GR ENGINEERING SERVICES
ENGINEERING CONSULTANTS AND CONTRACTORS

TNT MINES LIMITED

Aberfoyle Project

Project Reports Review

Reference: 12105 457084:T:dp

22-Jan-14

GR ENGINEERING SERVICES LIMITED ABN 12 121 542 738
Tel: +61 8 6272 6000 Fax: +61 8 6272 6001 Email: gres@gres.com.au Website: www.gres.com.au
PO Box 258, Belmont WA 6984 179 Great Eastern Highway, Belmont WA 6104

Document History and Status

Revision	Date issued	Reviewed by	Approved by	Date approved	Revision type
A	31-Jan-14	DP	PA	31-Jan-14	Issued to Client

Distribution of Copies

Revision	Issued to name	Issued to company
A	Tracey Lake	TNT Mines Limited

Document Information

Printed	5 February 2014
Last saved:	5 February 2014; 8:35 AM
File name:	457084_1
Report author:	Dominic Piscioneri / Peter Allen
Project manager:	Dominic Piscioneri
Client name:	TNT Mines Limited
Project name:	Aberfoyle Project
Document title:	Project Reports Review
Revision:	A
Project number:	12105

TABLE OF CONTENTS

1. EXECUTIVE SUMMARY

TNT Mines Limited (TNT) requested that GR Engineering Services (GRES) undertake a review of existing studies completed for the tin and tungsten prospects located on the east coast of Tasmania.

1.1 Exploration Targets and Recoveries

A summary of the exploration targets was provided by TNT and is included in Table 1.

Exploration Target	Approximate Tonnage	%Sn	Sn Recovery	%WO3
Coarse Jig	570,000	0.14	32.00	
Slimes	198,000	0.36	40.00	0.35
Great Pyramid	3,130,000	0.22	50.00	
Lutwyche Surface	500,000	0.59	72.00	0.25
Aberfoyle Open Pit	5,500,000	0.20	60.00	0.03
Lutwyche Underground	1,080,000	0.70	72.00	0.30
Kookabarra	600,000	0.59	72.00	0.25
Royal George	800,000	0.34	90.00	
Storey's Creek	70,400	0.05	60.00	0.59

Table 1 Concentrate Grade and Recovery Anticipated for Exploration Targets

There is very little information within the provided reports to support the recoveries stated in Table 1, however there are a significant number of historic reports (as noted in Appendix A), that need to be reviewed as part of the next phase to confirm processing metallurgical recoveries and likely concentrate grades. A high level overview of some of these reports has provided some details and the following must be noted:

- All assays conducted on concentrates to date appear to only include Sn and WO_3, assays for concentrates need to include for impurities also ensuring the concentrate is saleable and if any penalties / credits may apply for other minerals in the concentrate. Full assays of concentrates from testwork is required to gain a clear understanding of the flow sheet required to produce a saleable concentrate;
- Traceability of the samples tested to demonstrate that samples are representative of even a preliminary mining plan is not able to be established on the data reviewed to date. It will be important to establish testwork sample representivity for testwork to be conducted in the future and for any testwork that has been generated to date that is to be used in the PFS;
- Understanding the content of sulphur in all ore sources is important from the point of view of concentrate grades, additional processing steps required and also for sulphide tailings storage required as acid forming tailings will need to be stored in a specifically designed facility;

1.2 Operating (OPEX) and Capital Cost Estimate (CAPEX) Review

GRES has conducted a review of the capital cost estimates and the following bullets provide a summary of the findings:

- The accuracy level of costs stated in the conceptual reports was -20%, +50%, 3Q07, based on the information provided and likely flow sheet GRES would describe the costs as -0%, +40%, 1Q14 at best, based on the described battery limits, target concentrate grades and recovery for both CAPEX and OPEX;
- The conceptual study flow sheet short falls as pointed out in Devlure Pty Ltd report contribute a significant increase in capital cost for the process facilities and would consume more than the contingency allowance included in the conceptual study estimates;
- The conceptual study flow sheet does not include for separate treatment of the WO_3 concentrate as Great Pyramid does not contain WO_3, this will require additional process steps including potentially flotation, thickening and filtration of WO_3 concentrates;
- GRES estimate the capital costs required for a full process plant to be in the order of $AUD70m (±25%) including all infrastructure required to run the plant and dispose of tailings but excluding mining infrastructure. A gravity only plant would see this capital reduce to the order of $AUD47m (±25%) for 500ktpa plant;
- GRES estimate that a gravity only OPEX of $AUD20 - $AUD22 (±25%) and a full plant OPEX of $AUD30 - $AUD33 (±25%) is the order of magnitude for a 500ktpa plant;
- Mining CAPEX and OPEX is for open pit, not underground which needs to be updated.

1.3 Recommendations

GRES recommend the following steps to be taken:

- Conduct a review of the historic reports and summarise the findings in terms of potential recovery and treatment flow sheet required on each exploration target;
- Confirm from the review of the historic data, the sequence of exploitation of the exploration targets based on flow sheet requirements and estimated cash flows;
- Document testwork data already available including suitability and representivity for the planned sequence including traceability of samples used in testwork;
- Source representative samples to conduct new testwork on where historic information is not complete;
- Engage a mining contractor to undertake preliminary mining plans and costing of mining capital and operating costs for the different exploration targets including confirming transport rates from Great Pyramid;
- Complete recommendations from Vince Algar's report on exploration targets;
- Produce a PFS documenting the findings from the above bullet points.

2. INTRODUCTION

2.1 General

TNT Mines Limited (TNT) requested that GR Engineering Services (GRES) undertake a review of existing studies completed for the tin and tungsten prospects located on the east coast of Tasmania.

This report represents stage 1 of GRES' two stage proposal to TNT, which included a review of existing reports, information and give feedback on suitability of the process flow sheet and the accuracy level of capital cost estimates included in the studies.

The exploration targets span a number of locations in the Rossarden / Stories Creek region on the east coast of Tasmania. TNT is considering the viability of economic development of a mine and process plant that is able to accept feed from multiple sites for recovery of metal concentrates.

2.2 Previous Reports to be Reviewed

The following reports were included in the review conducted by GRES:

Description	Report No	Date	By
Review of Conceptual Studies		Nov 12	Devlure
Great Pyramid Tin Project Conceptual Study	1406-STY-001	Oct-07	Lycopodium
Anchor Tin Project Conceptual Study	1406-STY-002	Oct-07	Lycopodium
Aberfoyle Project, Exploration Potential		Jan 2014	Vincent Algar

Table 2 List of Reports to be Reviewed (Stage 1)

This report presents the following:

- Commentary on the selected process flow sheet and recommendations;
- Commentary on the level of accuracy and current value of the conceptual study capital and operating costs, including any impact from process flow sheet recommendations;
- Single page block flow diagram of the recommended flow sheet

TNT have indicated that the exploration targets as shown in the report by Vincent Algar are to be the focus of the PFS, meaning that the Conceptual Study on the Anchor Tin Project should only be noted and not commented on.

GRES have incorporated some comments associated with a high level review of some of the reports include din Appendix A, a more detailed review is required in the next stage of development.

3. PROCESS REVIEW

3.1 Introduction

The conceptual studies completed by Lycopodium were for hard granitic ore feed from the Great Pyramid and Anchor prospects located approximately 65 km from the Storeys Creek and Aberfoyle Mine sites (the proposed site of the TNT process plant and associated facilities) and were based on a study of the processing of mineralised material from the Anchor Mine undertaken in 1983 by Messieurs S Cross and W Selby of Renison Limited titled "The Metallurgical Treatment of Blue Tier Mineralisation". The Anchor Project was ultimately developed and commissioned in 1989 by the Blue Tier J.V. (Spectrum Resources Australia Pty Limited and Nargun Pty Limited) – mining activities at and around the Anchor Mine had been conducted from 1876 to 1914 and from 1939 to 1945. The project was closed down in 1991. TNT however is considering the processing of the materials outlined in Table 3 - the Anchor deposit has not been included.

The TNT strategy concept was for the initial re-treatment of the heavy media rejects and jig tailings generated from previous operations that treated the Aberfoyle and later, Storeys Creek ores and which ceased in 1981 – Storeys Creek ore was treated at the Aberfoyle plant after the Storeys Creek plant was shut down in December 1971. The jig tailing had been discharged into the creek, along the banks of the creek and ultimately, with the heavy media rejects, in a dry stack with an estimated 489,000 tonnes of plant discharge material. There is an estimated 81,000 tonnes of coarse jig tailing stacked at the Storeys Creek plant site 3 km north west of the Aberfoyle site.

Feed Source	Estimated Tonnage	Estimated Grade %Sn	Estimated Grade $\%WO_3$	Estimated Recovery %
Coarse Jig Tailing	570,000	0.14		32
Slimes Dams	198,000	0.36	0.35	40
Great Pyramid	3,130,000	0.22		50
Lutwyche Surface	500,000	0.59	0.25	72
Aberfoyle Open Pit	5,500,000	0.20	0.03	60
Lutwyche Underground	1,080,000	0.70	0.30	72
Kookaburra	600,000	0.59	0.25	72
Royal George	800,000	0.34		60
Storeys Creek	70,400	0.05	0.59	60

Table 3 Feed Sources Under Consideration by TNT

The remainder of the plant tailings from the Aberfoyle treatment plant was discharged into a total of six "slimes" dams, five of which have been investigated for re-treatment – early operations disposed of tailings into the creeks (Aberfoyle Creek, Side Creek and Storey's Creek) and unconfined onto adjacent land. The mineralised veins of the Lutwyche zone lie 1 km north-north-east from the main shaft of the

Aberfoyle Mine while the Kookaburra lode lies between Lutwyche and the Spiers Shaft of the Aberfoyle Mine.

The Great Pyramid deposit has a significant estimated tonnage of low grade tin mineralisation and lies approximately 75 km to the north east of the Aberfoyle Mine. Due to the low grade, historical production (1925 to 1936) was consequently small (336 tonnes ore).

The Royal George deposit was worked from 1911 until 1922 and is located approximately 25 km south east of the Aberfoyle Mine.

Given the geographical locations of the prospects, a centralised plant at the Aberfoyle Mine allows for treatment of all the potential resources although transporting low grade mineralised material may not be economic and some form of pre-concentration at specific sites or a modular, transportable plant are also options for consideration. The different mineral combinations (for both valuable and gangue – particularly sulphide - minerals) that occur in the 'satellite' deposits indicate that some process stages may not be required for all feed sources. This could be allowed for with a staged approach to treatment depending on the order of treatment and the economic sustainability for each stage – for example, initial re-treatment of tailings by screening to reject coarse material followed by several stages of gravity recovery including regrinding of middlings may not be financially sustainable which would obviate the addition of more processing stages.

The subsequent addition of flotation to reject sulphides, or heavy media separation to reject a high proportion of mass from hard rock or run of mine material may need to be implemented at an early stage which would be an interference and distraction to existing operations.

Alternatively, a heavy media module could be used at a satellite deposit such as Great Pyramid which the pre-concentrate transported to the Aberfoyle site to supplement or follow the tailings re-treatment.

Remediation and rehabilitation activities have been undertaken at the Aberfoyle and Storey Creek sites to mitigate the effects of acid and heavy metal contamination of land and water which has affected water supplies and fishing as far as the South Esk River.

Treatment of material over the past 30 years, in particular the tailings areas with limestone and other chemicals, may have effects on the processes used in any proposed concentrator that were not evident in previous test work.

Historical metallurgical test work that has been carried out on the proposed feed sources includes the following which have been used by GRES for this review, refer Table 4:

Description	Report No	Date	By
Preliminary Report on Tin – Tungsten Mineralization in ML 27M/77		Mar-83	T. G. Summons
The Shell Company of Australia Ltd Metals Division E.L. 10/80 – Great Pyramid Progress Report on Exploration During the Period 3/8/82 to 1/9/83	08.2065	14-Sep-83	P.A. Ruxton
Concentration Tests and other Studies on Tin Ore, Great Pyramid Prospect, Upper Scamander for the Shell Co of Australia	R814	3-Mar-83	H.K. Wellington & P.L. James
The Metallurgical Treatment of Blue Tier Mineralisation (Renison Limited)	RL8713	14-Feb-83	S. Cross & W. Selby
Tin & Tungsten Distribution in Coarse Tailings From The Aberfoyle Mine at Rossarden and a Recovery Test Incorporating Grinding of a Selected Size Range of the Tailings (Department of Mines – Tasmania, Launceston)	R829	27-May-83	H.K. Wellington & L.J. Rhodes
Rossarden Tin Mine: An Investigation of the Open Cut Potential of the Rossarden Tin Mine, North-Eastern Tasmania (Stackpoole Enterprises)	RL8808	Jun-Jul-89	C. Roberts & M. Teh

Table 4 Historical Reports Used in Process Review

Many of the historical reviews and reports question the representivity of the samples collected for testing either based on the method of sampling, the location of the samples, the difference between assayed and reconciled head grades with the resource estimate for grade and sometimes the difference between the calculated and assayed head grade.

The assays available have concentrated on tin with little or no assaying of other elements (sulphur, arsenic, iron, copper, lead, molybdenum) or compounds (silica, alumina).

3.2 Tailings

3.2.1 Historical Flowsheets

Bulk tin and wolfram concentrate was generated by gravity separation using jigs. Batch flotation was introduced in 1940 to 1941 to remove sulphides. Magnets were used to separate the bulk concentrate into respective tin and wolfram products. Annual production for 1940 to 1941 was 323 tons of tin concentrate and 26 tons of wolfram concentrate generated from 16,000 tons of ore grading 1.534% Sn. The mill operated 10 hours per day, 5 days per week. Mill performance for January to March of 1942 is shown in Table 5.

Stream	Mass %	Tin Grade %Sn	Tin Recovery %	Tungsten Grade %WO_3
Feed	100	1.988	100	?
Primary Gravity Tail	89.9	0.17	7.7	
Secondary Gravity Tail	6.9	1.20	4.2	
Gravity Concentrate	3.2	54.7	88.1	
Flotation Concentrate 1	0.3	2.00	0.3	
Flotation Concentrate 2	0.2	2.40	0.2	
Magnetic Separation WO_3 Magnetics	0.4	0.70	0.1	72.5
Magnetic Separation Tin Non-Magnetics	2.33	74.64	87.48	

Table 5 Mill Production Statistics 3 Months 1942 (from M. Mawby & P. Nye)

In 1978, the processing plant at the Aberfoyle Mine had a flowsheet (simplified) as shown in Figure 2.1. The feed was crushed to less than 25 mm and screened at 2 mm. The coarse material (approximately 84% of the feed mass was plus 2 mm) passed through a heavy media separation bath (a conventional Atkins screw classifier converted for use as a heavy media bath) operating with a medium density of 2.54 achieved using ferrosilicon. The rejects (floats) from the heavy media bath comprised the quartz gangue while the cassiterite and wolfram minerals reported into the sinks fraction. Despite the low specific gravity of the medium relative to the density of quartz, separation of the minerals was possible due to the lower settling rate of the silica particles. 60% of the feed mass reported to the floats reject stream with a loss of 3% of the cassiterite and 4% of the wolframite. The fines (minus 2 mm) contained just over 50% of both the tin and tungsten in 16% of the feed mass – the fines assayed 1.3% Sn and 1.3% WO_3 compared to the plant feed grade of 0.4% Sn and 0.41% WO_3.

Previous to the heavy media circuit installation, jigs were used to reject the quartz from the coarse fractions. Jigs were also used in 1978 after desliming, to concentrate the heavy minerals prior to upgrading on shaking tables.

The heavy media circuit floats and tailings from the jigs were discharged concurrently. Given the change in flowsheet from jig only tailing to heavy media floats and jig combined tailing later, it is likely that there will be size distribution and grade variations in the material reclaimed from the coarse jig tailings pile and that consideration to some form of blending or mixing during the method of reclaim may be required. Alternatively, screening to remove all plus 9 mm material that may be barren. Note that the Storeys Creek pile was generated from jigs only.

3.2.2 Test Work Review

Details of testing on material from the coarse tailings were reported by H. Stackpoole and T. Summons in 1985 (Wheal Lutwyche Pty Ltd, Annual Report for the Year Ended 5th June 1985).

3.3 Coarse Jig Tailings

3.3.1 Historical Flowsheets

Bulk tin and wolfram concentrate was generated by gravity separation using jigs.

3.4 Great Pyramid

3.4.1 Introduction

Metallurgical assessment of the Great Pyramid deposit near St Helens was undertaken by several organisations and the findings summarised in a report by D. Hall and B. Carter in January 1986 titled "Great Pyramid Tin Deposit North East Tasmania Resource Estimate", report number 08.3157. It included results from the following investigations:

> "Preliminary Metallurgical Investigation of Tin Ore Deposit from Tasmania – Great Pyramid", report number 16.020.1/1 for The Shell Company of Australia Limited Metals Division, by Mineral Deposits Ltd (MDL), 1984
>
> "A Further Study on Cassiterite Ore in Middling Products from Test Work Report 16.020.1/1", report number 16.020.1/2 for The Shell Company of Australia Limited Metals Division, by MDL, July 1984

Earlier test work carried out on the Great Pyramid prospect by the Department of Mines – Tasmania (DMT) for the Shell was included in the "Progress Report on Exploration During the Period 3/8/82 to 1/9/83" compiled by P. Ruxton (report number 08.2065):

> "Concentration Tests and other Studies on Tin Ore, Pyramid Prospect, Upper Scamander", report R814 for The Shell Company of Australia, by the Department of Mines – Tasmania (H. Wellington & P. James), 3rd March 1983.

The low grade nature of the deposit, low tin prices and the requirement to obtain a quota for production of tin all contributed to the lack of development of the Great Pyramid prospect.

Despite the extensive metallurgical testing completed, no flowsheet was confirmed due to the relatively fine grind size (-600 µm to – 400 µm) that was indicated as being necessary, the large losses of tin in slimes rejects and difficulty in balancing the results (as noted by Mr Kevin Foo from Aberfoyle Limited in his review dated 12 November 1985).

3.4.2 *Mineralogy*

Mineralisation occurs in veins and veinlets at joints and fractures in the hard host rock which comprises beds of sandstones, siltstones and shales which have been intruded by granite and dolerite. The sandstone is silicified and is equivalent to quartzite. The host rocks are therefore competent and comments were made in test reports alluding to the hard nature of the material which will require high energy input into size reduction stages. Therefore, rejection of barren material at a coarse size needs to be a major consideration in process design. The low grade (0.22% Sn), the lack of mineralisation in the host rock, and the relatively long distance from the other potential mine sites also support reduction in mass during processing as soon as practicable – ore sorting, rejection of coarse rock by screening and heavy media separation are possible process stages for a treatment facility located at the Great Pyramid site.

The mineralised fractures and veins which are fine with variable widths up to 5 mm wide contain quartz, muscovite, tourmaline, iron oxides (limonite or hematite), cassiterite and traces of wolframite, fluorite and pyrolusite. Sulphide minerals (pyrite, molybdenite) also occur at depth and have been converted to iron oxides in the upper oxidised zone. The cassiterite is often associated with the sulphides and wolframite. Contamination of concentrates with sulphide minerals may therefore be a potential problem requiring a sulphide flotation stage to remove.

The cassiterite is generally coarse grained (>100 µm) with some particles up to 600 µm in size being present. The Department of Mines - Tasmania report R814 however noted that cassiterite was present as clusters of grains which ranged in size from 5 µm to 30 µm. Size reduction stages should therefore target small reduction ratios and grinding mills closed with screens rather than cyclones to minimise overgrinding and shattering of the clusters as recovery from the fine size fractions are typically low.

The DMT report R814 also noted that there was a significant proportion (25% to 40%) of material in the samples investigated that was sericitic – fine grained muscovite and mica with particle sizes of 5 µm to 10 µm. These mineral fines tend to have high surface charges and contribute to viscosity effects that reduce the efficiency of separation in hydrosizers, heavy media circuits and flotation.

3.4.3 *Test Work Review*

Detailed testing was carried out by the DMT and MDL that indicated the samples were amenable to pre-concentration and tin concentrate could be produced at reasonable grade (>40% Sn) and recovery (>60%) when the head grade was high (>0.4% Sn) but that recoveries were low (50%) when the head grade was similar to the estimated reserve (0.22% Sn). Test results are summarised in Table 6.

