

**Blythe Project, Northern Tasmania**  
**Annual Report for EL 36/2006 (Stowport)**

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**Date** 26/03/2008

## Abstract

During the current year work on this lease has involved general reconnaissance, research of historical data and compilation of aeromagnetic data. This work highlighted the potential of locating direct shipping iron ore within skarn bodies adjacent to the contact of the Husetop Granite. A ground magnetic survey of potential magnetite skarns is programmed for early 2008.

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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 36/2006 is held in the name of Red River Resources. It covers an area of 36 km<sup>2</sup> and is located at Upper Stowport in northern Tasmania (see Figure1). This report covers exploration on the tenement for the year ending 26/01/2008.

### **1.2 Exploration Rationale**

The focus of exploration in the tenement is magnetite associated with 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. These are in turn unconformably overlain to the east by a 100 meters thick unit of the late Proterozoic Oonah Formation consisting of haematitic and micaceous siliceous siltstones having shallower dips of about 40° to the southeast. This unit is overlain to the east by a slightly steeper south-easterly dipping sequence of conglomerates, sandstones and pebbly limestones, lithologically correlated with the Cambrian-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.

The geology within the tenement is masked by a thick soil cover with only weathered granite recognized in some road cuttings.

## **2.0 Previous Exploration**

Appendix 1 is a list of company reports for work undertaken within the Blythe Joint venture area. Based on this data exploration is currently focused on magnetite skarn bodies as a source of direct shipping grade iron ore.

### **3.0 Work Program**

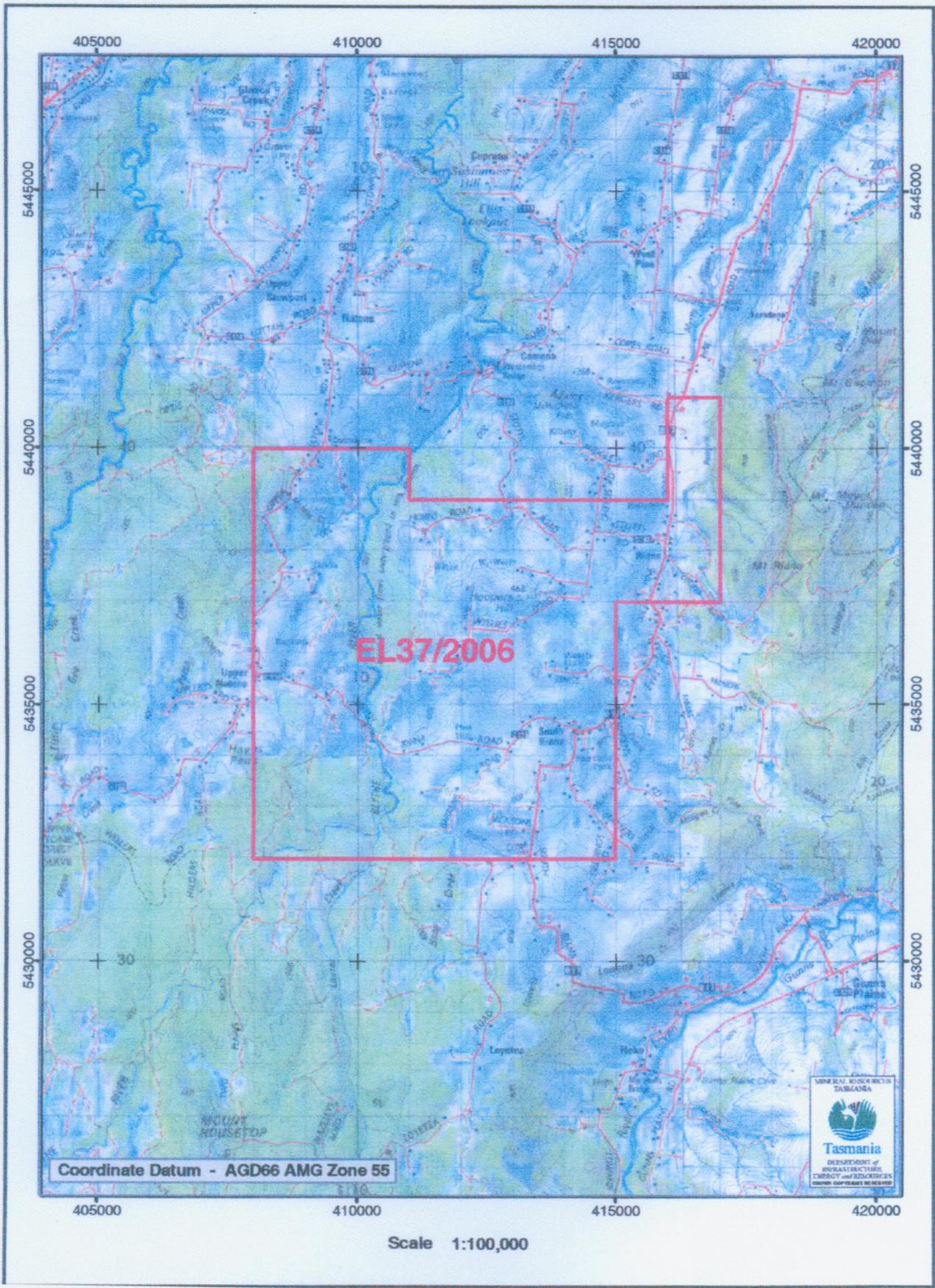
During the current year work on this tenement has involved general reconnaissance, research of historical data and the compilation of aeromagnetic data.

