SPECTRUM RESOURCES AUSTRALIA PTY. LTD.

E.L. 5/88

ROYAL GEORGE AREA

EASTERN TASMANIA

REPORT FOR PERIOD ENDING 30 MARCH, 1990

AMG REFERENCE POINTS ADDED

By: L.A. Newnham
30 April, 1990

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1. SUMMARY

A program of four cored drill holes was completed on E.L. 5/88 in 1989 by Spectrum Resources Australia Pty. Limited.

The object of the program was to confirm a previously indicated tin resource beneath the former Royal George mine. Holes were specially designed so as to maximise core recovery.

Results indicate that a resource of approximately 300,000 tonnes of sulfidic greisen averaging 0.4-0.6% tin as cassiterite may exist as a mineable block in a steeply West dipping zone, which possibly plunges to the North-West, to a depth of 100m. beneath the former underground workings.

Scope exists for the development of a larger resource by way of extensions at depth or the inclusion of lower grade mineralisation.

2. GEOGRAPHY:

E.L. 5/88 is located around the small township of Royal George, South of Avoca in Eastern Tasmania. (See Fig.1)

The area is readily accessible by sealed road from Avoca or dirt road from Bicheno. A network of good quality minor dirt roads exists within the E.L.

Rainfall is low (approx, 600mm. p.a.) and falls mainly in Winter. Grazing properties cover most of the area, with the balance being lightly timbered unoccupied Crown Land and Crown Leasehold.

Considerable surface disturbance South of Royal George as a result of previous mining operations, occurs in the form of a substantial open-cut, waste dumps and tailings dams. Because the mineralisation is weakly sulfidic, revegetation has been slow.

3. LAND TENURE:

E.L. 5/88 of 6 square kms. is held by Spectrum Resources of Australia Pty. Limited and is current to the 11th July, 1990. A Performance Bond of $6,000 and a Private Land Bond of $4,000 are held by the Department of Mines with respect to the E.L.

The Licence covers both Crown land and Private land. The latter is largely comprised of the Property "Royslea" owned by Mr. Alexander Gee and managed by Mr. R. and Mrs. A. Gee. The Crown land is both unoccupied Crown land and leasehold Crown land. (leasee Mr. R. Gee).

The Crown land - Royslea boundary cut through the Northern end of the Royal George deposit, and if the deposit has a North-West plunge, it plunges to an increasing degree onto Mr. Gee's property at depth. Because "Royslea" was granted prior to 1893, legal opinion confirms that the owner of "Royslea" has mineral rights except for royal minerals (gold and silver), and therefore minerals could not be removed from the property without the agreement of the owner.

The vacant Crown land - leased Crown land boundary passes East-West through the southern end of the Royal George open-cut.

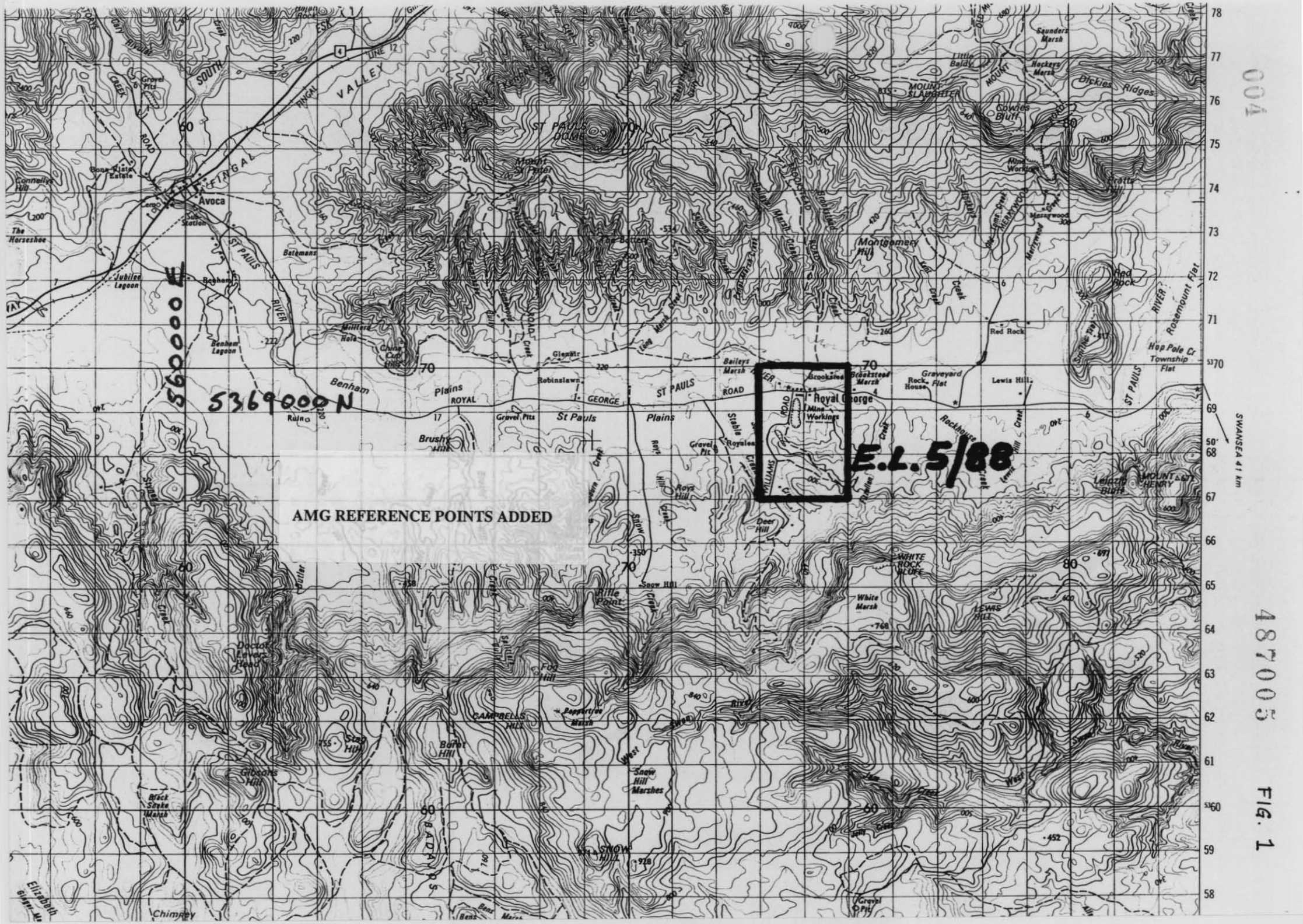

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FIG. 1

4. PREVIOUS WORK:

A large volume of data on the mining and exploration activites in the Royal George area exists in the public domain. A summary only follows, together with the writers comments on this work.

The Royal George deposit was mined for tin from 1911-1922, and production has been quoted as 170,000 tonnes 0.65 tin.

In addition to a shallow open-cut which stretched along a prominent N.W. trending ridge for a total strike length of 250m., the sulfidic stanniferous greisen zone was developed underground on four levels off an inclined shaft. Most production came from levels 1 and 2. The deepest level (L4) is 80 vertical metres beneath surface.

The deposit dips S.W. at approximately 70° and if the above production figure is accepted, then the 0.65% tin production grade must have been achieved from stoping widths of approximately 5-6m. overall.

The ore was treated in a mill to the N.E. of the open-cut. Due to the sulfidic nature of the ore, it was roasted in order to achieve modest cassiterite recoveries. Tails were empounded in an area lying between the mill and the Royal George township.

Following the discovery at Royal George of the secondary uranium mineral "torbenite" during the uranium boom of the 1950's, one cored hole was drilled between 3 and 4 levels approx. 70m. S.E. of those levels. Known as "Ringwood 1", this hole intersected a mineralised greisen zone 6-7m. wide averaging approx. 0.6% tin.

In the late 1950's, BHP drilled three cored holes along the deposit at approx. 100m. below the main No. 2 Level. Results quoted are generally disappointing (0.2-0.3% tin) but are not regarded with confidence because of poor core recoveries, unrepeatable assays, and lack of survey data.

From 1965-1971, the Cornwall Coal Company, with assistance from the Department of Mines, core drilled 12 holes into the deposit and completed extensive underground chip sampling of the main No. 2 level. Cornwalls' drill holes were EX size and drilled at relatively shallow depths. Recoveries were generally very poor through the main greisen zone, hence results are somewhat inconclusive. The channel sampling on No. 2 level was done on the floor. The 20 samples taken averaged 0.75% tin over widths of 1.5-4.0m.

From 1979-1981, in joint venture with CRA, the C.C.C. channel sampled 3 and 4 levels and completed one deep cored drill hole RGC1. Channel sampling on the walls of 3 Level cross-cut gave an arithmetic averaging of 0.65% tin, 0.35% Zinc and 16 g/t silver over a 6m. width. Channel sampling on the walls of 4 level cross-cuts gave an arithmetic average of 0.47% tin, 0.37% Zinc and 15 g/t. silver over an 8m. width. The deep drill hole intersected a weakly stanniferous sulfidic greisen zone 6m. wide, 200m. beneath surface.

5. WORK COMPLETED BY SPECTRUM - 1989:

In order to confirm and better define the resource potential beneath the former workings, Spectrum completed a four hole drilling program between August - October 1989.

5.1. Data Collection and Collation:

Prior to the commencement of this program, the immediate mine area was resurveyed and all previous data including former drill logs was metrificated. The surface surveying was undertaken by Mr. Andrew Macgregor, Licenced Surveyor of St. Helens. He surveyed the lip of the open-cut, the inclined shaft collar and as many of the old drill hole collars as he could find. All of his data was presented on AMG and several AMG reference stations for later survey control were also established.

All former drilling data was metrificated and replotted on AMG plans, sections and projections on scales of 1:500 and 1:1000. Metric base plans were compiled by Tasmanian Geological Drafting Services using CAD techniques. The metrificated drill logs are appended to this report.

The Spectrum drilling program consisted of four holes, spaced at approximately 80m. intervals along strike, and designed to intersect the mineralised zone approx. 30m. beneath No. 2 Level.

Total meterage drilled was 524m.

The drilling was completed by Mr. Wayne How of East Coast Drilling, using a skid mounted Longyear 38 rig. The core was logged by a Consultant, Mr. Mick McKeown.

Because of previous core loss problems at these shallow depths due to the deep weathering in the steep structues on this prominent ridge, it was decided to drill HQ sized holes and HQ tripple tube through the main mineralised zones. Core recoveries resulting from this policy were excellent, with the exception of one interval in S2.

Drill hole collars were surveyed by Macgregor on AMG and down hole surveys were completed at 30m. intervals by Eastman Camera.

All core was logged and photographed. Mineralised intervals were sawn and half core submitted to the Mines Department Laboratories in Launceston for assay. All split and unsplit core is currently stored in galvabond coretrays at the Anchor Mine.

Initial assaying was for tin only and was by XRF.

Zones regarded as generally tin anomalous were further assayed for Cu, Pb, Zn, As, S, Ag, Sb, Bi, Cd, and U.

Pulverised and crushed rejects from this assaying are currently held at the Mines Department in Launceston.

5.2 Environmental Considerations:

All drill collars were sited on the sparsely treed, poorly grassed ridge which hosts the deposit. The northern most site (S1) was on the "Royslea" property and the southern most site (S4) was on Crown land leased by Mr. Gee. The other two sites were on unoccupied Crown Land.

All collars were sited in detail so as to avoid large trees and minimise surface disturbance. They were established with an excavator and the rig was moved by excavator.

In order to prevent return water run-off and to confine drilling fluids to the site, two sumps were dug by excavator adjacent to each site. Water was initially obtained from the underground workings viz. standing water in the inclined shaft and the No. 1 Level Tunnel access, both of which were re-opened for this purpose. When this source dried up, water was obtained from a small dam on the creek immediately West of the mine on "Royslea". This dam was enlarged slightly by excavator, with the kind permission of Mr. Gee.

Upon completion of the program, all materials and rubbish were removed from the sites. Sumps were backfilled and sites reprofiled by excavator. Fertiliser and grass seed were then applied to the disturbed areas.

5.3 Drilling Results:

The results of the program accompany this report in the form of drill logs, core photos, 1.500 plan, longitudinal projection and four sections.

The major results are summarised below:

Hole	D.T. (m.)	E.T.T. (m.)	Sn	Cu	Pb	Zn %	As	S	Ag	Sb	Bi g/t	Cd	U
S1	2.4	2.0	0.47	0.09	0.09	0.31	0.19	2.5	23	14	36	72	41
S2	11.5	10.0	0.46	0.07	0.03	0.42	0.24	2.6	19	15	40	71	26
S3	8.2	7.1	0.59	0.11	0.03	0.37	0.5	3.7	27	19	69	46	65
S4	8.8	7.1	0.12	<0.01	<0.01	0.10	<0.01	0.4	<12	<10	<5	16	28

In summary, the mineralisation occurs in an 8-12m. wide N.W. trending greisenised strucutal zone which transects several granite types, including coarse porphyritic granite, feldspar porphyry granite, microgranites and pegmatitic types.

The main zone varies in strength of greisenisation and mineralisation but is otherwise, remarkably persistent in strike, width and dip over the now drilled 300m. of strike and 200m. of depth.

In the central section, in the vicinity of S2 and S3, the zone is represented by an 8-10m. dark gray zone of almost continuous greisenisation accommpanied by significant sulfides (pyrite, chalcopyrite, sphalerite and arsenopyrite) and visible cassiterite. Tourmaline is pervasive.

North and South, and apparently down dip of this main central section, the zone persists but consists of a collection of narrower classic greisen veins, often with quartz centres and micaceous - tourmaline rich borders. Most of the cassiterite and sulfides is present in these veins.
Hence in a hole such as S1, the zone of greisenised veins is still about 12m. wide, but the widest vein for practical mining considerations is only 2.0m. wide.

Greisen veins are not confined to this main mineralised zone, and narrow dark gray greisen veins are not infrequent in all granite types well away from the main zone. Observations in drill core of greisen vein orientation suggest most veins have a persistent N.W. trend but occassionally small veins cross-cutting this general direction were noted.

6. PROJECT DISCUSSION:

Past mining history combined with core drilling results, suggests there is a modest tin resource present at Royal George which may have a future commercial value as a medium sized mining operation.

Various attempts have been made to quantify the resource and these are listed below together with the writer's estimate of a resource potential based on the current drilling limits:

Mines Department 1970:		160,000 tonnes 0.61% tin
C.R.A. 1981	:	600,000 - 1,200,000 tonnes 0.3-0.4% tin
Spectrum	:	300,000 tonnes 0.4-0.6% tin

The Spectrum estimate is based on a minimum grade of 0.4% and a grade by width factor of 12. It occurs in a single block approx. 170m. long by 80 metres deep by an average of 7m. horizontal width, and dipping 70 directly beneath the NO. 2 Level. Such a body would contain approx. 3,500 tonnes of ore and 17 tonnes tin per vertical metre.

Using the existing drilling data, it is very difficult to determine the plunge of this main mineralised zone, but there is a reasonable suggestion that it plunges approx. 50 to the N.W. as shown on the longitudinal projection. If this is correct, then potential exists down dip in that direction for the development of a further resource.

The steep dip, relatively good ground conditions and reasonable widths combined with the access topographic advantage provided by the sharp ridge combine to suggest that this would not be a difficult deposit to mine with modern trackless equipment.

No recent mineralogical, petrological or metallurgical studies have been conducted on drill core samples. Whilst much of the cassiterite is relatively coarse, there is undoubtedly a proportion of finer cassiterite present and there will be a close cassiterite - sulfide relationship. It could be anticipated that milling and waste disposal costs would be reasonably high.

The resource indicated by drilling and the inferred resource potential indicate that a future mining operation might be feasible on this deposit, but that a sustained tin price substantially above that currently prevailing would be required.

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PROJECT: Royal George

HOLE: Ringwood.

Commenced	
Completed	1955.
Logged by	Ringwood.
Drilled by	

Purpose
To test the central section of the Royal George deposit at shallow depth.

Comments on Completion
No record of recoveries. Probably poor due to shallowness of hole. V assays are generally higher than later CRA ones. Possibly 1955 methodology? (CRA: V ; Ringwood: V_2O_5?)

Northing	Easting	Level	Dip	Bearing	Length
		297.	43.5		112.8

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
Unknown.	

Recovery	
Depth	%

Summary

Depth		Level		Recovery	Description	Assays				
From	To	From	To	%		Length(m)	Sn.	V_2O_5		
90.22	98.19	234.9	229.4	Unknown		7.97	0.64.	Approx 100 p.p.m.		
65.2	71.2					[E.T.T. 7.0m]				

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Project: ROYAL GEORGE   Hole: RINGWOOD   Page: 1.

From	To	Rec (m)	Rec (%)	Description	Structural
0	74.2			Tourmaline granite and kaolinised qtz. porphyry	
74.2	80.77			Qtz. porphyry, some tourmaline, felspars kaolinised, oxidised, sheared	Strongly sheared in places.
80.77	81.53			As above but silicified	Strongly sheared
81.53.	81.99			Quartz with abundant galena and pyrite, oxidised and leached to some extent.	
81.99	83.82			Kaolinised, aplitic granite with minor greisen and sulfides	
83.82	85.04			Quartz porphyry, altered, greisen and minor sulfides.	
85.04	86.56			Quartz and sulfides, some leaching; some kaolinised granite	
86.56	88.24			Mica Greisen, oxidised	
88.24	93.57			Quartz and sulfides; leached in parts	
93.57	95.40			Kaolinised porphyry with minor greisen; 30cms. qtz. and sulfides.	
95.40	98.45			Quartz and sulfide.	
98.45	101.35			Granite with zones of kaolinisation and greisenisation	Oxidised and altered
101.35	102.87			Granite, often fresh; Few greisen veins	
102.87	104.39			Mica greisen with minor sulfides	Well oxidised.

Assays (Sn% — Tas. Mines Dept? ; U ppm — BMR?)

From	To	Sn%	U ppm			
0	73.2	NOT SAMPLED				
73.2	74.2	Tr.	12			
74.2	75.89	Nil	43.			
75.89	77.72	Nil	57			
77.72	79.25	Nil	120			
79.25	80.77	Nil	49.			
80.77	81.53	Nil	58			
81.53	81.99	0.58	190			
81.99	83.82	Nil	140			
83.82	85.04	Nil	98			
85.04	86.56	Tr	100			
86.56	88.24	Nil	70			
88.24	90.22	0.11	61			
90.22.	92.05	0.67	110.			
92.05	93.57	0.64	40.			
93.57	95.40	Tr	130			
95.40	96.32	0.89	175.			
96.32	98.45	1.00	76			
98.45	99.36	Tr.	130.			
99.36	101.35	Nil	180			
101.35	102.87	Nil	77			
102.87	104.39	0.16	150			

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Project: ROYAL GEORGE Hole: RINGWOOD Page: 2

From	To	Rec (m)	Rec (%)	Description	Structural
104.39	106.68			Granite with minor greisen veins	
106.68	107.90			Altered granite	
107.90	108.51			Greisen rubble.	
108.51	112.78			Granite.	
				END OF HOLE	

Assays						
From	To	Sn%	U ppm			
104.39	106.68	0.25	86			
106.68	107.90	Nil	50			
107.90	108.51	Nil	80			
108.51	112.78	Tr.	50.			

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PROJECT: ROYAL GEORGE

HOLE: BHP 1

Commenced	May 1957
Completed	
Logged by	N. McLAREN
Drilled by	BHP.

Purpose
To test the northern section of the main Royal George lode at depth.

Comments on Completion
According to CRA "Log", recoveries through mineralised zone look good. No recovery data at time of drilling available.

All collar data approx. only.

Northing	Easting	Level	Dip	Bearing	Length
8,292	3,417	292	−60	060	188.4 m.

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
All. AX	30mm. core

Recovery	
Depth	%

No data available.

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Summary

	Depth		Level		Recovery	Description	Assays				
	From	To	From	To	%		Length(m)	Sn	U	Zn.	Cu
CRA ⇒	147.10	155.76	164.6	157.1		One 1.7m. interval approx. 1.0% Remainder 0.1–0.2.	8.66 [E.T.T 6.6m]	0.29	20	0.11	0.06.
BHP (Mines Dept.) ⇒	147.10	155.76	164.6.	157.1.		Incl. 1.7m. interval approx 1.6%.		0.49			
	73.6 140	77.9. 157				Tin Anomalous unit, generally > 0.1%.	17m [E.T.T. 13m]				

BHP assays ½ AX core
CRA assays ¼ AX core.
Core at Mines Dept. Hob.

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: BHP 1 Page: 1

From	To	Rec (m)	Rec (%)	Description	Structural
				Mines Dept. Assays for BHP.	
				147.10 – 148.82 : 1.62% Sn.	
				148.82 – 150.65 : Tr.	
				150.65 – 153.62 : 0.32	
				153.62 – 153.92 : 0.47.	
				153.92 – 154.89 : Nil	
				154.89 – 155.76 : 0.30	
				8.66m.	0.49.

Assays									
From	To	Sn	Sn	U	W	Pb	Zn	Cu	As
		BHP/ Mines Dept							
0	122.3	Nil	NOT SAMPLED.						
122.3	125.35	Nil	115	24			380	20	
125.35	127.56	Tr.	225	12			1400	120	8
127.56	129.92	Tr	100	16			220	20	<4
129.92	131.37	Tr	70	16			140	15	<4
131.37	132.74	Tr.	135	16			270	30	4
132.74	134.57	Tr	690	33			420	140	8
134.57	137.54	Tr	175	28			210	20	<4
137.54	140.28	Tr	900	20			720	55	4
140.28	142.19		1830	<4			1000	600	16
Fuel. 140.28	140.51	4500							
142.19	143.71	Tr.	590	<4			400	135	2
143.71	145.27	Tr.	710	<4			480	290	2
145.27	147.10	4000	1185	4			900	400	3
147.10	148.82	1.62%	0.91%	16			1500	880	17
148.82	150.65	Tr	1375	16			1000	155	3
150.65	152.86		975	16			860	1300	14
152.86	153.92		1740	36			1200	380	8
153.92	155.76		1505	24			1200	180	5
155.76	157.43		1005	20			580	440	7
157.43	159.29	Tr	535	28			460	40	<4
159.29	162.08	Tr	615	16			420	370	3
162.08	164.89	Tr.	220	24			240	35	<4
164.89	166.73		710	20			960	65	4
Fuel 164.89	165.20	2900							
165.20	168.59	Tr	230	20			280	30	<4
168.59	171.30		2100	20			2000	110	4
Fuel 169.07	169.79	2700.							
169.79	174.35	Nil	50	20			340	30	<4
174.35	176.33	Nil	985	28			500	25	4
176.33	178.61	Nil	355	24			700	30	4
178.61	180.44	Tr	605	20			400	20	<4
180.44	182.88	Nil	65	20			210	30	<4

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Project: ROYAL GEORGE Hole: BHP 1 Page: 2.

From	To	Rec (m)	Rec (%)	Description	Structural

Assays									
						CRA			
From	To	Sn (BHP Minerals Dept.)	Sn	U	W	Pb	Zn	Cu	Ag
182.88	185.32	Nil	125	24			230	20	<1
185.32	187.20	Tr	130	24			700	40	1

48/1013

48701

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: ROYAL GEORGE

HOLE: BHP 2

Commenced	
Completed	July 1957.
Logged by	N. McLAREN
Drilled by	BHP.

Purpose
Testing the southern section of the main Royal George lode at moderate depth.

Comments on Completion
No log is available. Core recoveries not available. When CRA re-sampled core, the core through the interval BHP assayed was missing.

Northing	Easting	Level	Dip	Bearing	Length
		289	−60°		190.2

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
All	AX:
	30m.m.

Recovery	
Depth	%

Summary

Depth		Level		Recovery	Description	Assays				
From	To	From	To	%		Length(m)	Sn.			
136.86	140.51	170.5.	167.3.	Unknown		3.65	0.21.			
68.4	70.3					[ETT. 2.8m]				
182.88	184.71			50	Only 50% core (AX ¼) remaining.	1.83	0.22.			
						[ETT 1.40m.]				

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: BHP 2 Page: 1

From	To	Rec (m)	Rec (%)	Description	Structural

Assays

From	To	Sn%	SnCRA	U	Zn	Cu	Ag
0	79.48	NOT SAMPLED.					
79.48	79.88	Nil.					
79.88	135.86	NOT SAMPLED.					
135.86	136.09	0.11					
136.09	136.86	0.08					
136.86	138.07	0.22					
138.07	138.84	0.37					
138.84	139.60	0.11					
139.60	140.51	0.14					
140.51	184.10	NOT SAMPLED					
184.10	190.20	Tr.					
182.88	184.71		0.32	24	1300	270	5.

Only 0.9 m. ⇒ ½ AX core available for assay

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: Royal George

HOLE: BHP 3

Commenced	
Completed	SEP 57
Logged by	N. McLAREN
Drilled by	BHP.

Purpose
To test the central section of the Royal George lode at moderate depth.

Comments on Completion
No log available. Core recoveries unknown. Generally very poor mineralisation which is unusual in this central section.

Northing	Easting	Level	Dip	Bearing	Length
		293.3.	−60		155.6 ← Possibly longer. (190?)

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
All	AX (30mm core).

Recovery	
Depth	%

Summary

	Depth From	Depth To	Level From	Level To	Recovery %	Description	Assays Length(m)	Assays Sn.			
B.H.P.	139.11	142.44	172.8	169.9	Unknown	Half AX Core.	3.33	0.27			
	62.5	71.2					E.T.T. 2.5m				
CRA.	138.99	142.04			85%	Quartered AX core	3.05.	0.28			
							E.T.T. 0.22				

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: Royal George Hole: BHP 3 Page: 1

From	To	Rec (m)	Rec (%)	Description	Structural
					3.33m. 0.27Sn. (139.11–155.57); Mines Dept. Assays for BHP. on Half AX core.
					3.05m 0.28 (138.99–155.57); CRA (ALS) assays

Assays						
From	To	Sn.	V	Zn	Cu (ppm)	Ag. (ppm)
139.11	139.22	0.2				
139.22	139.39	Tr.				
139.39	140.00	0.97				
140.00	140.62	Tr				
140.62	141.53	0.16				
141.53	142.44	0.10				
142.44	143.36	Tr.				
143.36	144.27	Tr.				
144.27	145.66	Tr.				
145.66	145.82	0.31				
145.82	146.76	Tr.				
146.76	148.86	Tr.				
148.86	149.76	0.17				
149.76	154.84	Tr.				
154.84	155.57	0.11				
138.99	140.51	0.29	16	2200	140	3.
140.51	142.04	0.28	20	580	420	10.
142.04	144.48	0.03	32	960	2800	70.
144.48	146.76	0.07	28	1600	1000	12.
146.76	147.68	<0.01	20	840	20	1
147.68	150.27	0.07	24	1100	90	2.
150.27	152.86	0.05	28	420	50	<1.
152.86	155.57	0.07	24	400	400	3.

020 4870

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: ROYAL GEORGE

HOLE: CCC 1

Commenced	24 Jan 66.
Completed	Feb.? 1966
Logged by	G. Urquhart
Drilled by	Mines Dept.

Purpose
To test Northern extension of Royal George lodes at shallow depths.

Comments on Completion
The best assays appear to be in the H.W. of what was logged as the main lode, but this may simply be a reflection of poor recoveries.

Northing	Easting	Level	Dip	Bearing	Length
8,470	3,412	273.5	-60	57°	43.8

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
	EX ?

Recovery	
Depth	%

Summary

Depth From	Depth To	Level From	Level To	Recovery %	Description	Assays Length(m)	Sn	U	W	Pb
19.4	26.1	256.7	250.9	40 (Approx.)	Best assayed intersection	6.7	1360	28	20.	1700

C.R.A.

Zn	Cu.	Ag.	p.p.m.
3700	600	56*	

* Weighted by one high assay.

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

021

Project: ROYAL GEORGE Hole: CCC1 Page: 1

From	To	Rec (m)	Rec (%)	Description	Structural
0	3.05	0.36	12.	0–1.5m: 15cm. broken core; coarse grained porphyritic granite, slightly greisenised in places. Cassiterite very sparse. Torbanite spangles at 1.5m.	broken
3.05	7.62	1.04	23.		
7.62	11.6	0.71	18	1.5–3.05: 24 cms. core Partly greisenised coarse grained granite. Tourmaline sparse, cassiterite very sparse.	Broken.
				3.05–6.1m: 0.4m. core. Partly greisenised coarse grained granite. Pyrite sporadic. Tourmaline sparse. Tin sparse to sporadic in first 15cms. of core.	Broken.
				6.1–7.62m: 0.45m. core. Partly greisenised coarse grained granite. Tin sporadic first 10 cms. and last 10cms. of core. Pyrite coats fractures. 0.5cm wide arsenopyrite veinlet and tourmaline in top 6 cms. of core.	Broken.
				7.62–9.1m: ±15cms. core; coarse granite	Broken
				9.1–10.0m: 5cms. core; Partly greisenised, tourmalinised, otherwise barren.	Fragmented
				10.0–11.6m.: 30cms. Partly greisenised coarse granite. Tin sparse to sporadic in last 15cms.	Strongly sheared in top 15 cms.
11.6.	14.9	0.6	18	11.6–13.4m: 0.1m. core; Coarse granite; Tin sporadic	Broken and fragmented
				13.4–14.9m. 0.38m. core; Coarse granite; Tin sparse; tourmaline and biotite common.	Broken

Assays Amdel and AAS (p.p.m.)

From	To		Sn (CR.A)	V	W	Pb	Zn	Cu	Ag
0	10.0	Sampled with core grinder	1900	54	130	50	1600	100	3
10.0	18.6	Sampled with core grinder	305	110	140	10	1600	105	1

48-1069

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 1 Page: 2

From	To	Rec (m)	Rec (%)	Description	Structural
14.9	18.6	0.64	17	14.9 – 15.5: 0.45m. core; Coarse biotite granite; Barren, not greisenised	Broken
				15.5 – 18.6: 0.12m. core; Biotite granite. Barren as above.	Fragments.
18.6	21.3	0.99	37	18.6 – 19.3: 0.35m. core; Slightly greisenised coarse granite. Tin sporadic tourmaline sporadic; pyrite sparse.	Broken
				19.3 – 21.3: 0.52 core; Greisenised coarse granite. Tin and tourmaline sporadic. Tourmaline stringers parallel to shearing. Pyrite, chalco, galena sporadically disseminated.	Broken and sheared 40° c.a.
21.3	22.5	0.1	8	21.3 – 22.5: 5cms. core. Greisenised coarse granite. Arsenopyrite, pyrite and marmatite sparse. No tin.	Fragments
22.5	25.3	1.4	51	22.5 – 24.3: 0.3m. core; Greisenised and altered coarse granite; Galena, marmatite, chalco. sporadic to common. Tin sporadic; Green fibrous mineral may be a secondary phosphate.	Broken.
				24.3 – 25.3: Partly greisenised coarse granite; top 0.6m. oxidised. Tourmaline (+ tin?) sporadic to common; no sulfides	
25.3	28.9	2.8	79	25.3 – 26.1: 0.7m. core; Greisen and granite/greisen. Tin sporadic, sulfides sporadic.	Strongly sheared; 43° to c.a.
				26.1 – 29.1 P.T.O.	

Assays — CRA assays.

From	To	Sa.	Sn	V	W	Pb	Zn	Cu	Ag
		(Mineragraphic)							
18.5	19.3	Nil	470	32	<10	370	2400	60	4
19.3	21.3	0.16	1750	28	15	200	4000	320	9
21.3'									
22.5	23.7	Nil	740	24	<10	7400	7700	2100	250
23.7	25.3	Nil	1200	30	40	110	910	100	4
25.3	26.2	Tr.	1600	30	10	530	2900	150	5
26.2	?27.7*	Nil	490	28	10	2100	2700	220	20
?27.7*	29.1	Nil	370	26	<10	430	4700	130	10

* Bottom half way along recovered core interval.

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 1 Page: 3

48702

023

From	To	Rec (m)	Rec (%)	Description	Structural
28.9	32.0	2.97	96.	26.1–29.1: 2.1m. core; greisen, quartz/greisen, and granite/greisen; Probably main ore zone. Pyrite, chalco, galena, marmatite, sporadic – common. Fluorite very sparse. Tourmaline (+tin?) sporadic to common.	Sampled with core grinder
32.0.	36.2	3.5	83.		
36.2.	39.6	3.2	95	29.1 – 43.8 m: Tourmalinised coarse grained biotite granite. Barren.	
39.6.	42.1	1.1	44		
42.1	43.8.	1.5.	95.		

