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INITIAL EXPLORATION AT THE OLD ROYAL GEORGE TIN MINE,

EL 7/78, N.E. TASMANIA.

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DEPARTMENT OF MINES, TASMANIA.  
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1 SUMMARY.

The old Royal George tin mine near Avoca in N.E. Tasmania has been evaluated in detail.

Reserves based on 18 drillholes and limited underground development are calculated at 590,000 tonnes grading 0.41% Sn, 0.21% Zn and 12 gm/t Ag (previously 159,000 tonnes at 0.61% Sn).

It is considered that re-drilling of the known reserves using larger diameter core and improved sampling methods would give up to 25% improvement in tonnage and grade - i.e.: a maximum of 750,000 tonnes at 0.5% Sn.

A deep drillhole put down by CRAE beneath the mine showed that tin values decline abruptly at depth, severely limiting the additional tonnage which could potentially be available. However, drilling of the upper lateral margins of the deposit offers scope for a modest increase in the reserves.

The maximum potential size for the Royal George deposit as a whole is estimated at around one million tonnes of 0.5% Sn.

The Royal George mine lies on a very pronounced N.W. trending structure. Potential exists for further tin deposits along this structure and elsewhere within EL 7/78. It is recommended that this potential be examined to try and locate more tin deposits of at least the size and grade of Royal George. Further drilling of the Royal George deposit itself is not recommended at this stage.

2 CONCLUSIONS

1. The Royal George tin deposit has a maximum potential size of one million tonnes at a grade of 0.5% Sn, 0.25% Zn and 12-15 gm/t Ag.
2. The deposit is not a viable economic proposition for CRA at this tonnage and grade, and additional reserves need to be discovered.
3. Nearby tin and tin-tungsten occurrences within EL 7/78, including at least one on the Royal George structure along strike from the mine, need to be examined to determine if they have the potential to provide the additional reserves required.

3 RECOMMENDATIONS.

1. Tin and tin-tungsten occurrences within EL 7/78, particularly the St. Pauls, Roys Hill and Brookstead prospects, should be examined in detail. Additional exploration, including drilling, is to be directed at those prospects considered to have potential for deposits of at least the size and grade of Royal George.
2. The extensions of the NW-SE trending Royal George structure should be carefully explored.
3. No further work on the Royal George deposit itself is considered warranted at this stage.

4 INTRODUCTION

The old Royal George tin mine is situated 17 kilometres by road east of Avoca in N.E. Tasmania.

The deposit comprises a steeply dipping, altered sulphidic zone within granite. The mine was worked on two levels during the period 1911-1922, producing approximately 170,000 tonnes of ore grading 0.65% Sn.

In 1955 uranium was first discovered in Tasmania when Torbenite was identified in the old Royal George workings. This discovery prompted the drilling of one hole by A Ringwood in 1955 and three holes by BHP in 1957. The holes intersected the tin zone below the old workings, but uranium values were generally low and no further work was undertaken.

In 1965 the Cornwall Coal Company pegged several Mineral Leases (21 year tenure), over the deposit and commenced an exploration programme which continued until 1971.

Cornwall Coal drilled 13 holes, deepened the inclined shaft, drove two new levels (No. 3 and No. 4) and carried out channel sampling across the mineralised zone. Some metallurgical testing was done and the tin content of the old tailings dam assessed. Some exploration was also undertaken on other tin occurrences in the Royal George area.

The small diameter drilling (Ex) done by Cornwall Coal led to recovery and sampling problems which lessened the effectiveness of the exploration programme.

The Tasmanian Mines Department, which provided geological assistance to Cornwall Coal, in 1970 estimated the reserves at Royal George at 159,000 tonnes of 0.61% Sn.

CRAE first became interested in the tin potential of the Royal George deposit late in 1977, and an initial field evaluation was carried out by P. English in February, 1978. As a result CRAE entered into a Joint Venture with the Cornwall Coal Co. on the Royal George M.L.'s and surrounding E.L. 7/78, in February, 1979.

This report details the results of an extensive evaluation of the Royal George deposit carried out from July to October, 1979. The work comprised resampling and reassaying of all old drill core and sample pulps; checking and correcting of old data; compilation of new data including a three-dimensional model; a ground spectrometer survey; and the drilling of one hole to test the tin zone at depth. Treatment testing is currently being carried out on bulk ore samples.

## 5 GEOLOGY

The Royal George deposit is hosted by extremely coarse grained granite, with porphyritic feldspar and biotite within a groundmass of quartz, feldspar and biotite. Tourmaline is a minor but ubiquitous accessory. The granite is weakly to moderately pervasively altered, with minor amounts of sericite and clay.

An extremely hard fine grained granite is also present in the mine area but shows no particular relationship to the mineralisation, which occurs in both types of granite. The granites are assigned an Upper Devonian age.

Tin mineralisation occurs within a zone striking NW-SE and dipping  $75^{\circ}$  to the SW. The zone reflects a regionally significant structure clearly visible on aerial photos. This structure is not a fault or shear zone in the strict sense, as there is only slight fracturing and shearing associated with it. At Royal George veining of any sort is almost totally absent.

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The mineralised zone is made up of parallel bands and diffuse patches of strong alteration, comprising quartz - sericite - muscovite, with minor fluorite - tourmaline - chlorite. Sometimes the bands are abundant and form a more-or-less continuous wide zone of mineralisation (as in hole CCC9); more commonly the bands are irregularly concentrated to form two or more main zones of mineralisation with ill defined margins.

From 5-20% disseminated pyrite, sphalerite, arsenopyrite and chalcopyrite occur in the strongly altered bands, and sulphides average 3% within the host granite for 30m either side of the main mineralisation.

Cassiterite is very fine grained and rarely visible.

## 6 DISCUSSION OF RESULTS

Results of the exploration programme are shown on the plans and appendices at the back of this report.

Reassaying by Amdel and A.L.S. gave tin values 10-50% higher than the original Mines Department assays. The rise was most marked in the underground samples. In most cases, the original Mines Department pulp was used for the re-assay.

Additional comprehensive assaying was undertaken for Pb, Zn, Cu, Ag, Au, W, U, Bi, Ta and F. Of these elements, only Ag, Zn and Cu appear to have any significance. Results of a 70 element spectrographic analysis have not yet been received.

Uranium values ranged up to 1300 ppm with the highest values usually occurring on the periphery of the strong tin mineralisation. But the general tenor is low - the average uranium content of the calculated reserves is only 33 ppm.

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A 1200 kg bulk sample of ore from 4 level has been sent for treatment tests. Results are not yet available.

Factors used in the ore reserve calculations are shown on the Longitudinal Plan. The reserves have been calculated for below 2 level only, because the tonnage available above 2 level is negligible and the ground conditions may preclude mining.

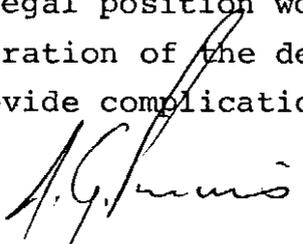
In most of the drillholes, two zones of significant tin mineralisation were intersected, usually with one zone achieving economic grade over a true width of 3 metres or more. The low grade mineralisation between these zones is interspersed with patches of higher grade material. In hole CCC9 the two mineralised zones coalesced to form a single mineralised zone 17 metres wide.

If larger size core drilling upgraded the tin values by achieving better recoveries, some of the separate mineralised zones may also coalesce as in CCC9. It is mainly on this basis that re-drilling of the deposit is considered to give the possibility of up to 25% improvement in tonnage and grade.

Auger testing carried out by Cornwall Coal on the old mine tailings determined the tonnage and grade of these as 170,000 tonnes at 0.25% Sn.

A mineral ownership problem exists at Royal George and on most of the surrounding E.L. 7/78. The landowners' titles are mineral freehold which is not recognised by the Mining Act.

This situation affects the NW end of the Royal George deposit as part of the calculated reserves lie on the property of A. Gee (see Longitudinal and Surface Plans). The Cornwall Coal Company has no formal agreement with Gee and the legal position would require clarification before further exploration of the deposit could proceed. The land situation may provide complications for exploration generally on E.L. 7/78.

  
J.G. Purvis

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KEYWORDS

Tin - uranium - silver - granite - alteration - ore reserve  
calcs.

LOCATION

Oatlands 1:250 000 Sheet SK 55-6 Tasmania.

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APPENDIX I

DRILL LOG - RGC 1.







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

TENEMENT NAME ROYAL GEORGE No. 015  
PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. RGC 1  
RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 25821-25

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 <u>Amdel + ALS</u> )							
From (M)	To (M)										PPM							
												Sn	U	W	Zn	Cu	Ag	Pb
					204.2 - 204.6: Diffuse chloritic 'greisen' band centered on 50mm d)		795128 <sup>+</sup>	185	188	3		220	16	20	580	30	1	20
					solid sp 40% LCA at 204.4. 5% py-sp.		129 <sup>+</sup>	188	191	3		130	36	20	260	35	1	15
					210.2: 100mm fracture zone 40% LCA		130 <sup>+</sup>	191	194	3		475	32	30	1300	55	1	25
					qtz + py.		131 <sup>+</sup>	194	197	3		110	20	10	180	40	1	15
					211.6: 50mm 'greisen' band 45% LCA		132 <sup>+</sup>	197	200	3		405	24	20	250	30	1	20
					7% py > sp > cp - gn.		795087	200	201	1		320	22		690	40	1	
					212.05: 80mm 'greisen' band 50% LCA		88	201	202	1		200	16		770	55	2	
					7% py > sp > cp - arseno - gn.		89	202	203	1		440	14		2300	75	2	
					212.45: 80mm 'greisen' band 40% LCA		90	203	204	1		210	22		210	42	1	
					7% py > arseno - sp > cp.		91	204	205	1		290	20		2.8%	990	60	
					212.65: 60mm 'greisen' band 45% LCA		92	205	206	1		240	24		310	42	1	
					10% sp > py > cp.		93	206	207	1		260	22		170	35	1	
					213.25: 50mm 'Greisen' band 35% LCA		94	207	208	1		320	22		220	60	1	
					7-10% py > arseno - sp > cp.		95	208	209	1		280	22		140	40	<1	
					214.7: 50mm 'Greisen' band 35% LCA		96	209	210	1		280	24		90	42	<1	
					10% py > sp > cp.		97	210	211	1		280	28		150	42	1	
					215.3: 50mm 'greisen' band 40% LCA		98	211	212	1		350	26		500	55	1	
					5-7% py > arseno > sp.		99	212	213	1		820	24		1000	85	3	
					216: 80mm 'greisen' band 40% LCA		100	213	214	1		270	26		450	65	2	
					7% py > arseno > sp - cp.		101	214	215	1		280	24		290	48	1	
					217.5: 5mm qtz vein c arseno. 40% LCA		102	215	216	1		420	24		490	100	3	
					c 40mm 'greisen' selvage - 10% py > arseno.		103	216	217	1		370	28		390	70	2	
							104	217	218	1		230	26		230	65	<1	
							105	218	219	1		230	26		400	65	<1	
19.45	229.45	10.00	NQ		MINERALISED ZONE	219.45 - 226.50: 5-20%, average	795059	219	220	1		300	30	30	590	150	3	
					Grey, hard, highly altered siliceous zone comprising qtz - muscovite - sericite	10-12%, disseminated sphides py > sp	60	220	221	1		530	26	20	840	580	8	
					with minor tourmaline, chlorite and fluorite. Remnant qtz and feldspars	- cp > arseno. Rare gn + po.	61	221	222	1		1150	26	40	980	440	9	
					show host rock is coarse grained granite, except between 224.15 - 225.15m	226.50 - 229.45: Average 8-10% py > sp > arseno > cp. Rare magnetite associated with chlorite + gn.	62	222	223	1		1050	24	35	1400	480	5	
							63	223	224	1		450	28	65	560	640	11	
							64	224	225	1		100	26	50	400	2500	80	
							65	225	226	1		120	28	30	290	2500	41	

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

TENEMENT NAME ROYAL GEORGE No. 010  
PLAN - MAP REFERENCE

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. RGC 10  
RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 25825-21

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 <u>Andal + ALS</u> )								
From (M)	To (M)										PPM								
												Sn	U	W	Zn	Cu	Ag	Pb	
					Which is fine grained granite. There are minor intercalations of coarse grained granite up to 15cm wide within the zone. Zone attitude 38°/LCA.		795066	226	227	1		750	24	55	2800	1100	15		
							67	227	228	1		540	22	20	2100	280	9		
							68	228	229	1		1000	22	20	2100	360	9		
							69	229	230	1		250	30	<10	530	290	6		
							70	230	231	1		150	28	20	170	65	<1		
							71	231	232	1		320	32	20	220	38	<1		
29.45	231.70	2.25	NQ		COARSE GRAINED PORPHYRITIC GRANITE As before. Large porphyritic euhedral feldspars up to 40mm. Altered, i minor sericite and muscovite.	3% py >> sp-cp. 229.85: 70mm 'greisen' band 40°/LCA 5% py >> sp-cp. Several 'greisen' bands < 20mm.	72	232	233	1		120	30	20	230	35	<1		
							73	233	234	1		150	26	20	85	55	<1		
							74	234	234.75	0.75		820	24		670	990	20		
							75	234.75	236	1.25		270	28		140	90	1		
							76	236	237	1		180	28		170	65	<1		
231.70	233.80	2.10	NQ		FINE GRAINED GRANITE Extremely hard, yellowish gray. Little biotite. Much tourmaline, some fluorite. Xyl lineation 45°/LCA. Altered - minor sericite and muscovite. Upper and lower hazy contacts.	3% py. Trace sp-arseno. Much in fractures 45°/LCA i tourmaline and thin 'greisen' selvages.	77	237	238.50	1.50		980	20		420	100	1		
							78	238.50	240	1.50		800	22		210	65	<1		
							79	240	241.50	1.50		640	26		150	55	<1		
							80	241.50	242.50	1		520	14		680	100	2		
							81	242.50	243.50	1		200	20		190	75	1		
							82	243.50	245	1.50		140	24		100	42	<1		
							83	245	246.50	1.50		380	22		160	45	<1		
233.80	247.95	13.90	NQ		ALTERED COARSE GRAINED GRANITE As before. Hard + siliceous. Altered, with sericitic feldspars and much patchy qtz-sericite-muscovite 'greisen' esp near fractures. Biotite, tourmaline, fluorite, chlorite common accessories. Basal contact 80°/LCA.	Numerous 'greisen' bands < 50mm, decreasing below 243.50m. 233.8-243.5: 3-5% py > sp. Trace cp-arseno. Trace cassiterite? below 238m. 243.5-247.95: 2% py > sp > cp-arseno 234.3-234.65: 'Greisen' band 55°/LCA. 7% py > sp-arseno > cp 234.8-234.95: Fault 60°/LCA (10cm core lost + water return lost). Brecciated qtz + feldspar in matrix of massive py, sericite + fluorite. Shearing extends to 236.50. Rock soft, clayey + sericitic. Badly broken.	84	246.50	247.75	1.25		240	30		110	35	<1		
							85	247.75	249	1.25		150	32		130	50	<1		
							86	249	250	1		150	38		48	32	<1		
							795133 <sup>+</sup>	250	253	3		190	24	<10	130	35	1	20	
							134 <sup>+</sup>	253	256	3		130	28	10	240	65	1	20	
							135 <sup>+</sup>	256	259	3		155	32	20	190	50	<1	15	
							136 <sup>+</sup>	259	262	3		175	24	<10	270	90	1	15	
							137 <sup>+</sup>	262	263.25	1.25		115	16	20	90	50	1	10	
							138	263.25	264.70	1.45		1300	24	<10	420	35	1	55	
							139	264.70	265.50	0.80		520	28	10	6800	110	3	25	
							140 <sup>+</sup>	265.50	266.40	0.90		200	40	80	600	105	1	20	

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

SHEET No. 6

TENEMENT NAME ROYAL GEORGE No. 017

PLAN - MAP REFERENCE

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. RGC1

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... 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)										PPM							
											Sn	U	W	Zn	Cu	Aq		
						236-236.50 (0.15m core left). Some 'greisen' in patches + along fractures.	Best intersections:	221	223	2	1100	25	37	1190	460	7		
						241.95-242.25: 'Greisen' band, c̄		224	226	2	110	27	40	345	2500	60		
						5-7% py > sp > cp.		Hole survey - using Eastman camera:										
						242.90-243.20: Diffuse 'greisen' bands + sulphidic fractures. 40/LCA. 5-7% py > sp		54.50m - dip 59° 45' azimuth 045° 30'										
						243.45: 50mm 'greisen' band 45°/LCA.		99m - dip 60° 20' azimuth 046° 30'										
						7% py > sp > arseno.		150m - dip 60° 20' azimuth 047° 15'										
247.95	253.75	5.80	NQ		FINE GRAINED GRANITE	1-2% py. Trace sp-cp.					201.5m							
						Grey. Extremely hard. Most qtz + feldspar 2mm or less. Biotite + tourmaline. Xyl breccia 50°/LCA. Minor sericitisation of feldspars and v. minor muscovite.	Except 252.2-252.75m: 3-5% py > sp-cp - mostly in fractures 45°/LCA.					250.5m						
						Minor intercalation of coarser grained granite at top and bottom of interval.	252.7: 13mm pyritic shear zone 50°/LCA.											
						Basal contact 60°/LCA.												
53.75	266.40	12.65	NQ		COARSE GRAINED GRANITE	1-2% py. Trace cp-sp. Decreasing with depth.												
						As before.	254.6-255.75: Major fault zone - rock brecciated, fractured + slickensided - main angles 50° + 85°/LCA. Numerous pyritic veinlets c̄ fluorite. Overall 5% py.											
						Grey hard. Qtz - feldspar - biotite with minor tourmaline + fluorite.	261.15-261.3: 100mm 'greisen' band 50°/LCA. 3% py > cp-sp > arseno.											
						Weak-moderately altered as usual - sericite, muscovite and trace chlorite (mainly assoc with musc below 260.5).	263.8: 50mm 'greisen' band 40°/LCA.											
							5-7% arseno > py > sp - cassiterite?											
							264.7-265.15: 'Greisen' 45°/LCA. 5% sp > py.											
							265.35: 80mm 'greisen' 55°/LCA. 5-7% sp > py.											

