

MICROFILMED

GEOPHOTO MINERALS REPORT 1970/24

MEMORANDUM REPORT ON THE BALD HILLS PROJECT,
UPPER CASCADE RIVER, E.L. 6/68.

I. Mortimore
J. Rattigan.

April, 1970.

INTRODUCTION

The target is a mineralised zone surrounding an area of "mineralising granite", an intrusive in the composite Blue Tier Batholith. The distribution of this granite, here termed the "Cascade Mass" after Rattigan (1964) is suggested by Gamma Ray Spectrometer patterns for Bi²¹⁴, Tl²⁰⁸ and K⁴⁰ and their ratios. However, this granite (or acid adamellite) boundary is not as obvious (on mapping through hand specimen inspection) as might be expected, but an approximate boundary is figured on Drawing 1/118.

DRAINAGE GEOCHEMISTRY

Stream sediment geochemistry has outlined zones of moderately high copper, zinc, molybdenum-bismuth and tin, when granite threshold is considered. All anomalies are co-incident or partly co-incident in all the upper stream catchments about Bald Hill, and surround the contact.

Some of this anomalous stream sediment base metal content may relate to contamination from the "Rattler" and other prospects on Bald Hill but a wide zone of interest is indicated.

ROCK GEOCHEMISTRY AND PRELIMINARY CONCLUSIONS

Whole of rock geochemistry and mineral samples have been collected but analysis of all of these has not yet been completed. Some narrow sulphide bearing veins show Cu to 1.6% and Arsenic to 40%. The association of Cu-Zn-As with granitic genesis often points to small, rich, vein-filling bodies rather than large disseminated or stockwork bodies.

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However, the anomalous Mo and Bi with copper, over a wider area suggests follow-up work be most particularly concerned with the latter type of Cu-Mo body.

Greisenous zones and stockworks should offer prospects for hard rock tin evident in the high (to 1.2%) Sn present in stream sediments.