Year	Source	Sample	Head Grade %Sn	Conc Grade %Sn	Tin Recovery %	Conc Mass %	Test Conditions / Flowsheet	Tin Distribution
1945	DMT		0.64	22	78.6		Grind to -420 µm, gravity	
			0.64	27	80.6		Grind to -250 µm, gravity	
			0.64	27	80.2		Grind to -180 µm, gravity	
			0.64	11	71.8		Flotation	
			0.64	6.4	81.8		Flotation	
1963	DMT	550 kg	2.17	61.6	79.26		Grind, gravity	
			2.17	59.7	84.55		Included regrind of +250 µm tail	
			2.17	59	87.05		Included regrind of +150 µm tail	
			0.76	50.5	73.81		Grind, gravity	
			0.76	48.9	77.25		Included regrind of +250 µm tail	
			0.76	46.9	79.76		Included regrind of +150 µm tail	
			0.47	46.9	60.59		Grind, gravity	
			0.47	43.8	66.61		Included regrind of +250 µm tail	
			0.47	41.3	71.37		Included regrind of +150 µm tail	
1971	Aberfoyle	73 kg	0.296	47.6	63.5		Gravity, magnetic separation	32% -850 µm +500 µm
		drill chips						33% -500 µm +300 µm
1979	Aberfoyle		0.63	28.9	86.0	1.9	Sinks HLS @ 2.96 sg -600 µm +45 µm	
			0.60	38.13	63.7	1.0	Gravity	
			0.19	5.6	68.7	2.3	Sinks HLS @ 2.96 sg -600 µm +45 µm	
			0.20	7.9	13.7	0.34	Gravity	
1983	DMT	50 kg Pilot	0.22	52.9	54.5			54% -300 µm +125 µm
	for Shell	546.7 kg	0.22	1.3	73		Sinks HLS @ 2.95 sg	47% -300 µm +75 µm
1984	MDL		0.414	48	43		Hydrosizer, Spiral, Table, Mag Sepn	
	for Shell						-400 µm grind	

Table 6 Summary of test results for the Great Pyramid deposit

The pre-1979 test work was carried out on very high grade samples and returned recoveries of 65% to 85% using standard gravity separation (jigs, spirals, tables) at generally reasonably fine feed sizes (P_{80} of less than 400 µm) and flowsheets that included regrind stage/s. Despite the fine grinds, concentrate grades were relatively low (less than 45% Sn) which probably reflects contamination by other high specific gravity minerals and misreporting fine gangue.

The size – assay results from samples crushed at the DMT to less than 8 mm indicates that the tin is distributed fairly well across all size fractions – no size – assay data were presented by MDL. HLS tests on individual size fractions indicate that liberation of the tin minerals is not sufficient until a grind size of about 600 µm. The DMT results (1983) for material minus 1.24 mm rejected 87% of the mass for a loss of 27% of the tin at a separation density of 2.7 t/m^3, and 98% of the mass was rejected with 29% of the tin at a density of 2.95 t/m^3. Aberfoyle tests (N. Moony, 1979) on a finer grind (-600 µm +45 µm) rejected 98% of the mass at a density of 2.96 t/m^3 with a loss of 14% of the tin for a high grade sample (0.63% Sn) while the low grade sample (0.19% Sn) had a higher tin loss of 31% with 97.7% of the mass. The floats assayed 0.07% Sn to 0.09% Sn – similar content to gravity tailing.

Therefore, despite the preference to pre-concentrate at as coarse a size as possible due to the inferred hard nature of the material, the results of HLS and size – assay tests indicate that a fine size is needed to effect rejection of feed material without significant loss of tin. Tin losses with the floats reject ranged from 14% to 35%.

The DMT pilot flowsheet did not use heavy medium separation and the 50 kg sample was ground to less than 170 µm. A jig was used to remove a concentrate from the grinding circuit circulating load (0.04% mass pull at a grade of 14.4% Sn and 2.6% tin recovery). A hydrosizer was used to generate two size fractions for separate gravity treatment. The hydrosizer rejected 27% of the overall feed to slimes with a loss of 23% of the tin. In conjunction with the 18% mass and 7% tin rejected by the deslime cyclone (-5 µm), the high proportion of tin lost in fines indicates over-breakage of the cassiterite during size reduction. The final concentrate assayed 53% Sn with 58% recovery from a 0.22% Sn head grade.

The MDL pilot tests used a similar flowsheet to that employed by the DMT in 1983 and again tin losses into the slimes streams (deslime cyclone overflow and hydrosizer overflow) were high – 51% mass rejection with 35% loss of tin. A high proportion of fines is either inherent in the material or has resulted from handling and size reduction methods used. The samples may have been overground however, the vast difference in the fines losses and the effect on ultimate recovery is highlighted by the test result comparisons in Table 7 and emphasises the importance of how samples are obtained (not drill chips or pulps) and how they are handled and prepared. Calculated mass balances for both the DMT and MDL pilot tests are given in Appendix C.

Fines Losses	Mass %	Grade %Sn	Tin Loss %	Head Grade %Sn
DMT 1983	45.1	0.146	30.1	0.22
MDL 1984	51.6	0.25	33.3	0.385
Moony 1979	9.5	0.13	2.1	0.63
Moony 1979	12	0.13	8.0	0.20

Table 7 Fines (nominally -45 µ) rejects from classification stage

3.5 Royal George

3.5.1 Introduction

170,000 tonnes of ore grading 0.65% Sn was mined from the Royal George deposit between 1911 and 1922 to produce over 900 tonnes of tin concentrate that assayed 65% Sn to 70% Sn. This indicates tin recoveries of 52% to 57% were achieved from the relatively high grade plant feed. The tailings dump occupies 36,000 m^3 and since 2006 has been remediated as part of the Tasmanian Government programme to reduce acid contamination of water and soil generated by historical mining activity. Drains were installed and crushed limestone and fertiliser were applied to the surface of the dump.

The estimated reserve is 800,000 tonnes at a grade of 0.34% Sn. Based on the lack of test work and limited details of historical performance, a sampling and metallurgical test programme will be needed to progress the justification for including the Royal George deposit in the mine sequence.

3.5.2 Mineralisation

The deposit comprises granite lithologies of different textures but with similar mineralogy. Coarse grained granite has large grains of feldspar up to 50 mm in length and anhedral and subhedral quartz up to 25 mm in size. Fine grained, porphyritic granite contains phenocrysts of feldspar and euhedral quartz in the fine grained matrix. Greisen granite is also present. Biotite, a mica mineral, and tourmaline are present in both granite forms.

The coarse granite will result in liberation of minerals at coarse sizes while the porphyritic granite will require a finer grind size to liberate the minerals present. This indicates a flowsheet comprising several stages of size reduction and gravity separation or use of regrinding of (variable and relatively high tonnage) middlings streams. Coarse granite is likely to be readily upgraded by pre-concentration (ore sorting or heavy media separation) however a much finer feed size will be required for pre-concentration of the porphyritic granite.

To complicate the gravity separation stages, the granites have undergone alteration to sericite and talc with some kaolinisation close to the mineralised zones. Consequently there will be a high proportion of fine particles generated during size reduction stages. Any coarse micaceous particles will tend to block screens and increase circulating loads unless slotted apertures are used – note that these minerals also report as oversize in cyclone overflow giving a biased product size distribution that is coarse and can lead to overgrinding of the cassiterite if corrective actions are taken to reduce the grind size. The fine sericite and clay will also tend to increase viscosity of pulps thereby affecting the efficiency of classification, gravity separation, flotation and heavy medium separation (by contaminating the medium).

Tourmaline is a black aluminium silicate mineral that tends to report with the gravity concentrate due to its tabular shape despite a low specific gravity (3) relative to cassiterite (specific gravity of 7).

The cassiterite tends to be implanted on the quartz and fills cracks in the quartz veins and greisen quartz. The mineralised veins are variable in width so some head grade variability is likely to occur although the descriptions of the geology state that the tin grades are fairly consistent in the different granite hosts. The wider veins tend to be more altered and silicified – the sericite and clay interferences in processing will be greater when fed to a concentrator.

Sulphide minerals are common in the tin rich veins. Pyrite and chalcopyrite are the main accessory sulphide minerals but arsenopyrite and sphalerite are also disseminated through the greisen host and along fractures. In some areas, the sulphides were reported to comprise up to 10% of the rock. Analysis of the acid mine drainage solutions gave levels of arsenic, copper, lead, manganese, sulphur and tin above 100 ppm indicating that sulphide mineral levels in the plant feed will possibly result in contamination of the tin concentrate and that a sulphide flotation stage will need to be included in the flowsheet.

Oxidised uranium minerals were identified in old workings in 1955. Subsequent drilling in the deposit intersected only two narrow bands of radioactive minerals which assayed 0.01% U_3O_8 to 0.1% U_3O_8. The mineral was identified as torbernite, a secondary uranium copper phosphate mineral and was present as flakes or speckles on rock surfaces and in joints. Although rare, it's presence will need to be monitored in the process and products.

3.5.3 Test Work

No test work on samples of Royal George material was found. Based on the mineralogy, metallurgical performance is expected to be slightly less than that achieved with the Aberfoyle hard rock material. A tin recovery of about 60% may be achieved.

4. FLOW SHEET

4.1 Conceptual Study Flow Sheet

The flow sheet selected in the conceptual study for the Great Pyramid exploration target is based on a gravity (spirals and tables) plant being able to produce a saleable concentrate.

The flow sheet selection for a conceptual study has excluded the potential issues of contaminants in concentrate and sulphides in tailings rather than addressing them. Contaminants, especially sulphides are almost certain to add process, handling and storage steps into the conceptual study flow sheet.

4.2 Proposed Changes and Stages to Investigate

The main points including the points highlighted in the Devlure report that need to be addressed in the PFS development are:

- Review existing and conduct new testwork to investigate the potential for mill feed rate reduction by using ore sorting or heavy media separation on representative samples from each exploration target;
- Ensure comminution (crushing and grinding) circuits minimise the potential for overgrinding (sliming) of minerals which will cause excessive losses to tailings, this includes:
  - Crushing to optimal sizing (tertiary crushing);
  - Rod milling as primary mill rather than ball mill;
  - Screen classification rather than cyclones;
  - Coarse gravity and fine gravity steps which will require the inclusion of a regrind stage;
- Include provision for sulphide removal in either pre-treatment stage or a concentrate cleaning stage or both;
- Include provision for WO_3 concentrate gravity, flotation, thickening and filtration;
- A staged approach is imperative from both a smooth operation perspective and optimisation of the required fines gravity and flotation circuits;
- Representivity of ore samples used in testwork of the first two to three years of operation;
- Confirmation, by new or existing testwork, of recoveries achievable at each of the following process steps for each exploration target to assist in confirmation of staged approach flow sheet:
  - Sulphide pre-treatment where required;
  - Coarse gravity;
  - Fine Gravity;
  - Tin Flotation;
  - Concentrate cleaning (sulphide and/or other impurity removal);

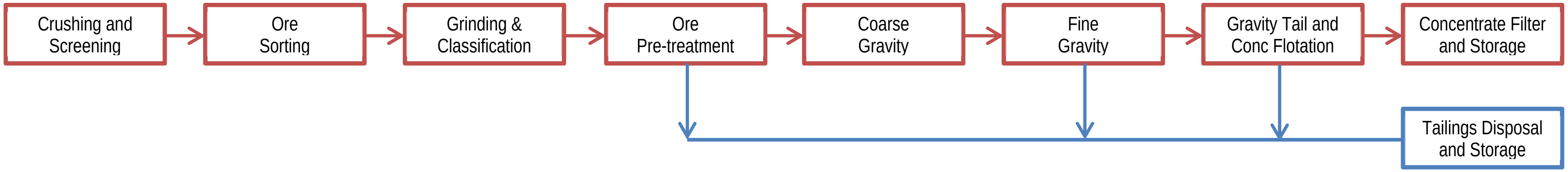

Figure 3.1 Typical Process Flow Block Diagram

Process Stage	Description
Crushing & Screening	Typically a three stage crushing circuit to reach optimum size for ore sorting and feed to grinding
Ore Sorting	Can significantly reduce process costs for the subsequent process steps if rejection of non-mineralised material is significant (>20-30% of mass) with little loss of metal. This is likely to be a significant factor for Great Pyramid and could reduce transport costs.
Grinding & Classification	Rod mill as a primary mill with vibrating or Derrick style classification screen
Ore Pre-treatment	Is potentially needed for high sulphide ores to remove sulphides prior to gravity, depending on liberation sizes regrinding of sulphide concentrates may also be required.
Coarse Gravity	Includes spirals and tables for production of coarse concentrates, some of which (middling) will require regrinding to liberate metals
Fine Gravity	Includes spirals and tables for production of fine concentrates
Gravity Tailings and Concentrate Flotation	Is used to scavenge any remaining Sn and WO3 from coarse gravity tails, fine gravity tails and to remove any impurities (such as sulphur) from the concentrate that may incur penalties, separate circuits are required for Sn and WO3
Concentrate Filter and Storage	Concentrates for both Sn and WO3 will need to be filtered to remove water and stored in an enclosed shed / containers ready for transport.
Tailings Disposal and Storage	Sulphide or PAF (potentially acid forming) tailings will need to be stored in a specifically design storage facility for environmental purposes, this is typically a different (smaller lined facility) to the NAF (non-acid forming) tailings to reduce overall costs of the tailings storage facility.

4.3 PFS Flow Sheet

A typical block diagram is included as Figure 3.1. This is a simplified flow sheet and each process step is not necessarily required for each exploration target.

To effectively assess a staged approach to the project, metal recovery, concentrate grade and impurities at each of the coarse gravity, fine gravity and flotation stages of the flow sheet needs to be understood for each exploration target to ensure saleable concentrate is able to be produced.

4.4 Flow Sheet Requirements by Ore Source

The following section describes the process flow sheet that GRES feel is required for each ore body based on the information reviewed to date and our process knowledge.

4.4.1 Coarse Jig Tails

The coarse jig tailings is ore that has been treated by gravity previously and has a low grade. To recover additional metal units the process plant will be relaying on better technology or more process steps.

The coarse jig tailings will not require a crushing plant, the material will be reclaimed by front end loader (FEL) and fed into the plant by an feed hopper. Depending on the regrind requirements for this material and if it is blended into a main feed or campaigned separately the material could potentially be fed into a scrubber / repulper for removal of organic material and fed direct into a regrind mill for processing.

The coarse jig tailings material is likely to require regrinding to liberate minerals. Review of existing testwork and additional testwork on representative samples will provide definition as to which of coarse gravity, fine gravity and flotation process steps are required to achieve 32% recovery as stated in the schedule.

It is anticipated that this material as a minimum will require regrinding, fine gravity and concentrate dressing flotation to produce a saleable concentrate.

4.4.2 Slimes Tails

The slimes tailing is fine material and has a medium grade. Reclaiming these tailings may require a scrubber / repulper to remove organic material and produce process slurry for treatment. The crushing plant is not required for the slimes treatment.

As the material is fine it is likely that this material will require a flotation stage to achieve the 40% recovery stated in the schedule.

Tungsten minerals in the slimes will also require flotation to recover metal to concentrate; this will be an independent flotation circuit from the tin flotation and will require specialised reagents.

Removal of sulphides from the slimes is likely to require a dressing stage of flotation.

4.4.3 Great Pyramid

Great Pyramid is an open pit exploration target located approximately 75km by road from the Aberfoyle deposit and introduces a requirement to either;

- Transport ore to a plant located at the Aberfoyle deposit; or
- Relocate the process plant at some stage in the mine life to Great Pyramid;

Given the relatively high cost of infrastructure around the process plant including cost of tailings storage facilities, buildings, power and water supply unless there is a significant upgrade in the exploration target grades and/or total tonnage it will be more economical to transport the Great Pyramid material to Aberfoyle where infrastructure and storage facilities will be installed.

A comparison of the costs of crushing and ore sorting of Great Pyramid material in close proximity to the deposit versus the total transport costs of as mined ore should be conducted in the PFS. It is likely that this will be a more expensive option as duplication of the crushing and ore sorting plant will be capital intensive, however if the Great Pyramid exploration target was processed at the start or finish of the mine life this could be a feasible option.

The low grade of the Great Pyramid exploration target does mean that it is a relatively marginal resource and a detailed review of grades (by mining) and recovery (by new and review of exiting testwork) should be made to ensure this target is able to be mined and processed economically.

Due to sulphide mineralisation it is likely that Great Pyramid material will require a complete process plant (excluding the tungsten recovery stages) to achieve economic recovery, which will need to be determined by testwork, but is likely to be is the order of 60-70%. It is possible that this ore could be treated in a gravity only circuit to achieve the 50% recovery stated in the schedule and then gravity circuit tailings processed at a later date through flotation circuits to recover additional metal.

4.4.4 Lutwyche Surface

Lutwyche Surface will require a full process plant (including tungsten recovery stages) to produce a saleable concentrate at 72% recovery. As mentioned for the Great Pyramid deposit this ore body may be able to be processed ion a gravity only circuit initially with a compromise on recovery and then process gravity flotation tailings at a later date when mining and processing procedures have settled and cash flow allows for additional expenditure on a flotation circuit.

4.4.5 *Aberfoyle Open Pit*

The Aberfoyle open pit exploration target envelopes existing underground workings which will introduce some significant issues in regards to mining and treatment. The old workings will mean that the crushing plant will be required to handle waste material (wire, timber etc). If this is not removed at an early stage it will end up in mills and gravity circuits and cause process interruptions.

Aberfoyle is low grade and will require a full treatment plant (excluding the tungsten recovery stages) to produce a 60% recovery as stated in the schedule. The grade of tungsten present in the Aberfoyle Open Pit is unlikely to be economically recovered at a grade of 0.03%.

4.4.6 *Lutwyche Underground*

Lutwyche underground will require a full process plant (including tungsten recovery stages) to produce a saleable concentrate at 72% recovery.

4.4.7 *Kookaburra*

Kookaburra will require a full process plant (including tungsten recovery stages) to produce a saleable concentrate at 72% recovery.

4.4.8 *Royal George*

Royal George will require a full process plant (excluding the tungsten recovery stages) to produce a saleable concentrate at 90% recovery.

4.4.9 *Storey's Creek*

Storey's Creek is a tungsten target with the grade of 0.05% tin unlikleyto be economically recoverable to a saleable concentrate without blending. Storey's Creek will require a tungsten recovery plant to produce a saleable concentrate.

5. CAPEX AND OPEX REVIEW

The capital and operating costs generated in the conceptual study for the process plant and infrastructure includes for a gravity (spirals and tables) plant to treat Great Pyramid ore and produce a 50% tin concentrate at an overall recovery of 80% tin into concentrate.

The current exploration target schedule provided by TNT includes multiple potential ore sources with variable feed grades of tin and some ore sources that contain tungsten minerals; hence the capital and operating costs developed in the conceptual study are not directly transferable to the required flow sheet for the treatment of all exploration targets.

In addition to the ore source changes, the process flow sheet defined in the conceptual study does not allow for contaminate removal such as sulphides which at best would incur a penalty in concentrate sales and at worst would restrict or prevent concentrate from being sold. This is likely to introduce additional process steps which will have an impact on capital and operating costs depending on the final flow sheet requirements defined by testwork.

5.1 Capital Costs and Operating Costs

A table demonstrating the additional capital and operating costs that would be required between the conceptual study process flow sheet and the potential flow sheet required to enable all exploration targets to be exploited is included in Appendix B. As can be seen from these tables, the tin flotation, tungsten flotation and impurities removal steps have a significant impact (up to 25% on CAPEX and over 50% on OPEX) on costs of the plant.

The plant becomes more complex requiring more operators and the cost of flotation reagents for tin and tungsten minerals are very expensive.

GRES estimate the capital costs required for a full process plant to be in the order of \$AUD70m (±25%) including all infrastructure required to run the plant and dispose of tailings but excluding mining infrastructure. A gravity only plant would see this capital reduce to the order of \$AUD46m (±25%) for 500ktpa plant;

GRES estimate that a gravity only OPEX of \$AUD20 - \$AUD22 (±25%) and a full plant OPEX of \$AUD30 - \$AUD33 (±25%) is the order of magnitude for a 500ktpa plant.

6. RECOMMENDATION AND CONCLUSIONS

6.1 Recommendations

GRES recommend that a detailed review of the historic reports, as contained in Appendix A, is completed and summarise the findings in terms of potential recovery and treatment flow sheet required for each exploration target. The aim of this review is to bring all available data into one place and provide a basis for selecting the sequence of exploitation of the exploration targets based on a staged flow sheet development.

Review the requirements to be able to implement a staged process plant installation, which would include:

- Stage 1 – install crushing, grinding, gravity, concentrate handling and tailings circuits;
- Stage 2 – install flotation circuits for concentrate cleaning and fine metal recovery;

To undertake a staged approach testwork is required to confirm that saleable concentrate (at grade and free from impurities) is able to be produced at each stage which is potentially a limiting factor on some exploration targets.

Document testwork data already available including suitability and representivity for the planned exploitation sequence including traceability of samples used in testwork that has been conducted to date. Finance providers require relatively stringent traceability of testwork samples and the representivity of samples for the first two to three years of the exploitation sequence. Where there are any gaps in the testwork sample representivity or testwork results fresh representative samples will need to be produced to conduct new testwork, this is likely to require site drilling of some or all of the exploration targets.

As the mining methods will change significantly for each exploration target it will be necessary to engage a mining contractor / consultant to undertake preliminary mining plans and costing of mining capital and operating costs for the different exploration targets once the exploitation sequence is defined. There will be significant price differences for each exploration target varying from low cost reclaim of jig and slimes tails, open pit or bodies to underground operations.

Once impurities from each exploration target are understood, discussions with off takers will need to be conducted to understand the impact of penalties and/or credits if concentrate production is out of specification. These discussions would need to take place near the end of the study when a clear understanding of the testwork is achieved and will provide critical inputs to the financial model and risk models for cash flow.