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## APPENDIX II

## DRILLCORE SAMPLING RESULTS

CORNWALL COAL CO. HOLES CCC 1 - CCC 13

BHP HOLES 1 - 3

RINGWOOD HOLE BG - 80.







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

SHEET No. 1

TENEMENT NAME ROYAL GEORGE No. 022

PLAN - MAP REFERENCE.....

CO-ORDINATES 35°N 208°W AZIMUTH 045° MAG..... DRILLERS CORNWALL COAL COMMENCED 6.6.66 DEPTH..... 125' HOLE No. CCC 4

RL COLLAR..... 966' INCLINATION..... 60° DRILL TYPE..... COMPLETED..... 27.6.66 CASING LEFT..... DPO No(s) 25807, 10, 16

DEPTH		APPROX CORE REMAINING AT CRANE SAMPLING	TAS MINES DEPT		Sample No.	From ft	To ft	Rec ft	ASSAY VALUES (Analysed by AMDEL & ALS)							
From ft	To ft		SAMPLE NO	ASSAY - Sn					Sn	U	W	Pb	Zn	Cu	Ag	
0	31	3			716999	0	31	4'6"	200	75	30	10	450	40	<1	
					664473	31	36	1'3"	1700	620	20	100	4300	90	1	
36	45	2			717000	36	45	2'6"	560	55	10	20	1100	40	<1	
					664474	45	50	2'	1600	220	<10	110	3900	690	9	
					662743	45	50	Sludge	2150	180	180	65	3900	550	5	
					average - used in calculations:		45	50		1930	195			3900	605	7
50	60	3			717474	50	60	2'7"	540	55	<10	30	1200	50	<1	
					662744	50	55	Sludge	6600	65	180	190	3600	400	10	
					average - used in calculations:		50	60		2810	60			2100	180	4
60	70	2'6"			717475	60	70	1'3"	320	40	30	20	930	30	<1	
70	79'6"	6			76	70	79'6"	7'	420	80	10	20	1100	30	<1	
					664475	79'6"	81'6"	11"	3050	85	30	130	2400	730	9	
81'6"	92	4			717477	81'6"	92	4'6"	1500	40	25	60	990	75	1	
92	100	6			78	92	100	6'6"	360	36	25	35	820	40	1	
100	110	8			717815	100	110	9'9"	1070	24			780	50	1	
110	125	8			16	110	125	9'	500	28			460	70	1	
								EOH								
					Best Intersections:		45	60	15'	2515	105			2700	320	5
						79'6"	92	12'6"	1750	45			1215	180	2	

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

TENEMENT NAME ROYAL GEORGE No. 03

PLAN - MAP REFERENCE 03

CO-ORDINATES 830'S 556'E AZIMUTH 042.5° MAG DRILLERS CORNWALL COAL COMMENCED 6.7.66 DEPTH 268' HOLE No. CCC 5

RL COLLAR 1016' INCLINATION 61° DRILL TYPE COMPLETED 31.8.66 CASING LEFT DPO No(s) 25808, 07, 10, 15

DEPTH		APPROX CORE REMAINING AT CRAE SAMPLING		TAS MINES DEPT		Sample No.	From Ft	To Ft	Rec Ft	ASSAY VALUES (Analysed by AMDEL + ALS)							
From Ft	To Ft			SAMPLE NO	ASSAY-Sn					Sn	U	W	Pb	Zn	Cu	Ag	
0	83	10				717480 <sup>+</sup>	0	83	19'3"	70	26	180	130	390	140	2	
83	94	8				81 <sup>+</sup>	83	94	8'6"	60	24	160	10	280	180	<1	
94	113	8				82 <sup>+</sup>	94	113	14	75	28	120	10	290	85	1	
113	123	7				83 <sup>+</sup>	113	123	9'6"	330	30	110	15	520	110	1	
123	140	6				84 <sup>+</sup>	123	140	10'6"	85	28	170	25	460	95	1	
					663543	Trace	717813	140	146'9"	3'3"	750	100		220	1100	230	4
146'9"	184'6"	15				717485 <sup>+</sup>	146'9"	184'6"	32'3"	700	40	110	60	940	190	3	
84'6"	200'8"	7				86	184'6"	200'8"	16'2"	290	26	15	20	450	15	1	
					663544	0.17%	717917	200'8"	201'11"	1'3"	2150	110	10	1200	1900	210	21
					45	Nil	18	201'11"	211'6"	9'7"	200	34	<10	30	390	28	<1
					46	Trace	19	211'6"	212'8"	1'2"	620	32	15	70	480	320	3
					47	Nil	20	212'8"	218	5'4"	190	34	20	20	380	32	<1
					48	0.16%	21	218	219	1'	2150	36	10	40	400	290	4
					49	Nil	22	219	220'3"	1'3"	120	90	15	30	370	35	<1
					50	0.37%	23	220'3"	220'8"	5"	3900	32	10	35	150	380	2
20'8"	229	5				717487	220'8"	229	5'4"	230	32	15	20	390	65	<1	
					663552	0.37%	717814	229	233'6"	4'6"	1500	24		450	270	290	3
33'6"	240'6"	5				717488	233'6"	240'6"	7'	3900	20	20	30	280	25	<1	
240'6"	256'2"	5				89	240'6"	256'2"	14'11"	270	24	20	30	350	20	<1	
					663553	Nil	717924	256'2"	256'4"	2"	300	26	10	130	290	95	<1
					54	0.05%	25	256'4"	257	8"	880	32	<10	380	1700	80	20
					55	0.07%	26	257	257'10"	10"	1100	28	15	150	5300	140	5
					56	0.05%	27	257'10"	259'5"	1'7"	800	44	30	110	2500	95	1
					57	Nil	28	259'5"	260	7"	140	28	20	40	620	42	<1
					58	0.05%	29	260	261'6"	1'6"	920	38	15	110	2600	230	3
					59	Trace	30	261'6"	261'11"	5"	420	32	15	60	1500	90	<1
					60	0.09%	31	261'11"	262'8"	9"	1450	36	20	55	3500	120	<1
					61	Trace	32	262'8"	263'4"	8"	620	20	10	60	1600	48	<1
					62	Nil	33	263'4"	265	1'8"	160	34	10	30	610	32	<1
					63	0.10%	34	265	265'3"	3"	1400	24	20	55	1400	45	<1
					64	Nil	35	265'3"	266'8"	1'5"	190	34	10	35	1000	42	<1

+ - Sampled with core grinder.

124024

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

SHEET No. 2  
 024

TENEMENT NAME ROYAL GEORGE No. 024  
 PLAN - MAP REFERENCE

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. CCC 5  
 RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 25810

DEPTH		APPROX CORE REMAINING AT CRAE SAMPLING	TAS MINES DEPT		Sample No.	From Ft	To Ft	Rec Ft	ASSAY VALUES (Analysed by AMDEL)						
From Ft	To Ft		SAMPLE NO	ASSAY - Sn					Sn	U	W	Pb	Zn	Cu	Ag
			663565	Nil	717936	266' 8"	266' 11"	3"	300	34	10	50	890	50	<1
						266' 11"	268	1' 1"							
							EOH								
				Best intersection:		229	240' 6"	11' 6"	2960	22			275	130	1

124025

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

SHEET No. 0

TENEMENT NAME ROYAL GEORGE No. 25

PLAN - MAP REFERENCE

CO-ORDINATES 367'E 720'S AZIMUTH 036° MAG DRILLERS CORNSALL COAL COMMENCED 2.9.66 DEPTH 310' HOLE No. CCC 6

RL COLLAR 1022' INCLINATION 60.5° DRILL TYPE COMPLETED 12.12.66 CASING LEFT DPO No(s) 25815, 10, 13, 14

DEPTH		APPROX CORE REMAINING AT CRME SAMPLING		TAS MINES DEPT		Sample No.	From Ft	To Ft	Rec Ft	ASSAY VALUES (Analysed by MODEL ALS) PPM							
From Ft	To Ft			SAMPLE NO	ASSAY-Sn					Sn	U	W	Pb	Zn	Cu	Ag	
166	186'6"	10				716402	0	166		NOT SAMPLED							
186'6"	195	9				03	166	186'6"	11'9"	175	32	140	20	330	230	1	
195	200'7"	7				04	186'6"	195	8'	340	20	20	40	560	40	<1	
201'3"	202'4"		195	200'7"	6'9"		415	28	20	20	460	35	<1				
					670286		201'3"	202'4"	11"	2200*							
							200'7"	201'3"									
							202'4"	202'7"									
202'7"	210	7				716405	202'7"	210	6'5"	325	16	20	30	270	30	<1	
210	223'6"	9				06	210	223'6"	8'3"	305	32	20	25	390	60	1	
223'9"	228		223'9"	228													
							223'6"	223'9"									
							231'6"	231'9"									
					670287		240'5"	240'10"	1'7"	2800*							
							243	243'4"									
							245'1"	245'5"									
228	231'6"	9				716407	228	231'6"	7'9"	275	24	30	20	390	80	<1	
231'9"	236		231'9"	236													
236	240'5"	10				716408	236	240'5"	8'11"	325	16	20	20	440	75	<1	
240'10"	243		240'10"	243													
243'4"	245'1"		243'4"	245'1"													
245'5"	246	9				716409	245'5"	246									
246	256		246	256	9'		100	16	20	10	145	15	<1				
256	256'5"	10				716410	256	256'5"									
256'10"	260'3"		256'10"	260'3"													
260'9"	263		260'9"	263	10'3"		400	16	20	75	1100	70	2				
266'2"	267'9"	9				717810	266'2"	267'9"									
268'5"	271		268'5"	271													
					* Mines Dept assay. Original		256'5"	256'10"	11"	1250	24		170	1400	550	17	
					sample pulps lost and all core taken in initial sampling.	670288	260'3"	260'9"									
						670289	263	266'2"	3'2"	1600	24	<10	1600	27%	1500	85	

\* Mines Dept assay. Original  
sample pulps lost and all core taken in initial sampling.

+ - Taken with core grinder

124026



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

TENEMENT NAME ROYAL GEORGE SHEET No. 1  
PLAN - MAP REFERENCE No. 027

CO-ORDINATES 588'S, 223'E AZIMUTH 049° MAG DRILLERS CORNWALL COAL COMMENCED 23.9.66 DEPTH 359'6" HOLE No. CCC 7  
RL COLLAR 1030' INCLINATION 60° DRILL TYPE ..... COMPLETED 22.11.66 CASING LEFT ..... DPO No(s) 25808, 09, 10, 11,

DEPTH		APPROX CORE REMAINING AT CRAE SAMPLING		TAS MINES DEPT	SAMPLE NO	ASSAY-Sn	Sample No.	From Ft	To Ft	Rec Ft	ASSAY VALUES (Analysed by <u>ANAL. A.S.</u> )							
From Ft	To Ft										Sn	U	W	Pb	Zn	Cu	Ag	
0	21	11					717863 <sup>+</sup>	0	21	13'	24	40	110	15	110	65	1	
21	33	10					64 <sup>+</sup>	21	33	10'3"	36	32	180	10	140	120	1	
33	49	12					65 <sup>+</sup>	33	49	13'	24	40	150	5	130	100	1	
49	66	12					66 <sup>+</sup>	49	66	14'6"	26	38	170	10	140	170	1	
66	85	14					67 <sup>+</sup>	66	85	17'6"	28	26	100	10	160	220	1	
85	113	15					68 <sup>+</sup>	85	113	19'3"	60	26	130	45	160	330	1	
113	127	12					717805 <sup>+</sup>	113	127	12'6"	20	4	170	15	180	140	<1	
127	144	13					717870 <sup>+</sup>	127	144	13'6"	65	44	90	20	210	110	<1	
144	160	13					71 <sup>+</sup>	144	160	16'	50	16	80	10	290	175	<1	
160	170	10					72 <sup>+</sup>	160	170	10'	45	32	90	10	390	105	1	
170	188	9					73 <sup>+</sup>	170	188	18'	90	32	90	10	270	75	<1	
188	197	12					74 <sup>+</sup>	188	197	6'9"	65	100	110	10	580	220	<1	
197	218	15					75 <sup>+</sup>	197	218	18'	45	24	120	10	210	230	<1	
218	236	15					76 <sup>+</sup>	218	236	18'	190	38	110	80	470	200	2	
236	250	13					77 <sup>+</sup>	236	250	14'	80	44	100	20	175	240	1	
250	255	5					78	250	255	5'	28	40	20	10	130	10	<1	
255	260	5					79	255	260	5'	40	44	25	10	240	30	<1	
260	271'8"	6				664476	0.14%	717940	260	266'4"	3'6"	1600	38	25	110	420	55	<1
271'8"	272'5"					664477	0.18%	717880	266'4"	271'8"	5'4"	340	38	10	20	360	35	<1
272'5"	278'10"	6				664478	0.17%	717941	271'8"	272'5"	9"	2100	48	40	230	2300	1900	38
278'10"	280'1"	3				664479	0.20%	717881	272'5"	278'10"	6'5"	390	24	15	20	530	50	1
280'1"	282'6"					664481	0.18%	717942	278'10"	280'1"	1'3"	1950	34	15	240	4400	660	14
282'6"	284	3						717882	280'1"	282'6"	2'5"	340	24	35	30	480	35	1
284	286'9"	3						717943	282'6"	284	1'6"	2350	34	35	730	4500	520	24
286'9"								717883	284	286'9"	2'9"	320	22	15	25	480	35	1
								664481	286'9"	291	4'3"	2150	20	25	190	2800	460	8
						82	0.48%	46	291	294	3	6100	22	20	210	5000	640	13
						83	Trace	47	294	297	3	3800	22	20	150	2100	510	9
						84	0.22%	48	297	300	3	3050	24	25	180	2000	1100	23
						85	0.41%	49	300	303	3	4600	22	35	220	4000	950	29
						86	0.31%	50	303	306	3	3650	24	20	190	8900	650	12

124028



124030

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

SHEET No. 1

TENEMENT NAME ROYAL GEORGE No. 0  
PLAN - MAP REFERENCE 2060

CO-ORDINATES 236'S, 132'W AZIMUTH 044° MAG DRILLERS CORNWALL COAL COMMENCED 14.12.66  
RL COLLAR 1036' INCLINATION 60° DRILL TYPE COMPLETED 20.3.67

DEPTH 360' HOLE No. CCC 8  
CASING LEFT 4' 8 1/2" DPC No(s) 25810, 13, 14.

