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946001

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TITLE:

E.L. 10/76 CETHANA

REPORT ON EXPLORATION FOR 12 MONTHS

TO FEBRUARY 1987

AUTHOR: *S.J. Caithness &
T. von Strokirch*

AMG REFERENCE POINTS ADDED

DATE: *5 February, 1987.*

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CRA REPORT NO.: 14327

87-2640

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DEPARTMENT OF MINES - TASMANIA
MINERAL INDUSTRY UNPUBLISHED REPORT

REPORT NUMBER TCR _____

DATA SHEET

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AUTHOR(S): S J CAITHNESS & T VON STROKIRCH
DATE: 5 February 1987

TITLE: EL 10/76 CETHANA
REPORT ON EXPLORATION FOR 12 MONTHS TO FEBRUARY 1987

COMPANY(S): CRA EXPLORATION PTY LIMITED

FORMAT: No. of Volumes: 1 Structure: 6 Pges Text, 6 Plans, 2 Appendices

COMPANY REF. (if any): CRAE Rep 14327

LICENCE / LEASE: EL 10/76 CETHANA

LOCALITY: SK55- 1 2 3 4 5 6 7 8
Map sheet: BURNIE SK5503

Geographic: ROUND MOUNTAIN
(not in title)

MAPPING - GEOLOGICAL <input type="checkbox"/> Surface - scale : <input type="checkbox"/> Mine/Underground	GEOPHYSICS GND/AIR <input type="checkbox"/> Magnetic <input type="checkbox"/> Electromagnetic <input type="checkbox"/> Radiometric <input type="checkbox"/> A.P. <input type="checkbox"/> S.P. <input type="checkbox"/> E.P. <input type="checkbox"/> E.I.P./M.I.P <input type="checkbox"/> Resist. <input type="checkbox"/> Gravity <input type="checkbox"/> Seismic - Refraction <input type="checkbox"/> Seismic - Reflection <input type="checkbox"/> On - shore <input type="checkbox"/> Off - shore <input type="checkbox"/> Well - logging	GEOCHEMISTRY <input checked="" type="checkbox"/> Stream Sediment <input type="checkbox"/> Soil : _____ <input type="checkbox"/> Rock - chip <input type="checkbox"/> Gossan <input type="checkbox"/> Water : _____ <input type="checkbox"/> Biogeochemistry <input checked="" type="checkbox"/> Cu <input checked="" type="checkbox"/> Pb <input checked="" type="checkbox"/> Zn <input type="checkbox"/> Sn <input type="checkbox"/> W <input type="checkbox"/> Mo <u>Au</u> <input type="checkbox"/> Rock: <input type="checkbox"/> Maj. <input type="checkbox"/> Tr.	<input type="checkbox"/> PETROLOGY <input type="checkbox"/> ORE GENESIS <input type="checkbox"/> ORE RESERVES <input type="checkbox"/> FEASIBILITY STUDY <input type="checkbox"/> MINERAL PROCESSING <input type="checkbox"/> MINING <input type="checkbox"/> ENVIRONMENT <input type="checkbox"/> ENGINEER. GEOLOGY <input type="checkbox"/> INDUST. MINERALS <input type="checkbox"/> CONSTRUCT. MAT. <input type="checkbox"/> FUELS : _____

MINERALS : _____

MINE / DEPOSIT NAME(S) : Round Mountain Ag/Pb

OTHER KEYWORDS : Geochemistry-Drainage, Drill Diamond,
Drill Percussion, Volcanics

ANNOTATION : _____

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EL 10/76 CETHANA

REPORT ON EXPLORATION FOR 12 MONTHS

TO FEBRUARY 1987

OPEN FILE

Authors: S J Caithness &
T von Strokirch

Date: 5 February 1987

Submitted to: T W Dickson

Accepted by: 

Copies: CRAE Hobart
CRAE Canberra
Department of Mines,
Tasmania

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1. SUMMARY

Two diamond drillholes were drilled to test the Cethana West prospect. The holes tested a suite of tuffs, shales and schists. No major concentration of sulphides was intersected.

2. INTRODUCTION

This report describes all work carried out over Cethana, EL 10/76 for the 12 months ending 28th February 1987. The EL was pegged in 1976 to cover a relinquished Mines Department Reserve within EL 7/73.

Work carried out over the EL to date includes stream sediment, soil and rock chip geochemistry, gridding, geophysics, geological mapping and drilling.

3. CONCLUSIONS

Drilling to test for possible base metal extensions of the pyrite zone in PD84 CC9 did not discover significant quantities of sulphide. Drilling of DD86 CC13 to test a prospective geological sequence and a geochemical anomaly was also unsuccessful. Further anomalous gold was detected in stream sediments.

4. RECOMMENDATIONS

No further drilling is recommended at this stage.

Follow-up drainage sampling and geological investigation of the old mine sites within the EL remains important.

004

5. GEOLOGY

EL 10/76 covers a portion of the northeastern extension of the Cambrian Mt Read Volcanic Belt. These volcanics are unconformably overlain by the Roland conglomerate which underlies the Ordovician Moina Sandstone. Numerous old workings are scattered in and around the EL. Details of the geology are shown on Plan TASH 2915 (after Jennings, 1979).

6. DRILLING

6.1 Results

Two holes were drilled to test the Cethana West prospect.

The first hole, DD86 CC11 was designed to test a UTEM response associated with favourable geology, along strike from a previous drillhole (PD84 CC9) which reported semi massive sulphide mineralisation. This sulphide consisted largely of pyrite within pyritic black shales in a sequence of highly altered volcanics. It was hoped that a weaker extension of the UTEM anomaly might represent more massive zinc rich sulphides of lower conductivity.

Hole DD86 CC11 was drilled to test this anomaly. This hole was abandoned at 77 metres due to drilling difficulties and a redrill (DD86 CC12) was collared one metre away. The hole traversed a sequence of chloritically and sericitically altered tuffs. The best assay results were between 69.0 and 73.3 metres where 0.3% combined sulphides were recorded.

005

DD86 CC13 was designed to test a C horizon soil geochemical anomaly and a prospective geological sequence.

The first material recovered from the hole was a quartz sericite schist from 9 to 16 metres. Thereafter the hole traversed a sequence of tuffs with an increasing sediment component at the bottom of the hole. Chlorite alteration is ubiquitous throughout the hole. A generally high background level of Pb and Zn was recorded in the assays including a value of 0.8 at 134.0 to 137.0 metres. Cu was low.

6.2 Downhole Geophysics

Downhole EM surveying was recommended for the drillholes but insurmountable noise problems were encountered as both holes were drilled within 50 metres of major high tension power lines. The survey was then abandoned.

6.3 Discussion

Neither of the holes intersected significant quantities of sulphides. All the most promising anomalies from the geochemistry, IP and UTEM surveys have been tested and re-appraisal of the EL is now required.