Historical test work is encouraging however a fine grind size (-400 µm) is indicated to provide adequate liberation. Further HLS testing is recommended across the size range from 6.3 mm to 45 µm to quantify the potential for heavy media separation in more detail – note that sample selection and handling need to be considered (diamond drill core, preferably NQ or PQ with staged crushing using small size reduction ratios of about 2 each stage).

There is a fairly clear indication that lower head grades result in lower recoveries however this may be related to the fine target particle size in the tests driven perhaps by the mineralogy and may warrant consideration of a tin flotation stage in the test work.

There was a significant proportion of tin reporting to middling streams further indicating that finer grinding for liberation is required – regrinding of the middlings streams should be included in the test work.

Assays of contaminant elements are needed.

Based on the supposed 'hardness' of the Great Pyramid material, some work index determinations are recommended.

For the estimated feed grade of 0.22% Sn for the Great Pyramid deposit, a concentrate grade of 55% Sn and tin recovery of 60% is recommended based on test results reviewed.

6.2 Conclusion

Although the Conceptual Study for Great Pyramid is not relevant for all of the exploration targets and was priced in 2007, the order of magnitude of capital and operating costs is within a -0%, +40%, 1Q14 range for the gravity only plant. The impact of inclusion of sulphide and other impurity removal steps and the requirement to recover tungsten minerals also introduces flow sheet complexities and will increase the capital costs

APPENDIX A HISTORIC REPORTS

The following list was made available on TNT website and lists the reports available for the Exploration Targets to be considered in stage 2 of the PFS development.

Not all of the listed reports are relevant, however this does provide a significant amount of historic data that may be used as a basis for the PFS and potentially minimise the amount of additional testwork to be conducted to generate a PFS.

TNT MINES LIMITED

ABN 67 107 244 039

Selected Bibliography

The references have been placed in chronological order which is considered to be more useful and have been grouped geographically (Anchor Tin Mine, the tin and tungsten prospects within EL27/2004 (Aberfoyle, Lutwyche, Rex Hill, Royal George, Storey's Creek,) Great Pyramid, Moina, Oonah, Waratah, Ringarooma. References for Tasmanian projects generally quote an MRT report number. These reports can be accessed or copies downloaded from the Mineral Resources Tasmania web site www.mrt.tas.gov.au then go to "Library Services" and "Document Search". The code following "MRT" should be inserted exactly as given for successful access.

Ringarooma Bay – Tin

Thureau, G. 1884. An interim report on some of the more Stanniferous Deposits in the vicinity of the River Ringarooma, County of Dorset, Tasmania. Parliamentary Paper 1884/99. MRT OS_052Keid, H.G.W. 1952. Report on the Tin Fields of North Eastern Tasmania. MRT UR1952_129_145

Jennings, J.N. 1959. The Submarine Topography of Bass Straight. Proc. Roy. Soc. Vic. 71:49-72.

Anon. 1965. Prospectus for A Joint Offshore Mineral Exploration Program in Australia-Tasmania. EL22/1965, EL23/1965, EL6/1965, EL7/1965. Ocean Mining A.G. subsidiary of Ocean Science and Engineering Incorporated. MRT 81_1617

Anon. 1967. Tasmania Offshore Exploration Programme. Operations Reports - March 1966 to December 1966. Tenements:- EL10/1966, EL11/1966, EL22/1965, EL23/1965, EL6/1965 (NE Tasmania, Harvey, R.), EL7/1965, EL8/1966. Ocean Mining Ag. MRT 81_1618

Anon. 1968. Tasmania Offshore Exploration Program, Report of Operations - January 1967 to December, 1967. Tenements:- EL1/1966, EL10/1966, EL11/1966, EL24/1965, EL25/1965, EL6/1965, EL7/1965, EL8/1966 Musselroe Bay, Ringarooma Bay. Ocean Mining Ag. MRT 81_1619 also 81_1620

Volker, J. 1968. Report on Off-Shore Drilling EL2/1965, Tasmania. Broken Hill Pty Company Ltd, Utah Development Co.. MRT 68_0514

Anon. 1968. Proposed T.O.E.C. III Programme EL6/1965 Ringarooma Bay, Tasmania. Ocean Mining NL. MRT 68_0515

Lampietti, F.J., Davies, W., & Young, D.J. 1968. Prospecting for Tin off Tasmania. Mining Magazine- September 1968, Vol. 119, NO.3.

Young, D.J. 1969. TOE - JV Summary, Ringarooma Bay, Tasmania. EL6/1965, EL7/1965. Ocean Mining Ag. MRT 81_1620 (also Anon 1969 MRT 94_3648)

Anon. 1969. Exploration for Alluvial Tin, Rutile and Zircon in Ringarooma Bay off North-East Coast of Tasmania, EL6/1965. Ocean Mining A.G. (as 81-1620 but with appendices) MRT 94_3648 and also see Wellington 1982

Dolan, B.H. 1976. Ringarooma Bay Magnetometer & Sparker Profiling Survey Tasmania 1973. BMR Record 1976/7.

Morrison., K. C. 1980. Sedimentology of the Pioneer Placer Deposit. Unpublished BSc Hons Thesis, University of Tasmania

Neale, T.I. 1980. Ore Reserves of Alluvial Tin Deposits in North East Tasmania. Amdex Mining Ltd, Kibuka Mines Pty Ltd, Moruka Tin Pty Ltd. MRT 80_1497

Wellington, H.K. 1982. R818 : Core Drilling in Ringarooma Bay. Ocean Mining Ag & Tasmania Department of Mines. EL6/1965. Large amount of data to download MRT 81_1621

Lean, J. 1981. A Marine Geophysical Survey in Ringarooma Bay, Tasmania, EL42/1980. Blaxand Seadredge Pty Ltd, Hellyer Mining and Exploration Pty Ltd, & Hydrosets Pty Ltd. MRT 83_1946A

Clementson, I.M. 1981. Notes on Ringarooma Bay, Offshore Tin Potential, EL48/1980. Blaxand Seadredge Pty Ltd, CRA Exploration Pty Ltd. MRT 83_2022B

Anon. 1982A. EL42/1980 Ringarooma Bay, Annual Report 1981. Blaxand Seadredge Pty Ltd & Hellyer Mining and Exploration Pty Ltd. December 1982. MRT 83_1946

Baillie, P.W., Brown, A.V., McClenaghan, M.P., Moore, W.R., Turner, N.J., Williams, P.R. 1982. Geology of the Ringarooma-Boobyalla area. Tasmanian Geological Survey Bulletin 61. MRT GSB61

Anon. 1982B. EL42/1980 Ringarooma Bay, Annual Report 1982. Blaxand Seadredge Pty Ltd & Hellyer Mining and Exploration Pty Ltd. December 1982. MRT 83_1947

Anon. 1983. EL42/1980 Ringarooma Bay, Quarterly Exploration Progress Report for Period Ending March 1983. Blaxand Seadredge Pty Ltd & Hellyer Mining and Exploration Pty Ltd. MRT 83_1969

Macarthur, N.A. 1995. Pre Feasibility Review, Ringarooma Alluvial Tin Project. RL15/1987, RL23/1987. Report for Zephyr Minerals NL. MRT 95_3703

Drummond, A.J. 1996. Zephyr Minerals & Mineral Holdings - Joint Venture - Ringarooma Tin, Annual Report 1996. EL19/1993, RL15/1987, RL23/1987. Mineral Holdings Australia Pty Ltd, Zephyr Minerals NL. MRT 96_3871

Duncan, D.McP. 1998. Annual Report - May 1997 to April 1998, EL19/1993. Mineral Holdings Australia Pty Ltd. MRT 98_4140

Duncan, D.McP. Rhodes, L.J 2000. EL19/1993 and T2MEL Ringarooma Bay, Tasmania. Annual Report on Exploration May 1998 to April 1999. Mineral Holdings Australia Pty Ltd. MRT 99_4338

Duncan, D.McP. Rhodes, L.J. 2000. T2-MEL - Ringarooma Bay, Tasmania. Annual report on Exploration May 1999 to June 2000. Volume 1. Mineral Holdings Australia Pty Ltd. MRT 00_4504

Duncan, D.McP. Rhodes, L.J. 2000. EL19/1993 & T2MEL – Ringarooma Bay, Tasmania. Annual Report on Exploration May 1999 to June 2000. Volume 2. Mineral Holdings Australia Pty Ltd. MRT 00_4483

Duncan, D.McP. Rhodes, L.J. 2000. Sapphire Grades in NE Tasmania. In MRT 00_4483

Mason, A. J. 2000. Pre-feasibility Review, Ringarooma Alluvial Tin, Sapphire and Mineral Sand Project. Updated Report to Mineral Holdings Australia Pty Ltd. MRT 01_4547

Duncan, D.McP. Rhodes, L.J. 2001. EL19/1993 & T2MEL Ringarooma Bay & RL15/1987 & RL23/1987, Fosters Marshes, Tasmania. Annual Report on Exploration June 2000 to April 2001. Mineral Holdings Australia Pty Ltd. MRT 01_4546

Macarthur, N.A. & Mason, A.J. 2000. Pre Feasibility Review, Ringarooma Alluvial Tin, sapphire, & Mineral Sand Project – EL19/1993 – T2MEL. Prepared by MacArthur 1995 & Updated by Mason 2000. Report to Mineral Holdings Australia Pty Ltd. MRT 01_4547

Kinnane, N. R. 2001. Assessment, Great Northern Plains Project. Report to Mineral Holdings Australia Pty Ltd by Niugini Resources Pty Ltd. MRT 02_4742

Duncan, D.McP., Kinnane, N.R., Rhodes, L. 2002. Final Report on Exploration April 1998 to March 2002 - T2 MEL, Ringarooma Bay. Mineral Holdings Australia Pty Ltd. MRT 02_4715 (T2MEL_200203.pdf)

Duncan, D.McP., Kinnane, N.R., Rhodes, L.J. 2002. Final Report on Exploration April 1997 to March 2002 - EL19/993 - Ringarooma Bay. Mineral Holdings Australia Pty Ltd. MRT 02_4716 (EL191993_200203.pdf)

Kinnane, N.R. 2005A. RL 1/2002 - Ringarooma River, Annual Report Period ending 30 June 2004. Van Dieman Mines Pty Ltd. MRT 05_5200

Kinnane, N.R. 2005B. RL 1/2002 - Ringarooma River, Annual Report Period ending 30 June 2005. Van Dieman Mines Pty Ltd. MRT 05_5201

Kinnane, N.R. 2005C. RL 2/2002 - Boobyalla Beach, Annual Report period ending 30 June 2004. Van Dieman Mines Pty Ltd. MRT 05_5202

Kinnane, N.R. 2005D. RL 2/2002 - Boobyalla Beach, Annual Report period ending 30 June 2005. Van Dieman Mines Pty Ltd. MRT 05_5203

Kinnane, N.R. 2005E. RL 3/2002 - Ringarooma Bay, Annual Report period ending 30 June 2004. Van Dieman Mines Pty Ltd. MRT 05_5204

Kinnane, N.R. 2005F. RL 3/2002 - Ringarooma Bay, Annual Report period ending 30 June 2005. Van Dieman Mines Pty Ltd. MRT 05_5205

Kinnane, N.R. 2007A. Combined Annual Reports RL1/2002 Ringarooma River, RL2/2002 Boobyalla Beach and RL3/2002 Ringarooma Bay, Period Ending 30 June 2006. Van Dieman Mines Pty Ltd. MRT 07_5454

Kinnane, N.R. 2007B. Combined Annual Reports RL1/2002 Ringarooma River, RL2/2002 Boobyalla Beach and RL3/2002 Ringarooma Bay, Period Ending 30 June 2007. Van Dieman Mines Pty Ltd. MRT 07_5494

McIntyre, G. 2008. Annual Report for Period Ending 20/6/2008, Combined Annual Report, RL 1/2002 Ringarooma River, RL 2/2002 Boobyalla Beach and RL 3/2002 Ringarooma Bay. Van Dieman Mines Pty Ltd. MRT 08_5732

Dickson, T.W. 2008 Offshore Exploration Licence T3/MEL Bass Strait Report on Exploration August 2007 to August 2008. Mineral Holdings Australia Pty. Ltd. MRT 08_5659 (T3MELreportNo1.pdf)

Dickson, T.W. 2009 Offshore Exploration Licence T3/MEL Bass Strait Report on Exploration August 2008 to August 2009. Mineral Holdings Australia Pty. Ltd. MRT 09_5877

Davies, O. 2009. Combined Annual Reports RL1/2002 - Ringarooma River RL2/2002 - Boobyalla Beach and RL3/2002 Ringarooma Bay Annual Report Period Ending 20th June 2009. Van Dieman Mines Pty Ltd. MRT 09_5922

Anchor Tin Mine

Thureau, G. 1885. Report on the Blue Tier Mining District and Its Tin Deposits. Parliamentary Paper 1885/72. MRT OS_066

Montgomery A. 1889. Report on the Blue Tier Tin field. Ann. Rep. Secretary for Mines Tasmania 1889 - 1890. MRT OS_078.

Montgomery A. 1893. Report on the Tin Mines of the Blue Tier. Ann. Rep. Sec. Mines Tas. for 1893. MRT OS_101.

Montgomery, A. 1893. Report on the Tin Mines at the Blue Tier, County of Dorset. MRT UR1861_1920_017_43.

Twelvetrees W.H. 1901. Report on the Tin Mines of the Blue Tier. Government Geologists Report in Ann. Rep. Sec. Mines. Tas. for 1901. MRT OS_182

Moore M.S. 1912. Report on the Tin Field of the Blue Tier District, Tasmania. Proc. Aust. Inst. Mining Eng. No. 8, pp1-23. Discussion Proc. A.I.M.E. No. 10, pp 253-259, 1913.

Lewis J.B. 1923. The Blue Tier Tin Field of North East Tasmania. Chem. Eng, & Min. Rev. 16. pp. 91-94, Dec. 5, 1923.

Lewis J.B. 1924. Exploration of a Large Low Grade Tin Deposit. Chem. Eng, & Min. Rev. pp. 463-467, Sept. 5, 1924.

Reid A.M. & Henderson Q.J. 1928. The Blue Tier Tin Field. Geol. Surv. of Tas. Bull. 38. Tasmanian Dept. of Mines, 132 pp. MRT GSB38

Stillwell F.L. 1929. Note on the Composition of Specimens of Tin Bearing ore from the Blue Tier. CSIRO Mineragraphic Report 8.

Vincent T.H. 1933. The Michael Moon Tin Mining Company. Report by the Mining Registrar, Tasmanian Department of Mines. MRT 33_0052.

Thomas D.E. 1943. Tin Deposits of the Blue Tier District. Rep. to Dep. Mines Tas. MRT UR1943_035_73

Keid, H.G.W. 1946. Tin Prospects in the Blue Tier Quadrangle (No. 33). MRT UR1946_073_80

Thomas D.E. 1953. The Blue Tier Tin field. In Geology of Australian Ore Deposits, Ed. A.B.Edwards, Fifth Empire Mining and Metallurgical Congress 1953, Vol I, pp. 1213-1221.Aust. I.M.M.

Lavers P.S. 1962. Final Report on the Blue Tier Tin Prospect. The Electrolytic Zinc Company of Australasia Ltd. MRT 62_0344

Morton J.L. 1963A. Preliminary Summary Geological Report of Blue Tier Tin Deposits, Lottah, Tasmania. Report 33/3 by R. Hare and Associates for Aberfoyle Tin Development Partnership. MRT 63_0351.

Morton J.L. 1963B. Report No. 1. EL7/1959. Review at Conclusion of the first sampling Programme at Anchor Open Cut, Blue Tier Tin Deposits, Lottah, Tasmania. Report 33/4 by R. Hare and Associates for Aberfoyle Tin Development Partnership. MRT 63_0357

McGain A. & Morton J.L. 1964A. Review of Diamond Drilling at Blue Tier – Anchor Open Cut, Lottah, Tasmania. Aberfoyle Tin NL. MRT 64_0369.

McGain A. & Morton J.L. 1964B. Review of Blue Tier Prospect at Completion of First Diamond Drilling Programme, Lottah, Tasmania. Aberfoyle Tin NL 33/6. MRT 64_0370.

Mason A.A.C. & Morton J.L.1965. Review of the Blue Tier Tin Prospect on Completion of the Second Diamond Drilling Programme at Lottah, Tasmania. Aberfoyle Tin NL 33/8. MRT 65_0391.

Taylor R.G. 1966A. Preliminary Review of the Third Diamond Drilling Programme at the Blue Tier Tin Prospect. Aberfoyle Tin NL 33/9. MRT 66_0413.

Taylor R.G. 1966B. Blue Tier Report No. 5(A). Review at the Completion of the Third Diamond Drilling Programme at the Anchor Tin Prospect. Aberfoyle Tin NL 33/10. MRT 66_0423.

Groves D.I. 1968. Preliminary Report on the Granitic rocks of the Blue Tier Tin Field. Mines Department of Tasmania.. Tech. Rep. 11. pp. 38-48. MRT TR11_38_48.

Herd B.R. & Rattigan, J.H. 1969. EL6/1968 Prospects and Investigation in the Blue Tier Tin Field of North Eastern Tasmania. Geophoto Resources Consultants Report 69/13 for Texins Development Pty Ltd. MRT 69_0559

Mortimore I.R. 1970. Progress Report on Prospects on the Blue Tier Tinfield EL6/ 1968, NE Tasmania. Geophoto Resources Consultants Report 70/95 for Texins Development Pty Ltd. MRT 70_0688.

Taylor R.G. 1970. Report on the Cambria Tin Prospect Blue Tier District, Tasmania. Ringarooma Exploration Pty Ltd MRT 25_0031. (Vein Mineralisation)

Thomas G. 1970. Memorandum Report on Geofracture Analysis, Blue Tier, N.E. Tasmania, EL6/1968. Geophoto Report 70/21. MRT 70_0696.

Gee R.D. & Groves D.I. 1971. Structural Features and Mode of Emplacement of Part of the Blue Tier Batholith in North East Tasmania. J. Geol. Soc. Aust. 18. pp. 41-55.

Groves D.I. 1972. The Geochemical Evolution of the Tin Bearing Granites in the Blue Tier Batholith, Tasmania. Econ. Geol. No. 67, pp. 445-457.

Mortimore I.R. 1974A. Summary of Geochemical Data for Various Prospects in EL6/1968 NE Tasmania. Geophoto Resources Consultants for Texins Development Pty Ltd. MRT 74_0995.

Mortimore I.R. 1974B. Final Report on Exploration Activities in 6/1968 NE Tasmania. Geophoto Resources Consultants Report 74/2 for Texins Development Pty Ltd. MRT 74_0995.

Groves D.I., Cocker J.D., & Jennings D.J. 1977. The Geology, Geochemistry, and Mineralisation, of the Blue Tier Batholith. Bull. Geol. Surv. Tas. Bull. 55 pp. 1-171. MRT GSB55

Newnham L.A. 1977A. Photogeological Study of the Blue Tier Area, NE Tasmania. Renison Ltd. MRT 77_1204.

Newnham L.A. 1977B. Summary Report on the Blue Tier Tin Prospect EL9/1976. Renison Ltd. MRT 77_1269.

Ross, A.F., with Devlin R.O. & Newnham L.A., 1978. EL9/1976 - Blue Tier Area, Annual Report 1977-1978. Hellyer Mining and Exploration Pty Ltd, Renison Ltd. MRT 78_1314.

Fander H.W. 1978. Petrological Reports 77/11/26, 78/5/40, 78/2/18. Central Mineralogical Services. Appendix 3, MRT 78_1314.

Howland-Rose A.W. 1978. EL9/1976. A Brief Report on a Gradient Array Induced Polarization Test Survey over the Anchor Mine, N.E. Tasmania. Report (Tas-053) by Scintrex for Renison Ltd. MRT 78_1256A.

Groves, D.I. 1978. Vertical Geochemical Zonation within Tin-bearing Granite Sheets, Blue Tier Batholith, NE Tasmania. In Metallization Associated with Acid Magmatism; Volume 3, pp 205-215. Geol. Surv. Czechoslovakia, Prague.

Coupard M. 1979. Photogeological Study of the Blue Tier Area. Hunting Geology and Geophysics (Australia) Pty Ltd for Renison Ltd.

Everard J.L. 1979. Tin Mineralisation at the Anchor Mine, Tasmania. Hon. Thesis.

McCarthy, T.S., Groves, D.I. 1979. The Blue Tier Batholith, North-eastern Tasmania; a Cumulate-like Product of Fractional Crystallization. Contributions to Mineralogy and Petrology, 71(2), p.193-209. Springer International Heidelberg-New York.

Wells K. 1979. Ore Reserve – Anchor Mineralisation EL9/1976. September 1979. Renison Ltd. MRT 82_1696.

Howland-Rose A.W. 1980. EL9/1976. Comments on Electrical Soundings Blue Tier Area, North East Tasmania on Behalf of Renison Ltd. Scintrex Pty Ltd. MRT 80_1424.

Mitchell J.W. 1980. Indicative Feasibility Study Anchor Mine Deposit. Renison Ltd in JV with Hellyer Mining and Exploration Pty Ltd. MRT 82_1695.

Newnham L.A. 1980. Proposal for the Further Evaluation of EL9/1976 Blue Tier, Tasmania. Unpublished report Renison Ltd. MRT 80_1487.