END OF HOLE

Very Sparse = Trace
Sparse = 0.1–0.3%
Sporadic = 0.5%
Common = 1%

Notes:

Some difficulty experienced differentiating between tin and tourmaline in the core.

The core is probably all mineralised to a greater or lesser extent down to a depth of 29.1m. The main greisen (tin bearing) zone however is between 26.1 – 29.1m, but core will doubtless contain tin from a depth of [redacted] 18.6m – 26.1m. as well.

Assays							CRA assays		
From	To		Sn	U	W	Pb	Zn	Cu	Ag
29.1	32.2		250	28	150	30	760	100	1
32.2	36.9		35	14	140	70	420	70	2
36.9	41.4		30	24	110	10	360	50	<1
41.4	43.8		30	26	110	15	240	55	<1.

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: Royal George

HOLE: C.C.C 2.

Commenced	03 May 66.
Completed	11 May 1966.
Logged by	G. Urquhart
Drilled by	Mines Dept.

Purpose
To test main lode. Drilled from No. 2. Level.

Comments on Completion
Hole largely drilled in H.W. of main lode and exhibits decreasing geochem. metal values going down hole (ie) away from mineralisation.

Northing	Easting	Level	Dip	Bearing	Length
8380.0	3,470.0	264.6.	-0	240.0.	26.8

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
	EX?

Recovery	
Depth	%

Summary

Depth		Level		Recovery	Description	Assays				
From	To	From	To	%		Length(m)				

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 2 Page: 1

From	To	Rec (m)	Rec (%)	Description	Structural
0.0.	1.2	0.79	66.		
1.2.	2.7	1.5	56.	All coarse grained	
2.7	4.2	1.4	91	biotite - tourmaline white	
4.2.	7.3	0.5	17	felspar granite.	
7.3	9.4	1.2	≈55.	One greisen zone between 1.6 - 1.9m	
9.4	12.2	1.5	52	consisting of 30 cms. of pyrite,	
12.2	13.7	1.2	83.	arsenopyrite, and sphalerite bearing	
13.7	15.5	1.7	94	quartz - greisen.	
15.5	17.4	1.4.	72.		
17.4	19.8.	2.33	97.		
19.8	21.3	1.50	100.		
21.3	22.9	1.6	100.		
22.9	26.8	3.8	98.		

Assays CRA. Assays (Amdel/ALS)								
From	To	Sn	U	W	Pb	Zn	Cu	Ag
0	7.3	970	28	100	25	780	170	2.
7.3.	12.8	560	80	90	35	900	120	3
12.8	17.3	55	34	90	25	190	65	1
17.3.	21.3	45	32	90	40	290	95	1
21.3	26.8	25	26	110	20	175	85	1

48702
023

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: *ROYAL GEORGE*

HOLE: *CCC 3.*

Commenced	*17 May 66*
Completed	*02 Jun 66*
Logged by	*G. Urquhart.*
Drilled by	*Mines Dept.*

Purpose
Drilled from No. 2 level to test northern section of main lode.

Comments on Completion
Hole drilled down dip, and poor recoveries. Actual results probably approx. 4 m. (horiz.) @ 0.3 %.

Northing	Easting	Level	Dip	Bearing	Length
8,390.0.	*3.487*	*263.4*	*-42*	*221.0.*	*28.9.*

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
	EX ?

Recovery	
Depth	%

Summary

Depth		Level		Recovery	Description	Assays				
From	To	From	To	%		Length(m)	Sn	V	Zn	Cu
18.3.	*25.9*	*251.2*	*246.1*	*Poor. (65%)*	*Best Intersection*	*7.6*	*2855*	*28*	*2310*	*230.*
13.6	*19.2*						*(0.28)*			
						True Width				
						Approx. Am. 3.6				

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 3 Page: 1.

From	To	Rec (m)	Rec (%)	Description	Structural
0.0	1.83	0.88	48.	0–9.11: Coarse grained white feldspar granite.	
1.83	3.4	1.6	100		
3.4	4.8	0.6	58	9.11–10.1: Minor 12cm. wide greisen band.	
4.8	6.1	1.1	86.	10.1–11.9: Coarse grained white felspar granite.	
6.1	8.5	1.6.	66.	11.9–12.2: (0.3 core) Quartz-greisen and quartz-mica greisen. Pyrite, sphalerite, and arsenopyrite present (<2%)	
8.5	10.0	0.2.	16.		
10.0	10.67	0.67	100.		
10.7	12.2	1.1.	73.	12.2–13.7: 0.6m. core recovered. The first 0.4m. is pyr.–asp.–sph. bearing qtz. greisen. The last 0.2m. is coarse grained granite. Thus from 11.9–13.7m, core shows a maximum 0.7m. of sulfidic greisen. A possible max. intersection of 1.6m. if 100% core recovery.	
12.2	13.7	0.6.	40.		
13.7	15.2	1.5	100.		
15.2	16.7	1.5	100		
16.7	17.6	0.25	28.		
17.6	17.9	0.23.	75.		
17.9	18.5	0.07	12.	13.7–16.7m: Coarse grained biotite-tourmaline white granite.	
18.5	19.2	0.33	41		
19.2	20.1	0.35	39.	16.7–17.7m: 0.23m. core recovered. Of which the last 10cms. is pyr.–asp.–bearing greisen. Possible greisen width of 0.78m. if 100% core recovery.	
20.1	21.5	1.2	90		
21.5	22.9	1.5.	94		
23.1	24.4	0.3	23		
24.4				17.7–18.0m. 24 cms of core recovered. First 18cms in sulfide greisen, last 6cms. in coarse grained granite	

Assays — CRA assaying

From	To	Sn	U	W	Pb	Zn	Cu	Ag
0	6.1	25	30	110	10	270	85	<1
6.1	12.2	330	34	130	100	1500	260	4
12.2.	15.2	525	12	40	90	2300	250	8
15.2	18.3	1600	24	30	30	1600	170	3.

48202
021

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC3 Page: 2

From	To	Rec (m)	Rec (%)	Description	Structural
				Thus from 16.7 – 18.0m, a possible max. intersection of 1.05m. of sulfide bearing greisen if 100% core recovered. Actual width of greisen recovered 0.28m.	
				18.0 – 18.6m: 50cms. recovered, consisting of greisenised granite. Sulfides lacking.	Fragmented.
				18.6 – 19.2m: 30cms. recovered. First 10cms. is pyr. + asp. bearing greisen, changing to coarse grained granite. Possible 0.4m. greisen if 100% core recovered.	Broken.
				19.2 – 20.1: 35cms core; Consisting, (except for first 3cms.) of pyr. – arsenop. – sphal. bearing greisen. Thus a possible maximum intersection of 0.88m. of sulfidic greisen if 100% core recovered. Actual greisen width 33cms.	
				20.1 – 21.6: 1.2m. recovered. First 19cms. of pyr. – sphal. – Arsenop. – bearing qtz-greisen vein followed by 58cms. of coarse grained tourmaline granite. Last 45cms. composed of pyr. – sphal. – Arsenop. bearing qtz. greisen	

Assays							C.R.A.		
From	To		Sn	U	W	Pb	Zn	Cu	Ag
18.3	21.6		3400	28	20	70	3100	320	6

CCC3

487029

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 3 Page: 3.

From	To	Rec (m)	Rec (%)	Description	Structural
				21.6 – 24.4: Barren coarse grained granite.	
24.4	25.9	1.25	83.	24.4 – 25.9: Greisen. Recovered 1.25m.	
25.9.	26.3	0.15.	37.	25.9 – 26.3: 15cms. core recovered. Slightly greisenised, slightly pyritised rock.	
26.3	27.7	0.5	36.	26.3 – 27.7: 48cms. core recovered. of which first 17cms. is coarse grained barren granite. Last 31cms. of pyritic greisen.	Thus possible max. width of greisen if 100% recovered is 1.25m. Actual width of greisen = 30cms.
27.7.	28.5	0.15	19	27.7 – 28.9: 30cms. core recovered. Consisting of pyr. – arsenop. – bearing greisen.	Fragmented. Thus possible maximum intersection of greisen if 100% core recovered = 1.2 m. Actual recovered with = 0.3m.
28.5	28.9.	0.12.	30.		

Assays C.R.A.									
From	To	Sn (c.c.c)	Su	U	W	Pb	Zn	Cu	Ag
21.6.	28.9		900	28	10	35	1400	120	3.
		%							
24.4	25.9	0.53							

2 Samples combined but not including 24.4 – 25.9.

030

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: ROYAL GEORGE

HOLE: CCC 4

Commenced	06 JUN 66
Completed	27 JUN 66
Logged by	G. Urquhart.
Drilled by	Mines Dept.

Purpose

To test the northern extension of the main Royal George lode at a shallow depth.

Comments on Completion

Very poor core recoveries through best intersection zones.

Northing	Easting	Level	Dip	Bearing	Length
8,439	3,423	278.3	−60	057	38.1

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
	? EX.

Recovery	
Depth	%

Summary

Depth		Level		Recovery	Description	Assays				
From	To	From	To	%		Length(m)	Sn.	Ug/t	Zn	Cu
13.7	18.2	266.4	262.5	30.	Best Intersection	4.5	0.25	105	22700	0.03.
6.8	9.1									
24.2	28.0	257.3	254.1	38	Best Intersection.	3.8	0.17	45	0.12	0.02
12.1	1[illegible].0									

487031

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 4 Page: 1

From	To	Rec (m)	Rec (%)	Description	Structural
0	7.9	0.53	07	Coarse grained biotite granite; scattered small torbernite specks.	
7.9	9.4	0.35	23	Coarse quartz biotite granite. Slightly greisenised.	
9.4	10.9	0.35	23.	Quartz-mica greisen and altered granite. Minor sphalerite and pyrite Possible maximum width 1.5m.	
10.9	13.7	0.75	27	Coarse quartz-biotite granite	Fragmental core recovery.
13.7	15.2.	0.48	32.	Quartz-greisen, quartz-mica greisen and greisenised coarse quartz granite; Minor disseminated sphalerite	Fractured 45° to C.A. Possible max. width 1.5m.
15.2.	16.7	0.45	30.	Coarse quartz-tourmaline biotite granite.	
16.7	18.2.	0.33	22.	First 20cms. coarse quartz granite; Last 13cms. quartz mica greisen. No sulfides.	Max. possible width of greisen if 100% recovery = 1.30m. Actual width of greisen = 13 cms.
18.2	19.8	0.28	17	Coarse quartz-biotite granite.	
19.8	21.3	0.10	07	Quartz-mica greisen. No sulfides	Fragments only.
21.3.	22.8	0.90	60	First 0.95m. in coarse quartz-biotite granite. Last 10cms. of fragments of quartz-mica greisen; no sulfides.	Max. possible width of greisen if 100% recovery = 0.55m. Actual width of greisen = 0.10m.
22.8	24.3.	0.95	63.	Coarse quartz-biotite-tourmaline granite. Last 10cms. of quartz-mica greisen fragments.	Possible max. width of greisen if 100% recovery = 0.65m. Actual greisen width = 10cms.

Assays (C.R.A. for Sn, U, W, Pb)

Sample	From	To	Sn (c.e.c.)	Sn	U	W	Pb	Zn	Cu.	Ag
	0	9.4		200	75	30	10	450	40	<1
	9.4	10.9	1600	1700	620	20	100	4300	90	1
	10.9	13.7		560	55	10	20	1100	40	<1
Sludge + Core	13.7	15.2	1800.	1930	195			3900	605	7
Sludge→	15.2	16.7	5800	6600	65	180	190	3600	400	10
Core→	15.2	18.2		540	55	<10	30	1200.	50.	<1
Av. Core + Sludge	15.2	18.2		2810	60			2100	180	4
	18.2	21.3.		320	40	30	20	930	30	<1
	21.3.	24.2		420	80	10	20	1100	30	<1

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 4 Page: 2

From	To	Rec (m)	Rec (%)	Description	Structural
24.3	25.9	0.40	27	First 18cms. of quartz - mica greisen. No sulfides Therefore between 22.8 – 25.9m., a possible max. greisen width of 1.95m. if 100% core recovery. Actual greisen width 0.28m.	Close fractures at 43° C.A. Possible max. greisen width 1.25m. Actual greisen width 18cms.
25.9	26.5	0.23	38	Greisenised coarse quartz granite. No sulfides	Fragments, strongly cleaned.
26.5	28.3	0.76	42	Coarse quartz granite, partly greisenised; No sulfides	
28.3	29.5	1.1	93	Coarse quartz granite except for last 10cms. of greisenised granite. No sulfides	Possible max. greisen width of 50 cms. Actual width 10 cms.
29.5	30.1	0.33	55	Coarse quartz granite.	
30.1	31.7	1.43	90	First 42 cms. in coarse quartz granite followed by 50cms quartz - mica - greisen zone, no sulfides. Last 58 cms. in coarse quartz granite	Fractured at 40° to C.A.
31.7	32.6	0.80	89	Coarse quartz – biotite – tourmaline - granite.	
32.6	33.6	0.80	80.	Altered coarse quartz – biotite – tourmaline granite.	
33.6	34.8	0.75	63.	First 12 cms in quartz – mica greisen. Last 62 cms in coarse grained granite, patchily altered	Fractured and 35° to C.A. Possible max. greisen width 58 cms. Actual greisen width 12 cms.

Assays									
From	To	Sn ppm	Sn	U	W	Pb	Zn	Cu	Ag
24.2	24.6	2700							
24.2	24.8		3050	85	30	130	2400	720	9
24.8	28.0		1500	40	25	60	990	75	1.
28.0	30.5		360	36	25	35	820	40	1
30.5	33.5		1070	24			780	50	1
33.5	38.1		500	28			460	70	1
34.7	36.3	Tr.							
36.3	37.8	1000.							

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 4 Page: 3

From	To	Rec (m)	Rec (%)	Description	Structural
34.8	38.1	1.3	40	Coarse quartz, weathered feldspar biotite granite.	

Assays						
From	To					

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: ROYAL GEORGE

HOLE: CCC 5.

Commenced	06 JULY 66
Completed	31 AUG 66
Logged by	G. Urquhart
Drilled by	Mines Dept.

Purpose
To test the Southern extension of the main Royal George lode at shallow depth.

Comments on Completion
Main Zone 3m. wide from 69.8 - 73.3 but tin bearing greisen zone 60 - 80m. Contact between coarse grained biotitic granite and finer grained porphyritic granite 69m. Hence main mineral within finer porphyritic granite.

Northing	Easting	Level	Dip	Bearing	Length
8,126	3,578	294	-60	59	81.7m.

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
	? EX.

Recovery	
Depth	%

Summary

Depth		Level		Recovery	Description	Assays					
From	To	From	To	%		Length(m)	Sn.	Ug/t	Zn	Cu	Ag
69.8	73.3	233.6	230.5	80 (Approx)	Best intersection	3.5	0.30	22	0.03	0.01	1.
36.9	36.7				Narrow tin bearing greisen veins						
					60 - 80m.						
					Contact between granites 69.0m.						

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 5 Page: 1

From	To	Rec (m)	Rec (%)	Description	Structural
0	10.5	0.15	2.	Quartz fragments	
10.5	16.1	0.75	13	10.5–19.9 m: Pale coarse grained biotite granite, tourmaline bearing, white felspars. Torbanite (?) on fractures	
16.1	17.1	0.15	15.		
17.1	18.3	0.52	43.		
18.3	19.9	0.33	21	at 11.0m.	
19.9	21.6	0.87	51	19.9–21.6: Altered, greisenised coarse grained granite. Felspars pink, becoming white. Biotite sparse. 15cm wide barren quartz greisen zone at 20.0m.	
21.6	23.8	1.10	50	Altered coarse grained biotite granite.	Fractured. Fractures 35° and 50° to C.A.
23.8	25.3	1.15	77.	23.8–31.1: Coarse grained biotite granite; incipient sporadic alteration of felspars to pinite in places, indicated by decomposition of felspars to green clayey mineral	Shear zone at 26.4–26.9. Fractures 15–20° to core axis. Minor shear 10° to C.A. at 30.8.
25.3	29.9	3.6	80.		
29.9	31.7	1.3	72.		
31.7	35.8	2.7	66.	31.1–42.7m: Coarse grained biotite granite, bearing tourmaline in a few places. Felspar sporadically altered to pinite. Rock slightly greisenised at 35.3m. A 5cm wide greisen band at 35.7m. carrying pyrite and tourmaline.	
35.8	39.6	3.1	82.		
39.6	42.7	3.32	43.		
42.7	45.72	1.72	58	42.7–44.7: Fine grained grey quartz greisen and partly greisenised rock. Thin (0.5cm.) sulfide stringers in fractures, mainly pyrite & arsenopy. Sporadic visible cassiterite, finely disseminated.	

Assays (C.R.A.)

From	To	Sn c.e.e	Sn	U	W	Pb	Zn	Cu	Ag
0	25.3	·	70	26	180	130	390	140	2
25.3	28.6		60	24	160	10	280	180	<1
28.6	34.4		75	28	120	10	290	85	1
34.4	37.5		330	30	110	15	520	110	1
37.5	42.7		85	28	170	25	460	95	1
42.7	44.7	Tr.	750	100	-	220	1100	230	4
44.7	56.2		700.	40	110	60	940	190	3.

CCC 5

A87036

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 5 Page: 2

From	To	Rec (m)	Rec (%)	Description	Structural
45.70	48.6	1.9	66.	44.7–47.4 m: Altered coarse grained biotite granite. Felspars pinitised. Not mineralised.	
48.6.	51.7	2.1	69.	47.4–51.7 m: Coarse grained biotite granite, greisenised in local patches. Some felspars pinitised. Fractures 0.5 mm wide filled with arsenopyrite	Fractures 40–45° to C.A.
51.7.	54.7.	2.9.	97.	51.7–59.3 m: Coarse grained biotite granite. Sporadic felspars pinitised but overall not greatly altered. Tourmaline disposed up to 52.1 m. Greisen zones in the following intersections:	58.6 m: 15cm. fracture zone at 20° to C.A.
54.7	57.7	3.0	100.		
57.7	59.2.	1.5	100.		
				52.5–52.75: 25cm. wide qtz. greisen carrying arsenop, pyrite, and chalco.	
				55.1–55.25: 15cm. wide qtz.-greisen band with sulfides	
				55.6–55.73: 13cm. qtz.-greisen with sulfides	
59.2.	62.3	2.9	95	59.3–66.8 m: Coarse grained biotite tourmaline granite, felspars pink and sporadically pinitised.	
62.3	65.2	2.9	100.		
65.2.	67.4	2.2	100.		
				61.2–61.55: 35cm. qtz. greisen zone carrying chalco, pyrite, arsenop.	
				64.5–64.85: 35cm. qtz. greisen band with pyrite.	
				66.4–66.7: 30cm. greisen band carrying arsenopyrite.	Sulfide filled fracture in this zone at 40 to C.A.

Assays									
From	To	Sn (c.c.c.)	Sn (CRA)	U	W	Pb	Zn	Cu	As
56.2	61.2		290	26	15	20	450	15	1
61.2	61.52	1700	2150	110	10	1200	1900	210	21
61.5	64.5	Nil	200	34	<10	30	390	28	<1
64.5	64.8	Tr.	620	32	15	70	480	320	3.
64.8	66.4	Nil	180	34	20	20	380	32	<1
66.4	66.7	1600	2150	36	10	40	400	290	4
66.7	67.1	Nil	120	90	15	30	370	35	<1
67.1	67.3	3700	3900	32	10	35	150	380	2
67.3	69.8		230	32	15	20	390	65	<1.

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 5 Page: 3

From	To	Rec (m)	Rec (%)	Description	Structural
67.4	71.9	3.5	78.	66.8–68.9m: Coarse grained biotite granite. Pink felspars; Greisen band 12cms wide at 67.3m.	Fragmental core recovery over last 30 cms.
				68.9–69.8m: Fine grained porphyritic granite. Does not look potential tin-bearing rock. Poor recovery probably due to the contact between finer and coarser grained granite.	Friable, decomposed
				69.8–71.2m: Greisenised (but not wholly greisen) fine grained granite No sulfides but worthy of sampling. Remnant felspars evident in places.	
				71.2–72.1m. Less altered but still partially greisenised fine grained porphyritic granite. Remnant felspars exist.	
71.9	74.4	2.2	87.	72.1–75.9: Finer grained porphyritic	
74.4	75.9	1.4	93.	granite. Greisenised but not highly mineralised. Abundant remnant felspars. 7cm. greisen zone at 74.4m	
75.9	81.7	5.8	100.	75.9–81.7: Slightly altered fine grained porphyritic granite. Greisens at the depths listed: (not associated with sulfides)	
				78.1–78.15: 5cm. wide greisen	
				78.30–78.55: 25cm. wide greisen	
				79.10–79.28: 18cm. wide greisen	
				79.70–79.83: 13cm. wide greisen	
				80.06–80.25: 19cm. wide greisen	
				80.77–80.85: 8cm. wide greisen	
				81.28–81.36: 8cm. wide greisen	

END OF HOLE

Assays From	To	Sn (c.c.c)	Sn	U	W	Pb	Zn	Cu	Ag
69.8	71.2	3700	1500	24		450	270	290	3
71.2	73.3		3900	20	20	30	280	25	<1
73.3	78.1		270	24	20	30	350	20	<1
78.1	78.15	Nil	300	26	10	130	290	95	<1
78.15	78.30	580	880	32	<10	380	1700	80	2
78.30	78.55	700	1100	28	15	150	5300	140	5
78.55	79.10	500	800	44	30	110	2500	95	1
79.10	79.28	Nil	140	28	20	40	620	42	<1
79.28	79.70	500	920	38	15	110	2600	230	3
79.70	79.83	Tr.	420	32	15	60	1500	90	<1
79.83	80.06	900	1450	36	20	55	3500	120	<1
80.06	80.25	Tr	620	20	10	60	1600	48	<1
80.25	80.77	Nil	160	34	10	30	610	32	<1
80.77	80.85	1000	1400	24	20	55	1400	45	<1
80.85	81.28	Nil	190	34	10	35	1000	42	<1
81.28	81.36	Nil	300	34	10	50	890	50	<1

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: ROYAL GEORGE

HOLE: CCC 6

Commenced	02 SEP. 66
Completed	12 DEC. 66
Logged by	G. Urquhart
Drilled by	Mines Dept.

Purpose
To test the southern end of the main Royal George lode at shallow depth.

Comments on Completion
Hole abandoned at 94.5m. because stuck rods. Swarm of narrow veins 60-94 in both granite types. Thin veins carry 0.1-0.8% and intervein material 0.02-0.05%. Veins = Approx. 20% of rock from 78-94m.

Northing	Easting	Level	Dip	Bearing	Length
8173	3534.	295.6	-60.5	50°	94.5

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
	Ex ?

Recovery	
Depth	%

Summary

Depth From	Depth To	Level From	Level To	Recovery %	Description	Assays Length(m)	Sn	W%	Zn	Cu	Ag
80.2.	84.5	225.8	222.1	96 Approx.		4.3	0.17	23	0.74	0.05	22.
40.1	42.2						(177°)				
88.5	92.3	218.6	215.3	90-95.		3.8	0.21	23	0.12	0.01	1
44.2	46.1										
					Thin veins swarm from 60-94 in both coarse grained						
					granite and porphyry.						

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 6 Page: 1

From	To	Rec (m)	Rec (%)	Description	Structural
0	5.18	0	0	0–18.3m: Felspar, porphyritic biotite	
5.2	8.8	1.0.	27	tourmaline granite. Phenocrysts	
8.8	17.1	0.8	10	in fine-grained groundmass.	
17.1	32.3	1.2	8		
32.3	43.0	0.4	4	18.3–56.7: Coarse grained biotite-	
43.0	50.6	0.3	4	tourmaline granite. General	
50.6	54.3	1.8	48	yellowish-green incipient alteration	
54.3	56.8	0.9	35	of felspars to pinite	
				56.7–56.8: Clay band.	
56.8	58.2	1.4	100.	56.8–57.0: Greisenised, hematised rock 20 cms. wide. No visible tin. No visible sulfides.	
				57.0–57.25: Coarse grained granite.	
				57.25–57.8: Band of partly greisenised rock @ 23 cms. wide. No sulfides.	
				57.8–58.2: Coarse grained biotite-tourmaline granite. 5cm. wide greisen band at 58.1m.	
58.2	59.6	1.1	80	58.2–59.6: First 30cms. of coarse grained biotite-tourmaline granite followed by 30cms. band of finer grained porphyritic granite, apparently intrusive. Last 80 cms. of coarse grained granite.	
59.6	62.7	3.8	100.	59.6–68.0m: Coarse grained biotite-	
62.7	67.4	1.5	32	tourmaline granite. Sporadic felspars	
67.4	68.0	0.2	34	incipiently altered to pinite. 20 cm. wide greisen band at 61.1–61.3 carrying pyrite, arsenopyrite and fluorite. No visible tin. 8cm. wide greisen at 61.7 –61.78m, 38° to core axis, assoc. with pyrite and arsenopyr.	Fractures at 62.9m. at 43° to C.A.

Assays — CRA.

From	To	Sn	Sn	W	Pb	Zn	Cu	Ag	
		c.c.c.							
50.6	56.8		175	32	140	20	330	230	1
56.9	59.4		340	20	20	40	560	40	<1
59.5	61.1								Inter-vein
61.3	61.7		415	28	20	20	460	35	<1
61.1	61.3								
61.7	61.8	2200.	(vein).						
61.8	64.0		325	16	20	30	270	30	<1
64.0	68.1		305	32	20	25	390	60	1
68.2	69.5								Inter-vein

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 6 Page: 2

From	To	Rec (m)	Rec (%)	Description	Structural
68.0	70.4	2.3	95	68–75.0m: Altered coarse grained biotite – tourmaline granite. 8cm. wide quartz – greisen vein 40° to core axis at 68.15–68.23. 8cm. qtz – greisen band 40° to C.A. at 70.6–70.68 carrying pyrite. 13cm wide qtz. – greisen band at 73.3–73.43. carrying arsenopyr. and pyrite. 10cm. wide pyr. – qtz. greisen 74.1–74.2, 40° to C.A. 10cm. pyrite – qtz greisen at 74.7–74.8m, 50° to C.A.	Veins (10% of rock)
70.4	75.0	4.6	100.		Inter-vein
					Inter-vein
75.0	75.6	0.33	55	75–79.6: Coarse grained biotite – tourmaline granite. Felspars sporadically and incipiently altered. 13cm. pyrite qtz greisen band 43° to core axis 78.15–78.28 15cm. pyr – arsenopy – qtz. greisen at 79.32–79.47m. at 40° to C.A.	Inter-vein
75.6	79.6	4.0	100.		
79.6	81.1	1.3	86	79.6–81.1m: Foist 55cms. in coarse quartz granite followed by 78cms. of sulfidic greisen carrying sphalerite (2–3%) Pyr, Arsenop, Chalco in lesser amounts. Visible tin	Max. possible width of greisen if 100% recovered = 1.0m. Actual width 78cms.
81.1	88.7	17.6	100.	81.1–82.7: Coarse quartz – white felspar granite. At 81.6–81.8, 20cm. pyr. greisen band 40° to C.A. 82.7–83.3: 0.58m. band qtz – greisen at 40° to C.A. Pyr. and sphalerite common esp. on fractures.	Inter-vein

Assays									
From	To	Sn c.c.	Sn.	U	W	Pb	Zn	Cu	Ag.
68.1	68.2								
70.6	70.68								
73.3	73.43.	2800							
74.1	74.2								
74.7	74.8.								
69.5	70.6.								
70.7	71.9.		275	24	30	20	390	80	<1
71.9	73.3.								
73.43	74.1								
74.2	74.7		325	16	20	20	440	75	<1
74.8	75.0								
75.0.	78.0		100	16	20	10	165	15	<1.
78.0	78.15								
78.28	79.32								
79.47	80.16		400	16	20	75	1100	70	2
81.1	81.60								
81.8	82.6								
78.15.	78.28	880	1250	24		170	1400	550	17
79.32	79.47	Veins	(25% of rock)						
80.16.	81.1	1000 Vein.	1600	24	<10	1600	2.7%	1500	85.
81.6	81.8.	Veins							
82.7	83.3.	4300	5300	30		280	3700	700	14
82.6.	82.7								
83.3	84.3		290	24	20	40	660	40	<1
84.5.	85.6.								

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 6 Page: 3

From	To	Rec (m)	Rec (%)	Description	Structural
				83.3 – 83.9: Coarse grained biotite granite. 2.5cm greisen band at 84cm	
				83.9 – 88.7: Porphyritic biotite Granite, containing quartz and pink feldspar phenocrysts.	
				17cm. greisen band at 84.30 – 84.47 with pyr, sphalerite (common) and arsenopyr. (less common)	Veins
				86.29 – 86.37: 8cm greisen band.	Veins
				88.50 – 88.65: 15cm. greisen band at 40° to C.A. Pyr. + Sphal. present.	Veins
88.7	89.8	0.9	86	88.7 – 91.4: Pink porphyritic Granite; fairly coarse grained in place from 88.7 – 89.6. Becoming paler at depth, and finer grained.	Vein
89.8	90.5	0.7	100		
90.5	92.0	1.4	95		
				91.4 – 92.3: 80cm. quartz – mica and qtz. greisen band. Pyr. disseminated and filling thin 2mm. fissures 40° to C.A. Sphal. less common; Tourmaline sparse; Asp. present; Tin along cleavages.	
92.0	93.6	1.4	88	92.3 – 94.5m: Fine grained porphyritic Granite. Pink feldspars and square quartz phenocrysts.	
93.6	94.5	0.76	85		
				RODS & BARREL STUCK. HOLE ABANDONED.	

Assays							C.R.A.		
From	To	Sn	Sn	U	W	Pb	Zn	Cu	As
		C.C.C.							
84.30	84.47								
86.29	86.37	5300	6150	34		150	5000	370	5
88.50	88.65								
85.6	86.29		450	20	30	30	560	35	<1
86.37	88.50								
88.65	91.4		390	20	20	20	330	30	<1
91.4	92.3	7100	7200	32	15	400	3500	530	4
92.3	94.5		115	28	10	15	145	15	<1

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: ROYAL GEORGE

HOLE: CCC 7

Commenced	23 Sep 66
Completed	22 Nov 66.
Logged by	G. Urquhart
Drilled by	Mines Dept.

Purpose
To test the central section of the Royal George main lode at a shallow depth beneath 2 Level.

Comments on Completion
10-12 m. wide greisenised zone averaging approx. 0.4-0.5 Sn. Recoveries good. Porphyritic and (c.g.g.) H.W. and F.W.

Northing	Easting	Level	Dip	Bearing	Length
8223	3,502	298.2	-60	63.5.	109.7

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
	EX?

Recovery	
Depth	%

Summary

Depth		Level		Recovery	Description	Assays				p.p.m.			
From	To	From	To	%		Length(m)	Sn	U	W	Pb	Zn	Cu.	Ag.
87.4	102.1			95-100	Sulfidic qtz- and qtz-mica greisen zone with	14.7	0.39	23	<40.	<300.	2570	530	10.
43.7 Including.	51.0				minor bands of coarse grained granite.								
88.7	99.4	221.4	212.1	95-100.	Similar to above but including a 2m. wide	10.7	0.46	24	<30	<300.	2800	610	12.
44.3	49.7				c.g.g. band on F.W.								

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 7 Page: 1

Recoveries.