### **4.0 Discussion of Results**

The review of the old company data indicates the presence of magnetite-rich skarns deposits along the contact of the Housetop Granite. These skarns have the potential to contain significant tonnes of direct shipping grade magnetite. Ground magnetic follow-up of magnetic anomalies noted in the old reports will be a priority for the next field season.

### **5.0 Expenditure**

Total expenditure to date:     \$5,517.00



Coordinate Datum - AGD66 AMG Zone 55



Scale 1:100,000

**APPENDIX 1**

**COMPANY REPORTS**

<b>Report</b>	90_3199	
<b>Date</b>		1/10/1990
<b>Authors(s)</b>	Anon	
<b>Title</b>	Parts A and B, Tasmania Mines Limited Retention Licence Application Exploration Licence 17/68	
<b>Company(s)</b>	Tasmania Mines Limited, Tasmania Mines NL	
<b>Tenement(s)</b>	EL17/1968	
<b>Physical Description</b>	1 volumes 19PP, 2APPX, 1 FIG, 10 PLANS,	
<b>Digital Media</b>		
<b>Other Ref.</b>		
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80151 Burnie	
<b>Geographic</b>	Hampshire, Loudwater Creek, Wollastonite Creek	
<b>Activities</b>	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	
<b>Minerals</b>	Magnetite, Scheelite, Wollastonite	
<b>Deposits</b>	Hampshire, Kara	
<b>Keywords</b>	Skarn	
<b>Annotation</b>	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.	
<b>Report</b>	82_1828	
<b>Date</b>		1/10/1982
<b>Authors(s)</b>	Whitehead, C.H.	
<b>Title</b>	Summary Report of Completed Work Programme, E.L. 17/68 and C.L. 105M/77, Twelve Month Period, November 4th 1981-November 3rd 1982.	
<b>Company(s)</b>	McIntyre Mines (Australia) Proprietary Limited, Tasminex NL	
<b>Tenement(s)</b>	105M/1977, EL17/1968	
<b>Physical Description</b>	19 volumes VOL 1 = 10PP, 1 PLAN; VOL 2 = 4PP, 1 PLAN;	
<b>Digital Media</b>		

