

Blythe Project, Northern Tasmania

Final Report for EL 37/2006 (“Riana”)

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1.0 Introduction

1.1 Tenement Details

The licence is one of a group of 7 licences held by either Red River Resources Ltd or Iron Mountain Mining Ltd and managed by Iron Mountain Mining Ltd as part of the Blythe Joint Venture.

Exploration Licence EL 37/2006 is held in the name of Red River Resources Ltd. It covers an area of 57 km² in northern Tasmania, centred approximately 15 km south south east of Burnie (see **Figure 1**). The tenement is known as *Riana*. This report details exploration for the duration of the tenement being held by Red River Resources Ltd for the period February 2007 to March 2010. The exploration license was initially granted on 26th February 2007.

Figure 1 on the next page shows the Blythe Summary Map indicating all tenement areas in the Blythe Joint Venture Program. The tenement is situated on the north eastern margins of the Housetop Granite batholith which was intruded in the Late Devonian.

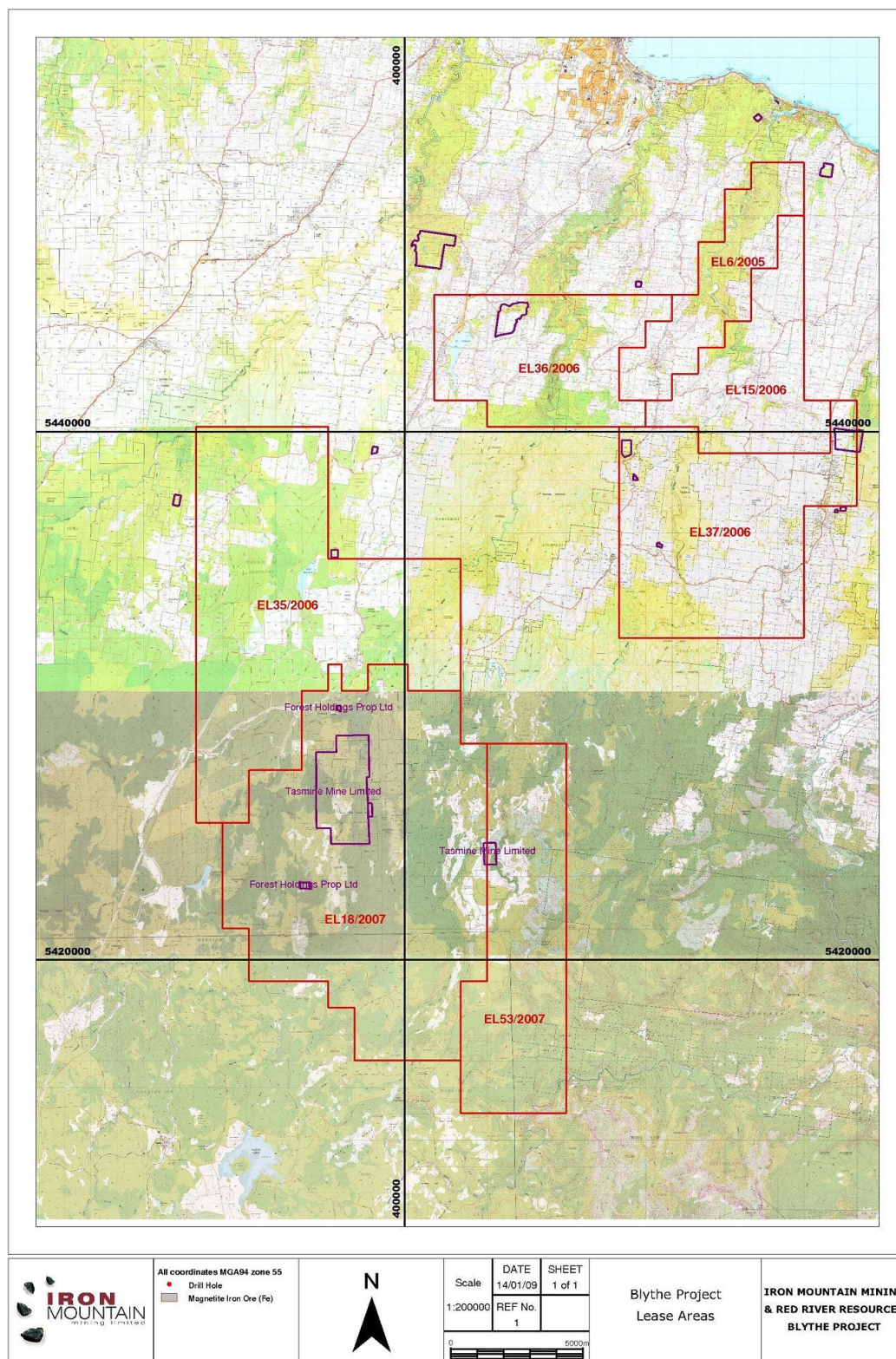


Figure 1 – Blythe Summary Map

1.2 Exploration Rationale

The focus of exploration in the tenement is direct shipping grade iron ore in the form of magnetite. This occurs within skarn bodies adjacent to the Housetop Granite.

1.3 Geology

The regional geological setting comprises Proterozoic aged Burnie Formation shales and quartzites that are folded about north-easterly axes and generally dip steeply to the southeast. The overlying Proterozoic Oonah Formation forms an unconformity to the east and consists of 100 m of haematitic and micaceous siliceous siltstones which have shallower dips of about 40° south east. This unit is overlain to the east by a steeper south-easterly dipping sequence of conglomerates, sandstones and pebbly limestones, which correlate lithologically with the Cambrian to early Ordovician Denison and Dial Groups. During the Tertiary, the region was almost completely covered by basalt flows, forming a plateau that was subsequently eroded by rivers that re-exposed the older sediments and associated iron deposits.