006

7. REGIONAL STREAM GEOCHEMISTRY

Four follow-up locations were sampled to test an anomaly recorded in Machinery Creek near the Cethana Bridge (Appendix 2). These continue to be anomalous for gold although the -80 mesh samples are not consistent with the cyanide leach sampling. The -80 mesh sampling recorded significant gold (2.8 ppm) only upstream in Machinery Creek, whereas a cyanide leach anomaly of 2550 ppt was noted in a tributary draining from the north.

These gold anomalies both require further tracing. At this stage a likely source for the Machinery Creek anomaly is still likely to be the Round Mountain Ag/Pb Mine. The mine area should therefore be tested for gold.

8. REFERENCES

- | | | |
|---------------|------|--|
| Caithness S J | 1986 | EL 10/76 Cethana, North Western Tasmania. Report on Exploration for 12 Months to February 1986. CRAE Report No 13743 |
| Flis M F | 1983 | Exploration of Cethana EL 10/76, North Tasmania 1981-82. CRAE Report No 11923. |
| Jennings I B | 1979 | Geological Atlas, 1 Mile Series, Sheet 37, Sheffield Explanatory Report. Department of Mines, Tasmania. |
| Purvis J G | 1979 | Exploration at East Cethana EL 10/76 Northern Tasmania - September 1977 to September 1979. CRAE Report No 9717. |

Temby P A 1985 EL 10/76 Cethana Area, Northern
Tasmania. Report on Exploration for
12 Months to 28th February 1985.
CRAE Report No 13109

9. LOCATION

Burnie 1:250 000 Sheet SK5503

10. KEYWORDS

Geochemistry-drainage, Drill diamond, Drill percussion,
Volcanics

11. LIST OF PLANS

<u>Plan No</u>		<u>Scale</u>
TASh 2916	Cethana EL 10/76 Location Plan	1:2 000 000
TASh 2662	Sheffield EL 7/73 & Cethana EL 10/76 Location Plan	1:100 000
TASh 2915	Cethana EL 10/76 Geology and Drillhole Location Plan	1:5 000
TASh 2925	Cethana EL 10/76 West Cethana Geophysical & Geochemical Anomaly Compilation	1:5 000
TASh 3086	Cethana EL 10/76 Drillhole DD86 CC13 Section Line 700E (Looking West)	1:1 000

008

TASh 3087 Cethana EL 10/76 Drillhole
DD86 CC12 Section Line 900E
(Looking West) 1:1 000

12. LIST OF APPENDICES

- Appendix 1 Drilling Logs and Assay Results from the
1986 Cethana Drilling
- Appendix 2 Stream Sediment Geochemistry Results

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APPENDIX 1

DRILLING LOGS AND ASSAY RESULTS

FROM THE 1986 CETHANA DRILLING

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

SHEET No. 1

TENEMENT NAME... CETHANA... EL No. 10/76

PLAN - MAP REFERENCE... 01

CO-ORDINATES 700E 21S AZIMUTH 232° AMQ DRILLERS K. Paay COMMENCED 1-5-86 DEPTH 190m HOLE No JDB60212

RL COLLAR INCLINATION -55° DRILL TYPE BOYLE COMPLETED 9-5-86 CASING LEFT DPO No(s) 32040

DEPTH		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... ALS)										
From (M)	To (M)										Cu	Pb	Zn	Ag	As	% Fe	Mn	Ba	Au		
0.0	45.5				Pre-collar																
45.5	66.4				Pale green-brown, sericitic lithic tuff; contains clasts up to 5cm across; clasts are rounded	Highly sericitic core; minor haematite alteration of some fragments giving them a red-brown colour; minor chlorite alteration	119B251	45.5	48.0		10	360	420	2	<1	2.79	1.08%	2000	0.02		
						Minor disseminated and veined sulphide mineraliza- -ion (py, sp), approximately 3% overall but reaching 5-10% in narrow zones (eg 47.3-47.4m) Well developed foliation.	252	48.0	51.0		20	145	470	3	<1	2.29	6200	2100	6.0		
							253	51.0	54.0		20	400	550	3	<1	2.76	6500	1500	0		
							254	54.0	57.0		40	430	390	5	10	3.57	4000	1450	6.0		
							255	57.0	60.0		25	200	660	3	<1	4.43	8750	1600	0.02		
							256	60.0	63.0		20	250	850	3	<1	3.59	3750	1750	0.02		
							257	63.0	66.4		85	350	1850	3	<1	7.79	7050	800	0.02		
66.4	73.4				Dark green-mottled brown vitic tuff containing approx. 5% coarse lithic clasts; clast range to 4cm across and are commonly rounded to subangular; clasts often of cherty composition and contain spines cracks which have been argillically (?) altered.	Strong sericite alteration and common haematite alteration of clasts; weak perussive carbonate alter- Trace-minor disseminated pyrite blebs. Foliation developed.	119B258	66.4	69.0		640	620	4200	7	<1	9.52	6950	600	0.02		
							259	69.0	71.0		145	220	1250	3	<1	12.5	7300	600	6.0		
							260	71.0	73.3		20	340	1550	3	4	10.2	3600	400	0.02		
73.4	105.1				Pale brown-gray sericitic lithic tuff containing clasts up to 3cm.	Highly sericitic with minor chlorite alteration; weak perussive carbonate. Common pyrite up to 5%.	119B261	73.3	77.0		30	340	970	3	<1	1.92	3000	2150	0		
							262	77.0	80.0		30	220	500	2	<1	1.93	2100	1100	0		
							263	80.0	83.0		120	55	300	2	<1	3.03	3000	1450	0		
							264	83.0	86.0		40	100	430	2	<1	3.19	2450	1500	0		

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DRILL CORE LOG

SHEET No. 2

TENEMENT NAME CETHANIA EL No. 10/76

PLAN - MAP REFERENCE 01

CO-ORDINATES 700E 20S AZIMUTH 232° AMG DRILLERS K. PARRY COMMENCED 1-5-86 DEPTH 90m HOLE No. DD086CL2

RL COLLAR..... INCLINATION -55° DRILL TYPE ROTLISS COMPLETED 9-5-86 CASING LEFT..... DPO No(s).....

