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GEOPHOTO MINERALS REPORT 1971/31

DIAMOND DRILLING ON THE RATTLER  
HILL PROSPECT, BALD HILL, E.L. 6/68

N.E. TASMANIA

Prepared by

GEOPHOTO RESOURCES CONSULTANTS

for

TEXINS DEVELOPMENT PTY. LIMITED

I.R. MORTIMORE

Resident Geologist

DECEMBER, 1971.

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by A.C. Johnston

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Geochemical Laboratory Reports

ENCLOSURES

2 sheets Geological Map - drawing 1/146 .....in back-cover  
pocket.

ABSTRACT

Based on geologic and geochemical surveys done in previous years, several anomalies were defined and diamond drilling was proposed to test these anomalies.

This report, which is based on lithologic and chemical data from the diamond drilling programme, shows that no intersections of economic significance were cut. The mineralization intersected in these diamond drill holes is not significant either because of low grade or where the grade is significant the width is not practical.

Data compiled to date are comprehensive enough to recommend that further expenditure in this area for the same type of mineralization is not warranted.

INTRODUCTION:

The area of interest is one of approximately 25 acres covering old workings, both hard rock and alluvial, on Rattler Hill, a high granitic ridge (R.L. 2850 feet) to the south of the Mt. Paris Dam, three miles S.W. of Weldborough.

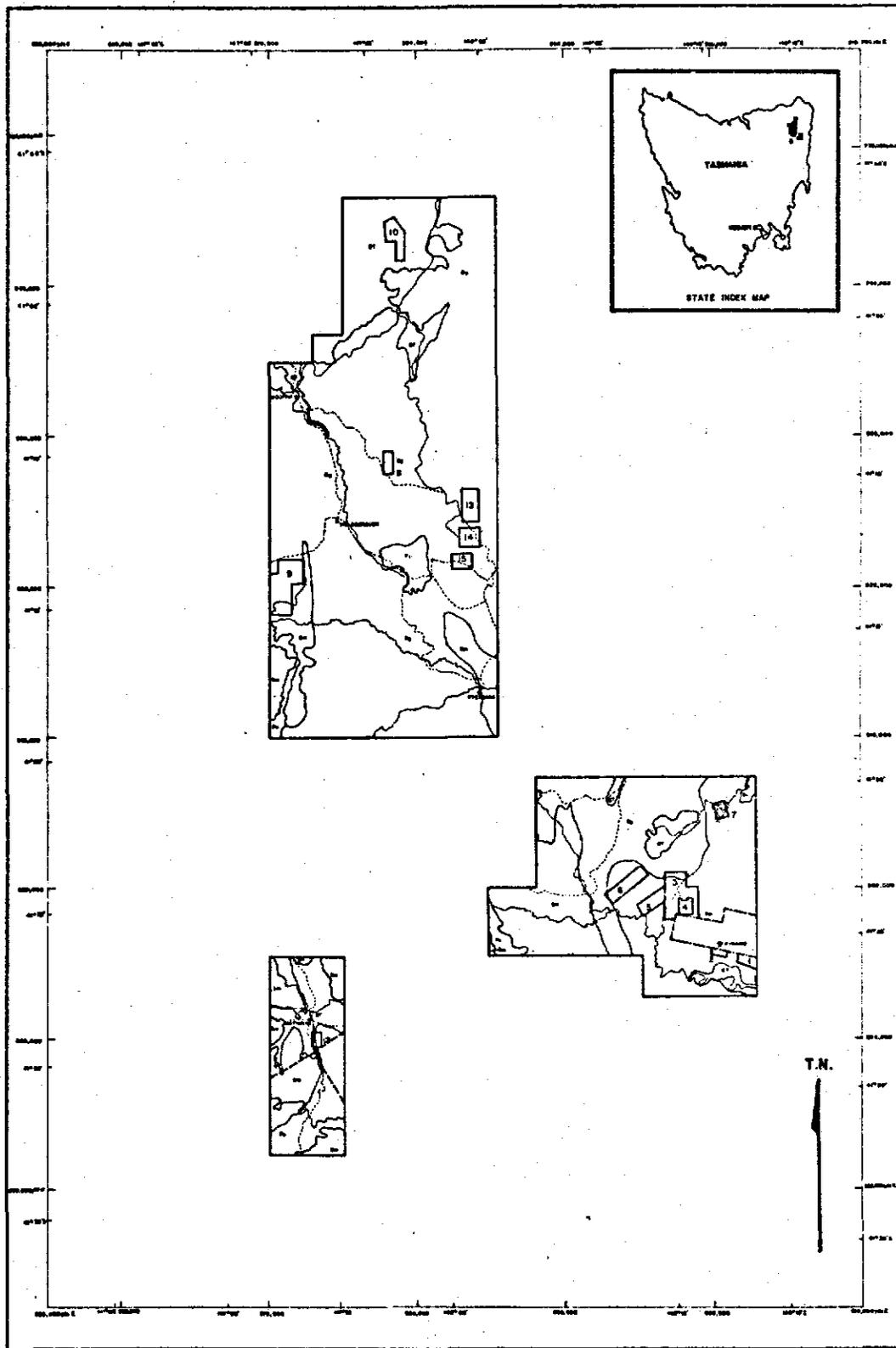
It forms part of the Bald Hill Project area (area 9 on Location Map) in which Texins have carried out considerable exploration including geochemical stream and soil surveys, rock geochemistry, geological mapping and diamond drilling.

The Bald Hill area, as a whole, represents the southern extremities of the Weldborough Tin field which provided the once thriving Weldborough with its stable industry.

The mineralizing 'tin' granites of Devonian age cover the large area extending from the Bald Hill/Bells Hill area in the south to the Braxholm and Derby areas in the north.

The granite carries trace amounts of tin, but economic concentrations of this element are commonly found in greisen or quartz lodes of pneumatolytic and/or hydrothermal origin, which traverse these granites and in the immediate vicinity, the contact rocks which consist of Devonian adamellites, granodiorites and Silurian metasediments.

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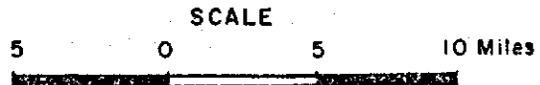


LEGEND

- |                       |  |
|-----------------------|--|
| 1. NORTH SCAMANDER.   | 9. BALD HILL, STAR OF PEACE.                               |
| 2. GREAT PYRAMID.     | 10. EASTERN LEADS.   |
| 3. WOLFRAM CREEK.     | 12. MATHINNA.  |
| 4. LUTWYCHE.          | 13. MICHAEL, PERENNIAL, MOON,<br>MARIE, HOPE CREEK, GOUGH. |
| 5. COPPER SHOW CREEK. | 14. S. CROSS, ETHEL, SUMMIT,<br>AUSTRALIA, LOTTAH.         |
| 6. UPPER SCAMANDER.   | 15. LIBERATOR, CRYSTAL HILL.                               |
| 7. CONSTABLES CREEK.  |  |
| 8. FROME RIVER.       |  |

EL. 6/68 NORTH EAST TASMANIA

GRID LOCATION MAP



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Many of these lodes have been worked on a small scale, the style of working itself being indicative of unprofitable operations. Most have been prospected in some small way, with numerous trenches and shafts scattered across the area.

The Rattler Hill workings appear to fall into this category with a number of trenches, two shafts and an adit all apparently excavated for prospecting purposes. They are found along a strike length of approximately 1,400 feet.

Dump material carries visible cassiterite, chalcopyrite and secondary copper products, arsenopyrite and sphalerite.

Old reports relate the trenches as establishing the width of the main greisen to be between 50 and 70 feet over a distance of 1,600 feet. Values of representative samples taken from these workings and analysed by the Mines Department Laboratories, ranged between 0.32% and 0.70% metallic tin. A bulk sample of 50 tons of ore apparently yielded 0.75% metallic tin.

Exploration work carried out by Texins has included soil and rock geochemistry and geological mapping.

GEOLOGY

A detailed description of the geology of the area is found in Appendix 1.

DIAMOND DRILLING PROGRAMME

Three diamond drill holes were drilled on tin and copper geochemical anomalies and on geological targets outlined in the mapping of the area. Following is a brief summary of geological and geochemical data gained from this programme.

Detailed descriptions of the core are contained in the reports of the completed drilling records for the three holes, while assay results are included in this report.

Bald Hill D.D.H. 1

Co-ordinates of Collar: 280 feet from 00+00 datum (Grid B) on bearing  $231^{\circ}$ . Bearing:  $060^{\circ}$  Depression:  $45^{\circ}$   
(See geology maps in back-cover pocket for location).

The objectives of this hole were two-fold. It was initially designed to test, at a shallow depth (60 feet to 90 feet), a number of veins of black mica greisen striking

170° and exposed in the two prospect shafts and costeans found in the western part of the project area. On the surface these veins are seen to vary in width up to 3'10". Samples, selected randomly from the costeans, had yielded extremely high tin values (to 16.6% Sn) and samples of dump material yielded copper values of significance (to 0.62% Cu).

The second objective was to test at depth, by extending the hole to around 400 feet, quartz greisens and associated greisenised granites striking in an E-W direction across the area.

Both objectives were achieved although the findings were generally disappointing.

Coarse grained biotite granite was encountered to 58'. Below this depth the rock changes to a fine grained granite which was greisenised to varying degrees to 101 feet. Isolated veins (to 10" in width) of quartz-mica greisen and mica greisen yielding tin values to 0.07% metallic tin were intersected.