To the south-east, Upper Devonian Housetop granite outcrops as a medium to coarse grained adamellite.

Contact metamorphism of the older sediments during emplacement of the granite resulted in the formation of skarn deposits.

Overlying the Burnie Formation are the Oonah Formation siltstones. They form a narrow sequence which trends south west to north east from Cuprona to Natone. To the south east and extending into this tenement are sandstones and conglomerates also from the Oonah Formation. Other tenements in the region are covered by Tertiary basalt flows.

2.0 Previous Exploration

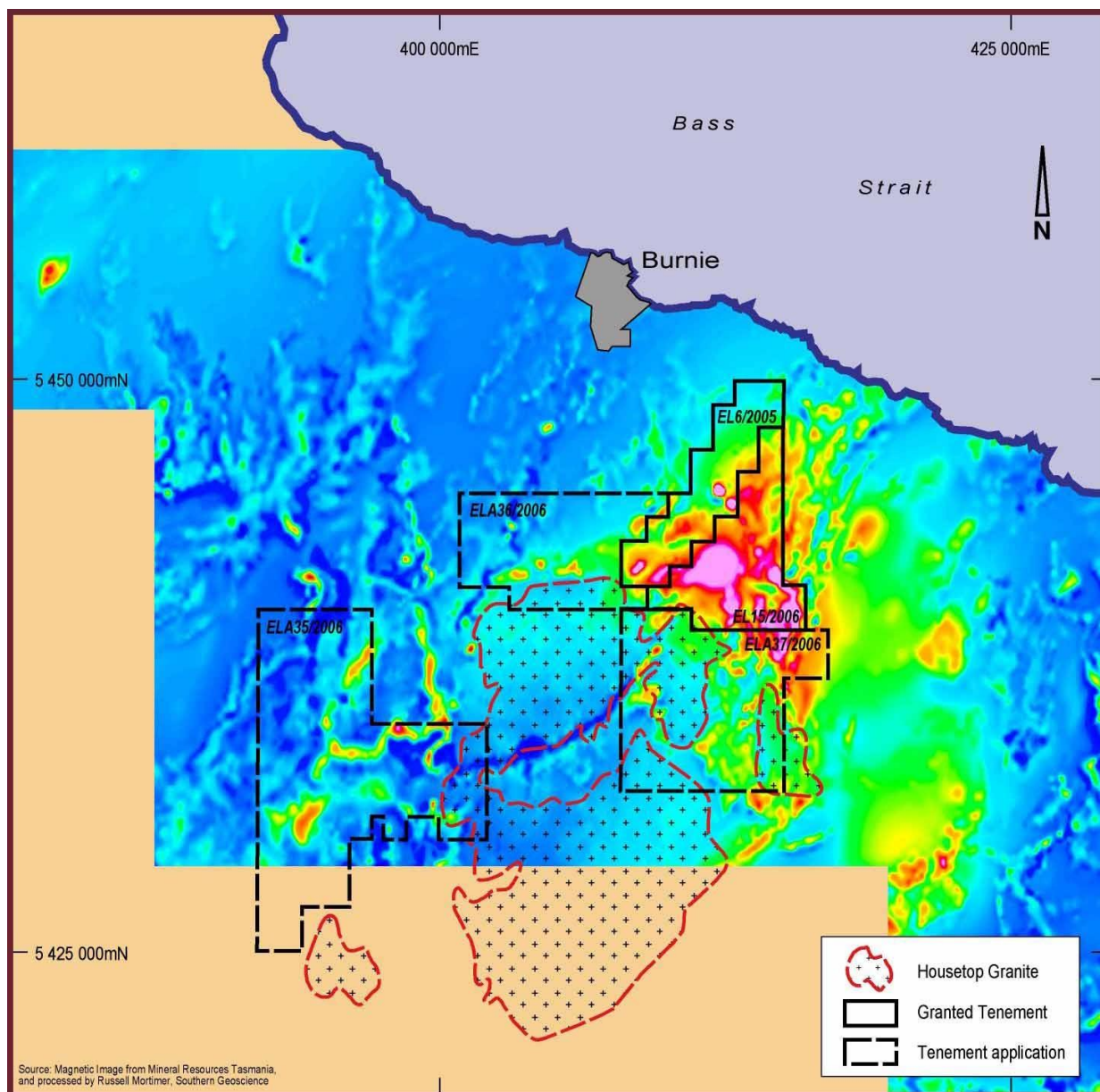
The first mining lease in the area was held in 1891. Appendix 1 is a list of company reports for work undertaken within the Blythe Joint Venture area. It is based on this data that exploration is currently focused on magnetite skarn bodies as a source of direct shipping grade iron ore.

3.0 Work Program – Exploration completed during the report period

During the period of tenure work on this tenement has involved general reconnaissance, research of historical data, and compilation of aeromagnetic data.

The Blythe Joint Venture program incorporates seven tenements within which exploration work such as drilling and ground magnetic investigations have been completed. The details of this work are given in the relevant tenement reports. In this lease no work of this nature has been carried out during the reporting period. However, the results from the other joint venture tenements were meant to establish targets for future work. Comparison of these exploration data to the geology of this tenement has failed to delineate valid exploration targets and, for this reason, this permit is now being relinquished.

Figure 2 on the next page shows the regional aeromagnetics. A magnetic high clearly occupies a large proportion of the *Camena* tenement, EL 15/2006, and overlaps with the *Riana* tenement, particularly in the northern section.



BLYTHE PROJECT, NORTHERN TASMANIAN, REGIONAL AEROMAGNETICS

Figure 2 – Blythe Regional Aeromagnetics

4.0 Geodetic Datum

The Geodetic Datum for the project is GDA 94.

5.0 Environment

There were no investigations performed in the tenement area which caused any environmental impact, and thus no rehabilitation was required during this reporting period.