DEPTH		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.....)									
From (M)	To (M)										Cu	Pb	Zn	Ag	As	% Fe	Mn	Ba	Au	
						with occasional semi-massive veins; trace galena	1198265	86.0	89.0		50	1000	1200	2	<1	3.47	3450	1550	0.8	
						92.9-94.7m Quartz veins + shear zone; carbonate and sericite; argillite alter ⁿ ; trace pyrite and galena	266	89.0	92.0		60	90	670	2	<1	5.07	2550	1200	<0.01	
							267	92.0	95.0		90	1650	2550	4	3	4.35	6800	980	0.2	
							268	95.0	98.0		25	420	500	2	<1	4.39	1850	970	<0.0	
							269	98.0	101.0		20	730	1400	2	<1	3.72	3300	1350	<0.01	
							270	101.0	105.1		45	620	900	2	<1	3.26	3900	1200	0.2	
						97.4-100.1m Quartz vein and shear zone as above.														
105.1	117.4				Green-brown chloritic + sericitic lithic tuff containing coarse clasts up to 3cm; clasts generally rounded and of variable composition	Differs from previous unit due to darker green colour. Intense sericite and moderate chlorite alteration; weak pervasive carbonate. Minor disseminated and vein pyrite with trace galena. Foliation developed.	1198271	105.1	107.0		125	410	1100	3	<1	5.00	6950	880	0.3	
							272	107.0	110.0		30	210	640	2	<1	5.38	8250	1250	0.2	
							273	110.0	113.0		15	120	460	3	<1	4.67	5980	2350	<0.0	
							274	113.0	115.0		20	280	400	3	<1	4.78	4000	3150	<0.0	
							275	115.0	117.4		20	175	520	2	<1	4.92	4200	1250	0.0	
						110.45-110.65m Quartz vein with carbonate.														
117.4	121.0				Pale green sericitic lithic tuff containing coarse rounded clasts up to 5cm across; clasts of variable composition	Intense sericite alteration. Foliation developed.	1198276	117.4	119.0		10	55	310	2	<1	3.65	6850	1000	<0.0	
							277	119.0	122.0		20	95	340	2	<1	2.97	2350	1450	<0.0	
						117.65-118.1m Fractured quartz + carbonate vein.														
121.0	156.0				Grey-green sericitic and chloritic lithic tuff; rounded clasts up to 5cm.	Clasts content increasing with depth; weak pervasive carbonate alteration with	1198278	122.0	125.0		45	240	440	3	<1	4.73	3800	1250	0.7	
							279	125.0	128.0		120	320	360	2	<1	2.87	2650		0.0	
							280	128.0	131.0		20	470	420	2	<1	1.97	3500	1550	0.0	

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DRILL CORE LOG

SHEET No. 1/4

TENEMENT NAME CETHANA EL. No. 10/76

PLAN - MAP REFERENCE

CO-ORDINATES 900E 00N AZIMUTH 232° AMG DRILLERS K. PARRY COMMENCED 13-5-86 DEPTH 229.5m HOLE No. DD86CC13
RL COLLAR..... INCLINATION -60° DRILL TYPE BOYLES COMPLETED 23-5-86 CASING LEFT.....? DPO No(s) 32040

DEPTH		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.....)											
From (M)	To (M)										Cu	Pb	Zn	Ag	As	% Fe	Mn	Ba	Au			
0.0	9.0				Recollar - no core.																	
9.0	16.0				Highly weathered pale green cream coloured quartz sericite schist.	Highly fractured and weathered; strong argillic alteration - some blebs; limonite pitting	1198321	9.0	16.30			30	250	105	2	<1	1.04	65	1750	101		
16.0	108.15				Dark green, medium grained chloritic lithic crystalline tuff; minor coarse lithic clasts up to 3cm at top of unit; foliated.	Moderate potassic chlorite alteration with lesser sericite and minor potassic alteration. Trace-minor pyrite and galena disseminated throughout unit Carbonate occurs as veins and blebs.	1198322	16.3	20.0			20	220	690	2	<1	2.96	380	950	101		
							323	20.0	23.0			10	330	890	2	<1	3.50	530	830	101		
							324	23.0	26.0			15	115	760	2	<1	4.09	680	700	102		
							325	26.0	29.0			20	90	680	2	<1	4.48	1260	680	101		
							326	29.0	32.0			15	195	750	2	<1	4.05	6580	700	101		
							327	32.0	35.0			10	300	1000	2	<1	2.85	9600	1300	105		
							328	35.0	38.0			10	400	920	3	<1	3.89	1197	1400	102		
							329	38.0	41.0			35	370	1280	2	<1	4.03	7550	1100	101		
							330	41.0	44.0			15	180	1050	3	6	5.92	9850	1100	102		
							331	44.0	47.0			45	1150	1950	3	<1	4.38	1103	1650	101		
							332	47.0	50.0			40	1050	4700	3	<1	5.70	6050	1150	103		
							333	50.0	53.0			10	570	950	2	<1	4.07	6500	670	102		
							334	53.0	56.0			5	30	620	2	<1	3.42	3450	1050	102		
							335	56.0	59.0			10	90	550	2	<1	3.30	3900	7700	101		
							336	59.0	62.0			5	15	570	2	<1	2.83	3500	1350	101		
							337	62.0	65.0			15	160	550	2	<1	3.34	2800	1200	101		
							338	65.0	68.0			5	85	590	2	<1	4.06	3250	1250	101		
							339	68.0	71.0			30	1800	660	2	<1	3.40	3850	1550	101		
							340	71.0	74.0			15	105	490	2	2	4.10	3150	980	104		
							341	74.0	77.0			30	680	920	3	<1	4.53	3250	950	102		
							342	77.0	80.0			15	520	640	2	<1	3.31	4100	940	104		
							343	80.0	83.0			20	350	720	6	3	4.08	6550	1950	104		
							344	83.0	86.0			15	300	900	2	<1	4.12	3600	1100	102		

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

SHEET No. 3

946019

TENEMENT NAME..... CETHANNA FL No. 10/76

PLAN - MAP REFERENCE.....