From	To	Rec (m)	Rec (%)	Description	Structural
0	2.7	0.18	7	0 – 9.3 m:	
2.7	6.4	3.5	94	Fine grained biotite and tourmaline bearing granite. Sporadic qtz. phenos. up to 0.5cm. in size. Yellowish – green oxidation on some fractures 2.7 – 6.4 m. Some felspars incipiently altered to pinite 8.2 – 9.3m	Fractured 35° to C.A. 6.4 – 6.9m.
6.4	7.0	0.4.	71		
7.0	8.2.	0.6	53.		
8.2	9.3	1.1	100.		
9.3.	10.2	0.8	89.		
				9.3 – 14.9 m:	
10.2.	12.5	1.7	73.	Fine grained biotite-tourmaline granite. 15cm. pegmatite with tourmaline at 10.2 – 10.4 m. Tour. rich 14.3 – 14.6m. Phenocrysts mainly of square or rectangular shaped quartz.	Fractured 35° to C.A. at 12.8
12.5	14.9.	1.9	79		
1					
14.9	18.0.	2.2	70.	14.9 – 38.7m:	
18.0.	20.1	1.8	88	Fine grained biotite-tourm. granite. Tourmaline concentration at 18.5m, enveloped by aureole of silicified altered rock. Felspars incipiently pinitised 24.7 – 30.8 m.	Fractured 30° to core axis at 14.9 – 17.9.
20.1	21.5	0.8	58		
21.5.	25.9	4.3	98.		
25.9	27.4	0.9.	65.		
27.4	30.7	.9	27.		
30.7	34.4	3.7	100.	38.7 – 53.7m:	
34.4	35.6	1.2	100.	Fine grained biotite – tourm. granite. Pegmatite at 39.6m. Qtz. phenos. in granite 3-12mm. across at 42 – 53m. Sporadic large 25mm. felsp. phenos.	Fractured rock. Fractures 26° to C.A. at 45.7 and 30° to C.A. at 52.1
35.6	36.8	0.7	62.		
36.8.	38.7	1.7	91		
38.7	39.6	0.8	93		
39.6	42.2	1.4	54.6		
42.2	43.9	1.4	82	53.7 – 55.2 m:	
43.9	46.0	2.3	100.	Coarse grained biotite – tourm. granite. Felspars incipiently pinitised	Closely fractured 40° to C.A.
46.0	48.7	2.6	95		

Assays (CRA.)

From	To	Sn c.c.c.	Sn	V	W	Pb	Zn	Cu	Ag
0.0	6.4		24	40	110	15	110	65	1
6.4	10.0		36	32	180	10	140	120	1
10.0	14.9		24	40	150	5	130	100	1
14.9	20.1		26	38	170	10	140	170	1
20.1	25.9		28	26	100	10	160	220	1
25.9	34.4		60	26	130	45	160	330	1
34.4	38.7		20	4	170	15	180	140	<1
38.7	43.9		65	44	90	20	210	110	<1
43.9	48.7		50	16	80	10	290	175	<1

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 7 Page: 2

Recoveries.

From	To	Rec (m)	Rec (%)
48.7	49.6.	0.8	88
49.6	50.6	1.0	100.
50.6	52.0.	1.3	90.
52.0	54.8	2.5	91.
54.8	58.2	2.0	59.
58.2	59.4	1.0	83.
59.2	60.2	0.7	70.
60.2	63.1	2.0	68
63.1	64.1	1.0	100.
64.1	66.6	2.3	89
66.6	79.2	12.6	100.

Description

55.2 – 60.0m:

Abrupt change to fine grained granite.

60.0 – 67.3m.

Coarse grained biotite-tourm. granite. Zonal yellow alteration of sporadic sodic feldspars.

67.3 – 69.0:

Alternating coarse and finer grained granites, which is porphyritic with qtz. phenos. and white feldspars. Porphyritic granite in bands up to 10cm. wide. No chilled margins in either granite at contacts which are sharp-bent intergrown. Porph. granite apparently assimilated crs. grained granite. Q3cm greisen band at 68.3, 38° to core axis.

69.0 – 77.5m:

Finer grained porphyritic biotite granite. Sporadic pegmatite (qtz.-tourmaline) pockets. Greisen blebs and patches from 69.3 – 71.2m. but very minor. Phenos of qtz. and feldspar 1-3cm. in size.

77.5 – 79.2m.

Fine grained porphyritic biotite granite. 12mm wide qtz-mica greisen band at 78.8, 48° to C.A.

Structural

Assays									C.R.A.
From	To	Sn	Sn	U	W	Pb	Zn	Cu	As
		c.c.c							
48.7	51.8		45	32	90	10	390	105	1
51.8	57.3		90	32	90	10	270	75	<1
57.3	60.0		65	100	110	10	580	220	<1
60.0	66.4		45	24	120	10	210	230	<1
66.4	71.9		190	38	110	80	470	200	2
71.9	76.2		80	44	100	20	175	240	1
76.2	77.7		28	40	20	10	130	10	<1
77.7	79.2		40	44	25	10	240	30	<1

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 7 Page: 3

Recoveries

From	To	Rec (m)	Rec (%)	Description	Structural
79.2	81.2 8	0.8	80.	79.2 – 81.2m: Tourmalinised fine grained qtz-mica greisen and greisenised fine-grained granite. No sulfides.	Fractured 40° to C.A.
81.2	82.9	1.6	94	81.2 – 81.5m. Fine grained porphyritic granite. 81.5 – 82.8m. Coarse grained white granite. Contact sharp but intergrown, not planar; No chilled margins. Coarse granite assimilated by fine granite?	Fractures 36° to core axis.
82.9	84.7	1.6	96.	82.8 – 83.0m: Qtz. greisen carrying pyr., chalco, arsenopy, and blue copper glance. 83.0 – 83.13: Qtz. greisen, 13 cms. wide bearing arsenopy. and chalco. 83.13 – 84.7: Coarse grained pinitised biotite-tourm.-sericite granite. (20 cm. core loss in above 2 units)	
84.7	89.0	4.3.	100	84.7 – 85.0: Coarse grained granite. 85.0 – 85.4: Fractured qtz-mica greisen cms wide, with pyr, cop, sphal, Arsenopy. (approx. 2%), mostly along fractures in siliceous rock. 85.4 – 86.1m: Coarse grained pinitised white granite.	Fractures 45° to C.A.

Assays CRA ppm.

From	To	[illegible] Sn (c.e.e.)	Sn	U	W	Pb	Zn	Cu	As
79.2	81.18	1400	1600	38	25	110	420	55	<1
81.18	82.8		340	38	10	20	360	35	<
82.8	83.03	1800	2100	48	40	230	2300	1900	3
83.03	84.99		390	24	15	20	530	50	1
84.99	85.39	1700	1950	34	15	240	4400	660	14
85.39	86.1		340	24	35	30	480	35	1

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 7 Page: 4

From	To	Rec (m)	Rec (%)	Description	Structural
				86.1 – 86.6: Quartz greisen 0.5m. carrying chalco, pyrite, arsenopyy, and sphalerite	
				86.6 – 87.4: Coarse grained pinitised granite	
				87.4 – 88.0: Quartz – and qtz. – minor greisen. Pyrite and sphalerite most common sulfides, perhaps 4 – 5%. Pyrite esp. fills fractures. Sulfides generally restricted to silicified areas.	Closely fractured 5–10mm apart, 43° to C.A.
				88.0 – 89.0: Quartz and qtz – mica greisen. Sulfides mostly pyr. Also arsenopyr, and sph. filling both fracture patterns.	Fractured 40° to C.A. and 43° to C.A. in opposite angle [conj. joints].
89.0	89.9	0.87	97	89 – 89.9: Qtz. greisen changing to mica – qtz. greisen, and less silicified at lower depth. Pyr, sph, Arsenopy, and tourmaline present.	Fine fractures 35° C.A.
89.9	90.8	0.85	94	Quartz – and qtz – mica greisen; pyr, sph, esp, and minor fluorite. No arsenop. Blue mineral assoc. with minor tourmaline, sparsely disem.	*
90.8	91.4	0.6	100	Qtz – greisen; Chalco. assoc. with arsenop, and copper glance. Lesser pyr. and sphal.	Less fractured and cleaned.
91.4	92.5	1.1	100	Greisen and greisenised coarse grained granite. Felspars highly altered. Pyr, chalco, arsenopy, present	Not highly fractured.

Assays CRA – ppm.									
From	To	Sn (ppm)	Sn	V	W	Pb	Zn	Cu	As
		CCC							
86.1	86.56	2000	2350	34	35	730	4500	520	2.
86.56	87.4		320	22	15	25	480	35	
87.4	88.69	1800	2150	20	25	190	2800	460	8
88.69	89.61	4800	6100	22	20	210	5000	640	12
89.61	90.52	Tr.	3800	22	20.	150	2100	510	
90.52	91.44	2200	3050	24	25	180	2000	1100	2
91.44	92.35	4100	4600	22	35	220	4000	950	
92.35	93.2	3100	3650	24	20	190	8900	650	

C.C.C. Composite Sample { 87.4 – 93.2 : 5.8m. 0.35 Sn.

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 7 Page: 5

From	To	Rec (m)	Rec (%)	Description	Structural
92.5	93.1	0.6	100	Pinitised, greisenised coarse grained granite containing Qtz.–greisen bands. Pyr., arsenopy, in greisen bands, sparser in greisenised granite.	Not highly fractured.
93.1	96.2	3.05	98	93.1–93.25: Qtz-greisen with sulfides, mainly pyr. 93.25–93.8: Altered granite, no sulfides 93.8–94.1: Pinitised granite; sulfides scarse. 94.1–94.9: Qtz. greisen containing pyr., sph., arsenopy, chalco, fluorite and tourmaline. Visible tin. 94.9–96.2: Alternating bands of coarse grained granite and sulfidic Qtz. greisen.	
96.2	97.9	1.7	100	96.2–97.6: Qtz. greisen bearing pyr., sphal, chalco, Arsenopy, including 18cm. band coarse grained granite	CaF_2 0.30. CaF_2 0.70
97.9	99.1	1.15	98.	97.6–98.1: Coarse grained granite. 98.1–98.4: Qtz-greisen. 98.4–98.9: Barren coarse grained granite 98.9–99.1: Qtz. greisen with pyr., sph., arsenop, and tin.	CaF_2 0.54
99.1	102.1	2.95	99	99.1–99.4: Qtz. greisen bearing chalco., arsenop, pyr., and sphal. 99.4–101.5: Coarse grained biotite tourmaline granite.	

Assays — CRA – ppm.

From	To	ppm Sn	Sn	U	W	Pb	Zn	Cu	As
		c.c.c.							
93.2	94.1	1300	1400	24	10	270	760	120	2
94.1	94.79	4200	6300	26	20	160	2600	480	9
94.79	95.71	2800	3100	20	10	150	2000	270	3
95.71	96.62	10,800 (1.08)	11,900 (1.19)	26	45	190	1700 0.01Au	1500 40Bi	2
96.62	97.58	1400	1850	26	20	70	1300	210	4
97.58	98.10		2600	28	10	170	1050	45	3
98.35	98.96								
98.10	98.35	9800	14,400	24	25	480	4900 0.01Au	160 16 Bi	1
98.96	99.41	4200	4,600	20	25	150	840	1400	2
99.41	101.77		140	24	10	15	180	15	<

c.c.c. Composite Sample: 94.1 – 97.58 : 3.5m 0.53 Sn.

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 7 Page: 6

48/049 040

From	To	Rec (m)	Rec (%)	Description	Structural
				101.5 – 102.1 : Qtz - greisen containing 10 cms. of coarse grained granite. Sph. predominant in greisen, also pyr. and tourmaline, chalco and arsenopy, in veinlet 38° to C.A.	
102.1	103.5	1.4	100	Coarse grained biotite - tourmaline granite.	
103.5	106.5	3.0	100	103.5 – 105.2 : Coarse grained biotite tourmaline granite. Sporadic felspars altered. 3 cm. wide qtz. greisen and qtz. mica greisen at 98.8 m. (Pyr. 2%. Tourm. present, chalco. sparse.)	Greisen band not fractured.
				105.2 – 107.6 : Fine grained porphyry granite. Phenoc. of quartz and felspar. 15 cm. wide greisen at 106.9 m. assoc. with pyr, arsenopy, sph.	Fractured 48° to C.A
				107.6 – 109.7 : (Final depth approx. only) Fine grained porphyritic granite.	

Assays							CRA - ppm		
From	To	Sn	Sn	U	W	Pb	Zn	Cu	
		ccc							
101.77	102.11	7400	8500	20	45	240	1600 0.01 Au	1200 24 Bi	2
102.11	104.5		110	18	10	10	250	25	<
104.5	104.82	8300	8800	18	10	100	1400 0.01 Au	720 6 Bi	5
104.82	106.68		740	36	20	25	390	50	2
106.68	109.58		180	42	30	50	430	25	

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: Royal George

HOLE: CCC 8

Commenced	14 Dec 66
Completed	20 Mar 67
Logged by	A.J. Noldart
Drilled by	Mines Dept.

Purpose
To test the central section of the main Royal George lode.

Comments on Completion
20m. wide zone of stanniferous – sulfidic greisen zones inter"bedded" with tin poor c.g.g. units. Some significant core loss of greisen units; hence widths and grades of main greisen units probably more than calculated below.

Northing	Easting	Level	Dip	Bearing	Length
8,276	3,472	299.9	–60	059	110.3

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
0–110	EX (20mm.)

Recovery	
Depth	%

Summary

	Depth		Level		Recovery	Description	Assays							
	From	To	From	To	%		Length(m)	Sn	U	W	Pb	Zn	Cu	Ag g/t
	83.06	88.77			85 (Approx)	Banded Greisen – c.g.g. unit. One zone of sig. core loss	5.71	0.23	21	10		0.5	420	13
	41.5	41.38												
Incl.	86.87	88.77	224.7	223.0	95 ?		1.9m	0.45	25	<10	220	0.29	0.05	17.
	43.4	44.6												
	93.80	106.30			90–95.	Banded greisen – c.g.g. unit.	12.5	0.38	26		·	0.15	0.09	13
	46.9	53.2												
Incl.	93.80	99.52	218.7	213.7	90–95 ?		5.7	0.58 (cc) 0.58 (CAA)	28	55	85	0.22	0.17	23
	46.9	49.2												

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC8 Page: 1

CCC8

40784

From	To	Rec (m)	Rec (%)	Description	Structural
0.0	13.4	6.4	48	Oxidised fine grained qtz - felspar biotite granite with occasional blebs of black fine grained material.	Faulted parallel to core 14.9-15.1 18-19 and 19.2-19.8
13.4	14.9	1.1	74		
14.9	15.1	0.2	100.		
15.1	16.2	0.8	69.		
16.2	17.1	0.5	57.		
17.1	18.4	0.9	71		
18.4	18.7	0.2	75.		
18.7	20.1	1.4	100.		
20.1	21.1	0.9	85	As above; occasional 2-3 cm. zones coarse grained granite. Becoming fresh after 20.4	
21.1	23.5	2.3	97	15cm. zones coarse grained granite at 21.4 and 21.7.	
23.5	24.6	0.9	73.		
24.6	26.6	1.6	88		
26.5	28.8	2.2	98		
28.8	30.3	1.4	97		Shear zone at 29.8m.
30.3	32.5	2.0	94		
32.5	36.9	4.4	100.	34.9 - 35.9: Fine grained non-porphyritic qtz - mica feldspar granite, tournalinised.	
36.9	37.3.	0.38	83.	35.9 - 37.9: Fine grained porphyritic granite.	
37.3	39.2	1.7	88		
39.2	40.2	0.6	60	37.9 - 40.7: Transition zone, fine grained granite to coarse grained granite.	
40.2	41.7	1.4	97		
41.7	42.6	0.6	65		
42.6	45.7	2.6	85	40.7 - 70.5: Coarse grained, pink felspar, qtz. - biotite granite.	Core generally badly shattered.
45.7	46.8	1.1	100.		

Assays C.R.A.									
From	To	Sn.	Sn	U	W	Pb	Zn	Cu	As
		c.c.c							

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

4870521 C51

Project: ROYAL GEORGE   Hole: CCC 8   Page: 2

From	To	Rec (m)	Rec (%)
46.8	47.4	0.5	82
47.4	50.4	1.1	37
50.4	50.9	0.18	36.
50.9	53.6	0.5	18
53.6	56.6	2.97	99
56.6	57.9	1.1	82.
57.9	58.9.	0.53	50.
58.9.	62.0	0.9	28.
62.0	65.0	1.5	50
65.0.	66.1.	0.9	81
66.1	66.7	0.4	71
66.7.	69.3	2.4	92.
69.3	70.5	1.0	82
70.5	71.0	0.3	60.
71.0	72.2	1.1	89
72.2	72.8.	0.55	92
72.8	74.7	0.9	48
74.7	77.1	2.3.	95
77.1	78.2	0.9	82
78.2	80.2.	2.0	100
80.2	81.1	0.56	62
81.1	81.6	0.5	100.
81.6	82.7	1.0.	98
82.7	84.6	1.47	78.

Description

(70.5–71.0 onward) Coarse grained qtz. felspar biotite granite, felspars becoming gray 10 cms. fine grained dark gray porphyritic granite at 72.0 m.

(72.2 onward) Coarse grained gray/white felspar/biotite granite with fine tourmaline. 12 cm. fine grained dark gray porphyritic zone at. 72.8 and a similar 10 cm. zone at 78.4 m.

(82.7–84.6)
Ⓐ 20 cm. coarse grained granite
54 cms. fine grained porphyritic
Ⓑ dark gray granite – sulfides and tourmaline
Ⓒ 18 cms. coarse grained granite
25 cms. fine grained porphyritic granite as above.
23 cms. Coarse grained granite
7 cms. fine grained porphyritic granite as above.

Structural

N.B: The dark gray, fine grained porphyritic granite of NOLDART is probably the same as the qtz-greisen of URQUHART

Shearing and pug zone first 10 cms. (80.2–81.1)

Assays (CRA.)

From	To	Sn c.e.c.	Sn	U	W	Pb	Zn	Cu	Ag
60.96	66.14		25	<4	90	20	390	50	<1
66.14	70.56		20	<4	80	20	560	45	<1
70.56.	72.24		135	12	10	50	200	10	1.
[72.03	72.13.	0.07%	(c.e.c.)]						
72.24.	75.44		40	4	10	30	230	10	<1
[72.85	72.97	0.13%	c.e.c.].						
75.44	77.1		15	<4	10	15	230	5	<1
77.1	79.25		115	16	20	20.	290	15	1.
[78.43.	78.53	0.61%	c.e.c.].						
79.25	81.08		105	4	10	15	310	10	<1
Ⓐ 81.08	83.06		30	12	20	20	290	10	<1
Ⓑ 83.06.	83.72	6800	6300	30	10	2700.	3.2% Au 0.085	1300 Bi: 40.	48
83.72	84.15	Trace	350	26	<10	1500	2400	130	12
84.15	86.87		365	16	20	45	600	150	3.

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: Royal George **Hole:** CCC 8 **Page:** 3

From	To	Rec (m)	Rec (%)	Description	Structural
84.6	86.0	0.25	18	Coarse grained, white felspars, qtz, biotite granite	Friable and leached, mostly cuttings.
86.0	87.0.	0.8	80.	65 cms. coarse grained granite; leached for first 35 cms. 15 cms. fine grained gray porphyritic granite with sulfides and tourmaline	1.9 m. Greisen Zone.
87.0	89.0	2.0	100	70 cms. fine grained porphyritic granite as above. 24 cms. medium grained quartz, felspar, biotite granite 82 cms. fine grained porphyritic dark gray granite with sulfides and cassiterite. 24 cms Coarse grained granite as above.	
89.0	90.5	1.5	100	Coarse grained granite as above.	
90.5	91.1	0.53	89	25 cms. fine grained granite, porphyritic with sulfides 28 cms. Coarse grained granite as above.	
91.1	93.6	2.32	93	Coarse grained granite as above.	
93.6	94.6.	0.98.	98.	23 cms. coarse grained granite. 75 cms. fine grained porphyry, dark gray granite – minor sulfides	5.7 m Greisen.
94.6.	97.2	2.6.	100	Fine grained granite as above	
97.2	97.5	0.23	76	As above	
97.5	99.5	2.00	100	As above.	
99.5	100.0	0.5	100	Coarse grained granite	Pug zones 99.8 and 99.9.
100.0	100.75	0.75	100	40 cms. as above. 35 cms fine grained porphyritic granite with minor sulfides	

Assays CRA.

	From	To	Sn (C.C.C)	Sn	U	W	Pb	Zn	Cu	Ag
1.9 m.	86.87.	87.7	3900	3700	24	<10	220	3100	670	2[illegible]
	87.7	88.77.	5100	4800	26	10	220	2600	470	14
	88.77	90.53		275	12	10	20	280	20	<
	90.53	90.84	2900	2750	18	20	280	1.2%	570	14
c.g.g.	90.84	92.20		120	12	20	20	310	20	<1
c.g.g.	92.20.	93.80		380	12	20	30	580	30	<
5.72 m	93.80.	95.71	6600	7.000	24	20	100	3400 Au <0.01	680 Bi 14.	9
	95.71	97.61	7300	6500	30	65	90	1400 Au <0.01	2400 Bi 55.	32
	97.61	99.52	3500	3800	32	75	70	1800	2200	2[illegible]
	99.52	100.38		95	20	10.	15	260	10	<1

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE **Hole:** CCC 8 **Page:** 4

From	To	Rec (m)	Rec (%)	Description	Structural
100.75	102.2	1.5	100	38 cms. coarse grained granite 38 cms fine grained porphyritic granite with minor sulfides 74 cms. Coarse grained granite,	Broken and weathered last 15 cms
102.2	104.8	2.5	96.7	1.67 m: Coarse grained granite 0.86 m. Fine grained porphyritic granite as above 5 cms. Coarse grained granite	Broken and weathered first 30 cms
104.8	105.5	0.60	90	Coarse grained granite	
105.5	107.3	1.75	97	60 cms. coarse grained granite 23 cms. fine grained porphyritic granite as above 91 cms. coarse grained granite	← Greisen (bracketing the 23 cms. interval)
107.3	110.3	2.25	75	Coarse grained granite.	

END OF HOLE

Assays CRA.

	From	To	Sn (c.c.c)	Sn	U	W	Pb	Zn	Cu	A
	100.38	101.50	1200	1750.	30	15	190	3400	450	
	101.50.	103.94		140	24	20	30	240	15	
greisen	103.94	104.80	1.00%	9600	28	25	80	1500 Au 0.015	660 Bi 6.	
c.g.g.	104.80.	106.07.		90	20	10	20	185	15	<
→	106.07.	106.30.	1.5%	1.6%	22	15	50	1600 <0.005 Au	610 Bi 4.	
c.g.g.	106.30	107.90		20	16	20	15	60	5	<
c.g.g.	107.90.	109.73		115	16	20	30	180	20	<

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: ROYAL GEORGE

HOLE: CCC 9

Commenced	14 Nov 66
Completed	23 JAN 67
Logged by	G. Urquhart
Drilled by	Mines Dept.

Purpose
To test northern section of Main Royal George lode at moderate depth.

Comments on Completion
Wide unit of parallel sulfidic, stanniferous greisen veins or bands in a non-stanniferous coarse grained granite.

Northing	Easting	Level	Dip	Bearing	Length
8,328	3,441	295.2	-60	60	109.4
					101.04

} Mines Dept. log only to 101.04 but CRA assayed to 109.4.

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
	EX CORE
	(20mm diam.)

Recovery	
Depth	%

Summary

Depth From	Depth To	Level From	Level To	Recovery %	Description	Assays Length(m)	Sn.	U	W	Pb	Zn	Cu.	Ag.
79.96.	104.34			V. Poor in	c.g.g. with numerous stanniferous qtz -	24.4	0.41	30 ppm.	<10. ppm	<200. ppm	0.3	0.08	17.
				places	greisen (sulfidic) parallel bands or	(D.T.) (18.5m. E.T.T.)		Approx.					
Incl.					"veins"								
81.99	97.56.	224.2	210.7	V. Poor in		15.6.	0.48	25	<10	<200	0.3	0.1	24.
82.50	98.1			places.		(12.0 m. E.T.T.)							

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 9 Page: 1

CCC 9

From	To	Rec (m)	Rec (%)	Description	Structural
0.0	2.1	0.7	33	Coarse grained tourmaline biotite granite	
2.1	3.4	1.3	100		
3.4	7.62	3.5	83	Fresh, white biotite - tourmaline coarse grained granite. Faint alteration of some felspars.	
7.62	11.28	2.97	81	Pale coarse grained biotite - tourmaline granite.	
11.28	22.2	4.0	37	As above. Sporadic incipient alteration of felspars. Poor core recovery 19.5 – 22.2 m.	
22.2	25.3	1.57	50	Pale, coarse grained biotite - tour. granite	
25.3	28.3	0.75	25	25.3 – 36.9:	
28.3	30.8	2.1	82	Coarse grained, white, biotite -	
30.8	34.4	3.4	94	tourmaline granite. Sporadic -	
34.4	36.9	0.8	32	felspars pinitised.	
36.9	39.9	2.9	95	36.9 – 65.8:	
39.9	43.0	0.3	10	Coarse grained biotite -	
				tourmaline granite.	
43.0	46.0	3.0	100	[Overall recovery of this unit very	
46.0	48.5	22.	88	poor: 63%.	
48.5	51.5	3.0	100	Recovery from 53.6 – 65.8 only 43%.	
51.5	53.6	1.6	75	Possibly some greisen veins lost in	
53.6	56.7	1.4	47	here].	
56.7	59.7	0.1	3.		
59.6	62.7	1.5	48		
62.7	65.8	2.3	75		
65.8	68.9	1.2	40	65.8 – 68.9:	
				Core Recovery 40%. First	
				25 cm. coarse grained granite.	

Assays — CRA.

From	To	Sn	Sn.	U	W	Pb	Zn	Cu.	As
		c.c.c.							
0	4.8		36	26	150	10	200	210	1
4.8	7.62		44	32	150	10	220	170	1
7.62	10.36		34	36	75	5	190	100	1
10.36	19.51		30	34	140	10	210	80	1
19.51	28.35		24	28	160	15	210	70	1
28.35	33.22		26	28	110	5	160	48	1
33.22	39.93		14	26	110	5	150	60	1
39.93	46.02		28	30	120	5	230	70	1
46.02	49.07		26	34	150	35	340	75	1
49.07	53.64		28	32	300	10	400	250	2
53.64	60.96		38	36	150	10	300	70	1
60.96	63.70		28	28	25	60	230	5	<1
63.70	66.45		26	26	10	20	170	5	<1
66.45	67.28	1700	1700	30	10	520	7400	160	17
67.28	70.41		55	26	10	20	260	10	<1

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE   Hole: CCC 9   Page: 2.

From	To	Rec (m)	Rec (%)	Description	Structural
				65.8–68.9 (Cont.) Then 40 cms. tourmalinised qtz.-mica greisen. Last 53 cms. coarse qtz. granite.	
68.9	70.4	1.3	88	68.9–74.0: Coarse grained biotite-tourmaline granite.	
70.4	73.5	1.9	63.	74.0–74.2: 20 cm. band of qtz-greisen with pyr, asp, fluorite and tourm.	Fractured 52° to C.A.
73.5	79.6	6.1	100.	74.2–75.2 m: Coarse grained granite	
				75.20–75.38 m: 18 cm. wide greisen band bearing asp., chalco., Pyr., and tourm.	Fractured 40° to C.A.
				75.38–77.82 m: Coarse grained biotite-tourmaline granite.	
				77.82–78.05: 23 cm. wide qtz-mica greisen, slightly sulfidic.	
				78.05–79.55 m: Coarse grained tourm-biotite granite.	
79.6	80.2	0.56	93	79.55–80.16: 23.0 cms. sulfidic qtz.-mica greisen then 15 cms. coarse grained granite. 18 cms. sulfidic qtz.-greisen.	fractured
80.2	81.7	0.51	34	80.16–81.7: Poor core recovery. Mostly fragments of coarse grained granite 12 cms of qtz.-mica greisen in last 30 cms.	

Assays (CRA.)

From	To	Sn (CCC)	Sn	U	W	Pb	Zn	Cu	As
70.41	73.97		34	28	15	10	150	2	<
73.97	74.17	8800	8700	24	15	350	1600	760	2
74.17	75.16		42	22	<10	20	360	2	<
75.16	75.36	8800	9100	28	15	140	1600	1600	4
7–									
75.36	77.82		40			10	330	5	<
77.82	78.05	5000	5100	50	15	90	5100	190	6
78.05	79.55		40	26	<10	10	550	8	<
79.55	79.81	1600	1350	26	15	380	2500	250	4
79.81	79.97								
80.16	80.77		680	28	15	70	2100	110	2
81.15	81.99								
79.97	80.16	2900	3400	28	15	50	1.1%	680	1
80.77	81.15	3500	4000	24	10	40	3000	470	7
81.99	83.51	7900	7500	30	<10	360	2900	4100	8
							Au <0.005	B: 190.	

c.g.g. interverin material (79.81–79.97, 80.16–80.77, 81.15–81.99)

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: Royal George Hole: CCC 9 Page: 3

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From	To	Rec (m)	Rec (%)	Description	Structural
81.7.	83.5	1.42	79	81.7 – 83.5: First 30cms. coarse grained altered granite followed by 1.10 m. of qtz – greisen with chalco., asp., pyr., fluorite, sph.,	Fractured 50° to C.A.
83.5	86.3	2.26	80	83.5 – 86.3: First 1.60 m. coarse grained biotite granite, followed by 50 cms. sulfidic qtz – greisen. Last 15 cms. fragments of coarse grained granite.	Fractured 40° to C.A.
86.3.	89.3	1.95	65	86.3 – 89.3: First 8 cms. qtz. – mica greisen followed by 25 cms. coarse grained granite followed by 63 cms of qtz – greisen bearing Chalco, sphal., pyr. and tourm. Then 0.80 cms coarse grained granite, then 23 cms qtz – mica greisen.	
89.3 92.4	92.4	3.0	97	89.3 – 89.6: Coarse grained granite. 89.6 – 90.30: 70 cms. chalco, pyr., sph. qtz – greisen 90.30 – 91.77: Coarse grained granite. 91.77 – 92.40: 58 cms. qtz – mica greisen with Chalco, pyr., sph., fluorite, tourmaline	

	Assays							CRA		
	From	To	Sn	Sn	U	W	Pb	Zn	Cu	As
			c.c.c.							
	83.51	85.47.		195			12	400	12	<.
	85.47.	86.08	1.02%	9400	24	<10	180	2700 Au <0.005	1400 Bi 60.	3
Inter-vein c.g.g.	86.08	86.25								
	86.38	86.79		2000	30	<10	80	2400	340	8
	87.78	88.95.								
	89.31	89.61								
	86.25	86.38	1200	1500	26	<10	45	1900	200	2.
	86.79	87.78.	4200	5200	24	15	130	4800	980	2.
	88.95	89.31.	3200	2950	34	<10	50	2700	140	3.
	89.61	90.30.	7100	6700.	32	10	100	3200 Au <0.005	590 Bi 38.	1
		91.7								
	90.30	91.77.		150.	34	10	35	1400	25	<.
	91.77	92.35.	8800	9000.	130	25	150	5300 Au 0.045	1800 Bi 50.	2
		93.57								

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 9 Page: 4.

From	To	Rec (m)	Rec (%)	Description	Structural
92.40	93.57	1.07	91	92.40–93.57: 1.07m. non-sulfidic greisen. Fluorite veinlets.	
93.57	94.49	0.87.	94.	93.57–94.49: 81cms. sulfidic qtz. and qtz–mica greisen.	
94.49	96.01	1.48	97	94.49–96.01: 1.48m. qtz–greisen, bearing chalco, sph., pyr, asp, fluorine and tourmaline. Fluorite in veinlets.	
96.01	96.60	0.53	90.	96.01–96.60: 20 cms. sulfidic qtz greisen followed by 33 cms. coarse grained granite.	
96.60.	101.04	4.44	100	96.60–96.85: Coarse grained granite 96.85–97.54: Qtz–mica greisen. Poor or lacking sulfides 97.54–97.85: Coarse grained granite. 97.85–98.30: Qtz–mica greisen, poor in sulfides. 98.30–98.50: Coarse grained granite. 98.50–99.25: Qtz–greisen bearing minor pyr, chalco, Asp, tourmaline. 99.25–99.67: Mixed coarse grained granite and greisenised rock.	

Assays From	To	Sn CCC	Sn	U	W	Pb	CRA. Zn	Cu	Ag
92.35	93.57	7100	7800	30	25	30	950 Au 0.025	95 Bi 16	1
93.57	94.49	6600	6400	38	<10	110	7800 Au 0.02	850 Bi 22.	2
94.49	96.01	1.0%	1.08%	16	<10	340	8200 Au 0.025	3600 Bi 80.	8
96.01	96.24	2300	2150	44	<10	200	7200	760	2
96.24	96.88		190	22	<10	40	480	35	1
96.88	97.56.	7100	7500	40	<10	65	4900 Au 0.065	1050 Bi 30.	16
97.56.	98.50.	1000.	660	38	10	90	2800	90	1
98.50	99.26	4800	4700	38	<10	170	6300	2200	2
99.26	100.16.	1000	840	20	20	75	320	90	1

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: Royal George Hole: CCC 9 Page: 5

From	To	Rec (m)	Rec (%)	Description	Structural
				99.67–99.97: Coarse grained granite	
				99.97–100.48: Tourmalinised qtz-mica greisen	
				100.48–101.04: Coarse grained granite.	
				MINES DEPT LOG STOPS AT 101.04M. BUT CRA ASSAYS GO TO 109.4m.	
100.48	103.3	2.82	100	Coarse grained granite.	This log found on scrap of paper in a file. Source unknown. (not CRA.)
103.3	104.3	0.70	70	Tourmalinised qtz-mica greisen with sulfides.	
104.3	109.4	4.3	85	Coarse grained granite.	