DEPTH		APPROX CORE REMAINING AT CRAE SAMPLING		TAS MINES DEPT		Sample No.	From Ft	To Ft	Rec Ft	ASSAY VALUES (Analysed by AMDEL P.A.S.)									
From Ft	To Ft			SAMPLE NO	ASSAY - Sn					PPM									
										Sn	U	W	Pb	Zn	Cu	Ag	Au	Bi	
										NOT SAMPLED									
200	217	10				717788 <sup>+</sup>	0	200											
217	231'6"	12				89 <sup>+</sup>	200	217	9'3"	25	<4	90	20	390	50	<1			
231'6"	237	5'6"				90	217	231'6"	13'	20	<4	80	20	560	45	<1			
237	247'6"	6				91	231'6"	237	4'9"	135	12	10	50	200	10	1			
247'6"	253	5				92	237	247'6"	8'	40	4	10	30	230	10	<1			
253	260	5'6"				93	247'6"	253	5'6"	15	<4	10	15	230	5	<1			
260	266	5				94	253	260	6'	115	16	20	20	290	15	1			
266	272'6"	5				95	260	266	5'	105	4	10	15	310	10	<1			
							266	272'6"	6'6"	30	12	20	20	290	10	<1			
						670875	0.68%	717989	272'6"	274'8"	1'11"	6300	30	10	2700	3.2%	1300	48	0.015
						670876	Trace	90	274'8"	276'1"	1'5"	350	26	<10	1500	2400	130	12	40
276'1"	285	3'6"				717796		276'1"	285	4'8"	365	16	20	45	600	150	3		
						670877	0.39%	717991	285	288	3'	3700	24	<10	220	3100	670	20	
						78	0.51%	92	288	291'3"	3'3"	4800	26	10	220	2600	470	14	
291'3"	297	5				717797		291'3"	297	5'9"	275	12	10	20	280	20	<1		
						670879	0.29%	717993	297	298	1'	2750	18	20	280	1.2%	570	14	
298	302'6"	5				717798		297	298	1'	2750	18	20	280	1.2%	570	14		
302'6"	307'9"	5				99		298	302'6"	4'6"	120	12	20	20	310	20	<1		
						670880	0.66%	717994	302'6"	307'9"	5'3"	380	12	20	30	580	30	<1	
						81	0.73%	95	307'9"	314	6'3"	7000	24	20	100	3400	680	9	0.01
						82	0.35%	96	314	320'3"	5'7"	6500	30	65	90	1400	2400	32	0.01
326'6"	329'4"	2'6"				717800		320'3"	326'6"	6'3"	3800	32	75	70	1800	2200	27		
						670883	0.12%	717997	326'6"	329'4"	2'10"	95	20	10	15	260	10	<1	
333	341	7				717801		329'4"	333	3'8"	1750	30	15	190	3400	450	18		
						670884	1.00%	717998	333	341	8'	140	24	20	30	240	15	1	
343'10"	348	4				717802		341	343'10"	2'10"	9600	28	25	80	1500	660	12	0.015	
						670885	1.50%	717999	343'10"	348	4'2"	90	20	10	20	185	15	<1	
48'9"	354	5				717803		348	348'9"	9"	1.6%	22	15	50	1600	610	8	<0.005	
354	360	5'6"				04		348'9"	354	5'3"	20	16	20	15	60	5	<1		
								354	360	6'	115	16	20	30	180	20	<1		
										EOM.									
										Best intersections:									
										272'6"	291'3"	18'9"	2350	21			5110	420	13
										307'9"	348'9"	41'	3800	26			1530	910	13

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

SHEET No. 0  
No. 03

TENEMENT NAME ROYAL GEORGE  
PLAN - MAP REFERENCE

CO-ORDINATES ..... AZIMUTH 045° MAG DRILLERS CORNWALL COAL COMMENCED 14.11.66 DEPTH 359' HOLE No. CCC 9  
RL COLLAR 1020' INCLINATION 59° DRILL TYPE ..... COMPLETED 23.1.67 CASING LEFT 4' 12" / 5' 1 1/2" DPO No(s) 25807, 08, 10

DEPTH		APPROX CORE REMAINING AT CRATE SAMPLING		TAS MINES DEPT		Sample No.	From Ft	To Ft	Rec Ft	ASSAY VALUES (Analysed by AMTEL PPM)									
From Ft	To Ft			SAMPLE NO:	ASSAYS - Sn					Sn	U	W	Pb	Zn	Cu	Ag	Au	Bi	
0	16	10				717490+	0	16	11'6"	36	26	150	10	200	210	1			
16	25	9				91+	16	25	7'	44	32	150	10	220	170	1			
25	34	9				92+	25	34	8'	34	36	75	5	190	100	1			
34	64	11				93+	34	64	15'6"	30	34	140	10	210	80	1			
64	93	10				94+	64	93	10'	24	28	160	15	210	70	1			
93	109	14				95+	93	109	15'	26	28	110	5	160	48	1			
109	131	15				96+	109	131	17'	14	26	110	5	150	60	1			
131	151	9				97+	131	151	11'1"	28	30	120	5	230	70	1			
151	161	10				98+	151	161	9'6"	26	34	150	35	340	75	1			
161	176	13				717861+	161	176	13'3"	28	32	300	10	400	250	2			
176	200	12				62+	176	200	9'4"	38	36	150	10	300	70	1			
200	209	6			ALS-check assay	717499	200	209	8'6"	28	28	25	60	230	5	<1			
209	218	6			Sn ppm	717500	209	218	6'	26	26	10	20	170	5	<1			
220'9"	231	6				670741	218	220'9"	1'4"	1700	30	10	520	7400	160	17			
231	242'8"	8				717851	220'9"	231	6'8"	55	26	10	20	260	10	<1			
						52	231	242'8"	8'2"	34	28	15	10	150	2	<1			
243'4"	246'7"	5				670742	242'8"	243'4"	0'8"	8700	24	15	350	1600	760	25			
						717853	243'4"	246'7"	3'3"	42	22	<10	20	360	2	<1			
						670743	246'7"	247'3"	0'8"	9100	28	15	140	1600	1600	40			
						190378	247'3"	255'4"	8'1"	40			10	330	5	<1			
256'1"	261	6				670744	255'4"	256'1"	0'9"	5100	50	15	90	5100	190	6			
						717854	256'1"	261	4'11"	40	26	<10	10	550	8	<1			
						670745	261	261'10"	0'9"	1350	26	15	380	2500	250	40			
261'10"	262'4"						261'10"	262'4"	6"										
263	265	3				717855	263	265	8"	680	28	15	70	2100	110	2			
266'3"	269						266'3"	269	1'7"										
						3500	670746	262'4"	263'	7"	3400	28	15	50	1.18	680	10		
						3800	47	265	266'3"	5"	4000	24	10	40	3000	470	7		
						7700	48	269	274	3'8"	7500	30	<10	360	2900	4100	85	<0.005	
						190377	274	280'5"	5'3"	195			12	400	12	<1			
						9500	670749	280'5"	282'5"	1'8"	9400	24	<10	180	2700	1400	33	<0.005	

24031

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

TENEMENT NAME ROYAL GEORGE No. 20601  
 PLAN - MAP REFERENCE.....  
 DEPTH 359' HOLE No. CCC 9  
 CASING LEFT..... DPO No(s) 25807, 10, 003

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED.....  
 RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED.....

DEPTH		APPROX CORE REMAINING AT CRAE SAMPLING	ALS - Check Assay		SAMPLE NO.	TAS MINES DEPT		Sample No.	From Ft	To Ft	Rec Ft	ASSAY VALUES (Analysed by AMDEL.....) PPM													
From Ft	To Ft		Sn ppm	Ca F2 (Amdel)		ASSAY - Sn	Sn					U	W	Pb	Zn	Cu	Ag	Au	Bi	Ta					
82'5"	283	6							282'5"	283															
83'5"	284'9"							717856	283'5"	284'9"	4'8"	2000	30	<10	80	2400	340	8							
88	291'10"								288'	291'10"															
193	294								293'	294															
			1300		670750	0.12%	717971	283	283'5"	3"	1500	26	<10	45	1900	200	2								
			5400		51	0.42%	72	284'9"	288	2'1"	5200	24	15	130	4800	980	20								
			3100		52	0.32%	73	291'10"	293	9"	2950	34	<10	50	2700	140	3								
			6500		53	0.71%	74	294	296'3"	2'3"	6700	32	10	100	3200	590	16	<.005	38	<10					
16'3"	301'1"	5					717857	296'3"	301'1"	4'10"	150	34	10	35	1400	25	<1								
			9100		670754	0.88%	717975	301'1"	303	1'11"	9000	130	25	150	5300	1800	25	.045	50	10					
			7800	1.38%	55	0.71%	76	303	307	3'6"	7800	30	25	30	950	95	1	.025	16	20					
			6200	1.34%	56	0.66%	77	307	310	3'	6400	38	<10	110	7800	850	20	.020	22	<10					
			1.02%	3.10%	57	1.00%	78	310	315	5'	1.08%	16	<10	340	8200	3600	85	.025	80	<10					
			2100		58	0.23%	79	315	315'9"	8"	2150	44	<10	200	7200	760	25								
15'9"	317'10"	2					717858	315'9"	317'10"	1'11"	190	22	<10	40	480	35	1								
			7500		670759	0.71%	717980	317'10"	320'1"	2'2"	7500	40	<10	65	4900	1050	16	.065	30	10					
			590		60	0.10%	81	320'1"	323'2"	3'1"	660	38	10	90	2800	90	1								
			4400		61	0.48%	82	323'2"	325'8"	2'6"	4700	38	<10	170	6300	2200	27								
			795		62	0.10%	83	325'8"	328'7"	2'11"	840	20	20	75	320	90	1								
			5500		63	0.53%	84	328'7"	329'11"	1'4"	5600	50	10	60	4700	120	2								
							190376	329'11"	339'	9'1"	330				28	440	25	<1							
			1.20%		670764	1.20%	717985	339	342'4"	2'4"	1.28%	840	10	160	4800	400	9	.155	<4	15					
2'4"	346	4					717859	342'4"	346	3'8"	170	60	10	35	440	30	<1								
							190375	346	354	8'	300				8	470	18	<1							
54	359	4					717860	354	359	4'6"	160	12	10	20	440	15	<1								
									EOH																
									Best intersections:	262'4"	342'4"	80'	4080			3000	840	17						124032	
									including:	269'	320'1"	57'1"	4860			3290	1135	24						124032	

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

SHEET No. 1

TENEMENT NAME ROYAL GEORGE No. 0

PLAN - MAP REFERENCE

CO-ORDINATES 446'S, 83'E AZIMUTH 045° MAG DRILLERS CORNWALL COAL COMMENCED 25.1.67 DEPTH 350' HOLE No. CCC 10

RL COLLAR 1006' INCLINATION 60° DRILL TYPE COMPLETED 10.3.67 CASING LEFT DPO No(s) 25810, 13, 14.

DEPTH		APPROX CORE REMAINING AT			TAS MINES DEPT			Sample No.	From Ft	To Ft	Rec Ft	ASSAY VALUES (Analysed by AMDEL & ALS.)								
From Ft	To Ft	CORE SAMPLING			CaF <sub>2</sub>	SAMPLE NO	ASSAY - Sn					Sn	U	W	Pb	Zn	Cu	Ag	Au	Bi
					(Amdel)			0	200			NOT SAMPLED								
200	211		10				717773 <sup>+</sup>	200	211	10'9"	90	12	110	240	340	60	<1			
211	222		10				74 <sup>+</sup>	211	222	11'	45	32	120	20	380	70	<1			
222	235		12				75 <sup>+</sup>	222	235	11'	165	20	140	30	560	80	<1			
235	242		6				717776	235	242	5'3"	250	16	10	40	240	20	1			
242	249'4"		6				77	242	249'4"	7'4"	120	16	20	20	270	10	<1			
					0.88%	670886	0.39%	718000	249'4"	250'6"	1'	4100	28	25	170	3700	1000	25		
250'6"	254'3"		3				717778	250'6"	254'3"	3'9"	60	16	20	20	310	5	<1			
					0.78%	670887	0.97%	717601	254'3"	255'4"	1'1"	1.08%	26	25	50	1000	1400	30	0.03	34
					0.46%	88	Trace	02	255'4"	265'6"	9'11"	370	26	10	15	500	42	<1	0.01	<4
						89	0.58%	03	265'6"	268	1'6"	5600	50	45	80	510	280	7		
268	276		6				717779	268	276	5'6"	340	32	20	30	580	25	<1			
276	281		3'4"			670890	0.63%	795008*	276	281	4'	4700	32		1100	600	10			
281	286'6"		2'9"			91	0.36%	09*	281	286'6"	3'3"	3800	36		1800	480	12			
						92	0.32%	717604	286'6"	290'1"	3'1"	3150	26	10	210	3900	590	14		
290'1"	298		7				717780	290'1"	298	7'5"	220	16	20	25	940	30	<1			
						670893	0.60%	717605	298	300'4"	2'4"	5700	26	20	65	2700	1700	25		
300'4"	304		3				717781	300'4"	304	3'8"	100	20	20	30	840	15	<1			
						670894	0.19%	717606	304	307'7"	2'7"	1800	75	<10	100	4100	560	8		
307'7"	311'6"		3				717782	307'7"	311'6"	3'11"	45	444	50	85	1600	65	5			
						670895	0.06%	717607	311'6"	316'6"	4'	810	640	20	65	1500	200	3		
316'6"	322'2"		4				717783	316'6"	322'2"	4'6"	95	276	30	50	760	50	2			
						670896	0.19%	717608	322'2"	326'10"	4'8"	2000	40	10	90	2300	1400	22		
326'6"	329'4"		2'6"				717784	326'10"	329'4"	2'6"	230	12	20	30	290	10	<1			
						670897	0.32%	717609	329'4"	332'2"	2'10"	3200	44	<10	150	2400	770	16		
332'2"	339		7			* New samples - split core taken. Original sample pulps lost.	717785	332'2"	339	6'10"	265	24	20	70	980	35	1			
339	346'7"		6				86	339	346'7"	7'7"	190	12	20	25	640	35	<1			
						670898	0.05%	717610	346'7"	348'4"	1'9"	380	1300	20	450	6300	570	15		
348'4"	350		1'6"				717787	348'4"	350	1'8"	<5	8	40	30	330	15	<1			
										EDH										
						+ - Sample taken with core grinder				Best intersections:										
								276	290'1"	14'1"	3950	32			2090	550	12			
								322'2"	332'2"	10'	1900	34			1830	870	15			

24033

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

SHEET No. 1  
033

TENEMENT NAME ROYAL GEORGE No. 1  
PLAN - MAP REFERENCE

CO-ORDINATES 119°S, 353'W AZIMUTH 045° MAG DRILLERS ..... COMMENCED 31.10.67 DEPTH 443' HOLE No. CCC 11  
RL COLLAR 965' INCLINATION 60° DRILL TYPE ..... COMPLETED 19.12.67 CASING LEFT 17' EX DPO No(s) 25810, 13, 14.

DEPTH		APPROX CORE REMAINING AT CORE SAMPLING	TAS MINES DEPT		Sample No.	From Ft	To Ft	Rec Ft	ASSAY VALUES (Analysed by AMDEL & ALS) PPM											
From Ft	To Ft		SAMPLE NO	ASSAY - Sn					Sn	U	W	Pb	Zn	Cu	Ag					
						0	250		NOT	SAMPLED										
250	260	8			716415 <sup>+</sup>	250	260	10'	35	16	120	80	200	70	<1					
260	269	8			16	260	269	9'	20	12	10	15	60	5	<1					
269	279	7			17	269	279	10'	175	20	20	65	360	15	<1					
279	289	7			18	279	289	8'6"	55	12	20	60	290	10	<1					
289	296	5			19	289	296	5'6"	30	8	20	55	100	5	<1					
296	306	5			20	296	306	2'	640	112	40	30	210	40	1					
306	317	7			21	306	317	11'	250	136	20	20	660	25	1					
317	324	5			22	317	324	6'6"	360	64	20	115	660	25	1					
324	330'6"	5			23	324	330'6"	6'6"	190	84	20	115	440	15	<1					
					680337				0.11%	717658	330'6"	331'6"	1'	1350	36	20	50	2400	200	2
331'6"	338'6"	6			716424	331'6"	338'6"	7'	170	24	10	20	500	35	<1					
338'6"	344	4			25	338'6"	344	5'6"	435	36	10	20	400	35	<1					
344	351	5			26	344	351	7'	85	16	20	15	150	15	<1					
					680340				0.33%	717661	351	352	1'	4050	18	30	90	530	260	18
352	359	4			716427	352	359	7'	35	12	10	20	160	10	<1					
359	365	4			28	359	365	5'6"	155	12	20	15	500	20	<1					
					680341				0.15%	717662	365	367'3"	2'3"	1950	18	10	20	1100	260	3
367'3"	372	3			716429	367'3"	372	4'9"	5300	40	30	15	240	135	<1					
					680342				0.26%	717663	372	374'9"	2'9"	3300	22	20	15	590	210	2
					43				0.10%	64	374'9"	376	1'	1250	24	20	30	1300	960	10
					44				0.15%	65	376	379'6"	2'2"	1900	20	25	20	910	140	3
					45				0.15%	66	379'6"	383	2'8"	2100	20	15	40	1300	940	6
					46				0.41%	67	383	384'9"	1'9"	4500	34	10	10	1600	160	1
					47				0.05%	68	384'9"	388'6"	3'6"	60	30	15	10	120	15	<1
					48				0.09%	69	388'6"	392	3'3"	1250	34	15	20	1300	70	1
					49				0.05%	70	392	395	2'9"	330	34	15	50	1200	65	2
					50				0.15%	71	395	396'9"	1'6"	2150	20	10	35	1700	1800	4
					51				0.06%	72	396'9"	398	1'3"	430	18	15	20	1100	2200	1
					52				0.06%	73	398	399	1'	820	14	20	260	1800	2000	37
					53				0.05%	74	399	402'9"	3'9"	350	26	15	15	390	350	1

124034

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

SHEET No. 20  
TENEMENT NAME ROYAL GEORGE No. 34  
PLAN - MAP REFERENCE

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH 443' HOLE No. CCC 11  
RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 25810, 13

DEPTH		APPROX CORE REMAINING AT GRAVE SAMPLING	TAS MINES DEPT		Sample No.	From ft	To ft	Rec ft	ASSAY VALUES (Analysed by AMPTEL + ALS.) PPM						
From ft	To ft		SAMPLE NO	ASSAY - Sn					Sn	U	W	Pb	Zn	Cu	Ag
404'6"	412	5	680354	0.08%	717675	402'9"	404'6"	1'9"	1250	24	15	15	3100	390	<1
412	415'6"	3			716430	404'6"	412	7'6"	430	4	20	20	600	75	1
			680355	0.15%	717698	412	415'6"	3'6"	220	4	10	20	480	25	<1
417	421'6"	3			717676	415'6"	417	1'6"	2100	18	30	20	700	720	6
			680356	0.07%	717699	417	421'6"	4'6"	60	8	10	60	440	30	1
			57	0.38%	717677	421'6"	423'6"	2'	800	26	20	65	1400	200	6
425'6"	428'9"	2'6"			717678	423'6"	425'6"	2'	4600	20	110	130	7900	180	6
					717700	425'6"	428'9"	3'3"	60	4	20	20	185	20	<1
						428'9"	443	NOT SAMPLED							
								E0H							
						Best intersection :	367'3"	384'9"	17'6"	3300	27		850	370	3