CO-ORDINATES 900E 00N AZIMUTH 232° Amg DRILLERS K. PARRY COMMENCED 13-5-86 DEPTH 229.5m HOLE No. DD86CC13

RL COLLAR..... INCLINATION -60° DRILL TYPE BONES COMPLETED 23-5-86 CASING LEFT..... DPO No(s) 32040

Oily

DEPTH		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 (Analyzed by... ALS)									
From (M)	To (M)										Cu	Pb	Zn	Ag	A	% Fe	Mn	Ba	Au	
139.65	147.0				Pale to dark green lithic crystal tuff; unit has a cherty appearance in places	Moderate-strong potassic chlorite with lesser sericite alteration. Trace disseminated pyrite and galena	1198363	140.0	142.9		15	620	1400	2	<1	3.56	2950	1150	0.02	
							364	142.9	146.5		20	1200	1400	3	<1	4.65	6400	1450	0.01	
147.0	201.0				Dark green, speckled, medium grained chloritic lithic crystal tuff as per 16.0-108.5m	Dominant chlorite with lesser sericite alteration; minor carbonate, potassic and hematitic alteration. Trace disseminated pyrite	1198365	146.5	149.0		15	320	450	2	2	3.13	5550	9350	0.01	
							366	149.0	152.0		35	260	400	2	1	2.64	5450	6850	0.01	
							367	152.0	155.0		20	55	440	2	2	3.68	4550	1850	0.01	
							368	155.0	158.0		15	65	380	1	<1	3.40	5250	2050	0.01	
							369	158.0	162.0		35	250	480	2	<1	3.57	5050	2150	0.0	
					172.5-174.3m Purple hematite alteration zone		370	162.0	165.0		80	370	290	2	3	3.21	5050	2400	0.03	
							371	165.0	168.0		10	30	340	2	<1	3.47	3150	1350	0.02	
					174.3-201.0m Increasing potassic alteration; weak over sericite zone but increases to strong over short intervals		372	168.0	171.0		20	90	340	2	<1	3.81	2950	990	0.02	
							373	171.0	174.0		5	55	270	1	<1	3.13	3150	1050	0.01	
							374	174.0	177.0		5	30	320	1	1	3.10	1750	1850	0.03	
							375	177.0	180.0		5	<5	230	1	<1	2.55	2050	1000	0.0	
							376	180.0	183.0		2	15	330	2	<1	3.31	1850	1500	0.02	
					186.0-187.4m Pale brown- pink potassic and sericite alteration interval.		377	183.0	186.0		10	35	300	1	3	2.97	2950	890	0.02	
							378	186.0	187.4		5	<5	320	1	<1	2.99	2400	1050	0.04	
							379	187.4	188.7		5	420	65	1	<1	0.81	1600	1000	0.04	
					200.85-201.0m Quartz- carbonate veining		380	188.7	192.0		10	40	250	2	<1	2.54	3050	1450	0.0	
							381	192.0	195.0		2	<5	280	2	<1	3.11	2650	2850	0.0	
							382	195.0	198.0		2	<5	230	2	<1	3.05	2450	1150	0.04	
201.0	203.5				Dark green-grey fine grained cherty unit	Chlorite alteration plus weak potassic carbonate. Trace pyrite	383	198.0	201.0		15	<5	175	3	<1	2.35	2000	890	0.03	
							384	201.0	204.0		65	2000	880	3	1	2.92	1850	650	0.0	

019

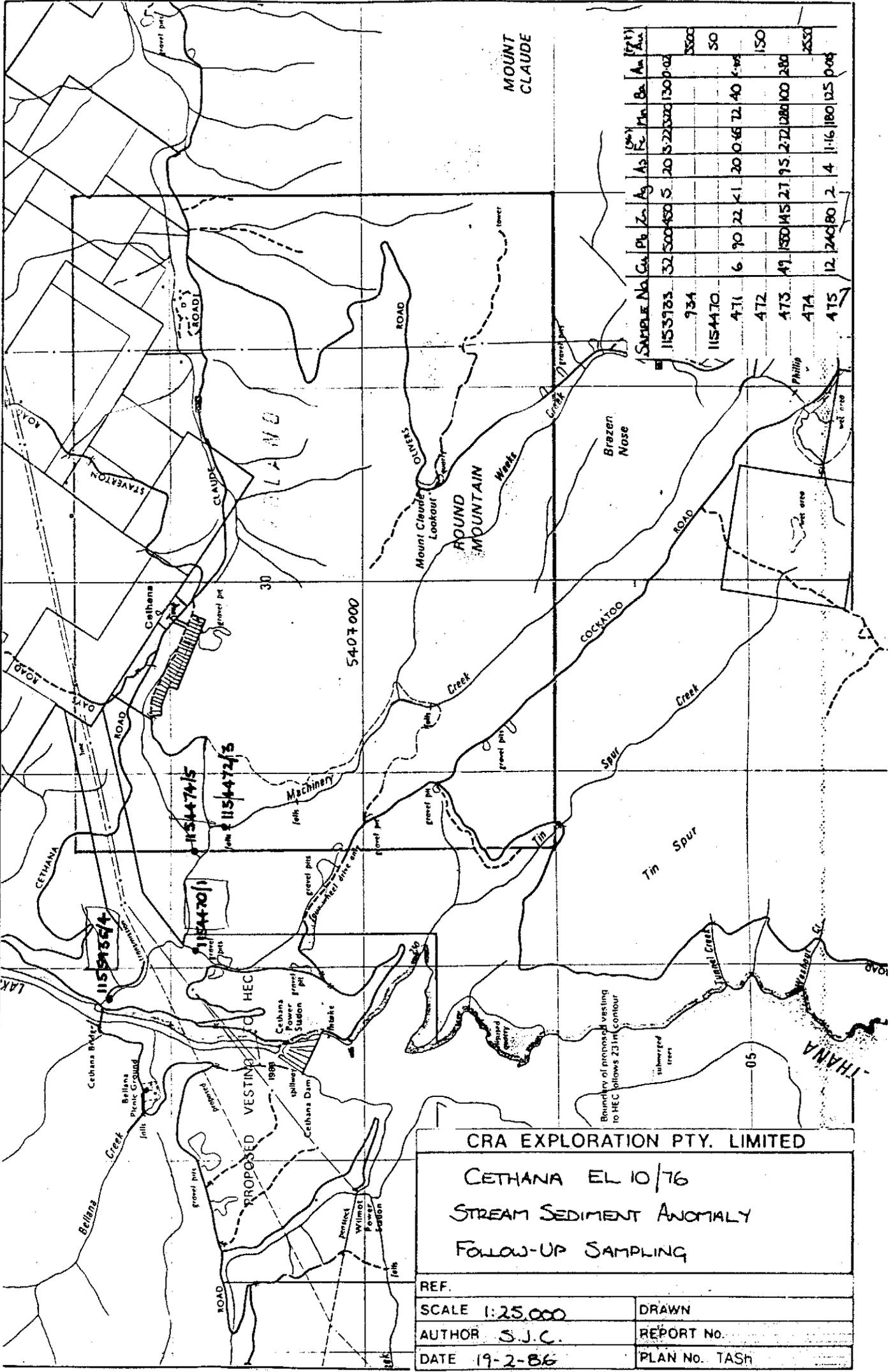
946021

APPENDIX 2

STREAM SEDIMENT GEOCHEMISTRY RESULTS

020

946022



SAMPLE No.	Co	Pb	Zn	Ag	As	Fe	Mn	Ba	Am	(ppm)
1153783	32	500	450	5	20	5	22	300	130	0.02
934										2500
1154470										50
471	6	90	22	<1	20	0.46	72	40		1.50
472										
473	49	1300	45	2.7	9.5	2.72	1200	100	280	
474										2500
475	12	240	180	2	4	11.16	180	125	0.08	

CRA EXPLORATION PTY. LIMITED
 CETHANA EL 10/76
 STREAM SEDIMENT ANOMALY
 FOLLOW-UP SAMPLING

REF.	
SCALE 1:25,000	DRAWN
AUTHOR S.J.C.	REPORT No.
DATE 19-2-86	PLAN No. TASH

5 cm

CRA EXPLORATION PTY. LTD.