6.0 Discussion of Results and Conclusions

The reviews of previous company reports indicate that there are magnetite rich skarn deposits at the Housetop Granite contact. These potentially contain large amounts of direct shipping grade magnetite.

As stated in section 3.0 *Work Program*, the work carried out during the reporting period did not constitute any specific geological investigations, therefore there are no quantitative results as such. However, it is proposed that analysis of results from drilling programs and ground magnetic investigations in adjacent lease areas will yield prospective targets in *Riana* for the forthcoming year. There are also magnetic anomalies observed in previous reports which require analysis. Thus, proposed future exploration work involves drilling and ground magnetic investigations similar to those conducted in the other tenements this year.

7.0 Expenditure

The expenditure for the second permit year was comprised as follows:

Geology	\$12, 196
Geochemistry	\$0
Geophysics *	\$12, 196
Remote Sensing	\$0
Gridding	\$0
Drilling *	\$101, 950
Land Access	\$0
Rehabilitation	\$0
Feasibility Study	\$1, 107
Other	\$3, 224
Administration	\$10,365
Total Expenditure to Date	\$141, 038

* Note that some costs have been allocated to drilling and geophysics. This is because the leases are all considered as one project for the purposes of project management. Costs are therefore not always specific to each lease but rather split over the area as a whole.

APPENDIX 1 – COMPANY REPORTS – PREVIOUS EXPLORATION

Report	90_3199	
Date		1/10/1990
Authors(s)	Anon	
Title	Parts A and B, Tasmania Mines Limited Retention Licence Application Exploration Licence 17/68	
Company(s)	Tasmania Mines Limited, Tasmania Mines NL	
Tenement(s)	EL17/1968	
Physical Description	1 volumes 19PP, 2APPX, 1 FIG, 10 PLANS,	
Digital Media		
Other Ref.		
Map (250K)	SK55-3 BURNIE	
Map (50/100K)	80151 Burnie	
Geographic	Hampshire, Loudwater Creek, Wollastonite Creek	
Activities	Analysis, Auger/Test pits, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Logs, Mine/Deposit, Mineral Process., Misc and Fuels, Ore Reserves, Percussion, Rock-chip, Surface mapping	
Minerals	Magnetite, Scheelite, Wollastonite	
Deposits	Hampshire, Kara	
Keywords	Skarn	
Annotation	The report provides a comprehensive account of work on the Hampshire magnetite skarn and on the thermal metamorphic wollastonite deposits at Wollastonite Creek. It also reviews the potential scheelite reserves within the RL application area and gives a commodity review of wollastonite.	

Report	82_1828	
Date		1/10/1982
Authors(s)	Whitehead, C.H.	
Title	Summary Report of Completed Work Programme, E.L. 17/68 and C.L. 105M/77, Twelve Month Period, November 4th 1981-November 3rd 1982.	
Company(s)	McIntyre Mines (Australia) Proprietary Limited, Tasminex NL	
Tenement(s)	105M/1977, EL17/1968	
Physical Description	19 volumes VOL 1 = 10PP, 1 PLAN; VOL 2 = 4PP, 1 PLAN;	
Digital Media		
Other Ref.		
Map (250K)	SK55-3 BURNIE	
Map (50/100K)	80152 Loongana	
Geographic	Emu River, Hampshire, Limestone Creek, Old Park River, Valentines Creek	
Activities	Analysis, Diamond, Drilling, Environment, Geochemistry, Geology, Geophysics, Gnd magnetic, Logs, Metallic minerals, Mineral Process., Misc and Fuels, Ore Reserves, Petrology, Surface mapping, Water	

Minerals	Iron, Magnetite, Scheelite, Tungsten	
Deposits	Bobs Bonanza, Hampshire, Kara, Lohreys	
Keywords	Felsic Volcanics, Gordon Limestone(S), Housetop Granite(S), Skarn	
Annotation	Infill drilling at Kara North 266, Kara No. 1 south and Kara No. 1 main increased geological reserves of fresh and partially weathered ore with open pit mining potential. Exploration drilling over magnetic anomalies for suspected subsurface skarns is successful to date and is continuing. Further geological mapping, geochemistry, geophysics and drilling is recommended.	
Report	81_1625	
Date		1/11/1981
Authors(s)	Whitehead, C.H.	
Title	Summary Report of Completed Work Programme Exploration Licence 17/68 and Consolidated Lease 105M/77 Period May 4th 1981 to November 3rd 1981.	
Company(s)	McIntyre Mines (Australia) Proprietary Limited, Tasminex NL	
Tenement(s)	105M/1977, EL17/1968	
Physical Description	3 volumes 18PP, 2 ATTACHMENTS, 7 APPX, 8 PLANS,	
Digital Media		
Other Ref.		
Map (250K)	SK55-3 BURNIE	
Map (50/100K)	80152 Loongana	
Geographic	Hampshire, St Valentines Peak	
Activities	Analysis, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Logs, Metallic minerals, Mineral Process., Mineral/Gossan, Mining, Misc and Fuels, Ore Reserves, Petrology, Rock-chip, Soil (A,B,C horiz), Stream sediment, Surface mapping	
Minerals	Cassiterite, Fluorine, Fluorite, Iron, Magnetite, Scheelite, Silver, Tin, Tungsten	
Deposits	Hampshire, Kara	
Keywords	Gordon Limestone(S), Housetop Granite(S), Skarn	
Annotation	Exploration for scheelite bearing skarns is continuing in the outlying sections of the E.L.. A pre-development program has commenced, the first phase of which includes extensive infill diamond drilling and metallurgical studies aimed at increasing known reserves of recoverable scheelite at the main Kara tungsten bearing skarn zones.	
Report	88_2764	
Date		1/11/1987
Authors(s)	Whitehead, C.H.	
Title	Exploration Licence 17/68, Annual Report, November 4, 1986 - November 3, 1987	
Company(s)	Tasmania Mines Limited, Tasmania Mines NL	
Tenement(s)	EL17/1968	