124035

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

SHEET No. 1035  
TENEMENT NAME ROYAL GEORGE No. 035  
PLAN - MAP REFERENCE

CO-ORDINATES 235'S 250'W AZIMUTH 045° MAG DRILLERS CORNWALL COAL COMMENCED 19.6.67 DEPTH 510' HOLE No. CCC 12  
RL COLLAR 991' INCLINATION 60° DRILL TYPE COMPLETED 26.7.67 CASING LEFT 7' EX DPO No(s) 25810, 13, 14

DEPTH		APPROX CORE REMAINING AT CRAE SAMPLING	TAS MINES DEPT		Sample No.	From Ft	To Ft	Rec Ft	ASSAY VALUES (Analysed by AMDEL + ALS) PPM							
From Ft	To Ft		V SAMPLE NO.	ASSAY- Sn					Sn	U	W	Pb	Zn	Cu	Ag	
						0	56		NOT SAMPLED							
56	61	3			717751	56	61	2'6"	395	12	40	300	2000	85	5	
						61	330		NOT SAMPLED							
330	344	10			717752 <sup>+</sup>	330	344	9'6"	275	28	120	30	520	110	2	
				671702	Trace	717611	344	349	4'6"	150	26	30	110	380	22	<1
				03	Trace	12	349	354	5'	200	46	<10	120	580	35	1
				04	Trace	13	354	359	5'	350	32	10	240	930	38	<1
				05	0.10%	14	359	362'6"	3'6"	1500	60	15	150	2900	90	3
				06	Trace	15	362'6"	367'6"	4'6"	680	70	<10	100	1200	55	<1
				07	Trace	16	367'6"	371'6"	4'	560	32	<10	95	1600	40	<1
				08	Trace	17	371'6"	375'6"	5'	110	40	<10	75	710	15	<1
				09	Trace	18	375'6"	380'3"	4'9"	770	70	<10	170	500	65	<1
				10	Trace	19	380'3"	384'6"	4'3"	350	55	10	120	960	50	<1
				11	0.18%	20	384'6"	388'6"	4'	2350	28	20	140	410	30	<1
				12	Trace	21	388'6"	392'6"	4'	560	34	<10	100	780	70	<1
				13	Trace	22	392'6"	396'3"	3'9"	300	30	25	95	800	70	<1
				14	Trace	23	396'3"	399	2'9"	100	36	<10	70	340	30	<1
				15	0.18%	24	399	403	4'	2150	24	30	110	2500	1400	10
				16	0.70%	25	403	407	4'	7400	36	20	85	1100	390	3
				17	Trace	26	407	412	5'	860	32	10	75	640	85	<1
				18	0.10%	27	412	416	4'	2050	28	35	110	1500	890	11
				19	Trace	28	416	420	4'	550	28	25	45	810	230	1
420	429'6"	8			717753 <sup>+</sup>	420	429'6"	9'6"	230	20	230	20	960	170	1	
				671720	0.10%	717629	429'6"	432'6"	3'	1300	38	15	50	1400	290	3
				21	Trace	30	432'6"	435'6"	3'	1300	30	20	45	750	170	1
				22	0.28%	31	435'6"	438'6"	3'	3350	38	15	180	2900	600	26
				23	0.10%	32	438'6"	441'6"	3'	1800	22	10	70	910	290	5
				24	0.10%	33	441'6"	444	2'6"	2000	22	30	65	1300	340	6
444	456	10			717754 <sup>+</sup>	444	456	12'	60	16	130	15	580	70	<1	
				671725	Trace	717634	456	458'3"	2'3"	300	32	<10	60	780	55	1
458'3"	461'6"	3		+ Sample taken with core grinder	717755 <sup>+</sup>	458'3"	461'6"	3'3"	30	24	140	15	270	80	<1	

424030



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

TENEMENT NAME ROYAL GEORGE No. 0

PLAN - MAP REFERENCE CS

CO-ORDINATES 497's, 6'E AZIMUTH 045° MAG DRILLERS CORNWALL COAL COMMENCED 11.9.67 DEPTH 505' HOLE No. CCC 13

RL COLLAR 1020' INCLINATION 60° DRILL TYPE  COMPLETED 24.10.67 CASING LEFT 10' EX DPO No(s) 25810, 13, 14

DEPTH		APPROX CORE REMAINING AT CRAE SAMPLING	TAS MINES DEPT SAMPLE NO	ASSAY - Sn	Sample No.	From Ft	To Ft	Rec Ft	ASSAY VALUES (Analysed by <u>AMDEL - ALS</u> ) PPM											
From ft	To ft								Sn	U	W	Pb	Zn	Cu	Ag					
						0	304		NOT SAMPLED											
304	314	9			717759*	304	314	10'	80	276	110	20	720	85	<1					
314	324	9			60*	314	324	10'	10	20	120	10	195	60	<1					
324	334'6"	9			61*	324	334'6"	10'6"	40	20	140	20	250	70	<1					
334'6"	344	10			62*	334'6"	344	9'6"	15	24	120	20	125	40	<1					
344	352	8			63*	344	352	8'	15	16	90	15	150	50	<1					
352	360	8			64*	352	360	8'	10	24	110	20	140	45	<1					
360	365	5			65	360	365	5'	50	24	20	20	60	5	<1					
365	370	5			66	365	370	5'	35	36	20	50	50	5	1					
370	376	6			67	370	376	6'	20	56	20	10	40	5	<1					
376	383'6"	7			68	376	383'6"	7'6"	30	12	20	10	50	5	<1					
						476														
					672193				0.25%	717636	383'6"	388	4'6"	500	36	10	270	1200	100	6
						150			0.09%	37	388	393	5'	150	32	<10	95	340	30	1
						2900			0.35%	38	393	395	2'	3150	24	15	360	1200	210	10
						1100			0.12%	39	395	400	5'	1150	20	30	110	710	540	7
						505			0.07%	40	400	404'6"	4'6"	640	24	15	35	830	80	1
						385			0.09%	41	404'6"	409	4'6"	430	20	15	45	560	42	1
									0.30%	42	409	413'3"	4'3"	3450	22	20	160	1200	410	4
									0.69%	43	413'3"	415'9"	2'6"	7400	24	50	200	1400	1300	16
									< 0.05%	44	415'9"	418	2'3"	620	32	25	90	720	80	2
									< 0.05%	45	418	421	3'	700	24	15	470	1300	80	4
									0.12%	46	421	427'3"	6'3"	1150	24	35	110	750	1200	17
									< 0.05%	47	427'3"	434'6"	7'3"	330	24	20	20	330	50	<1
									0.05%	48	434'6"	436	1'6"	900	24	15	45	890	160	2
									0.34%	49	436	439'3"	3'3"	3850	20	20	180	1800	840	20
439'3"	444	8"			717769	439'3"	444	1'	1.68%	4	90	170	540	880	13					
									0.56%	717650	439'3"	444	sludge	6000	30	740	110	950	910	9
									Average used in calculations:		439'3"	444		8270	25			860	900	10
									0.30%	672208	444	449'3"	5'3"	5250	24	70	160	1700	2500	45
									0.60%	09	449'3"	453'6"	4'3"	2800	24	35	80	2300	400	8
									0.15%	53	453'6"	455'6"	2'	1600	26	15	100	1100	200	10

+ - Sample taken with core grinder

ALS - check Assay - Sn (ppm)

Ca F<sub>2</sub>  
(Amel)

672207 (sludge)

Average used in calculations:

24038



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

TENEMENT NAME ROYAL GEORGE No. 0

PLAN - MAP REFERENCE 03

CO-ORDINATES 440'S, 104'W AZIMUTH 045° MAG DRILLERS BHP COMMENCED May 1957 DEPTH 614'2" HOLE No. BHP 5

RL COLLAR 10.11' INCLINATION 60° DRILL TYPE  COMPLETED  CASING LEFT  DPO No(s) 25816 + 819

DEPTH		TAS MINES DEPT		AMDEL CHECK	Sample No.	From	To	* Rec	ASSAY VALUES (Analysed by <u>ALS</u> )						
From	To	ASSAY-Sn	SAMPLE N°.	ASSAYS-Sn		Ft	Ft	Ft	Sn	U	W	Pb	Zn	Cu	Ag
0	401'3"	Nil	516			0	401'3"		NOT SAMPLED						
401'3"	411'3"	Nil	517		717817	401'3"	411'3"	9'6"	115	24			380	20	1
411'3"	414'4"	Nil	518		18	411'3"	418'6"	6'8"	225	12			1400	120	9
414'4"	415'11"	Trace	519		19	418'6"	426'3"	7'	100	16			220	20	<1
415'11"	418'6"	Trace	520		20	426'3"	431	6'4"	70	16			140	15	<1
418'6"	426'3"	Trace	521		21	431	435'6"	6'	135	16			270	30	1
426'3"	435'6"	Nil	522		22	435'6"	441'6"	5'6"	690	33			420	140	8
435'6"	441'6"	Trace	523		23	441'6"	451'3"	8'1"	175	28			210	20	<1
441'6"	451'3"	Trace	524		24	451'3"	460'3"	8'5"	900	20			720	55	1
451'3"	460'3"	Trace	525		2200	460'3"	466'6"	5'6"	1830	<4			1800	600	10
460'3"	461	0.45%	526		690	466'6"	471'6"	5'9"	595	<4			400	135	2
461	469	Trace	527		820	471'6"	476'7½"	5'3"	710	<4			480	290	2
469	475'2½"	Trace	528		1450	476'7½"	482'7½"	4'7"	1185	4			900	400	3
475'2½"	476'7½"	Trace	529		8400	482'7½"	488'3½"	5'4"	9100	16			1500	880	17
476'7½"	478'8"	Trace	530		1250	488'3½"	494'3½"	5'4"	1375	16			1000	155	3
478'8"	481'4"	0.10%	531		830	494'3½"	501'6½"	6'7"	975	16			860	1300	14
481'4"	482'7½"	Trace	532		1950	501'6½"	505'	3'8"	1740	36			1200	380	8
482'7½"	488'3½"	1.62%	533	482'7½" - 511'½"	1750	505'	511'½"	6'1"	1505	24			1200	180	5
488'3½"	494'3½"	Trace	534	- 28'5" @	1200	511'½"	516'5"	5'7"	1005	20			580	440	7
494'3½"	504	0.32%	535	0.49% Sn	630	516'5"	522'7"	6"	555	28			460	40	<1
504	505	0.47%	774		660	522'7"	531'9"	7"	615	16			420	370	3
505	508'2"	Nil	775		290	531'9"	540'11"	7'10"	220	24			240	35	<1
508'2"	511'½"	0.30%	776		920	540'11"	547'	6'1"	710	20			960	65	1
511'½"	512'5"	Nil	777		260	547'	553'1½"	5'9"	230	20			280	30	<1
512'5"	514'4"	0.16%	778		2600	553'1½"	562	6'10"	2100	20			2000	110	4
514'4"	516'5"	Trace	779			562	572	6'2"	50	20			340	30	<1
516'5"	531'9"	Trace	780			572	578'6"	6'6"	985	28			500	25	1
531'9"	540'11"	Trace	781			578'6"	586	7'3"	355	24			700	30	1
540'11"	542	0.29%	782			586	592	5'4"	605	20			400	20	<1
542	553'1½"	Trace	783			592	600	8'3"	65	20			210	30	<1
553'1½"	553'9"	Trace	784			600	608	8'6"	125	24			230	20	<1

124040

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

TENEMENT NAME ROYAL GEORGE No. 040

PLAN - MAP REFERENCE

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. BHP

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 25816

DEPTH		TAS MINES DEPT		Sample No.	From (M) Ft	To (M) Ft	Rec (M) Ft	ASSAY VALUES (Analysed by <u>ALS</u> )						
From (M) Ft	To (M) Ft	ASSAY-Sn	SAMPLE NO.					Sn	U	W	Pb	Zn	Cu	Ag
553'9"	554'8 1/2"	Trace	785	717847	608	614'2"	6'7"	130	24			700	40	1
554'8 1/2"	557' 1/2"	0.27%	786			EOH								
557' 1/2"	572	Nil	787											
572	586	Nil	788											
586	592	Trace	789											
592	600	Nil	790											
600	608	Nil	791											
608	611'7"	Nil	792											
611'7"	612'7"	Trace	793											
612'7"	614'2"	Nil	794											
<p>Note: Mines Dept Samples comprise half-split A size core. Sample pulp now missing.</p>														
<p>Best intersection: 482'7 1/2" 511' 1/2" 28'5" 2890 20 1130 620 10 including: 482'7 1/2" 505' 22'5 1/2" 3250 19 1110 740 11</p>														

121011

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

SHEET No. 041  
TENEMENT NAME ROYAL GEORGE No. 041  
PLAN - MAP REFERENCE

CO-ORDINATES 774'S, 247'E AZIMUTH 045° MAG DRILLERS BHP COMMENCED DEPTH 624' HOLE No. BHP 2  
RL COLLAR 1004' INCLINATION 60° DRILL TYPE COMPLETED JUNE-JULY 1957 CASING LEFT DPO No(s) 25816

DEPTH		TAS MINES DEPT		Sample No.	From Ft	To Ft	* Rec Ft	ASSAY VALUES (Analysed by ALS)						
From Ft	To Ft	ASSAY-Sn	SAMPLE N°					Sn	U	W	Pb	Zn	Cu	Ag
0	260'9"	NOT SAMPLED		795010	600'	606'	3'	3200	24			1300	270	5
160'9"	262'1"	Nil	834	CRAE samples are quartered A size core.										
162'1"	445'9"	NOT SAMPLED												
145'9"	446'6"	0.11%	894											
146'6"	449'	0.08%	895											
149'	453'	0.22%	1143	449'-461'										
153'	455'6"	0.37%	1144	-12' @ 0.21% Sn										
155'6"	458'	0.11%	1145											
158'	461'	0.14%	1146											
461	604	NOT SAMPLED												
604	624	Trace	1147											

lines Dept samples are  
half-split A size core  
sample pulps have been lost  
rest core now missing.

\* - Core remaining at  
CRAE sampling.

124042

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

SHEET No. 1  
TENEMENT NAME ROYAL GEORGE No. 04  
PLAN - MAP REFERENCE D2

CO-ORDINATES 602'S, 65'E AZIMUTH 045° MAG DRILLERS BHP COMMENCED DEPTH 510' 5" HOLE No. BHP 3  
RL COLLAR 1014 INCLINATION 60° DRILL TYPE COMPLETED SEPT 1957 CASING LEFT DPO No(s) 25816

DEPTH		TAS MINES DEPT		Sample No.	From Ft	To Ft	* Rec Ft	ASSAY VALUES (Analysed by AS)						
From Ft	To Ft	ASSAY-Sn	SAMPLE N°					PPM						
								Sn	U	W	Pb	Zn	Cu	Ag
456'5"	456'9"	0.2%	1115	456'5"-467'4":		0	456'	NOT	SAMPLED					
456'9"	457'4"	Trace	1116	10'11" @ 0.27% Sn	717848	456	461	4'2"	2900	16		2200	140	3
457'4"	459'4"	0.97%	1117		49	461	466	4'4"	2800	20		580	420	10
459'4"	461'3 1/2"	Trace	1118		717850	466	474	6'9"	305	32		960	2800	70
461'3 1/2"	464'4"	0.16%	1119		795001	474	481'6"	6'6"	710	28		1600	1000	12
464'4"	467'4"	0.10%	1120		02	481'6"	484'6"	0'6"	50	20		840	20	1
467'4"	470'4"	Trace	1121		03	484'6"	493	7'11"	700	24		1100	90	2
470'4"	473'4"	Trace	1122		04	493	501'6"	7'11"	500	28		420	50	<1
473'4"	477'1"	Trace	1123		05	501'6"	510'5"	7'6"	660	24		400	400	3
477'1"	478'5"	0.31%	1124				EOH							
478'5"	481'6"	Trace	1125			456	466	10'	2850	18		1390	280	6
481'6"	488'5"	Trace	1126			456	474	18'	1720	24		1200	1400	35
488'5"	491'4"	0.17%	1127											
491'4"	508	Trace	1128											
508	510'5"	0.11%	1129											

Best intersection:  
also:

\* Core remaining at CRAE sampling.  
CRAE samples comprise quartered A size core.

Note: Mines Dept samples comprise split A size core. Sample pulps now lost.