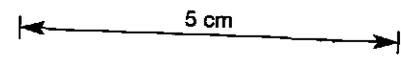
946023

021

SAMPLE NUMBER	LOCATION		Sample Type	ANALYSES										Geological Observations	
	Easting	Northing		Cu	Pb	Zn	Ag	As	Fe (%)	Mn	Ba	Au (ppm)	Au (ppt)		
154470 471	428100	5407870	-4# -80#		6	90	22	<1	20	0.65	72	40	10.005	30	Moderately incised, slow flow; 2m wide; eucalypts; alluvial banks; 10% gravel, 50% sand, 40% silt; moderate organics. Sst; qtz; vein quartz, conglomerate float, quartzite %.
1154472 473	428740	5407700	-4# -80#		49	1550	145	27	95	2.72	1280	100	2.80	150	Well incised; mod. flow; 5m wide; eucalypts; alluvial banks; 40% gravel, 40% sand, 20% silt; low organics. Dominant conglomerate; sst; quartzite; vein-quartz conglomerate %.
1154474 475	428620	5407870	-4# -80#		12	240	80	2	4	1.16	180	125	0.015	2550	Moderately incised; slow flow; 1m wide; eucalypts; alluvial banks; 25% gravel, 45% sand, 30% silt; Mn staining; moderate organics. Dominant conglomerate float; quartzite; sst; vein quartz; siltstone %.

DETECTION LIMIT

ANALYTICAL METHOD



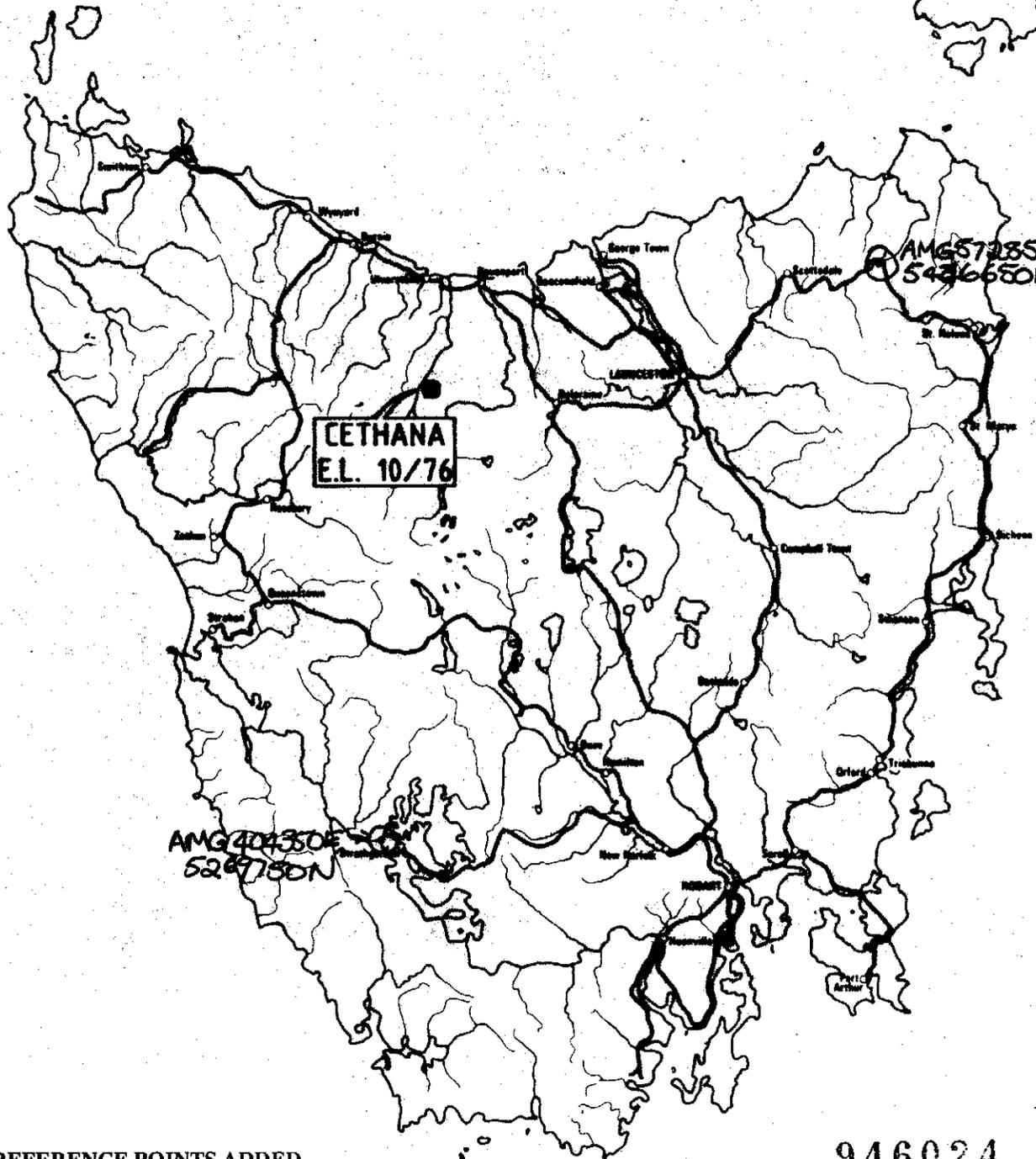
Project	SHEFFIELD - MOINA	1:250 000 Sheet	BURMIE	AMG Zone	Sheet No.	1
Tenement	CETHANA EL 10/76	DPO's		Laboratory	AMDEL	
Area / Prospect	ANOMALY FOLLOW-UP	Collected By	B. FITZPATRICK	Date	JANUARY 1986	A. EDWARDS.