Physical Description	1 volumes 12PP, 15 APPX, 1 FIG, 6 PLANS,	
Digital Media		
Other Ref.		
Map (250K)	SK55-3 BURNIE	
Map (50/100K)	80152 Loongana	
Geographic	Hampshire, Wollastonite Creek	
Activities	Analysis, Bed-rock, Diamond, Drilling, Geochemistry, Geology, Geophysics, Indust. Minerals, Metallic minerals, Mine/Deposit, Mineral Process., Misc and Fuels, Petrology, Rock-chip, Surface mapping	
Minerals	Gold, Iron, Magnetite, Scheelite, Tungsten, Wollastonite	
Deposits	Kara	
Keywords	Gordon Limestone(S), Replacement Mineralisation, Skarn	
Annotation	A summary of ongoing exploration for tungsten and recent evaluation of gold potential on the licence. Wollastonite occurrences and beneficiation properties are investigated.	
Report	82_1794	
Date		1/08/1982
Authors(s)	Whitehead, C.H.	
Title	Exploration Licence 17/68 and Consolidated Lease 105M/77, Quarterly Report for the Period May 4th 1982 to August 3rd 1982	
Company(s)	McIntyre Mines (Australia) Proprietary Limited, Tasminex NL	
Tenement(s)	105M/1977, EL17/1968	
Physical Description	1 volumes 5PP, 1 APPX, 1 PLAN,	
Digital Media		
Other Ref.		
Map (250K)	SK55-3 BURNIE	
Map (50/100K)	80152 Loongana	
Geographic	Emu River, Hampshire, Horizontal Creek, Loudwater Creek, St Valentines Peak	
Activities	Analysis, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Metallic minerals, Stream sediment, Surface mapping	
Minerals	Iron, Magnetite, Scheelite, Tungsten	
Deposits	Kara	
Keywords	Gordon Limestone(S), Housetop Granite(S), Skarn	
Annotation	Engineering, production, economic and metallurgical studies are being completed. Infill and exploratory drilling to investigate possible mineralisation associated with suspected buried subsurface skarns is continuing. A ground magnetic survey indicated extensions of the Hampshire magnetite skarn in a northerly direction beneath shallow basalt cover.	

Report Date	82_1878	1/09/1982
Authors(s)	Lawton, J.J.	
Title	E.L. 4/77 - Highclere. Progress Report on Exploration During the Period March 1980 - August 1982.	
Company(s)	Comalco Limited, The Shell Company of Australia Limited	
Tenement(s)	EL4/1977	
Physical Description	1 volumes 12PP, 2 APPX, 17 FIG, 11 PLANS,	
Digital Media		
Other Ref.	08-1069	
Map (250K)	SK55-3 BURNIE	
Map (50/100K)	80151 Burnie, 80152 Loongana, 80153 Waratah	
Geographic	Guide River, Highclere, St Valentines Peak	
Activities	Air electromag, Air magnetic, Air radiometric, Analysis, Diamond, Drilling, EIP/MIP, Geochemistry, Geology, Geophysics, Gnd electromag, Gnd magnetic, Logs, Metallic minerals, Misc and Fuels, Percussion, Petrology, Resistivity, Soil (A,B,C horiz), Surface mapping, Well-logging	
Minerals	Iron, Magnetite, Pyrrhotite, Tin, Tungsten	
Deposits	Buckby, Hampshire Iron	
Keywords	Burnie Formation(S), Dundas Group(Sc), Gravity Modelling, Housetop Granite(S), Max-Min-EM, Replacement Mineralisation, Skarn, Tertiary Basalt, Ultramafics	
Annotation	A summary of tin-tungsten exploration adjacent to the western margin of the Housetop Granite. It is considered unlikely that magnetite skarn of significant tonnage exists beneath Tertiary basalt cover on the western margin of the granite within the licence. An INPUT survey, aimed at locating conductive massive sulphide mineralisation has delineated ten anomalies which are currently being followed up.	
Report Date	82_1820	1/07/1982
Authors(s)	Ruxton, P.A.	
Title	E.L. 8/77 - Riana, Progress Report on Exploration During the Period 1/8/81 to 1/7/82.	
Company(s)	Commonwealth Aluminium Corporation Limited, The Shell Company of Australia Limited	
Tenement(s)	EL8/1977	
Physical Description	2 volumes 11PP, 9 APPX, 10 FIG, 34 PLANS,	
Digital Media		
Other Ref.	08-1064	
Map (250K)	SK55-5 QUEENSTOWN	
Map (50/100K)	80151 Burnie, 80152 Loongana, 81153 Wilmot, 81154 Ulverstone	
Geographic	Camena, Cuprona, Laurel Creek, Loyetea, Midgleys Falls, Natone, Penguin, Preston, Riana, Stotts Road	