Between 223'6" and 305', fine to medium grained granites were once again encountered with a section (291' to 304'8") of soft, green talc-like material possibly representing the remnants of a basic dyke, now in a highly decomposed state. The granites adjacent to this section were extensively greisenised and decomposed. Minor tin values were recorded, rarely exceeding 0.1% (Zn) with a high of

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0.19% Sn. Chalcopyrite was often loosely disseminated through the various matrixes. Values ranged to 0.11% Cu and 0.12% <sup>S</sup>Zn.

Granites, medium to coarse grained and similar to those encountered over the upper 58' and between 101' and 223'6", were intersected below 305' with little evidence of alteration or mineralization. The hole was terminated at the planned 400'.

Bald Hill D.D.H.2

Co-ordinates of Collar: 430ft from 00+00 datum (Grid C) on bearing 080°. Bearing: 022° Depression: 45°.

(See geologic map in back-cover pocket for location).

It was planned that this hole would test grades associated with the greisens and greisenised granites which form a prominent ridge in the eastern part of the project area.

The hole was collared in quartz-greisens which extended to a depth of 35', where it changed to a greisenised, fine to medium grained granite which continued to 61' and included a 9' section of talc-like material, similar in all aspects, to that encountered in D.D.H. 1. Between 61' and 72' greisens were once again prominent changing again to greisenised granites below 72'.

A 28' section of greisens was encountered between 88' and 116' below which granites become progressively coarser

grained and less altered. The hole was terminated at 251 feet.

Values between 0.02% and 0.27% Sn were recorded in greisens and greisenised granites to a depth of 135 feet with associated copper values to 0.13% Cu. The highest values of tin were recorded over a section between 20' and 26' which gave an average assay of 0.265% Sn.

Bald Hill D.D.H. 3

Co-ordinates of Collar: 285' from 00+00 datum (Grid B)  
on bearing 165°. Bearing: 022° Depression: 45°

(See geologic map back-cover pocket for location)

This third hole was designed to test the central section of the prospect beneath trenches which had indicated grades of 0.7% Sn during early sampling of the surface greisens.

It was also considered that a third hole would provide the necessary information, combined with the results from the drilling of D.D.H. 1 and 2, to make an accurate assessment of the potential of the Rattler Hill Prospect regarding further expenditure.

Between 0' and 95' the core recovery was virtually nil due to the soft, decomposed, coarse grained granites being reduced to a coarse, micaceous sand during drilling. Poor recovery continued in similar type of rock to 178 feet.

The section between 190' and 248' appeared to represent the lode channel outlined in D.D.H. 1 and 2 but with the degree of alteration markedly less than in the previous holes. Mineralization was found in trace amounts only with values to 210 ppm Cu and 0.40% Sn being recorded.

Below 248' alteration products were even less obvious although chalcopyrite was generally more conspicuous, loosely disseminated through the granite matrix or associated with quartz-greisen veins. A single 2'4" section at 278'10" yielded values of 0.64% Cu, 490 ppm Zn, 1.9 ozs Ag and 0.07% Sn.

The hole was terminated at 342'10".

#### CONCLUSIONS

No intersections of economic significance were encountered during this drilling programme.

The section in D.D.H. 3 at 278'10" is marginally economic in grade but when the width of the section is considered only 2 feet 4 inches it does not stand as one of economic importance.

In general the formations continued to depth and remained moderately consistent in width. However, the

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grades apparent from the surface workings were not duplicated at depth.

It is probable the greisens mark the course of a mineralizing channel which fed a mineralized zone long since removed by weathering. The contact between the granites and the overlying Silurian metasediments lies some 2000 feet to the south, suggesting the area is likely to show evidence of pneumatolytic and hydrothermal activity in the form of fissure fillings which will show a decrease in grade both vertically and laterally as the contact becomes further removed. This is probably the case on Rattler Hill with poorer grades encountered with depth.

The results obtained to date are comprehensive enough to indicate that further expenditure on the hard rock prospects of Rattler Hill is unwarranted.

Further work on Bald Hill should be directed towards an evaluation of the eluvial/alluvial prospects and other hard rock possibilities such as the greisens of the Grid G area, the vein complex on Grid D and the contact zones about the Star of Peace Mine which are all nearer the granite contact and as such are more likely to carry economic grades.

*J. D. Juilland*  
J.D. JUILLAND  
Projects Manager.

I.R. MORTIMORE  
Resident Geologist.

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APPENDIX 1

(a) Geology of Rattler Hill, Bald Hill.

by A.C. Johnston  
Junior Geologist

APPENDIX 1Geology of the Rattler Hill Grid, Bald Hill.

Mapped in detail on scale 2" = 100' by pace, tape and compass.

Previous work carried out on area.

- (a) Extensive sluicing operations on and near grid area carried out in 1920's and possibly earlier.
- (b) Three trenches cutting obliquely across the lode.
- (c) Trio shafts - Rattler workings.
- (d) One shaft.

The dump material from the trenches indicate that they were dug on quartz mica greisen carrying quartz stringers, both carrying the cassiterite and both contained within the main quartz greisen lode.

Dump material from the shaft consisted of decomposed fine grained granite and quartz mica greisen material with minor amounts of chalcopryrite, malachite, tourmaline, and cassiterite. The cassiterite was associated with the quartz mica greisen which gave good assay results for Sn. This shaft is situated at the west end of the lode.

The adit, located at the eastern end of the lode

was driven 53 feet perpendicularly into the lode, commencing in greisenized granite and ending in the same. In the adit the lode appeared to be dipping at approximately 70' S and was approximately 24 feet wide (apparent width). White gänge and rounded greisen pebbles line the southern contact and are indicative of post mineralization movement.

GEOLOGY

Basically there are three main rock types of importance.

- (1) Coarse grained slightly decomposed biotite granite.
- (2) Medium to fine grained biotite granite or aplitic material.
- (3) Quartz greisen lode at which the drilling programme was aimed. On either side of the lode the quartz greisen grades gradually into greisenized granite indicating a replacement origin.

Both the coarse grained biotite granite and the aplite are greisenized to varying degrees. Towards the west end of the lode the quartz greisen was closely associated with the fine grained granite and at times appeared to grade into the same.

A fourth rock type of lesser importance consisted

of highly decomposed basic dykes. One such type is exposed at the entrance of the above mentioned adit. The dyke material doesn't appear to be mineralized in any way.

MODE OF OCCURRENCE OF TIN MINERALIZATION

(1) ALLUVIAL. This is an area not previously worked in the vicinity of the proposed D.D.H. 1 and D.D.H. 3. Although a comparatively small area, the sluicing of this deposit would provide the means for a quick and easy cash inflow. The cheapness and simplicity of a sluicing operation also lends support to the idea.

(2) IN HARD ROCK. Associated with the quartz-greisen. In this case the ore can further be sub-divided by the mode of occurrence of the cassiterite.

- (a) In the quartz-mica greisen loosely disseminated throughout.
- (b) Quartz "stringers" (1/8 - 1/4)" in width, in the quartz-mica greisen, carry coarsely crystalline cassiterite. The quartz-mica greisen and not so much the quartz greisen tend to give the good tin values. Some minute veinlets of tin also associated with the aplitic material.

Surface sampling of the quartz-mica greisen in the

vicinity of the Rattler shafts gave good tin values. Cassit-  
erite, in the modes already described, is easily found over  
the project area.

Diamond drill holes, Bald Hill D.D.H. 1, 2 and 3  
have been proposed to explore the lode at depth to establish  
it's grades and width.

A.C. JOHNSTON

Junior Geologist.

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APPENDIX 2

Geochemical Laboratory Reports

Bald Hill D.D.H. 1 - Lab Sheets 594/1 to 594/6

Bald Hill D.D.H. 2 - Lab Sheets 618/1 to 618/6

Bald Hill D.D.H. 3 - Lab Sheets 636/1 to 636/4

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# 811019 GEOCHEMICAL LABORATORY REPORT

001447-001450  
 FIELD SHEET No. 006451-006459 PROJECT No. EL.6/68 - BALD HILL (D.D.H.1)

LAB. SHEET No. 594/1 SAMPLE TYPE D.D.H. CORE DATE 23rd April, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm	Bi ppm
001447	39'6" - 46'6" 71-C-1461	20	20	10	60	100	2	BLD	BLD
	56'1" - 57'8" 71-C-1462	20	20	10	60	70	2	BLD	BLD
001448	223'6" - 231'0" 71-C-1463	120	15	20	40	150	2	BLD	BLD
	231'0" - 231'8" 71-C-1464	15	20	10	50	155	2	BLD	BLD
001449	57'8" - 60'6" 71-C-1465	20	20	20	50	80	1	BLD	BLD
	60'6" - 66'1" 71-C-1466	40	15	10	60	110	1	BLD	BLD
001450	231'8" - 241'0" 71-C-1467	185	15	20	60	190	2	BLD	BLD
	241'0" - 241'6" 71-C-1468	270	20	20	60	355	1	BLD	BLD
006451	66'1" - 66'6" 71-C-1469	40	20	20	50	140	1	BLD	BLD
	66'6" - 75'0" 71-C-1470	110	20	20	60	110	1	BLD	BLD
006452	241'6" - 251'0" 71-C-1471	260	20	20	70	270	3	BLD	BLD
	251'0" - 251'9" 71-C-1472	160	20	20	60	260	2	BLD	BLD
006453	75'0" - 76'6" 71-C-1473	30	15	20	50	115	1	BLD	BLD
	76'6" - 81'6" 71-C-1474	50	20	20	60	165	4	BLD	15
	81'6" - 83'3" 71-C-1475	40	20	10	50	200	2	BLD	10
006454	251'9" - 260'0" 71-C-1476	180	20	20	50	275	3	BLD	BLD
	260'0" - 261'3" 71-C-1477	170	20	20	50	360	2	BLD	BLD
	261'3" - 261'10" 71-C-1478	275	20	20	60	555	1	BLD	BLD
006455	83'3" - 86'6" 71-C-1479	35	20	10	60	180	2	BLD	20
	86'6" - 88'6" 71-C-1480	25	20	20	60	200	2	BLD	BLD
	88'6" - 92'6" 71-C-1481	20	15	10	50	120	1	BLD	BLD

**METHODS:**

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.