Assays (CRA)

From	To	Sn (CCC)	Sn	U	W	Pb	Zn	Cu	Ag
100.16	100.55	5300	5600	50	10	60	4700	120	2
100.55	103.3		330			28	440	25	<
103.2	104.34	1.2%	1.28%	840	10	160	4800 Au 0.155	400 Bi <4.	[illegible]
104.34	105.46		170	60	10	35	440	30	<
105.46	107.90		300			8	470	18	<
107.90	109.42		160	12	10	20	440	15	<

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: ROYAL GEORGE

HOLE: CCC 10

Commenced	21 JAN 67
Completed	10 MAR 67
Logged by	A.J. NOLDART
Drilled by	Mines Dept.

Purpose
To test Northern section of Main Lode at relatively shallow depth.

Comments on Completion
Banded thin anomalous zone: 76–101·25m. Core recoveries in gneiss zones again poor. Sig. U. Assays towards bottom of Lode.

Hole logged by J. Noldart who calls dark grey gneiss (Augen bearing) a fine grained porphyritic granite.

Northing	Easting	Level	Dip	Bearing	Length
8,354	3,426	291	-60	059	106.7

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
All	EX
(20mm core size)	

Recovery	
Depth	%

Summary

Depth From	Depth To	Level From	Level To	Recovery %	Description	Assays Length(m)	Sn%	U	W	Pb	Zn	Cu	Ag g/t
75.99	88.42	225.2	214.4	Very poor (40-60) in places.	Banded gneiss & C.g.g.	13m.	0.40	32	<40	<100	0.21	0.05	12
38.00	44.2.					(E.T. 9-10m.)							
98.19	101.24			96%	Banded gneiss & C.g.g.	3.05	0.19	34	<20	<100	0.18	0.09	15
						(E.T. 2.5m.)							

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: *ROYAL GEORGE* **Hole:** *CCC 10* **Page:** *1.*

From	To	Rec (m)	Rec (%)	Description	Structural
0	6.7	1.27	19	0 – 60.35m:	
6.7	8.2	0.86	58.	Coarse grained, white felspar, quartz-	Oxidised zones at 6.7m, 7.6-7.9,
8.2	9.7	0.51	34	biotite granite. Some tourmaline	10.8, 15.4, 39.9, 53.6m.
9.7	11.2	1.42	95.		
11.2	12.2	0.66	66.		
12.2	13.87	1.45	86		
13.87	15.39	0.81	53.		
15.39	16.61	0.73	60		
16.61	17.37	0.56	74		
17.37	18.59	1.01	83.		
18.59	20.11	0.56.	37.		
20.11	21.33	1.17	96.		
21.33	22.86	1.53.	100.		
22.86	23.77	0.86	95.		Note: This hole logged by J. Noldart. The fine grained granite of Noldart probably = greisen of Urquhart
23.77	25.29	1.37	90.		
25.29	26.51	1.19	97.		
26.51	34.40	7.89	100.		
34.40.	36.58	1.83	84.		
36.58	38.40	1.72	95.		
38.4	41.5	1.14	37.		
41.5.	46.3.	4.6.	96.		
46.3.	47.8	1.47	98		
47.8	50.9	2.74	89.		
50.9.	53.9	1.68	56.		
53.9	58.5	3.66.	80		
58.5.	60.35	1.85.	100.	61.36 – 61.46:	
60.35.	61.70	1.24	92	10cm. fine grained greisen zone with sulfides	
61.70	66.75	5.05	100	Coarse grained granite as above.	Oxidised fault zone 64 – 65m. Oxidised and sheared 66.4 – 67.0m. and 68 – 68.8m.
66.75	69.8	2.84	93	68.8 – 68.9: Fine grained greisen vein.	
69.8	70.7	0.53	59	Coarse grained granite	Sheared and oxidised.

Assays (CRA)

From	To	Sn (ccc)	Sn	U	W	Pb	Zn	Cu	As
60.96	64.31		90	12	110	240	340	60	<1
64.31	67.66		45	32	120	20	380	70	<1
67.66	71.63		165	20	140	30	560	80	<1

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062

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 10 Page: 2.

From	To	Rec (m)	Rec (%)	Description	Structural
70.7	72.2	0.79	53.	C.g.g. 72.20-72.25: 5cm. fine grained granite – greisen	Sheared and oxidised.
72.2	73.76	1.22	78	72.25-76.05: Coarse grained granite.	
73.76	75.29	1.53	100.		
75.29	76.35	1.01	95.	76.05-76.35 Fine grained greisenised mica – tourmaline grainte with sulfides.	
76.35	77.8	1.45	100.	1.15m. coarse grained granite as above. 30cms. fine grained granite as above.	
77.8	79.40	1.60	100.	77.8-81.69: Generally coarse grained granite with some greisenisation at 78.0m, 79.2m, 79.6m, 80.1m, 80.9m. May be transition zone – mixed fine and coarse grained granites.	
79.40	80.92	1.45	95.		
80.92	81.69	0.41	53		
81.69	83.21	0.66	43.	Coarse grained granite as above	Sheared and oxidised.
83.21	84.12	0.91	100.		
84.12	85.04	0.71	77	Fine grained, rarely porphyritic, dark gray granite with tourmaline and sulfide.	
85.04	85.65	0.38	62.	18cms. fine grained grainte as above. 20cms. coarse grained granite.	C.R.A sample quartered EX core.
85.65	86.87	0.58	48	Fine grained porphyritic dark gray granite with sulfides.	
86.87	87.33	0.35	77	Fine grained porphyritic granite as above.	
87.33	87.93	0.43	71	12cms. fine grained porphyritic granite. 31cms coarse grained granite.	

Assays (CRA.)

CaF2.	From	To	Sn (ccc)	Sn	U	W	Pb	Zn	Cu	A…
	71.63	73.76		250	16	10	40	240.	20	1
	73.76	75.99		120	16	20	20	270	10	<…
0.88	75.99	76.35	3900	4100	28	25	170	3700	1000	2…
	76.35	77.50		60	16	20	20	310	5	<…
0.78	77.50	77.82	0.97%	1.08%	26	25	50	1000 Au 0.03	1400 Bi 34	3…
0.46.	77.82	80.92	Tr	370	26	10	15	500	42	<…
	80.92	81.69	5800	5600	50	45	80	510	280	7
	81.69.	84.12		340	32	20	30	580	25	<…
	84.12	85.65	6300	4700	32			1100	600	1…
	85.65	87.32	3600	3800	36			1800	480	1…
	87.32	88.42	3200	3150	26	10	210	3900	590	1…

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: Royal George **Hole:** CCC 10 **Page:** 3.

From	To	Rec (m)	Rec (%)	Description	Structural
87.93	89.00	1.04	97	2.5 cms. coarse grained granite. 46 cms. fine grained porphyritic granite 55.5 cms. coarse grained granite	
89.00	90.53	1.45.	95	Coarse grained granite	
90.53	92.66	2.13	100.	30 cms. coarse grained granite 70 cms. fine grained dark gray porphyritic granite as above. 1.13 m . coarse grained granite.	
92.66	93.57	0.84	92	55 cms. fine grained granite as above. 16 cms. coarse grained granite. 13 cms. fine grained granite	
93.57	94.18	0.61	100	18 cms. fine grained granite. 43 cms. c.g.g.	
94.18	94.95	0.69	90.	c.g.g.	Leached and oxidised.
94.95	96.47	1.22	80.	Mixed c.g.g and f.g.g.	Part oxidised.
96.47	97.54	0.66	62.	c.g.g.	Part oxidised.
97.54	99.21	1.52	91	60 cms. c.g.g. 76 cms. fine grained porphyritic granite. 16. cms. c.g.g.	
99.21	106.68	7.47	100.	12 cms. c.g.g. 28 cms. f.g. porphyritic granite. 80 cms. c.g.g. 33 cms. f.g.g. 12 cms. c.g.g. 40 cms. f.g.g. 30 cms. c.g.g. 25 cms. c.g.g. + f.g.g. mixed. 2.56 m. c.g.g. (256 cms.).	

Assays

From	To	Sn (c.c.c.)	Sn	U	W	Pb	Zn	Cu	A[illegible]
88.42	90.83		220	16	20	25	940	30	<[illegible]
90.83	91.54	6000	5700	26	20	65	2700	1700	2[illegible]
91.54	92.66.		100	20	20	30.	840	15	<[illegible]
92.66	93.70	1900	1800	75	<10	100	4100	560	8
93.70	94.95		45	444	50	85	1600	65	5
94.95.	96.47.	600	810	640.	20	65	1500	200	3
96.47	98.19		95	276	30	50	760	50	2
98.19	99.62	1900	2000	40	10	90	2300	1400	2[illegible]
99.62	100.38		230	12	20	30	290	10	<[illegible]
100.38	101.24	3200	3200	44	<10	150	2400	770	1[illegible]
101.24	103.33		265	24	20	70	980	35	1

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: Royal George Hole: CCC10 Page: 4.

From	To	Rec (m)	Rec (%)	Description	Structural
99.21	106.68			(Cont.) 15cms. f.g. porphyritic granite 86cms. c.g.g. 10cms. f.g.g. 15cms. c.g.g. 53cms. f.g.g. 52cms. c.g.g. END OF HOLE	

Assays										CRA
From	To	Sn	Sn	U	W	Pb	Zn	Cu	Ag	
		CCC								
103.33	105.64		190	12	20	25	640	35	<1	
105.64	106.17	500	380	1300	20	450	6300	570	15	
106.17	106.68		<5	8	40	30	330	15	<1	

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: Royal George

HOLE: CCC 11

Commenced	31 OCT 67
Completed	19 DEC 67
Logged by	A.J. NOLDART
Drilled by	MINES DEPT

Purpose
To test the Royal George lode at moderate depth North of main open cut.

Comments on Completion
A significant greisen zone still exists 50m. of main open-cut, 100m. beneath surface. Some intervals in main greisen zone still had poor core recoveries.

Hole logged by J. NOLDART whose grey porphyritic granite = greisen zones in Urquhart logs.

Northing	Easting	Level	Dip	Bearing	Length
8,402	3,365	278.4	-60	58.5.	135m.

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
All	EX
	(20mm
	core)

Recovery	
Depth	%

Summary

Depth From	Depth To	Level From	Level To	Recovery %	Description	Assays Length(m)	Sn.	U ppm	W ppm	Pb%	Zn%	Cu%	Ag oz/t
100	130				Tin anomalous zones. Banded greisen and coarse	30m.							
Surf.					grained granite.	(22m ETT)							
111.94	117.27	181.5	176.8	Sig. losses 116-117.	Alternating bands. grey greisen — c.g.g.	5.33							
56.9	58.6					E.T.T. 4.0m.	0.33	27	<30	<0.01	0.09	0.04	3.

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE   Hole: CCC 11   Page: 1

From	To	Rec (m)	Rec (%)	Description	Structural
0	9.75	2.47	25	Coarse grained granite (c.g.g.)	Weathered and Oxidised.
9.75	10.13	0.38	100.	Pale gray porphyritic granite.	
10.13	17.37	5.36	74	c.g.g.	Weathered and oxidised.
17.37	32.00	14.33	98.	c.g.g.	oxidised and weathered.
32.00	43.28	10.74	95	c.g.g.	oxidised on shears and joint zones.
43.28	49.07	0	0	No core for 5.8m.	
49.07	83.36	33.83	99	c.g.g.	Oxidised 49.07–49.68, 62.9–63.86
83.36	83.52	0.16	100	Gray porphyritic granite.	
83.52	85.42	1.75	92	c.g.g.	
85.42	95.55	5.79	57	c.g.g.	Sheared and oxidised; core mostly very broken.
95.55	100.89	4.72	88	c.g.g.	
100.89	101.04	0.15	100.	Gray porphyritic granite.	
101.04	102.33	1.22	94	c.g.g.	
102.33	102.51	0.18	100	Gray porphyritic granite.	
102.51	103.51	0.68.	68.	c.g.g.	
103.51	103.63	0.12	100	Gray porphyritic granite with sulfides	
103.63	106.98	3.35	100	c.g.g.	
106.98	107.29	0.31	100	Gray porphyritic granite with sulfides.	
107.29	111.25	3.42	87	c.g.g.	Partly broken and oxidised.
111.25	111.94	0.69	100	Gray porphyritic granite with sulfides	
111.94	113.39	1.45	100.	c.g.g.	
113.39	114.45	?	?	Gray porphyritic granite.	[* Rec. uncertain, logged as 0.30 cms = 100% which is obviously wrong]
114.45					

Assays CRA.

From	To	Sn	Sn	U	W	Pb	Zn	Cu	Ag
		CCC							
0	76.2	Not Sampled.							
76.2	79.2		35	16	120	80	200	70	<1
79.2	81.99		20	12	10	15	60	5	<1
81.99	85.04		175	20	20	65	360	15	<1
85.04	88.09		55	12	20	60	290	10	<1
88.09	90.22		30	8	20	55	100	5	<1
90.22	93.27		640	112	40	30	210	40	1
93.27	96.62		250	136	20	20	660	25	1
96.62	98.76		360	64	20	115	660	25	1
98.76	100.74		190	84	20	115	440	15	<1
100.74	101.04	1100	1350	36	20	50	2400	200	2
101.04	103.17		170	24	10	20	500	35	<1
103.17	104.85		435	36	10	20	400	35	<1
104.85	106.98		85	16	20	15	150	15	<1
106.98	107.29	3300	4050	18	30	90	530	260	18
107.29	109.42		35	12	10	20	160	10	<1
109.42	111.25		155	12	20	15	500	20	<1
111.25	111.94	1500	1950	18	10	20	1100	260	3
111.94 (Logged as c.g.g.!)	113.38		5300	40	30	15	240	135	<1
113.38	114.22	2600	3300	22	20	15	590	210	2
114.22	114.60	1000	1250	24	20	30	1300	960	1[illegible]

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 11 Page: 2.

From	To	Rec (m)	Rec (%)	Description	Structural
114.45	117.04	1.83	71	Alternating 8cm – 28cm. bands of c.g.g. with 8–15cm. bands of Gray porphyritic granite.	
117.05	117.25	0.20	100	Gray porphyritic granite with sulfides	
117.25	118.41	1.07	92	c.g.g.	
118.41	120.42	1.71	85	Alternating 15–30 cms. of c.g.g. with 8–10 cm. bands of gray porphyritic granite.	
120.42	120.93	0.51	100.	Gray porphyritic granite with sulfides	
120.93	121.00	?	?	c.g.g.	Recovery shown as 38 cms.
121.00	121.31	0.31	100.	Gray porphyritic granite with sulfides	
121.31	129.24	7.47	94	c.g.g. with 10 cm. gray porphyry at 122.48m, 123.04, 126.61, 128.42. and smaller bands scattered throughout	
129.24	129.69	0.45	100	Gray porphyritic granite with sulfides	
129.69	135.03	5.03	94	c.g.g. with some small zones of Gray porphyritic granite.	
				END OF HOLE	

Assays CRA.									
From	To	Sn	Sn	U	W	Pb	Zn	Cu	Ag
		ccc.							
114.60	115.67	1500	1900	20	25	20	910	140	3
115.67	116.74	1500	2100	20	15	40	1300	940	6
116.74	117.27	4100	4500	34	10	10	1600	160	1
117.27	118.41	500	60	30	15	10	120	15	<1
118.41	119.48	900	1250	34	15	20	1300	70	1
119.48	120.40	500	330	34	15	50.	1200	65	2
120.40	120.93	1500	2150	20	10	35	1700	1800	4
120.93	121.31	600	430	18	15	20	1100	2200	1
121.31	121.62	600	820	14	20	260	1800	2000	37
121.62	122.76	500	350	26	15	15	390	350	1
122.76	123.29	800	1250	24	15	15	3100	390	<1
123.29	125.58		430	4	20	20	600	75	1
125.58	126.64		220	4	10	20	480	25	<1
126.64	127.10	1500	2100	18	30	20	700	720	6
127.10	128.47		60	8	10	60	440	30	1
128.47	129.08	700	800	26	20	65	1400	200	6
129.08	129.69	3800	4600	20	110	130	7900	180	6
129.69	130.68		60	4	20	20	185	20	<1

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: ROYAL GEORGE

HOLE: CCC 12

Commenced	19 JUN 67
Completed	26 JUL 67.
Logged by	A.J. NOLDART
Drilled by	MINES DEPT.

Purpose
To test the main Royal George lode at moderate depth beneath Northern limit of open-cut.

Comments on Completion
Recoveries through the main mineralised zone were 100%. Preciminication generally not as strong as in adjacent holes.

Northing	Easting	Level	Dip	Bearing	Length
8,361.5	3,387.0	284.8	−60°	59	155.5

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
All	EX
	[20mm core]

Recovery	
Depth	%

Summary

Depth From	Depth To	Level From	Level To	Recovery %	Description	Assays Length(m)	Sn %	W ppm	Pb %	Zn	Cu.	Ag
121.62. 60.8	126.80 65.2	179.5	175.0	100%.	Higher grade section; banded c.g.g.—greisen	5.18m.	0.30	<30	<0.01	0.14	0.07	6.
132.74 66.4	135.33 67.7	169.8	166.6	100%.	Higher grade section	[E.T.T. 4.00]						
						2.60 [E.T.T. 2.00]	0.23	19	0.01	0.14	0.04	12
121.0	135.0	180.0	167.9	100.	Broad Tin anomalous zone.	14 m						
						[E.T.T. 10.5m.]						

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: Royal George **Hole:** CCC 12 **Page:** 1

From	To	Rec (m)	Rec (%)	Description	Structural
0	17.07	13.94	82	Coarse grained biotite granite – minor tourmaline.	
17.07	18.59	0.76	50	Partly greisenised coarse grained granite (c.g.g.)	
18.59	50.60	17.07	53	c.g.g.	Oxidised in places.
50.60	62.79	11.59	95	c.g.g.	oxidised in places.
62.79	64.31	0.53	35	c.g.g.	oxidised in places.
64.31	101.35	37.04	100.	c.g.g.	
101.35	101.80	0.45	100.	Fine grained gray granite.	
101.80	105.99	2.44	58	C.g.g.	Generally oxidised and broken.
105.99	106.76	0.77	100	c.g.g. – fresh.	
106.76	107.59	0.76	92	c.g.g.	Oxidised and broken.
107.59	109.42	1.83	100	c.g.g. – fresh.	
109.42	110.49	1.07	100	Mixed dark gray granite with coarse grained zones.	
110.49	111.40	0.76	84	c.g.g.	Oxidised and broken
111.40	112.01	0.61	100	Dark gray, c.g.g.	
112.01	115.90	3.73	96	Coarse grained granite.	
115.90	117.27	1.37	100	Fine grained gray granite.	
117.27	118.11	0.76	91	Medium grained granite	
118.11	118.57	0.46	100	Mixture medium and fine grained granite with sulfides.	
118.57	119.18	0.61	100	Medium grained granite.	
119.18	119.63	0.48	100	Fine grained gray granite with sulfides.	

Assays

From	To	Sn CCC.	Sn	U	W	Pb	Zn	Cu	Ag
0	17.07		Not Sampled						
17.07	18.59		395	12	40	300	2000	86	5
18.59	100.58		NOT SAMPLED						
100.58	104.85		275	28	120	30	520	110	2
104.85	106.38	Tr.	150	26	30	110	380	22	<1
106.38	107.90	Tr.	200	46	<10	120	580	35	1
107.90	109.42	Tr.	350	32	10	240	930	38	<1
109.42.									
109.42	110.49	1000	1500	60	15	150	2900	90	3
110.49	112.01	Tr	680	70	<10	100	1200	55	<1
112.01	113.23	Tr	560	32	<10	95	1600	40	<
113.23	114.45	Tr	110	40	<10	75	710	15	<
114.45	115.90	Tr	770	70	<10	170	500	65	<
115.90	117.20	Tr	350	55	10	120	960	50	<
117.20	118.4	1800	2350	28	20	140	410	30	<
118.4	119.63	Tr.	560	34	<10	100	780	70	<

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 12 Page: 2.

From	To	Rec (m)	Rec (%)	Description	Structural
119.63	120.78	1.15	100	Medium grained granite	
120.78	121.62	0.84	100	c.g.g.	
121.62	122.68	1.06	100	Fine grained gray granite with sulfides	
122.68	124.05	1.37	100	Mixed coarse grained granite and gray f.g.g.	
124.05	125.58	1.53	100.	c.g.g., gray in part	
125.58	128.02	2.44	100.	Mixed c.g.g. – f.g.g. with sulfides	
128.02	130.91	2.89	100	c.g.g.	
130.91	135.33	4.42	100	Mixed c.g.g – f.g.g. (gray.) — porphyritic in part and sulfides throughout.	
135.33	138.99	3.66	100	c.g.g.	
138.99	139.67	0.68	100.	Fine grained aplitic granite with minor sulfides.	
139.67	140.67	1.0	100	c.g.g.	
140.67	142.19	1.52	100	Fine grained aplitic granite	
142.19	155.22	13.03	100	c.g.g.	
155.22	155.5	0.28	100	Mixed c.g.g. and gray granite with sulfides.	
				END OF HOLE	

Assays CRA.									
From	To	Sn	Sn	U	W	Pb	Zn	Cu	As
		ccc							
119.63	120.78	Tr.	300	30	25	95	800	70	<1
120.78	121.62	Tr.	100	36	<10	70	340	30	<1
121.62	122.83	1800	2150	24	30	110	2500	1400	15
122.83	124.05	7000	7400	36	20	85	1100	390	3
124.05	125.58	Tr	860	32	10	75	640	85	<1
125.58	126.80	1000	2050	28	35	110	1500	890	11
126.80	128.02	Tr.	580	28	25	45	810	230	1
128.02	130.91		230	20	230	20	960	170	1
130.91	131.83	1000	1300	38	15	50	1400	290	3
131.83	132.74	Tr	1300	30	20	45	750	170	1
132.74	133.65	2800	3350	38	15	180	2900	600	26
133.65	134.57	1000	1800	22	10	70	910	290	5
134.57	135.33	1000	2000	22	30	65	1300	340	6
135.33	138.99		60	16	130	15	580	70	<1
138.99	139.67	Tr.	300	32	<10	60	780	55	1
139									
139.67	140.67		30	24	140	15	270	80	<1
140.67	142.19	Tr	130	<4	10	75	570	28	1
142.19	146.30		185	16	120	15	580	75	<1
146.30	150.57		35	16	140	20	280	80	<1
150.57	155.45		170	16	110	25	660	80	<1

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: ROYAL GEORGE

HOLE: CCC 13

Commenced	11 SEP 67
Completed	24 OCT 67
Logged by	A.J. NOLDART
Drilled by	MINES DEPT.

Purpose
To test central portion of main Royal George lode at moderate depth.

Comments on Completion
Recoveries in deeper holes beneath weathered zone generally good. Unfortunately 1.2m. lost in critical ore zone area.

Northing	Easting	Level	Dip	Bearing	Length
8,265	3,444	294.1	−60	060	153.9

Surveys		
Depth	Dip	Bearing

Size	
Depth	Size
EX (20mm. core)	

Recovery	
Depth	%
133.88–135.33	21

Summary

Depth		Level		Recovery	Description	Assays					
From	To	From	To	%		Length(m)	Sn%	Uppm	Zn	Cu	Ag(g/t)
119	138.			100% except 133-135	Tin anomalous zone >0.1 generally.	19m. [ETT. 14.5m.]					
Incl.					Alternating bands c.q.g. & greisen.						
119.79	126.72			100%		6.93 [	0.22	22	0.09	0.04	5.
59.9 Incl.	63.4					[ETT. 5.3m]					
124.66 62.3	126.72 63.4	186.1	184.4	100%.		2.06 [E.T.T 1.6m.]	0.49	23	0.12	0.07	8
132.89 66.4	138.23 69.1	179.0	174.4	1.2m. core loss in critical zone.		5.34 [ETT 4.1m]	0.52	24	0.16	0.12	22.

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 13 Page: 1.

From	To	Rec (m)	Rec (%)	Description	Structural
0	14.02	10.87	77	Fine - medium grained quartz - biotite granite with some smokey quartz and tourmalinisation	Weathered, becoming fresher towards end.
14.02	27.13	12.34	94	Medium - fine grained pale gray granite becoming porphyritic.	
27.13	31.70	4.42	97	Medium grained porphyritic granite - coarse in parts.	
31.70	45.40	12.57	92	Medium grained porphyritic granite, last 60 cms. dark green in color.	
45.40	52.43	6.71	95.	m - c.g.g., large phenos. plagioclase	
52.43	92.66	39.17	97	c.g.g.	
92.66	93.57	0.91	100.	Fine - medium grained gray granite.	
93.57	97.84	4.27	100.	Medium grained gray porphyritic granite grading to c.g.g.	
97.84	107.59	9.60	98	c.g.g.	
107.59	108.20	0.61	100	m - f.g.g.	
108.20	117.04	8.61	97	c.g.g., grading dark gray.	
117.04	117.20	0.16	100	Dark gray porphyritic granite with minor sulfides.	
117.20	118.03	0.83	100	c.g.g.	
118.03	118.26	0.23	100	Dark gray porphyritic granite, minor sulfides.	
118.26	119.79	1.53	100	c.g.g.	

Assays — CRA.

From	To	Sn	Sn	U	W	Pb	Zn	Cu	Ag
		C.C.C.							
0	92.66	NOT			SAMPLED.				
92.66	95.71		80	276	110	20	720	85	<1
95.71	98.76.		10	20	120	10	195	60	<1
98.76.	101.96		40	20	140	20	250	70	<1
101.96	104.85		15	24	120	20	125	40	<1
104.85	107.30		15	16	90	15	150	50	<1
107.30	109.73		10	24	110	20	140	45	<1
109.73	111.25		50	24	20	20	60	5	<1
111.25	112.78		35	36	20	50	50	5	1
112.78	114.60		20	56	20	10	40	5	<1
114.60	116.89		30	12	20	10	50	5	<1
116.89	118.26	2500	500	36	10	270	1200	100	6
118.26	119.79	900	150	32	<10	95	340	30	1
119.									

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE   Hole: CCC 13   Page: 2

From	To	Rec (m)	Rec (%)	Description	Structural
119.79	120.40	0.61	100	Dark gray porphyritic granite — minor sulfides.	
120.40	120.85	0.45	100	c.g.g.	
120.85	121.38	0.53	100	Dark gray porphyritic granite	
121.38	121.69	0.31	100	c.g.g.	
121.69	122.61	0.92	100.	Dark gray porphyritic granite mixed with c.g.g., some sulfides	
122.61	124.59	1.98	100	Coarse grained porphyritic granite — some sulfides.	
124.59	124.89	0.30	100	Dark gray porphyritic granite.	
124.89	125.04	0.15	100	c.g.g.	
125.04	125.42	0.38.	100	Dark gray porphyritic granite	
125.42	125.96	0.54	100	c.g.g.	
125.96.	126.72	0.76	100.	Dark gray porphyritic granite.	
126.72	127.33	0.61	100.	c.g.g.	
127.33	128.32	0.99	100.	Coarse grained porphyritic granite — some sulfides.	
128.32	130.23	1.91	100.	Dark gray porphyritic granite — heavy sulfides	
130.23	132.44	2.21	100	c.g.g.	
132.44	132.89	0.45	100.	Mixed coarse grained and gray porphyritic granite.	
132.89	133.88	0.99	100.	Dark gray porphyritic granite — heavy sulfides.	
133.88	135.33	0.30	21	CORE LOSS — recovered 30 cms. only of dark gray porphyritic granite with heavy sulfides.	

Assays CRA.

	From	To	ccc	Sn	U	W	Pb	Zn	Cu	Ag
	119.79	120.40	3500	3150	24	15	360	1200	210	10
	120.40	121.92.	1200	1150	20	30	110	710	540	7
	121.92	123.29	700	640	24	15	35	830	80	1
	123.29	124.66	900	430	20	15	45	560	42	1
	124.66.	125.96	3000	3450	22	20	160.	1200	410	4
	125.96	126.72	6900	7400	24	50	200	1400	1300	1[illegible]
	126.72	127.40.	<500	680	32	25	90	720	80	2
	127.40	128.32	<500	700	24	15	470	1300	80	4
	128.32	130.23	1200	1150	24	35	110	750	1200	1[illegible]
	130.23	132.44	<500	330	24	20	20	330	50	<
	132.44	132.89	500	900	24	15	45	890	160	2
	132.89	133.88	3400	3850	20	20	180	1800	840	2
CORE →	133.88	135.33		1.68%	4	90	170	540	880	1[illegible]
CORE + SLUDGE → AVERAGED	133.88	135.33		8270	25			860	900	1

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: CCC 13 Page: 3.

From	To	Rec (m)	Rec (%)	Description	Structural
135.33	136.93	1.60	100	Dark gray porphyritic granite with heavy sulfides.	
136.93	137.31	0.30	79	c.g.g.	
137.31	138.07	0.76	100	Dark gray porphyritic granite.	
138.07	138.23	0.16	100	c.g.g.	
138.23	138.30	0.07	100	Dark gray porphyritic granite.	
138.30	138.84	0.54	100.	c.g.g.	
138.84	139.37	0.53	100	Dark gray porphyritic granite	
139.37	153.92	12.80	88	c.g.g.	
				END OF HOLE	

Assays CRA									
From	To	Sn	Sn	U	W	Pb	Zn	Cu	Ag
		ccc							
135.33	136.93	4300	5250	24	70	160	1700	2500	4
136.93	138.23	1900	2800	24	35	80	2300	400	8
138.23	138.84	1900	1600	26	15	100	1100	200	10
138.84	139.37	<500	730	26	15	100	1300	180	6
139.37	140.89	<500	490	28	15	25	560	65	<1
140.89	142.65		240	20			170	20	<1
142.65	144.48		960	28			580	330	3
144.48	149.35		270	28	140	25	700	125	<1
149.35	153.92		180	12	120	15	310	70	<1

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: ROYAL GEORGE

HOLE: RGC 1

Commenced	17 SEP 79
Completed	24 SEP 79
Logged by	G. PURVIS
Drilled by	LONGYEAR.

Purpose

To test the northern section of the Royal George deposit at depth.

Comments on Completion

Granite (e.g.g. & minor f.g.g.) in the anomalous 180-266m. & sig. sulphides. Main grecisined zone 221-229. (8m ETT 6m.) — low tin, mod. Zn + Cu, Ag.

Northing	Easting	Level	Dip	Bearing	Length
		283.	-58	059 AMG	266.4

Surveys

Depth	Dip	Bearing
55.0	59.75	59.5.
99	60.33	60.5.
150	60.33	61.25
202	60.00	62.33
250	60.0	66.25.

Size

Depth	Size
0-3	HQ.
3-266	NQ.

Recovery

Depth	%
0-266.	100

Summary

Depth From	Depth To	Level From	Level To	Recovery %	Description	Assays Length(m)	Sn. ppm	U	W	Zn.	Cu.	Ag.
221	229	91.6	84.7.	100%	Tin anomalous greisen.	8m (ETT 6m)	645	25	<50	1328	1038	22.
110.5	114.5				Including.							
221	223			100		2m (ETT 1.5m)	0.11 %	25 ppm	37 ppm	0.12 %	0.05 %	7.
110.5	111.5											

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: *ROYAL GEORGE* Hole: *RGC 1* Page: *1*

From	To	Rec (m)	Rec (%)	Description	Structural	Assays From	Assays To				
0	3	0	0	Tricone'd.							
3	17.8	14.05	95	Medium Grained Granite: Creamy gray qtz-felspar-biotite granite with minor tourmaline. Some porphyritic felspars up to 3cms. and qtz. to 1cm. but mostly ≤5mm.	Slightly oxidised. Many felspars altered to lime green color (sericite?) Minor muscovite and sericite - esp. adjacent to crumbly shears, 5.4-7.8m. Fractures mostly 30-40° C.A. 11.95m: 2mm. felspar vein 15° C.A. 15.20m: 2mm limonite vein 45° C.A.						
17.8	91.00	73.00	99	Coarse grained Porphyritic Granite Hard, creamy gray, qtz-felspar-biotite granite. Composed mainly of euhedral to subhedral tabular felspars up to 50mm., average 15-20mm. Qtz. up to 15mm, average 5-10mm. Grainsize decreases with depth. Hardness also. Minor tourmaline in interstitial aggregates to 40mm., usually < 5mm. Some associated hyprite (?). Trace purple fluorite. Gradual change at base.	Patchy oxidation often associated with fracturing. Brown and red iron oxides. Moderate to strong alteration - pale green sericite, muscovite (rare) and clay minerals (rock soft in places). Pink coloration of felspars below 55m. Trace chlorite below 55m. Numerous joints, shears, fractures, 5-50°/C.A., often with sericitic clay. 26m: felspars oriented 45°/C.A. 41.5-43: Oxidised and sheared rock. Shearing 0-30°/C.A. 43.5: Felspars oriented 45°/C.A. 58-68: Very strong oxidation with numerous clayey and limonitic sheares and broken zones. Major shear zone 50°/C.A. at 66.4-67.7. 76.8: 50mm. greisen band 15°/C.A. - tourm., sericite, muscovite - qtz. 77-78.2: Clayey and broken; 15-35°/C.A. 87.9-88.5: Clayey shear // C.A. 88.85: 60mm. siliceous greisen 55° C.A. with 5mm. qtz. limonite vein in centre 89-89.5: Rare Py + Chalcopy.						