<b>Other Ref.</b>	SK55-3 BURNIE	
<b>Map (250K)</b>	80152 Loongana	
<b>Map (50/100K)</b>	Emu River, Hampshire, Limestone Creek, Old Park River, Valentines Creek	
<b>Geographic Activities</b>	Analysis, Diamond, Drilling, Environment, Geochemistry, Geology, Geophysics, Gnd magnetic, Logs, Metallic minerals, Mineral Process., Misc and Fuels, Ore Reserves, Petrology, Surface mapping, Water	
<b>Minerals</b>	Iron, Magnetite, Scheelite, Tungsten	
<b>Deposits</b>	Bobs Bonanza, Hampshire, Kara, Lohreys	
<b>Keywords</b>	Felsic Volcanics, Gordon Limestone(S), Housetop Granite(S), Skarn	
<b>Annotation</b>	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.	
<b>Report</b>	81_1625	
<b>Date</b>		1/11/1981
<b>Authors(s)</b>	Whitehead, C.H.	
<b>Title</b>	Summary Report of Completed Work Programme Exploration Licence 17/68 and Consolidated Lease 105M/77 Period May 4th 1981 to November 3rd 1981.	
<b>Company(s)</b>	McIntyre Mines (Australia) Proprietary Limited, Tasminex NL	
<b>Tenement(s)</b>	105M/1977, EL17/1968	
<b>Physical Description</b>	3 volumes 18PP, 2 ATTACHMENTS, 7 APPX, 8 PLANS,	
<b>Digital Media</b>		
<b>Other Ref.</b>		
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80152 Loongana	
<b>Geographic Activities</b>	Hampshire, St Valentines Peak 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	
<b>Minerals</b>	Cassiterite, Fluorine, Fluorite, Iron, Magnetite, Scheelite, Silver, Tin, Tungsten	
<b>Deposits</b>	Hampshire, Kara	

<b>Keywords</b>	Gordon Limestone(S), Housetop Granite(S), Skarn	
<b>Annotation</b>	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.	
<b>Report</b>	88_2764	
<b>Date</b>		1/11/1987
<b>Authors(s)</b>	Whitehead, C.H.	
<b>Title</b>	Exploration Licence 17/68, Annual Report, November 4, 1986 - November 3, 1987	
<b>Company(s)</b>	Tasmania Mines Limited, Tasmania Mines NL	
<b>Tenement(s)</b>	EL17/1968	
<b>Physical Description</b>	1 volumes 12PP, 15 APPX, 1 FIG, 6 PLANS,	
<b>Digital Media</b>		
<b>Other Ref.</b>		
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80152 Loongana	
<b>Geographic</b>	Hampshire, Wollastonite Creek	
<b>Activities</b>	Analysis, Bed-rock, Diamond, Drilling, Geochemistry, Geology, Geophysics, Indust. Minerals, Metallic minerals, Mine/Deposit, Mineral Process., Misc and Fuels, Petrology, Rock-chip, Surface mapping	
<b>Minerals</b>	Gold, Iron, Magnetite, Scheelite, Tungsten, Wollastonite	
<b>Deposits</b>	Kara	
<b>Keywords</b>	Gordon Limestone(S), Replacement Mineralisation, Skarn	
<b>Annotation</b>	A summary of ongoing exploration for tungsten and recent evaluation of gold potential on the licence. Wollastonite occurrences and beneficiation properties are investigated.	
<b>Report</b>	82_1794	
<b>Date</b>		1/08/1982
<b>Authors(s)</b>	Whitehead, C.H.	
<b>Title</b>	Exploration Licence 17/68 and Consolidated Lease 105M/77, Quarterly Report for the Period May 4th 1982 to August 3rd 1982	