Cu, Ni, Co, Pb, Zn, Ag by G.R.C. No. 101  
 Mo, Bi by G.R.C. No. 102  
 B.L.D. = Below Limit of Detection



Chief Chemist

*Ray W. [Signature]*

# GEOCHEMICAL LABORATORY REPORT 811020

FIELD SHEET No. 006456-006463 PROJECT No. EL.6/68 - BALD HILL (D.D.H. 1)

LAB. SHEET No. 594/2 SAMPLE TYPE D.D.H. CORE DATE 23rd April, 1971

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm	Bi ppm
006456	261'10"- 269'3" 71-C-1482	160	15	20	60	320	1	BLD	BLD
	269'3"- 270' 71-C-1483	115	15	20	50	140	1	BLD	BLD
006457	270'0"- 278'0" 71-C-1484	300	20	20	70	320	3	BLD	BLD
	278'0"- 279'1" 71-C-1485	115	20	20	80	1220	1	BLD	BLD
006458	279'1"- 283'0" 71-C-1486	220	20	20	50	265	3	10	BLD
	283'0"- 287'3" 71-C-1487	275	25	20	60	290	3	BLD	BLD
	287'3"- 288'8" 71-C-1488	155	20	20	50	305	2	BLD	BLD
006459	288'8"- 291'0" 71-C-1489	300	20	20	60	265	2	BLD	10
	291'0"- 296'6" 71-C-1490	160	30	40	100	340	4	BLD	15
	296'6"- 298'4" 71-C-1491	120	30	40	100	355	5	BLD	15
006460	298'4"- 301'0" 71-C-1492	60	30	30	100	310	5	BLD	15
	301'0"- 305'0" 71-C-1493	1075	40	50	130	800	12	15	65
	305'0"- 307'7" 71-C-1494	200	15	20	50	140	3	BLD	BLD
006461	307'7"- 311'0" 71-C-1495	225	20	10	50	230	3	BLD	10
	311'0"- 313'9" 71-C-1496	210	20	10	60	285	2	BLD	BLD
	313'9"- 316'0" 71-C-1497	125	20	20	50	185	1	BLD	BLD
	316'0"- 316'6" 71-C-1498	10	25	20	50	210	1	BLD	BLD
006462	92'6"- 93'0" 71-C-1499	35	15	20	60	110	1	BLD	BLD
	93'0"- 96'6" 71-C-1500	20	20	10	50	95	1	BLD	BLD
	103'6"- 107'11" 71-C-1501	50	20	20	60	110	1	BLD	BLD
006463	123'0"- 125'1" 71-C-1502	20	15	20	60	95	1	BLD	BLD
	131'0"- 134'2" 71-C-1503	20	20	20	70	100	10	BLD	BLD
	137'0"- 139'2" 71-C-1504	10	20	10	60	110	1	BLD	10
	162'6"- 163'5" 71-C-1505	BLD	20	20	70	145	1	BLD	BLD

**METHODS:**



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.

Chief Chemist

*Ray W. Gentry*

# GEOCHEMICAL LABORATORY REPORT 811021

FIELD SHEET No. 006464/65 PROJECT No. EL. 6/68 - BALD HILL (D.D.H. 1)

LAB. SHEET No. 594/3 SAMPLE TYPE D.D.H. CORE DATE 23rd April, 1971.

006464

006465

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm	Bi ppm
163'5"- 166'3"	71-C-1506	10	20	20	60	140	1	BLD	BLD
189'8"- 192'3"	71-C-1507	145	20	20	70	145	2	BLD	BLD
203'6"- 206'2"	71-C-1508	10	20	20	60	140	1	BLD	BLD
324'4"- 326'1"	71-C-1509	10	20	10	60	150	1	BLD	BLD
348'6"- 350'5"	71-C-1510	10	15	20	60	115	1	BLD	15
367'6"- 370'0"	71-C-1511	10	15	20	50	110	1	BLD	15
386'0"- 388'0"	71-C-1512	10	15	20	50	120	1	BLD	BLD
394'0"- 394'8"	71-C-1513	BLD	15	20	50	110	1	BLD	BLD

**METHODS:**



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

Chief Chemist

*Ray W. Zerkow*

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# GEOCHEMICAL LABORATORY REPORT 811022

001447-001450  
 FIELD SHEET No. 006451-006455 PROJECT No. EL.6/68 - BALD HILL (D.D.H. 1)  
 LAB. SHEET No. 594/4 SAMPLE TYPE: D.D.H. CORE DATE: 23rd April, 1971.

001447

SAMPLE No.	LAB. No.	W %	Sn %	F %					
39'6" - 46'6"	71-C-1461	BLD	0.25	0.3					
56'1" - 57'8"	71-C-1462	BLD	0.01	BLD					
223'6" - 231'0"	71-C-1463	BLD	BLD	0.3					
231'0" - 231'8"	71-C-1464	BLD	BLD	0.6					
57'8" - 60'6"	71-C-1465	BLD	BLD	0.5					
60'6" - 66'1"	71-C-1466	BLD	BLD	0.5					
231'8" - 241'0"	71-C-1467	BLD	BLD	0.4					
241'0" - 241'6"	71-C-1468	BLD	BLD	0.3					
66'1" - 66'6"	71-C-1469	BLD	0.01	0.6					
66'6" - 75'0"	71-C-1470	BLD	0.02	0.5					
241'6" - 251'0"	71-C-1471	BLD	0.01	0.5					
251'0" - 251'9"	71-C-1472	BLD	0.025	0.4					
75'0" - 76'6"	71-C-1473	BLD	0.04	0.6					
76'6" - 81'6"	71-C-1474	BLD	0.065	0.6					
81'6" - 83'3"	71-C-1475	BLD	0.045	0.4					
251'9" - 260'0"	71-C-1476	BLD	0.04	0.5					
260'0" - 261'3"	71-C-1477	BLD	0.025	0.4					
261'3" - 261'10"	71-C-1478	BLD	0.055	0.4					
83'3" - 86'6"	71-C-1479	BLD	0.015	0.4					
86'6" - 88'6"	71-C-1480	BLD	BLD	0.2					
88'6" - 92'6"	71-C-1481	BLD	0.01	0.5					

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006451

006452

006453

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006455

**METHODS:**

This laboratory is registered with the W by G.R.C. No. 104  
 National Association of Chemists and Metallurgists Sn by G.R.C. No. 105  
 Authorities, Australia. The results reported herein have been  
 formed in accordance with the terms of registration.  
 B.L.D. = Below Limit of Detection



Chief Chemist

*Ray W. [Signature]*

# GEOCHEMICAL LABORATORY REPORT 811023

FIELD SHEET NO. 006456-99646 PROJECT No. EL.6/68 - BALD HILL (D.D.H. 1)

LAB. SHEET No. 594/5 SAMPLE TYPE D.D.H. CORE DATE 23rd April, 1971.

SAMPLE No.	LAB. No.	W %	Sn %	F %				
006456	261'10"-269'3"	71-C-1482	BLD	0.01	0.6			
	269'3"-270'0"	71-C-1483	BLD	0.015	0.7			
006457	270'0"-278'0"	71-C-1484	BLD	0.045	0.6			
	278'0"-279'1"	71-C-1485	BLD	0.025	0.9			
006458	279'1"-283'0"	71-C-1486	BLD	0.02	0.6			
	283'0"-287'3"	71-C-1487	BLD	BLD	0.7			
	287'3"-288'8"	71-C-1488	BLD	0.185	0.9			
006459	288'8"-291'0"	71-C-1489	BLD	0.035	1.4			
	291'0"-296'6"	71-C-1490	BLD	0.055	3.3			
	296'6"-298'4"	71-C-1491	BLD	BLD	3.7			
006460	298'4"-301'0"	71-C-1492	BLD	BLD	4.2			
	301'0"-305'0"	71-C-1493	BLD	0.095	0.9			
	305'0"-307'7"	71-C-1494	BLD	0.055	3.5			
006461	307'7"-311'0"	71-C-1495	BLD	0.045	0.7			
	311'0"-313'9"	71-C-1496	BLD	0.14	0.4			
	313'9"-316'0"	71-C-1497	BLD	0.025	0.5			
	316'0"-316'6"	71-C-1498	BLD	BLD	0.5			
006462	92'6"-93'0"	71-C-1499	BLD	BLD	0.6			
	93'0"-96'6"	71-C-1500	BLD	BLD	0.5			
	103'6"-107'11"	71-C-1501	BLD	0.04	0.5			
006463	123'0"-125'1"	71-C-1502	BLD	0.015	0.7			
	131'0"-134'2"	71-C-1503	BLD	0.12	0.6			
	137'0"-139'2"	71-C-1504	BLD	BLD	0.6			
	162'6"-163'5"	71-C-1505	BLD	BLD	0.5			

**METHODS:**



This laboratory is registered with the National Association of Testing Authorities, Australia. The results reported herein have been formed in accordance with the terms of registration.