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: RGC 1 Page: 2

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From	To	Rec (m)	Rec (%)	Description	Structural
91.0	104.55	13.55	100	Siliceous Coarse Porphyritic Granite: As before except more siliceous, harder and essentially unoxidised. Abundant large felspars up to 50mm, average 20mm. Qtz. average 10mm. Much biotite and tourmaline. Basal contact 45°/c.A.	Weak, moderate alteration – minor yellow-green sericite, pink felspars, and minor muscovite. Few fractures – one at 95.25m at 40°/c.A, faced with gal. > py. > ccp. 93.5–100m: Rare py > ccp. Below 180m – some oxidation, increasing. Minor clayey fractures.
104.55	114.15	9.60	100.	Fine grained granite: Extremely hard, greenish-grey. Most qtz.–felsp–biotite grains 2-3mm. Some coarser grained patches often associated with clots of tourmaline. Some interminced coarse grained granite. Gradual contact at base.	Weakly altered pale green sericite and minor muscovite. Oxidised in places, especially along fractures. Very minor py > ccp. Trace galena. 106.6: 100mm. oxidised muscovite-rich zone 45°/c.A. 106.9: Ditto: 40°/c.A.
114.15	219.45	105.30	100	Coarse Grained Porphyritic Granite as before. Grainsize decreases slightly with depth. Rock becoming very hard and increasing siliceous with depth. Alteration (pink felspars, sericite, minor muscovite, rare chlorite) increasing with depth, especially below 182m. Increasing amount of purple fluorite with depth. Minor tourmaline. Minor bands and patches of hard, fine grained granite: 121.75–123.3m: 55°/c.A. 132.8–134.7m: 35°/c.A. 194.2–195.5m: 35°/c.A.	Patchy oxidation, mainly around fractures above 150m. Most fractures below 120m have sulfides, chlorite and fluorite on them, and often have "greisen" selvages up to 30mm. wide (greisen = qtz.–sericite–muscovite) Minor disseminated fine py > sp. with trace ccp., asp., gal., increasing with depth to 1–2% between 170–200m, and 3–5% below 200m. 127.2–128.3: "Greisen" zone 45°/CA Qtz.–ser–musc.–chlor–fluor 3% py > sp. > ccp.

Assays								
From	To	Sn	U	W	Pb	Zn	Cu	Ag
115	120	60	36	100	40	160	80	1
120	125	100	40	80	30	250	55	1
125.0	127.20	70	340	50	60	330	50	1
127.20	128.30	310	44	<10	600	2000	230	11
128.30	130.0	50	40	<10	20	140	20	1
130.0	135.0	60	40	<10	20	320	25	1

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE **Hole:** RGC 1 **Page:** 3.

From	To	Rec (m)	Rec (%)	Description	Structural
114.15	219.45			(Cont.) Felspar lineation 155m: 45°/c.A. Numerous "greisen" bands – increasing with depth. "Greisen" = altered zones composed of qtz. – sericite – muscovite – fluorite – tourmaline – chlorite – sulfides.	136.05: 8mm py > sp. – qtz – chlorite vein. 45°/c.A. with 3% py. > sp. in 15 cm. selvage. 137.4 – 137.65: 12 cm. true width sulfide – chlorite qtz. band. 5-7% py. > sp. > asp. 142.15: 15mm. qtz – py. – chlor. vein 35°/c.A. 146.45 – 146.7m: 5-7% py – sp – cp. associated with fractures 40°/c.A. 148.7m: 50mm siliceous greisen 30°/c.A. with 4% py. > sp. 173.3 – 174.6: Clayey broken zone fractures // c.A. 182.9m: 80mm. greisen band 35°/c.A. 5% py > sp > cp. 185.5m: 50mm. greisen band, 45°/c.A.; 3% py – sp. Trace cp. 187.9: 50mm greisen band 40°c.A. 3% sp. – py. > cp. 190.9 – 191.15: Sulfidic zone 40°/c.A. 5% py. > sp. Trace cp. 191.15 – 191.7: 40°/c.A. Sulfidic zone 3 – 5% py. ~ sp. > cp > asp. 192.5 – 192.75: 40°/c.A. Strong greisen band. 5% py > sp. > cp.

Assays

From	To	Sn	U	W	Pb	Zn	Cu	Ag
135.0	140.0	55	24	10	90	1300	20	1
140.0	143.0	70	224	30	30	370	30	4
143.0	146.0	80	36	50	35	200	35	3.
146.0	149.0	75	32	40	25	580	30	1
149.0	152.0	45	24	20	10	240	20	1
152.0	155.0	35	20	20	15	105	15	1.
155.0	158.0	75	24	20	10	150	20	<1
158.0	161.0	40	20	20	10	100	15	1
161.0	164.0	50	32	10	15	90	20	<1
164.0	167.0	35	24	10	10	100	15	<1
167.0	170.0	55	36	20	10	80	15	<1
170.0	173.0	40	24	20	10	145	20	<1
173.0	176.0	80	28	20	15	270	30	1
176.0	179.0	105	24	30	20	290	20	<1
179.0	182.0	65	32	20	10	140	15	<1
182.0	185.0	175	24	30	20	880	60	1.
185.0	188.0	220	16	20	20	580	30	1
188.0	191.0	130	36	20	15	260	35	1
191.0	194.0	475	32	30	25	1300	55	1

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: RGC 1 Page: 4

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From	To	Rec (m)	Rec (%)	Description	Structural
114.15	219.45			(Cont.)	
				193.10 : 70mm. Greisen band, 40°/c.A. 7% py > sp. > ccp.	
				201 : 60mm greisen band 40°/c.A. 7% sp. > py.	
				202 – 202.4 : Greisen 45°/c.A. with 5% py. > sp. Trace ccp. – asp.	⇒
				204.2 – 204.6 : Diffuse chloritic greisen band centered on 50mm. of solid sp. 40°/cA at 204.4. 5% py – sp.	
				210.2 : 100mm. fracture zone. 40°/c.A. qtz. + py.	
					?
					211.6 : 50mm greisen band 45°/cA. 7% py. > sp. > ccp > gal.
					212.05 : 80mm. greisen band 50°/c.A. 7% py. > sp. > ccp – asp – gal.
					212.45 : 80mm. greisen 40°/cA. 7% py > asp. – sp. > ccp.
					212.65 : 60mm. greisen 45°/c.A. 10% sp. > py. > ccp.
					213.25 : 50mm. greisen 35°/c.A. 7-10% py. > asp. – sp. > ccp.
					214.70 : 50mm. greisen 35°/c.A. 10% py. > sp. > ccp.
					215.3 : 50mm. greisen 40°/c.A. 5-7% py > asp. > sp.
					216.0 : 80mm. greisen 40°/c.A. 7% py. > asp. > sp – ccp.
					217.5 : 5mm. qtz. vein with asp. 40°/c.A. with 40mm. greisen selvage – 10% py. > asp.

Assays								
From	To	Sn	V	W	Pb	Zn	Cu	Ag
194.0	197.0	110	20	10	15	180	40	1
197.0	200.0	405	24	20	20	250	30	1
200.0	201.0	320	22			690	40	1
201.0	202.0	200	16			770	55	1
202.0	203.0	410	14			2300	75	2
203.0	204.0	210	22			210	42	1
204.0	205.0	290	20			2.8%	990	60
205.0	206.0	240	24			310	42	1
206.0	207.0	260	22			170	35	1
207.0	208.0	320	22			220	60	1
208.0	209.0	280	22			140	40	<1
209.0	210.0	280	24			90	42	<1
210.0	211.0	280	28			150	42	<1
211.0	212.0	350	26			500	55	1
212.0	213.0	820	24			1000	85	3
213.0	214.0	270	26			450	65	2
214.0	215.0	280	24			290	48	1
215.0	216.0	420	24			490	100	3
216.0	217.0	370	28			390	70	2
217.0	218.0	230	26			230	65	<1
218.0	219.0	230	26			400	65	<1
219.0	220.0	300	30	30		590	150	3

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: RGC 1 Page: 5

From	To	Rec (m)	Rec (%)	Description	Structural & Mineralisation
219.45	229.45	10.00	100	Mineralised Zone: Gray, hard, highly altered siliceous zone comprising quartz-muscovite-sericite with minor tourmaline, chlorite and fluorite. Remnant qtz. and felspars show host rock is coarse grained granite, except between 224.15 and 225.15 m.	219.45–226.50: 5–20%, av. 10–12% disseminated sulfides py > sp. – chalco > asp. Rare gal. and pyrr. 226.50–229.45: Av. 8–10% py. > sp. > asp. > ccp. Rare magnetite associated with chlorite and galena.
229.45	231.70	2.25	100	Coarse grained porphyritic granite. As before; Large porphyritic euhedral felspars up to 40mm. Altered with minor sericite and muscovite.	3% py >> sph. – ccp. 229.85: 70mm. greisen band 40°/c.A, 5% py >> sp. – ccp. Several greisen bands <20mm.
231.70	233.80	2.10	100	Fine Grained granite: Extremely hard, yellowish gray. Little biotite. Much tourmaline, some fluorite. Crystal lineation 45°/c.A. Altered – minor sericite and muscovite Upper and lower hazy contacts.	3% pyrite. Trace sp – asp. Much in fractures 45°/c.A. with tourmaline and thin greisen selvages.
233.80	247.95	13.90	98	Altered Coarse Grained Granite: As before, hard and siliceous. Altered with sericitic felspars and much patchy qtz – sericite – muscovite greisen, esp. near fractures. Biotite, tourmaline, fluorite, chlorite common accessories. Basal Contact 80°/c.A.	Numerous 'greisen' bands < 50mm decreasing below 243.50m. 233.8 – 243.5: 3–5% py. > sph. Tr. ccp – asp. Trace Cassiterite? below 238. 243.5 – 247.95: 2% py. > sph. > ccp. asp.

Assays							
From	To	Sn	U	W	Zn	Cu	Ag
220	221	530	26	20	840	580	8
221	222	1150	26	40	980	440	9
222	223	1050	24	35	1400	480	5
223	224	450	28	65	560	640	11
224	225	100	26	50	400	2500	80
225	226	120	28	30	290	2500	41
226	227	750	24	55	2800	1100	15
227	228	540	22	20	2100	280	9
228	229	1000	22	20	2100	360	9
229	230	250	30	<10	530	290	6
230	231	150	28	20	170	65	<1
231	232	320	32	20	220	38	<1
232	233	120	30	20	230	35	<1
233	234	150	26	20	85	55	<1
234.0	234.75	820	24		670	990	20
234.75	236.0	270	28		140	90	1
236.0	237.0	180	28		170	65	<1
237.0	238.5	980	20		420	100	1
238.5	240.0	800	22		210	65	<1
240.0	241.5	640	26		150	55	<1

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: RGC 1 Page: 6

From	To	Rec (m)	Rec (%)	Description	Structural & Mineralisation	Assays From	To	Sn	U	W	Pb	Zn	Cu	Ag
233.80	247.95			(Cont.)	234.3–234.65: 'Greisen' band 55°/cA 7% py > sph. – asp. > ccp.	241.5	242.50	520	14			680	100	2
					234.60–234.95: Fault 60°/cA (10 cm. core loss + water return lost) Brecciated qtz + felsp. in matrix of massive py. – sericite + fluorite.	242.50	243.5	200	20			190	75	1
						243.5	245.0	140	24			180	42	<1
						245.0	246.5	380	22			160	45	<1
						246.5	247.75	240	30			110	35	<1
					Shearing extends to 236.5. Rock soft, clayey and sericitic. Badly broken 236–236.50 (15 cm. core lost) Some greisen in patches and along fractures.									
					241.95–242.25: 'Greisen' band with 5–7% py > sph. > ccp.									
					242.90–243.20: Diffuse greisen bands + sulfidic fractures 40°/cA 5–7% py > sph.									
					243.45 : 50 mm. greisen bands 45°/cA; 7% py > sph. > asp.									
247.95	253.75	5.80	100	Fine Grained Granite: Gray, extremely hard; Most qtz. and felspar ≤ 2 mm. Biotite and tourmaline. Crystal lineation 50°/c.A. Minor sericitisation of felspars and very minor muscovite. Minor intercalations of coarser grained granite at top and bottom of interval. Basal contact 60°/c.A.	1–2% pyrite. Tr. ccp – sph. Except 252.2–252.75: 3–5% py. > sph. – ccp, mostly in fractures 45°/c.A.	247.75	249.0	150	32			130	50	<1
						249.0	250.0	150	38			48	32	<1
						250.0	253.0	190	24	<10	20	130	35	1
					252.7: 13 mm. pyrite shear zone 50°/c.A.									
253.75	266.40	12.65	100	Coarse grained Granite: As before. Gray, hard. Qtz – felspar – biotite ±	1–2% py. Trace ccp – sph. Decreasing with depth.	253.0	256.0	130	28	10	20	240	65	1
						256.0	259.0	155	32	20	15	190	50	<1
						259.0	262.0	175	24	<10	15	270	90	1

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE **Hole:** RGC 1 **Page:** 7.

From	To	Rec (m)	Rec (%)	Description	Structural & Mineralisation.
253.75	266.40			(Cont.) minor tourmaline and fluorite. Weak - moderately altered as usual - sericite, muscovite and trace chlorite (mainly assoc. with muscovite below 260.5) END OF HOLE.	254.6-255.75: Major fault zone. Rock brecciated, fractured and slickensided at 50 & 85°/c.A. Numerous py. veinlets c̄ fluorite. Overall 5% py. 261.15-261.30: Greisen band 50°/c.A. 3% py > cp.-sph > asp. 263.8: 50mm. greisen 40°/c.A. 5-7% asp. > py > sph.-cass.? 264.7-265.15: Greisen 45°/c.A. 5% sph. > py. 265.35: 80mm. greisen; 55°/c.A. 5-7% sph. > py.

Assays								
From	To	Sn	U	W	Pb	Zn	Cu	Ag.
262.0	263.25	115	16	20	10	90	50	1
263.25	264.70	1300	24	<10	55	420	35	1
264.70	265.50	520	28	10	25	6800	110	3
265.50	266.40	200	40	80	20	600	105	1

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: ROYAL GEORGE

HOLE: S1

Commenced	10 AUG 89
Completed	17 AUG 89
Logged by	M.V. McKEOWN
Drilled by	WAYNE HOW

Purpose
To test the Royal George lode beneath and to the North of the former U/G workings.

Comments on Completion
Mineralisation weakly developed. Narrow greisen veined coarse grained granite unit anomalous in Zn, As, Bi, Cd, U. 100% Recovery through greisenised zone.

	Northing	Easting	Level	Dip	Bearing	Length
AMG	5 368 359	573 419	288·1	-50°	056½°	127·4

Surveys		
Depth	Dip	Bearing
30m	-50°	056½°
60m	-50½°	057½°
90m	-51°	058½°
120m	-51°	058°

Size	
Depth	Size
127·4	HQ

Recovery	
Depth	%

Summary

Depth		Level		Recovery	Description	Assays						
From	To	From	To	%		Length(m)	Sn	Cu	Pb	Zn	As.	S. %
73.4	75.8			100.	Gray greisen bands within cream-gray coarse	2.4	0.47	0.09	0.02	0.31	0.19	2.5.
					grained granite.	E.T.T. 2.0m.						
							Ag	Sb	Bi	Cd	U g/t.	
							23	14	36	72.	41	

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Project: ROYAL GEORGE   Hole: 51   Page: 1

From	To	Rec		RQD	
0.0	2.0	0.0	0	N.A.	-
2.0	4.4	2.40	100	2.00	83
4.4	7.7	3.30	100	2.90	88
7.7	10.1	2.40	100	2.10	88
10.1	13.2	3.10	100	1.77	57
13.2	16.3	3.10	100	3.05	98
16.3	19.4	3.10	100	3.05	98
19.4	22.4	3.00	100	2.75	92
22.4	25.4	3.00	100	2.60	87
25.4	28.4	3.00	100	2.80	93
28.4	31.4	3.00	100	2.55	85
31.4	34.4	3.00	100	2.42	81
34.4	37.4	3.00	100	0.55	18
37.4	40.4	3.00	100	2.95	98
40.4	43.4	3.00	100	3.00	100
43.4	46.4	3.00	100	2.00	67

Description

0.00 - 14.20

SLIGHTLY WEATHERED CREAM AND GREY COARSE GRAINED GRANITE

Cream-white sub to euhedral feldspar (up to 5 cm long), dark, glassy subhedral quartz, accessory biotite and black tourmaline, sparse pyrite after feldspar, traces of sericite/muscovite.

The granite is ironstained throughout especially along and adjacent to joints.

The contact with the next interval is gradational (due to weathering)

14.20 - 45.30

GENERALLY FRESH CREAM AND GREY COARSE GRAINED GRANITE

As between 0.00m and 14.20m but not weathered and ironstained except adjacent to joints

The contact with the next interval is a sharp, planar joint at 40° to C.A.

Structural

0.00 - 14.20

The rock is partly broken but generally intact except adjacent to joints. This is particularly noticeable where joints are subparallel to the C.A. e.g. between 11.9m & 13.0m.

Joint frequency is 2 to 3/m. Most common orientation is at 40°-50° to C.A. Occasional low angle joints occur at 0°-30° to C.A.

14.20 - 45.30

The rock is generally intact with broken zones adjacent to joints:

29.3 - 30.0 very broken core

33.7 - 37.4 broken and very broken core

Joint frequency is 1 to 2/m. Most common orientation is at 40°-50° to C.A.

Three low angle (20°-30° to C.A.) joints occur between 33.7 and 34.1 m

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE   Hole: S1   Page: 2

From	To	Rec		RQD	
46.4	49.4	3.00	100	2.10	70
49.4	52.4	3.00	100	2.97	99
52.4	55.4	3.00	100	2.96	99
55.4	58.4	3.00	100	2.90	97
58.4	61.4	3.00	100	3.00	100
61.4	64.4	3.00	100	3.00	100
64.4	67.4	3.00	100	2.90	97

Description

45.30 – 46.70

COMPLETELY UNCONSOLIDATED GRANITE as between 0.00 and 45.30 but completely unconsolidated due to the conversion of feldspar to clay and pinite

Structural: The rock is completely unconsolidated : R.Q.D. = ϕ.

46.70 – 65.12

GENERALLY FRESH, CREAM AND GREY COARSE GRAINED GRANITE WITH MINOR GREY GREISEN VEINS.

Cream sub to euhedral feldspar, dark, glassy, subhedral quartz, accessory biotite and black tourmaline, sparse pinite (after feldspar), sparse brown-orange clay? alteration of feldspar, occasional ironstaining adjacent to joints

49.23 – 49.37 GREISENIZED GRANITE
45° 0.10 quartz, green mica, accessory biotite, feldspar near contacts, gradational contacts, slightly vuggy, traces of arsenopyrite and sphalerite ?

51.00 – 51.05 GREISENIZED GRANITE
45° 0.04 as between 49.23 & 49.37, sparse sphalerite in veinlet, traces of arsenopyrite dissns.

Structural: The rock is generally intact. A small zone of broken / unconsolidated core occurs from 57.40 to 57.50.

Joint frequency is 1 – 2 / m. Most common orientation is at 40° – 65° to c. A. i.e. subparallel to greisen veining.

Low angle joints are infrequent.

Assays

From	To				

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S1 Page: 3

From	To	Rec	RQD	Description	Structural
				56.00 - 56.10 GREISENIZED GRANITE as between 49.23 & 49.37, slightly vuggy.	
				56.90 - 57.05 GREISENIZED GRANITE as between 49.23 & 49.37, slightly vuggy.	
				61.45 - 61.60 GREISENIZED GRANITE 45° 0.07 as between 49.23 & 49.37 slightly vuggy, sparse pyrite, traces of arsenopyrite, sparse ironstaining.	
				61.80 - 61.90 GREISENIZED GRANITE 45° 0.07 as between 61.45 & 61.60, slightly vuggy, sparse pyrite, traces of arsenopyrite.	
				63.22 - 63.30 GREISENIZED GRANITE 45° 0.05 as between 49.23 & 49.37	
				Thin veinlets with green and brown-green (ironstained?) mica veinlets (≤ 2mm true thickness) occur occasionally throughout the interval e.g. at 57.60m and 64.45 m. Average orientation of these veinlets is 40°-50°. A few contain traces of sulphides The contact with the next interval is "planar diffuse".	

Assays						
From	To	Sn%				
61.40	61.95	0.15				

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Project: ROYAL GEORGE Hole: S1 Page: 4

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From	To	Rec		RQD		Description	Structural
						65.12 - 65.42 GREY GREISEN Grey and white quartz, minor green mica, sparse ironstained mica near contacts, traces of biotite? and black tourmaline, very slightly vuggy, sparse to minor pyrite, trace arsenopyrite, trace sphalerite?, trace pink-brown cassiterite. The greisen is at 50° to c.A. True thickness is 0.25m.	The rock is intact. No joints occur BUT the greisen is detached from the enclosing rock at both contacts.
67.4	70.4	3.00	100	2.20	73	65.42 - 68.28 CREAM AND GREY COARSE GRAINED GRANITE WITH MINOR GREY GREISEN VEINS Cream sub to euhedral feldspar, dark, glassy quartz, accessory biotite and black tourmaline, sparse brown-orange alteration of feldspars to clay, sparse to minor ironstaining on and adjacent to joints and fractures, occasional hairline mica veinlets at 40°-50° to c.A. 65.80 - 65.95 GREY GREISEN 50° 0.11 grey quartz, green mica, accessory biotite? and black tourmaline, very sparse vughs, sparse brown ironstained mica, sparse pyrite, trace asp, sparse pink-brown cass.	The rock is generally intact. Parting/jointing occurs within greisen veins or at/near greisen/granite contacts: such jointing occurs at a frequency of 1/m in ungreisenized granite but at frequencies up to 7/m in greisen-granite zones. The granite from 68.20 to 68.28 is decomposed/decomposing adjacent to the following greisen contact.

Assays

From	To	Sn %	Cu	Pb	Zn	Ag g/t.	Sb g/t	Bi g/t.	As %
65.10	66.30	0.51	0.03	0.02	0.10	14	<10	11	0.06
							Cd g/t	U g/t	S %
							21	33	0.98
			Cu	Pb	Zn	As	S %.		
66.30	67.35	<0.01	<0.01	<0.01	<0.02	<0.01	0.05		
			Ag	Sb	Bi	Cd	U g/t.		
			<12	<10	<5	<15	21		

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S1 Page: 5

From	To	Rec		RQD		Description	Structural
						66.14 - 66.29 GREY GREISEN 45° 0.11 as between 65.80 & 65.95, sparse pyrite, trace sphalerite	
						67.37 - 67.60 GREY GREISEN 50° 0.18 as between 65.80 & 65.95 slightly vuggy, sparse to minor pyrite mostly in veinlets, sparse cassiterite in veinlets.	
						68.28 - 68.62 GREY GREISEN as between 65.80 & 65.95, slightly vuggy, minor vuggy pyrite in veins and as disseminations, trace arsenopyrite and sphalerite disseminations The greisen is at 45° to C.A. True thickness is 0.26m.	The greisen itself is intact; parting/jointing occurs adjacent to both contacts.
70.4	73.4	3.0	100	2.45	82	68.62 - 72.28 PARTLY WEATHERED CREAM AND GREY COARSE GRAINED GRANITE WITH MINOR GREY GREISEN VEINS as between 65.42 & 68.28 with extensive alteration of feldspar to clay between 68.62 & 69.15, ironstained adjacent to fractures and ironstained microfractures in some feldspars. OVER	The rock is generally unweathered although it is ironstained; the granite from 68.62 to 69.15 is decomposed due to alteration of feldspar to clay. OVER

Assays							
From	To	%Sn	Cu	Pb	Zn	As	S.
67.35	68.65	0.24	0.02	0.01	0.09	0.17	1.30 %
		Ag	Sb.	Bi	Cd	U	g/t
		<12	<10	19	18	53	

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S1 Page: 6

From	To	Rec (m)	Rec (%)	Description	Structural
				69·15 - 69·30 GREY GREISEN 50° 0·10 as between 65·80 & 65·95, slightly vuggy, sparse pyrite, common in "central" veinlet, trace cassiterite.	Outside the decomposed area only one joint occurs: it is subparallel to the c.A. from 71·4 to 71·7.
				71·10 - 71·14 GREY GREISEN 45° 0·03 as between 65·80 & 65·95, ironstained mica in "central" veinlet.	
				71·69 - 71·85 GREY GREISEN 45° 0·10 as between 65·80 & 65·95, minor arsenopyrite, common in "central" vein, very slightly vuggy.	
				72·28 - 72·53 GREY GREISEN As between 65·80 & 65·95, slightly vuggy, sparse pyrite, trace arsenopyrite, trace cassiterite around "central" vein. The greisen is at 45° to c.A. True thickness is 0·18 m.	The greisen is intact; a parting occurs along/near the contact at 72·53.
				72·53 - 73·25 CREAM AND GREY VERY COARSE GRAINED GRANITE As between 14·20 & 45·30 except that the feldspars are up to 8cm long.	The granite is intact; one joint subparallel to the c.A. occurs.

Assays

From	To	%Sn	Cu	Pb	Zn	As	S %
68·65	69·35	0·27	0.01	0.01	0.17	<0.01	0.90
69·35	70·40	<0·01	<0.01	<0.01	0.03	<0.01	0.06
70·40	71·65	0·01	<0.01	<0.01	0.04	<0.01	0.14

		Ag	Sb	Bi	Cd	U	g/t
68.65	69.35	<12	<10	5	21	53	
69.35	70.40	<12	<10	<5	<15	23	
70.40	71.65	<12	<10	<5	<15	21	

		Sn	Cu	Pb	Zn	As	S %
71·65	72·55	0·20	0.09	<0.01	0.13	0.35	1.10

		Ag	Sb	Bi	Cd	U	g/t
		13	<10	30	17	27	

		Sn	Cu	Pb	Zn	As	S %
72·55	73·40	0·02	<0.01	<0.01	0.07	<0.01	0.26

		Ag	Sb	Bi	Cd	U	g/t
		<12	<10	5	<15	25	

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S1 Page: 7

From	To	Rec		RQD		Description	Structural
73·4	76·4	3·0	100	2·55	85	73·25 – 74·16 CREAM AND GREY COARSE GRAINED GRANITE WITH MINOR GREY GREISEN VEINS. As between 65·42 & 68·28. 73·32 – 73·36 GREY GREISEN 50° 0·03 as between 65·80 & 65·95, trace pyrite. 73·43 – 73·64 GREY GREISEN 45° 0·17 as between 65·80 & 65·95, sparse pyrite in "central" vein and as disseminations, trace sphalerite 74·00 – 74·11 GREY GREISEN 60° 0·10 as between 65·80 & 65·95, trace pyrite as disseminations, trace cassiterite ?	The rock from 73·25 to 73·40 is unconsolidated / decomposed. Elsewhere the rock is reasonably intact. One joint occurs at a low angle to the C.A.
						74·16 – 74·50 GREY GREISEN As between 65·80 & 65·95, minor pyrite, trace arsenopyrite, trace cassiterite ?, slightly vuggy.	The greisen is intact. parting occurs along the contact at 74·16
						74·50 – 74·91 CREAM AND GREY COARSE GRAINED GRANITE As between 14·20 & 45·30, slightly weathered.	The rock is generally intact; some alteration of feldspar to clay. Jointing absent.

Assays

From	To	%Sn	Cu	Pb	Zn	As	S %
73·40	74·50	0·46	0.05	0.02	0.24	0.10	1.60
		Ag	Sb	Bi	Cd	U	g/t.
		17	10	17	46	38	
		Sn	Cu	Pb	Zn	As	S %
74·50	75·80	0·47	0.13	0.02	0.37	0.27	3.20
		Ag	Sb	Bi	Cd	U	g/t.
		28	17	53	94	43	

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S1 Page: 8

From	To	Rec		RQD		Description	Structural
						74·91 - 75·71 GREY GREISEN As between 65·80 & 65·95, sparse pyrite, sparse sphalerite, trace arsenopyrite (partly crystalline in vughs), trace chalcopyrite, trace cassiterite. The greisen is at 55° to C.A. True thickness is 0·65 m.	Rock is generally intact although slightly broken adjacent to one joint Joint frequency is 4/m; joint orientation is at 55° to C.A.
						75·71 - 75·81 CREAM AND GREY COARSE GRAINED GRANITE As between 14·20 and 45·80, slightly decomposed.	Unjointed, slightly clayey rock.
						75·81 - 76·11 GREY GREISEN As between 65·80 and 65·95, trace sphalerite, trace pyrite, trace arsenopyrite (partly crystalline in vughs)	Rock is intact. Joint frequency is 3/m at 55° to C.A.
76·4	79·4	3·00	100	2·10	70	76·11 - 78·40 SLIGHTLY GREISENIZED CREAM AND GREY COARSE GRAINED GRANITE Cream sub to euhedral feldspar, glassy, black and grey quartz. Accessory biotite and black tourmaline, ironstaining on fine fractures	Rock is weathered and partly (20%) friable. Joint frequency is 4/m at 55° - 60° to C.A.
						OVER	

Assays

From	To						
		Sn	Cu	Pb	Zn	As	S %
75·80	76·80	0·12	0.03	<0.01	0.20	0.14	1.10
		Ag	Sb	Bi	Cd	U	g/t.
		16	<10	20	35	60	
		Sn	Cu	Pb	Zn	As	S %.
76·80	77·80	0·12	<0.01	<0.01	0.08	<0.01	0.06
77·80	78·40	0·02	<0.01	<0.01	0.14	<0.01	0.05
		Ag	Sb	Bi	Cd	U	g/t.
76.80	77.80	<12	<10	<5	<15	18	
77.80	78.40	<12	<10	<5	<15	21	

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Project: ROYAL GEORGE Hole: S1 Page: 9

From	To	Rec		RQD		Description	Structural
						78·40 - 78·72 RED-BROWN AND GREY GREISEN As between 65·80 & 65·95, moderately intense ironstaining, trace arsenopyrite.	Rock is intact; joint is 4/m at 60° to C.A.
						78·72 - 79·50 CREAM AND GREY, COARSE GRAINED GRANITE As between 14·20 & 45·30, ironstained in part.	Rock is intact; one joint occurs at low angle to C.A.
79·4	82·4	3·00	100	1·55	52	79·50 - 80·00 GREY GREISEN As between 65·80 & 65·95, trace sphalerite, trace arsenopyrite, trace pyrite, trace cassiterite? The greisen is at 55° to C.A. True thickness is 0·40 m.	Rock is intact (very slightly friable in part). Joint frequency is 2/m at 55° to C.A.
						80·00 - 82·35 WEATHERED, CREAM AND GREY COARSE GRAINED GRANITE As between 14·20 & 45·30, ironstained with alteration of feldspar to clay, slightly greisenized?	Rock is weathered/friable. Joints occur subparallel to C.A. and at 60° to C.A.; joint frequency is 5/m
82·4	85·4	3·00	100	2·15	72	82·35 - 82·65 GREY GREISEN As between 65·80 & 65·95, vuggy, with sparse ironstained, red-brown mica, trace sphalerite and arsenopyrite OVER	Rock is broken/friable.