124043

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

SHEET No. 1

TENEMENT NAME ROYAL GEORGE No. 0

PLAN - MAP REFERENCE C-3

CO-ORDINATES 551° S, 121° E AZIMUTH 045° MAG DRILLERS COMMENCED DEPTH 370' HOLE No. BG-80 (RINGWOOD)

RL COLLAR 1026' INCLINATION 43-5° DRILL TYPE COMPLETED 1955 CASING LEFT DPO No(s)

DEPTH		Core Rec. (M)	Core Size	Graphic Log	Sample No.	From Ft	To Ft	Rec	ASSAY VALUES (Analysed by Mines Dept. + BMR)	
From (M)	To (M)								Sn	U
						0	240'		NOT SAMPLED	
						240	243'6"		Trace	12
						243'6"	249		Nil	43
						249	255		Nil	57
						255	260		Nil	120
						260	265		Nil	49
						265	267'6"		Nil	58
						267'6"	269		0.58%	190
						269	275		Nil	140
						275	279		Nil	98
						279	284		Trace	100
						284	289'6"		Nil	70
						289'6"	296		0.11%	61
						296	302		0.67%	110
						302	307		0.64%	40
						307	313		Trace	130
						313	316		0.89%	175
						316	323		1.0%	76
						323	326		Trace	130
						326	332'6"		Nil	180
						332'6"	337'6"		Nil	77
						337'6"	342'6"		0.16%	150
						342'6"	350		0.25%	86
						350	354		Nil	50
						354	356		Nil	80
						356	370		Trace	50
							EOH			

Note: Core and all sample pulps are now missing.

296-323:-  
27 2 0.64% Sn

124044

APPENDIX III

UNDERGROUND SAMPLING RESULTS.

C.R.A. EXPLORATION PTY. LIMITED

TENEMENT NAME ROYAL GEORGE No. ....

PLAN - MAP REFERENCE .....

UNDERGROUND SAMPLING - 2 LEVEL

DPO No(s) 25819

		TAS MINES DEPT		Sample No.	From	To	Rec	ASSAY VALUES (Analysed by <i>Andel</i> )					
		SAMPLE NO.	Sn					Sn	U	Zn	Cu	Ag	
FACE IN X CUT, SOUTH END OF		663495	0.63%	795011	0	3' 4"	3' 4"	30	5300	1300	16		
2 LEVEL - SECTION G-G1		96	Trace	12	3' 4"	5' 7"	2' 3"	30	1000	400	1		
		97	0.63%	13	5' 7"	7' 2"	1' 7"	30	4800	1300	12		
		98	0.37%	14	7' 2"	17'	9' 10"	48	2000	730	5		
		99	0.09%	15	17'	18' 2"	1' 2"	65	3900	520	7		
		663500	0.22%	16	18' 2"	31' 4"	13' 2"	75	1900	1100	8		
		Average:	0.31%			31' 4"		56	2450	940	8		

043

124046

C.R.A. EXPLORATION PTY. LIMITED

SHEET No. 1

TENEMENT NAME ROYAL GEORGE No. ....

PLAN - MAP REFERENCE.....

UNDERGROUND SAMPLING - 3 LEVEL

DPO No(s) 25820

046

TAS MINES DEPT

ASSAY VALUES (Analysed by Amdel)  
PPM

Continuous channel  
samples taken by  
Cornwall Coal Co.  
July 1969.

SHAFT X CUT - NORTH WALL :	SAMPLE N <sup>o</sup>	Cu	As	Sn	Sample No.	From Ft	To Ft	Rec	ASSAY VALUES (Analysed by <u>Amdel</u> )				
									Sn	U	Zn	Cu	Ag
	691258	0.11%	0.40%	0.53%	795052	40"	42		6400	32	3600	1150	22
	59			0.07%	53	42	46' 6"		670	55	1500	240	1
* Distance from survey line in shaft.	60	0.09%	0.40%	0.91%	54	46' 6"	47' 10"		1042	40	4700	960	19
	61			0.08%	55	47' 10"	49' 2"		1150	80	6800	490	6
	62	0.12%	0.65%	0.72%	56	49' 2"	53' 8"		9200	50	5100	1300	20
	63			0.10%	57	53' 8"	57' 2"		1050	34	2000	250	2
	64	0.13%	0.92%	0.72%	58	57' 2"	59' 7"		9400	60	3600	1450	28
	Average:						19' 7"		5050	49	3470	790	13
SHAFT X CUT - SOUTH WALL - 1ST SAMPLE	691251	0.11%	0.47%	1.6%	795045	38"	40		1822	26	1800	1200	21
	52			0.03%	46	40	44' 7"		710	38	1450	240	< 1
	53	0.14%	0.44%	0.74%	47	44' 7"	46' 1"		8950	34	4500	1500	29
	54			0.03%	48	46' 1"	46' 7"		800	42	5600	360	5
	55	0.12%	0.47%	0.91%	49	46' 7"	52' 7"		9900	40	7900	1300	22
	56			0.23%	50	52' 7"	55'		2850	50	2200	380	3
	57	0.19%	1.20%	0.78%	51	55	57' 10"		8900	34	2800	2000	44
	Average:						19' 10"		7310	38	4060	1020	18
SHAFT X CUT - SOUTH WALL - 2ND SAMPLE	692359	0.09%		1.63%	795040	38"	40		1622	24	1850	1000	21
	60	0.01%		Trace	41	40	44' 7"		290	32	890	140	< 1
	61	0.10%		0.66%	42	44' 7"	52' 7"		8500	34	4500	1150	19
	62	0.03%		0.20%	43	52' 7"	55'		2450	50	2500	370	4
	63	0.18%		0.85%	44	55	57' 10"		1032	34	2800	2100	45
	Average:						19' 10"		6900	34	2910	940	17

124047

C.R.A. EXPLORATION PTY. LIMITED

SHEET No. 1  
TENEMENT NAME... ROYAL GEORGE No. 047  
PLAN - MAP REFERENCE.....

UNDERGROUND SAMPLING - 4 LEVEL

DPO No(s) 25820

				TMS MINES DEPT			Sample No.	From Ft	To Ft	Rec	ASSAY VALUES (Analysed by <i>Amal</i> )								
				SAMPLE N <sup>o</sup>	Cu	Sn					PPM								
											Sn	U	Zn	Cu	Ag				
Continuous channel samples taken by Cornwall Coal Co <sup>y</sup> December 1969.	100' SOUTH X CUT :			692366	0.11%	0.58%	795017	Footwall	4' 8"		7100	30	2800	1250	22				
				67	0.02%	Trace	18	4' 8"	8' 8"		920	26	1650	220	1				
				68	0.17%	0.59%	19	8' 8"	18' 10"		7500	32	2700	1950	34				
				69	0.02%	Trace	20	18' 10"	22' 2"		680	26	2300	190	<1				
				70	0.05%	0.28%	21	22' 2"	26'		3950	28	2500	490	5				
							Average:			26'		5020	29	2480	1120	18			
				50' SOUTH X CUT :			692549	0.18%	0.52%	795022	Footwall	1' 3"	6650	55	4000	1950	27		
						50	0.01%	Trace	23	1' 3"	3' 9"	570	80	1450	140	<1			
						51	0.08%	0.52%	24	3' 9"	5'	5600	46	3800	870	10			
						52	0.01%	Nil	25	5'	6' 6"	160	34	1300	120	<1			
						53	0.07%	0.65%	26	6' 6"	11' 8"	7150	30	6100	810	15			
						54	0.01%	Trace	27	11' 8"	14' 2"	390	30	1600	120	<1			
						55	0.09%	0.39%	28	14' 2"	16' 5"	4900	30	3700	970	21			
						56	0.01%	Trace	29	16' 5"	18' 5"	490	36	1400	130	<1			
						57	0.02%	0.20%	30	18' 5"	19' 4"	2400	85	2300	200	<1			
						58	0.01%	Trace	31	19' 4"	20' 10"	280	60	1050	150	<1			
						59	0.18%	0.60%	32	20' 10"	27' 10"	6800	46	3800	2000	42			
									Average:			27' 10"	4210	44	3310	910	17		
			SHAFT X CUT - SOUTH WALL			692565	0.07%	0.48%	795033	*37' 7"	44' 4"	5550	26	3200	790	11			
						66	0.01%	Trace	34	44' 4"	46' 5"	420	30	1050	120	<1			
						*Distance from survey line in shaft			67	0.07%	0.98%	35	46' 5"	51' 9"	1.04%	26	2500	730	11
						68	0.01%	Trace	36	51' 9"	53' 11"	200	24	500	130	<1			
						69	0.17%	0.56%	37	53' 11"	55' 7"	6300	30	3600	1750	39			
						70	0.02%	Trace	38	55' 7"	60' 3"	490	28	710	190	1			
						71	0.07%	0.67%	39	60' 3"	64' 10"	7050	28	2300	800	15			
									Average:			27' 3"	5110	27	2130	630	10		

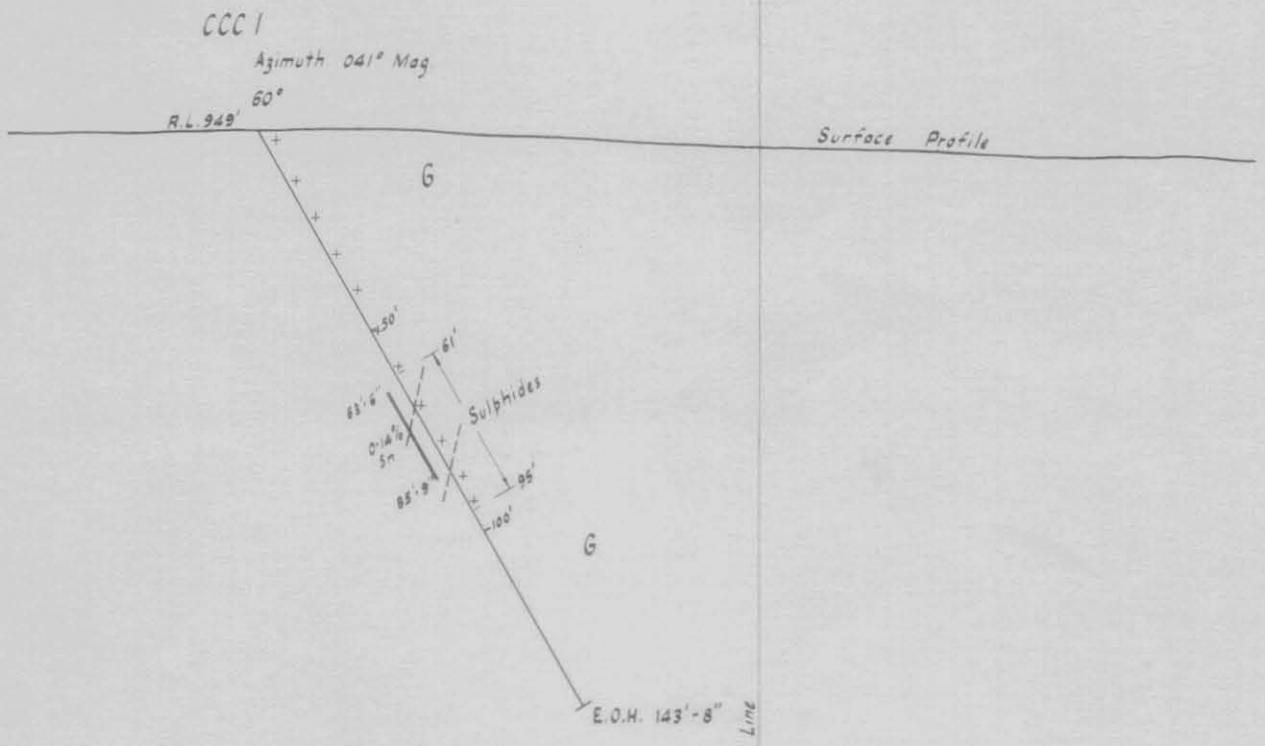
124048



S.W.

N.E.

R.L. 1000'



LEGEND

-  Mineralised fractures or 'greisen' bands
-  Altered biotite granite with tourmaline
-  'Greisenised' zone or occasional 'greisen' bands within the granite

049

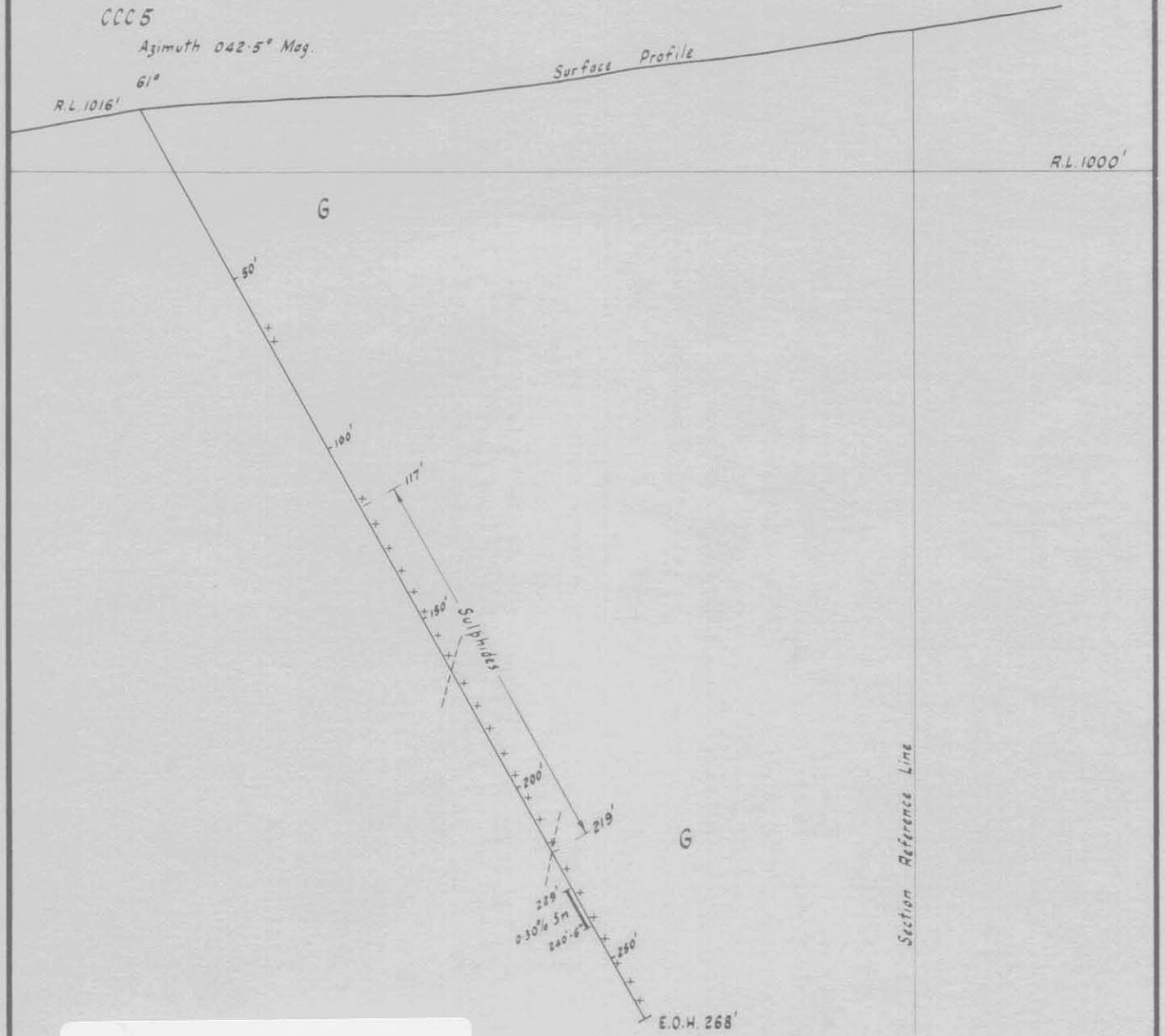
C.R.A. EXPLORATION PTY. LIMITED		
E.L. 7/78 - N.E. TASMANIA		
ROYAL GEORGE MINE		
DRILL SECTION CCC 1		
LOOKING N.W.		
geologist: J.G.P.	scale: 1:500	report no: 9786
drawn: T.G.D.S.	date: August 1979	plan no: Tc143



S.W.

124052

N.E.



LEGEND

- / Mineralised fractures
- G Altered biotite granite with tourmaline
- + 'Greisenised' zone or occasional 'greisen' bands within the granite

051

C.R.A. EXPLORATION PTY. LIMITED		
E.L. 7/78 - N.E. TASMANIA		
ROYAL GEORGE MINE		
DRILL SECTION CCC 5		
LOOKING N.W.		
geologist: J.G.P.	scale: 1:500	report no: 9786
drawn: T.G.D.S.	date: August 1979	plan no: Tc145

S.W.

124053 N.E.

CCC 6

Azimuth 036° Mag.