Activities	Air electromag, Air magnetic, Analysis, Diamond, Drilling, EIP/MIP, Geochemistry, Geology, Geophysics, Gnd electromag, Gnd magnetic, Logs, Metallic minerals, Misc and Fuels, Percussion, Petrology, Resistivity, SP/AP/EP, Soil (A,B,C horiz), Stream sediment, Surface mapping, Well-logging	
Minerals	Cassiterite, Pyrite, Pyrrhotite, Tin, Tungsten	
Deposits	Blythe R, Copper King, Cranes, Hoopers, Neptune, Rutherford	
Keywords	Burnie Formation(S), Dolomite, Duricrust, Ferricrete, Gordon Limestone(S), Greisen, Husetop Granite(S), INPUT-EM, Max-Min-EM, Metasomatism, SIROTEM, Skarn, Ultramafics, VLF-EM	
Annotation	Several aeromagnetic and aeroelectromagnetic anomalies will be followed up with ground magnetics and EM, soil geochemistry and IP surveys in the most favourable zones. Exploration will continue at Natone to define targets for Sn and W mineralisation north of the Husetop Granite	
Report	69_0553	
Date		1/04/1969
Authors(s)	Hughes, T.D.	
Title	Natone Area - EL 14/68 and EL 13/68	
Company(s)	Hinkley D W, McDonald E H	
Tenement(s)	EL13/1968, EL14/1968	
Physical Description	1 volumes 4PP, 1 PLAN,	
Digital Media		
Other Ref.		
Map (250K)	SK55-3 BURNIE	
Map (50/100K)	80151 Burnie	
Geographic	Blythe River, Burnie, Natone	
Activities	Diamond, Drilling	
Minerals	Hematite, Iron, Magnetite, Pyrrhotite	
Deposits	Natone	
Keywords	Fault Mineralisation, Rocky Cape Region(S)	
Annotation	Drilling in a geophysically anomalous area has commenced, but is hampered by wet conditions.	
Report	84_2085	
Date		1/12/1983
Authors(s)	Anon	
Title	Exploration Licence 23/79, Wynyard, Tasmania Annual Report for Year Ended 1st December, 1983	
Company(s)	Broken Hill Proprietary Company Limited	
Tenement(s)	EL23/1979	
Physical Description	1 volumes 10PP, 6 APPX, 9 FIG, 2 TABLES,	

Digital Media	SK55-3 BURNIE	
Other Ref.		
Map (250K)	80153 Waratah, 80154 Yolla, 80163 Wynyard	
Map (50/100K)	Calder, Cam River, Hellyer River, Wynyard	
Geographic Activities	Diamond, Drilling, Geochemistry, Geophysics, Logs, Metallic minerals, Misc and Fuels, Petrology, Physical properties, Rock-chip, Stream sediment	
Minerals	Tin	
Deposits		
Keywords	Arthur Lineament, Burnie Formation(S), Parmeener Supergroup(S), Tertiary Basalt	
Annotation	Two targets, located from aeromagnetics, were drilled through the Tertiary sequence into basement but no anomalies were detected.	
Report	84_2305	
Date		1/12/1984
Authors(s)	Whitehead, C.H.	
Title	Exploration Licence 17/68 and C.L. 105M/77 Completed Work Program and Exploration Expenditures Annual Report, Period November 4th 1983 - November 3rd 1984	
Company(s)	McIntyre Mines (Australia) Proprietary Limited, Tasminex NL	
Tenement(s)	105M/1977, EL17/1968	
Physical Description	1 volumes 5PP, 6 APPX, 3 PLANS,	
Digital Media		
Other Ref.		
Map (250K)	SK55-3 BURNIE	
Map (50/100K)	80152 Loongana	
Geographic Activities	Hampshire	
Minerals	Analysis, Diamond, Drilling, Feasibility Study, Geology, Geophysics, Gnd magnetic, Logs, Metallic minerals, Mineral Process., Mining, Misc and Fuels, Ore Reserves, Surface mapping	
Deposits	Iron, Magnetite, Scheelite, Tungsten	
Keywords	Kara	
Annotation	Gordon Limestone(S), Housetop Granite(S), Replacement Mineralisation, Skarn	
	Work during the year consisted of surface exploration and diamond drilling activities in the outside sections of the E.L. and detailed investigations (mine planning, economic, etc) of the main Kara WO3 bearing skarns	
Report	90_3199	
Date		1/10/1990
Authors(s)	Anon	
Title	Parts A and B, Tasmania Mines Limited Retention Licence Application Exploration Licence 17/68	

Company(s)	Tasmania Mines Limited, Tasmania Mines NL
Tenement(s)	EL17/1968
Physical Description	1 volumes 19PP, 2APPX, 1 FIG, 10 PLANS,
Digital Media	
Other Ref.	
Map (250K)	SK55-3 BURNIE
Map (50/100K)	80151 Burnie
Geographic	Hampshire, Loudwater Creek, Wollastonite Creek
Activities	Analysis, Auger/Test pits, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Logs, Mine/Deposit, Mineral Process., Misc and Fuels, Ore Reserves, Percussion, Rock-chip, Surface mapping
Minerals	Magnetite, Scheelite, Wollastonite
Deposits	Hampshire, Kara
Keywords	Skarn
Annotation	The report provides a comprehensive account of work on the Hampshire magnetite skarn and on the thermal metamorphic wollastonite deposits at Wollastonite Creek. It also reviews the potential scheelite reserves within the RL application area and gives a commodity review of wollastonite.
Report	84_2305
Date	1/12/1984
Authors(s)	Whitehead, C.H.
Title	Exploration Licence 17/68 and C.L. 105M/77 Completed Work Program and Exploration Expenditures Annual Report, Period November 4th 1983 - November 3rd 1984
Company(s)	McIntyre Mines (Australia) Proprietary Limited, Tasminex NL
Tenement(s)	105M/1977, EL17/1968
Physical Description	1 volumes 5PP, 6 APPX, 3 PLANS,
Digital Media	
Other Ref.	
Map (250K)	SK55-3 BURNIE
Map (50/100K)	80152 Loongana
Geographic	Hampshire
Activities	Analysis, Diamond, Drilling, Feasibility Study, Geology, Geophysics, Gnd magnetic, Logs, Metallic minerals, Mineral Process., Mining, Misc and Fuels, Ore Reserves, Surface mapping
Minerals	Iron, Magnetite, Scheelite, Tungsten
Deposits	Kara
Keywords	Gordon Limestone(S), Housetop Granite(S), Replacement Mineralisation, Skarn
Annotation	Work during the year consisted of surface exploration and diamond drilling activities in the outside sections of the E.L. and detailed investigations (mine planning, economic, etc) of the main Kara WO3 bearing skarns.