Chief Chemist

*Ray W. [Signature]*

# GEOCHEMICAL LABORATORY REPORT 811024

FIELD SHEET No. 006464/5 PROJECT No. EL.6/68 - BALD HILL (D.D.H. 1)

LAB. SHEET No. 594/6 SAMPLE TYPE: D.D.H. CORE DATE: 23rd April, 1971

006464

006465

SAMPLE No.	LAB. No.	W %	Sn %	F %					
163'5" - 166'3"	71-C-1506	BLD	BLD	0.5					
189'8" - 192'3"	71-C-1507	BLD	BLD	0.5					
203'6" - 206'2"	71-C-1508	BLD	0.12	0.5					
324'4" - 326'1"	71-C-1509	BLD	BLD	0.6					
348'6" - 350'5"	71-C-1510	BLD	BLD	0.6					
367'6" - 370'0"	71-C-1511	BLD	BLD	0.7					
386'0" - 388'0"	71-C-1512	BLD	BLD	0.4					
394'0" - 394'8"	71-C-1513	BLD	BLD	0.5					

**METHODS:**



This laboratory is registered as a  
National Association of  
Authorities, Australia. The  
reported herein have been  
formed in accordance with  
terms of registration.

Chief Chemist

*Ray W. M. [Signature]*

# GEOCHEMICAL LABORATORY REPORT 811025

FIELD SHEET No. 006472-78 PROJECT No. EL.6/68 - BALD HILL B.M.-2

LAB. SHEET No. 618/1 SAMPLE TYPE: CORE DATE: 10th May, 1971

006472

006473

006474

006475

006476

006477

006478

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm	Bi ppm
86'6"-88'0"	71-D-377	35	15	15	30	90	3	BLD	BLD
88'0"-89'6"	71-D-378	50	10	BLD	30	130	4	BLD	15
89'6"-91'6"	71-D-379	35	15	BLD	30	100	6	BLD	50
91'6"-96'0"	71-D-380	20	15	BLD	30	85	3	BLD	20
96'0"-97'0"	71-D-381	25	15	BLD	25	75	3	BLD	15
97'0"-98'6"	71-D-382	20	10	BLD	25	70	4	BLD	30
98'6"-100'0"	71-D-383	40	10	BLD	20	75	2	BLD	35
100'0"-102'0"	71-D-384	300	15	10	40	95	3	30	25
102'0"-108'0"	71-D-385	470	15	BLD	15	135	8	BLD	25
108'0"-109'7"	71-D-386	950	15	BLD	15	180	2	BLD	10
109'7"-116'0"	71-D-387	305	15	10	30	135	BLD	BLD	BLD
116'0"-118'9"	71-D-388	130	15	5	30	70	BLD	BLD	BLD
118'9"-121'3"	71-D-389	55	15	BLD	30	75	2	BLD	BLD
121'3"-123'0"	71-D-390	60	10	5	30	90	8	25	135
123'0"-127'0"	71-D-391	50	15	10	30	45	1	BLD	BLD
127'0"-129'0"	71-D-392	45	15	10	30	50	BLD	BLD	BLD
129'0"-129'6"	71-D-393	40	15	20	55	70	20	BLD	BLD
129'6"-135'0"	71-D-394	50	15	5	45	85	18	BLD	55
135'0"-136'10"	71-D-395	45	15	BLD	55	55	BLD	BLD	BLD
136'10"-141'5"	71-D-396	70	15	BLD	40	65	4	BLD	BLD
141'5"-145'10"	71-D-397	125	15	10	60	70	3	BLD	BLD
145'10"-147'0"	71-D-398	50	15	10	50	60	BLD	BLD	BLD
147'0"-150'0"	71-D-399	260	15	10	50	145	BLD	BLD	BLD
228'9"-231'4"	71-D-400	50	15	10	65	110	BLD	BLD	BLD
241'9"-244'0"	71-D-401	20	15	10	40	85	BLD	BLD	BLD

**METHODS:**

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.

Cu, Ni, Co, Pb, Zn, Ag by G.R.C. No. 101  
 Mo, Bi by G.R.C. No. 102  
 W by G.R.C. No. 102  
 Sn by G.R.C. No. 105

B.L.D. = Below Limit of Detection

Chief Chemist




# GEOCHEMICAL LABORATORY REPORT 811026

FIELD SHEET No. 006472-78 PROJECT No. EL.6/68 - BALD HILL (D.D.H.2)

LAB. SHEET No. 618/2 SAMPLE TYPE: D.D.H. CORE DATE: 10th May, 1971.

SAMPLE No.	LAB. No.	W %	Sn %						
86'6"- 88'0"	71-D-377	BLD	BLD						
88'0"- 89'6"	71-D-378	BLD	0.01						
89'6"- 91'6"	71-D-379	BLD	0.07						
91'6"- 96'0"	71-D-380	BLD	BLD						
96'0"- 97'0"	71-D-381	BLD	0.01						
97'0"- 98'6"	71-D-382	BLD	BLD						
98'6"-100'0"	71-D-383	BLD	0.04						
100'0"-102'0"	71-D-384	BLD	0.07						
102'0"-108'0"	71-D-385	BLD	0.03						
108'0"-109'7"	71-D-386	BLD	0.03						
109'7"-116'0"	71-D-387	BLD	0.02						
116'0"-118'9"	71-D-388	BLD	BLD						
118'9"-121'3"	71-D-389	BLD	0.01						
121'3"-123'0"	71-D-390	BLD	0.02						
123'0"-127'0"	71-D-391	BLD	BLD						
127'0"-129'0"	71-D-392	BLD	BLD						
129'0"-129'6"	71-D-393	BLD	BLD						
129'6"-135'0"	71-D-394	BLD	0.07						
135'0"-136'10"	71-D-395	BLD	BLD						
136'10"-141'5"	71-D-396	BLD	0.01						
141'5"-145'10"	71-D-397	BLD	0.03						
145'10"-147'0"	71-D-398	BLD	BLD						
147'0"-150'0"	71-D-399	BLD	BLD						
228'9"-231'4"	71-D-400	BLD	BLD						
241'9"-244'0"	71-D-401	BLD	BLD						

006472

006473

006474

006475

006476

006477

006478

**METHODS:**



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.

Chief Chemist

*Ray W. Perle*

# GEOCHEMICAL LABORATORY REPORT 811027

D.D.H. No. 2

FIELD SHEET No. 006466/71 PROJECT No.: EL.6/68 - BALD HILL

LAB. SHEET No. 618/3 SAMPLE TYPE: CORE DATE: 10th May, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm	Bi ppm
7'6"- 12'6"	71-D-348	55	15	10	50	120	BLD	BLD	35
12'6"- 15'0"	71-D-349	35	10	5	35	50	BLD	BLD	25
15'0"- 16'6"	71-D-350	40	15	10	30	40	BLD	BLD	60
16'6"- 17'6"	71-D-351	60	10	10	35	40	BLD	BLD	30
17'6"- 19'0"	71-D-352	30	15	10	35	70	BLD	BLD	20
19'0"- 20'0"	71-D-353	30	5	20	20	100	BLD	BLD	15
20'0"- 25'0"	71-D-354	30	15	10	30	90	BLD	BLD	30
25'0"- 26'0"	71-D-355	50	15	10	35	130	BLD	BLD	15
26'0"- 27'0"	71-D-356	50	15	10	50	120	4	BLD	BLD
27'0"- 28'3"	71-D-357	30	15	10	75	120	BLD	BLD	BLD
28'3"- 29'0"	71-D-358	30	15	10	30	100	BLD	BLD	BLD
29'0"- 35'0"	71-D-359	45	15	10	30	120	3	BLD	BLD
35'0"- 39'0"	71-D-360	120	15	10	95	120	BLD	BLD	BLD
39'0"- 49'0"	71-D-361	35	15	10	35	120	BLD	BLD	BLD
49'0"- 50'3"	71-D-362	40	15	10	40	115	BLD	BLD	BLD
50'3"- 56'3"	71-D-363	130	30	10	40	540	BLD	BLD	BLD
56'3"- 58'3"	71-D-364	70	20	10	25	310	BLD	BLD	BLD
58'3"- 59'3"	71-D-365	35	15	10	115	120	BLD	BLD	BLD
59'3"- 61'3"	71-D-366	35	15	10	70	110	BLD	BLD	BLD
61'3"- 63'0"	71-D-367	1290	15	10	90	1300	12	BLD	10
63'0"- 63'9"	71-D-368	80	15	10	90	135	8	BLD	BLD
63'9"- 64'6"	71-D-369	55	15	10	85	130	6	BLD	15
64'6"- 70'0"	71-D-370	55	10	5	115	125	2	BLD	BLD
70'0"- 72'0"	71-D-371	50	15	BLD	100	110	3	BLD	BLD
72'0"- 76'4"	71-D-372	35	10	BLD	90	90	1	BLD	BLD

006466

006467

006468

006469

006470

**METHODS:**



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.

Chief Chemist

*Ray W. [Signature]*

# GEOCHEMICAL LABORATORY REPORT 811028

D.D.H. No. 2

FIELD SHEET No. 006471 PROJECT No. EL.6/68 - BALD HILL

LAB. SHEET No. 618/4 SAMPLE TYPE. CORE DATE. 10th May, 1971.

025

006471

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm	Bi ppm
76'4"- 77'0"	71-D-373	20	15	10	105	75	BLD	BLD	10
77'0"- 80'10"	71-D-374	30	15	10	170	70	1	BLD	BLD
80'10"-83'0"	71-D-375	50	15	5	135	95	BLD	BLD	BLD
83'0"- 86'6"	71-D-376	30	15	5	195	90	BLD	BLD	BLD

**METHODS:**



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.