Assays

From	To	%Sn	Cu	Pb	Zn	As	
							5%
78·40	79·40	0·25	0.07	<0.01	0.09	0.03	0.19
		Ag	Sb	Bi	Cd	U	g/t.
		16	<10	20	<15	32	
		Sn	Cu	Pb	Zn	As	5%
79·40	80·10	0·43	0.06	0.02	0.16	0.14	1.7
		Ag	Sb	Bi	Cd	U	g/t.
		16	15	19	59	105	
80·10	81·10	0·01					
81·10	82·30	0·01					
82·30	82·70	0·18					

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S1 Page: 10

From	To	Rec		RQD		Description	Structural	Assays						
								From	To	%Sn				
						82.65 - 83.23 SLIGHTLY WEATHERED, CREAM - GREY COARSE GRAINED GRANITE As between 14.20 & 45.30 but feldspars slightly decomposed.	Rock is intact; joint frequency is 1/m at low angle to c.a.	82.70	83.20	0.02				
						83.23 - 83.48 GREY AND BROWN GREISEN As between 65.80 & 65.95, but slightly decomposed, ironstained, no visible sulphides.	Rock is intact; joint frequency is 2/m at low angle to c.a.	83.20	84.20	0.12				
						83.48 - 84.83 SLIGHTLY WEATHERED, CREAM - GREY COARSE GRAINED GRANITE As between 82.65 & 83.23	Rock is intact; joint frequency is 2/m at 60° to c.a.							
						84.83 - 85.10 GREY GREISEN As between 65.80 & 65.95 with minor sphalerite and pyrite mostly in 2cm true thickness vuggy central veinlet The greisen is at 55° to c.a. True thickness is	Rock is broken; joint frequency is 15/m at 55° to c.a.	84.20	85.15	0.06				
85.4	88.4	3.00	100	2.95	98	85.10 - 85.70 CREAM AND GREY COARSE GRAINED GRANITE As between 82.65 & 83.23 with slight alteration of feldspar to clay, slightly greisenized in part OVER	Rock is intact; joint frequency is 3/m at 55° to c.a.	85.15	85.90	0.01				

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S1 Page: 11

From	To	Rec		RQD		Description	Structural
88.4	91.4	3.00	100	3.00	100	85.70 - 93.35 PINKISH - CREAM AND GREY COARSE GRAINED GRANITE AND MINOR GREY GREISEN. Sub to euhedral, slightly pinkish, cream feldspar, glassy, dark subhedral quartz, accessory biotite and black tourmaline?; generally fresh, with some red-brown ironstaining in patches, particularly in feldspar. Narrow grey greisen veins occur throughout, including	Rock is fresh and intact; joint frequency is 1/m at 55° to c.a.
91.4	94.4	3.00	100	3.00	100		
						85.70 - 85.85 GREY GREISEN 60° 0.13 As between 65.80 & 65.95, trace arsenopyrite, pyrite and galena, ironstaining on fractures.	
						87.05 - 87.18 GREY GREISEN 60° 0.11 As between 65.80 & 65.95, trace sphalerite and pyrite.	
						87.85 - 87.90 GREY GREISEN 55° 0.04 As between 65.80 & 65.95, trace arsenopyrite and pyrite.	
						88.44 - 88.49 GREY GREISEN 50° 0.04 As between 65.80 & 65.95, trace arsenopyrite, sphalerite & pyrite	

Assays						
From	To	%Sn				
85.90	87.20	0.04				

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S1 Page: 12

From	To	Rec		RQD		Description	Structural	Assays From	Assays To	Assays %Sn
						89.3 MICROGRANITE PATCH Same constituents as coarse grained granite; a 5cm patch.				
						90.78 - 90.86 GREY GREISEN 60° 0.07 As between 65.80 & 65.95, sparse pyrite.				
						93.35 - 93.65 GREY GREISEN As between 65.80 & 65.95 with sparse pyrite and sphalerite. The greisen is at 50° to c.a. True thickness is 0.23m	as for previous interval; contact at 93.65 is a joint.	93.30	94.10	0.07
94.4	97.4	3.00	100	2.95	98	93.65 - 94.90 PINKISH - CREAM AND GREY COARSE GRAINED GRANITE AND MINOR GREY GREISEN. As between 85.70 & 93.35, including 94.05 - 94.08 GREY GREISEN 50° 0.02 As between 65.80&65.95, sparse pyrite.		94.10	94.90	<0.01
						94.90 - 95.78 CREAM AND GREY MICROGRANITE AND MINOR PEGMATITE. As between 87.70 & 93.35 but finer grained; a zone of	Very slightly broken; joint frequency is 4/m at 55° to c.a.	94.90	95.80	0.01

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE   Hole: 51   Page: 13

From	To	Rec		RQD		Description	Structural	Assays From	Assays To	Assays
						pegmatite with sparse pyrite occurs from 95.38 to 95.48. a few greisen veinlets cut the microgranite at 60° to C.A. The contacts with the adjacent granite are gradational.				
97.4	100.4	3.00	100	2.60	87	95.78 - 98.25 PINKISH CREAM AND GREY COARSE GRAINED GRANITE As between 87.70 & 93.35 The contact with the next interval is gradational.	Core is fresh, intact; joint frequency is 2/m at 60° to C.A.			
100.4	103.4	3.00	100	2.40	80	98.25 - 106.20 CREAM AND GREY MEDIUM GRAINED PORPHYRY Sub to euhedral cream feldspar, an to subhedral, dark, glassy quartz, accessory biotite, tourmaline and white mica. The rock is very ironstained between 99.4 and 100.6. a greisenized zone of microgranite occurs between 99.06 and 99.56: the zone is slightly ironstained, slightly vughy and contains sparse pinite.	Core is broken; joint frequency is 5/m at 55°-60° to C.A., 1/m at 30°-40° to C.A. Parts of the interval (5%) are reduced to clayey rubble.	98.20	99.20	0.06
103.4	106.4	3.00	100	0.45	15			99.20	100.20	0.42
								100.20	101.20	<0.01

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S1 Page: 14

From	To	Rec		RQD		Description	Structural	Assays From	Assays To
106·4	109·4	3·00	100	1·40	46	106·20 – 123·56 CREAM AND GREY COARSE GRAINED GRANITE. As between 14·20 & 45·30, generally slightly ironstained, greisenized at irregular and infrequent intervals, including	Rock is generally intact except adjacent to joints where it tends to be broken / clayey. Joint frequency is 2-5 / m at 50° 60° to c.a. One joint subparallel to c.a. is present		
109·4	112·4	3·00	100	2·65	88				
112·4	115·4	3·00	100	2·60	87				
115·4	118·4	3·00	100	2·85	95				
118·4	121·4	3·00	100	2·95	98				
121·4	124·4	3·00	100	2·15	72				
						107·25 – 107·70 MICROGRANITE a finer grained version of the enclosing rock.			
						111·75 – 111·95 GREY GREISEN 50° 0·15 As between 65·80 & 65·95, ironstained			
						112·85 – 113·55 GREY GREISEN AND CREAM AND GREY COARSE GRAINED GRANITE. 50° 0·54 As before, traces of pyrite in greisen			
						123·00 – 123·56 GREY GREISEN 50° 0·40 As between 65·80 & 65·95, sparse weathered sulphides			
						118·25 – 118·32 GREY GREISEN 65° 0·06 As between 65·80 & 65·95, slightly ironstained.			

OVER

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S1 Page: 15

From	To	Rec		RQD		Description	Structural	Assays From	Assays To
						118·90 – 119·51 GREY GREISEN AND 60° 0.50 CREAM AND GREY COARSE GRAINED GRANITE As before, sparse pyrite, trace arsenopyrite in greisen.		
124·4	127·4	3.00	100	2·40	80	123·56 – 126·65 PINKISH CREAM AND GREY COARSE GRAINED GRANITE As between 87·70 & 93·35, slightly ironstained.	Fresh rock; joint frequency is 2/m at 50°–60° to c.a.		
						126·65 – 127·40 PARTLY WEATHERED CREAM AND GREY MICROGRANITE As between 107·25 & 107·70.	Extremely broken rock; joint frequency is 5/m at 50°–60° to c.a.; also joint subparallel to c.a.		
						HOLE COMPLETED AT 127·40m			

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: ROYAL GEORGE

HOLE: 32

Commenced	21 AUG 89
Completed	4 SEP 89
Logged by	M.V. McKEOWN
Drilled by	WAYNE HOW

Purpose

To test the main Royal George lode beneath the old workings and towards the northern end

Comments on Completion

Wide, dark gray greisen zone in coarse grained granite. Significant Zn as sphalerite and assoc. Cd. Also sig. arsenopyrite.

	Northing	Easting	Level	Dip	Bearing	Length
AMG	5 368 299	573 460	296.8	-52°	056°	127.4

127.4

Surveys		
Depth	Dip	Bearing
30m	-51½°	059°
60m	-51½°	060°
90m	-52°	060°
120m	-52°	060½°

Size	
Depth	Size
127.4	HQ

Recovery	
Depth	%

Summary

Depth		Level		Recovery	Description	Assays						
From	To	From	To	%		Length(m)	Sn	Cu	Pb	Zn	As	S %
78.4	89.9			100	Gray greisen and very minor cream and gray	11.5	0.46	0.07	0.03	0.42	0.24	2.6
					coarse grained granite.	E.T.T. 10m.						
							Ag	Sb	Bi	Cd	U	
							19	15	40	71	26.	

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: 52 Page: 1

From	To	Rec		RQD		Description	Structural
0.0	2.9	1.20	41	0.75	26	0.0 – 12.45 GREY AND WHITE PORPHYRY Sub to euhedral, white feldspar, an to subhedral, dark, glassy quartz, sparse pinite (after feldspar), accessory biotite and lesser black tourmaline; medium to coarse grained; ironstained adjacent to and on joints and adjacent to quartz veinlets; chlorite? occurs on joints e.g. at 3.1 m. Rare, slightly vuggy, partly crystalline, milky quartz veinlets with minor iron oxides are present. Occasional networks of microfractures occur. The networks have a general orientation e.g. at 4.60 the network is at 40° to c.A. The networks are ironstained.	The rock is generally consolidated although broken except from the start for 20 cm and also between 7.00 and 7.20. See RQDs.
2.9	4.3	1.40	100	0.85	61		
4.3	7.2	2.85	98	1.30	45		
7.2	10.3	3.10	100	2.90	94		
10.3	13.3	3.00	100	2.65	88		
13.3	16.3	3.00	100	3.00	100		
16.3	19.3	3.00	100	2.60	87		
19.3	22.3	3.00	100	2.90	97		
22.3	25.3	3.00	100	2.95	98		
25.3	28.3	3.00	100	3.00	100		
28.3	31.3	3.00	100	2.95	98		
						12.45 – 31.70 FRESH WHITE AND GREY COARSE GRAINED GRANITE Sub to euhedral, white feldspar, an to subhedral, dark, glassy quartz, accessory biotite and black tourmaline; ironstained throughout; occasional pinitized feldspars occur; rare ironstained	The rock is generally fresh and becomes less broken towards 31.70. Joint frequency is 2-4/m at 60° - 80° to c.A.

Assays						
From	To					

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S2 Page: 2

From	To	Rec		RQD		Description	Structural
						microfracture networks are present. 29.50 - 29.55 GREY MICROGRANITE 50° 0.04	
						31.70 - 33.40 WEATHERED WHITE AND GREY COARSE GRAINED GRANITE As between 12.45 and 31.70 but decomposed i.e. clay alteration of feldspars; ironstained; occasional ironstained microfracture networks.	Extremely broken, clayey rock. Joint frequency is 8/m at 60°-80° to c.A.
31.3	33.4	2.10	100	0.75	36	33.40 - 45.75	
33.4	34.3	0.90	100	0.90	100	FRESH WHITE AND GREY COARSE	
34.3	37.3	3.00	100	3.00	100	GRAINED GRANITE	
37.3	40.3	3.00	100	2.92	97	As between 12.45 & 31.70;	Rock is fresh and intact.
40.3	43.3	3.00	100	2.95	98	ironstained microfracture	
43.3	46.3	3.00	100	2.02	67	networks are present:	Joint frequency is 2-4/m at 60°-80° to c.A.
						33.40 - 35.20 WHITE AND GREY COARSE ~0° ? GRAINED GRANITE WITH IRONSTAINED MICROFRACTURE NETWORKS.	
						44.30 - 45.75 WHITE AND GREY COARSE ~0° ? GRAINED GRANITE WITH IRONSTAINED MICROFRACTURE NETWORKS.	
						OVER	

Assays						
From	To					

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S2 Page: 3

From	To	Rec		RQD		Description	Structural	Assays From	Assays To
46.3	48.9	2.60	100	2.60	100	45.75 - 49.75 PINK AND GREY COARSE GRAINED GRANITE As between 12.45 & 31.70 but feldspar is cream-pink in colour; occasional ironstained / pinitized feldspars occur.	Rock is fresh and intact Joint frequency is 1/m at 60°-70° to c.A.		
48.9	52.0	3.10	100	2.00	65	49.75 - 50.75 WHITE AND GREY MICROGRANITE White feldspar, dark, glassy quartz, accessory biotite; slightly ironstained on fractures and joints. The contact at 49.75 is sharp at a low angle to the c.A. The contact at 50.75 is gradational.	Very broken rock. Joint frequency is 10/m at 25°-30° to c.A., 6/m at 60° to c.A.		
52.0	55.3	3.30	100	1.56	47	50.75 - 54.50 PINK AND GREY COARSE GRAINED GRANITE As between 45.75 & 49.75; ironstained on fractures and joints; occasional microfracture networks are present.	Broken rock due to joint subparallel to c.A. from 51.4 to 52.9. Clay / rubble zone from 53.70 to 53.85. Joint frequency is 3/m at 60°-60° to c.A.		

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S2 Page: 4

From	To	Rec		RQD		Description	Structural
55.3	58.3	3.0	100	2.95	98	54.50 - 58.21 CREAM AND GREY COARSE GRAINED GRANITE As between 12.45 & 31.70 56.20 - 56.45 CREAM AND GREY MICROGRANITE 60°	The rock is generally intact. Rare patches of decomposed - clayey feldspar are present. Jointing at 40° - 75° to c.A. occurs at a frequency of 5/m.
						58.21 - 58.47 GREY GREISEN (WITH MINOR CREAM PINK AND GREY COARSE GRAINED GRANITE) Grey and white quartz, sericite (after feldspar), accessory biotite (and black tourmaline?); at greisen-granite contacts some "feldspar" crystals are feldspar at one end grading into sericite at the other; within the greisen, sericite patches pseudomorph feldspar crystals; sparse pyrite, trace arsenopyrite, trace pink cassiterite; slightly vuggy in quartz veinlets. The greisen is at 60° to the c.A. Contacts with the enclosing granite are gradational	Rock is intact.

Assays						
From	To					

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S2 Page: 5

From	To	Rec		RQD		Description	Structural
58.3	61.3	3.00	100	2.50	83	58.47-70.44	
61.3	64.3	3.00	100	2.50	83	CREAM AND GREY COARSE GRAINED	
64.3	67.3	3.00	100	2.55	85	GRANITE	
67.3	70.3	3.00	100	2.75	92	As between 12.45 & 31.70	Rock is fresh and intact except between 66.3 and 66.7 where it is very broken and 68.98 to 69.10 which is a fault.
						60.70 - 61.10 ZONE OF SERICITE 70° VEINLETS AT 70° TO C.A.	
						61.97 - 62.05 GREY GREISEN AND 50° 0.06 GREISENIZED GRANITE As between 58.21 & 58.47; sparse sphalerite	Joint frequency is 4-5/m at 50°-70° to C.A. and <1/m at 30° to C.A.
						62.53 - 62.70 GREY GREISEN 50° 0.13 As between 58.21 & 58.47; partly ironstained.	Fault between 68.98 & 69.10 (see description)
						65.20 - 65.50 GREY GREISEN 50° 0.22 As between 58.21 & 58.47; sparse pyrite, trace sphalerite.	
						68.30 - 68.50 INTERMIXED MICROGRANITE AND COARSE GRAINED GRANITE.	
						68.98 - 69.10 FAULT BRECCIA Fragments (≤5mm across) of cream feldspar and quartz in a black matrix (schorl?)	

Assays						
From	To					

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S2 Page: 6

From	To	Rec		RQD		Description	Structural
						70·44 - 70·90 GREY GREISEN As between 58·21 & 58·47; sparse pyrite and trace chalcopyrite, trace arsenopyrite The greisen is at 60° to c.A. True thickness is 0.40m	Rock is intact.
70·3	73·3	3.00	100	2.44	81	70·90 - 75·65	
73·3	76·3	3.00	100	3.00	100	INTERMIXED CREAM AND GREY COARSE GRAINED GRANITE, MICROGRANITE AND PEGMATITE. The rock is constituted of the same minerals as between 12·45 & 31·70, however, grain size varies from fine to very coarse. Fine sericite? - quartz veinlets cut the core at 60°-70° to c.A. occasionally throughout. The pegmatite between 72·20 & 72·65 is slightly greisenized.	Rock is slightly broken. Joint frequency is 4-7/m at 60°-70° to c.A.: these joints are more common in finer rock. One low angle joint occurs.
76·3	79·3	3.00	100	2.20	73	75·66 - 78·40 CREAM AND GREY COARSE GRAINED GRANITE AND GREY GREISEN The granite is as between 12.45 & 31·70 with minor alteration of feldspar to clay and pinite. 75·65-75·80 GREY GREISEN 50° 0.10 As between 58.21 & 58·47; sparse pyrite & sphalerite, trace arsenopyrite & chalcopyrite	Rock is slightly weathered to fresh; first 30cm are very broken and clayey. Joint frequency is 3-4/m at 60°-70° to c.A.

Assays							
From	To	Sn %					
70·40	70·94	0·21					
72·10	72·50	0·01					
75·65	76·95	0·40					
76·95	78·40	0·05					

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S2 Page: 7

From	To	Rec		RQD		Description	Structural
						76.45 - 76.95 GREY GREISEN 50° 0.40 As between 58.21 & 58.47; sparse cassiterite in veinlet and as disseminations, sparse pyrite and pyrrhotite, trace sphalerite.	
						77.65 - 77.72 GREY GREISEN 50° 0.05 As between 58.21 & 58.47; sparse pyrite, trace arsenopyrite.	
						78.10 - 78.40 UNCONSOLIDATED, CLAYEY, DECOMPOSED GRANITE	
79.3	82.3	3.00	100	2.10	70	78.40 - 88.90 GREY GREISEN AND VERY MINOR CREAM AND GREY COARSE GRAINED GRANITE As between 58.21 & 58.47; minor pyrite interstitial to quartz, in veinlets and as disseminations; sparse to minor sphalerite (marmatite) as blebs up to 5mm across), locally common e.g. at 82.7 and 83.3m; trace chalcopyrite disseminations, locally common e.g. at 82.8m; trace cassiterite grains, interstitial to quartz, crystalline, locally common at 80.9 and 81.7m; trace arsenopyrite occasionally abundant in veinlets e.g. at 84.78m; trace galena. The greisen is at 65° to c.A.	Rock is slightly broken to broken, friable adjacent to joints, clayey on and adjacent to joints. Joint frequency is 5/m at 60°-70° to c.A., 1-2/m at 40°-50° to c.A.
82.3	85.3	3.00	100	2.80	93		
85.3	88.3	3.00	100	2.65	88		

Assays

From	To	Sn %	Cu	Pb	Zn	As	S %
78.40	79.40	0.56	0.07	0.02	0.16	0.32	2.8
79.40	80.40	0.62	0.10	0.02	0.20	0.21	2.6
80.40	81.40	0.35	0.05	0.02	0.34	0.07	2.5
81.40	82.40	0.93	0.07	0.03	0.25	0.12	3.2
82.40	83.40	0.40	0.18	0.04	1.37	0.39	3.4
83.40	84.40	0.39	0.06	0.03	0.66	0.29	2.8
84.40	85.40	0.47	0.07	0.04	0.70	0.36	2.9
85.40	86.45	0.25	0.02	0.02	0.45	0.08	2.0
86.45	87.35	0.02	<0.01	0.01	0.11	<0.01	0.57
87.35	88.35	0.56	0.09	0.02	0.37	0.75	3.3
88.35	88.90	0.86	0.06	0.03	0.22	0.18	2.80.

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S2 Page: 8

From	To	Rec		RQD		Description	Structural
						80·18 - 80·52 CREAM AND GREY COARSE GRAINED GRANITE As between 12·45 & 31·70	
						84·10 - 84·40 CREAM AND GREY COARSE GRAINED GRANITE As between 12·45 & 31·70	
						86·45 - 87·35 CREAM AND GREY COARSE GRAINED GRANITE As between 12·45 & 31·70	
88.3	91.3	3.00	100	2.25	75	88·90 - 100·63	
91·3	94.3	1.60	53	0.40	13	DECOMPOSED / DECOMPOSING BROWN - YELLOW	
94·3	96·1	1.80	100	NIL	0	COARSE GRAINED GRANITE	
96.1	96·5	0.20	50	NIL	0	As between 12·45 & 31·70; feldspar, however, is extensively	Very broken to extremely broken, clayey rock.
96.5	97·3	0.80	100	0.40	50	altered to clay and pyrite, intense mineralising	
97·3	98·3	1.00	100	NIL	0	occurs in places, clay	Core loss occurs as described on next page.
98·3.	100·3	1.60	80	1.10	55	occurs also on joints.	
						Mineralised, brown - red greisen veins (with no visible sulphides) occurs between the following depths:	Joint frequency is 3-4/m at 60° to c.A.
						91·30 - 91·36 50°	Joints subparallel to c.A. are present.
						91·63 - 91·73 50°	
						91·86 - 91·95 ?	
						92·63 - 92·86 45°	
						94·45 - 94·63 ?	
						94·80 - 94·87 55°	
						97·15 - 97·28 (trace pyrite, sparse arsenopyrite) 55°	

Assays

From	To	Sn%	Cu	Pb	Zn	As	S%
88·90	89·90	0·24	0.03	0.01	0.11	<0.01	2.7

		Ag	Sb	Bi	Cd	V	g/t
78.40	79.40	18	14	34	45	21	
79.40	80.40	15	19	52	52	21	
80.40	81.40	16	11	18	80	26	
81.40	82.40	<12	21	18	40	21	
82.40	83.40	66	11	145	210	21	
83.40	84.40	20	13	41	105	25	
84.40	85.40	20	19	34	110	29	
85.40	86.45	15	18	15	78	19	
86.45	87.35	<12	<10	<5	15	44	
87.35	88.35	25	25	81	49	24	
88.35	88.90	13	24	18	47	32	
88.90	89.90	12	<10	10	<15	39	

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S2 Page: 9

From	To	Rec		RQD		Description	Structural
						CORE LOSSES OCCURRED BETWEEN THE FOLLOWING DEPTHS: 92.86 - 94.30 100% CORE LOSS 95.9 - 96.7 40% CORE LOSS 99.9 - 100.3 100% CORE LOSS	
100.3	103.3	3.00	100	2.34	78	100.63 - 103.20 INTERMIXED IRONSTAINED CREAM AND GREY COARSE GRAINED GRANITE As between 12.45 & 31.70 but partly intensely ironstained; occasional pebbles (up to 10cm x 5cm) of quartz and schorl; slight to moderate alteration of feldspar to clay.	The rock is intact although it has a slightly weathered appearance Joint frequency is 2/m at 50°-70° to c.A.
103.3	106.3	3.00	100	2.95	98	103.20 - 104.20 IRONSTAINED CREAM AND GREY MICROGRANITE AND MINOR COARSE GRAINED GRANITE The composition of the rock is as between 12.45 & 31.70; the coarse grained granite is decomposed with feldspar altering to clay; traces of schorl occur in veinlets	The rock is intact.
106.3	109.3	3.00	100	3.00	100	104.20 - 115.80	
109.3	112.3	3.00	100	1.86	62	CREAM AND GREY COARSE GRAINED	
112.3	114.4	2.10	100	1.90	63	GRANITE As between 12.45 & 31.70, but ironstained throughout with	The rock is intact. Joint frequency is <1/m at

Assays						
From	To					

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S2 Page: 10

From	To	Rec		RQD		Description	Structural	Assays From	Assays To				
						partial alteration of clay to feldspar; sparse schorl patches 106·68 VUGGY BLACK QUARTZ 30° 0·03 VEINLET 107·50 – 108·20 INTENSELY IRONSTAINED ZONE 112·30 – 112·80 COARSE GRAINED GRANITE WITH MINOR PATCHES OF MICROGRANITE	70° – 80° to c.A. One joint subparallel to the c.A. is present.						
114.4	115.3	0.90	100	0.60	67	<u>115·80 – 123·20</u> PINKISH-CREAM AND GREY COARSE GRAINED GRANITE As between 12·45 & 31·70; generally fresh, rare greisenized patches 117·70 – 118·00 PINK-CREAM PORPHYRY 121·30 – 121·40 GREY GREISEN	Rock is intact. Joint frequency is 1–2 /m at 60° – 80° to c.A.						
115.3	118.3	3.00	100	3.00	100								
118.3	121.3	3.00	100	2.95	98								
121.3	124.3	3.00	100	2.67	89								
124.3	127.3	3.00	100	1.80	60								
						<u>123·20 – 127·40</u> CREAM AND GREY PORPHYRY AND MICROGRANITE The porphyry is as between 0·00 & 12·45; the microgranite is a finer grained phase of the porphyry?	Rock is broken to very broken by joints subparallel to C.A.						

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S2 Page: 11

From	To	Rec (m)		Rec (%)		Description	Structural	Assays						
								From	To					
						124.28 – 124.60 GREY GREISEN 50° 0.25 As between SB-21 & SB-47; trace pyrite disseminations 124.90 – 125.00 GREY GREISEN 50° 0.08 As between SB-21 & SB-47								
						HOLE COMPLETED AT 127.4 m								

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: ROYAL GEORGE

HOLE: 53

Commenced	7 AUG 89
Completed	15 AUG 89
Logged by	M.V. McKEOWN
Drilled by	WAYNE HOW

Purpose
To test the main Royal George lode beneath the former workings and towards the southern end.

Comments on Completion
Strong greisen zone developed within coarse grained granite. Assay data suggests Zn-Cd and As-Bi relationship.

Northing	Easting	Level	Dip	Bearing	Length
5 368 227	573 500	297.9	-53°	060°	120.0

Surveys		
Depth	Dip	Bearing
30 m	-53°	059½°
60 m	-54°	061°
90 m	-53½°	060°
120 m	-54°	060½°

Size	
Depth	Size
120.0	HQ

Recovery	
Depth	%

Summary

Depth		Level		Recovery	Description	Assays						
From	To	From	To	%		Length(m)	Sn	Cu	Pb	Zn	As	S %
77.5	85.7			100	Green-gray coarse grained greisen	8.2 m	0.59	0.11	0.03	0.37	0.5 [one high value]	3.7
						[E.T.T. 7.1 m]						
							Ag	Sb	Bi	Cd	U g/t	
							27	19	69. [one high value]	46	65 [One high value]	

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S3 Page: 1

From	To	Rec		RQD	
0.0	1.9	1.25	66	0.60	32
1.9	3.1	0.78	65	NIL	0
3.1	4.0	0.90	100	0.34	38
4.0	5.2	1.20	100	0.50	42
5.2	6.7	1.40	93	1.30	87
6.7	8.4	1. 0	100	1.30	76
8.4	9.0	0.50	83	NIL	0
9.0	10.6	1.44	90	1.14	71
10.6	12.2	1.60	100	1.28	80
12.2	12.6	0.40	100	0.26	65
12.6	13.9	1.20	92	0.64	49
13.9	15.2	1.30	100	0.90	69
15.2	17.0	1.80	100	1.19	66
17.0	18.0	1.00	100	0.46	46
18.0	18.8	0.80	100	0.43	54
18.8	19.0	0.20	100	0.10	50
19.0	22.1	3.10	100	2.56	83
22.1	24.3	2.20	100	1.62	74
24.3	26.0	1.70	100	1.25	74
26.0	28.1	2.10	100	1.80	86
28.1	30.0	1.90	100	0.50	26
30.0	30.9	0.90	100	0.24	27
30.9	31.7	0.80	100	NIL	0
31.7	32.8	1.10	100	0.15	14
32.8	33.7	0.80	89	0.64	80
33.7	34.6	0.90	100	0.33	37
34.6	37.6	3.00	100	2.10	70
37.6	38.3	0.70	100	0.48	69
38.3	40.6	2.30	100	2.27	99
40.6	41.8	1.20	100	0.31	26
41.8	43.1	1.30	100	0.64	50
43.1	43.9	0.80	100	0.40	50
43.9	45.3	1.40	100	0.90	64
45.3	45.8	0.50	100	0.35	70
45.8	47.2	1.40	100	0.56	40

Description

0.00–74.60

CREAM AND GREY PORPHYRY

An to subhedral cream to white feldspar, an to subhedral dark, glassy quartz, accessory biotite and schorl in a quartz-feldspar groundmass; ironstained on and adjacent to fractures; rare, narrow, ironstained microfracture networks occur throughout e.g. between 9.1 & 9.4; sparse alteration of feldspar to pinite; occasional patches (≤5cm across) of coarse quartz-schorl; intense yellow and green-yellow clay occurs on some joint surfaces; rare coarse grained and fine grained patches occur throughout

19.80 VEINLET OF SERICITE AND PURPLE FLUORITE
10° 0.05

21.17 – 21.46 IRONSTAINED ZONE
35° 0.13 Slightly coarse porphyry with minor pinite and clay

32.75 – 32.80 CREAM-GREY CLAY

36.84 QUARTZ-SCHORL VEINLET
50° 0.03

Structural

Rock is generally broken to very broken (see RQDs) but the rock is generally fresh.

Joint frequency is 4-5/m at 50°-70° to C.A., 1-2/m at low angles to C.A.

Assays

From	To				

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE   Hole: 53   Page: 2

From	To	Rec		RQD	
47·2	48·2	1·00	100	0·42	42
48·2	50·3	2·10	100	1·32	63
50·3	51·3	1·00	100	0·62	62
51·3	51·7	0·40	100	0·12	30
51·7	52·1	0·40	100	0·10	25
52·1	53·6	1·50	100	0·66	44
53·6	56·0	2·40	100	1·10	46
56·0	58·1	2·10	100	1·24	59
58·1	61·1	3·00	100	2·35	78
61·1	63·5	2·40	100	0·83	35
63·5	64·6	1·10	100	0·20	18
64·6	67·1	2·50	100	1·10	44
67·1	68·9	1·80	100	1·54	86
68·9	71·7	2·80	100	2·60	93
71·7	72·3	0·60	100	0·50	83
72·3	74·2	1·90	100	1·24	65

Description

41·60 — PURPLE FLUORITE VEINLET
10° 0·01

45·15 - 45·24 — GREY GREISEN
50° 0·07 — Slightly vuggy sericite - quartz vein

50·70 — GREISENIZED PORPHYRY
30° 0·02

52·60 - 52·70 — GREISENIZED PORPHYRY
30°

54·60 — GREY GREISEN
30° 0·03 — Quartz and sericite with accessory biotite

61·00 - 61·12 — IRONSTAINED MICRO-
IRREGULAR — FRACTURE NETWORK

63·35 - 63·43 — GREY GREISEN
40° 0·07 — Grey and white quartz, sericite (after feldspar), accessory biotite and schorl; slightly vuggy, trace cassiterite

63·50 - 63·80 — CLAY - QUARTZ ROCK
Decomposed porphyry

OVER

Structural

Assays

From	To					

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S3 Page: 3

From	To	Rec (m)	Rec (%)	Description	Structural
				64.70 - 64.84 GREY GREISEN 35° 0.06 As between 63.35 & 63.43; trace purple fluorite 65.60 - 65.76 GREY GREISEN 55° 0.13 As between 63.35 & 63.43; slightly ironstained 66.75 - 67.10 GREY GREISEN IRREGULAR As between 63.35 & 63.43; decomposed to clay over last 5 cm; minor schorl? 70.25 - 70.40 GREY GREISEN 50° 0.12 As between 63.35 & 63.43; slightly ironstained, minor pyrite, sparse arsenopyrite, trace sphalerite and cassiterite.	
				70.40 - 74.60 CREAM AND GREY PORPHYRY AND MINOR GREISEN Porphyry as between 0.00 & 74.60; most greisen occurs as veinlets ≤ 2 cm thick. 71.48 - 71.53 GREY GREISEN 60° 0.03 As between 63.35 & 63.43; sparse/minor sphalerite, mainly in core veinlet, sparse pyrite, trace arsenopyrite and cassiterite	Rock is slightly broken to broken. Joint frequency is 4-5/m at 55°-65° to C.A.