Report Date	84_2149	1/06/1984
Authors(s)	Sumpton, J.D.H., Turley, S.D.	
Title	1983/84 Annual Report E.L. 24/73, Follow-up of Aeromagnetic Survey of the Dial Range Trough.	
Company(s)	Duval Mining (Australia) Limited, Geopeko Limited	
Tenement(s)	EL24/1973	
Physical Description	1 volumes 20PP, 4 APPX, 4 PLANS,	
Digital Media		
Other Ref.		
Map (250K)	SK55-3 BURNIE	
Map (50/100K)	80151 Burnie, 81154 Ulverstone	
Geographic Activities	Dial Range, Hardstaff Creek, Leven River Air magnetic, Analysis, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Logs, Metallic minerals, Misc and Fuels, Percussion, Petrology, Soil (A,B,C horiz), Surface mapping, Whole-rock:Major	
Minerals Deposits	Base Metals, Iron, Magnetite, Tin	
Keywords	Dial Range Trough(S), Replacement Mineralisation	
Annotation	Follow-up of airborne magnetic anomalies failed to delineate anomalies worthy of further exploration. At Venture 5 high geochemical values indicate a southward extension of the Dial Mine mineralised zone, but these have no genetic relation with the cause of the magnetic anomaly. A review of exploration activity is recommended.	
Report Date	83_2040	1/09/1983
Authors(s)	Ruxton, P.A.	
Title	E.L. 8/77 - Riana, Progress Report on Exploration During the Period 2/7/82 to 1/9/83.	
Company(s)	Commonwealth Aluminium Corporation Limited, The Shell Company of Australia Limited	
Tenement(s)	EL8/1977	
Physical Description	2 volumes 9PP, 8 APPX, 2 TABLES, 11 FIG, 35 PLANS	
Digital Media		
Other Ref.		8.2061
Map (250K)	SK55-3 BURNIE	
Map (50/100K)	80151 Burnie, 80152 Loongana, 81153 Wilmot, 81154 Ulverstone	
Geographic	Castra Rivulet, Cuprona, Gunns Plains, Laurel Creek, Loyetea Peak, Midgleys Falls, Natone, Penguin, Riana	

Activities	Air electromag, Air magnetic, Air radiometric, Analysis, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd electromag, Gnd magnetic, Gravity, Logs, Metallic minerals, Misc and Fuels, Percussion, Petrology, Resistivity, Rock-chip, Soil (A,B,C horiz), Surface mapping, Well-logging		
Minerals	Base Metals, Gold, Iron, Magnetite, Pyrrhotite, Tin, Tungsten		
Deposits	Natone		
Keywords	Downhole IP-Resistivity, Gordon Limestone(S), Housetop Granite(S), INPUT-EM, Max-Min-EM, Oonah Formation(S), Skarn, VLF-EM		
Annotation	Ground follow-up of eight aeromagnetic and four INPUT anomalies continued with gridding, ground magnetics and surface EM and IP techniques where warranted. Of particular interest are aeromag, INPUT and gravity anomalies in close proximity to the centre of an Ordovician synclinorium which may contain Gordon Limestone beneath basalt cover. Drilling at Natone intersected skarn with low Sn, WO3 and Au assays.		
Report	83_2045		
Date			1/09/1983
Authors(s)	Buchhorn, I.J., Lawton, J.J., Oakes, G.F., Wright, R.G.		
Title	E.L. 36/79 - Loongana, Progress Report on Exploration for the Period 1st May, 1980-30th June, 1983.		
Company(s)	The Shell Company of Australia Limited		
Tenement(s)	EL36/1979		
Physical Description	3 volumes 19PP, 7 APPX, 22 FIG, 59 PLANS,		
Digital Media			
Other Ref.			8.1266
Map (250K)	SK55-3 BURNIE		
Map (50/100K)	80152 Loongana, 80153 Waratah		
Geographic	Blythe River, Dempster Creek, Guildford, Loongana, Loongana Range, Tulip-Tree Creek		
Activities	Air electromag, Air magnetic, Analysis, Diamond, Drilling, EIP/MIP, Geochemistry, Geology, Geophysics, Gnd electromag, Gnd magnetic, Logs, Metallic minerals, Misc and Fuels, Petrology, Resistivity, Rock-chip, Soil (A,B,C horiz), Surface mapping, Well-logging		
Minerals	Base Metals, Cassiterite, Iron, Magnetite, Pyrite, Scheelite, Tin, Tungsten		
Deposits	Blythe R, Challenger Anomalies, Tulip Ck		
Keywords	Felsic Volcanics, Gordon Limestone(S), Housetop Granite(S), INPUT-EM, Max-Min-EM, Replacement Mineralisation, Skarn, VLF-EM		
Annotation	Follow-up of aeromagnetic and EM surveys failed to locate zones of economic interest. Further work is required to evaluate the potential of the challenger ii prospect.		
Report	87_2660		
Date			1/04/1987
Authors(s)	Von Strokirch, T.		
Title	El 7/74 Moina Report on Areas Relinquished on 18 July, 1987.		

