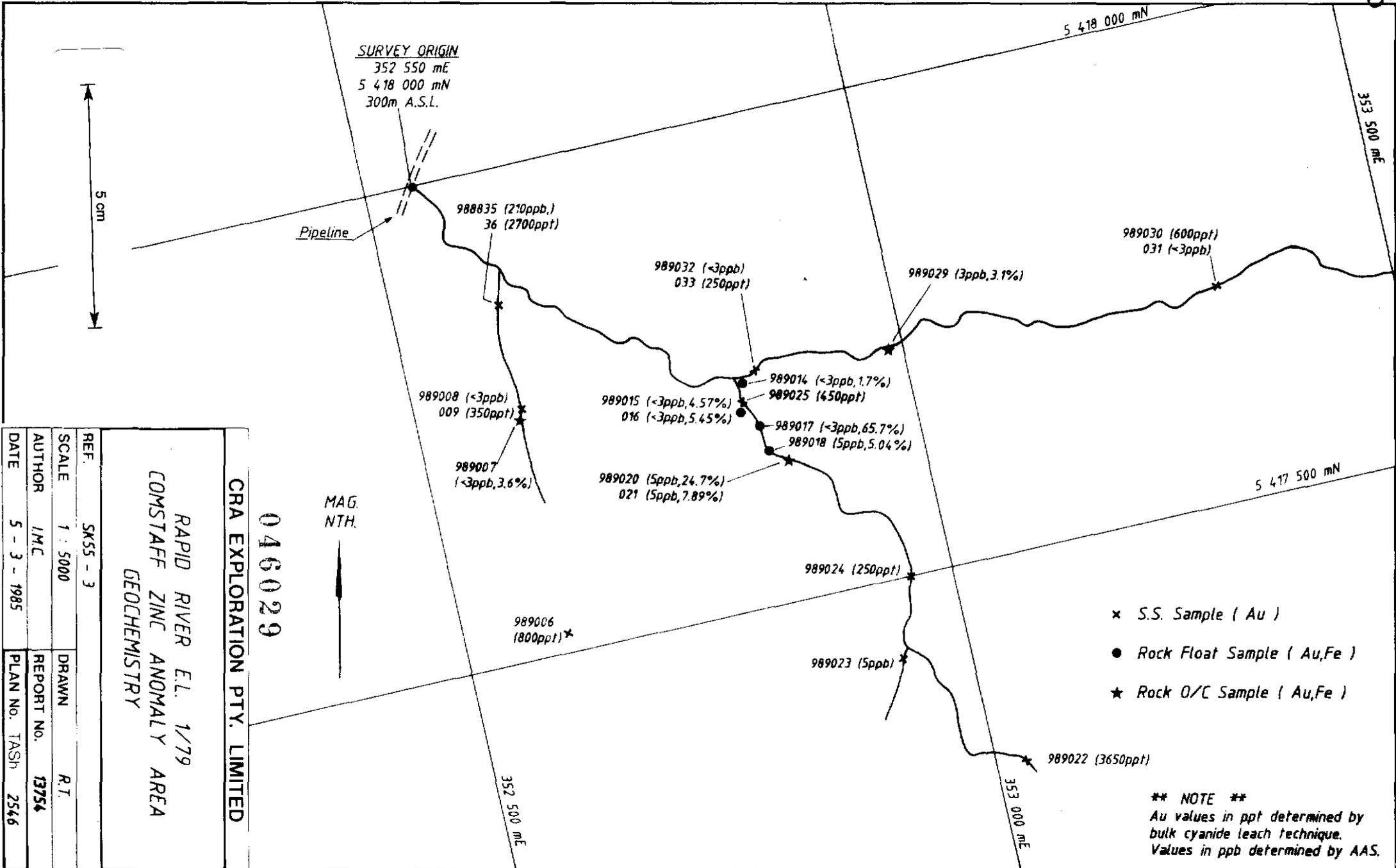
-  VEGETATION ANOMALY
-  TERTIARY BASALT
-  SUB BASALTIC GRAVEL
-  PERMIAN
-  PRECAMBRIAN
-  PHOTO LINEARS
-  SS 1198010 SS SAMPLE SITE & NUMBER

CRA EXPLORATION PTY. LIMITED

RAPID RIVER E.L. 1/79
PHOTO - INTERPRETED
CARBONATE ZONE

REF.	SK55 - 3	
SCALE	1: 25000	DRAWN R.T.
AUTHOR	V.A.W.	REPORT No. 13754
DATE	5 - 3 - 1985	PLAN No. TASH 2547

86-2533



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