Assays						
From	To					
72.55	73.40	0.28				
73.40	74.52	0.02				

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S3 Page: 4

From	To	Rec		RQD		Description	Structural
						72.57 - 72.77 BANDED CREAM-GREY 55° 0.16 PORPHYRY AND GREY GREISEN Slightly ironstained, trace pyrite 73.06 - 73.40 GREY GREISEN 50° 0.26 As between 63.35 & 63.43; minor pyrite as disseminations and in veinlet, sparse arsenopyrite, common in core veinlet, strongly ironstained in part 73.90 - 74.00 VERY CLAYEY, DECOMPOSED PORPHYRY	
74.2	76.6	2.40	100	1.46	61	74.60 - 77.05 CREAM-WHITE AND GREY VERY COARSE GRAINED GRANITE Cream to white sub to anhedral feldspar, dark, glassy an to anhedral quartz, accessory biotite and colour?; sparse alteration of feldspar to pinite; minor ironstaining along fractures 74.85 - 75.25 GREY GREISEN 30°? As between 63.35 & 63.43; remnant coarse grained texture; trace arsenopyrite and pyrite	Rock is reasonably fresh and intact. Joint frequency is 3-5/m at 50°-60° to C.A.

Assays						
From	To	Sn %				
74.52	75.25	0.16				
75.25	76.50	0.08				

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S3 Page: 5

From	To	Rec		RQD		Description	Structural
						76.55 - 76.90 BANDED COARSE GRAINED GRANITE AND GREISEN Very slightly vuggy in some veinlets, sparse arsenopyrite, trace pyrite.	
76.6	79.6	3.00	100	2.40	80	77.05 - 86.48 GREEN-GREY COARSE GRAINED GREISEN Subhedral, white and dark, glassy quartz, sericite patches (after feldspar), accessory/ trace biotite and schorl; sparse pyrite, sparse arsenopyrite (locally common at 77.6), sparse sphalerite (locally common at 77.3), trace chalcopyrite, trace galena, trace cassiterite. Chalcopyrite tends to occur in association with arsenopyrite. Galena occurs in association with sphalerite. Cassiterite grains (≤ 3 mm) occur adjacent to a milky quartz veinlet at 78.03, a patch (3 cm x 0.5 cm) of cassiterite grains interstitial to quartz occurs at 78.35.	Rock is broken in part (see RQDs) although fresh. Joint frequency is 1-5/m at 50° - 60° to C.A. Low angle joints occur and where present give rise to the very broken zones (see RQDs)
79.6	80.9	1.30	100	0.65	50		
80.9	82.0	1.10	100	0.70	64		
82.0	85.1	3.10	100	3.05	98		
85.1	87.0	1.90	100	1.80	95		
						83.45 - 84.20 CREAM AND GREY COARSE GRAINED GRANITE, PARTLY GREISENIZED	

Assays

From	To	Sn%	Cu	Pb	Zn	As	S%
76.50	77.50	0.19					
77.50	78.50	0.74	0.35	0.05	0.65	2.6	4.1
78.50	79.50	0.66	0.12	0.03	0.62	0.41	3.3
79.50	80.50	0.48	0.11	0.02	0.27	0.40	4.4
80.50	81.50	0.37	0.05	0.02	0.72	0.07	4.4
81.50	82.50	0.68	0.09	0.02	0.23	0.04	4.1
82.50	83.50	0.46	0.07	0.02	0.27	0.19	4.3
83.50	84.50	0.19	0.02	0.01	0.12	0.07	1.50.
84.50	85.70	1.02	0.09	0.04	0.10	0.27	3.40.
85.70	86.65	0.11					

From	To	Ag	Sb	Bi	Cd	U	g/t
77.50	78.50	68	52	290	60	26	
78.50	79.50	30	17	53	93	16	
79.50	80.50	29	14	68	33	23	
80.50	81.50	19	14	15	105	44	
81.50	82.50	23	15	53	<15	350	
82.50	83.50	20	14	37	37	30	
83.50	84.50	<12	<10	9	17	21	
84.50	85.70	25	18	37	19	19	

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S3 Page: 6

From	To	Rec		RQD		Description	Structural
						Replacement texture at 82.45 indicates sericite replaces feldspar.	
						85.66 - 85.90 CREAM AND GREY COARSE GRAINED GRANITE, PARTLY GREISENIZED	
						86.03 - 86.27 CREAM AND GREY COARSE GRAINED GRANITE, PARTLY GREISENIZED	
87.0	89.7	2.70	100	1.33	49	86.48 - 98.00	
89.7	91.6	1.90	100	1.90	100	CREAM AND GREY COARSE GRAINED AND	
91.6	94.6	3.00	100	3.00	100	VERY COARSE GRAINED GRANITE AND	
94.6	97.6	3.00	100	2.43	81	MINOR GREY GREISEN	
						Granite as between 74.60 & 77.05; greisen as between 77.05 & 86.48. In the granite, slight to moderate alteration of feldspar to pinite occurs.	Rock is fresh and intact. Joint frequency is 1-4/m at 50°-60° to c.a.
						87.24 - 87.42 GREY GREISEN	
						50° 0.14 As above; slightly vuggy, sparse pyrite, trace arsenopyrite.	
						86.48 - 88.00 DECOMPOSED, CLAYEY, COARSE GRAINED GRANITE	
						89.60 - 90.00 GREY GREISEN	
						45° 0.28 As above; sparse chalcopyrite, pyrite and arsenopyrite	

Assays						
From	To	Sn %				
86.65	87.50	0.25				

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S3 Page: 7

From	To	Rec	RQD	Description	Structural
				90.83 - 90.93 GREY GREISEN 50° 0.07 As above; sparse sphalerite and pyrite	
				93.11 - 93.41 GREY GREISEN 40° 0.20 As above; sparse arsenopyrite and chlorite? in core veinlet, sparse pyrite, trace bismuthinite.	
				93.94 - 93.98 GREY GREISEN 60° 0.09 As above; slightly vuggy, trace pyrite	
				94.04 - 94.11 GREY GREISEN 45° 0.05 As above; trace pyrite	
				95.26 - 95.38 GREY GREISEN 55° 0.09 As above; trace pyrite and sphalerite	
				95.77 - 96.00 DECOMPOSED GREISEN 60° 0.20 As above; common clay and pinite	
				96.04 - 96.38 GREY GREISEN 60° 0.30 As above; trace pyrite	
				97.04 - 97.16 GREY GREISEN 60° 0.09 As above; trace pyrite	

Assays						
From	To					

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S3 Page: 8

From	To	Rec		RQD		Description	Structural	Assays From	Assays To
						97.42 - 97.52 GREY GREISEN 65° 0.08 As above; sparse pyrite 97.64 - 97.68 GREY GREISEN 50° 0.03 As above; trace pyrite			
97.6	100.6	3.00	100	2.62	87	98.00 - 120.00 CREAM AND GREY COARSE GRAINED AND VERY COARSE GRAINED GRANITE AND RARE GREY GREISEN As between 86.48 & 98.00 but with fewer greisen veins. 110.20 - 110.26 GREY GREISEN 50° 0.05 As between 77.05 & 86.48; vuggy 113.80 - 114.16 ZONE OF INTERMIXED COARSE GRAINED GRANITE AND GREISEN	Rock is fresh and intact. Joint frequency is 1 - 5/m at 50° - 70° to C.A.		
100.6	103.6	3.00	100	3.00	100				
103.6	106.6	3.00	100	2.92	97				
106.6	109.6	3.00	100	3.00	100				
109.6	112.6	3.00	100	2.70	90				
112.6	115.6	3.00	100	2.60	87				
115.6	118.6	3.00	100	3.00	100				
118.6	120.0	1.40	100	1.25	89				
						HOLE COMPLETED AT 120.0m			

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

PROJECT: ROYAL GEORGE

HOLE: S4

Commenced	19 SEP 89
Completed	6 OCT 89
Logged by	M.Y. McKEOWN
Drilled by	WAYNE HOW

Purpose
To test for extensions of the Main Royal George Lode South of the open-cut.

Comments on Completion
Narrow greisen veins over a wide interval, but the values very low. Strong greisen unit to the North has either thinned to the South or has widened and disseminated into a number of more narrow veins.

Northing	Easting	Level	Dip	Bearing	Length
5 368 159	573 541	294.1	-56°	058°	148.5

Surveys		
Depth	Dip	Bearing
30m	-55½°	057½°
60m	-56°	058°
90m	-56°	058½°
120m	-55½°	059½°

Size	
Depth	Size
148.5	HQ

Recovery	
Depth	%

Summary

Depth From	Depth To	Level From	Level To	Recovery %	Description	Assays Length(m)	Sn	Cu	Pb	Zn	As.	S. %
85.3	94.0			100.		8.8m	0.12	<0.01	<0.01	0.1	<0.01	0.
						E.T.T. 7.1						
							Ag	Sb	Bi	Cd	U	g/t.
							<12	<10	<5	Approx. 16	28	

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S4 Page: 1

From	To	Rec		RQD		Description	Structural
0.0	3.0	0.35	12	NIL	0	0.00 - 36.55	
3.0	4.5	0.90	60	0.20	13	DECOMPOSED WHITE AND GREY	
4.5	5.5	1.00	100	NIL	0	COARSE GRAINED GRANITE	
5.5	6.7	0.75	94	0.27	34	Sub to anhedral white	Rock is extremely broken,
6.7	7.5	0.80	100	0.20	25	feldspar, an to subhedral	decomposed in part, clayey
7.5	9.2	0.40	57	NIL	0	dark, glassy quartz,	(see RQDs)
9.2	10.5	1.30	100	0.20	15	accessory biotite, sparse	
10.5	12.4	1.90	100	0.50	26	schorl patches, extensive	Meaningful joint frequencies
12.4	15.0	2.60	100	0.98	38	alteration of feldspar to	are not obtainable.
15.0	16.5	1.50	100	0.37	25	clay, occasional alteration	
16.5	17.7	1.20	100	NIL	0	of feldspar to pinite, iron-	
17.7	19.0	1.30	100	NIL	0	stained throughout particularly	
19.0	20.4	1.40	100	NIL	0	adjacent to fractures and	
20.4	22.0	1.60	100	0.33	21	joints.	
22.0	23.4	1.40	100	NIL	0		
23.4	24.9	1.50	100	0.30	20	36.55 - 53.65	
24.9	25.5	0.60	100	NIL	0	WHITE AND GREY COARSE GRAINED	
25.5	27.7	2.10	95	0.30	14	GRANITE	
27.7	28.5	0.50	63	NIL	0	Sub to anhedral white	Generally, reasonably
28.5	29.1	0.20	33	NIL	0	feldspar, an to subhedral	fresh, intact rock.
29.1	29.2	0.10	100	NIL	0	dark glassy quartz, accessory	
29.2	32.1	0.90	100	NIL	0	biotite and schorl, sparse	Joint frequency is 1-5/m
32.1	32.7	0.60	100	NIL	0	alteration of feldspar to	at 60°-70° to C.A.
32.7	33.9	1.10	92	0.22	18	pinite, slightly ironstained	
33.9	35.1	1.20	100	0.44	37	adjacent to joints.	
35.1	37.5	2.40	100	0.84	35		
37.5	40.5	3.00	100	2.80	93	37.50 - 37.90 IRONSTAINED MICRO-	
40.5	43.5	3.00	100	2.90	97	35° FRACTURE NETWORK	
43.5	46.5	3.00	100	2.88	96		
46.5	49.5	3.00	100	2.54	85	38.10 - 38.37 GREY MICROGRANITE	
49.5	52.5	3.00	100	2.69	90		
52.5	54.2	1.70	100	0.90	53	38.92 - 40.60 CREAM AND GREY	
						MICROGRANITE	
						with sparse schorl	
						in veinlets	

Assays						
From	To					

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S4 Page: 2

From	To	Rec		RQD		Description	Structural	Assays From	Assays To
						41.44 - 41.59 IRONSTAINED MICRO-FRACTURE NETWORK 40°			
						43.50 - 43.62 " " 40°			
						44.40 - 44.74 " " 40°			
						46.10 - 46.50 " " irregular			
						46.60 - 47.15 " " irregular			
						53.00 - 53.65 " " irregular			
54.2	55.5	1.30	100	0.88	68	53.65 - 57.51 PARTLY DECOMPOSED WHITE AND GREY COARSE GRAINED GRANITE Ore between 36.55 & 53.65 but moderately extensive alteration of feldspar to clay, ironstained throughout	Rock is very broken, decomposed in part. Joint frequency is 3-4/m at 50°-70° to c.A., 1/m at low angle to c.A.		
55.5	57.2	1.70	100	0.94	55				
57.2	59.6	2.40	100	1.86	78				
59.6	62.1	2.50	100	2.22	89				
62.1	64.5	2.40	100	2.36	98				
64.5	67.5	3.00	100	2.41	80				
67.5	70.5	3.00	100	1.80	60				
						57.51 - 69.90 SLIGHTLY TO STRONGLY GREISENIZED CREAM AND GREY COARSE GRAINED GRANITE AND MINOR GREISEN The granite is as between 36.55 & 53.65 with slightly pink, cream feldspar, occasional alteration of feldspar to pinite and where slightly greisenized, to sericite.	Reasonably fresh, intact rock. Joint frequency is 1-3/m at 50°-70° to c.A., 1/m at ~30° to c.A.		

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S4 Page: 3

From	To	Rec (m)		Rec (%)		Description	Structural	Assays						
								From	To					
						57.51 - 57.64 50° 0.08	GREY GREISEN Grey and white quartz, sericite (after feldspar), accessory biotite and ~~chlorite~~?, sparse pyrite, trace arsenopyrite, iron-stained adjacent to contacts.							
						57.70 - 57.78 40° 0.07	GREY GREISEN As above, sparse pyrite (vuggy in part) trace purple fluorite							
						58.17 - 58.30 50° 0.11	GREY GREISEN As above, sparse pyrite mainly in core veinlet							
						59.23 - 59.31 40° 0.09	GREY GREISEN sparse pyrite as disseminations and in core veinlet							
						59.41 - 59.51 50° 0.08	GREY GREISEN As above, sparse pyrite as disseminations and in core veinlet							
						60.80 - 61.50 CON	IRONSTAINED MICRO-FRACTURE NETWORK							

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S4 Page: 4

From	To	Rec		RQD		Description	Structural
						64·70 - 65·10 IRONSTAINED MICRO- LON FRACTURE NETWORK	
						66·40 - 66·54 GREY GREISEN 35° 0·08 As above, common pyrite mainly in core veinlet, trace arsenopyrite, trace purple fluorite	
						68·54 - 68·70 MEDIUM GRAINED GRANITE	
						68·77 - 68·82 GREY GREISEN 40° 0.04 As above, trace pyrite	
						69·17 - 69·23 GREY GREISEN 50° 0.05 As above, sparse pyrite mainly in vuggy core veinlet	
70·5	71·3	0·80	100	NIL	0	69·90-75·15	
71·3	72·7	1·40	100	NIL	0	PARTLY DECOMPOSED CREAM AND	
72·7	73·1	0·40	100	0·10	25	GREY COARSE GRAINED GRANITE	
73·1	73·5	0·40	100	0·40	100	As between 36·55 & 53·65	Very broken to broken, weathered, extensive alteration of feldspar to clay between 69·90 & 73·05: core is expanding / decomposing in trays
73·5	76·5	3·00	100	1·40	47	with extensive alteration of feldspar to clay between 69·90 & 73·05, slightly to moderately intensely iron-stained / occasional iron-stained microfracture networks at 40°-50° to C.A.	Jointing subparallel to C.A. and at 60°-80° to C.A. at 6/m Fresh, unbroken from 73·05-75·10

Assays						
From	To					

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S4 Page: 5

From	To	Rec		RQD	
76.5	78.6	2.10	100	2.10	100
78.6	79.5	0.90	100	0.90	100
79.5	82.5	3.00	100	2.42	81
82.5	83.3	0.80	100	0.75	94
83.3	85.5	2.20	100	1.43	65
85.5	88.5	3.00	100	0.85	28
88.5	91.5	3.00	100	2.72	91
91.5	94.5	3.00	100	2.43	81
94.5	97.5	3.00	100	2.82	94

Description

75.15 – 75.60

GREY GREISEN AND MINOR PINKISH CREAM AND GREY COARSE GRAINED GRANITE

Greisen as between 57.51 & 57.64, granite as between 36.55 & 53.65; sericite is replacing feldspar, minor pyrite as disseminations and veinlets; greisen is at 45° to C.A.

Structural: Rock is fresh but cut by a joint subparallel to C.A.

75.60 – 96.00

SLIGHTLY TO MODERATELY GREISENIZED CREAM AND GREY QUARTZ - FELDSPAR PORPHYRY.

Sub to euhedral cream feldspar, an to subhedral, dark, glassy quartz, accessory biotite in a cream - grey quartz - feldspar groundmass; porphyroblasts constitute 60% - 70% of the rock; greisenized by veins and veinlets at 40°-50° to C.A.

Structural: Rock is generally fresh and intact except adjacent to joints subparallel to C.A. (see RQDs)

Joint frequency is 1-4/m at 50°-60° to C.A., 1/m at 30° to C.A., joints subparallel to C.A. are present.

77.05 – 77.19 GREY GREISEN

50° 0.09 As between 57.51 & 57.64, minor disseminated pyrite, sparse sphalerite, trace cassiterite (≤1mm)

77.53 – 77.66 GREY GREISEN

40° 0.09 As between 57.51 & 57.64; sparse - minor pyrite, sparse arsenopyrite,

Assays

From	To	Sn%
75.15	75.60	0.20
75.60	77.05	0.04
77.05	77.70	0.16
77.70	78.20	0.04

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S4 Page: 6

From	To	Rec (m)		Rec (%)		Description	Structural
						trace cassiterite (≤2mm), trace sphalerite	
						78.24 - 78.86 GREY GREISEN 45° 0.49 As between 57.51 & 57.64, porphyritic texture retained; minor pyrite, minor sphalerite, ~~minor~~ trace galena, sparse kaolin in vugh.	
						79.10 - 79.52 GREY GREISEN 45° 0.30 As between 57.51 & 57.64, porphyritic texture; sparse cassiterite grains and patches (≤5 mm across), sparse pyrite as disseminations and veinlet, trace sphalerite	
						81.13 - 81.24 GREY GREISEN 55° 0.09 As between 57.51 & 57.64; minor pyrite disseminations and veinlet, trace cassiterite?	
						83.01 - 83.21 GREY GREISEN 40° 0.13 As between 57.51 & 57.64, minor pyrite disseminations and veinlet, trace sphalerite	
						84.00 - 84.30 GREY GREISEN 45° 0.20 As between 57.51 & 57.64; minor pyrite disseminations	

Assays							
From	To	Sn%	Cu	Pb	Zn	As	
							5%.
78.20	79.55	0.12					
79.55	80.55	0.01					
80.55	81.25	0.04					
81.25	82.25	0.05					
82.25	83.00	0.04					
83.00	84.30	0.07					
84.30	85.30	<0.01					
85.30	86.30	0.18	<0.01	<0.01	0.24	<0.01	0.18.
86.30	87.30	0.12	<0.01	<0.01	0.11	<0.01	0.33.

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S4 Page: 7

From	To	Rec (m)	Rec (%)	Description	Structural
				and in veinlet, trace sphalerite and cassiterite.	
				88.25 GREY GREISEN 50° 0.02 As between 57.51 & 57.64	
				89.95 – 90.05 GREY GREISEN 50° 0.10 As between 57.51 & 57.64; sparse pyrite in core veinlet	
				90.05 – 90.30 INTERMIXED COARSE GRAINED GRANITE AND MICROGRANITE	
				90.30 – 90.65 GREY GREISEN 40° As between 57.51 & 57.64; sparse pyrite in veinlets, trace cassiterite	
				91.03 – 92.13 GREY GREISEN 50° 0.08 As between 57.51 & 57.64; sparse pyrite and iron oxides in core veinlet.	
				92.30 – 92.40 GREY GREISEN 50° 0.07 As between 57.51 & 57.64; sparse pyrite as disseminations and in veinlet, trace iron oxides	

Assays

From	To	Sn %	Cu	Pb	Zn	As	S%
87.30	88.30	0.01	<0.01	<0.01	0.07	<0.01	0.11
88.30	89.30	0.13	<0.01	<0.01	0.05	<0.01	0.45
89.30	89.80	<0.01	<0.01	<0.01	0.03	<0.01	0.13
89.80	90.60	0.30	0.02	0.01	0.21	<0.01	1.10
90.60	92.00	0.01	<0.01	<0.01	0.03	<0.01	0.14
92.00	93.00	0.18	<0.01	<0.01	0.08	<0.01	0.46

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From	To	Rec (m)	Rec (%)	Description	Structural
				93.08 – 93.13 GREY GREISEN 50° 0.04 As between 57.51 & 57.64; slightly vuggy, trace pyrite and iron oxides	
				93.50 – 94.05 INTERMIXED COARSE 45° 0.40 GRAINED GRANITE AND GREISEN Sparse to minor pyrite, sparse sphalerite in veinlet, trace cassiterite, slightly vuggy	
				OVER	

Assays

From	To	Sn %	Cu	Pb	Zn	As	S.
93.00	94.10	0.18	0.01	<0.01	0.11	<0.01	0.80.
94.10	95.10	0.02					
95.10	96.00	<0.01					
		Ag	Sb	Bi	Cd	U	g/t.
85.30	86.30	<12	<10	5	<15	16	
86.30	87.30	<12	<10	<5	<15	21	
87.30	88.30	<12	<10	<5	<15	31	
88.30	89.30	<12	<10	<5	<15	28	
89.30	89.80	<12	<10	<5	<15	29	
89.80	90.60	<12	<10	5	48	39	
90.60	92.00	<12	<10	<5	<15	29	
92.00	93.00	<12	<10	<5	15	29	
93.00	94.10	<12	<10	6	24	34	

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S4 Page: 9

From	To	Rec		RQD	
97.5	100.5	3.00	100	3.00	100
100.5	103.5	3.00	100	3.00	100
103.5	106.3	2.80	100	1.40	50
106.3	106.5	0.20	100	0.10	50
106.5	109.5	3.00	100	2.60	87
109.5	111.4	1.90	100	1.60	84
111.4	112.5	1.10	100	0.90	82
112.5	113.1	0.60	100	0.25	42
113.1	115.5	2.40	100	2.03	85
115.5	118.5	3.00	100	2.92	97

Description	Structural
96.00 - 96.78 PINKISH CREAM AND GREY MICROGRANITE a fine grained version of the granite between 36.55 & 53.60.	Rock is fresh. Joint frequency is 20/m at 60° to C.A., 1-2/m at 45° to C.A.
96.78 - 118.50 PINK-CREAM AND GREY COARSE GRAINED GRANITE AND MINOR GREY GREISEN Granite as between 36.55 & 53.65, greisen as between 57.51 & 57.64; slightly pinitized, khaki feldspar in part, clay on some joints 99.70 - 99.76 GREY GREISEN 40° 0.05 As above, sparse pyrite disseminations, trace arsenopyrite 100.06 - 100.24 GREY GREISEN 50° 0.15 As above, sparse pyrite disseminations, trace cassiterite 101.94 - 102.04 IRONSTAINED MICROFRACTURE NETWORK 40° 0.06 OVER	Rock is generally fresh except for broken zones: 104.60 - 106.50 broken zone adjacent to joint sub-parallel to C.A., partly decomposed to clay. 112.80 - 113.10 very broken zone adjacent to joint sub-parallel to C.A. Joint frequency is 0-2/m at 55-65° to C.A., joints subparallel to C.A. are present.

Assays

From	To	Sn%
96.00	96.90	0.09
96.90	97.80	<0.01
97.80	98.80	0.09
98.80	100.30	0.10

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SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE   Hole: S4   Page: 10

From	To	Rec (m)	Rec (%)	Description	Structural	Assays From	Assays To
				106.30 – 106.69 GREY GREISEN 50° 0.30 As above, ironstained mica, sparse pyrite dissaminations, trace arsenopyrite			
				109.05 – 109.33 GREY GREISEN 45° 0.20 As above, ironstained mica, trace pyrite, trace sphalerite			
				111.09 – 111.16 GREY GREISEN 50° 0.06 As above, granitic texture, no visible sulphides			
				111.42 – 111.55 GREY GREISEN 50° 0.10 As above, no visible sulphides, trace cassiterite?			
				111.93 – 112.16 GREY GREISEN 50° 0.18 As above, vuggy quartz in part, minor pyrite, trace cassiterite?			
				113.29 – 113.39 GREY GREISEN 50° 0.08 As above, trace pyrite, trace cassiterite			
				118.50 – 118.63 YELLOW BROWN PUG AND RUBBLE a fault?	See description!		

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: S4 Page: 11

From	To	Rec		RQD		Description	Structural
118·5	121·5	3·00	100	1·30	43	118·63 - 148·50	
121·5	124·5	3·00	100	2·10	70	PINK AND GREY COARSE GRAINED GRANITE WITH OCCASIONAL GREISEN ZONE	
124·5	127·5	3·00	100	1·38	46		
127·5	130·5	3·00	100	2·37	79		
130·5	133·5	3·00	100	2·47	82	As between 96·78 & 118·50.	Rock is generally fresh. The most broken zones are adjacent to joints subparallel to C.A.
133·5	136·5	3·00	100	2·15	72		
136·5	139·3	2·80	100	2·10	75	118·62 - 119·24 DECOMPOSED / DECOMPOSING COARSE GRAINED GRANITE Feldspars altered to clay	Joint frequency is 0-2/m at 55°-60° to C.A., joints subparallel to C.A. are present.
139·3	142·4	3·10	100	1·44	46		
142·4	145·5	3·10	100	2·83	94		
145·5	148·5	3·00	100	3·00	100		
						127·14 - 127·34 GREY GREISEN 50° 0·14 As between 57·51 & 57·64; minor sphalerite, sparse arsenopyrite, sparse bladed talc?, trace cassiterite grains (≤ ½ mm across)	
						128·30 - 128·43 GREY GREISEN 35° 0·08 As between 57·51 & 57·64; trace pyrite	
						128·79 - 128·83 GREY GREISEN 55° 0·03 As between 57·51 & 57·64; trace pyrite	
						129·78 - 130·00 GREY GREISEN 40° 0·15 As between 57·51 & 57·64; trace pyrite, sparse arsenopyrite and sphalerite mainly in core veinlet	

OVER

Assays						
From	To	Sn %				
127·10	128·45	0·06				
128·45	130·00	0·18				

SPECTRUM RESOURCES AUSTRALIA PTY. LIMITED

Project: ROYAL GEORGE Hole: 54 Page: 12

From	To	Rec (m)	Rec (%)	Description	Structural
				133.30 - 133.93 VEIN OF GRANITE WITH ~0° 60.01 MINOR SCHORL? AS CRYSTALS	
				136.52 - 136.69 GREY GREISEN 30° 0.06 As between 57.51 & 57.64; slightly mgny, trace pyrite and arsenite?	
				139.20 - 139.30 VERY BROKEN COARSE GRAINED GRANITE	
				141.11 - 141.22 GREISENIZED COARSE 50° 0.07 GRAINED GRANITE	
				142.02 - 142.07 GREY GREISEN 55° 0.04 As between 57.51 & 57.64; sparse sphalerite mainly in core vein let.	
				HOLE COMPLETED AT 148.50m	

Assays						
From	To					

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PAGE 1 OF 1

CORE GRIND SAMPLING - MACKINTOSH / HATFIELD

HOLE No. HL-80

487134

DATE

No.	SAMPLE NUMBER	INTERVAL	ELEMENTS REQUIRED	ST	SAMPLE NUMBER	INTERVAL	ELEMENTS REQUIRED	ST
1	333177	0-6.5			333209	303-305.7		
2	178	6.5-13.0			210	305.7-308.3		
3	179	13-20			211	308.3-320		
4	180	20-30			212	320-330		
5	181	30-40			213	330-340		
6	182	40-50			214	340-350		
7	183	50-60			215	350-360		
8	184	60-70			216	360-370		
9	185	70-80			217	370-380		
10	186	80-90			333218	380-397.4		
11	187	90-100						
12	188	100-110						
13	189	110-120						
14	190	120-130						
15	191	130-140						
16	192	140-150						
17	193	150-160						
18	194	160-170						
19	195	170-180						
20	196	180-190						
21	197	190-200						
22	198	200-210						
23	199	210-220						
24	333 200	220-230						
25	201	230-240						
26	202	240-250						
27	203	250-260						
28	204	260-270						
29	205	270-280						
30	206	280-290						
31	207	290-301.2						
32	333208	301.2-303						

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CORE GRIND SAMPLING - MACKINTOSH / HATFIELD

HOLE No. MAC-1

487135

DATE

No.	SAMPLE NUMBER	INTERVAL	ELEMENTS REQUIRED	ST	SAMPLE NUMBER	INTERVAL	ELEMENTS REQUIRED	ST
1	333138	0-9.8			333170	289-299		
2	139	9.8-17.7			171	299-309		
3	140	17.7-27.7			172	309-319		
4	141	27.7-37.7			173	319-329		
5	142	37.7-45.2			174	329-339		
6	143	45.2-50.2			175	339-349		
7	144	50.2-60.2			333176	349-358		
8	145	60.2-70.2						
9	146	70.2-80.2						
10	147	80.2-90.2						
11	148	90.2-100.2						
12	149	100.2-110.2						
13	150	110.2-120.2						
14	151	120.2-130.2						
15	152	130.2-140.2						
16	153	140.2-150.2						
17	154	150.2-160.2						
18	155	160.2-170.2						
19	156	170.2-180.2						
20	157	180.2-190.2						
21	158	190.2-202.2						
22	159	{202.2-203 205.7-206	*					
23	160	225.2-226.6						
24	161	206.0-216						
25	162	216-225.2						
26	163	203-205.7	*					
27	164	226.6-236.6						
28	165	236.6-249						
29	166	249-259						
30	167	259-269						
31	168	269-279						
32	333169	279-289						

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PAGE OF

CORE GRIND SAMPLING - MACKINTOSH / ~~HANPIELD~~

HOLE No. MAC 15

487136

DATE 29-4-88

No.	SAMPLE NUMBER	INTERVAL	ELEMENTS REQUIRED	ST	SAMPLE NUMBER	INTERVAL	ELEMENTS REQUIRED	ST
1	427932	4.0 - 14.0	10					
2	33	14.0 - 24.0	10					
3	34	24.0 - 32.5	8.5					
4	35	32.5 - 33.3	.8 *					
5	36	33.3 - 44.1	10.8					
6	37	44.1 - 46.2	2.1 *					
7	38	46.2 - 56.2	10					
8	39	56.2 - 66.2	10					
9	427940	66.2 - 70.7	4.5					
10	41	70.7 - 79.6	8.9					
11	42	79.6 - 82.6	3.2					
12	43	82.6 - 91.6	9					
13	44	91.6 - 96.6	5					
14	45	ST		✓				
15	46	96.6 - 102.4	5.8					
16	47	102.4 - 106.9	4.5					
17	48	106.9 - 110.7	3.8					
18	49	110.7 - 118.7	8					
19	427950	118.7 - 128.7	10					
20	51	128.7 - 138.7	10					
21	52	138.7 - 148.7	10					
22	427953	148.7 - 160.6	11.9					
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								

QUE RIVER MINING PTY LTD

71 Entries done 1/11/85

DATE SUBMITTED .....

DATE ASSAYED .....