Company(s)	Billiton Australia, CRA Exploration Proprietary Limited, Comalco Limited, The Shell Company of Australia Limited
Tenement(s)	EL7/1974
Physical Description	2 volumes 29PP, 5 APPX, 32 PLANS,
Digital Media	
Other Ref.	14474,
Map (250K)	SK55-3 BURNIE
Map (50/100K)	80152 Loongana
Geographic	Bull Creek, Lorinna, Moina, Mt Jacob, Smiths Plains, Tin Spur
Activities	Air magnetic, Analysis, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd electromag, Gnd magnetic, Metallic minerals, Misc and Fuels, Percussion, Petrology, Soil (A,B,C horiz), Stream sediment, Surface mapping
Minerals	Base Metals, Gold, Tin
Deposits	Tin Spur
Keywords	Gordon Limestone(S), Mt Read Volcanics(Sc), Owen Conglomerate(S), UTEM
Annotation	A number of stream sediment and aeromagnetic anomalies have been followed up in the search of skarn related deposits. No significant resources have been located on the ground and therefore some areas are relinquished
Report	86_2539
Date	1/04/1986
Authors(s)	Caithness, S.J.
Title	Loongana EL 36/79, Report on Exploration for 12 Months to 1st April 1986.
Company(s)	Billiton Australia, CRA Exploration Proprietary Limited, The Shell Company of Australia Limited
Tenement(s)	EL36/1979
Physical Description	1 volumes 9PP, 4 APPX, 10 FIG,
Digital Media	
Other Ref.	13863
Map (250K)	SK55-3 BURNIE
Map (50/100K)	80152 Loongana
Geographic	Loongana
Activities	Diamond, Drilling, Geochemistry, Logs, Percussion, Stream sediment
Minerals	Barite, Barium, Base Metals, Gold
Deposits	Challenger Anomalies, Hellyer, Que R, Two Hummocks
Keywords	Denison Group(S), Moina Sandstone(S), Mt Read Volcanics(S), Owen Conglomerate(S), UTEM
Annotation	A regional drainage geochemical survey has been carried out over the EL. The survey was designed to look for fine gold as a primary target and as a path finder for volcanogenic massive sulphides. Two diamond drill holes were drilled on the Two Hummocks prospect in order to test a UTEM anomaly along strike of a barite occurrence. No mineralisation was intersected.

Report Date	84_2276	1/10/1984
Authors(s)	Oakes, G.F., Wright, R.G.	
Title	E.L. 4/77 - Highclere. Final Report on Exploration During the Period September, 1982 - May, 1984	
Company(s)	Billiton Australia, Comalco Limited, The Shell Company of Australia Limited	
Tenement(s)	EL4/1977	
Physical Description	2 volumes VOL 1 = 22PP, 5 APPX, 1 FIG; VOL 2 = 36 PLANS	
Digital Media		
Other Ref.		8.2493
Map (250K)	SK55-3 BURNIE	
Map (50/100K)	80151 Burnie, 80152 Loongana, 80153 Waratah, 80154 Yolla	
Geographic	Hampshire, Highclere, Lake Kara, Ridgley, St Valentines Peak	
Activities	Air electromag, Air magnetic, Diamond, Drilling, EIP/MIP, Geochemistry, Geology, Geophysics, Gnd electromag, Gnd magnetic, Logs, Misc and Fuels, Percussion, Petrology, Resistivity, Soil (A,B,C horiz), Surface mapping	
Minerals	Iron, Magnetite, Tin, Tungsten	
Deposits	Buckby, Cranes, Highclere	
Keywords	Burnie Formation(S), Gordon Limestone(S), Greisen, Housetop Granite(S), INPUT-EM, Max-Min-EM, Metasomatism, Replacement Mineralisation, Skarn, VLF-EM	
Annotation	Follow-up of 10 INPUT anomalies showed that most are related to conductive layers within or at the base of a thick Tertiary basalt cover. The Highclere magnetite skarn and a carbonaceous shale also produced INPUT anomalies. The greisen tin potential of the Cranes Prospect - Lake Kara area is considered to be very limited. Relinquishment is recommended. Note: appx. 1 is a portion of Geoterrex report 83-548.	

Report Date	77_1213	1/05/1977
Authors(s)	Chapman, J.R., Scott, T.B.	
Title	Progress Report to 30 April, 1977 Exploration Licence No. 24/73, Dial Range Project - Tasmania.	
Company(s)	Pennzoil of Australia Limited	
Tenement(s)	EL24/1973	
Physical Description	1 volumes 11PP, 1 FIG, 7 PLANS,	
Digital Media		
Other Ref.		
Map (250K)	SK55-3 BURNIE	
Map (50/100K)	81154 Ulverstone	
Geographic	Adit Creek, Allison Creek, Dial Range, Hardstaff Creek, Revell Creek, Walloa Creek, Whisky Creek	

Activities	Analysis, Diamond, Drilling, EIP/MIP, Geochemistry, Geophysics, Logs, Metallic minerals, Misc and Fuels, Ore Genesis, Resistivity, Soil (A,B,C horiz)
Minerals	Base Metals, Chalcocite, Chalcopyrite, Copper, Pyrite
Deposits	Dial, Russell
Keywords	Dial Range Trough(S), Felsic Volcanics, Gossan, Stratigraphy, Vein Mineralisation, Volcanic Hosted Mineralisation
Annotation	Drilling has shown that the environment on the Dial Mine grid, in which extensive gossanous pyroclastics occur, is a large pyritised volcanoclastic/ sediment sequence probably near a vent but too unstable to allow accumulation of an extensive sulphide body. However, DDH4 indicated the presence of a favourable environment for economic sulphide deposition near the old Dial Mine adit and further work is recommended. Geochemical and geophysical surveys in the Whiskey Ck, Russells Mine and Lings Farm areas failed to produce encouraging results and no further work is recommended.
Report	81_1591
Date	1/05/1981
Authors(s)	Large, R.R.
Title	Progress Report - E.L. 24/73 Dial Range - 1980 Field Season
Company(s)	Duval Mining (Australia) Limited, Geopeko Limited
Tenement(s)	EL24/1973
Physical Description	1 volumes 18PP, 4 APPX, 7 FIG, 9 PLANS,
Digital Media	
Other Ref.	
Map (250K)	SK55-3 BURNIE
Map (50/100K)	81154 Ulverstone
Geographic	Dial Range, Revell Creek
Activities	Analysis, Diamond, Drilling, Geochemistry, Logs, Metallic minerals, Misc and Fuels, Petrology, Stream sediment
Minerals	Base Metals, Chalcocite, Copper, Pyrite, Tin
Deposits	Dial
Keywords	Dial Range Trough(S), Felsic Volcanics
Annotation	Diamond drilling on the Dial Mine grid intersected a sequence of calcareous and dolomitic sediments and breccias favourable for Sn mineralisation, but only minor Sn grades were encountered. Cu mineralisation was intersected in one drill hole grading 0.68% Cu over 20 m. The form of the Cu mineralisation suggests a sedimentary/diagenetic origin, while the Sn mineralisation in the sedimentary breccias is considered to be of hydrothermal replacement origin, possibly related to emplacement of Devonian granite at depth.