<b>Company(s)</b>	McIntyre Mines (Australia) Proprietary Limited, Tasminex NL	
<b>Tenement(s)</b>	105M/1977, EL17/1968	
<b>Physical Description</b>	1 volumes 5PP, 1 APPX, 1 PLAN,	
<b>Digital Media</b>		
<b>Other Ref.</b>		
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80152 Loongana	
<b>Geographic</b>	Emu River, Hampshire, Horizontal Creek, Loudwater Creek, St Valentines Peak	
<b>Activities</b>	Analysis, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Metallic minerals, Stream sediment, Surface mapping	
<b>Minerals</b>	Iron, Magnetite, Scheelite, Tungsten	
<b>Deposits</b>	Kara	
<b>Keywords</b>	Gordon Limestone(S), Housetop Granite(S), Skarn	
<b>Annotation</b>	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.	
<b>Report</b>	82_1878	
<b>Date</b>		1/09/1982
<b>Authors(s)</b>	Lawton, J.J.	
<b>Title</b>	E.L. 4/77 - Highclere. Progress Report on Exploration During the Period March 1980 - August 1982.	
<b>Company(s)</b>	Comalco Limited, The Shell Company of Australia Limited	
<b>Tenement(s)</b>	EL4/1977	
<b>Physical Description</b>	1 volumes 12PP, 2 APPX, 17 FIG, 11 PLANS,	
<b>Digital Media</b>		
<b>Other Ref.</b>	08-1069	
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80151 Burnie, 80152 Loongana, 80153 Waratah	
<b>Geographic</b>	Guide River, Highclere, St Valentines Peak	
<b>Activities</b>	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	

<b>Minerals</b>	Iron, Magnetite, Pyrrhotite, Tin, Tungsten	
<b>Deposits</b>	Buckby, Hampshire Iron	
<b>Keywords</b>	Burnie Formation(S), Dundas Group(Sc), Gravity Modelling, Husetop Granite(S), Max-Min-EM, Replacement Mineralisation, Skarn, Tertiary Basalt, Ultramafics	
<b>Annotation</b>	A summary of tin-tungsten exploration adjacent to the western margin of the Husetop 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.	
<b>Report</b>	82_1820	
<b>Date</b>		1/07/1982
<b>Authors(s)</b>	Ruxton, P.A.	
<b>Title</b>	E.L. 8/77 - Riana, Progress Report on Exploration During the Period 1/8/81 to 1/7/82.	
<b>Company(s)</b>	Commonwealth Aluminium Corporation Limited, The Shell Company of Australia Limited	
<b>Tenement(s)</b>	EL8/1977	
<b>Physical Description</b>	2 volumes 11PP, 9 APPX, 10 FIG, 34 PLANS,	
<b>Digital Media</b>		
<b>Other Ref.</b>	08-1064	
<b>Map (250K)</b>	SK55-5 QUEENSTOWN	
<b>Map (50/100K)</b>	80151 Burnie, 80152 Loongana, 81153 Wilmot, 81154 Ulverstone	
<b>Geographic</b>	Camena, Cuprona, Laurel Creek, Loyetea, Midgleys Falls, Natone, Penguin, Preston, Riana, Stotts Road	
<b>Activities</b>	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	
<b>Minerals</b>	Cassiterite, Pyrite, Pyrrhotite, Tin, Tungsten	
<b>Deposits</b>	Blythe R, Copper King, Cranes, Hoopers, Neptune, Rutherford	
<b>Keywords</b>	Burnie Formation(S), Dolomite, Duricrust, Ferricrete, Gordon Limestone(S), Greisen, Husetop Granite(S), INPUT-EM, Max-Min-EM, Metasomatism, SIROTEM, Skarn, Ultramafics, VLF-EM	
<b>Annotation</b>	Several aeromagnetic and aerelectromagnetic 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	

<b>Report</b>	69_0553	
<b>Date</b>		1/04/1969
<b>Authors(s)</b>	Hughes, T.D.	
<b>Title</b>	Natone Area - EL 14/68 and EL 13/68	
<b>Company(s)</b>	Hinkley D W, McDonald E H	
<b>Tenement(s)</b>	EL13/1968, EL14/1968	
<b>Physical Description</b>	1 volumes 4PP, 1 PLAN,	
<b>Digital Media</b>		
<b>Other Ref.</b>		
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80151 Burnie	
<b>Geographic</b>	Blythe River, Burnie, Natone	
<b>Activities</b>	Diamond, Drilling	
<b>Minerals</b>	Hematite, Iron, Magnetite, Pyrrhotite	
<b>Deposits</b>	Natone	
<b>Keywords</b>	Fault Mineralisation, Rocky Cape Region(S)	
<b>Annotation</b>	Drilling in a geophysically anomalous area has commenced, but is hampered by wet conditions.	
<b>Report</b>	84_2085	
<b>Date</b>		1/12/1983
<b>Authors(s)</b>	Anon	
<b>Title</b>	Exploration Licence 23/79, Wynyard, Tasmania Annual Report for Year Ended 1st December, 1983	
<b>Company(s)</b>	Broken Hill Proprietary Company Limited	
<b>Tenement(s)</b>	EL23/1979	
<b>Physical Description</b>	1 volumes 10PP, 6 APPX, 9 FIG, 2 TABLES,	
<b>Digital Media</b>		
<b>Other Ref.</b>		
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80153 Waratah, 80154 Yolla, 80163 Wynyard	
<b>Geographic</b>	Calder, Cam River, Hellyer River, Wynyard	