022



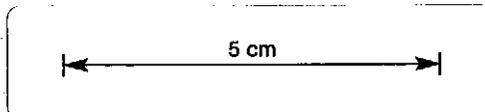
TASMANIA

Scale 1:2 000 000



AMG REFERENCE POINTS ADDED

946024

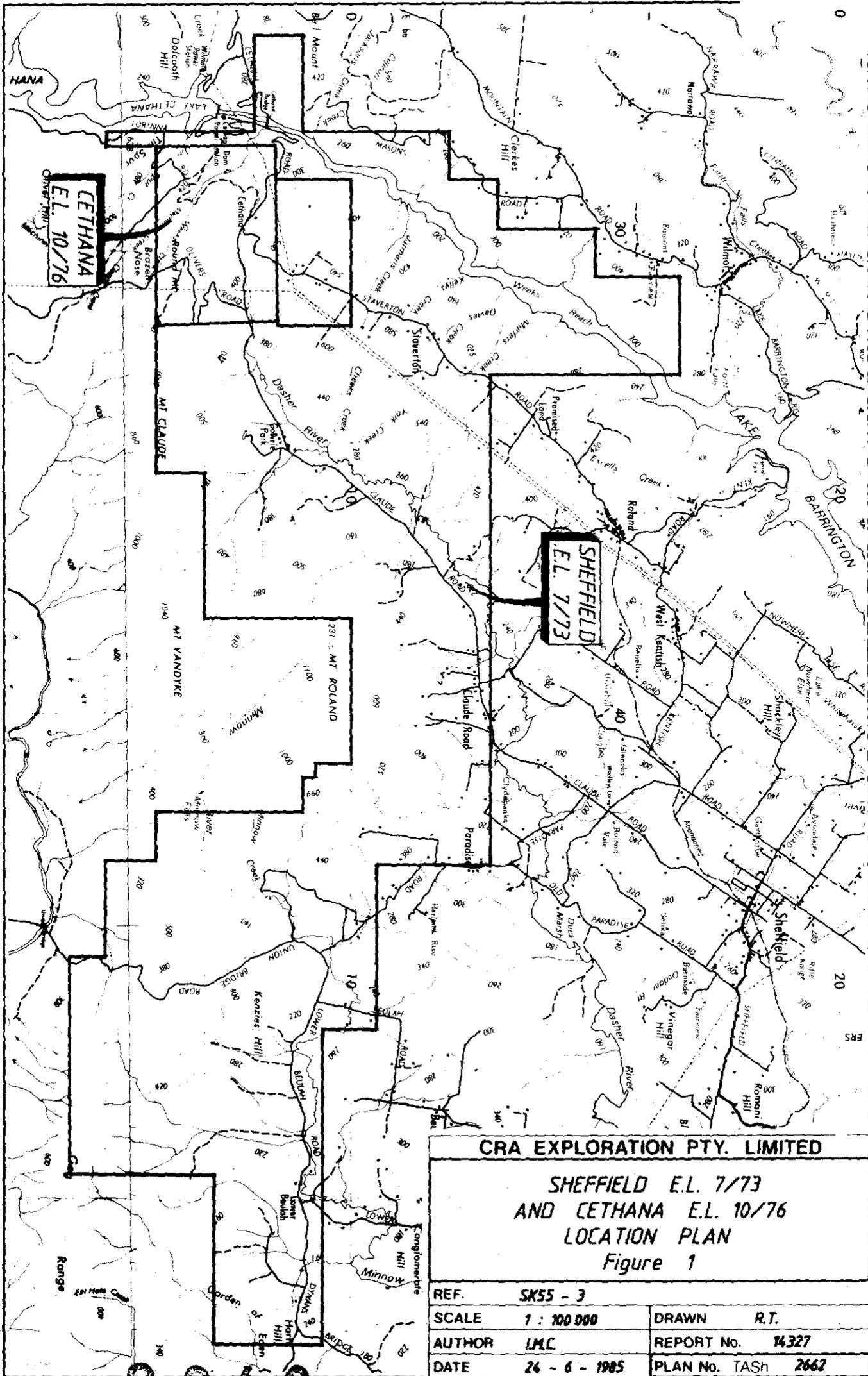


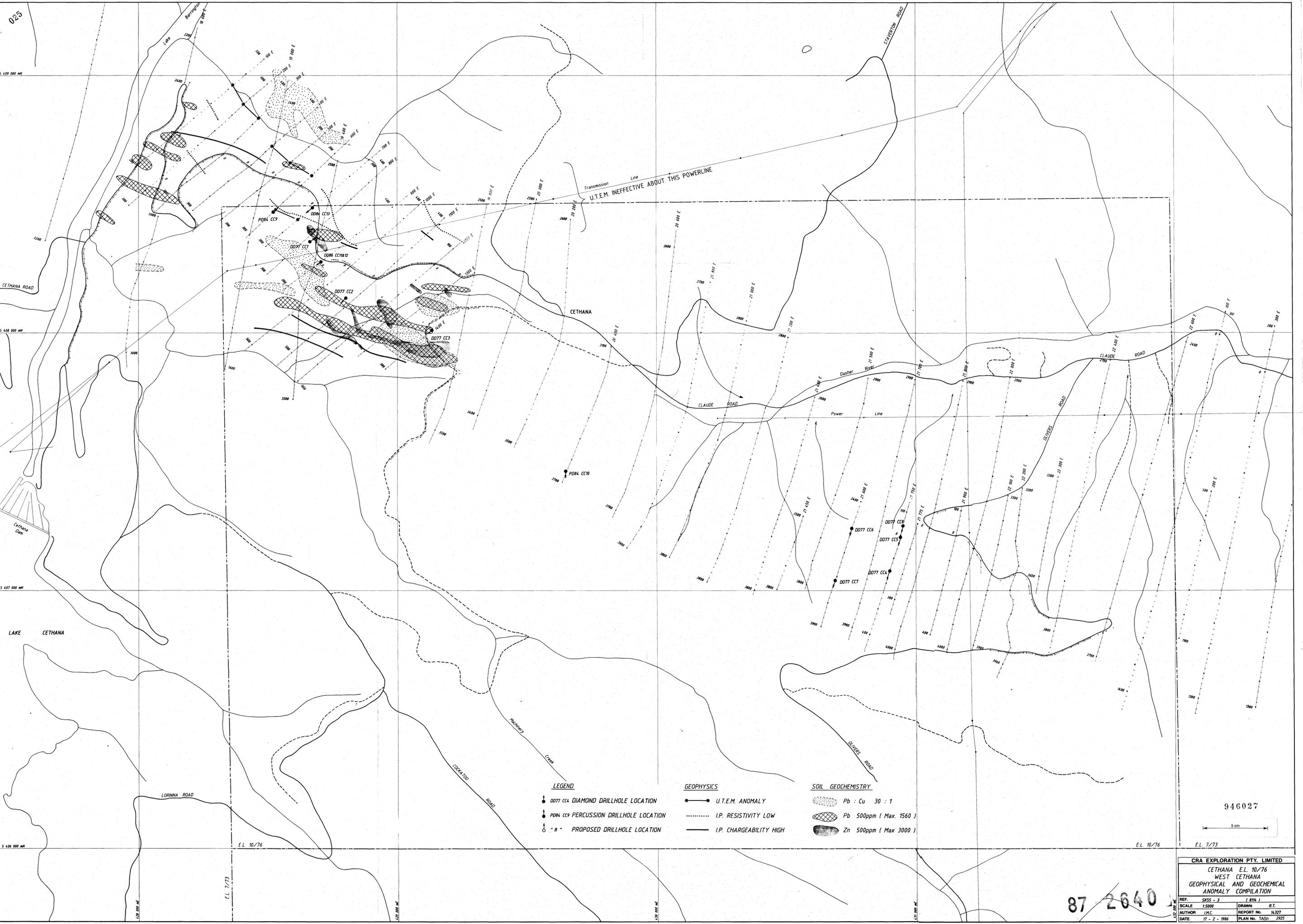
CRA EXPLORATION PTY. LIMITED	
CETHANA E.L. 10/76	
E.L. LOCATION PLAN	
REP.	SSS - 3 (80%)
SCALE	1 : 2 000 000
AUTHOR	T.v.S.
DATE	6 - 2 - 1986
DRAWN	R.T.
REPORT No.	K327
PLAN No.	TASH 296