D.D.H. No. MAC 3

SAMPLE ASSAY DATA

LOC'N C ZONE 8900N 5670

	SAMPLE No.	FROM (m)	TO (m)	L (m)	LITH'Y	S.G.	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Au	ppm Ba	ppm As	ppm Cr	ppm Ni	ppm Zr	ppm Ti	LENS
	333 703	29.5	32.5	3.0			155	30	200			1550	5	260	115	160	3750	136
	704	32.5	35.0	2.5			70	15	165			1650	<2	140	75	95	3200	
SPLIT	705	35.0	38.0	3.0			15	15	125			1300	<2	160	70	120	2700	
	706	38.0	41.0	3.0			125	20	225			1300	<2	190	90	150	3100	
SPLIT	707	41.0	44.0	3.0			35	20	180			1100	<2	210	75	140	3050	
	708	44.0	47.0	3.0			65	15	190			1250	<2	210	80	140	2950	
	709	47.0	49.5	2.5			60	20	135			1550	<2	230	85	140	2900	
	710	49.5	52.5	3.0			485	20	400			2100	<2	85	90	85	2250	
	711	52.5	54.6	2.1			120	20	160			1150	4	75	55	110	2300	
	712	54.6	56.6	2.0			360	20	370			1300	2	100	75	260	2650	
	713	56.6	59.6	3.0			305	15	340			1150	<2	65	60	240	2150	
	714	59.6	61.5	1.9			85	20	160			840	<2	75	45	220	2200	
	715	61.5	64.2	2.7			370	20	400			650	<2	70	70	220	2100	
	716	64.2	66.5	2.3			390	25	355			500	<2	50	75	140	3200	
	717	66.5	68.9	2.4			340	20	300			590	<2	40	70	120	3100	
SPLIT	718	68.9	69.9	1.0			130	25	150			380	<2	50	40	120	3150	
	719	69.9	72.1	2.2			405	20	420			1200	<2	<5	70	140	3200	
SPLIT	720	72.1	72.5	0.4			60	40	155			690	6	30	30	110	2550	
SPLIT	721	72.5	73.1	0.6			15	15	85			590	7	40	45	140	3500	
SPLIT	722	73.1	73.4	0.3			185	15	80			420	<2	70	30	110	2650	
	723	73.4	74.1	0.7			780	20	700			470	4	7	120	170	3200	
	724	74.1	74.7	0.6			760	15	700			390	9	100	170	130	2650	
	725	74.7	78.3	3.6			880	20	885			470	<2	25	230	170	3450	
	726	78.3	81.3	3.0			400	25	375			650	16	30	115	140	3300	
	727	81.3	83.5	2.2			310	30	300			1100	14	25	90	120	3050	
	728	83.5	87.1	3.6			150	15	175			1050	4	35	55	140	3350	
	729	87.1	90.7	3.6			165	20	190			610	<2	25	50	150	3450	
	730	90.7	94.7	4.0			765	35	270		<0.008	520	15	35	90	120	2950	4871137
	731	94.7	97.6	3.1			1000	25	60		<0.008	1100	7	25	35	120	2850	
SPLIT	732	97.6	98.4	0.6			110	20	95			770	<2	30	40	120	3100	
SPLIT	733	98.4	99.1	0.7			90	10	55			560	3	20	30	100	2850	
	734	99.1	102.2	3.1			285	15	70		<0.008	520	2	70	40	100	2850	
SPLIT	735	102.2	102.6	0.4			40	20	40			530	6	35	30	130	3200	
	333 736	102.6	105.5	2.9			265	20	60		<0.008	490	4	70	35	160	3900	

QUE RIVER MINING PTY LTD

DATE SUBMITTED .....

DATE ASSAYED .....

D.D.H. No. MAC3

SAMPLE ASSAY DATA

SAMPLE No.	FROM (m)	TO (m)	L (m)	LITH'Y	S.G.	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Au	ppm Ba	ppm As	LOC'N ppm Cr	ppm Ni	ppm Zr	ppm Ti	LENS
333 737	105·5	108·4	2·9			405	20	55		<0·008	450	9	30	40	130	3050	
738	108·4	111·4	3·0			600	15	55		<0·008	520	4	10	20	150	3200	
739	111·4	114·4	3·0			405	20	55		<0·008	560	4	<5	20	150	3150	
740	114·4	117·4	3·0			365	20	65		<0·008	640	<2	10	15	150	3200	
741	117·4	120·4	3·0			380	20	65		<0·008	600	3	8	25	130	3100	
742	120·4	123·4	3·0			335	20	45		<0·008	700	8	<5	15	170	3450	
743	123·4	126·4	3·0			310	5	50		<0·008	700	4	5	20	150	3300	
744	126·4	129·4	3·0			235	<5	55		<0·008	670	6	6	15	150	3150	
745	129·4	132·4	3·0			250	<5	50		<0·008	1000	<2	15	15	160	3350	
746	132·4	135·4	3·0			320	<5	50		<0·008	760	8	<5	20	150	3200	
747	135·4	138·4	3·0			245	5	55		<0·008	710	7	7	20	150	3200	
748	138·4	141·4	3·0			255	10	60		<0·008	690	5	10	20	140	3050	
749	141·4	144·4	3·0			400	30	410			680	9	9	135	140	3150	
750	144·4	147·4	3·0			410	10	50		<0·008	590	3	25	20	140	3200	
751	147·4	150·4	3·0			270	10	55		<0·008	590	4	25	25	130	3000	
752	150·4	153·4	3·0			210	5	50		<0·008	I/s	I/s	I/s	20	I/s	I/s	
753	153·4	156·4	3·0			285	10	60		<0·008	970	6	<5	20	150	3350	
754	156·4	159·4	3·0			195	10	45		<0·008	640	<2	<5	20	170	3500	
755	159·4	161·4	2·0			800	5	55		<0·008	610	<2	<5	20	160	3400	
756	161·4	164·4	3·0			65	5	60			370	4	30	30	110	2600	
757	164·4	167·4	3·0			145	5	55			770	<2	30	20	140	3150	
758	167·4	170·4	3·0			190	5	65		<0·008	1550	<2	30	25	120	2900	
759	170·4	173·4	3·0			260	5	70		<0·008	3900	<2	35	30	140	3000	
760	173·4	176·4	3·0			170	<5	85		<0·008	1050	<2	30	30	150	3500	
761	176·4	179·4	3·0			230	5	75		<0·008	720	<2	30	30	130	3200	
762	179·4	182·4	3·0			200	5	75		<0·008	1050	<2	15	30	130	3100	
763	182·4	185·4	3·0			260	<5	60		<0·008	1250	<2	30	30	180	4050	
264	185·4	188·4	3·0			150	<5	60			1550	5	25	25	160	3650	
765	188·4	191·4	3·0			145	5	80			2200	<2	20	35	130	2900	
766	191·4	195·5	4·1			65	5	60			910	<2	15	35	120	2800	
767	195·5	197·0	1·5			30	<5	60			630	<2	100	25	100	2400	
768	197·0	199·3	2·3			310	<5	60		<0·008	1850	<2	15	30	120	2700	
769	199·3	201·6	2·3			170	<5	50		<0·008	1450	<2	20	30	150	3300	
335 770	201·6	204·6	3·0			230	<5	60		<0·008	2050	<2	<5	20	150	3300	

L3 L7

4871138

QUE RIVER MINING PTY LTD

DATE SUBMITTED .....
DATE ASSAYED .....

D.D.H. No. MAC 3

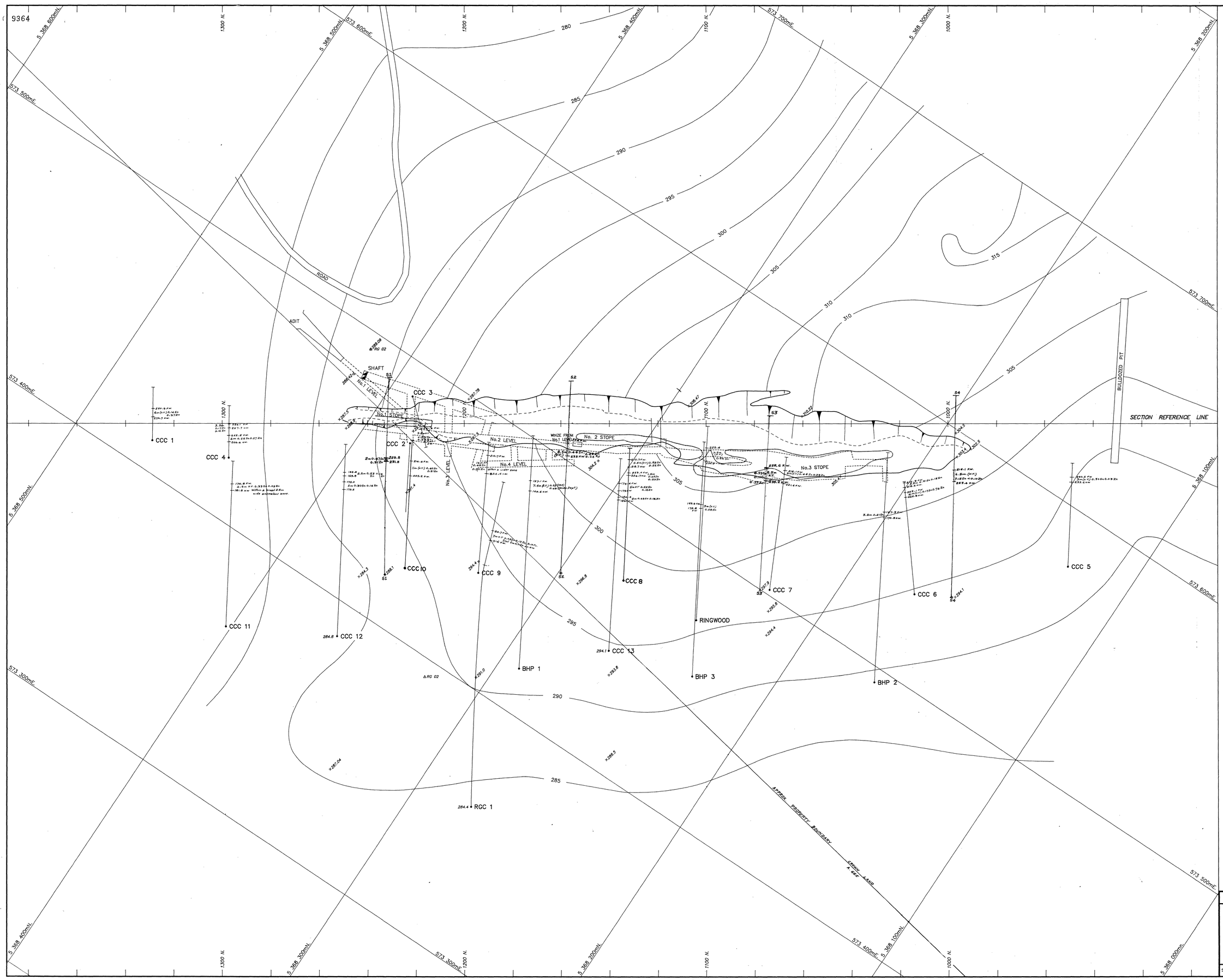
SAMPLE ASSAY DATA

LOC'N .....

SAMPLE No.	FROM (m)	TO (m)	L (m)	LITH'Y	S.G.	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Au	ppm Ba	ppm As	Cr	Ni	Zr	Ti	LENS
333 771	204·6	207·6	3·0			140	5	75		<0·008	1900	<2	<5	20	160	3600	138
772	207·6	210·6	3·0			180	<5	55		<0·008	2350	<2	<5	20	150	3300	
333 773	210·6	213·3	2·7			165	5	50		<0·008	1450	<2	<5	20	150	3350	
333 774	CHECK	SAMPLE				120	200	2250	1		1050	25	810	265	85	2250	

487139

9364



487140

5 cm

9364

90-3129.

SPECTRUM RESOURCES AUSTRALIA PTY. LTD.

ROYAL GEORGE MINE

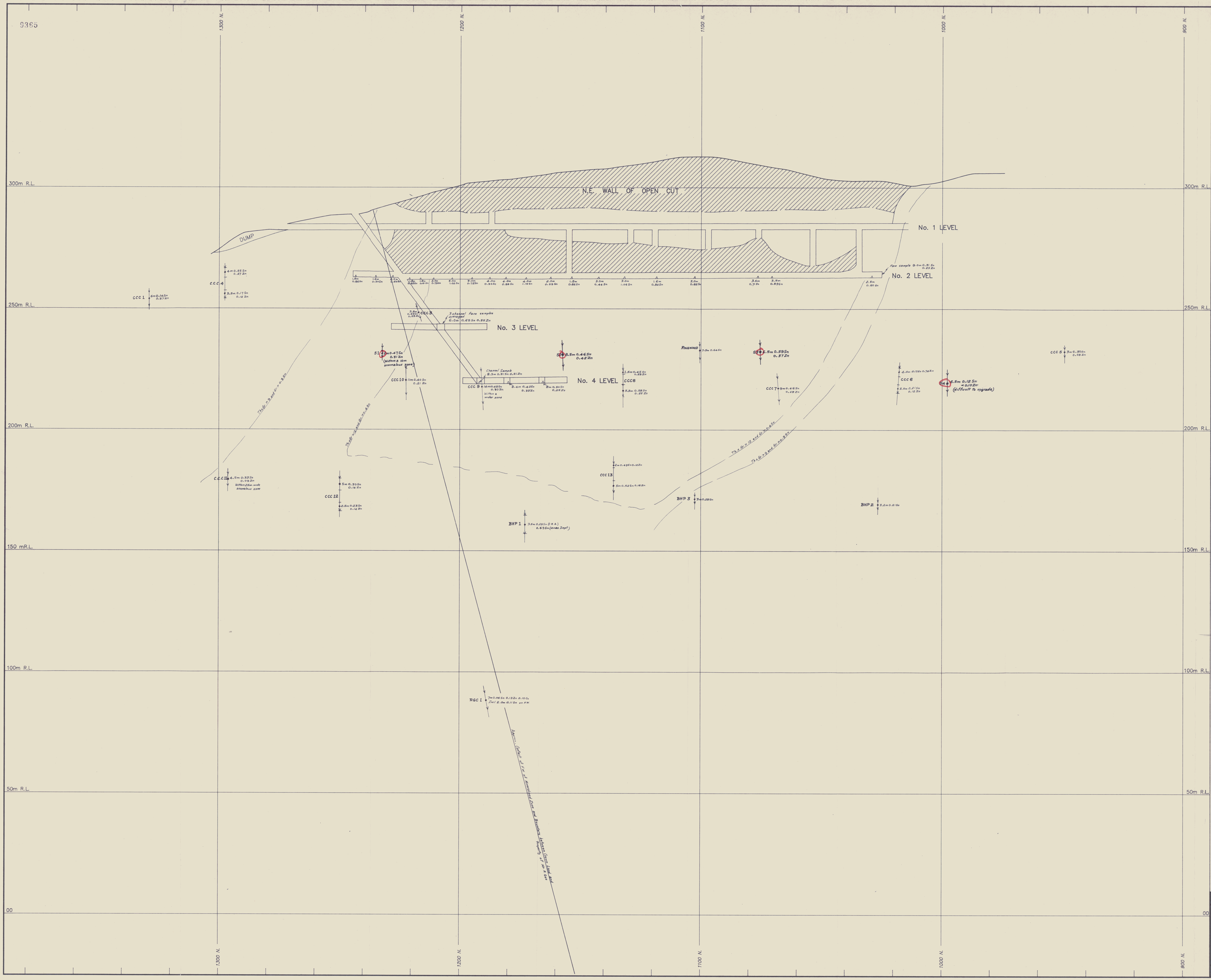
SURFACE PLAN SHOWING WORKINGS AND DRILL HOLES

DRAWN BY : L.A.N.
DRAFTSMAN: T.O.D.S.
DATE : Aug. '89
REVISIONS : Apr 90
FILE No.

SCALE 1 : 500 METRES

FIG. 2

9365



Notes:

1. Intersection widths are estimated Horizontal Widths (m.)
2. Underground channel samples (^) were generally taken in the floor or along walls in the case of cross-cuts. Sampling by Cornwall Coal Co.
3. Drill hole entry point (H.W.)
   Intersection mid-point
   Drill hole exit point (F.W.)
4. CCC = Cornwall Coal Company
   B.H.P. = B.H.P.
   RGC = CRA
   Ringwood = Ringwood Syndicate
   S = Spectrum Resources
   } Drill Hole Prefixes
5. Property boundary is non-vertical because mineralised zone dips West.
6. Base drafting by CAD by Tas. Geol. Drafting Services
   Drilling results hand plotted by L.A. Newnham.
7. Grid is A.M.G. (R.L.'s)
   Projection parallels Section Reference Line as shown on corresponding plans.

487141

5 cm

9365

90-3129.

SPECTRUM RESOURCES AUSTRALIA PTY. LTD.

ROYAL GEORGE MINE

LONGITUDINAL PROJECTION

(LOOKING NORTH-EAST)

DRAWN BY :	L.A.N.
DRAFTSMAN:	T.G.D.S.
DATE	: APR 90
REVISIONS	:
FILE No.	

SCALE 1 : 500 — 10 0 10 20 METRES

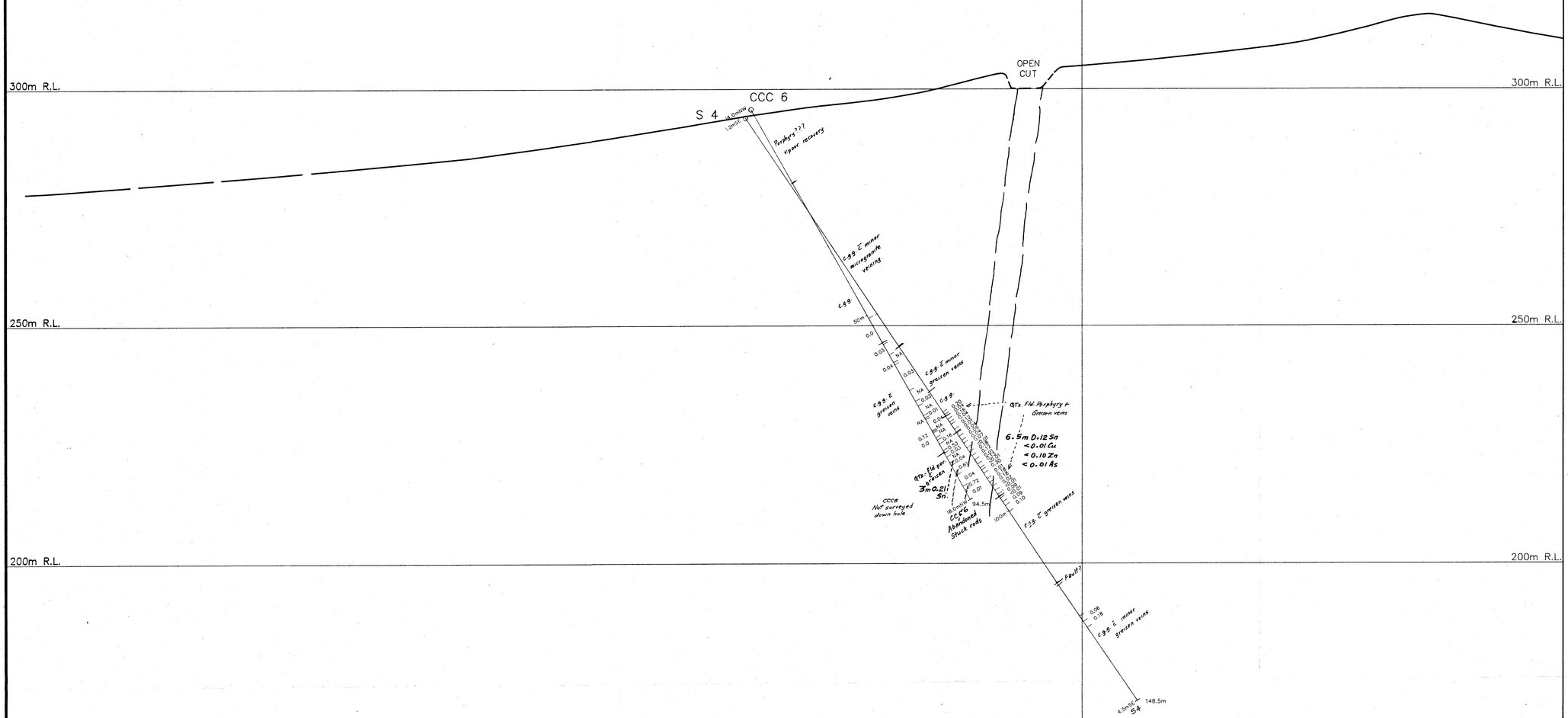
FIG. 3

9366

SOUTH – WEST

NORTH – EAST

SECTION REFERENCE LINE



487142

9366

5 cm

90-3129.

SPECTRUM RESOURCES AUSTRALIA PTY. LTD.

ROYAL GEORGE MINE

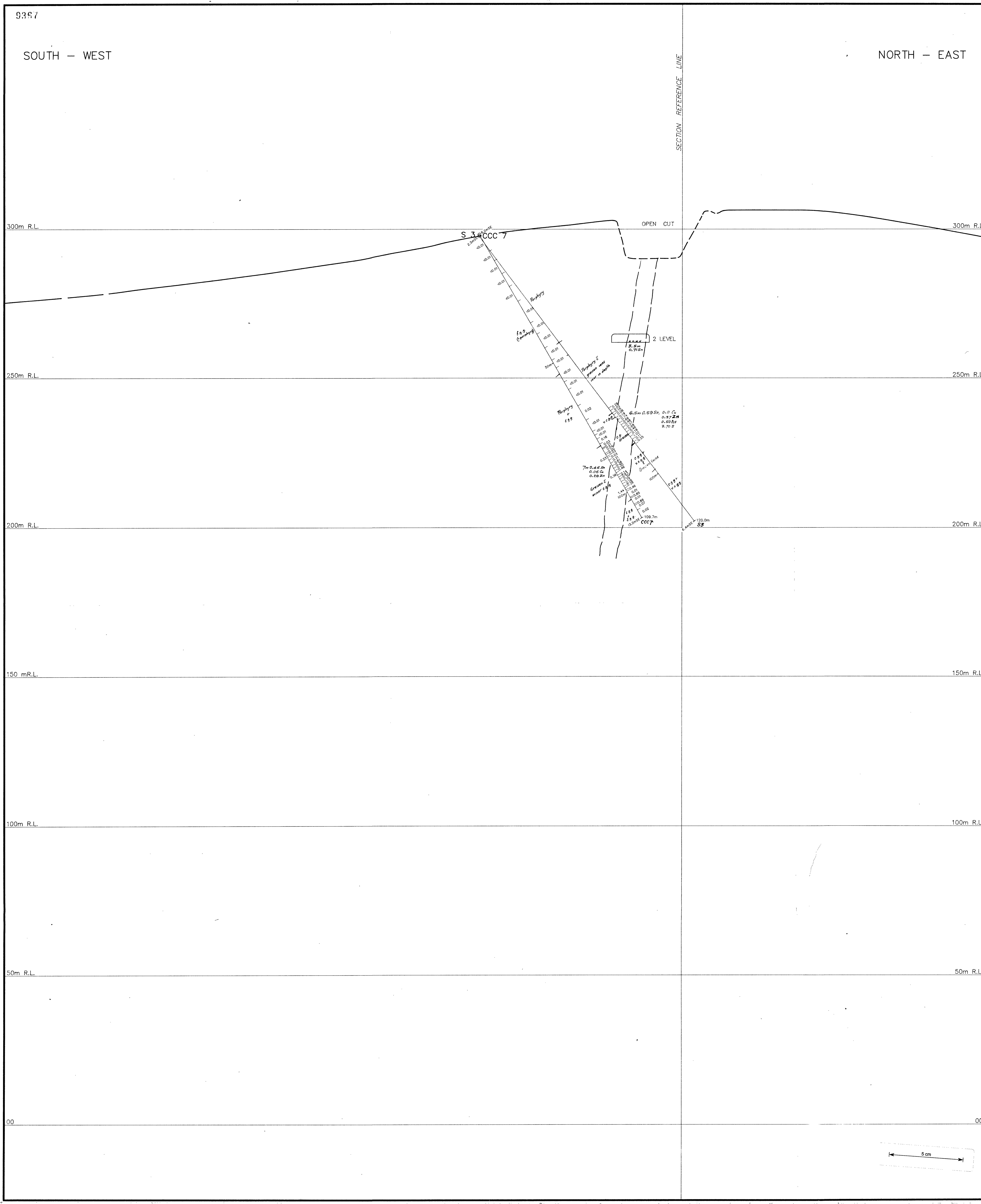
CROSS – SECTION
1000m N.
(LOOKING NORTH – WEST)

DRAWN BY : M.V.McK.
DRAFTSMAN : T.G.D.S.
DATE : Nov.'89
REVISIONS :
FILE No. RGXS1000

SCALE 1 : 500
METRES

FIG. 4

9367



9367

487143

90-3129.

SPECTRUM RESOURCES AUSTRALIA PTY. LTD.

ROYAL GEORGE MINE

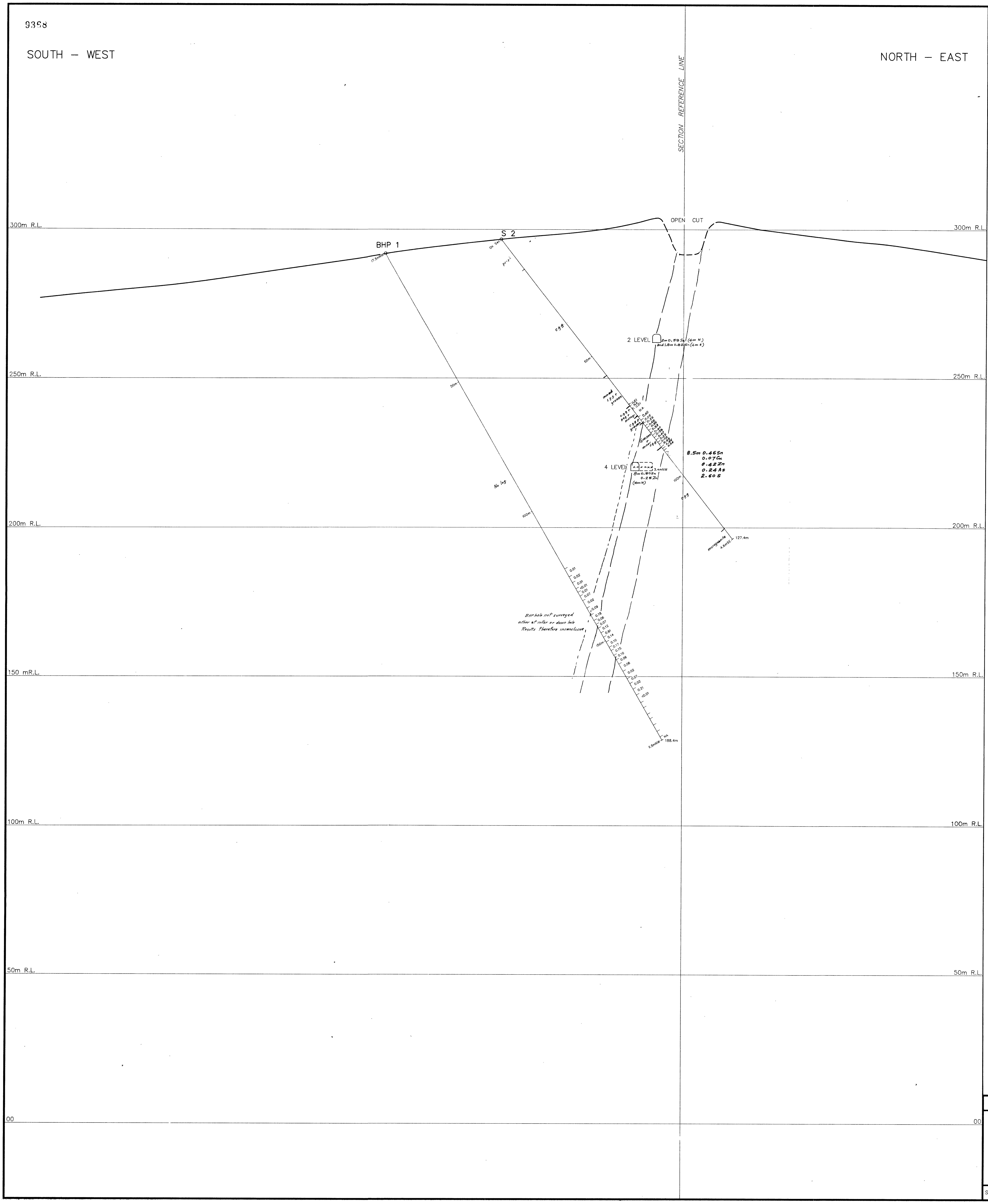
CROSS – SECTION
1080m N.
(LOOKING NORTH – WEST)

DRAWN BY	M.V.McK.
DRAFTSMAN	T.G.D.S.
DATE	Nov. '89
REVISIONS	
FILE No.	RGXS1080

SCALE 1 : 500 METRES

FIG. 5

9368



9368

5 cm

90-3129.

487144

SPECTRUM RESOURCES AUSTRALIA PTY. LTD.

ROYAL GEORGE MINE

CROSS – SECTION
1160m N.
(LOOKING NORTH – WEST)

DRAWN BY	M.V.McK.
DRAFTSMAN	T.G.D.S.
DATE	Nov.'89
REVISIONS	
FILE No. RGXS1160	

SCALE 1 : 500 — 10 0 10 20 METRES

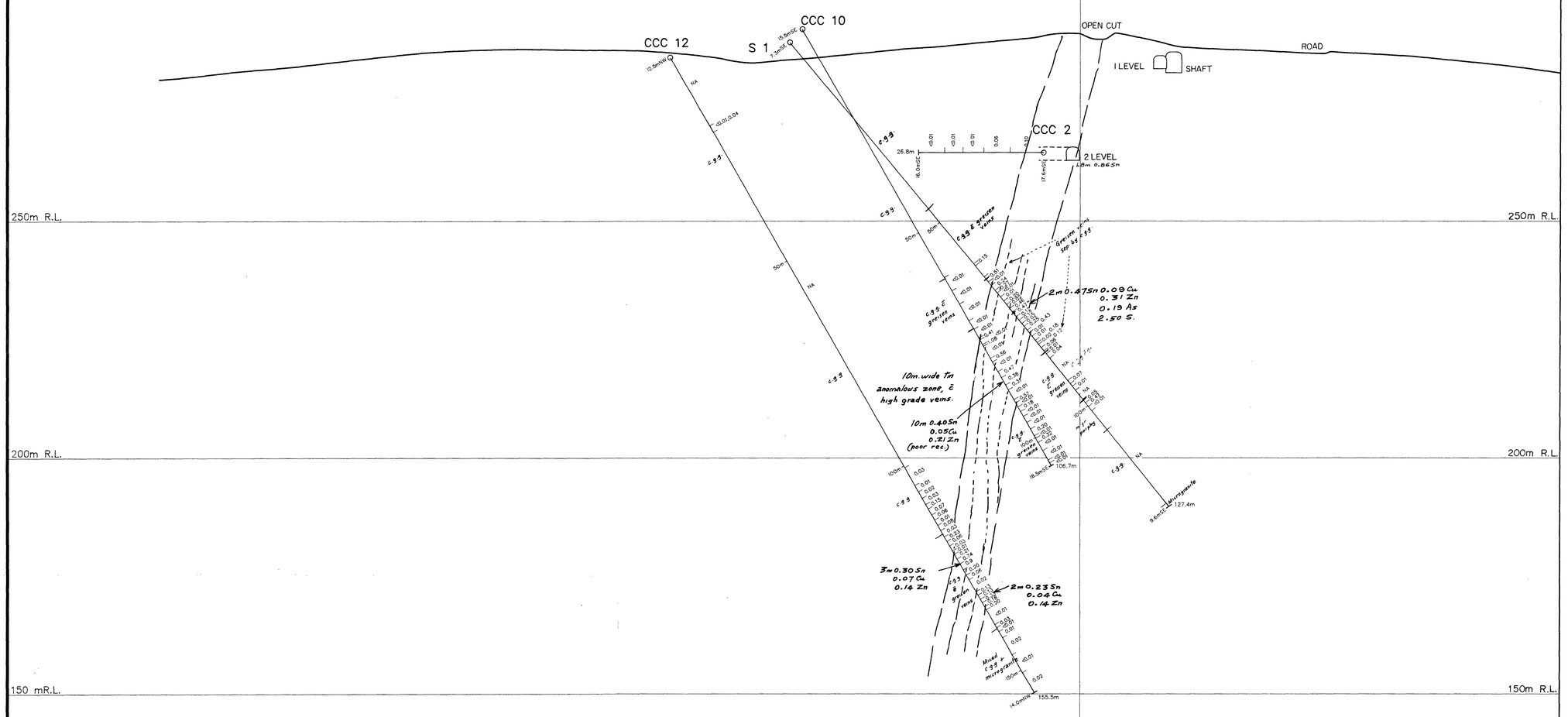
FIG. 6.

9369

SOUTH – WEST

NORTH – EAST

SECTION REFERENCE LINE



9364

90-3129.

487145

SPECTRUM RESOURCES AUSTRALIA PTY. LTD.

ROYAL GEORGE MINE

CROSS – SECTION
1240m N.
(LOOKING NORTH – WEST)

DRAWN BY : M.V.McK.
DRAFTSMAN T.G.D.S.
DATE Nov.'89
REVISIONS

FILE No. RGXSI240

SCALE 1 : 500

FIG. 7