Report Date	84_2149	1/06/1984
Authors(s)	Sumpton, J.D.H., Turley, S.D.	
Title	1983/84 Annual Report E.L. 24/73, Follow-up of Aeromagnetic Survey of the Dial Range Trough.	
Company(s)	Duval Mining (Australia) Limited, Geopeko Limited	
Tenement(s)	EL24/1973	
Physical Description	1 volumes 20PP, 4 APPX, 4 PLANS,	
Digital Media		
Other Ref.		
Map (250K)	SK55-3 BURNIE	
Map (50/100K)	80151 Burnie, 81154 Ulverstone	
Geographic Activities	Dial Range, Hardstaff Creek, Leven River Air magnetic, Analysis, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Logs, Metallic minerals, Misc and Fuels, Percussion, Petrology, Soil (A,B,C horiz), Surface mapping, Whole-rock:Major	
Minerals Deposits	Base Metals, Iron, Magnetite, Tin	
Keywords	Dial Range Trough(S), Replacement Mineralisation	
Annotation	Follow-up of airborne magnetic anomalies failed to delineate anomalies worthy of further exploration. At Venture 5 high geochemical values indicate a southward extension of the Dial Mine mineralised zone, but these have no genetic relation with the cause of the magnetic anomaly. A review of exploration activity is recommended	
Report Date	UR1980_15	4/06/1980
Authors(s)	Matthews, W.L.	
Title	Subsurface Investigations at the Guide River Dam Site.	
Company(s)		
Tenement(s)		
Physical Description	1 volumes 12PP, 5APPX, 3TABLES, 12FIG	
Digital Media		
Other Ref.		
Map (250K)	SK55-3 BURNIE	
Map (50/100K)	80151 Burnie	
Geographic Activities	Guide River Auger, Diamond, Drilling, Engineer. Geol, Geology, Geophysics, Logs, Site investigations, Slope stability	
Minerals Deposits	Clay	

Keywords	Burnie Formation(S), Cretaceous-Quaternary, Dam Site, Foundations, Material Properties, Permeability
Annotation	Subsurface investigations at the proposed Guide River dam site have shown that weathered basalt with some unweathered basalt overlies Precambrian mudstone and sandstone. Substantial leakage problems with pump testing suggest special measures will need to be taken to seal the dam. The rock types in the area show relatively high shear strength and although conditions are less than ideal, a dam could be safely built. A rock fill construction with a clay core would be most practical, however suitability of local materials should be further tested.
Report Date	89_3025 1/09/1989
Authors(s)	Whitehead, C.H.
Title	Exploration Licence 17/68, Kara-Hampshire, N.W. Tasmania, Annual Report, 4th November, 1988 to 4th November, 1989
Company(s)	Tasmania Mines Limited, Tasmania Mines NL
Tenement(s)	1371P/M, EL17/1968
Physical Description	1 volumes 7PP, 3 APPX, 5 PLANS,
Digital Media	
Other Ref.	
Map (250K)	SK55-3 BURNIE
Map (50/100K)	80152 Loongana
Geographic	Emu River, Hampshire
Activities	Analysis, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Logs, Metallic minerals, Percussion, Rock-chip, Surface mapping
Minerals	Gold, Iron, Magnetite, Scheelite, Silver, Tungsten, Wollastonite
Deposits	Hampshire Iron, Hampshire Silver, Kara
Keywords	Gordon Limestone(S), Replacement Mineralisation, Skarn
Annotation	A summary of on-going investigations into the magnetite, scheelite, wollastonite, silver and gold potential of the licence. Rock-chip sampling of skarns produced low tenor results for gold (up to 0.12 g/t) and silver (up to 21 g/t).
Report Date	88_2759 1/11/1986
Authors(s)	Whitehead, C.H.
Title	Exploration Licence 17/68 Annual Report November 4th 1985 - November 3rd 1986
Company(s)	Tasmania Mines Limited, Tasmania Mines NL
Tenement(s)	EL17/1968

Physical Description	2 volumes A23PP, 11 APPX, 18 PLANS,
Digital Media	
Other Ref.	
Map (250K)	SK55-3 BURNIE
Map (50/100K)	80152 Loongana
Geographic	Hampshire
Activities	Analysis, Bed-rock, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Indust. Minerals, Logs, Metallic minerals, Mineral Process., Mining, Misc and Fuels, Ore Reserves, Soil (A,B,C horiz), Stream sediment, Surface mapping
Minerals	Iron, Magnetite, Scheelite, Tungsten, Wollastonite
Deposits	Kara
Keywords	Gordon Limestone(S), Replacement Mineralisation, Skarn
Annotation	A summary of on-going exploration. A new area of tungsten mineralisation is identified along the eastern limb of the Kara synform. Open-cuttable scheelite reserves increased in the Kara South-Eastern Ridge areas.