Ross A.F. 1980A. . EL9/1976 Blue Tier Area, 1979 Annual Report. Renison Ltd. Vol I & II. MRT 80_1418.

Ross A.F. 1980B EL9/1976 Blue Tier Area, Eastern Tasmania Progress Report. Renison Ltd. Oct 1980. MRT 80_1488.

Ross A.F. 1981A. Geological Report on the Anchor Tin Deposit at the Completion of Irfill Diamond Drilling. EL9/1976 Blue Tier Area NE Tasmania. Renison Ltd. Open File Report MRT Rep. 81/1596. Vols I & II. MRT 81_1596

Ross A.F. 1981B. EL9/1976 Blue Tier Area, Eastern Tasmania, Geological Report on Bulk Sampling at the Anchor Tin Deposit. MRT 81_1595.

Silver A. 1981. Report on the Anchor Mine Tin Deposit for Hellyer Mining and Exploration Pty Ltd (Santos Ltd) by Terrence Willsteed & Associates. MRT 87_2684.

Anon. 1982. EL9/1976 Indicative Feasibility Study, Anchor Mine Deposit. Renison Ltd and Hellyer Mining and Exploration Pty Ltd. MRT 82_1695

Cartwright A.J. 1982. EL9/1976 Blue Tier Area, Progress Report December 1982. Gold Fields Exploration Pty Ltd, Operator of JV between Renison Ltd and Hellyer Mining and Exploration Pty Ltd. MRT 82_1888.

McClenaghan, M.P., Williams, P.R. 1982. Distribution and Characterisation of Granitoid Intrusions in the Blue Tier Area. Geological Survey Paper, Vol.4, 32p. Mines Department of Tasmania. MRT GSP4.

Wells, K. 1982. Ore Reserve - Anchor Mineralisation EL9/1976, September 1979. Hellyer Mining and Exploration Pty Ltd, , Renison Ltd (Exploration). MRT 82_1696

Cartwright A.J. 1983. EL9/1976 Blue Tier Area, Progress Report December 1983. Gold Fields Exploration Pty Ltd, Operator of JV between Renison Ltd and Hellyer Mining and Exploration Pty Ltd. MRT 84_2081.

Cross S. & Selby W. 1983. The Metallurgical Treatment of Blue Tier Mineralisation. Renison Ltd and Hellyer Mining and Exploration Pty Ltd. MRT 87_2685.

Roberts P.A. 1982. EL9/1976 Blue Tier Area, Progress Report. Renison Ltd. MRT 82_1792.

Higgins N.C., Solomon M., Varne R. 1983. The Genesis of the Granitoids of the Blue Tier Batholith, NE Tasmania. Sixth Australian Geological Conference, Canberra. Abstracts Vol. 9, pp181-183.

Ross A.F. 1983. The Anchor Tin Deposit. Unpublished MSc Thesis, James Cook University.Beddows J.W. 1984. EL9/71976 Blue Tier Area, Progress Report. Gold Fields Exploration Pty Ltd, Operator of JV between Renison Ltd and Hellyer Mining and Exploration Pty Ltd. MRT Rep 84_2143.

Roberts P.A. & Cartwright A.J. 1984. EL9/1976 Blue Tier Area, Diamond Drilling Proposal. Gold Fields Exploration Pty Ltd, Operator of JV between Renison Ltd and Hellyer Mining and Exploration Pty Ltd.

Cartwright A.J. 1985. EL9/1976 Blue Tier Area, Report on the area relinquished in August 1985. Gold Fields Exploration Pty Ltd, Operator of JV between Renison Ltd and Hellyer Mining and Exploration Pty Ltd. MRT 85_2483.

Higgins N.C., Solomon M., & Varne R. 1985. The Genesis of the Blue Tier Batholith, North-eastern Tasmania, Australia. Lithos 18(2), pp 129-149. Pub. Elsiever, Amsterdam, International. ISSN: 0168-164.

Anon. 1988. Geological Resource Review, Anchor Tin Project. Barrett, Fuller & Partners Ltd

Baker M. 1988A. The Anchor Mine Project – Feasibility Report June 1988. Spectrum Resources Australia Pty Ltd. MRT 88_2835.Baker M. 1988B. Ore Reserve at the Anchor Mine. Spectrum Resources Australia Pty Ltd.Mackenzie D.E., Black L.P., & Sun S.S. 1988. Origin of Alkali Feldspar Granites; an example from the Poimena Granite, North-eastern Tasmania, Australia. Geochimica Cosmochimica Acta, Vol. 52, p. 2507-2524, 1988. 79 refs. Pergamon, Oxford, ISSN: 0016-7037.

Purvis, J.G. 1988. Tasmanian Tin Prospects, Part 2, NE Tasmanian Tin Province. Aberfoyle Resources Limited. MRT 06_5259

Newnham L.A. 1989A. Anchor Ore Reserves. Memorandum to Spectrum Resources Australia Pty Ltd. Appendix to MRT 93_3433.

Higgins N.C., Mackenzie D.E., Sun S.S., Black L.P. 1990. Comment on “Origin of Alkali Feldspar Granites; an example from the Poimena Granite, North-eastern Tasmania, Australia.” Geochimica et Cosmochimica Acta, Vol. 54(8), pp 2305-2322. Pergamon, Oxford, ISSN: 0016-7037.

McGregor A. 1991. Detailed Plan from Survey of 5th November 1991 at a scale of 1:250. East Coast Surveying.

McKeown M.V. 1991A. Examination of the B Lens Workings. Memorandum to Alan Titley of Spectrum Resources.

McKeown M.V. 1991B. Grade Reconciliation for Ore Mined in 1990-91. Memorandum to Alan Titley of Spectrum Resources.

McKeown M.V. 1993. The Anchor Mine, a Resource Assessment for Spectrum Resources Pty Ltd April 1993. MRT 93_3433.

Iliff G.D. 1994. ML 55M/1989 Anchor Mine: Report for the quarter ending 30/06/94. Mancala Pty Ltd. MRT 95_3738.

Sun S.S. & Higgins N.C. 1996. Neodymium and strontium isotope study of the Blue Tier Batholith, NE Tasmania, and the origin of the tin bearing alkali feldspar granites.

Akerman T.E. 1998. Preliminary Anchor Resource Review. Mancala Pty Ltd Internal Report May 1998.

Taheri, J. and Bottrill, R.S. 2005. Devonian granites and associated mineralisation in northeast and northwest Tasmania, Tasmanian Geological Survey Record - Excursion Guide. MRT UR2005_03

Anon 2005. Annual Report EL29/2004 Blue Tier. Minemakers Australia NL. MRT 05_5243

Drummond, A.J. 2006. Annual Report EL29/2004, Blue Tiers. Minemakers Australia NL, Unpublished Report. MRT 06_5400.

Anon 2007. Anchor Tin Project, Conceptual Study, 1406-STY-002. Lycopodium Engineering Proprietary Limited, Minemakers TTT Proprietary Limited. MRT 07_5553A

Drummond, A.J., Fulton, R. 2007. Annual Report, EL29/2004 and 55M/1989, Anchor Mine Area, Blue Tiers. Minemakers TTT Proprietary Limited. Unpublished Report. MRT 07_5553.

Drummond, A.J., Fulton, R., Hepburn Brown, D. 2008. Exploration Licence 29/2004 Anchor (Blue Tier) and Mining Lease 55M/1989 Anchor Mine Annual

Report to 26 October 2008. Minemakers Limited. Unpublished Report. MRT 08_5759.Fulton, R. 2009. Exploration Licence 29/2004 Anchor (Blue Tier) and Mining Lease 55M/1989 Anchor Mine - annual report to 26 October 2009. Minemakers TTT Proprietary Limited, Spectrum Resources Australia Proprietary Limited. MRT 09_5954.

Fulton, R. 2009. Final report for Exploration Licence 29/2004 Anchor (Blue Tier). Minemakers TTT Proprietary Limited. MRT 09_5955.

Great Pyramid Tin Prospect

Montgomery, A. 1893. Report on the silver-bearing lodes of the Scamander River district. Secretary of Mines Report 1892-1893. MRT OS_107

Twelvetrees W.H. 1911. The Scamander Mineral District. Geological Survey Bulletin No. 9. pp.32-43 & Plate V. MRT GSB9.

Gulline, A.B., Keid, H.G.W. 1957. The Great Pyramid Mine. Unpublished Report Geol.Surv.Tas. MRT UR1957_148_150

Gulline, A.B., Keid, H.G.W. 1958. Check Sampling at the Great Pyramid Mine, Upper Scamander. Technical Report Geol.Sur.Tas. MRT TR2_62_65

Jack R.H. 1964. Great Pyramid Tin Mine, Upper Scamander. Tasmania Mines Dept. Report. MRT TR8_25_45.

Taylor C.P. 1964. Ground Magnetic Survey Great Pyramid Tin Prospect, Tasmania. BHP Pty. Co. Ltd. MRT 64-0378.

Chesnut W.S. 1964 Report on the North Scamander Prospect, SPL412. BHP Pty. Co. Ltd. MRT 65-0396.

Chesnut W.S. 1965A. Report on the Pinnacles Tin Prospect, Upper Scamander, E. Tasmania. BHP Pty. Co. Ltd. MRT 65_0395.

Chesnut W.S. 1965B. Report on Great Pyramid Tin Prospect, Upper Scamander, E. Tasmania, 1964-1965. BHP Pty. Co. Ltd. MRT 65_0397.

Varley R.J. 1970. Progress Report No.1 on Exploration at the Great Pyramid, NE Tasmania. Aberfoyle Management Pty Ltd. on behalf of Paringa Mining and Exploration Co. Ltd. Appendix with ore reserve assessment by G.Krummei. MRT 70_0663.

Knight J.A. 1971. Progress Report No.2 on Exploration at the Great Pyramid, NE Tasmania. Aberfoyle Management Pty Ltd. on behalf of Paringa Mining and Exploration Co. Ltd. MRT 71_0740.

Groves D.I. 1972. The Zoned Mineral deposits of the Scammander – St Helens District. Geological Survey Bulletin No.53. MRT GSB53.

Anon 1979A. EL12/1978 Scamander Area, Tasmania. Progress Report August 1979. BHP Pty. Co. Ltd. MRT 79_1377.

Anon 1979B. EL12/1978 Scamander Area, Tasmania. Report for October 1979. BHP Pty. Co. Ltd. MRT 79_1398.

Anon 1980. EL12/1978 Scamander Area, Tasmania. Progress Report for 15/09/79 to 15/03/80. BHP Pty. Co. Ltd. MRT 80_1444.

Hine, R. & Goode, A.D.T. 1980. Specifications for Exploration of the Great Pyramid Mine.

Clark D.A. 1981. EL10/1980 Great Pyramid and EL12/1978 Scamander. Summary Report September 1981. BHP Pty. Co. Ltd. Appendix - Vance D. Gt Pyramid. MRT 87_2688.

Anon 1981A. EL10/1980 Great Pyramid, Tasmania. Progress Report on Exploration to 21/07/81. BHP Pty. Co. Ltd. MRT 81_1589.

Anon 1981B. EL12/1978 Scamander Area, Tasmania. Progress Report to 15/09/81. BHP Pty. Co. Ltd. MRT 82_1680.

Anon. 1982A. EL10/1980 Great Pyramid, Tasmania. Report on Exploration for the Six Months Ending 21/01/82. BHP Pty. Co. Ltd. MRT 82_1735.

Anon 1982B. EL12/1978 Scamander Area, Tasmania. Progress Report on Exploration for the Six Months ending 15/03/82. BHP Pty. Co. Ltd. MRT 82_1761.

Kaleta, S. 1983. Great Pyramid Prospect : Mining Study.

Ruxton P.A. 1983. EL12/1978 Scamander. Progress report on Exploration during the period 03/08/82 to 01/09/83. Shell Co. of Australia, Metals Division, Rep 08.2067. MRT 83_2059.

Ruxton P.A. 1983B. EL10/1980 – Great Pyramid, Progress Report on Exploration 03/08/82 to 01/09/83. MRT 83_2049.

Ruxton P.A. 1984. EL12/1978 Scamander. Progress Report on Exploration During the Period 01/09/83 to 01/08/84. Billiton Australia, SCOA Rep 08.2268. MRT 84_2218.

Whitaker A. 1985. EL12/1978 Scamander. Progress Report on Exploration for the Period 15/09/84 to 15/09/85. Billiton Australia, SCOA Rep 08.2956. MRT Rep. 85_2467.
Hall D.B. & Wright R. 1984 . Great Pyramid Geological Resource Estimates 1983-1984. Billiton Australia, SCOA Rep 08.2959 in MRT 86_2532A.& B.

Foo, K.A 1985. Great Pyramid Tin Deposit. Appendix in Hall, D.B. and Carter, D.N. 1986. Great Pyramid Tin Deposit, Northeast Tasmania: Resource Estimates. MRT 86_2532A & B

Whitaker A. 1985. EL12/1978 Scamander. Progress Report on Exploration for the Period 15/09/84 to 15/09/85. Billiton Australia, SCOA Rep 08.2956. MRT 85_2467.

Carter D.N. 1985. EL12/1978 Scamander. Comparison of Analytical Data from Bulk and their Equivalent Channel Samples at the Great Pyramid Tin Prospect. Billiton Australia, SCOA Rep 08.2958. MRT 87_2689.

Hall D.B. & Carter D.N. 1986. Great Pyramid Tin Deposit NE Tasmania. Resource Estimates. Billiton Australia, SCOA Rep 08.3157. MRT 86_2532A & B.

Whitaker A. 1986. EL12/1978 Scamander. Report on Exploration from 15/08/85 to 31/01/86 and Final Report. Billiton Australia, SCOA Rep 08.3170. MRT 86_2588.

Windrim D.P. 1989. Retention Licence RL14/1987 Scamander, NE Tasmania. Report on activities for the year ended 08/03/89. BHP Pty. Co. Ltd. MRT 89_2914.

Wilde A.R. 1990. Retention Licence RL14/1987 Scamander, NE Tasmania. Report on activities for the year ended 08/03/90. BHP Pty. Co. Ltd. MRT 90_3096.

Gregory P.W. 1991. Retention Licence RL14/1987 Scamander, NE Tasmania. Report on activities for the year ended 08/03/91. BHP Pty. Co. Ltd.

Cameron J.K. 1992. Retention Licence RL14/1987 Scamander, NE Tasmania. Report on activities for the year ended 08/03/92. BH P Pty. Co. Ltd. MRT 92-3325.

Cameron J.K. 1993. Retention Licence RL14/1987 Scamander, NE Tasmania. Report on activities for the year ended 08/03/93. BHP Pty. Co. Ltd. MRT 93_3416.

Morrison K. & Knight J. 1996. EL6/1995 Upper Scamander. Year 1 Annual Report. Merrywood Coal Company Pty Ltd. MRT 96_3893.

Morrison K. 1997. EL6/1995 Upper Scamander. Final Report. Merrywood Coal Company Pty Ltd. MRT 97_4064.

Anon 2005. Annual Report EL28/2004 Upper Scamander. Minemakers Australia NL. MRT 05_5244.

Drummond, A.J. 2006. Annual Report EL28/2004, Upper Scamander. Minemakers Australia NL. MRT 06_5399.

Drummond, A.J., Fulton, R. 2007. Annual Report EL28/2004, Great Pyramid. Minemakers TTT Proprietary Limited. MRT 07_5551.

Anon 2007. Great Pyramid Tin Project Conceptual Study Relocated Plant 1406-STY-003 November 2007 Draft. Lycopodium Engineering Proprietary Limited, Minemakers Limited. MRT 08_5760A.Drummond, A.J., Fulton, R., Hepburn Brown, D. 2008. Exploration Licence EL28/2004 Great Pyramid Annual Report to 26 October 2008. Minemakers Limited. MRT 08_5760.

Fulton, R. 2009. Final report for Exploration Licence EL28/2004 Great Pyramid. Minemakers TTT Proprietary Limited. MRT 09_5956.

Tin Projects within EL27/2004

Twelvetrees W.H. 1899. Report on some Tin Mines in the St Paul's River Valley , Near Avoca. MRT OS_143.

Fawns S. Date unknown. Tin Deposits of the World. pp 94-97.

Jones W.R. Date unknown. Tin Fields of the World.

Herman H. 1914. Australian Tin Lodes and Tin Mills. Proc. Aust. I.M.E. No.14, p. 227-4-2.

Clark L.G. & Saint-Smith E.C. 1927. Report on the Aberfoyle Tin Mine Tasmania. Aberfoyle Ltd. MRT 28_0040.

Reid A.M. 1928. Royal George Mine. MRT UR1928A_010_19.

Reid A.M. & Henderson Q.J. 1929. The Avoca Mineral Field. Geol. Surv. Tas. Bull. 40. 143p. MRT GSB40

Clark L.C. 1935. Report on SPL 18 Blue Tier. To Metals Investigation Pty Ltd for the Tasmanian Government Blue Tier Tin Committee. Open File MRT 35_0066

Dunkin H.H. 1946. Tin Mining at Storeys Creek. Chem. Eng. & Min. Review, 39 (2) pp46-51.

Henderson Q.J. 1946. The Geology of the Tin-Tungsten Deposits, Aberfoyle Area, Ben Lomond Area. Tas. Dep. Mines. Rep. MRT UR1946_030_51.

Cottle, V.M., Hall, G. 1950. Preliminary Report on Stops Lead Prospect - Storeys Creek - SPL333. Electrolytic Zinc Company of Australasia Ltd. MRT 02_4679

Edwards A.B. 1951. Some Occurrences of Stannite in Australia. Proc. Aus. Inst. Min. Met. 160-1

Hughes T.D. 1952. H.E. Brocks Tin Prospect, Storeys Creek. Tas. Dep. Mines Rep. MRT UR1952_001_2.

Keid H.G.W. 1954a. Boring at Rossarden. Tas. Dep. Mines Rep. MRT UR1954_006_8.

Keid H.G.W. 1954b. Memorandum: Mr H.E. Brock- Rossarden. Tas. Dep. Mines Rep. MRT UR1954_088_90.

Conolly H.J.C.1953. The Aberfoyle Tin - Wolfram Mine. In Geology of Australian Ore Deposits, Ed. A.B.Edwards, Fifth Empire Mining and Metallurgical Congress, pp 1200-1208. The Australasian Institute of Mining and Metallurgy Inc.1953.

Edwards A.B. 1953. Story's Creek Tin and Wolfram Mine. In Geology of Australian Ore Deposits, Ed. A.B.Edwards, Fifth Empire Mining and Metallurgical Congress, pp 1209-1212. The Australasian Institute of Mining and Metallurgy Inc.1953.

Hughes T.D. 1956. Uranium at Royal George Mine. Ann. Rep. Dir. Min. Tas. for 1955 p.16. MRT UR1955_007_16.

Edwards A.B. & Lyon R.J.P. 1957. Mineralisation at Aberfoyle Tin Mine, Rossarden, Tasmania. Proc. Aust. Inst. Min. Met. 181 pp. 93-145.

Hughes T.D. 1957. Future prospecting at the Aberfoyle Mine. Technical Report – Tasmanian Department of Mines. MRT TR2_65_70

Lyon R.J.P. 1957. The Aberfoyle Vein System, Rossarden. Tasmania. Proc. Aust. Inst. Min. & Met, No. 181, pp 75-91.

Daly J. 1958. Radiometric Logging of the Drill Holes at Royal George Mine, Avoca, Tasmania. BMR Records 1958, No.65.

Blisset A.H. 1959. The geology of the Rossarden – Story's Creek District, Tasmania Dep. of Mines Geol. Surv. Tas. Bull. 46. 117p. MRT GSB46.

Baird J. 1960. Proposed Drilling between Storeys Creek and Aberfoyle. MRT TR4_93_101

Maher B.J. 1961. A Cost Estimate of Underground Exploration for the Royal George Mine. Aberfoyle Tin NL. MRT 61_0336.

King D. 1963. Report on the Tin Resources of Tasmania. Utah Development Company. MRT 63_0364.

Jack R. 1965. Tin ore deposits of North East Tasmania. In Geology of Australian Ore Deposits, Ed. J. McAndrew, Eighth Commonwealth Mining and Metallurgical Congress 1965, Vol I, pp. 497-500. The Australian Institute of Mining and Metallurgy.

Kingsbury C.J.R. 1965. Cassiterite and Wolframite Veins of Aberfoyle and Story's Creek. In Geology of Australian Ore Deposits, Ed. J. McAndrew, Eighth Commonwealth Mining and Metallurgical Congress, Vol. I, pp506-511. The Australasian Institute of Mining and Metallurgy 1965.

Hopwood T.P. & Collins A.R. 1967. Report on the Stratigraphic Sequence and Structure of the Metasedimentary Rocks at Storeys Creek Tasmania. Unpub. company report.

Noldart A.J. 1967. Royal George Tin Mine, Cornwall Coal Co. Tas. Dep. Mines Tech. Rep. No.12. 1967, pp.24-27.

Linden J. 1968. Report on Surface Investigations of EL11/1967 Storeys Creek-Rossarden Area, Tasmania. Report by Cundill Meyers & Associates Pty Ltd for Aberfoyle Management. Unpub. Report. MRT 68-0511.