Chief Chemist

*Ray W. Zedler*

026

## GEOCHEMICAL LABORATORY REPORT 811029

FIELD SHEET No.: 006466-71 PROJECT No.: EL.6/68 - BALD HILL (D.D.H. 2)

LAB. SHEET No.: 618/5 SAMPLE TYPE: D.D.H. CORE DATE: 10th May, 1971.

SAMPLE No.	LAB. No.	W %	Sn %						
7'6" - 12'6"	71-D-348	BLD	0.12						
12'6" - 15'0"	71-D-349	0.05	0.05						
15'0" - 16'6"	71-D-350	BLD	0.02						
16'6" - 17'6"	71-D-351	BLD	BLD						
17'6" - 19'0"	71-D-352	BLD	0.02						
19'0" - 20'0"	71-D-353	BLD	0.03						
20'0" - 25'0"	71-D-354	BLD	0.27						
25'0" - 26'0"	71-D-355	BLD	0.24						
26'0" - 27'0"	71-D-356	BLD	0.04						
27'0" - 28'3"	71-D-357	BLD	0.02						
28'3" - 29'0"	71-D-358	BLD	0.01						
29'0" - 35'0"	71-D-359	BLD	0.05						
35'0" - 39'0"	71-D-360	BLD	0.15						
39'0" - 49'0"	71-D-361	BLD	BLD						
49'0" - 50'3"	71-D-362	BLD	0.14						
50'3" - 56'3"	71-D-363	BLD	0.07						
56'3" - 58'3"	71-D-364	BLD	BLD						
58'3" - 59'3"	71-D-365	BLD	BLD						
59'3" - 61'3"	71-D-366	BLD	0.01						
61'3" - 63'0"	71-D-367	BLD	BLD						
63'0" - 63'9"	71-D-368	BLD	BLD						
63'9" - 64'6"	71-D-369	BLD	0.02						
64'6" - 70'0"	71-D-370	BLD	0.02						
70'0" - 72'0"	71-D-371	BLD	BLD						
72'0" - 76'4"	71-D-372	BLD	BLD						

006466

006467

006468

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006470

## METHODS:



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.

Chief Chemist

A handwritten signature in cursive script, appearing to read 'Ray W. M. Jones', enclosed within a circular scribble.

# GEOCHEMICAL LABORATORY REPORT 811030

FIELD SHEET No. 006471 PROJECT No. EL.6/68 - BALD HILL (D.D.H. 2)

LAB. SHEET No. 618/6 SAMPLE TYPE: CORE DATE: 10th May, 1971.

027

006471

SAMPLE No.	LAB. No.	W %	Sn %						
76'4" - 77'0"	71-D-373	BLD	BLD						
77'0" - 80'10"	71-D-374	BLD	0.02						
80'10" - 83'0"	71-D-375	BLD	BLD						
83'0" - 86'6"	71-D-376	BLD	BLD						

**METHODS:**



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.

Chief Chemist

*Ray W. [Signature]*

# GEOCHEMICAL LABORATORY REPORT 811031

FIELD SHEET No. 006479-88 PROJECT No. EL. 6/68 - BALD HILL GRID B/D.D.H. 3

LAB. SHEET No. 636/1 SAMPLE TYPE: D.D.H. CORE DATE: 25th May, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm	Bi ppm	W %	Sn %
006479	168'10"-178'10" 71-E-156	145	BLD	290	4	BLD	BLD	BLD	BLD
	188'10"-193'2" 71-E-157	105	BLD	260	2	BLD	BLD	BLD	BLD
006480	193'2"-198'10" 71-E-158	50	BLD	220	2	BLD	BLD	BLD	BLD
	198'10"-202'11" 71-E-159	35	BLD	160	BLD	BLD	15	BLD	BLD
006481	202'11"-208'10" 71-E-160	30	BLD	160	BLD	BLD	BLD	BLD	0.04
	208'10"-212'3" 71-E-161	25	BLD	140	BLD	BLD	20	BLD	0.01
006482	212'3"-216'0" 71-E-162	25	BLD	155	2	BLD	80	BLD	BLD
	216'0"-218'10" 71-E-163	20	BLD	150	2	BLD	BLD	BLD	BLD
	218'10"-221'9" 71-E-164	25	BLD	195	2	BLD	60	BLD	BLD
006483	221'9"-224'0" 71-E-165	25	BLD	210	2	BLD	25	BLD	0.01
	224'0"-226'1" 71-E-166	20	BLD	195	24	BLD	35	BLD	BLD
	226'1"-228'10" 71-E-167	20	BLD	180	BLD	BLD	30	BLD	BLD
	228'10"-231'1" 71-E-168	20	BLD	160	2	BLD	BLD	BLD	BLD
006484	231'1"-235'3" 71-E-169	160	BLD	360	2	BLD	BLD	BLD	BLD
	235'3"-238'10" 71-E-170	120	BLD	350	2	10	BLD	BLD	BLD
	238'10"-240'6" 71-E-171	210	BLD	380	4	25	10	BLD	BLD
006485	240'6"-243'5" 71-E-172	105	BLD	320	2	BLD	BLD	BLD	BLD
	243'5"-248'10" 71-E-173	115	BLD	320	2	BLD	10	BLD	BLD
	254'0"-255'0" 71-E-174	90	BLD	310	4	BLD	BLD	BLD	BLD
006486	255'0"-258'10" 71-E-175	55	BLD	280	4	BLD	BLD	BLD	BLD
	258'10"-264'5" 71-E-176	75	10	240	4	BLD	10	BLD	0.04
006487	264'5"-268'10" 71-E-177	90	BLD	185	2	BLD	BLD	BLD	0.04
	268'10"-271'6" 71-E-178	55	BLD	230	2	BLD	BLD	BLD	BLD

**METHODS:**

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.

Cu, Pb, Zn, Ag by G.R.C. No. 101  
 Mo, Bi by G.R.C. No. 102  
 W by G.R.C. No. 104  
 Sn by G.R.C. No. 105  
 Cd by G.R.C. No. 107  
 Sb by G.R.C. No. 108



*D. Langford*

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



# GEOCHEMICAL LABORATORY REPORT 811033

FIELD SHEET No.: 006479-88 PROJECT No.: EL.6/68 - BALD HILL GRID B / D.D.H. 3

LAB. SHEET No.: 636/3 SAMPLE TYPE: D.D.H. CORE DATE: 25th May, 1971.

SAMPLE No.	LAB. No.	Cd ppm	Sb %						
006479	168'10"-178'10"	71-E-156	BLD	BLD					
	188'10"-193'2"	71-E-157	BLD	BLD					
006480	193'2"-198'10"	71-E-158	BLD	BLD					
	198'10"-202'11"	71-E-159	BLD	BLD					
006481	202'11"-208'10"	71-E-160	BLD	BLD					
	208'10"-212'3"	71-E-161	BLD	BLD					
006482	212'3"-216'0"	71-E-162	BLD	BLD					
	216'0"-218'10"	71-E-163	BLD	BLD					
	218'10"-221'9"	71-E-164	BLD	BLD					
006483	221'9"-224'0"	71-E-165	BLD	BLD					
	224'0"-226'1"	71-E-166	BLD	BLD					
	226'1"-228'10"	71-E-167	BLD	BLD					
	228'10"-231'1"	71-E-168	BLD	BLD					
006484	231'1"-235'3"	71-E-169	15	BLD					
	235'3"-238'10"	71-E-170	20	BLD					
	238'10"-240'6"	71-E-171	10	BLD					
006485	240'6"-243'5"	71-E-172	10	BLD					
	243'5"-248'10"	71-E-173	10	BLD					
	254'0"-255'0"	71-E-174	BLD	BLD					
006486	255'0"-258'10"	71-E-175	BLD	BLD					
	258'10"-264'5"	71-E-176	BLD	BLD					
006487	264'5"-268'10"	71-E-177	BLD	BLD					
	268'10"-271'6"	71-E-178	BLD	BLD					

### METHODS:



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.

*D. Leung*  
for Chief Chemist

# GEOCHEMICAL LABORATORY REPORT 811034

FIELD SHEET No. 006479-88 PROJECT No. EL.6/68 - BALD HILL GRID B / D.D.H. 3

LAB. SHEET No. 636/4 SAMPLE TYPE: D.D.H. CORE DATE: 25th May, 1971.

006487

006488

SAMPLE No.	LAB. No.	Cd ppm	Sb %						
276'7"-278'10"	71-E-179	BLD	BLD						
278'10"-281'2"	71-E-180	10	BLD						
281'2"-285'10"	71-E-181	BLD	BLD						
291'9"-294'4"	71-E-182	BLD	BLD						

**METHODS:**



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.

*D. Langhoy*  
for Chief Chemist

030

# GEOCHEMICAL LABORATORY REPORT 811035

FIELD SHEET No. 006490 PROJECT No. EL.6/68 - BALD HILL DDH 3 - GRID B

LAB. SHEET No. 631/1 SAMPLE TYPE HEAVY MINERAL DATE: 20th May, 1971.  
CONCENTRATES From sludge

SAMPLE No.	LAB. No.	Sn %							
30'0"- 40'0"	71-D-1425	0.34							
40'0"- 45'0"	71-D-1426	0.12							
45'0"- 50'0"	71-D-1427	0.36							
50'0"- 55'0"	71-D-1428	0.10							
55'0"- 60'0"	71-D-1429	0.30							
60'0"- 65'0"	71-D-1430	0.12							
65'0"- 70'0"	71-D-1431	BLD							
70'0"- 75'0"	71-D-1432	0.12							
75'0"- 80'0"	71-D-1433	BLD							
80'0"- 85'0"	71-D-1434	0.10							
85'0"- 90'0"	71-D-1435	BLD							
90'0"- 95'0"	71-D-1436	BLD							
95'0"- 100'0"	71-D-1437	BLD							
100'0"- 105'0"	71-D-1438	0.30							
105'0"- 111'0"	71-D-1439	BLD							
111'0"- 116'0"	71-D-1440	BLD							
144'10"-148'10"	71-D-1441	0.56							
148'10"-158'10"	71-D-1442	2.20							
168'10"-178'10"	71-D-1443	BLD							
178'10"-188'10"	71-D-1444	0.43							

### METHODS:

 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.