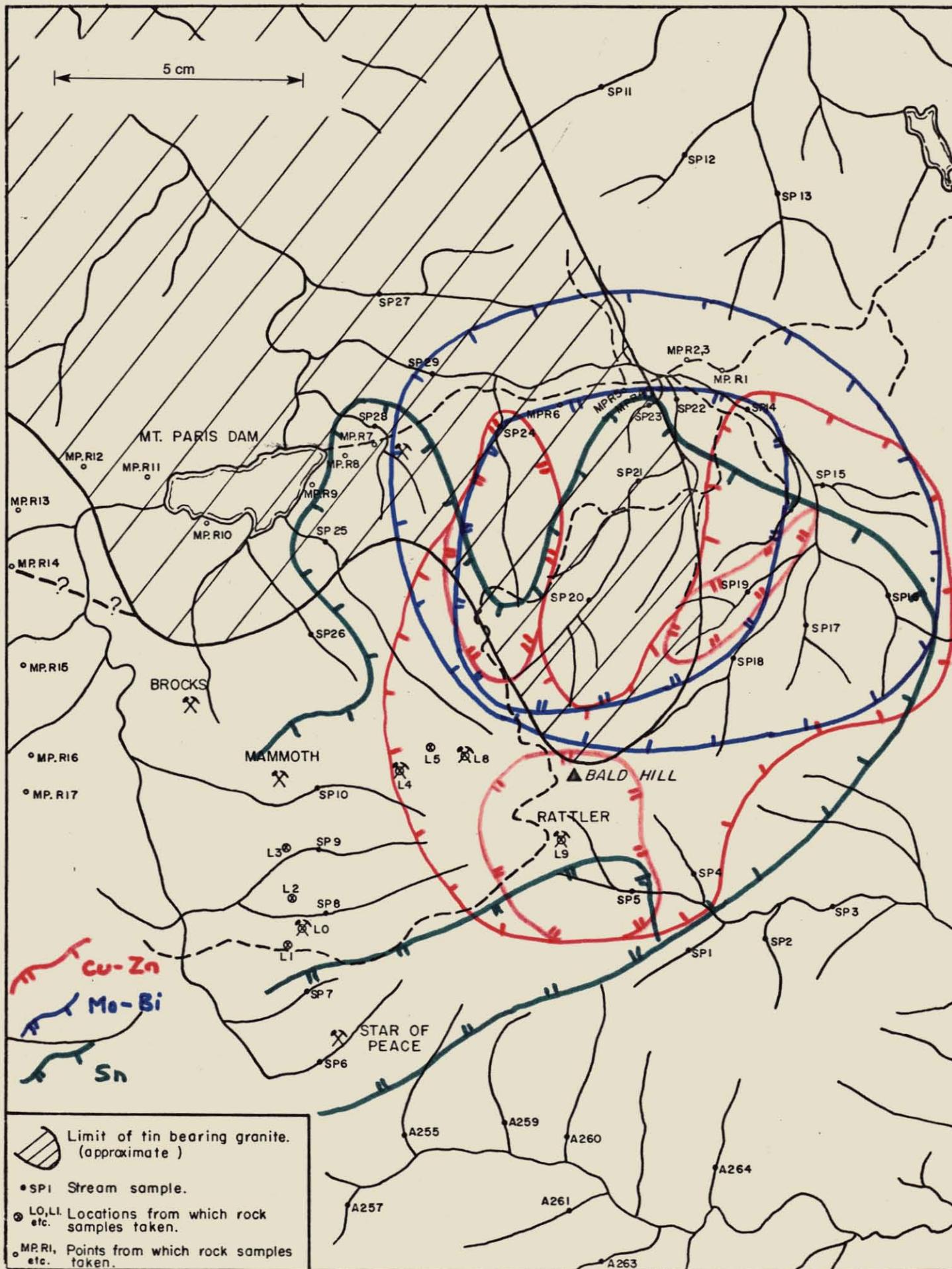
RECOMMENDATION

A zone (of 6,000' x 6,000') particularly about the two-barred peak anomalies outlined on 1/118 attached, should be closely inspected and gridded as necessary for systematic rock and soil geochemistry with a view to selecting the most prospective lines for geophysical (E.M. or I.P. techniques) and/or drilling.

In geological mapping, attention should be paid to

- 1) density of fracturing and veining
- 2) sulphide oxidation products staining granite
- 3) greisenous zones
- 4) copper staining and molybdenite splashing
- 5) any individual fractures or shears offering width for fracture filling or replacement mineralisation.

J.H. Rattigan
I. Mortimore



TEXINS DEVELOPMENT PTY. LTD.
 E.L. 6/68 STAR OF PEACE - BALD HILL AREA
 ROCK AND SOIL GEOCHEMISTRY

DRAWING NO. 1/118

SCALE : 1:25,000



GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001364 PROJECT No.: EL6/68

017005

LAB. SHEET No.: 236/1 SAMPLE TYPE: Stream Sediment DATE: 15th April, 1970

DATA BASE NO

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SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm			
SP 1A	9461	2	15	15	BLD			
SP 2A	9462	30	40	60	1			
SP 3A	3	10	35	30	1			
SP 4A	4	80	35	110	1			
SP 5A	5	125	45	180	2			
SP 6A	6	5	20	35	BLD			
SP 7A	7	20	30	75	1			
SP 8A	8	20	40	70	1			
SP 9A	9	25	40	115	1			
SP 10A	9470	15	25	55	1			
SP 11A	1	5	20	20	BLD			
SP 12A	2	15	35	50	1			
SP 13A	3	15	40	55	1			
SP 14A	4	100	50	140	2			
SP 15A	5	45	30	100	1			
SP 16A	6	65	40	110	1			
SP 17A	7	40	25	70	1			
SP 18A	8	45	30	70	1			
SP 19A	9	90	45	145	2			
SP 20A	9460	15	45	85	1			
SP 21A	1	15	35	95	1			
SP 22A	2	10	30	50	1			
SP 23A	3	10	30	50	1			
SP 24A	4	75	40	115	2			
SP 25A	5	10	35	35	1			
SP 26A	6	15	35	55	1			
SP 27A	7	5	30	35	1			
SP 28A	8	5	30	60	1			
SP 29A	9489	50	35	110	1			

METHODS: Cu, Pb, Zn, Ag by G.R.C. No. 1.

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

B.L.D: Below Limit of Detection.

A. W. J. Per D. Longhrey

Chief Chemist



GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001362 PROJECT No.: EL6/68

017006

LAB. SHEET No.: 242/1. SAMPLE TYPE: Rock DATE: 21st April, 1970.

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Mo ppm	Bi ppm
SP R 1	70-C-1361	1.2%	40	100	7	3.4%	110	50
SP R 2	70-C-1362	1.6%	75	30	9	40%	100	340
SP R 3	70-C-1363	70	35	115	3	600	70	10
SP R 4	70-C-1364	85	50	90	2	250	70	10
SP R 5	70-C-1365	1.1%	30	50	5	10%	80	60
SP R 6	70-C-1366	0.8%	20	75	8	2.2%	70	310
SP R 7	70-C-1367	1.3%	60	25	6	24%	100	110

METHODS: Cu, Pb, Zn, Ag, by G.R.C. No. 100.
 Mo, Bi by G.R.C. No. 102.
 Sn by G.R.C. No. 103.
 As by G.R.C. No. 104.
 W by G.R.C. No. 106.