Austin, K.J., James, P.L., Wellington, H.K. 1968. R510 - Aberfoyle Tin, NL: Gill magnetic separator tests on Storeys Creek vanner tailing. Department of Mines Tasmania Report. MRT TR11_147.

Urquhart G. 1968. Notes on the Royal George Tin Mine. Department of Mines Tasmania Report. MRT TR11_56_65.

Eshuys E. 1969. Report on the Surface Geological Mapping of the Eastern Extension of EL11/1967. Storeys Creek – Rossarden Area, Tasmania. MRT 69_0545.

Schoenharting G. & Yakunin A. 1972. Seismic and gravity survey for Cominco Exploration & Aberfoyle Tin NL– Rossarden Area Tasmania. Geosurveys of Australia Pty Ltd 1972 Open file report. MRT 72_0857

Groves D.I. & Taylor R.G. 1973. Greisenisation and Mineralisation of the Anchor Tin Mine, Northeast Tasmania. Trans. Inst. Min. Met. 82B pp. MRT 877-884.

Leaman D.E. 1974. Gravity survey of the Rossarden-Storeys Creek region. Department of Mines Tasmania Report. MRT UR1974_14.

Groves, D.I., & McCarthy, T.S. 1978. Fractional Crystallization and the Origin of Tin Deposits in Granitoids. Mineralium Deposita, 13(1), pp 11-26. Springer-Verlag, Berlin.

Taylor, R.G. 1978. Five Tin Provinces in Eastern Australia; an Approach to the Classification and Genesis of Tin. In Metallization Associated with Acid Magmatism; Volume 3, pp 43-56. Geol. Surv. Czechoslovakia, Prague.

Purvis J.G. 1979. Initial Exploration at the Old Royal George Tin Mine, EL7/1978, N.E. Tasmania. CRA Exploration Pty Ltd, Cornwall Coal Company NL. MRT 79_1397.

McGushin P.J. & Keyes I.W. 1980. Open Cut Ore Potential of the Aberfoyle Vein System South of the Brandon Shaft. Aberfoyle Tin Ltd. MRT 81_1540.

McGushin P.J. 1980. Tin – Tungsten Ore Treatment at Aberfoyle Tin Ltd, Rossarden, Tasmania. In Mining and Metallurgical Practices in Australia, Ed J.T.Woodcock. The Sir Maurice Mawby Memorial Volume pp 415- 416. Monograph 10, The Australasian Institute of Mining and Metallurgy 1980.

Palmer K.G. 1980. 2nd Preliminary Assessment of the Viability of the Aberfoyle Open Cut Aberfoyle Tin Limited. MRT 81_1545.

Reynolds P.J. 1980. Tin – Tungsten Miming at Aberfoyle Tin Ltd., Rossarden, Tasmania. In Mining and Metallurgical Practices in Australia, Ed J.T.Woodcock. The Sir Maurice Mawby Memorial Volume pp 401- 403. Monograph 10, The Australasian Institute of Mining and Metallurgy 1980.

Dunn P.R. 1981. Drilling of Cainozoic sediments in the St. Pauls River valley, near Royal George. EL7/1978 NE Tasmania. CRA Exploration Pty Ltd. Open-file report MRT 82_1701.

Purvis J.G. 1981. Final Report on Exploration at the Old Royal George Tin Mine EL7/1978, NE Tasmania. CRAE Rep. No.10561. MRT 81_1662.

Wilkins R.W.T. & Ewald A. 1982. Ore-forming fluids of the Aberfoyle tin-tungsten deposit, Tasmania. Journal of the Geological Society of London, January 1982, 139, Part 1, pp 96-97.

Burlinson K., Dubessy J.C., Hladky G., & Wilkins R.W.T. 1983. The fluid use of decrepitometry to distinguish mineralised and barren quartz veins in the Aberfoyle tin-tungsten mine area, Tasmania. Journal of Geochemical Exploration 19 (1-3): 319-333.

de Graf L. 1983A. Regional Study of the Ben Lomond Granite. Shell Research Section, Melbourne. MRT 83_2062.

de Graf L. 1983B. A Preliminary Regional Assessment of the Granites & Tin Potential of NE Tasmania. SCOA Rep. No. 08.2132. The Shell Company of Australia Ltd, Metals Division. MRT 84_2088.

Ruxton P.A. 1983A. Evaluation of the Royal George Area, NE Tasmania. SCOA Rep. No.08.2066.

Ruxton, P.A. 1984. Evaluation of the Old Royal George Tin Mine E.L. 7/78, N.E. Tasmania. Billiton Australia report. MRT 90_3149

Summons, T.G. 1983A. Proposed Aberfoyle Open Pit and Quartz Grades in the Aberfoyle Deposit ML 27M/77 Rossarden District Northeast Tasmania. Summons Geoservices Pty Ltd, Wheal Lutwyche Pty Ltd. MRT 83_2066.

Summons T.G. 1983B. EL28/1978 Rossarden Mines Ltd Final Report. MRT 83_1894.

Austin K. & Wellington, H.K. 1984. Rossarden: No. 2 Tailings Dam Investigation. Tasmania Department of Mines, Wheal Lutwyche Pty Ltd. MRT 85_2372A.

Collins P.L.F., Etheridge M.A., Halley S., Hellsten K.J., Higgins N.C., Solomon M., & Wall V.J. 1984. The Formation of the Aberfoyle and Lutwyche veins. Geol. Soc. Aust. Abst. 12 pp101-102.

De Graaf L. 1984. Geochemical Signatures of Differentiated Granites of Northeast Tasmania. in Mineral Exploration and Tectonic Processes in Tasmania. Ed P.W. Baillie and P.L.F. Collins. pp 25-27. Geol. Soc. Aust.Dunbar G.J. 1984. Rossarden E.L. 48/81 First Annual Report 3rd June 1982 - 2nd June 1983. Seltrust Mining Corporation Proprietary Limited. MRT 84_2080.

McClenaghan M.P. 1984. Granitoids of North-eastern Tasmania. BMR Jour. Geology and Geophysics, 9(4) pp. 303-312.

Ruxton P.A. 1984. Evaluation of the Old Royal George Tin Mine EL7/1978 NE Tasmania. Rep. 08.2491 Billiton Australia (Metals division of the Shell group of companies) MRT 90_3149.

Stacpoole H.J., Summons T.G. 1985. Exploration Licence 59/83 Annual Report for the Year Ending 5th June 1985. Wheal Lutwyche Pty Ltd. MRT 85_2372.

Whitaker A. 1985. EL71978 Royal George – Progress Report on Exploration for the Period 14/07/85 to 13/12/85. Final Report. Billiton Australia SCOA Report 08.3159. MRT 86_2549.

Stacpoole, H.J., Summons, T.G., Vivian, R.M. 1986. Exploration Licence 59/83 Annual Report for the Year Ending 5th June 1986. Wheal Lutwyche Pty Ltd. MRT 86_2548.

Stacpoole H.J. 1987. Exploration Licence 59/83. Annual Report for the Year Ending 5th June 1987. Wheal Lutwyche Pty Ltd. MRT 87_2703.

Anon. 1988B. EL59/1983 Annual Report for the Year Ending 5 June, 1988 Wheal Lutwyche Pty Ltd. MRT 88_2807.

Purvis, J.G. 1988. Tasmanian Tin Prospects, Part 2, NE Tasmanian Tin Province. Report for Aberfoyle Resources Ltd by J.G.Purvis & Associates. MRT 06_5259

Newnham L.A. 1989B. EL5/1988 – Royal George Area, Annual Report 1988-89. Spectrum Resources Australia Pty Ltd. MRT 89_2970.

Roberts, C., Teh, M. 1989. An Investigation of the Potential of the Rossarden Tin Mine, North - Eastern Tasmania. June-July 1989. By Juka Mine Management Pty Ltd for Stacpoole Enterprises Pty Ltd. MRT 89_3055.

Williams E., McClenaghan M.P., & Collins P.L.F. 1989. Mid Palaeozoic Deformation , Granitoids, and Ore Deposits. Burrett C.F. & Martin E.L. (Editors) Geology and Mineral Resources of Tasmania. Special Publication 15, Geological Society of Australia Inc. 1989, pp 238-292.

Forsythe D.L. & Higgins N.C. 1990. Mount Carbine Tungsten Deposit, in Geology of the Mineral deposits of Australia and Papua New Guinea (Ed.F.E.Hughs), pp. 1557-1560. The Australasian Institute of Mining and Metallurgy – Monograph No.14, Vol.2.

Newnham L.A. 1990. EL5/1988 – Royal George Area, Eastern Tasmania. Report to 30th March 1990. Spectrum Resources Australia Pty Ltd. MRT 90_3129.

Taheri, J. and Bottrill, R.S. 2005. Devonian granites and associated mineralisation in northeast and northwest Tasmania, Tasmanian Geological Survey Record - Excursion Guide. MRT UR2005_03

Drummond, A. and Fulton R. 2007. EL27/2004 Annual Report September 2007. Minemakers Limited.

Fulton. R., Drummond. A., & Hebpurn-Broen. D. 2008. EL27/2004 Annual Report October 2008. Minemakers Limited.

Fulton. R. & Morete. S. 2009. EL27/2004 Annual Report October 2009. Minemakers Limited.

Godber K. 2010. GroundProbe Geophysics Report to Minemakers on the Modelling of Gravity Data Over Aberfoyle – Storeys Creek, Tasmania. Geoforce Pty Ltd Ref. GF1183MM_4.0. August 2010.

Fullton R. 2010. Annual Report to 26/10/2010 for EL27/2004 Rossarden-Royal George. Minemakers Limited.

Moina Tin – Tungsten and Fluorite Project

Twelvetrees W.H. 1913. Middlesex and Mt Claude Mining Fields. Geol. Surv. Tas. Bull. 14. MRT GSB14

Hills C.L. 1916. Tungsten and Molybdenum: Middlesex and Mt Claude Districts (Moina & Mt Claude). Geological Survey Mineral Resources Tasmania 1. MRT GSMR01_2

Hitchcock W.E. & Pound J.R. 1919. Notes on the Shepherd and Murphy Mine and on treatment of Bismuth, Tin, and Wolfram Ores. Proc. Aus. Inst. Min. Met. 35.

Reid A.M. 1919. The Mining Fields of Moina, Mt Claude, and Lorinna. Geol. Surv. Tas. Bull. 29. MRT GSB29 (Shepherd & Murphy Mine pp. 67-79)

Broadhurst E. 1934. Report on the Stormont & Black Bluff District. Unpub Rep. Tas. Dep. Mines. MRT UR1934_032_45

Blake F. 1937A. Lawkemlaw Mine, Moina. Tas. Dept. Mines. MRT UR1937_092_94

Blake F. 1937B. Higg's Gold Mine, Narrawa Creek. Tas. Dept. Mines. MRT UR1937_088_91

McKeown M.R. 1938. Shepherd and Murphy Mine, Moina. Geol. Survey Tas. MRT 37_0073.

Hitchcock W.E. 1942. Shepherd and Murphy Mine, Moina. Geol. Survey Tas. MRT 40_0078.

Keid H.G.W. 1943. Report on the Moina District. Tas. Mines Dep. Report. MRT UR1943_181_134

Loftus-Hills, G. 1952. Preliminary report on the Moina tin-wolfram-bismuth project, embracing Shepherd & Murphy, and All Nations Mines. Tas. Dep. Mines Open File Rep. MRT 52_0113

Loftus-Hills C. 1952. The Moina Tungsten – Tin – Bismuth Project. Geol. Survey Tas. Open File Rep. Q37/4. MRT 52_0114.

Elliston J. 1953. The Moina District, in Geology of Australian Ore Deposits. Ed A.B. Edwards, Fifth Empire Mining and Metallurgical Congress pp 1194-9. The Australasian Institute of Mining and Metallurgy.

Blake F. 1955. The Shepherd and Murphy Mine – Moina. Dep. Mines Rep. MRT UR1955_045_55

Blake F. 1956. The Sheppard and Murphy Mine, Moina. App., Ann. Rep. Dep. Mines. Tas., 1955. pp 4-8. MRT UR1955_045_55

Robinson R.G. 1957. Report on the Moina Tungsten Tin Deposits. MRT UR1957_137_146.

Robinson R.G. 1958. Report on the Moina Tungsten Tin Deposits. Tech. Rep. Dep. Mines Tas.. MRT TR2_46_62

Williams K.L. 1957. Tin-Tungsten Ore from the Shepherd and Murphy Mine, Moina. CSIRO Mineragraphic Investigations. Rep. 681.

Burns K.L. 1958. No. 5 Lode, No. 3 Level, Shepherd & Murphy Mine, Moina. Tas. Dep. Mines. Tech. Rep. 2:70-72. MRT TR2_70_72

Manson, W. St.C. l958. R.307, R.308, R.309, Moina Tungsten-Tin Mining Co. N.L. Ore Dressing Investigations. Tas. Dep. Mines Tech. Rep. 2: 147-152. MRT TR2_147 TR2_147_149 and TR2_149_152

Robinson R.G. 1958. Report on the Moina Tungsten Tin Deposits. Technical Report. Tasmania. Dept. Mines. MRT TR2_46_62.

Williams K.L. 1958. Tin-Tungsten mineralisation at Moina, Tasmania. Aus.IMM. Proc.185, pp 29-50.

Jenings I.B. 1965. Middlsex Mineral District. In Geology of Australian Ore Deposits, Ed. J. McAndrew, Eighth Commonwealth Mining and Metallurgical Congress, Vol. I, pp 512-514. The Australasian Institute of Mining and Metallurgy 1965.

Barton C.M. et al 1966. Geological Atlas One Mile Series, Zone 7, Sheet 44, Macintosh, Tas. Dept. Mines.

Gee C.E. 1966. The geology and Mineral Deposits of the Moina – Lorinna Area. Unpub. B.Sc. Hon. Thesis. Univ. Tas. 132 p.

Zarzavatjian, P.A. 1966. Aeromagnetic Survey Staverton Area, North Central Tasmania for the Mt. Lyell Mining and Railway Co. Ltd. by AMEG. Pty. Ltd. Tas. Mines Dep. Open File Rep. Q37/45. MRT 66_0431

Reid, K.O. 1967. Progress Report on Activities in E.L. 8/1965 (Moina Area). Mt Lyell Mining and Railway Co. Ltd Report. MRT 67_0470

Foster, M.J. 1969. Progress Report on activities in the Moina area E.L 8/1965 to July 1969. Mt. Lyell & Railway Co. Ltd. Tas. Dep. Mines Open File Rep. MRT 69_0592

Danday, B.C. 1970. Annual Report Moina Area EL8/1965. 1969-70. Mt. Lyell Mining and Railway Co. Ltd. Tas. Dept. Mines Open File Report. MRT 70_0698

Omnes, G. 1970. Geophysical Survey in the Moina Area (Tasmania) E.L. 8/65, March, 1970. Compagnie Generale de Geophysique, Crane P, Mt Lyell Mining and Railway Co. Ltd. MRT 70_0658

McKibben, J.P. 1971A. Annual Report on Moina Area - EL8/1965, 1970-71. Mt Lyell Mining and Railway Company Ltd Report. MRT 71_0790

McKibben, J.P. 1971B. Interim report on Moina EL8/1965. Tas. Dep. Mines Open File Rep. 37/28. MRT 71_0812

Ried K.O. 1971. Moina Area. Mt Lyell Mining & Railway Co, Ltd. Queenstown. Int. Memo. EL8/1965, 52 p.

McKibben, J.P. 1972. Annual Report on Moina area EL8/1965 1971-1972. The Mt. Lyell Mining & Railway Co. Ltd. Tas. Dep. Mines Open File Rep. MRT 72_0888

Austin G., Serim S., & Walsham, B.T. 1973. Exploration for Porphyry Copper, the Dove Granite Area, Tasmania. Preliminary field report for Freeport of Aus. Inc. by Cundill Meyers & Ass. Pty Ltd. Tas. Dep. Mines Open File Rep. MRT 73_0977

Askins P.W. 1975. Wrigglite – An unusual fluorite bearing skarn. Mt Garnet region, North Queensland, Australia. Unpublished M.Sc. thesis, James Cook University, Cairns.

Basnayake S.B. 1975. Geochemistry and petrology of Ordovician Gordon Limestone, Mole Creek Area. Upub.B.Sc. Hons Thesis, Univ. Tas.

Collins, P.L.F. 1975(a). The Devonport Gold Mine, Black Buff. Tas. Dept. Mines Tech Rep. 18: 10-13. MRT TR18_10_13

Col1ins, P.L.F. 1975(b). Seismic Investigation, Moina. Tas. Dept. Mines Tech. Rep. 18: 14-16. MRT TR18_14_16

Collins, P.L.F. 1975(c). Exploratory diamond drilling in the Moina area EL8/1965. Tas. Dep. Mines Tech. Rep. 18: 17-27. MRT TR18_17_27

Allen, R.J., Ellis, D.J. 1976. Fluoride Extraction from Fluorite. Australian Mineral Development Laboratory, Comalco Limited. (PART OF APPENDIX 29 OF TCR 78-1305). MRT 78_1305c

Allen, R.J., McPheat, I.W., Rogers, W.G. 1977. Treatment of Moina Fluorite. Australian Mineral Development Laboratory, Comalco Limited. (PART OF APPENDIX 29 OF TCR 78-1305) MRT 78_1305D

Stevenson, B.G. 1877. Ore-Dressing Mineralogy of Moina Fluorite Composite Ore Sample. Australian Mineral Development Laboratory, Comalco Limited. (APPENDIX A OF TCR 78-1305D) MRT 78_1305E

AMDEL 1978. Report on the distribution of tin in ores from Moina, Tasmania. AMDEL Adelaide, Report R 745, 6 p.

Askins P.W. 1978(a). Wrigglite – A fluorite rich skarn at Moina, Tasmania. In Geology and Mineralisation of NW Tasmania. Green D.C. & Williams P.R. eds. Special Publication Geological Society Australia.

Askins P.W. 1978(b). The Sheppard and Murphy Mine, Tasmania. In Geology and Mineralisation of NW Tasmania. Green D.C. & Williams P.R. eds. Special Publication Geological Society Australia.

Askins P.W. 1978(c). EL7/1974 Moina. Areas Covered by Moina Sheets 1, 2, &3. Report on all Investigations to September 1978. Comalco Ltd Exploration Department report. MRT 78_1305

Ayling W.P. 1978. Preliminary investigations of the All Nations Mine, Moina. Unpub. Rep. By BRGM Aust.

Komyshan, P. 1978. Explanatory Notes to the Geology of the Bismuth Creek Fault Map. Commonwealth Aluminium Corporation Ltd. (APPENDIX 6 OF TCR 80-1416) MRT 80_1416A

Waite A. 1978. The Petrology, Mineralogy, and Genesis, of the Tin – Fluorine – Tungsten Skarn of Moina. Unpub. B.Sc. Hon. Thesis, La Trobe University. 57 p.

Weste G. 1978. EL7/1974 Moina, Tasmania. Black Buff – Smith Plains Area. Report on all investigations to September 1978 by Comalco Ltd. MRT 78_1306.

Askins P.W. 1978. EL7/1974 Moina. Areas Covered by Moina Sheets 1, 2, &, 3. 1979 update and report on all investigations to September 1978. Comalco Ltd. MRT 78_1305

Askins P.W. 1979(a). EL7/1974 Moina. Areas Covered by Moina Sheets 1, 2, &, 3. and Moina Sheet A. 1979 update and report on all investigations to August 1979. Comalco Alum. Corp. MRT 79_1389 Vol 1 & 2.

Askins P.W. 1979(b). EL7/1974 Tasmania. Report on all investigations Tin Spur and Olivers Hill Devonian Areas to August 1974. Open File Rep. Comalco Alum. Corp. MRT 80_1430

Green, D.C. 1979. Moina Wrigglite: Preliminary report on samples submitted from Launceston Laboratories. [Memo Department of Mines Tasmania] Tas. Dep. Mines. Unpub. Rep. R758, R745, R731, 5 p.

Smyth, W.D. 1979. Moina JV Proposal. Shell Co. Aust. Ltd., Metals Division. Unpub. Rep. 79

Askins P.W. 1980(a). EL7/1974 Moina. General Area, report on all investigations to December 1979. Comalco Alum. Corp. MRT 80_1416.

Askins P.W. 1980(b). EL7/1974 Tasmania. Update Report, Shepherd and Murphy Moina Sheet 1 Area. AMDL & Comalco Alum. Corp Ltd. Report 20/05/80. MRT 80_1434.

Kwak T.A.P. & Askins P.W. 1981. Geology and Genesis of the F-Sn-W(-Be-Zn) Skarn (Wrigglite) at Moina, Tasmania. Economic Geology, Vol 76, 1981, pp 439-467.

Smyth W.D. 1981. EL7/1974 Moina. Progress Report on Exploration during the Period 1/01/80 – 31/07/81. The Shell Company of Australia Ltd, Metals Division. Vols 1 – 5. MRT 82_1728

Smyth W.D. 1982A. EL7/1974 Moina. Progress Report on Exploration during the Period 31/07/81 – 30/06/82. The Shell Company of Australia Ltd, Metals Division. MRT 82_7707.