Sn by G.R.C. No. 5

B.L.D. = Below Limit of Detection

Chief Chemist



035

71-817

811036

GEOPHOTO MINERALS REPORT 1971/31A

DIAMOND DRILLING RECORDS FOR BALD HILL  
D.D.H.1, D.D.H.2, D.D.H.3, RATTLER HILL  
PROSPECT, BALD HILL,  
E.L.6/68, N.E. TASMANIA

Prepared by

GEOPHOTO RESOURCES CONSULTANTS

for

TEXINS DEVELOPMENT PTY. LTD.

I.R. Mortimore

1974



037

A full discussion of the relevant data collected in the diamond drilling programme, as conducted on the Rattler Hill Prospect, is presented in Geophoto Minerals Report 1971/31.

Included within the covers of this report are the completed diamond drill logs and sections for each hole.

I.R. MORTIMORE.

038

811039

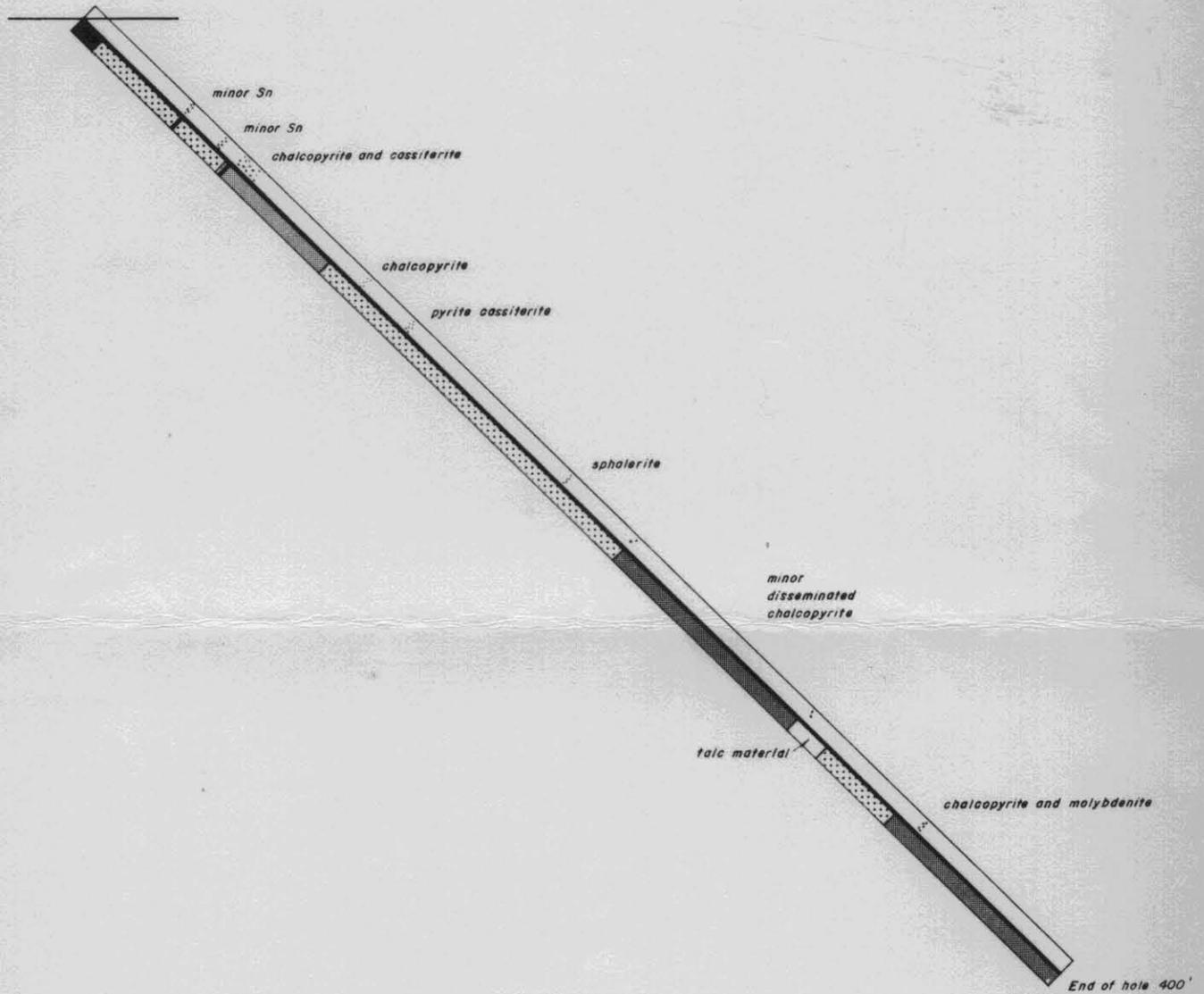
D.D.H. 1

Location : Bald Hill Grid B

Co-ord : 280' from base 00+00  
on bearing 231°

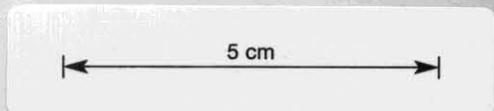
Bearing : 060°

Dip : 45°



-  Quartz, mica, greisen
-  Coarse grained granite (quartz and potash feldspar as primary constituents and biotite and plagioclase as accessory minerals.)
-  As above but fine grained.
-  As above but medium grained (tends to be greisenized)

Scale : 1:600





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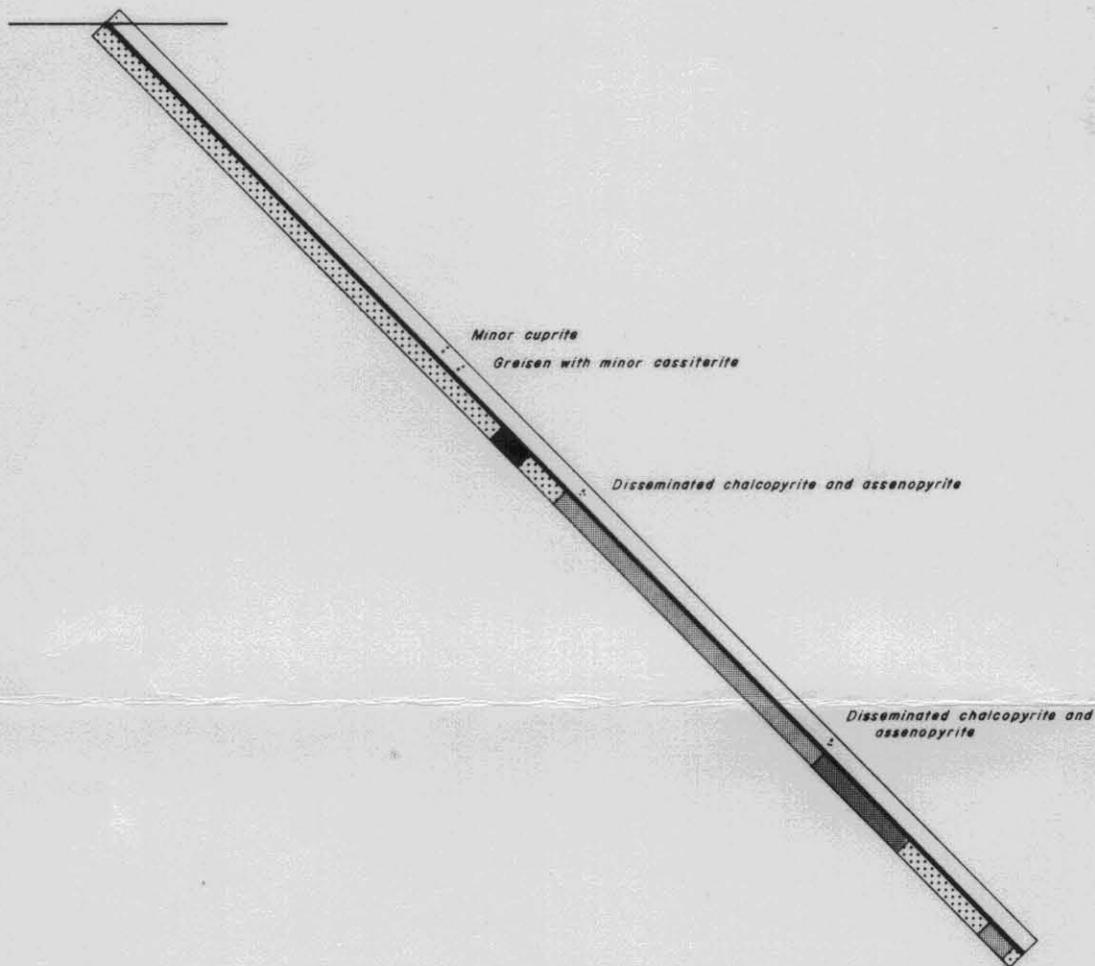
D.D.H. 3

Location: Bald Hill Grid B

Co-ords: 285' from base 00+00  
on bearing 165°

Bearing: 022°

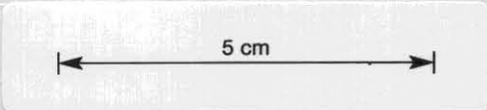
Dip: 45°



-  Quartz, greisen
-  Coarse grained granite
-  Fine grained granite
-  Medium grained granite

Note. Granites are greisenized to varying degrees

Scale: 1:600



041

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GEOPHOTO MINERALS REPORT 1971/51

DIAMOND DRILLING - GRID D, BALD HILL

E.L.6/68, N.E. TASMANIA

Prepared by

GEOPHOTO RESOURCES CONSULTANTS

for

TEXINS DEVELOPMENT PTY. LIMITED

I.R. Mortimore

1974

042

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INTRODUCTION

This report summarises relevant geological and geochemical data obtained in the drilling of Bald Hill D.D.H. 4, in March 1971.