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B.L.D: Below Limit of Detection.
 Chief Chemist

Ray W. Zedler
 Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001362 PROJECT No.: EL6/68

017007

LAB. SHEET No.: 242/2. SAMPLE TYPE: Rock DATE: 21st April, 1970.

SAMPLE No.	LAB. No.	Sn %	W ppm						
SP R 1	70-C-1361	0.36	BLD						
SP R 2	70-C-1362	0.04	BLD						
SP R 3	70-C-1363	0.04	BLD						
SP R 4	70-C-1364	0.06	BLD						
SP R 5	70-C-1365	0.08	BLD						
SP R 6	70-C-1366	0.21	BLD						
SP R 7	70-C-1367	0.03	BLD						

METHODS:



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Chief Chemist

Ray W. Zepher

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CHEMICAL LABORATORY REPORT 017008

FIELD SHEET No.: 001366 PROJECT No.: EL6/68 Star of Peace/Bald Hill

LAB. SHEET No.: 249/1. SAMPLE TYPE: Rock DATE 27th April, 1970.

SAMPLE No.	LAB. No.	Sn							
MP R1	70-D-93	BLD							
MP R2	70-D-94	BLD							
MP R3	70-D-95	BLD							
MP R4	70-D-96	BLD							
MP R5	70-D-97	BLD							
MP R6	70-D-98	BLD							
MP R7	70-D-99	BLD							
MP R8	70-D-100	BLD							
MP R9	70-D-101	BLD							
MP R10	70-D-102	BLD							
MP R11	70-D-103	BLD							
MP R12	70-D-104	BLD							
MP R13	70-D-105	BLD							
MP R14	70-D-106	BLD							
MP R15	70-D-107	BLD							
MP R16	70-D-108	BLD							
MP R17	70-D-109	BLD							

METHODS: Sn by G.R.C. No. 6A.



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B.L.D: Below Limit of Detection.

Chief Chemist *Ray W. Zedler*

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GEOCHEMICAL LABORATORY REPORT 017009

FIELD SHEET No. 001363 PROJECT No. EL6/68 Star of Peace/Bald Hill Area

LAB. SHEET No. 250/1. SAMPLE TYPE: Stream Sed. DATE: 27th April, 1970.

SAMPLE No.	LAB. No.	As ppm	Sn %	Mo ppm	Bi ppm	W %			
SP 1	70-D-1	15	BLD	10	5	BLD			
SP 2	70-D-2	25	BLD	20	20	BLD			
SP 3	70-D-3	30	BLD	20	15	BLD			
SP 4	70-D-4	45	0.10%	15	10	BLD			
SP 5	70-D-5	60	0.42%	20	10	BLD			
SP 6	70-D-6	20	0.32%	10	10	BLD			
SP 7	70-D-7	25	1.05%	20	15	BLD			
SP 8	70-D-8	*	0.15%	20	15	BLD			
SP 9	70-D-9	25	0.13%	10	5	BLD			
SP 10	70-D-10	35	0.11%	15	5	BLD			
SP 11	70-D-11	10	0.10%	10	5	BLD			
SP 12	70-D-12	20	0.05%	20	10	BLD			
SP 13	70-D-13	25	BLD	20	10	BLD			
SP 14	70-D-14	25	BLD	40	20	BLD			
SP 15	70-D-15	25	BLD	25	15	BLD			
SP 16	70-D-16	30	0.63%	25	15	BLD			
SP 17	70-D-17	30	0.13%	20	15	BLD			
SP 18	70-D-18	25	0.15%	20	15	BLD			
SP 19	70-D-19	30	BLD	30	20	BLD			
SP 20	70-D-20	25	0.10%	15	10	BLD			
SP 21	70-D-21	30	0.08%	20	10	BLD			
SP 22	70-D-22	20	BLD	15	10	BLD			
SP 23	70-D-23	15	0.05%	20	10	BLD			
SP 24	70-D-24	25	BLD	30	20	BLD			
SP 25	70-D-25	15	0.10%	20	15	BLD			
SP 26	70-D-26	20	BLD	15	10	BLD			
SP 27	70-D-27	20	BLD	20	10	BLD			
SP 28	70-D-28	35	0.10%	15	10	BLD			
SP 29	70-D-29	35	BLD	25	15	BLD			

METHODS: As by G.R.C. No. 3A.
 Sn by G.R.C. No. 6A.
 Mo, Bi, by G.R.C. No. 2.
 W by G.R.C. No. 4A.
B.L.D.: Below Limit of Detection.

* : Insufficient Sample.
 Chief Chemist

Ray W. Yerby



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