<b>Activities</b>	Diamond, Drilling, Geochemistry, Geophysics, Logs, Metallic minerals, Misc and Fuels, Petrology, Physical properties, Rock-chip, Stream sediment	
<b>Minerals</b>	Tin	
<b>Deposits</b>		
<b>Keywords</b>	Arthur Lineament, Burnie Formation(S), Parmeener Supergroup(S), Tertiary Basalt	
<b>Annotation</b>	Two targets, located from aeromagnetics, were drilled through the Tertiary sequence into basement but no anomalies were detected.	
<b>Report</b>	84_2305	
<b>Date</b>		1/12/1984
<b>Authors(s)</b>	Whitehead, C.H.	
<b>Title</b>	Exploration Licence 17/68 and C.L. 105M/77 Completed Work Program and Exploration Expenditures Annual Report, Period November 4th 1983 - November 3rd 1984	
<b>Company(s)</b>	McIntyre Mines (Australia) Proprietary Limited, Tasminex NL	
<b>Tenement(s)</b>	105M/1977, EL17/1968	
<b>Physical Description</b>	1 volumes 5PP, 6 APPX, 3 PLANS,	
<b>Digital Media</b>		
<b>Other Ref.</b>		
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80152 Loongana	
<b>Geographic</b>	Hampshire	
<b>Activities</b>	Analysis, Diamond, Drilling, Feasibility Study, Geology, Geophysics, Gnd magnetic, Logs, Metallic minerals, Mineral Process., Mining, Misc and Fuels, Ore Reserves, Surface mapping	
<b>Minerals</b>	Iron, Magnetite, Scheelite, Tungsten	
<b>Deposits</b>	Kara	
<b>Keywords</b>	Gordon Limestone(S), Housetop Granite(S), Replacement Mineralisation, Skarn	
<b>Annotation</b>	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	
<b>Report</b>	90_3199	
<b>Date</b>		1/10/1990
<b>Authors(s)</b>	Anon	

<b>Title</b>	Parts A and B, Tasmania Mines Limited Retention Licence Application Exploration Licence 17/68	
<b>Company(s)</b>	Tasmania Mines Limited, Tasmania Mines NL	
<b>Tenement(s)</b>	EL17/1968	
<b>Physical Description</b>	1 volumes 19PP, 2APPX, 1 FIG, 10 PLANS,	
<b>Digital Media</b>		
<b>Other Ref.</b>		
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80151 Burnie	
<b>Geographic</b>	Hampshire, Loudwater Creek, Wollastonite Creek	
<b>Activities</b>	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	
<b>Minerals</b>	Magnetite, Scheelite, Wollastonite	
<b>Deposits</b>	Hampshire, Kara	
<b>Keywords</b>	Skarn	
<b>Annotation</b>	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.	
<b>Report</b>	84_2305	
<b>Date</b>		1/12/1984
<b>Authors(s)</b>	Whitehead, C.H.	
<b>Title</b>	Exploration Licence 17/68 and C.L. 105M/77 Completed Work Program and Exploration Expenditures Annual Report, Period November 4th 1983 - November 3rd 1984	
<b>Company(s)</b>	McIntyre Mines (Australia) Proprietary Limited, Tasminex NL	
<b>Tenement(s)</b>	105M/1977, EL17/1968	
<b>Physical Description</b>	1 volumes 5PP, 6 APPX, 3 PLANS,	
<b>Digital Media</b>		
<b>Other Ref.</b>		
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80152 Loongana	
<b>Geographic</b>	Hampshire	