87 - 2640

023

946025





LEGEND

- DD77 CC4 DIAMOND DRILLHOLE LOCATION
- PD84 CC9 PERCUSSION DRILLHOLE LOCATION
- " B " PROPOSED DRILLHOLE LOCATION

GEOPHYSICS

- ★ U.T.E.M. ANOMALY
- I.P. RESISTIVITY LOW
- I.P. CHARGEABILITY HIGH

SOIL GEOCHEMISTRY

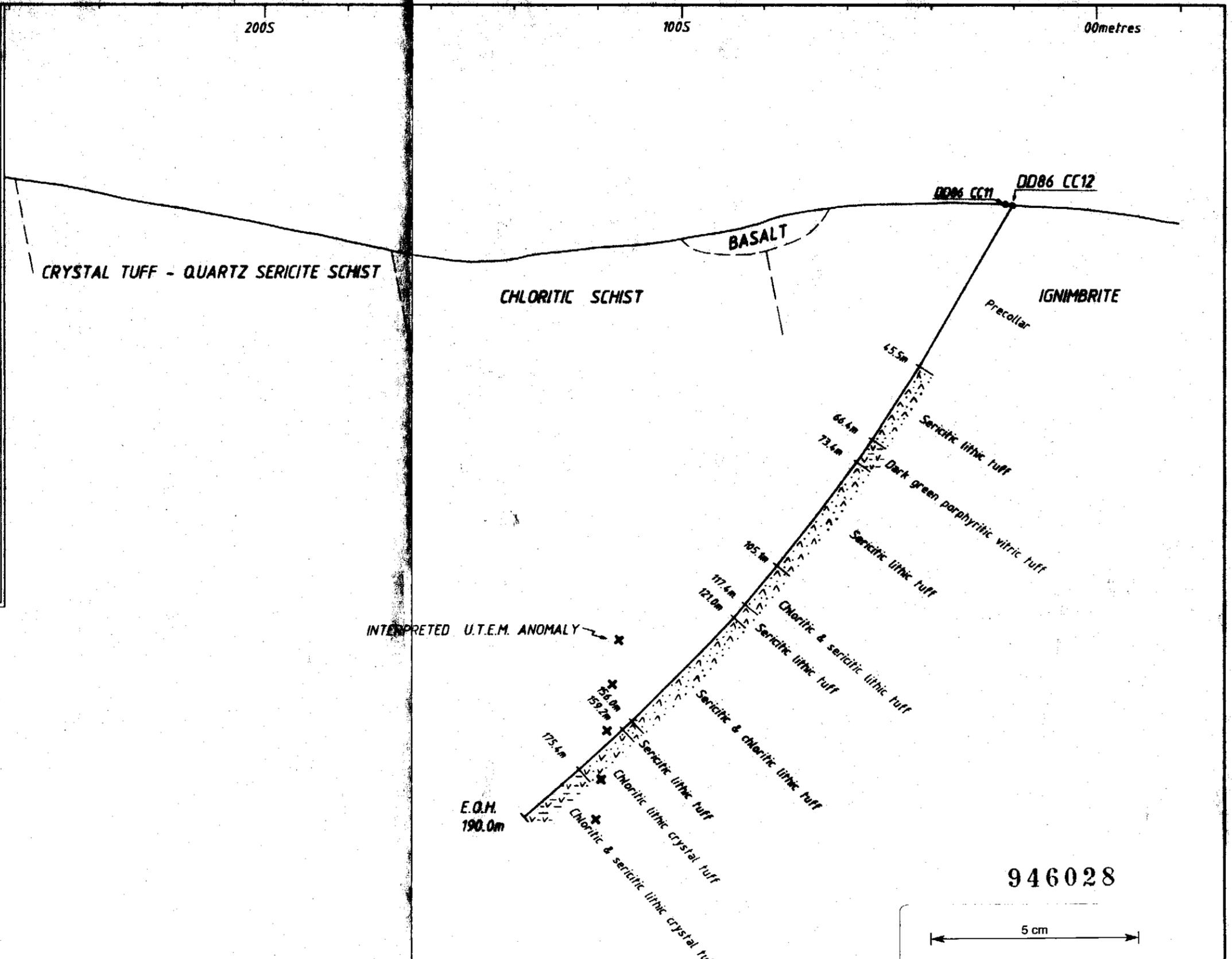
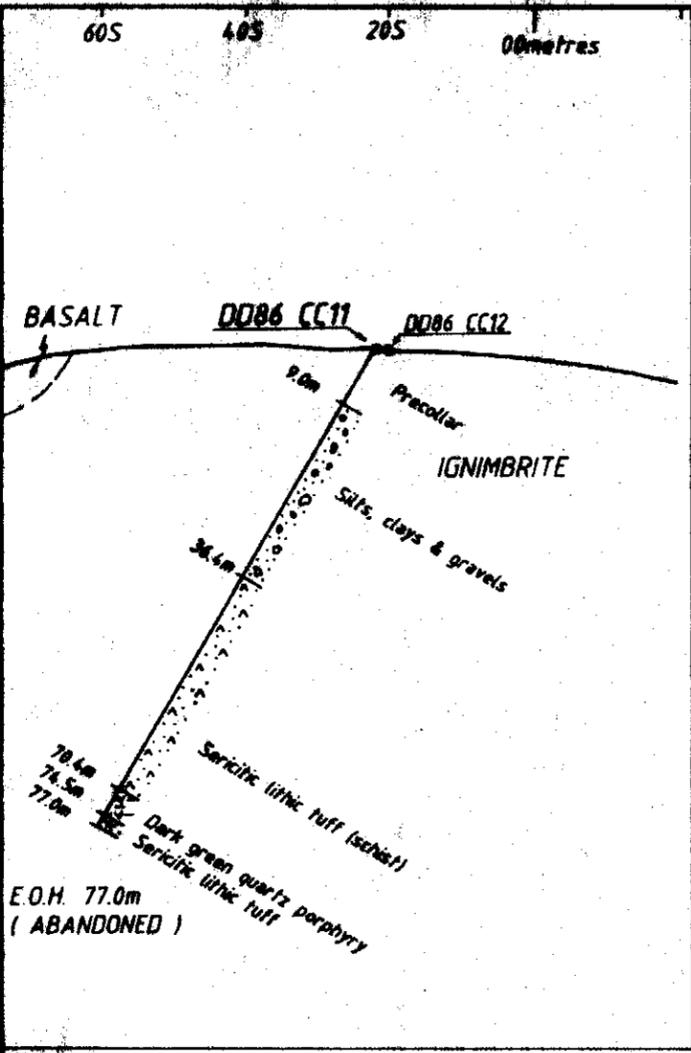
- ▨ Pb : Cu 30 : 1
- ▩ Pb 500ppm (Max. 1560)
- Zn 500ppm (Max 3000)