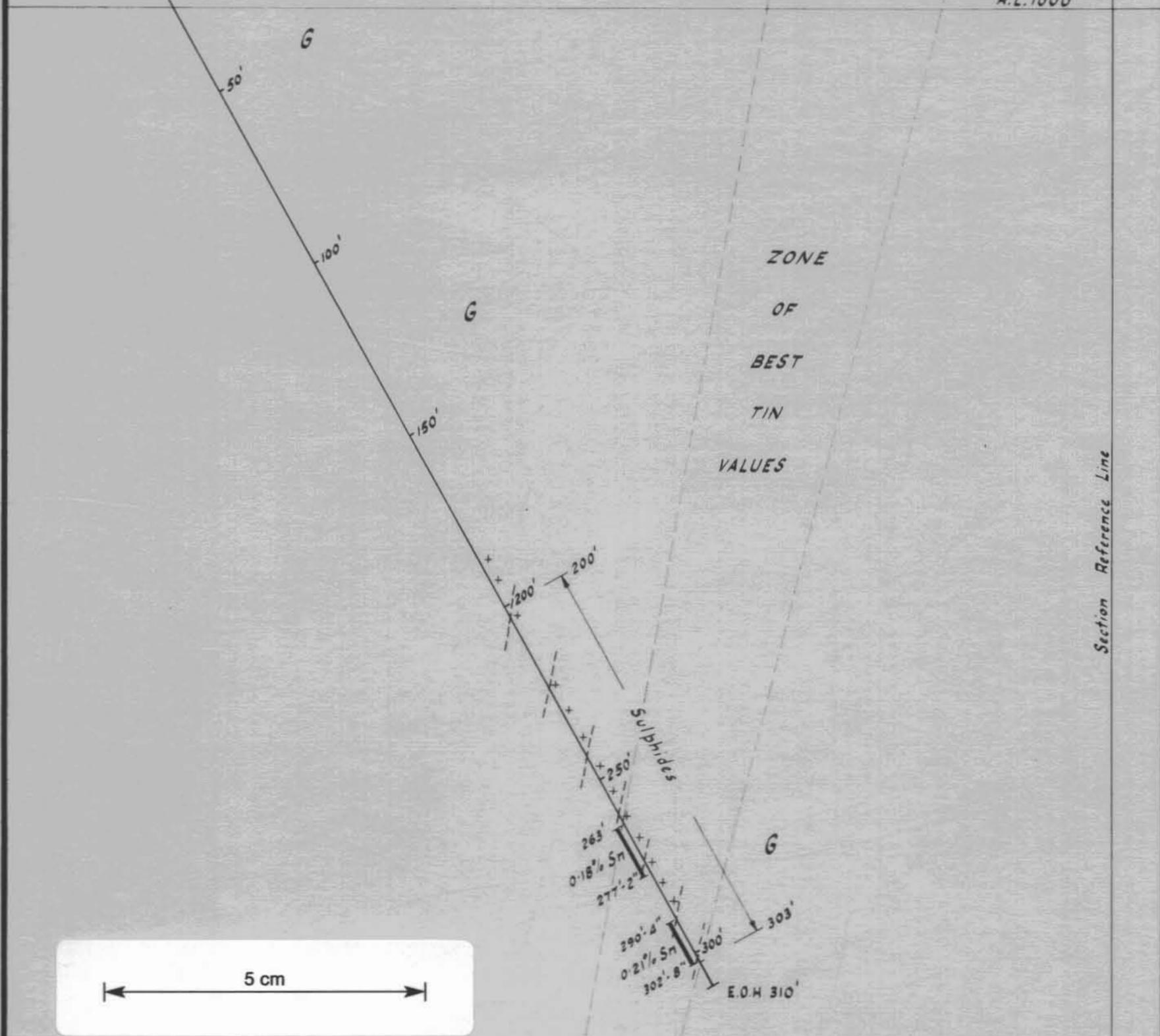
Surface Profile

OPEN CUT

R.L. 1020'

60.5°

R.L. 1000'



5 cm

LEGEND

- Mineralised fractures or 'greisen' bands
- G** Altered biotite granite with tourmaline
- +** 'Greisenised' zone or occasional 'greisen' bands within the granite

052

C.R.A. EXPLORATION PTY. LIMITED

E.L. 7/78 - N.E. TASMANIA

ROYAL GEORGE MINE

DRILL SECTION CCC 6

LOOKING N.W.

geologist: J.G.P.

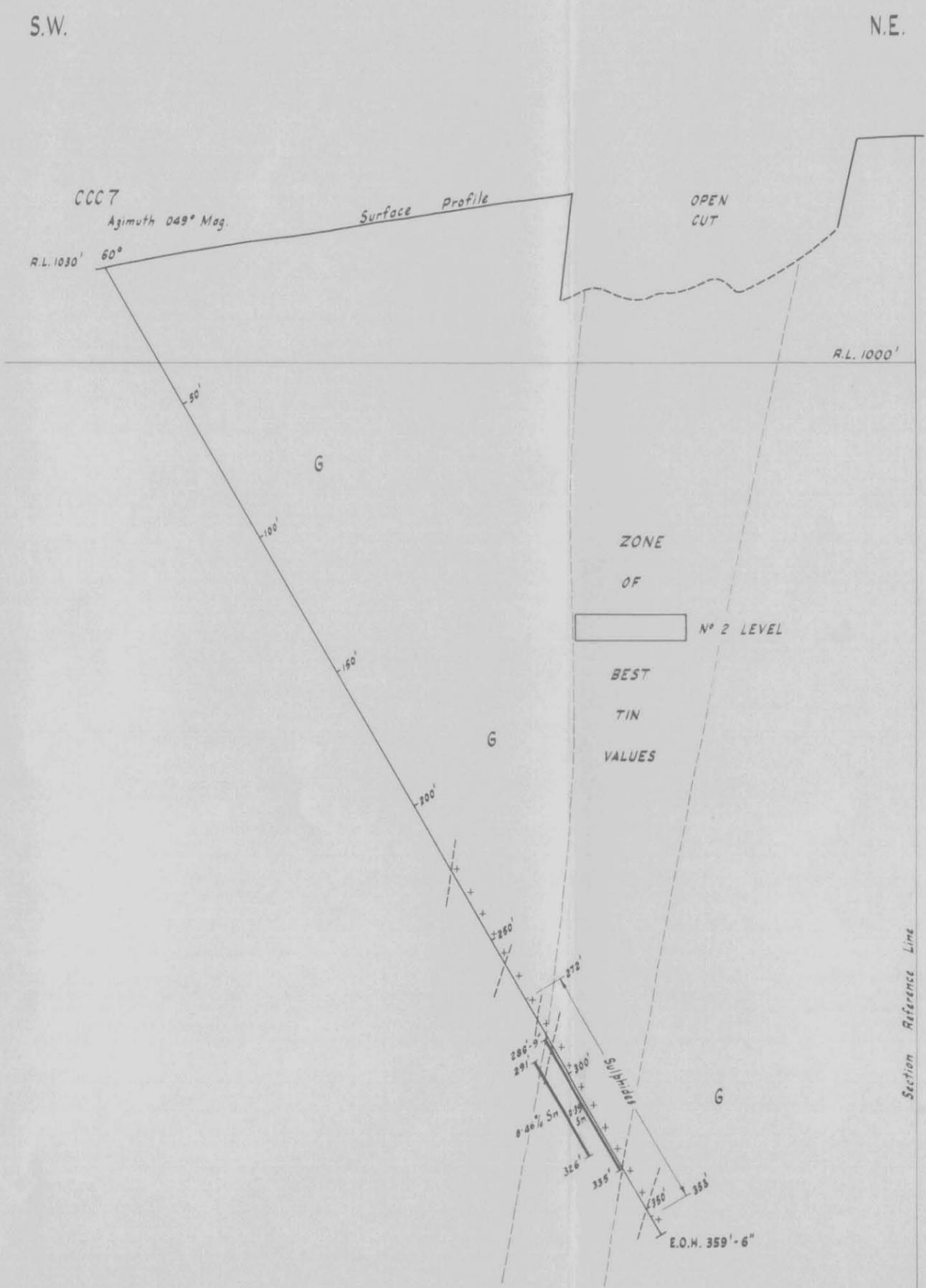
scale: 1:500

report no: 9786

drawn: T.G.D.S.

date: Sept. 1979

plan no: Tc 160



LEGEND

-  Mineralised fractures or 'greisen' bands
-  Altered biotite granite with tourmaline
-  'Greisenised' zone or occasional 'greisen' bands within the granite



053

C.R.A. EXPLORATION PTY. LIMITED		
E.L. 7/78 - N.E. TASMANIA		
ROYAL GEORGE MINE		
DRILL SECTION CCC 7		
LOOKING N.W.		
geologist: J.G.P.	scale: 1:500	report no: 9786
drawn: T.G.D.S.	date: August 1979	plan no: Tc161



LEGEND

- Mineralised fractures or 'greisen' bands
- Altered biotite granite with tourmaline
- 'Greisenised' zone or occasional 'greisen' bands within the granite



054

C.R.A. EXPLORATION PTY. LIMITED

E.L. 7/78 - N.E. TASMANIA

ROYAL GEORGE MINE

DRILL SECTION CCC 4 & 11

LOOKING N.W.

geologist: J.G.P.	scale: 1:500	report no: 9786
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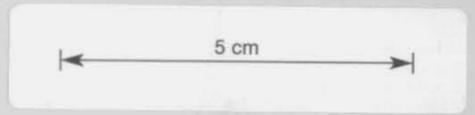
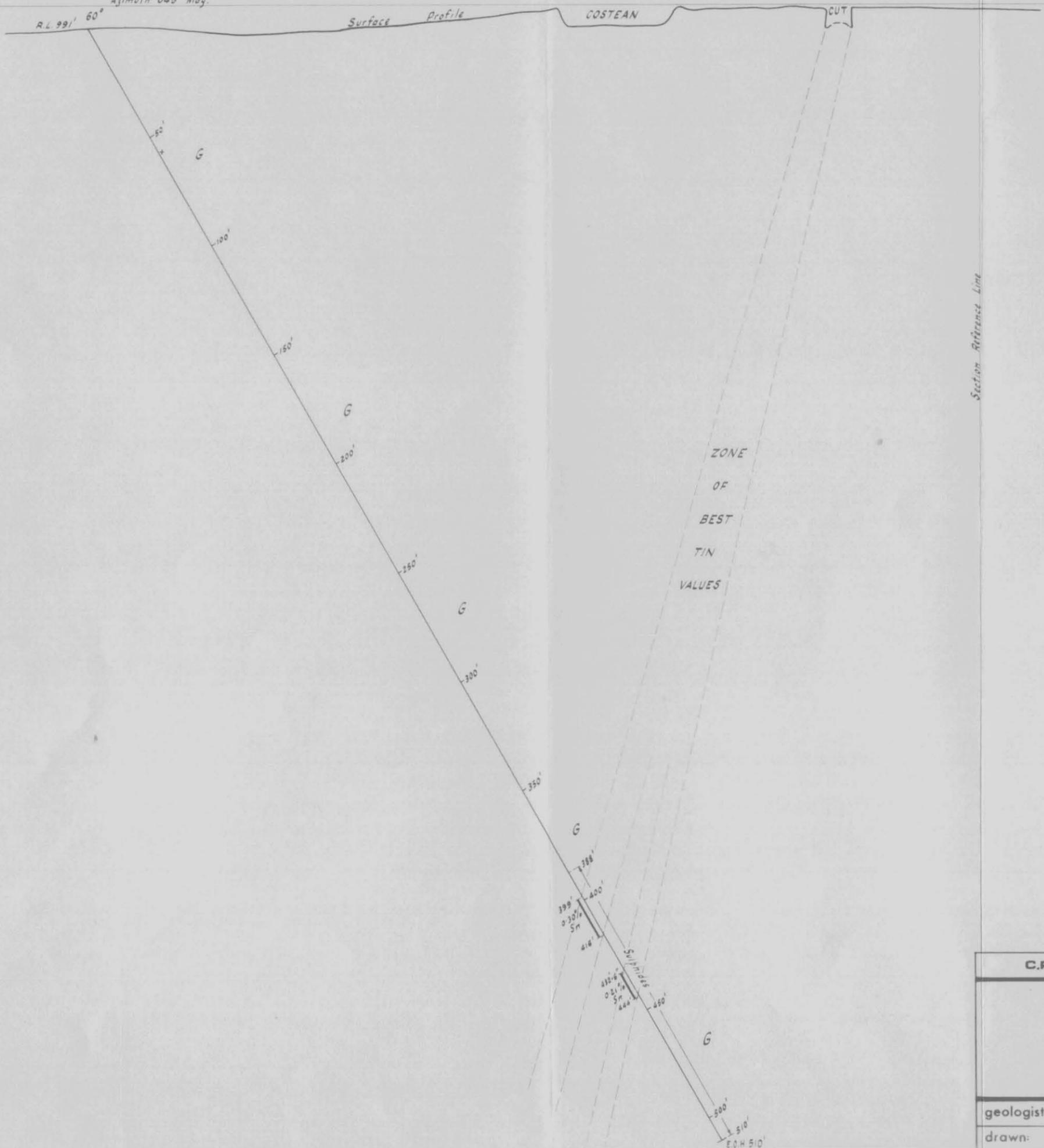
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CCC 12 Azimuth 045° Mag.

124056 R.L. 1000'

S.W.

N.E.



LEGEND

- Mineralised fractures or 'greisen' bands
- Altered biotite granite with tourmaline
- 'Greisenised' zone or occasional 'greisen' bands within the granite

055

<b>C.R.A. EXPLORATION PTY. LIMITED</b>		
E.L. 7/78 - N.E. TASMANIA		
ROYAL GEORGE MINE		
DRILL SECTION CCC 12		
LOOKING N.W.		
geologist: J.G.R.	scale: 1:500	report no: 9786
drawn: T.G.D.S.	date: August 1979	plan no: Tc163

S.W.

CCC 13

Asimuth 045° Mag.

R.L. 1020' 60°

CCC 8

R.L. 1036'

60°

Asimuth 044° Mag.

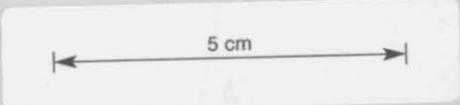
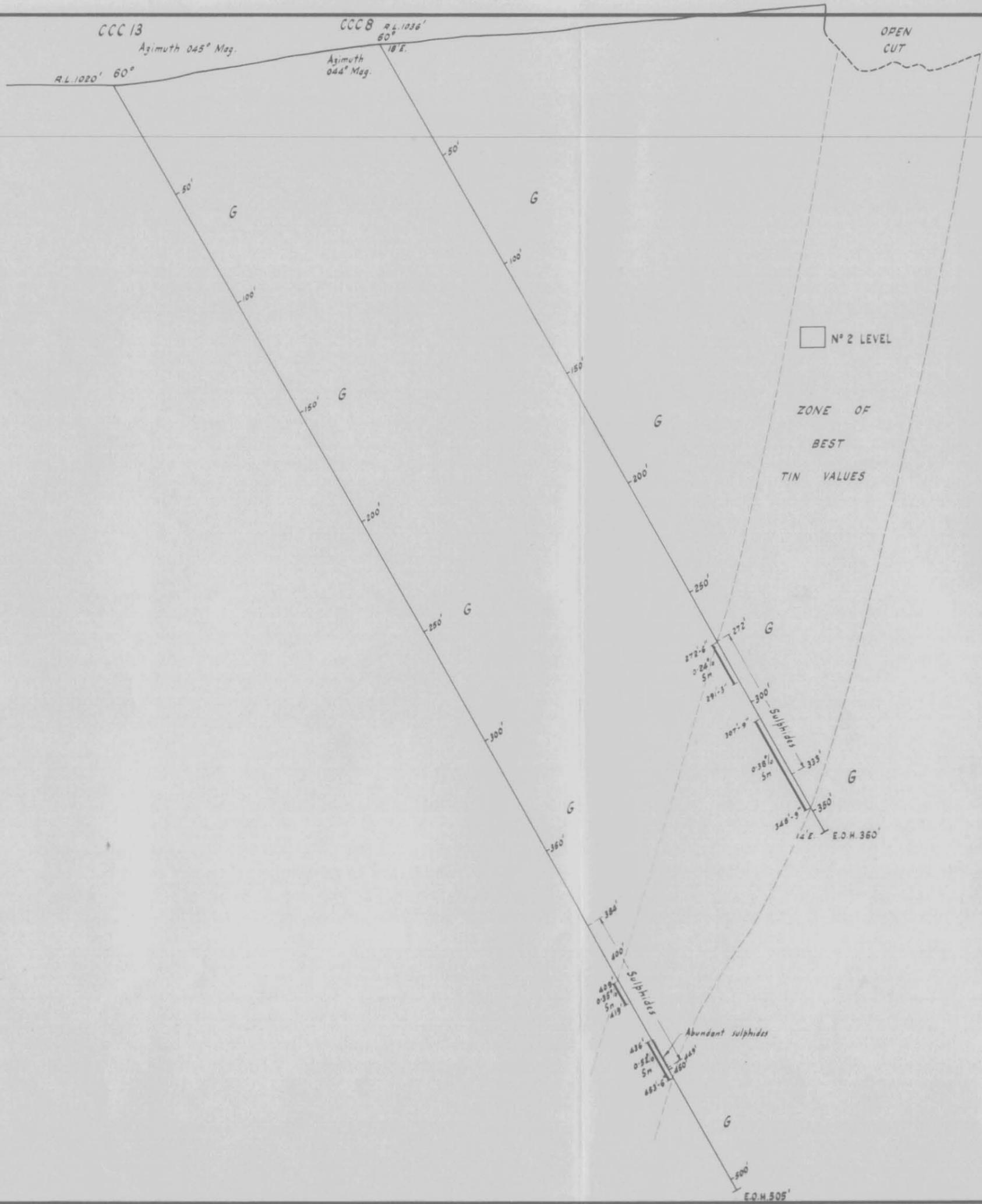
18 E.