<b>Activities</b>	Analysis, Diamond, Drilling, Feasibility Study, Geology, Geophysics, Gnd magnetic, Logs, Metallic minerals, Mineral Process., Mining, Misc and Fuels, Ore Reserves, Surface mapping	
<b>Minerals</b>	Iron, Magnetite, Scheelite, Tungsten	
<b>Deposits</b>	Kara	
<b>Keywords</b>	Gordon Limestone(S), Housetop Granite(S), Replacement Mineralisation, Skarn	
<b>Annotation</b>	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.	
<b>Report</b>	84_2149	
<b>Date</b>		1/06/1984
<b>Authors(s)</b>	Sumpton, J.D.H., Turley, S.D.	
<b>Title</b>	1983/84 Annual Report E.L. 24/73, Follow-up of Aeromagnetic Survey of the Dial Range Trough.	
<b>Company(s)</b>	Duval Mining (Australia) Limited, Geopeko Limited	
<b>Tenement(s)</b>	EL24/1973	
<b>Physical Description</b>	1 volumes 20PP, 4 APPX, 4 PLANS,	
<b>Digital Media</b>		
<b>Other Ref.</b>		
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80151 Burnie, 81154 Ulverstone	
<b>Geographic</b>	Dial Range, Hardstaff Creek, Leven River	
<b>Activities</b>	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	
<b>Minerals</b>	Base Metals, Iron, Magnetite, Tin	
<b>Deposits</b>		
<b>Keywords</b>	Dial Range Trough(S), Replacement Mineralisation	
<b>Annotation</b>	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.	
<b>Report</b>	83_2040	

<b>Date</b>		1/09/1983
<b>Authors(s)</b>	Ruxton, P.A.	
<b>Title</b>	E.L. 8/77 - Riana, Progress Report on Exploration During the Period 2/7/82 to 1/9/83.	
<b>Company(s)</b>	Commonwealth Aluminium Corporation Limited, The Shell Company of Australia Limited	
<b>Tenement(s)</b>	EL8/1977	
<b>Physical Description</b>	2 volumes 9PP, 8 APPX, 2 TABLES, 11 FIG, 35 PLANS	
<b>Digital Media</b>		
<b>Other Ref.</b>		8.2061
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80151 Burnie, 80152 Loongana, 81153 Wilmot, 81154 Ulverstone	
<b>Geographic</b>	Castra Rivulet, Cuprona, Gunns Plains, Laurel Creek, Loyetea Peak, Midgeleys Falls, Natone, Penguin, Riana	
<b>Activities</b>	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	
<b>Minerals</b>	Base Metals, Gold, Iron, Magnetite, Pyrrhotite, Tin, Tungsten	
<b>Deposits</b>	Natone	
<b>Keywords</b>	Downhole IP-Resistivity, Gordon Limestone(S), Housetop Granite(S), INPUT-EM, Max-Min-EM, Oonah Formation(S), Skarn, VLF-EM	
<b>Annotation</b>	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 synclorium which may contain Gordon Limestone beneath basalt cover. Drilling at Natone intersected skarn with low Sn, WO3 and Au assays.	
<b>Report</b>	83_2045	
<b>Date</b>		1/09/1983
<b>Authors(s)</b>	Buchhorn, I.J., Lawton, J.J., Oakes, G.F., Wright, R.G.	
<b>Title</b>	E.L. 36/79 - Loongana, Progress Report on Exploration for the Period 1st May, 1980-30th June, 1983.	
<b>Company(s)</b>	The Shell Company of Australia Limited	
<b>Tenement(s)</b>	EL36/1979	
<b>Physical Description</b>	3 volumes 19PP, 7 APPX, 22 FIG, 59 PLANS,	
<b>Digital Media</b>		