946027

5 cm

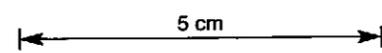
CRA EXPLORATION PTY. LIMITED			
CETHANA E.L. 10/76			
WEST CETHANA			
GEOPHYSICAL AND GEOCHEMICAL			
ANOMALY COMPIATION			
REF.	SFS5 - 3	(81%)	
SCALE	1:5000	DRAWN	R.T.
AUTHOR	J.M.C.	REPORT NO.	14327
DATE	17 - 2 - 1986	PLAN NO.	TASH 2925

87 2640



	<u>DD86 CC11</u>	<u>DD86 CC12</u>
Collar Co-ords.	: 700E : 020S	: 700E : 021S
A.M.G.	: 428 670mE : 5 408 460mN	: 428 670mE : 5 408 460mN
Azimuth	: 232° A.M.G.	: 232° A.M.G.
Dip	: -55°	: -55°
Total Depth	: 77.0 metres	: 190.0 metres

946028



CRA EXPLORATION PTY. LIMITED	
CETHANA E.L. 10/76 SECTION LINE 700E LOOKING WEST DRILL HOLE DD86 CC11 / CC12	
REF. SK55 - 3	(0115)
SCALE 1 : 1000	DRAWN R.T.
AUTHOR S.J.C.	REPORT No. 14327
DATE Aug. 1986	PLAN No. TASH 3006

87 - 2640

027

200S

100S

00m

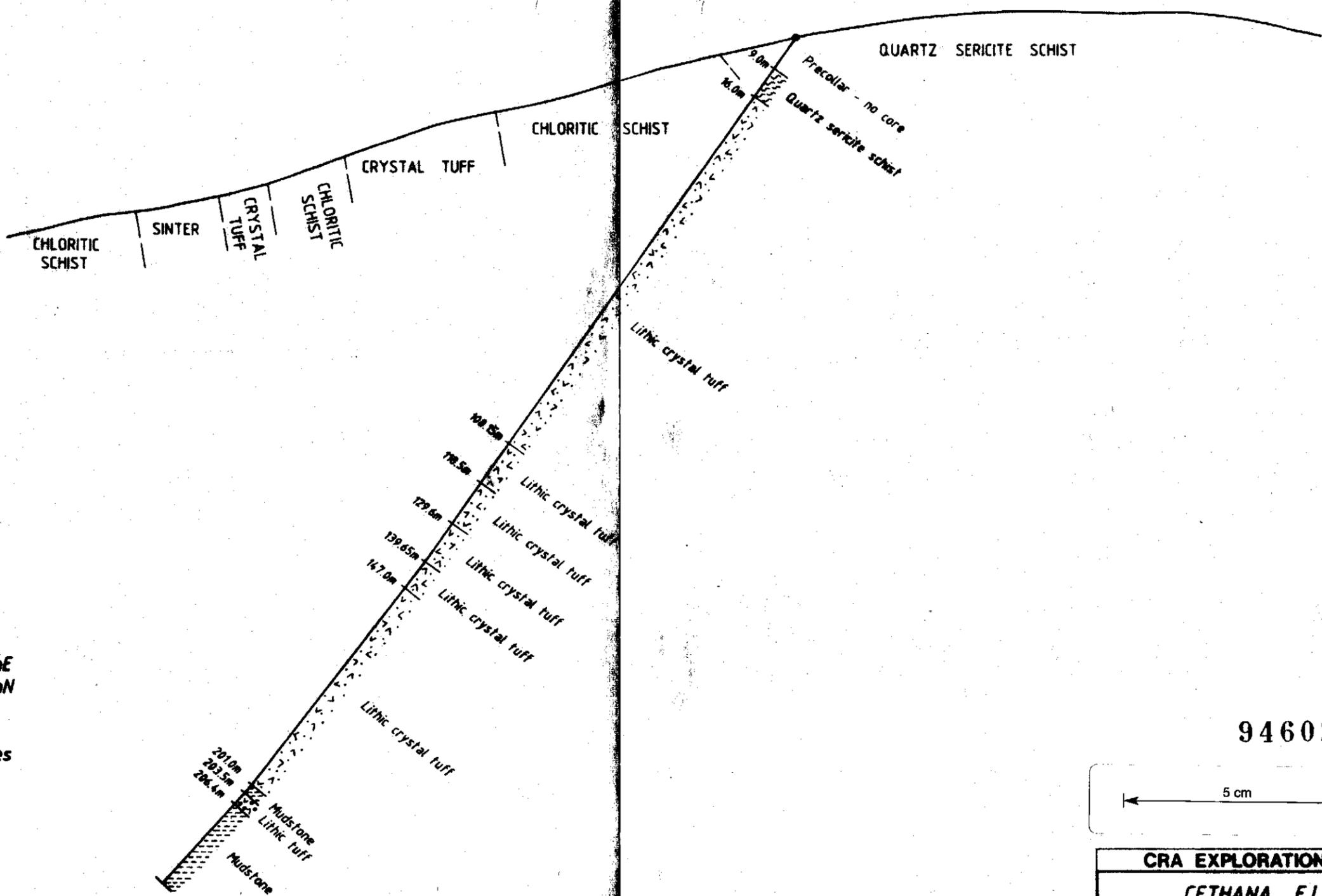
100N

Pb : Cu (soils) >30:1

Pb > 500ppm

DD86 CC13

QUARTZ SERICITE SCHIST



Collar co-ords : 900E
 : 00N
 A.M.G. : 420 700mE
 : 5 400 275mN
 Azimuth : 232°
 Dip : -60°
 Total Depth : 229.5 metres

946029

5 cm

CRA EXPLORATION PTY. LIMITED	
CETHANA E.L. 10/76	
SECTION LINE 900E	
LOOKING WEST	
DRILL HOLE DD86 CC13	
REF.	SRS - 3 (875)
SCALE	1 : 1000
AUTHOR	S.J.C.
DATE	Apr. 1986
DRAWN	R.T.
REPORT No.	14327
PLAN No.	TASH 3007

87-2640