OPEN CUT

124057

N.E.

R.L. 1000'

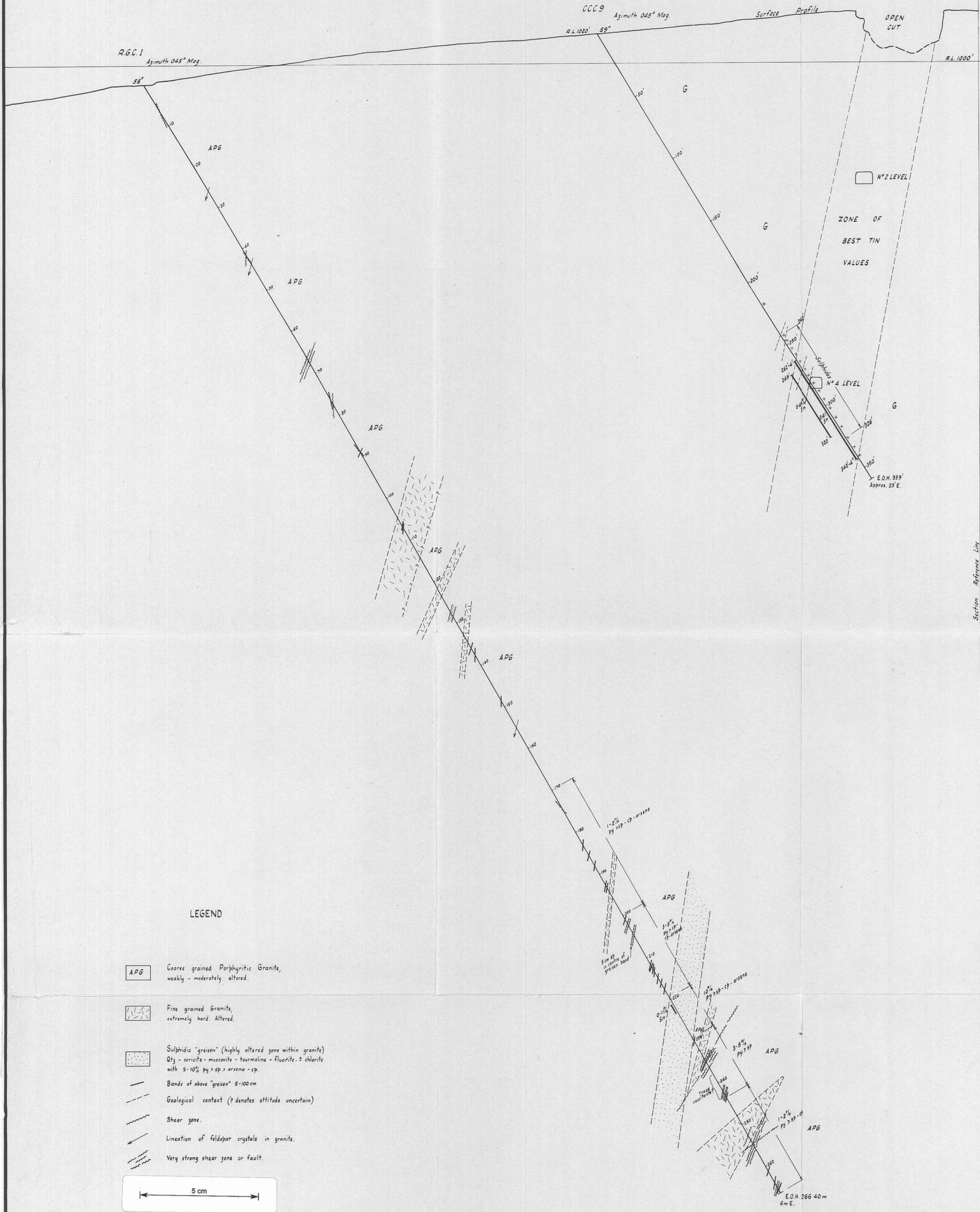


LEGEND

-  Mineralised fractures or 'greisen' bands
-  Altered biotite granite with tourmaline
-  'Greisenised' zone or occasional 'greisen' bands within the granite

056

C.R.A. EXPLORATION PTY. LIMITED		
E.L. 7/78 - N.E. TASMANIA		
ROYAL GEORGE MINE		
DRILL SECTION CCC 8 & 13		
LOOKING N.W.		
geologist: J.G.P.	scale: 1:500	report no: 9786
drawn: T.G.D.S.	date: August 1979	plan no: Tc164

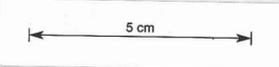


LEGEND

- Mineralised fractures or 'greisen' bands
- G Altered biotite granite with tourmaline
- + 'Greisenised' zone or occasional 'greisen' bands within the granite

LEGEND

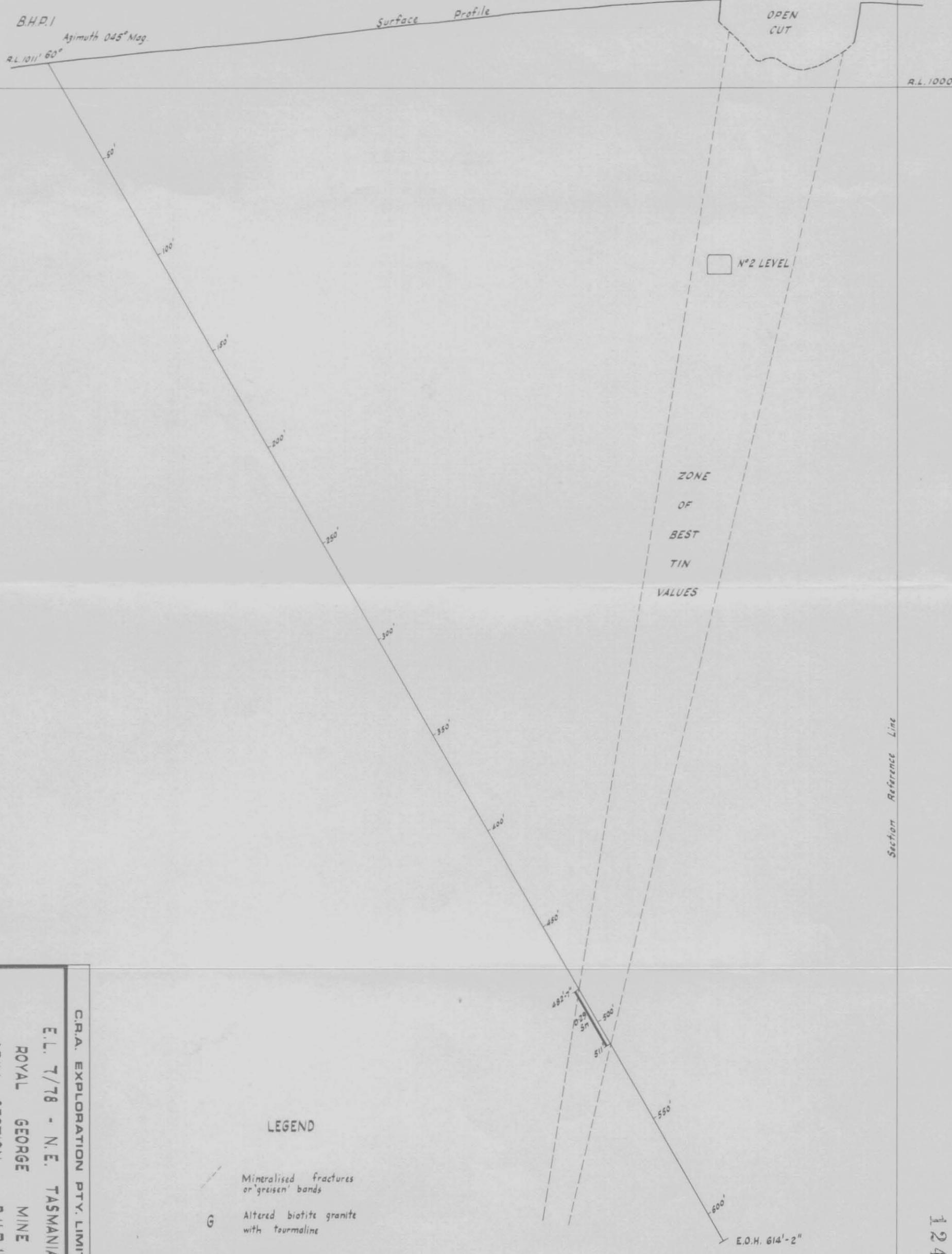
- APG Coarse grained Porphyritic Granite, weakly - moderately altered.
- Fine grained Granite, extremely hard. Altered.
- Sulphidic "greisen" (highly altered zone within granite)  
Qtz - sericite - muscovite - tourmaline - fluorite - chlorite  
with 5-10% py > sp > arseno - cp.
- Bands of above "greisen" 5-100 cm
- Geological contact (? denotes attitude uncertain)
- Shear zone.
- Lineation of feldspar crystals in granite.
- Very strong shear zone or fault.



C.R.A. EXPLORATION PTY. LIMITED			
E.L. 7/78 - N.E. TASMANIA			
ROYAL GEORGE MINE			
DRILL SECTION CCC 9 & R.G.C.1			
LOOKING N.W.			
geologist: J.G.A.	scale: 1:500	report no: 9786	
drawn: T.G.D.S.	date: Oct. 1979	plan no: Tc165	

S.W.

N.E.



B.H.P.1  
 Azimuth 045° Mag.  
 R.L. 1011' 60"

R.L. 1000'

N°2 LEVEL

ZONE  
 OF  
 BEST  
 TIN  
 VALUES

Section Reference Line

LEGEND

- - - Mineralised fractures or 'greisen' bands
- G Altered biotite granite with tourmaline
- + + 'Greisenised' zone or occasional 'greisen' bands within the granite



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E.L. 7/78 - N.E. TASMANIA

ROYAL GEORGE MINE

DRILL SECTION B.H.P.1

LOOKING N.W.

058

geologist: J.G.P.	scale: 1:500	report no: 9786
drawn: T.G.S.	date: Oct. 1979	plan no: Tc166

124059

S.W.

N.E.

B.H.P.2

Azimuth 045° Mag.

R.L. 1004' 60°

R.L. 1000'

OPEN CUT

Nº 2 LEVEL

ZONE OF BEST TIN VALUES

Mines Dept. Assays

A.L.S. Assays

E.O.M. 624'

5 cm

LEGEND

- - - Mineralised fractures or 'greisen' bands
- G Altered biotite granite with tourmaline
- + 'Greisenized' zone or occasional 'greisen' bands within the granite

059

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E.L. 7/78 - N.E. TASMANIA

ROYAL GEORGE MINE

DRILL SECTION B.H.P.2

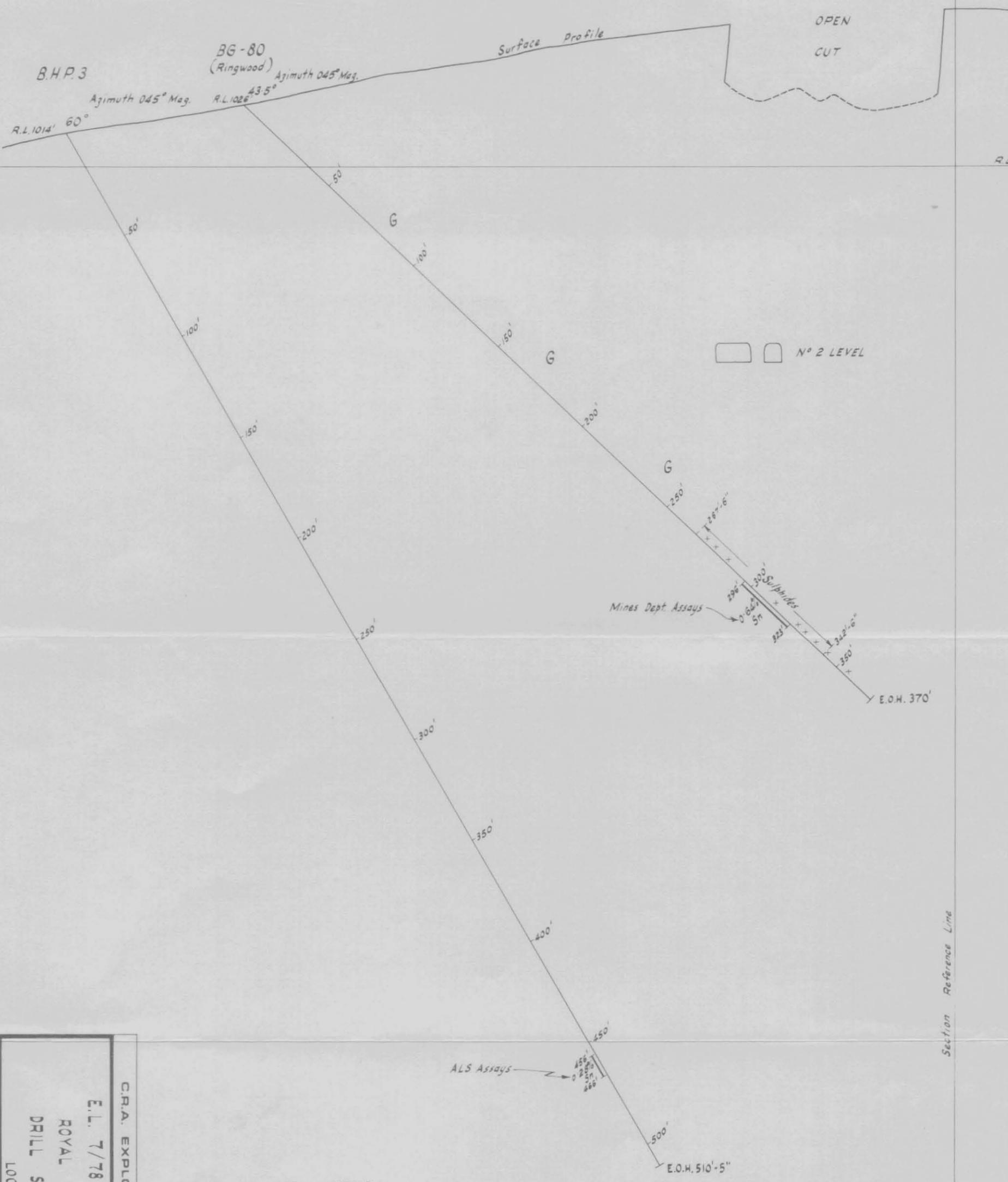
LOOKING N.W.

geologist: J.G.P.	scale: 1:500	report no: 9786
drawn: T.G.O.S.	date: Oct. 1979	plan no: Tc167

124060

S.W.

N.E.



R.L. 1000'

□ □ N° 2 LEVEL

Section Reference Line

LEGEND

- Mineralised fractures or 'greisen' bands
- G Altered biotite granite with tourmaline
- + 'Greisenised' zone or occasional 'greisen' bands within the granite



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E.L. 7/78 - N.E. TASMANIA

ROYAL GEORGE MINE

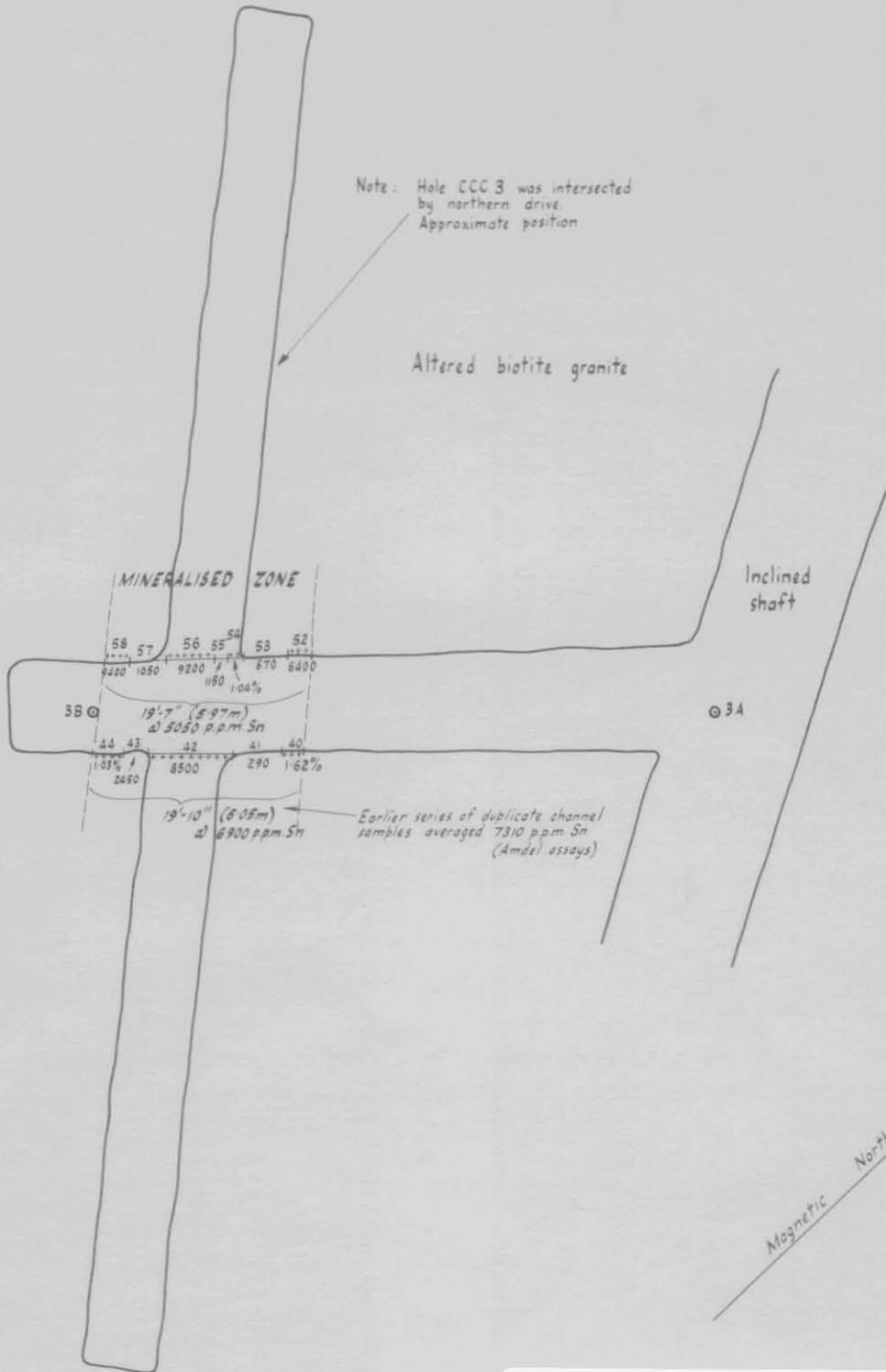
DRILL SECTION B.H.P.3

LOOKING N.W.