<b>Other Ref.</b>		8.1266
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80152 Loongana, 80153 Waratah	
<b>Geographic Activities</b>	Blythe River, Dempster Creek, Guildford, Loongana, Loongana Range, Tulip-Tree Creek 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	
<b>Minerals Deposits</b>	Base Metals, Cassiterite, Iron, Magnetite, Pyrite, Scheelite, Tin, Tungsten	
<b>Keywords</b>	Blythe R, Challenger Anomalies, Tulip Ck Felsic Volcanics, Gordon Limestone(S), Housetop Granite(S), INPUT-EM, Max-Min-EM, Replacement Mineralisation, Skarn, VLF-EM	
<b>Annotation</b>	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.	
<b>Report Date</b>	87_2660	1/04/1987
<b>Authors(s)</b>	Von Strokirch, T.	
<b>Title</b>	El 7/74 Moina Report on Areas Relinquished on 18 July, 1987.	
<b>Company(s)</b>	Billiton Australia, CRA Exploration Proprietary Limited, Comalco Limited, The Shell Company of Australia Limited	
<b>Tenement(s)</b>	EL7/1974	
<b>Physical Description</b>	2 volumes 29PP, 5 APPX, 32 PLANS,	
<b>Digital Media</b>		
<b>Other Ref.</b>	14474,	
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80152 Loongana	
<b>Geographic Activities</b>	Bull Creek, Lorinna, Moina, Mt Jacob, Smiths Plains, Tin Spur 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	
<b>Minerals Deposits</b>	Base Metals, Gold, Tin	
<b>Keywords</b>	Tin Spur Gordon Limestone(S), Mt Read Volcanics(Sc), Owen Conglomerate(S), UTEM	

<b>Annotation</b>	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	
<b>Report</b>	86_2539	
<b>Date</b>		1/04/1986
<b>Authors(s)</b>	Caithness, S.J.	
<b>Title</b>	Loongana EL 36/79, Report on Exploration for 12 Months to 1st April 1986.	
<b>Company(s)</b>	Billiton Australia, CRA Exploration Proprietary Limited, The Shell Company of Australia Limited	
<b>Tenement(s)</b>	EL36/1979	
<b>Physical Description</b>	1 volumes 9PP, 4 APPX, 10 FIG,	
<b>Digital Media</b>		
<b>Other Ref.</b>		13863
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80152 Loongana	
<b>Geographic</b>	Loongana	
<b>Activities</b>	Diamond, Drilling, Geochemistry, Logs, Percussion, Stream sediment	
<b>Minerals</b>	Barite, Barium, Base Metals, Gold	
<b>Deposits</b>	Challenger Anomalies, Hellyer, Que R, Two Hummocks	
<b>Keywords</b>	Denison Group(S), Moina Sandstone(S), Mt Read Volcanics(S), Owen Conglomerate(S), UTEM	
<b>Annotation</b>	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.	
<b>Report</b>	84_2276	
<b>Date</b>		1/10/1984
<b>Authors(s)</b>	Oakes, G.F., Wright, R.G.	
<b>Title</b>	E.L. 4/77 - Highclere. Final Report on Exploration During the Period September, 1982 - May, 1984	
<b>Company(s)</b>	Billiton Australia, Comalco Limited, The Shell Company of Australia Limited	
<b>Tenement(s)</b>	EL4/1977	