Smyth W.D. 1982B. EL7/1974 Moina. Progress Report on Exploration during the Period 31/07/81 – 30/06/82. The Shell Company of Australia Ltd, Metals Division. MRT 82_1826.

Smyth W.D. 1983(a). EL7/1974 Moina. Report on Areas Relinquished at 18/01/83. The Shell Company of Australia Ltd, Metals Division. MRT 83_1999.

Smyth W.D. 1983(b). EL7/1974 Moina. Progress Report on Exploration during the Period 1/07/82 – 30/06/83. The Shell Company of Australia Ltd, Metals Division. MRT 83_2046.

Wright R.G. & Hungerford N. 1984. EL7/1974 Moina. Progress Report on Exploration During the Period 1/07/83 to30/06/84. Rep. by Metals Division of the Shell Co. of Aust. Ltd. MRT 84_2261.

Wright R.G., Smith W.D. 1984. EL7/1974 Moina. Report on Area Relinquished on 18/07/84. Rep. by Billiton Australia (Metals Division of the Shell Co. of Aust. Ltd). MRT 84_2211.

Caithness S.J. 1986. EL7/1974 Moina. Report on Exploration for 12 Months to 18/06/86. Rep. by CRA Exploration Pty Ltd. MRT 86_5904.

Strokirch T. von 1987(a). EL7/1974 Moina. Report on Areas Relinquished on 18/07/87. Rep. 14474 by CRA Exploration Pty Ltd. MRT 87_2660.

Strokirch T. von 1987(b). EL7/1974 Moina. Progress Report on Exploration During the 12 Months to 18/06/87. Rep. 14475 by CRA Exploration Pty Ltd. MRT 87_2661.

Strokirch T. von 1987(c). EL7/1974 Moina. Interpretation of Aeromagnetic Data South of Shepherd and Murphy. Rep. by CRA Exploration Pty Ltd. MRT 87_2700.

Anon 1987. Supporting Data to Accompany Application for Retention Licence over the Moina Wrigglite Skarn. MRT 87_2664

Funell F. 1988. EL7/1974 Moina. Report on Area to be Relinquished on 19/07/88. Rep. by CRA Exploration Pty Ltd No. 15173 . MRT 88_2822.

Pemberton J. & Vicary M.J. 1989. Map 9. Geology of the Winterbrook – Moina Area 1:25,000. Geological Survey of Tasmania, Mount Read Volcanics Project.

Purvis J.G. 1989. Tasmanian Tin Prospects, Part 1. West Tasmanian Tin Province. Unpublished Report by J.G. Purvis & Associates, March 1989 for Aberfoyle Ltd.

Randell J.P. 1991. Moina Joint Venture RL10/1988. 1991 Annual Status Report for Shell Company of Australia Ltd and CRA Exploration Pty Ltd. MRT 91_3294.

Borton D.J. 1994. RL10/1988 Moina, Tasmania. Annual Report to 21/10.94. Rep. by Acacia Metals Ltd. MRT 94_3630.

Newnham L.A. 1994. RL10/1988 Moina Area. Report on Drilling Programme May – July 1994. Attachment to Annual Report. Newnham Exploration Services for Titan Resources NL & Goldstream Mining NL. MRT 94_3630A and MRT 94_3640.

Corlett, S.J., Halley, S.W. 1995. Tasmanian Base Metals Project EL42/1987 Incorporating MLs 43/85 and 123M/47 Zeehan. RGC Exploration Pty Ltd. MRT 95_3731,

Borton D.J. 1995. RL10/1988 Moina, Tasmania. Annual Report to 21/10.95. Rep. by Shell/Acacia Resources Ltd. MRT 95_3786.

Newnham L.A. 1995. RL10/1988 Shepherd and Murphy Mine, Mine Workings Hazard Audit. Newnham Exploration Services for Acacia Resources Ltd. MRT 96_3831.

Mackay C.R. 1996. RL10/1988 Moina, Tasmania. Annual Report for the Period to 21/10/96. Rep. by Acacia Metals Ltd. MRT 96_3930.

Newnham L.A. 1996. RL10/1988 Moina Area, Northern Tasmania. Report on Drilling Programme January - February 1996. RL10/1988 Moina Area. Report for Goldstream Mining NL and Titan Resources NL by Newnham Exploration and Mining Services. MRT 96_3930A.

Mackay C.R. 1997. RL10/1988 Moina, Tasmania. Annual Report for the Period to 21/10/97. Rep. by Acacia Metals Ltd. MRT 97_4055.

Newnham L.A. 1997A. RL10/1988 Moina Area, Northern Tasmania. Report on Drilling Programme September-October 1996. Report for Goldstream Mining NL and Titan Resources NL by Newnham Exploration and Mining Services. MRT 97_4055A.

Newnham L.A. 1997B. Summary Report Compiled upon Termination of Joint Venture Agreement – Moina Area (Hugo Skarn) – RL10/1988. MRT 04_5043.

Newnham, L. A. 1997. Relinquishment report for part of EL20/1992 — Moina area. Goldstream Mining NL & Newnham Exploration and Mining Services. MRT 97_4031.

Taylor, A. C. 1990. Gold bearing skarns from the Moina Area northwest Tasmania. B.Sc. (Hons) thesis, University of Tasmania : Hobart.

Kostoglou P. 2000. An Inventory of Historic Mine Workings at the All Nations Group of Mines, Moina. MRT ASR2000_03

Frew, B. 2001. Environmental Exit Report -RL10/1988. Anglogold Australia Metals Pty Ltd, Rio Tinto Exploration Pty Ltd, & Geotech International Pty Ltd. MRT 04_5044

Green, D. 2003. Tube Number 30 - Cethana-Lake Lea 1984-89 (EL26/1985, EL8/1988, EL8/1965, EL41/1983) Placer Dome Asia Pacific. Plans from Archive Store in Zeehan. MRT 03_4911

Morrison K.C., Reed A.R., and Turner N.J. 2003. The Dolcoath Granite: A Gold Exploration Target. Tasmanian Geological Survey Record. MRT UR2003_16.

Morrison, K.C., Reed, A.R., & Turner, N.J. 2003. Western Tasmanian Regional Minerals Programme Devonian Granite Aureoles Project. Regional map set and geophysical signatures. Tasmanian Geological Survey Record 2003/13. MRT UR2003_13

Askins, P.W. 2004. Annual Report - RL10/1988 – Moina. Geotech International Pty Ltd. MRT 04_5083.

Askins, P.W. 2005. Annual Report - RL10/1988 – Moina. Geotech International Pty Ltd. MRT 05_5242.

Drummond, A.J. 2005. Annual Report Retention Licence RL10/1988 Moina. Minemakers Ltd and Geotech International Pty Ltd.

Taheri, J. and Bottrill, R.S. 2005. Devonian granites and associated mineralisation in northeast and northwest Tasmania, Tasmanian Geological Survey Record - Excursion Guide. MRT UR2005_03

Drummond, A.J. 2006. Annual Report Retention Licence RL10/1988, Moina. Minemakers Ltd and Geotech International Pty Ltd.

Drummond A.J. 2007. Annual Report to 21st September 2007 Retention Licence RL10/1988 Moina, Tasmania. Minemakers Australia NL and Geotech International Pty Ltd.

Fulton R. 2008. Annual Report to 21st September 2008 Retention Licence RL10/1988 Moina, Tasmania. Minemakers Australia NL and Geotech International Pty Ltd.

Fulton R. & Pellatt A. 2009. Annual Report to 21st September 2009 Retention Licence RL10/1988 Moina, Tasmania. Minemakers Australia NL and Geotech International Pty Ltd.

Fulton R. 2010. Annual Report to 21st September 2010 Retention Licence RL10/1988 Moina, Tasmania. Minemakers Australia NL and Geotech International Pty Ltd.

Waratah Prospect

Thureau, G. 1884. Report on the Waratah Mining District. Parliamentary Paper 1884/180 MRT OS_056.pdf

Harcourt Smith, J. 1987. Report on the Mineral District between Corinna and Waratah. Rept.Sec.Mines Tas. 1896-97. MRT OS_128

Twelvetrees, W.H. 1900. Report on mineral fields between Waratah and Corinna. Rept. Sec.Mines Tas. 1899-1900. MRT OS_158

Waller, R.F. 1902. The Magnet Tramway. MRT OS_193

Twelvetrees, W.H. 1903. Report on mineral fields between Waratah and Long Plains. Rept. Sec.Mines Tas. 1899-1900. MRT OS_207

Ward, L.K. 1911. The Silver-Lead Lodes of the Waratah District. Geological Survey Report No.2. MRT GSREP2

Twelvetrees, W.H. 1918. Underground workings of the Magnet Silver Mine. Unpublished Report Tas. Dept. Mines. MRT URMISCA_137_149

Nye, P.B. 1922. The silver-lead deposits of the Waratah district. Tasmania Geological Survey Bulletin No.33. MRT GSB33

Reid, A.M. 1923. The Mount Bischoff Tin Field. Geol. Surv. Bull. No.34. Tas. Dept. Mines. MRT GSB34.

Nye, P.B. 1926. Report on the Magnet Mine – Magnet. Tas. Dept. Mines Rept. MRT UR1926_182_189

Nye, P.B. 1929. Departmental Report on the Magnet Mine. Unpublished Report Geol.Sur. Tas. MRT UR1929_063_68

Blake, F., Finucane, K.J. 1933. Report on the Upper Wilson River and Mt Ramsay District. MRT UR1933_085_97

Nye, P.B. 1931. Notes on the Magnet Mine. Unpublished Report Tas. Dept. Mines. MRT UR1931_129

Blake, F., Nye, P.B. 1934. The Mineral Deposits of Tasmania. Unpublished Report Tas. Dept. Mines. MRT UR1934_111_137

Blake, F. 1937. History of Magnet Mine. Unpublished Report by the Tasmanian Geological Survey. MRT UR1891_1969_101

Henderson, Q.J. 1937. Geological features controlling the future of the Cleveland Mine, vicinity of Waratah. Unpublished Report by the Tasmanian Geological Survey. MRT UR1937_020_27

Stillwell, F.L. 1938. Ore Samples form Magnet Silver-Lead Mine, Tasmania. CSIRO Mineragraphic Report No. 126.

Cottle, V.M. 1951. Magnet Silver-Lead Mine, Tasmania. Electrolytic Zinc Co. Aus. Report No.44.

Hughes, T.D. 1952. The Cleveland Mine. Unpublished Report by the Tasmanian Geological Survey. MRT UR1952_116_117

Hughes, T.D. 1953A. The Mount Cleveland Mine. Unpublished Report by the Tasmanian Geological Survey. MRT UR1953_061_71

Hughes, T.D. 1953B. Memorandum: Cleveland Mine. Unpublished Report by the Tasmanian Geological Survey. MRT UR1953_106

Carey, S.W. 1953. The Geological Structure of Tasmania in Relation to Mineralisation. In Vol. 1. Geology of Australian Ore Deposits, Proceedings of the Fifth Empire Mining and Metalliferous Congress Australia & New Zealand 1953. Edited by A.B.Edwards. Aus.IMM Melbourne. pp 1108 – 1128.

Cottle, V.M. 1953. Magnet Silver-Lead Mine. In Vol. 1. Geology of Australian Ore Deposits, Proceedings of the Fifth Empire Mining and Metalliferous Congress Australia & New Zealand 1953. Edited by A.B.Edwards. Aus.IMM Melbourne. pp 1160 – 1165.

Knight, C.L. 1953. Mount Bischoff Tin Mine. In Vol. 1. Geology of Australian Ore Deposits, Proceedings of the Fifth Empire Mining and Metalliferous Congress Australia & New Zealand 1953. Edited by A.B.Edwards. Aus.IMM Melbourne. pp 1185 – 1193.

Hughes, T.D. 1954. The Mount Cleveland Mine – Supplementary Report. Unpublished Report by the Tasmanian Geological Survey. MRT UR1954_082_85

Scott, B.1954. The Metamorphism of the Cambrian Basic Volcanic Rocks of Tasmania and its relationship to the Geosynclinal Environment. Pap. Prec. Roy. Soc. Tasm., vol. 88, 129-149.

Edwards, A.B. 1955. Contrasting Textures in the Silver-Lead-Zinc Ores of the Magnet Mine, Tasmania. CSIRO Mineragraphic Investigations. MRT 55_0118

Hughes, T.D. 1956. Tribute Areas at Waratah. Unpublished Report by the Tasmanian Geological Survey. MRT UR1956_029

Boniwell, J.B., Mattocks, N.G. 1959. Geophysical Surveys, Howard Tasmania Magnetic Survey, Mt Bischoff Area, EL4/1959. Rio Tinto Australian Exploration Pty Ltd. MRT 59_0269

Hudspeth, G.F., Scott, B. 1959. Annual Report EL1/1959 & EL3/1959, Year Ending 30th June, 1959. Electrolytic Zinc Company of Australasia Ltd, Lyell EZ Explorations, Mt Lyell Mining and Railway Co. Ltd. MRT 59_0290

Cottle, V.M., Gregory, I.S., Kingsbury, C.J.R. 1961. Final Report on Airborne Anomaly A5/1 Arthur Area - EL1/1959. Electrolytic Zinc Company of Australasia Ltd, Lyell EZ Explorations, McPhar Geophysics Pty Ltd, Mt Lyell Mining and Railway Co. Ltd. MRT 61_0332

Glasson, K.R., Hopwood, T.P., Mason, A.A.C. 1963. Mount Cleveland Project, Outline of Proposed Exploratory Development and Ore Testing Programme. Aberfoyle Tin Development Partnership, Aberfoyle Tin NL. MRT 63_0362

Everard, G.B. 1963. The Mount Cleveland Mine Project. Report on Mineragraphic Investigations. Dept. of Mines Tasmania. MRT UR1963_001_6

Solomon, M. & Groves, D.I. 1964. The Geology of the Mt. Bischoff District. Pap. Proc. Roy. Soc. Tasm. Vol. No. 98, pp 1 – 22.

Solomon, M. 1965. Geology and Mineralisation of Tasmania. In Geology of Australian Ore Deposits, Eighth Mining and Metallurgical Congress, Aus.IMM. 1965 Edited by J. McAndrew Vol.1. pp 464 – 477.

Anderson, D.E. 1965. The Geology of the South-West Portion of Mt. Bischoff (EL5/1963). Creasy M G. MRT 67_0476

Cox, R. 1965. Geological Report on Completion of the Exploratory Development Project EL1/1963. Aberfoyle Tin Development Partnership, Aberfoyle Tin NL. MRT 65_0384

Gilberthorpe, N.A. 1965. Cleveland Development Project Report Bulk Sampling Operation, Exploratory Underground Development RL 1300 Level. Aberfoyle Tin Development Partnership,

Groves, D.I. 1965. Lead-Silver-Zinc Deposit at Magnet, Tasmania. In Vol.1. Geology of Australian Ore Deposits. Eighth Commonwealth Mining and Metallurgical Congress. Edited by J. McAndrew. Aus.IMM 1965. P491.

Cox, R. 1965. Report Upon Completion of the 1300` R.L. `QA` Adit Level Exploration Programme, Cleveland Mine, Tasmania. EL1/1963. Aberfoyle Tin Development Partnership, Aberfoyle Tin NL. MRT 65_0406

Zarzavatjian, P.A. 1965. EL1/1963 & EL2/1963. Airborne Magnetometer Survey Over the Waratah - Zeehan Area Northwest Tasmania. Aberfoyle Tin Development Partnership, Aero Service Ltd. MRT 65_0402

Zimmerman, D.O. 1965. Tin Ore Deposits of Australia. In Geology of Australian Ore Deposits, Eighth Mining and Metallurgical Congress, Aus.IMM. 1965 Edited by J. McAndrew Vol.1. pp 42 - 43.

Sutherland, D.B.. 1966. Report on the Helicopter AFMAG Survey Northwestern Tasmania. EL5/1963. Australian Anglo American Ltd, Creasy M.G., McPhar Geophysics Pty Ltd, Mines Exploration Pty Ltd. MRT 85_2416

Cox, R. 1966. Report of the Resident Geologist Upon Completion of Diamond Drilling Programme, Cleveland Mine, Tasmania. 43M/1966 & EL1/1963. Aberfoyle Tin Development Partnership, Aberfoyle Tin NL. MRT 66_0419

Cox, R., Glasson, K.R. 1966. Cleveland Mine, Tasmania. Report on Ore Reserves Estimates 43M/1966 & EL1/1963. Aberfoyle Tin Development Partnership, Aberfoyle Tin NL. MRT 66_0420

Sutherland, D.B. 1966. Report on the Helicopter AFMAG Survey North-western Tasmania EL5/1963. McPhar Geophysics Pty Ltd, Mines Exploration Pty Ltd. MRT 66_0428

Cox, R. 1967. Summary of Activity on Clevland EL1/1963 during the period 11/02/1967 to 01/08/1967. Aberfoyle Management Proprietary Ltd, Aberfoyle Tin NL. MRT 67_0474

Glasson, K.R. & Cox, R. 1968. Preliminary Report Magnet Mine, EL1/1963, Waratah District, Tasamania. Aberfoyle Tin Development Partnership, Aberfoyle Tin NL. MRT 68_0498

Cornwall, F.W.D., McBride, B. 1968. Comstaff JV. Geological Review Exploration Licences EL5/1963, EL1/1968 and AM7AP/AM North West Tasmania. Creasy M G. MRT 68_0540

Groves, D.I. 1969. The regional significance of the Don Hill fault zone of Mt Bischoff, Tasmania. Geol. Suv. Tas. Rep. MRT TR14_7_15

Anon. 1969. Comstaff JV. Review of Summer Exploration Program Exploration Licence EL1/1968 1968-1969. Creasy M G. MRT 69_0590

Anon. 1970. Comstaff JV. Review of 1969 - 1970 Exploration Programme Mt. Bischoff tenement AM7AP/AM. MRT 70_0707

Anon. 1970. Comstaff JV. Review of 1969-1970 Summer Exploration Programme Exploration Licence 1/68, Tasmania. Creasy M G. MRT 70_0709

Chisholm, T., Everett, M.P., Henry, D., Pigott, G.F., Wallis, D. 1970. Comstaff JV. EL5/1963. 1970-1971 Summer Field Season Report. Australian Anglo American Limited, Creasy M G. MRT 71_0838

Robison, H.R. 1971. Comstaff JV. EL5/1963 and AM7AP/AM, the Bischoff South Project. A Reconnaissance of the Arthur River and Its Tributaries. Australian Anglo American Ltd, Creasy M G. MRT 71_0720

Claridge, G. & Omnes, G. 1971. Comstaff JV. Geophysical Surveys at Chester Pinnacles, Que River, Arthur River, March 1971. Australian Anglo American Limited, Compagnie Generale de Geophysique, Crane P, Creasy M G. MRT 71_0762

Groves, D.I., Martin, E.L., Murchie, H., Wellington, H.K. 1972. GSB54 – A Century of Tin Mining at Mount Bichoff, 1871-1971. Geol. Surv. Bull. No.54. Tas. Dept. Mines. MRT GSB54.

Herrmann, W. 1973. Comstaff JV. EL1/1968, EL5/1963 and AM7AP/AM. Regional Exploration Heazlewood and Arthur River, 1972/1973 Summer Field Season Report. Australian Anglo American Limited, Creasy M G. MRT 73_0960

Cammell, C. 1974. Comstaff JV EL5/1963 Arthur River Area Regional and Detailed Exploration 1973/74 Summer Field Season. Australian Anglo American Limited, Creasy M G. MRT 74_1017

Cox, R. 1975. Magnet Silver-Lead-Zinc Orebody. In Economic Geology of Australia and Papua New Guinea, Aus.IMM Monograph No.5. 1953. Edited by C.L. Knight Vol.1. Metals pp 628-631.

Rugless, C.S. 1976. Comstaff JV. Interim Report on the Magnet Mine Area EL5/1963 Part 1. Australian Anglo American Ltd. MRT 76_1152

Anon. 1977. EL5/1963. Stream Sediment Sampling - National Coordinates and Assay Results. Creasy M G. MRT 77_1226

Orr, D.B. 1978. Comstaff JV. Six Monthly Report to the Department of Mines, Tasmania for the Period Ended 31st December 1978. Australian Anglo American Limited, Creasy M G, Metals Exploration Limited. MRT 78_1316 (L)

Orr. D.B. 1978. Comstaff JV. Geological Assessment of the Comstaff Licence Areas. Australian Anglo American Limited, Creasy M G. MRT 78_1316C (L)

Hussey, M.C. 1979. Comstaff JV. Photogeological Investigation of the Comstaff Tenements and Adjacent Areas in Tasmania. Australian Anglo American Limited, Creasy M G. MRT 78_1316B (L)

Lee, W.K. 1980. Comstaff JV. Preliminary Economic Assessment of the Arthur River Alluvial Prospect, Exploration Licence EL5/1963, Tasmania. Australian Anglo American Ltd, Creasy M G. MRT 80_1509A (L)

Wilding, I.G.P. & Washausen, G.F. 1980. Comstaff JV. Report on the Arthur River Alluvials, Exploration Licence EL5/1963, Section 1. Australian Anglo American Ltd, Creasy M G. MRT 80-1415

Green, N.P. 1981. Comstaff JV (CSB Grid). Six Monthly Report to Tasmania Department of Mines for the Period Ended 30 December 1981: Preliminary Report on the South Bischoff Mine Area in EL5/1963 Part 2. Australian Anglo American Ltd, Creasy M G. MRT 82_1690B

Pigott, G.F. 1981. Comstaff JV. Report Accompanying Licence Renewal Application for Exploration Licence EL5/1963 Tasmania. Australian Anglo American Ltd, Creasy M G. MRT 80_1509 (L) & 81_1604

Doherty, R., Henley, K.J. 1981. Preliminary Mineralogical and Metallurgical Evaluation of Two Samples of Lead-Zinc Ore. EL5/1963. Australian Mineral Development Laboratory, Australian Anglo American Ltd, Creasy M G. MRT 81_1604A

Green, N.P. 1981. Comstaff JV (CSB Grid). Six Monthly Report to Tasmania Department of Mines for the Period Ended 30 December 1981: Preliminary Report on the South Bischoff Mine Area in EL5/1963 Part 2. Australian Anglo American Ltd, Creasy M G. MRT 82_1981.