This was the final hole of a four hole drilling programme conducted on prospects in the Bald Hill/Star of Peace area.

The initial three holes were drilled to test quartz-greisen and mica-greisen bodies on the Rattler Hill Prospects on the north side of the Bald Hill prospect area. Relevant details of that drilling programme are covered by Geophoto Minerals Reports 1971/31 and 1971/31A.

The introduction to Geophoto Minerals Report 1971/31 covers the regional aspects of the prospect area regarding location, geology and mining history and these will not be dealt with again in this report.

BALD HILL D.D.H. 4.

Co-ordinates of collar:	400' from base	Bearing: 040° (True)
	00+00 Grid D	Depression: 45°
	on bearing 275°	

The aim of this hole was to test the density and mineralised potential of two distinct systems of joint controlled, quartz greisen/quartz veins contained within a biotite granite of Devonian age, close to its contact with Silurian metasediments (within 400 feet).

These two systems were observed to obliquely cut one another, one set striking close to 170° dipping steeply to the

west, the other striking  $085^{\circ}$  dipping steeply to the south.

Surface observations showed the widths of individual veins to extend to approx. 36 inches, the density of veining to vary from locality to locality with spacings from a matter of inches to tens of feet.

Grab samples taken from these veins in reconnaissance work earlier had yielded values to 0.36%Sn, 1.6%Cu, 40%As, 110ppm Mo and 340ppm Bi, averaging 0.12%Sn, 0.86% Cu, 11.3%As, 86ppm Mo and 130ppm Bi.

The area had subsequently been gridded (Grid D) and soil sampled at 50 feet intervals (See drawing 1/125 - Geophoto Minerals Report 1970/24A).

Plots of analysis data from the soil sampling programme (Cu and Sn in particular) accentuated the N.W./N.N.W. trend of the vein system striking  $170^{\circ}$  at the expense of the second set of veins striking close to E-W. The assay results are tabulated in Geophoto Minerals Report 1970/24A.

With the drilling of the Rattler Hill Prospect close by, it was decided to sink an exploratory hole to test the vein systems on Grid D.

The hole was drilled to a depth of 400 feet on a bearing of  $040^{\circ}$  and depressed at  $45^{\circ}$ . Location of the collar was 400 feet from the 00 + 00 Base Point (Grid D) on a bearing of  $275^{\circ}$  from that point.

Throughout its length the hole encountered medium to coarse grained biotite-granite intermittently broken by veining of quartz-greisen.

The granite displayed evidence of decomposition to varying degrees with kaolinite and chlorite the chief alteration products. Limited intervals, particularly close to zones of veining, were greisenised and/or silicified.

The veining, particularly prominent between 141 ft. and 151 ft., 252 ft. and 274 ft., and, 373 ft. and 387 ft., comprises a quartz-greisen to a maximum vein width of 4 ft. 10 ins. (drill length).

Mineralisation is largely confined to the quartz-greisen as chalcopyrite, pyrite and arsenopyrite in a loosely disseminated form. Minor or trace amounts of chalcocite, molybdenite and cassiterite were also apparent.

Detailed descriptions of the core can be found in the appendix together with a section of the drill hole (drawing A-206).

Selected sections of core were split and sent for assay for Cu, Pb, Zn, Ag, Mo, Bi, W, Sn, Cd and Sb.

These were narrow sections (often 2 ft) of quartz-greisen which were more obviously mineralised.

Dependent on the results of the assays from this core, the remaining intervening core could be assayed if desired.

The assay results were generally disappointing with values to 0.56% Cu, 80ppm Pb, 1.1% Zn, 1.1 oz Ag, 110ppm Mo, 180ppm Bi, 0.57% Sn and 180ppm Cd. (See Laboratory Sheets 648/1-4 in the appendix).

The section 145' 7" to 150' 0" carried values of 0.45% Cu, 0.45% Sn, 0.23% Zn and 0.91 oz Ag. Although marginally economic from the mineral content viewpoint, width-wise the intersection does not rank as an occurrence of significance.

Other intersections assayed do not approach these values and no consistency exists in metal values through the hole.

It must be concluded that the mineralised potential of the vein systems within the immediate vicinity of this exploratory hole, has not been realised by the data obtained in the drilling of this hole and that a basis for further exploration on this prospect does not exist.

It is therefore recommended that no further expenditure be made on this prospect.

I.R. MORTIMORE.

APPENDIX III

SECTION FOR D.D.H. 4

Drg. No. A206

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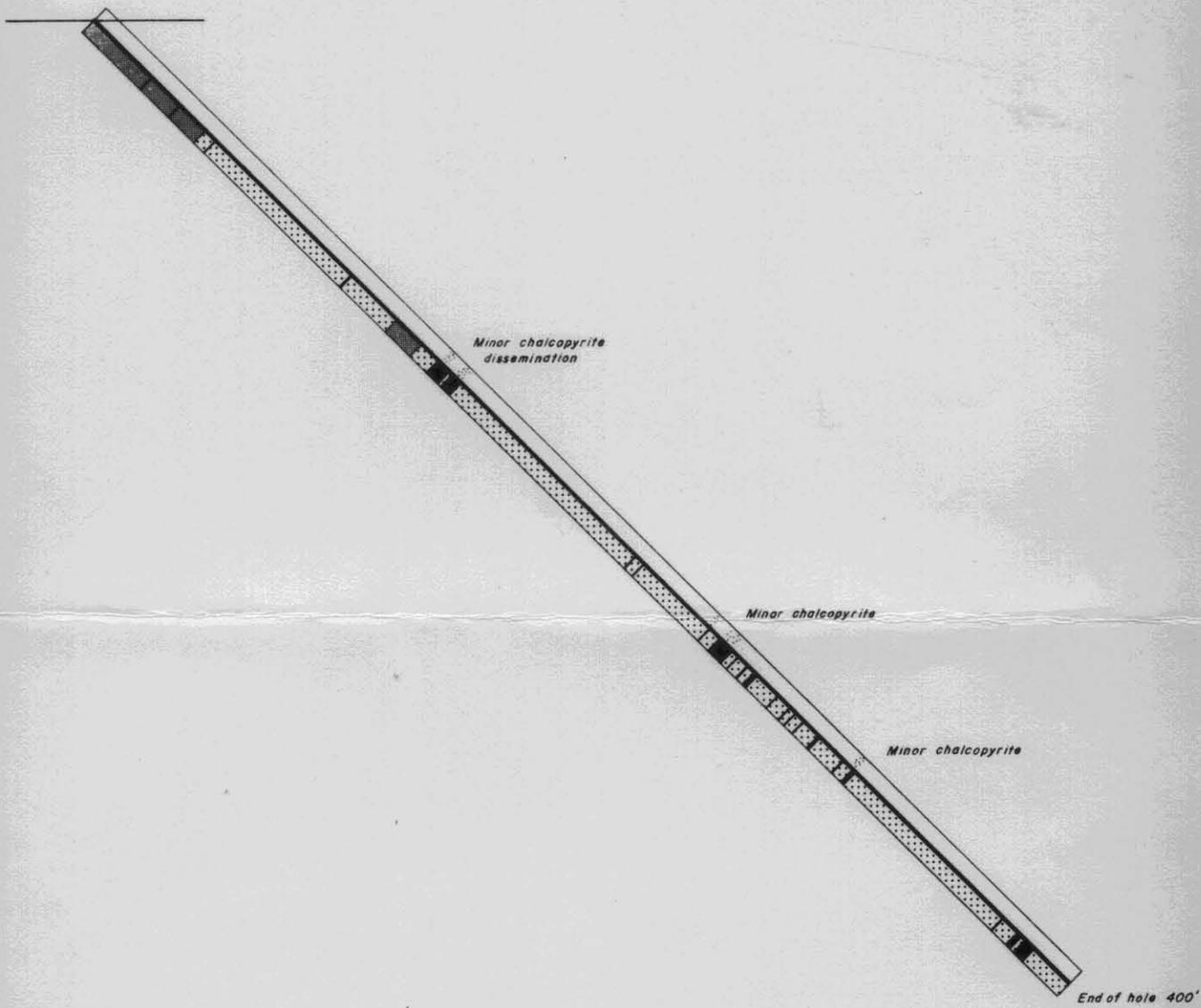
D.D.H. 4