060

geologist: J.G.P.	scale: 1:500	report no: 9786
drawn: T.A.S.	date: Oct 1979	plan no: Tc168

124061



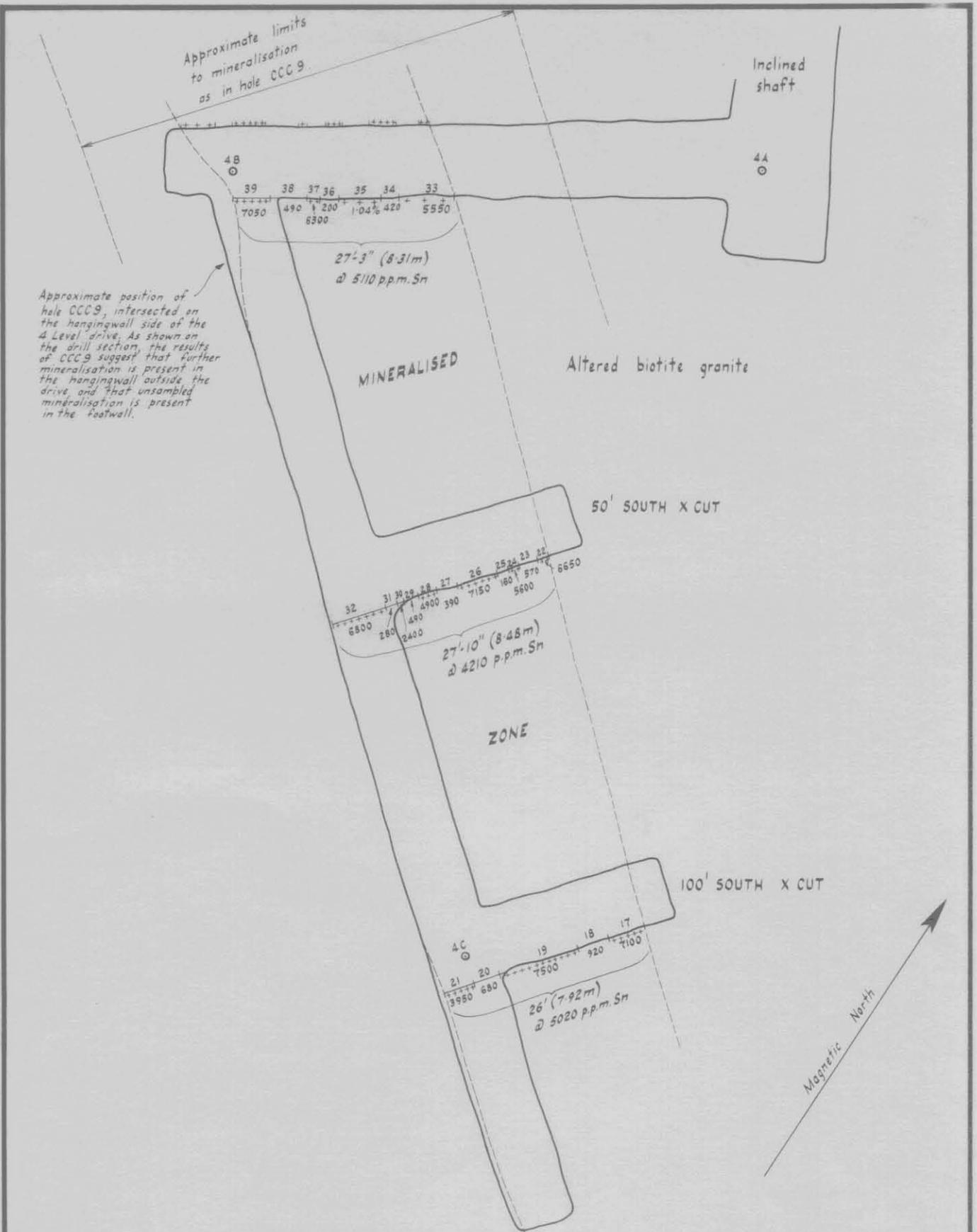
5 cm

061

Legend

- +++++ Strongly sulphidic "greisen"
- + + + Moderately "greisenised" sulphidic granite
- 38 C.R.A.E. sample no prefixed T950
- Channel sample
- 7050 Tin value in p.p.m. (Assays by Amdel)
- ⊙ 3A Survey point

C.R.A. EXPLORATION PTY. LIMITED		
E.L. 7/78 - N.E. TASMANIA		
ROYAL GEORGE MINE		
SAMPLING PLAN - 3 LEVEL		
geologist: J.G.P.	scale: 1:200	report no: 9786
drawn: T.G.D.S.	date: Oct. 1979	plan no: Tc169



Approximate position of hole CCC9, intersected on the hangingwall side of the 4 Level drive. As shown on the drill section, the results of CCC9 suggest that further mineralisation is present in the hangingwall outside the drive and that unsampled mineralisation is present in the footwall.

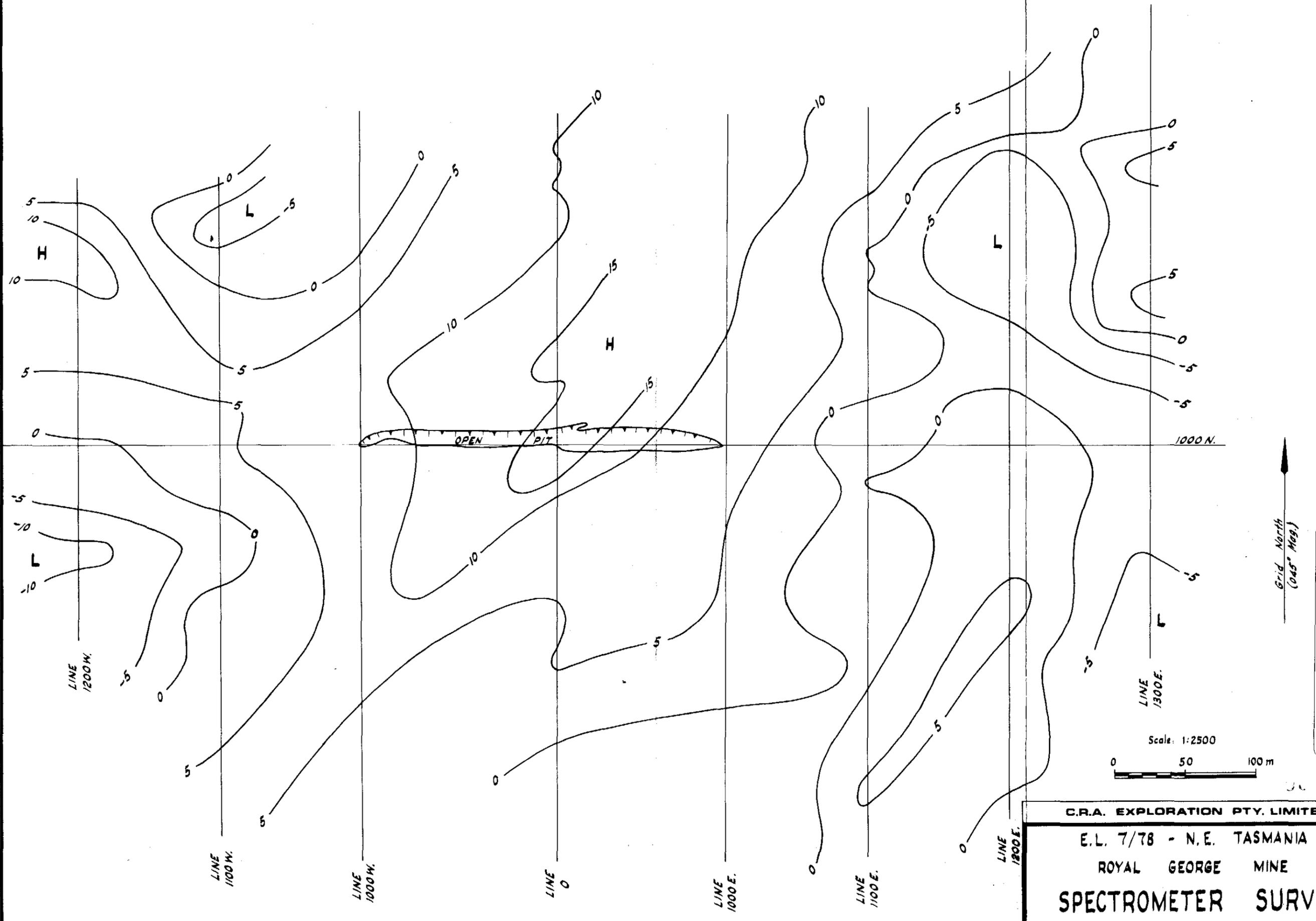
**Legend**

- +++++ Strongly sulphidic "greisen"
- +++ Moderately "greisenised" sulphidic granite
- 39 C.R.A.E. sample no prefixed 7950
- Channel sample
- 7050 Tin value in ppm. (Assays by Amdel)
- Survey point



124063 062

C.R.A. EXPLORATION PTY. LIMITED		
E.L. 7/78 - N.E. TASMANIA		
ROYAL GEORGE MINE		
SAMPLING PLAN - 4 LEVEL		
geologist: J.G.P.	scale: 1:200	report no: 9786
drawn: T.G.D.S.	date: Oct. 1979	plan no: Tc170



5 ————— Broadband \*c.p.s. -30"

063

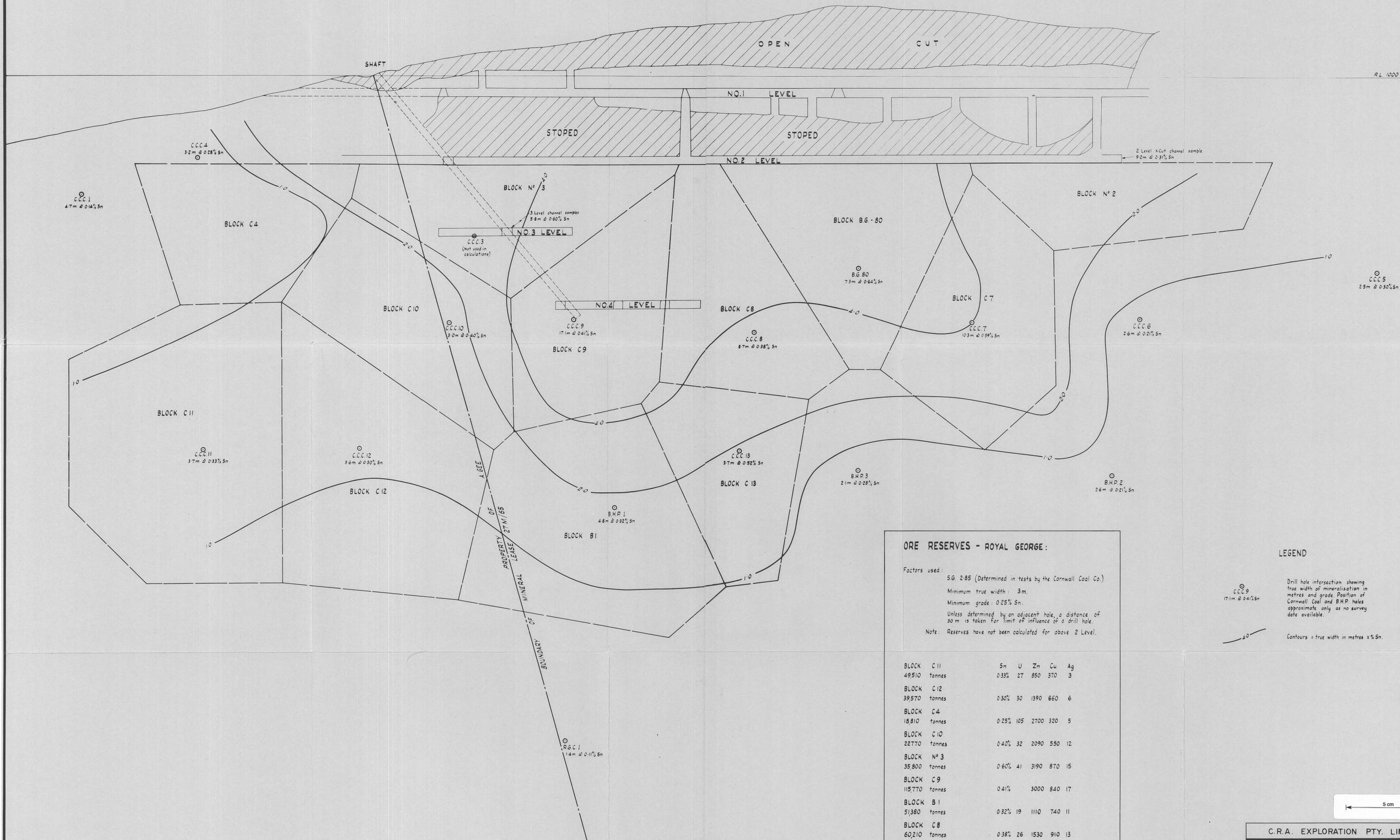
C.R.A. EXPLORATION PTY. LIMITED

E.L. 7/78 - N.E. TASMANIA

ROYAL GEORGE MINE

**SPECTROMETER SURVEY**

geologist: J.B.R.	scale: 1:2500	report no: 9786
drawn: T.G.D.S.	date: Oct. 1979	plan no: Tc171



**ORE RESERVES - ROYAL GEORGE:**

Factors used:  
 SG: 2.85 (Determined in tests by the Cornwall Coal Co.)  
 Minimum true width: 3m.  
 Minimum grade: 0.25% Sn.  
 Unless determined by an adjacent hole, a distance of 30m is taken for limit of influence of a drill hole.  
 Note: Reserves have not been calculated for above 2 Level.

**LEGEND**

○ C.C.C. 9  
 17.1m @ 0.41% Sn

— 4.0 —  
 Contours = true width in metres x % Sn.

BLOCK	tonnes	Sn	U	Zn	Cu	Ag
BLOCK C11	49,510	0.35%	27	850	370	3
BLOCK C12	39,570	0.30%	30	1390	660	6
BLOCK C4	18,810	0.25%	105	2700	320	5
BLOCK C10	22,770	0.40%	32	2090	550	12
BLOCK N° 3	35,800	0.60%	41	3190	870	15
BLOCK C9	115,770	0.41%		3000	840	17
BLOCK B1	51,380	0.32%	19	1110	740	11
BLOCK C8	60,210	0.38%	26	1530	910	13
BLOCK C13	20,290	0.52%	24	1640	1250	22
BLOCK B6-80	54,500	0.64%				
BLOCK C7	76,760	0.39%	23	2570	530	10
BLOCK N° 2	45,190	0.31%	56	2450	940	8
<b>TOTAL</b>	<b>590,560</b>	<b>0.41%</b>	<b>33</b>	<b>2140</b>	<b>730</b>	<b>12</b>

C.R.A. EXPLORATION PTY. LIMITED

**ROYAL GEORGE TIN MINE**

**ORE RESERVES**

LONGITUDINAL SECTION ALONG PLANE OF LODE

LOOKING NORTH - EAST

geologist: J. G. P. scale: 1:500 report no: 9786  
 drawn: T. G. D. S. date: Oct. 1979 plan no: Tc.172

Based on survey plan of Cornwall Coal Co. drawn July 1972