Green, N.P. 1982. Comstaff JV (CSB Grid). Six Monthly Report to Tasmania Department of Mines for the Period Ended 30 December 1981: Report on Grids CAI and CAG, EL5/1963, Part 2. Australian Anglo American Ltd, Creasy M G. MRT 82_1690E

Anderson, B.E., Green, N.P., Jones, C.M., Pigott, G.F., Yardley, S.R. 1982. Comstaff JV (CSB Grid). Six Monthly Report to Tasmania Department of Mines for the Period Ended 30 December, 1981; Summary of Work Completed, in Progress and Proposed for EL5/1963. Australian Anglo American Ltd, Creasy M G. MRT 82_1690

Jones, C.M. 1982A. Comstaff JV. Six Monthly Report on the Arthur River Area EL5/1963 Part 1. Australian Anglo American Ltd, Creasy M G. MRT 82_1690A

Jones, C.M. 1982B. Comstaff JV. Interim Report on the Arthur River Area EL5/1963 Part 1 for the Period Ending 30/12/1981. Australian Anglo American Ltd, Creasy M G. MRT 82_1902

Trussell, D.B. 1982. Comstaff JV. Arthur River, 1982 Aeromagnetic Survey Interpretation of an Area West of Waratah. EL5/1963. Australian Anglo American Ltd, Creasy M G. MRT 83_1912 & 83_1911

Pigott, G.F. 1982. Comstaff JV. Annual Report to the Department of Mines, Tasmania for the Period 1 January- 31 December 1982, Summary of Work Completed, in Progress and Proposed for EL5/1963. Australian Anglo American Limited, Creasy M G. MRT 83_1901

Green, N.P. 1983. Comstaff JV (CSB Grid). Stage Report on the South Bischoff Mine Area EL5/1963 Part 2. Australian Anglo American Ltd, Creasy M G. MRT 83_1991

Shaw, R.W.L. 1983. Comstaff JV Report to the Mines Department of Tasmania for the Period 1 January to 30 June 1983; Summary of Work Completed, in Progress and Proposed for EL5/1963. Australian Anglo American Ltd, Creasy M G. MRT 83_1983

Trussell, D.B. 1983A. Comstaff JV. A Test of the Genie EM Method. Australian Anglo American Ltd, Creasy M G. MRT 83_1984A

Trussell, D.B. 1983B. Comstaff JV. Interpretation of Arthur River Area - DIGHEM Survey. Australian Anglo American Ltd, Creasy M G. MRT 85_2413 & 84_2135

Anon. 1983. Comstaff JV DIGHEM III Survey of the East Chester, North Pieman and Arthur River Areas, Tasmania (Relinquished Areas Only). Australian Anglo American Ltd, Creasy M.G., Dighem Ltd. MRT 85_2414 (L)

Levings, J.A. 1983. Comstaff JV. EL5/1963 Final Report on the South Bischoff Prospect (CSB). Area 2. Australian Anglo American Limited, Creasy M G. MRT 84_2136

Levings, J.A. 1984. Comstaff JV EL5/1963 Area 1. Deep Gully Creek Interim Report. Australian Anglo American Limited, Creasy M G. MRT 85_2411

Shaw, R.W.L. 1984. Comstaff JV. Annual Report to the Department of Mines, Tasmania for the Period 1.7.83 to 30.6.84, EL5/1963. Australian Anglo American Limited, Creasy M G. MRT 84_2133

Everett, M.P., Shaw, R.W.L.1985A. Comstaff JV. EL5/1963 Area 1 Arthur River. Final Report on Areas Surrendered, June 1985, Australian Anglo American Ltd, Creasy M G. MRT 85_2383

Everett, M.P., Shaw, R.W.L.1985B. Comstaff JV. EL5/1963 Area 2 Ramsay. Final Report on Areas Surrendered, June 1985, Australian Anglo American Ltd, Creasy M G. MRT 85_2388

Carr, G.R. 1985. Comstaff JV. Sirotope Report to Comstaff Proprietary Limited on the Significance of Lead Isotopic Compositions of Samples from the WOW/CAB Area, Western Tasmania. CSIRO, Creasy M G. MRT 85_2381A

Dronseika, E.V. 1985. EL 34/82 Cleveland Tasmania Annual Report on Exploration to 30th October 1985. Aberfoyle Exploration Pty Ltd & Cleveland Tin Ltd. MRT 85_2500

Anon. 1986. Comstaff J.V. Exploration Licence EL5/1963 N.W. Tasmania. Report for the Year Ended 30th June, 1986. Broken Hill Proprietary Co Ltd, Creasy M G. MRT 86_2571

Cox, R. 1986. An Assessment of the Exploration Potential of the Cleveland Tenements of Aberfoyle Ltd. Aberfoyle Resources Ltd, Billiton Australia, Roy Cox and Associates Pty Ltd. MRT 87_2717A

Anon. 1987. Comstaff J.V. Exploration Licence EL5/1963 N.W. Tasmania. Report for the Year Ended 30th June, 1987. Broken Hill Proprietary Co Ltd, Creasy M G. MRT 87_2690

Randell, J.P. 1987. Luina Joint Venture EL34/1982 & 84M/1984. Progress Report for the Period 1/11/86 to 31/10/87. Aberfoyle Resources Limited, Billiton Australia. MRT 87_2717

Davidson, J.K., Morrison, K.C. 1987. Exploration Licence EL25/1986 - Waratah. Annual Report : Year 1. 29th January, 1987 - 28th January, 1988. Placeco (Australia) Pty Ltd. MRT 88_2761

Anon. 1988. Comstaff JV. Exploration Licence EL5/1963, Final Report on the Relinquished Area : Results of Exploration for 1987-1988 and A Summary of Activities for the Period 1963-1988. BHP Minerals Ltd, Creasy M.G. MRT 88_2815

Ellis, P.D. 1989. Relinquishment Report EL47/1988 Magnet, Tasmania. Placer Exploration Ltd. MRT 90_3070

Hofto, V., Morrison, K.C. 1989. Exploration Licence EL25/1986 - Waratah, Year 2 and Final Report. Placeco (Australia) Pty Ltd. MRT 89_2949

Hungerford, N., Randell, J.P. 1989. EL46/1988 - Waratah, Progress Report on Exploration to 23rd December 1989. Billiton Australia, The Shell Company of Australia Limited, Report 08.4179. MRT 89_3053

Purvis, J.G. 1989. Tasmanian Tin Prospects, Part 1. West Tasmanian Tin Province. Unpublished Report by J.G. Purvis & Associates, March 1989 for Aberfoyle Ltd. MRT 06_5258

Rand, S.W. 1989. Exploration Licence 34/82, Cleveland, Tasmania, Final Report on Exploration to October 1989. Aberfoyle Resources Ltd,, Cleveland Tin Ltd. MRT 89_3029

Seymour, D.B. 1989. Geological Survey Explanatory Report, Geological Atlas 1:50 000 series sheet 36 (8015N) St Valentines. MRT ER8015S0

Wyatt, B. 1990. Interpretation of Regional Aeromagnetic Data from the Waratah - Mt Ramsay Area Tasmania. RGC Exploration Pty Ltd, Renison Ltd (Exploration), Wyatt & Ass. MRT 91_3284A

Baker, W.E. 1990. The application of soil humic substances to soil geochemical exploration. Division of Mines and Mineral Resources Report 1990/03. MRT UR1990_03

Randell, J.P. 1990. EL46/1988 - Waratah. Exploration Relinquishment Report. Billiton Australia, Report 08.4941. MRT 90_3092

Halley, S.W. 1991. EL12/1990 and EL15/1990 Waratah Annual Report 1990/91. RGC Exploration Pty Ltd, Renison Ltd (Exploration). MRT91_3284

Leaman, D.E. 1991. An Interpretation Form of Meredith Granite Waratah Area. EL12/1990, EL15/1990. Leaman Geophysics, RGC Exploration Pty Ltd, Renison Ltd (Exploration). MRT 91_3284B

Halley, S.W. 1992. EL12/1990 and EL15/1990 Waratah. Partial Relinquishment Report for the Period 1990 to 1992. RGC Exploration Pty Ltd, Renison Ltd (Exploration). MRT 92_3357

Halley, S.W. 1992. EL12/1990 and EL15/1990 Waratah Area Annual Report for the Period July 1991 to June 1992. RGC Exploration Pty Ltd, Renison Ltd (Exploration). MRT 92_3363

Halley, S.W. 1993. EL12/1990 and EL15/1990 Waratah Area Annual Report 1993. RGC Exploration Pty Ltd, Renison Ltd (Exploration). MRT 93_3446

Halley, S.W. 1994. EL12/1990 and EL15/1990 Waratah Area Final Report 1994. RGC Exploration Pty Ltd, Renison Ltd (Exploration). MRT 94_3576

Anon. 1994. Comstaff J V. A List of Transparencies from Portions of EL5/1963 Relinquished by Comstaff in the Dundas, Renison and Waratah Areas. Creasy M G, Mineral Resources Tasmania. MRT 94_3587

Poltock, R. 1995. Annual Technical Report to April 1995 EL17/1993 Luina. MPI Gold Pty Ltd. MRT 95_3720

McGunnigle, N.K. 1996. Annual Report 1996, Luina Joint Venture EL17/1993. MPI Gold Pty Ltd, Pasminco Australia Ltd (Exploration) Rep. No. ML475. MRT 96_3851

McGunnigle, N.K. 1996. Annual Report Waratah EL48/1994, 1994-95. Pasminco Australia Ltd (Exploration). MRT 96_3815

McGunnigle, N.K. 1996. Annual Report Period Ending Oct. 1996. Waratah EL48/1994. Pasminco Australia Ltd (Exploration). MRT 96_3953

Weber, G.B. 1997. Annual and Final Report - EL48/1994, Waratah. Pasminco Australia Ltd (Exploration). MRT 98_4109

Basford, P.W., McGunnigle, N.K. 1997. Annual Report - EL17/1993, Luina. JV MPI Gold Pty Ltd, Pasminco Australia Ltd (Exploration). MRT 97_4003

Weber, G.B. 1997. Final Report - Luina EL17/1993 - April 1997-Nov 1997 (Note - Report Submitted Due to Ending of J/V with MPI Gold). Pasminco Australia Ltd (Exploration). MRT 98_4137

Chaku, S. 1998. Final Report on Exploration - EL 17/93, Luina from Jan-Mar 1998. MPI Gold Pty Ltd. MRT 98_4226

Morrison, K.C., Reed, A.R., & Turner, N.J. 2003.Western Tasmanian Regional Minerals Programme - Devonian Granite Aureoles Project. Regional map set and geophysical signatures. Tasmanian Geological Survey Record 2003/13. MRT UR2003_13

Taheri, J. and Bottrill, R.S. 2005. Devonian granites and associated mineralisation in northeast and northwest Tasmania, Tasmanian Geological Survey Record - Excursion Guide. MRT UR2005_03

Turnball, C. 2006. Waratah Project Tasmania EL64/2004. Annual Progress Report 10th August 2005 to 9th August 2006. Unpublished Report Bass Metals Ltd.

Calver, C.R., Green, G.R., Seymour, D.B. 2007. The geology and mineral deposits of Tasmania: a summary (Second Edition). Geological Survey of Tasmania Bulletin No. 72. MRT GSB72_2

Blake, M. 2007. Waratah Project Tasmania EL64/2004. Annual Progress Report 10th August 2006 to 9th August 2007. Unpublished Report Bass Metals Ltd.

Bates, S. 2008. Waratah Project, (Black Bluff Range Group), Tasmania EL64/2004. Annual Progress Report 10th August 2007 to 9th August 2008. Unpublished Report Bass Metals Ltd.

Bates, S. 2009. Waratah Project, (Black Bluff Range Group), Tasmania EL64/2004. Final Report 10th August 2008 to 9th August 2009. Unpublished Report Bass Metals Ltd.

Mount Bischoff Tin Mine

Stillwell, F.L. 1943. Tin Ore from the North Valley Lode, Mount Bischoff, CSIRO Minergraphic Invest.Rep. No.268.

Stillwell, F.L. 1945. Tin Ore from the Greisen Lode, Mount Bischoff, CSIRO Minergraphic Invest.Rep. No.322.

Keid, H.G.W. 1943. Mount Bischoff Tin Mines. Unpublished Report Geol.Sur. Tas. MRT UR1943_003_26

Knight, C.L. 1953. Mount Bischoff Tin Orebody. In Economic Geology of Australia and Papua New Guinea, Aus.IMM Monograph No.5. 1953. Edited by C.L. Knight Vol.1. Metals pp 591-592.

Anderson, D.E., Hopwood, T.P. 1963. The Geology of Mt Bischoff. SPL376 Aberfoyle Tin Development Partnership, Unpublished Report. MRT 63_0352.

Glasson, K.R. 1964. Report on Prospect Authority to Prospect No. 5 AP/AM (EL5/1963) Mount Bischoff with Recommendation for Drilling. Mt Costigan Mines Limited. MRT 64_0367

Solomon, M. 1965. Tin ore deposits of Mount Bischoff. In Geology of Australian Ore Deposits, Eighth Mining and Metallurgical Congress, Aus.IMM. 1965 Edited by J. McAndrew. Vol.1 pp 501 - 502.

Eshuys, E., Glasson, K.R. 1966. Exploration Report on Mt Bischoff Extended, Waratah, Tasmania. Aberfoyle Tin Development Partnership. MRT 66_0426 (L)

Anon. 1970. Comstaff JV. Mt. Bischoff AM7AP/A.M, Diamond Drill Holes 1-5 & 8. (Robinson, H.R. & J.F.L.) Creasy M.G. MRT 70_0708

Anon. 1970. Comstaff JV. Review of 1969-1970 Summer Exploration Programme Exploration Licence EL1/1968, Tasmania. Creasy M G. MRT 70_0709

Chisholm, T., Everett, M.P., Henry, D., Pigott, G.F., Wallis, D. 1970. Comstaff JV. 1970 - 1971 Summer Field Season Report EL5/1963. Australian Anglo American Ltd, Creasy M G. MRT 71_0838

Anon. 1971. Comstaff JV. Drill Hole Logs, Mt Bischoff. Creasy M G, Mines Exploration Pty Ltd. MRT 71_0841

Robison, H.R. 1971. Comstaff JV. AM7AP/AM, An Evaluation of the Ore Reserves at Mt. Bischoff. Australian Anglo American Ltd, Creasy M G. MRT 71_0719

Pirajino, F. 1975 The Geology and Mineralisation of Mt Bischoff. Australian Anglo American Ltd, Creasy M G. MRT 74_1050

Jannink, A. 1979A. Mt Bischoff Tin Prospect (Exploration Area Being Part of EL5/1963) Tasmania. Report on Stage I Programme. CRAE Pty Ltd, Creasy M.G, Metals Ex Ltd. Open File Report MRT 78_1319.

Jannink, A. 1979B. Mt Bischoff Tin Prospect (Exploration Area Being Part of EL5/1963) Tasmania. Stage 2A Programme & Budget (amended). CRAE Pty Ltd, Creasy M.G, Metals Ex Ltd. Open File Report MRT 79_1347

Jannink, A. 1979C. Mt Bischoff Tin Prospect, Exploration Licence EL13/1979, Tasmania. Report on Stage 2A Program. CRAE Pty Ltd, Creasy M.G., Metals Ex Ltd. Open File Report MRT 79_1328 & 79_1347A

Jannink, A. 1980A. Mt Bischoff Tin Prospect, Exploration Licence EL13/1979 Tasmania; Monthly Reports for August to December, 1979. Australian Anglo American Ltd, CRA Exploration Pty Ltd, Metals Exploration Ltd. MRT 80_1414

Jannink, A. 1980B. Mt Bischoff Tin Prospect Exploration Licence EL13/1979 Tasmania, Report on Stage 2B Programme. CRAE Pty Ltd, Creasy M.G., Metals Ex Ltd, Open File Report MRT 80_1498 & 79_1347B

Jannink, A., Motteram, G.M. 1980A. Mt Bischoff Tin Prospect, Exploration Licence 13/1979, Tasmania, Monthly Reports for January to December 1980. Australian Anglo American Ltd, CRA Exploration Pty Ltd, Metals Exploration Ltd. MRT 80_1437

Jannink, A., Motteram, G.M. 1980B. Mt Bischoff Tin Prospect. Exploration Licence 13/1979 and Authority to Prospect AP5/1980, Tasmania. Stage 3A Programme and Budget. Metals Exploration Ltd. MRT 80_1505

Wong, K.Y. 1980. Beneficiation of Mt Bischoff Tin Ores, Stage II. Australian Mineral Development Laboratory, Metals Exploration Ltd. MRT 80_1498A

Motteram, G.M. 1981 Mt Bischoff Tin Prospect, Exploration Licence EL13/1979 and Authority to Prospect AP5/1980, Tasmania. Monthly Reports for January to December 1981. Metals Exploration Ltd. MRT 82_1698

Motteram, G.M. 1982 Mt Bischoff Tin Prospect, Exploration Licence EL13/1979 and Authority to Prospect AP5/1980, Tasmania, Report for Stage 3. CRAE Pty Ltd, Creasy M.G., Metals Ex Ltd. Open File Report MRT 82_1725.

Anon. 1982. Mt Bischoff Tin Project Geological Interpretation and Ore Reserves. Douglas McKenna and Partners Pty Ltd. MRT 88_2825A

Langsford, N.R., Laverty, M.D., Motteram, G.M. 1983. Mt Bischoff Tin Prospect Exploration Licence EL13/1979 and Authority to Prospect AP5/1980, Tasmania, Monthly Reports for January to December, 1982. CRA Exploration Pty Ltd, Metals Exploration Ltd. MRT 83_1890

Anon. 1983. Mount Bischoff Project 43M/1977, AP5/1980, EL13/1979, Feasibility Study for a Mining Operation at a Production Rate Greater Than 100 Tons Per Annum Contained Tin. CRA Exploration Pty Ltd, Creasy M G, Metals Exploration Ltd, Preuss AG Australia Pty Ltd. MRT 83_1956

Motteram, G.M. 1983. Mt Bischoff Tin Prospect, Exploration Licence EL13/1979 and Authority to Prospect AP5/1980, Tasmania; Monthly Reports for January-June 1983. MRT 83_1980

Langsford, N.R., Laverty, M.D., Motteram, G.M. 1983. Mt Bischoff Tin Prospect Exploration Licence 13/1979 and Authority to Prospect AP5/1980, Tasmania, Monthly Reports for January to December, 1982. CRA Exploration Pty Ltd, & Metals Exploration Ltd. MRT 83_1890

Jones, G.G. 1984. Mount Bischoff Joint Venture Tin Project, EL13/1979. Mining Optimisation Study. Metals Exploration Ltd. MRT 84_2177

Anon. 1985. Annual Report on Exploration and Development Activities EL13/1979 - 1984/85. Metals Exploration Limited. MRT 85_2430

Everett, M.P. & Shaw, R.W.L. 1985. Final Report on Areas Surrendered to the Department of Mines Tasmania (June 1985) Exploration Licence EL5/1963 Area 1 Arthur River. Australian Anglo American Ltd, Creasy M G. MRT 85_2883

Simpson, D.C. 1988. Mt Bischoff Exploration Licence EL13/1979, Tasmania, Report for the Period 13/12/86 - 13/12/87. Metals Exploration Ltd. MRT88_2778

Jones, G.G. 1988. Mt Bischoff Project, Re-estimate of Minimum Production Case for the Mining and Treatment of Mt Bischoff DSL Ore. Metals Exploration Ltd. MRT 88_2818

Anon. 1988. Mt Bischoff Tin Prospect, Exploration Licence EL13/1979, Retention Licence Application RL7/1988. Geological Report. Metals Exploration Ltd. MRT 88_2825

Bellairs, P.G. 1988. Mt Bischoff Exploration Licence EL13/1979, Tasmania, Relinquishment Report. Metals Exploration Ltd. MRT 88_2827

Randell, J.P. & Hiungerford, N. 1989. EL46/1988 – Waratah. Progress Report on Exploration to 23/12/1989. Billiton Australia. The Shell Company of Australia Ltd, MRT 89_3053

Randell, J.P. 1990. EL46/1988 - Waratah. Exploration Relinquishment Report. Billiton Australia. MRT 90_3092

The Oonah Mine

Thureau, G. 1884. Report on the Mount Zeehan silver-lead lodes and other deposits. Parliamentary Paper 1888/48. MRT OS_070pdf

Montgomery, A. 1890. Report on the progress of the Mount Zeehan and Mount Dundas silver-lead fields. MRT OS_083

Montgomery, A. 1895. Report on the progress of the mineral fields in the neighbourhood of Zeehan; Viz: Mackintosh River, Mount Black, Mount Read, Mount Dundas, Mount Zeehan, Stanley River, and Mount Heemskirk. MRT OS_118

Montgomery, A. 1896. Report on the Zeehan-Dundas Mineral Fields in February 1896. MRT OS_121

Twelvetrees, W.H. 1900. Report on the mineral districts of Zeehan and neighbourhood. Secretary for Mines Report 1900-1901). MRT OS_163

Waller, G.A. 1904. Report on the Zeehan Silver-Lead Mining Field.
Tasmania Mines Department. MRT OS_224.