Location: Bald Hill Grid D

Co-ords: 400' from base 00+00  
on bearing 275°

Bearing: 040°

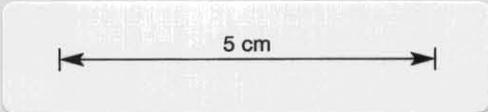
Dip: 45°

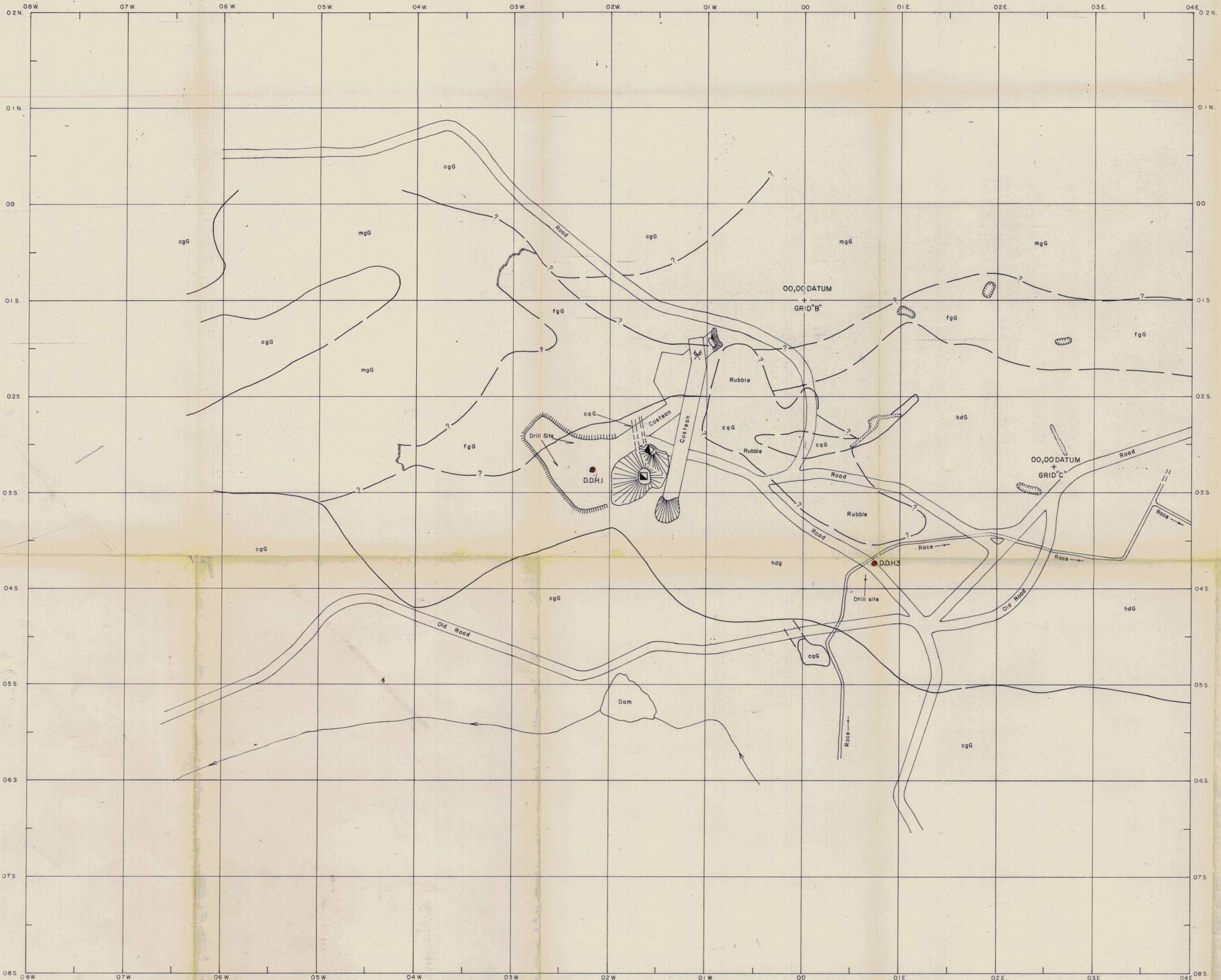


-  Quartz, greisen (prominent veins > 6" width.)
-  Coarse grained biotite granite
-  Medium grained biotite granite

Note: Granite is irregularly greisenized.

Scale: 1:600



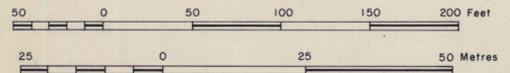


LEGEND

- cgG Coarse grained quartz-graisen.
- fgG Quartz-graisen fine grain size.
- mgG Granite (decomposed) medium grain size.
- cgG Granite (altered) coarse grain size.
- fgG Granite (altered) fine grain size (aplitic).
- gfG Granite, fine grained, gneissized.
- hdG Granite, coarse grained, highly decomposed.
- Gradational Contact.
- Contact, dashed where indefinite, questioned where inferred.
- Prospect Pit.
- Shaft.
- Adit, showing portal.
- Dump material.
- Vertical or steeply dipping joints.



Scale: 50 Feet to 1 Inch



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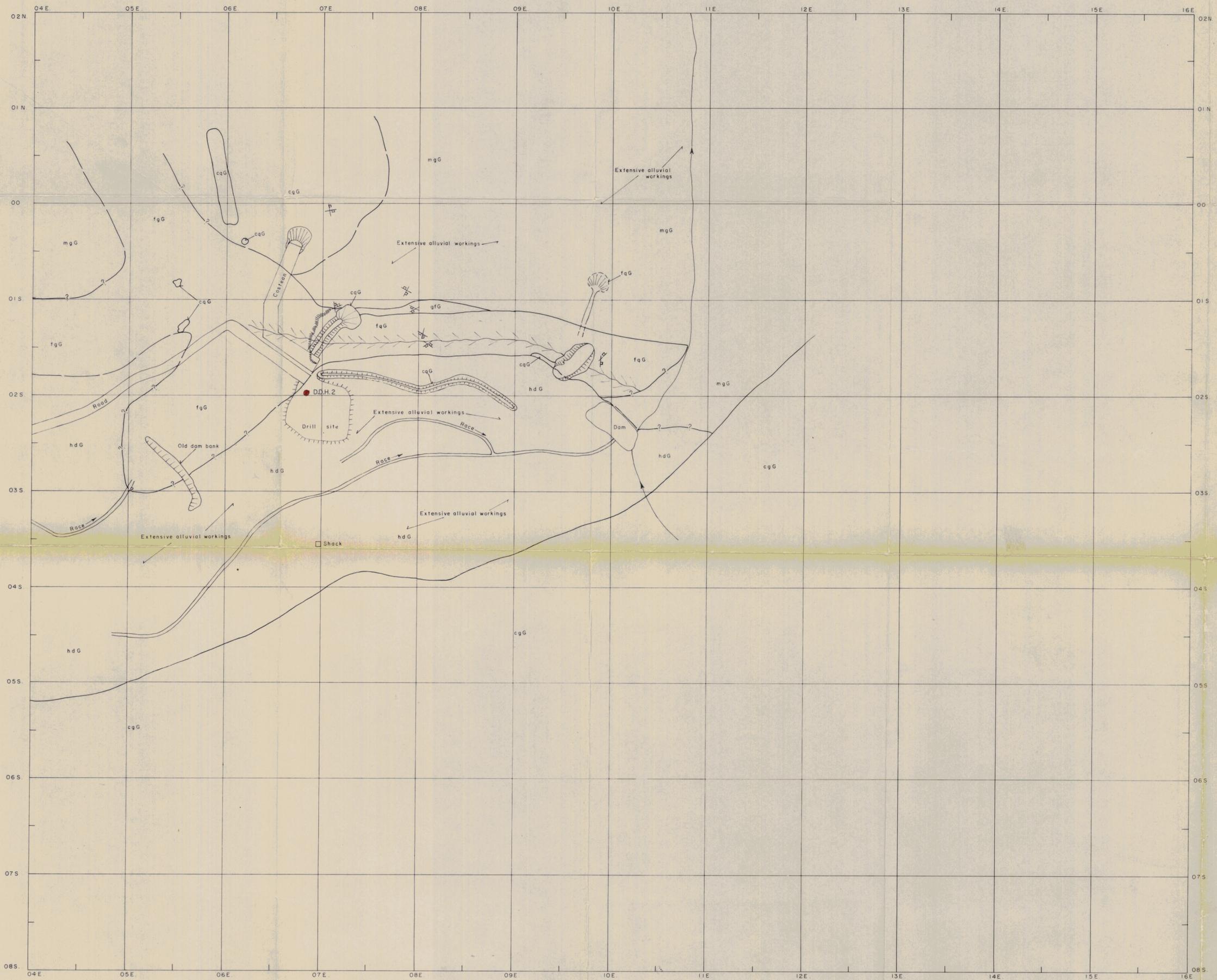
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E.L.6/68 NORTH EAST TASMANIA

**BALD HILL-RATTLER HILL GRID AREA**

**GEOLOGICAL MAP**  
1966

PROJECT 6/68 DATE 7.7.71 DWG. NO 1/146

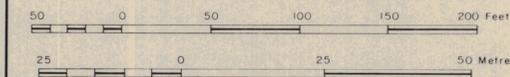


LEGEND

- cqG Coarse grained quartz - greisen.
- fgG Quartz - greisen fine grain size.
- mgG Granite (decomposed) medium grain size.
- cgG Granite (altered) coarse grain size.
- fgG Granite (altered) fine grain size (aplitic).
- gfG Granite fine grained, greisenized.
- hdG Granite, coarse grained, highly decomposed.
- Gradational contact.
- Contact, dashed where indefinite, questioned where inferred.
- Prospect pit.
- Shaft.
- Adit, showing portal.
- Dump material.
- Vertical or steeply dipping joints.



Scale 50 Feet to 1 Inch



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E.L. 6/68 NORTH EAST TASMANIA  
**BALD HILL-RATTLER HILL GRID AREA**  
**GEOLOGICAL MAP 1967**

PROJECT 6/68 DATE 7.7.71 DWG. NO. 1/146