Twelvetrees, W.H., Ward, L.K. 1909. Geological examination of the Zeehan field, preliminary statement. Geological Survey Bulletin N0.7. MRT GSB07

Twelvetrees, W.H., Ward, L.K. 1910. The Ore-bodies of the Zeehan Field. Tasmanian Geological Survey Bulletin N0.8. MRT GSB08

Reid, A.M. 1929. The stannite-bearing ores of Oonah and Zeehan-Queen Mines, Zeehan: Tasmania Department of Mines. MRT UR1929_062.

Stillwell, F.L. 1930. Stannite ore from Oonah Mine, Zeehan. Tasmanian Department of Mines Mineralogical Report. MRT UR1930_064_67

Loftus-Hills, C. 1947. List of Reports and Maps on Zeehan Mines 2. MRT 47_0095A

Thomson B.P. 1951. Report on the Oonah Stannite Mine, Zeehan, Tasmania. Mining Lease M11780. Zinc Corporation Ltd. Unpublished Report. MRT 51_0109.

Langron, W.J. 1960. Results of Geophysical Survey Razorback - Grandprize Dundas in EL4/1959.Bureau of Mineral Resources & Rio Tinto Australian Exploration Pty Ltd. MRT 60_0326

King, D.1961. A Statistical and Geological Review of the Zeehan Silver-Lead Mines, West Tasmania EL4/1959. Rio Tinto Australian Exploration Pty Ltd report. MRT 61_0335

Blissett A.H. 1962, Zeehan. Geological Survey Explanatory Report, One Mile Geological Map Series, Sheet 50 (7914S), Zeehan.. Tasmania Dept. of Mines. MRT ER7914S0

Clark, A.B. 1965. Progress Report Special Prospecting Licences 12, 13 and 404. Placer Prospecting Proprietary Limited report. MRT 65_0399

Everard, G., Wellington, H.K. 1966. Concentration Tests - Oonah Mine Ore – Zeehan. Dodson A R, Hodge W J, Placer Prospecting Proprietary Limited, Tasmania Department of Mines. MRT 71_0715A

Austin K.J., James P.L. & Wellington H.K. 1968. R476 - .Concentration Tests on Oonah Mine Ore. Placer Prospecting Pty Ltd. Tasmania Department of Mines Ore Dressing Investigatons. MRT Technical Report TR11_132_141

Pearce S.C. 1971. Report on Exploration Programme Oonah Mine Prospect, Zeehan, Tasmania. Dodson, A.R., Hodge, W.J., & Minops Pty Ltd, Report. MRT 71_0715

Both, R.D., Williams, K.L. 1971. Mineralogy of the Mines and Prospects of the Zeehan Field. Geological Survey of Tasmania Record No.11. MRT GSREC11

Barnes, C.P., 1973. Progress Report & Future Work Programme EL47/1971. Oonah Formation Turair-EM. Cominco Exploration Pty Ltd & Gippsland Minerals NL. Report to the Tasmanian Mines Department. MRT 73_0956

Purvis J.G. 1978. Oonah Tin – Silver Prospect – Zeehan, Tasmania. Unpub Report CRA Exploration Pty Ltd.

Brown, A.V. 1980. Geological traverse along the Hydro-Electric Commissions Pieman Road, from LPD 45.5 km to the Stanley River (LPD 20.2 km). MRT UR1980_33

McKay A.D. 1980. Oonah Prospect – Tasmania. Report on First Stage of Exploration Under the CRAE – Minops JV Agreement. CRA Exploration Pty Ltd, Report No. 10221. MRT 80_1484.

Odell J. 1982. Oonah Prospect – Tasmania. Interim Report on Exploration Under the CRAE – Minops JV Agreement on 35M/1972. CRA Exploration Pty Ltd Report No.11046. MRT 82_1699.
Brown, A.V. 1986. Geology of the Dundas, Mt Lindsay, Mt Youngbuck Region. Tas. Dept. Mines Geol Surv Bull 62. MRT GSB62

Sise, J.R., 1986. Exploration Licence 47/71, Queen Hill Tasmania, Final Report including report on exploration for period January 1985 to November 1986. Aberfoyle Resources Ltd. Report to Tasmanian Mines Department. MRT 86_2606.

Anon. 1987. Supporting Data to Accompany Application for a Retention Licence Over the Moina Wrigglite Skarn. CRA Exploration Pty Ltd. MRT 87_2664

Crossing, D.J.F. 1989. E.L. 42/87, Zeehan Area, Annual Report 1988/89. RGC Exploration Proprietary Limited & Renison Limited (Exploration) report. MRT 89_3014,

Purvis J.G. 1989. Tasmanian Tin Prospects, Part 1. West Tasmanian Tin Province. Unpublished Report by J.G. Purvis & Associates for Aberfoyle Ltd. 127p. MRT 06_5258

Crossing, D. J. F., 1989, EL42/1987 Zeehan Area Annual Report 1988/89: RGC Exploration Pty. Ltd, 85 p., MRT 89_3014

Crossing, D.J.F. 1990. EL42/1987 - Zeehan Area Annual Report 1989/90. RGC Exploration Proprietary Limited & Renison Limited (Exploration) report, MRT 90_3200Wyatt, B. 1990. Interpretation of Aeromagnetic Data from EL42/1987 (Zeehan). RGC Exploration Proprietary Limited & Renison Limited report. MRT 90_3200A

Crossing, D.J.F. 1991. EL42/1987. Incorporating Miming Leases 43M/1985 and 123M1947 - Zeehan Area Annual Report for the Period Oct 1990 to Sept 1991. RGC Exploration Proprietary Limited & Renison Limited (Exploration) report. MRT 91_3309

Findlay, R.H. & Brown, A.V. 1992A. The 10th Legion Thrust, Zeehan district: Distribution, interpretation, regional and economic significance. Geological Survey of Tasmania Report. MRT UR1992_02

Findlay, R. H., and Brown, A. V., 1992B, South Comstock Mine area and the Tenth Legion Thrust, *in* Turner, N. J., ed., Corinna 1:50,000 Geological Map, Field Guide to selected rock exposures, Tasmania Department of Mines Report, p. 3-7. MRT 1992_06,

Crossing, D.J.F. 1992A. EL42/1987 Zeehan Partial Relinquishment Report for the Period 1987 to 1992. Leaman Geophysics, RGC Exploration Proprietary Limited, Renison Limited (Exploration), & Wyatt and Associates. MRT 92_3379

Crossing, D.J.F. 1992B. EL42/1987 Incorporating MLs 43M/1985 and 123M/1974 - Zeehan Area Annual Report for the Period Oct 1991 to Sept 1992. RGC Exploration Proprietary Limited. MRT 92_3386

Halley, S.W., 1993. EL42/1987 Incorporating MLs 43M/1985 and 123M/1974 – Zeehan Area. Annual Report for the period October 1992 to September 1993. RGC Exploration Pty Ltd. Report to the Tasmanian Mines Department. MRT 93_3505

Corlett, S.J. & Halley, S.W. 1995. Tasmanian Base Metals Project EL42/1987 Incorporating MLs 43/85 and 123M/47 Zeehan. RGC Exploration Proprietary Limited report, MRT 95_3731

Corlett, S. J., & Halley, S. W., 1995, Final Report, Tasmanian Base Metals Project, EL42/1987 incorporating MLs 43/85 & 123M/74, Zeehan: RGC Exploration P/L, , MRT 95_3731.

Von Strokirch, T. 1996. Final Report - EL11/1993 Oonah. CRA Exploration Pty Ltd, Open File Report. MRT 96_3947

Von Strokirch, T. 1997. First Annual Report - EL2/1996 - Zeehan 6. Rio Tinto Exploration Pty Ltd report. MRT 97_4035

Newnham, L.A. 1998. Partial Relinquishment Report - EL2/1996 – Zeehan. Allegiance Mining NL & Newnham Exploration and Mining Services report. MRT 98_4195

Newnham, L.A. 2000. Report for 12 month period ending February 2000 - EL2/1996 - Tenth Legion Area. Allegiance Mining NL & Newnham Exploration and Mining Services report. MRT 00_4424

Newnham, L.A. 2002. Relinquishment Report - EL2/1996 - Tenth Legion Area, Tasmania. Allegiance Mining NL & Newnham Exploration and Mining Services report. MRT 02_4652

McLatchie, L. 2003. First and Final Report for EL7/2002 The Stannite Lode, - Oonah Mine - NW Tasmania. Central West Gold NL, and Mount Conquerer Minerals NL. Open File Report MRT 03_4935

Green, G. R. 2005. *Exploration and development opportunities in Tasmania*. AJM Tasmanian Mineral Exploration and Investment Conference. Hobart,7-8 November 2005.Seymour, D.B., Green G.R., and Calver, C.R. 2006. The geology and mineral deposits of Tasmania, Geological Survey Bulletin 72. MRT GSB72

Turnball, C. 2006. Oonah Project Tasmania EL63/2004. Annual Progress Report 8/8/2005 to 7/8/2006. Bass Metals Ltd report.

Turnball, C. 2007. Oonah Project Tasmania EL63/2004. Annual Progress Report 8/8/2006 to 7/8/2007. Bass Metals Ltd report.

Bates, S. 2008. Oonah Project Tasmania EL63/2004. Annual Progress Report 8/8/2007 to 7/8/2008. Bass Metals Ltd report.

Murphy, T. 2009. Oonah Project Tasmania EL63/2004. Annual Progress Report 8/8/2008 to 7/8/2009. Bass Metals Ltd report.

Hermann, W. 2009. Exploration Potential of Oonah Mine and EL63/2004. Report by Walter Hernann Geoscience Pty Ltd. 24Th July 2009.

Barnes, G. 2011. Media Announcement 5th January 2011 – Tasmanian Project Joint Venture
Formed. Clancy Exploration Ltd.

Drummond, A.J. 2011. Exchange Release 5th January 2011 - TNT Acquires New Tasmanian Projects. Minemakers Ltd.

APPENDIX B CAPEX AND OPEX REVIEW SUMMARY SHEETS

The following tables are provided as very preliminary outlines to demonstrate the additional capital and operating costs associated with flotation stages and tungsten stages in the process flow sheet.

CAPITAL COST OUTLINE (+,-25%)	Concept Study	Full Plant	Gravity Only
AREA 200 - PLANT SITE BULK EARTHWORKS	333,200	400,000	300,000
AREA 310 - CRUSHING	6,375,000	4,500,000	4,500,000
AREA 320 - ORE STORAGE		1,600,000	1,600,000
AREA 325 - ORE SORTING		3,000,000	3,000,000
AREA 330 - GRINDING AND CLASSIFICATION	11,106,796	4,100,000	4,100,000
AREA 331 - SULPHIDE FLOTATION		3,000,000	3,000,000
AREA 350 - COARSE GRAVITY	4,784,659	1,100,000	1,100,000
AREA 352 - GRAVITY REGRIND & CLASSIFICATION		2,250,000	2,250,000
AREA 353 - FINE GRAVITY		900,000	900,000
AREA 354 - DRESSING FLOTATION		1,500,000	
AREA 356 - TIN & TUNGSTEN FLOTATION		6,800,000	
AREA 358 - CONCENTRATE HANDLING AND FILTRATION		2,500,000	2,000,000
AREA 360 - REAGENTS		2,600,000	900,000
AREA 370 - POWER AND RETICULATION		8,000,000	5,500,000
AREA 390 - WATER SUPPLY	828,300	650,000	400,000
AREA 400 - TAILINGS	3,287,626	1,100,000	800,000
AREA 401 - TAILINGS STORAGE	700,000	2,500,000	1,000,000
AREA 411 - FUEL FARM	264,000	200,000	200,000
AREA 420 - COMPRESSED AIR	174,000	300,000	120,000
AREA 490 - SITE BUILDINGS	1,328,400	400,000	300,000
AREA 495 - MOBILE PLANT & EQUIPMENT	655,200	1,000,000	850,000
AREA 499 - PLANT PIPING		3,500,000	2,400,000
AREA 804 - CONSTRUCTION EQUIPMENT	1,768,800	1,800,000	1,100,000
Total Direct Costs	31,605,981	53,700,000	36,320,000
Indirect Costs			
AREA 500 - ENGINEERING	6,219,523	11,000,000	7,650,000
SITE SEWAGE & MAAGEMENT HOUSING	1,248,000		
AREA 510 - COMMISSIONING		750,000	500,000
AREA 600 - PRELIMINARIES AND GENERAL	1,350,000	2,100,000	1,500,000
AREA 700 - OWNERS COSTS	1,656,000	1,200,000	1,000,000
Total Indirect Costs	10,473,523	15,050,000	10,650,000
TOTAL CAPITAL ESTIMATE	42,079,504	68,750,000	46,970,000

Table 8 Capital Cost Comparison

OPERATING COST OUTLINE (+,-25%)	Concept Study	Full Plant	Gravity Only
Expenditure [$]			
AREA 310 - CRUSHING & SCREENING		2.50	2.50
AREA 320 - FINE ORE STORAGE		0.30	0.30
AREA 325 -ORE SORTING		1.50	1.50
AREA 330 - GRINDING AND CLASSIFICATION		4.00	4.00
AREA 331 - SULPHIDE FLOAT & REGRIND		3.50	3.50
AREA 350 - COARSE GRAVITY		0.20	0.20
AREA 351 - SULPHIDE DRESSING FLOTATION		0.25	
AREA 353 - COARSE GRAVITY REGRIND & CLASSIFICATION		1.20	1.20
AREA 354 - FINE GRAVITY		0.30	0.30
AREA 355 - FLOAT DESLIME		0.25	
AREA 356 - FLOTATION (TIN, TUNGSTEN & DRESSING)		4.10	
AREA 360 - CONCENTRATE HANDLING		1.20	1.20
AREA 380 - REAGENTS		0.50	0.20
AREA 390 - WATER SUPPLY		0.15	0.10
AREA 400 - TAILINGS		0.40	0.30
AREA 420 - AIR SERVICES		0.20	0.15
AREA 499 - PLANT PIPING		0.20	0.10
AREA 410 - POWER AND RETICULATION		0.40	0.30
SUBTOTAL	16.31	21.15	15.85
Workshop		0.30	0.20
Laboratory		0.35	0.20
Administration	1.58	1.00	0.70
Management & Services		1.20	0.90
Production Labour		4.50	2.50
Maintenance Labour	1.43	2.50	1.80
Total	19.32	31.00	22.15
$/Tonne Treated	9,660,000	15,500,000	11,075,000

Table 9 Operating Cost Comparison

APPENDIX C MASS BALANCES FOR PILOT TESTS (GREAT PYRAMID)

Year	Source	Sample	Head Grade %Sn	Concentrate Grade %Sn	Tin Recovery %	Concentrate Mass %	Test Conditions/Flowsheet	Tin Distribution
1945	DMT		0.64	22	78.6		Grind to -420 µm, gravity	
			0.64	27	80.6		Grind to -250 µm, gravity	
			0.64	27	80.2		Grind to -180 µm, gravity	
			0.64	11	71.8		Flotation	
			0.64	6.4	81.8		Flotation	
1963	DMT	550 kg	2.17	61.6	79.26		Grind, gravity	
			2.17	59.7	84.55		Included regrind of +250 µm tail	
			2.17	59	87.05		Included regrind of +150 µm tail	
			0.76	50.5	73.81		Grind, gravity	
			0.76	48.9	77.25		Included regrind of +250 µm tail	
			0.76	46.9	79.76		Included regrind of +150 µm tail	
			0.47	46.9	60.59		Grind, gravity	
			0.47	43.8	66.61		Included regrind of +250 µm tail	
			0.47	41.3	71.37		Included regrind of +150 µm tail	
1971	Aberfoyle	73 kg	0.296	47.6	63.5		Gravity, magnetic separation	32% -850 µm +500 µm
		drill chips						33% -500 µm +300 µm
1979	Aberfoyle		0.63	28.9	86.0	1.9	Sinks HLS @ 2.96 sg -600 µm +45 µm	
			0.60	38.13	63.7	1.0	Gravity	
			0.19	5.6	68.7	2.3	Sinks HLS @ 2.96 sg -600 µm +45 µm	
			0.20	7.9	13.7	0.34	Gravity	
1983	DMT	50 kg Pilot	0.22	52.9	54.5			54% -300 µm +125 µm
	for Shell	546.7 kg	0.22	1.3	73		Sinks HLS @ 2.95 sg	47% -300 µm +75 µm
1984	MDL		0.414	48	43		Hydrosizer, Spiral, Table, Mag Sepn	
	for Shell						-400 µm grind	

DMT 1983 (from Ruxton)

	STREAM	MASS %	ASSAY %Sn	Metal Units	Tin Distribution %
	Feed	100	0.22	22	100
	Cyclone Overflow -5µm	17.78	0.08	1.4	6.5
	Hydrosizer Overflow	27.33	0.19	5.2	23.6
	Gravity Feed (combined)	54.89	0.28	15.4	69.9
	Gravity Concentrate	1.2	11.6	13.9	63.3
	Gravity Middlings	4.71	0.16	0.8	3.4
	Middlings R/G Concentrate	0.08	2.60	0.2	0.9
	Middlings Gravity Tail	4.63	0.12	0.5	2.5
	Primary Gravity Tail	48.98	0.015	0.71	3.2
1.28	Total Gravity Tail (mids + prim)	53.61	0.023	1.26	5.7
	Total Gravity Concentrate	1.28	11.04	14.1	64.2
	Sulphide Flotation Concentrate	0.01	2.08	0.02	0.1
1.03	Magnetic Separation Magnetics	0.95	1.185	1.1	5.1
	Magnetics Mids	0.08	3.57	0.29	1.3
	Total Tailing	99.76	0.09	9.30	42.3
	Final Concentrate	0.24	52.9	12.7	57.7
		0.32	42.2	13.5	61.4
		100		22.00	100.0

MDL 1984 (from Hall & Carter, 1986)

	STREAM	MASS %	ASSAY %Sn	Metal Units	Tin Distribution %
	Feed	100	0.385	38.5	100
	Cyclone Overflow	22.78	0.286	6.5	16.9
	Grind Circuit Product	77.22	0.414	32.0	83.1
	Hydrosizer Slimes	28.88	0.22	6.4	16.5
	Medium Gravity Feed	17.93	0.31	5.6	14.4
	Medium Spiral Middlings	3.4	0.22	0.7	1.9
	Medium Spiral Tail	12.65	0.075	0.9	2.5
	Medium Table Tail	1.6	0.18	0.3	0.7
	Medium Table Middlings	0.17	20.80	3.5	9.2
assay = 42.36 (6.5%)	Medium Table Concentrate	0.11	0.341	0.04	0.1
assayed = 0.51 (47.3%)	Coarse Gravity Feed	30.41	0.66	20.1	52.1
	Coarse Spiral Middlings	4.49	0.34	1.5	4.0
	Coarse Spiral Tail	23.67	0.11	2.6	6.8
	Coarse Table Tail	1.707	0.28	0.5	1.2
	Coarse Table Middlings	0.42	17.50	7.4	19.1
assay = 47.92 (15.65%)	Coarse Table Concentrate	0.123	65.97	8.11	21.1
	Total Table Concentrate	0.233	35.0	8.2	21.2
	Assume Medium Table Con	0.11	42.36	4.66	12.1
	Assume Coarse Table Con	0.123	47.92	5.89	15.3
	Medium Magnetics (Tail)	0.0093	5.9	0.05	0.14
Assay = 49.21	Medium Non Magnetics (CONC)	0.1137	51.36	5.84	15.17
	Coarse Magnetics (Tail)	0.0116	5.5	0.064	0.17
Assay = 52.29	Coarse Non Magnetics (CONC)	0.1114	52.34	5.83	15.14
	Total Concentrate	0.2251	51.84	11.67	30.31
	MDL (GRES Calculated from assay)	0.17	69.1	11.75	30.51
	MDL Table Balance	<0.2	69.1		20.27
	Combined Middlings	8.48	1.55	13.2	34.2