<b>Physical Description</b>	2 volumes VOL 1 = 22PP, 5 APPX, 1 FIG; VOL 2 = 36 PLANS	
<b>Digital Media</b>		
<b>Other Ref.</b>		8.2493
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80151 Burnie, 80152 Loongana, 80153 Waratah, 80154 Yolla	
<b>Geographic</b>	Hampshire, Highclere, Lake Kara, Ridgley, St Valentines Peak	
<b>Activities</b>	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	
<b>Minerals</b>	Iron, Magnetite, Tin, Tungsten	
<b>Deposits</b>	Buckby, Cranes, Highclere	
<b>Keywords</b>	Burnie Formation(S), Gordon Limestone(S), Greisen, Housetop Granite(S), INPUT-EM, Max-Min-EM, Metasomatism, Replacement Mineralisation, Skarn, VLF-EM	
<b>Annotation</b>	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.	
<b>Report</b>	77_1213	
<b>Date</b>		1/05/1977
<b>Authors(s)</b>	Chapman, J.R., Scott, T.B.	
<b>Title</b>	Progress Report to 30 April, 1977 Exploration Licence No. 24/73, Dial Range Project - Tasmania.	
<b>Company(s)</b>	Pennzoil of Australia Limited	
<b>Tenement(s)</b>	EL24/1973	
<b>Physical Description</b>	1 volumes 11PP, 1 FIG, 7 PLANS,	
<b>Digital Media</b>		
<b>Other Ref.</b>		
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	81154 Ulverstone	
<b>Geographic</b>	Adit Creek, Allison Creek, Dial Range, Hardstaff Creek, Revell Creek, Walloa Creek, Whisky Creek	
<b>Activities</b>	Analysis, Diamond, Drilling, EIP/MIP, Geochemistry, Geophysics, Logs, Metallic minerals, Misc and Fuels, Ore Genesis, Resistivity, Soil (A,B,C horiz)	

<b>Minerals</b>	Base Metals, Chalcocite, Chalcopyrite, Copper, Pyrite	
<b>Deposits</b>	Dial, Russell	
<b>Keywords</b>	Dial Range Trough(S), Felsic Volcanics, Gossan, Stratigraphy, Vein Mineralisation, Volcanic Hosted Mineralisation	
<b>Annotation</b>	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.	
<b>Report</b>	81_1591	
<b>Date</b>		1/05/1981
<b>Authors(s)</b>	Large, R.R.	
<b>Title</b>	Progress Report - E.L. 24/73 Dial Range - 1980 Field Season	
<b>Company(s)</b>	Duval Mining (Australia) Limited, Geopeko Limited	
<b>Tenement(s)</b>	EL24/1973	
<b>Physical Description</b>	1 volumes 18PP, 4 APPX, 7 FIG, 9 PLANS,	
<b>Digital Media</b>		
<b>Other Ref.</b>		
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	81154 Ulverstone	
<b>Geographic</b>	Dial Range, Revell Creek	
<b>Activities</b>	Analysis, Diamond, Drilling, Geochemistry, Logs, Metallic minerals, Misc and Fuels, Petrology, Stream sediment	
<b>Minerals</b>	Base Metals, Chalcocite, Copper, Pyrite, Tin	
<b>Deposits</b>	Dial	
<b>Keywords</b>	Dial Range Trough(S), Felsic Volcanics	

<b>Annotation</b>	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.	
<b>Report Date</b>	84_2149	1/06/1984
<b>Author(s)</b>	Sumpton, J.D.H., Turley, S.D.	
<b>Title</b>	1983/84 Annual Report E.L. 24/73, Follow-up of Aeromagnetic Survey of the Dial Range Trough.	
<b>Company(s)</b>	Duval Mining (Australia) Limited, Geopeko Limited	
<b>Tenement(s)</b>	EL24/1973	
<b>Physical Description</b>	1 volumes 20PP, 4 APPX, 4 PLANS,	
<b>Digital Media</b>		
<b>Other Ref.</b>		
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80151 Burnie, 81154 Ulverstone	
<b>Geographic</b>	Dial Range, Hardstaff Creek, Leven River	
<b>Activities</b>	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	
<b>Minerals</b>	Base Metals, Iron, Magnetite, Tin	
<b>Deposits</b>		
<b>Keywords</b>	Dial Range Trough(S), Replacement Mineralisation	
<b>Annotation</b>	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	
<b>Report Date</b>	UR1980_15	4/06/1980

<b>Authors(s)</b>	Matthews, W.L.	
<b>Title</b>	Subsurface Investigations at the Guide River Dam Site.	
<b>Company(s)</b>		
<b>Tenement(s)</b>		
<b>Physical Description</b>	1 volumes 12PP, 5APPX, 3TABLES, 12FIG	
<b>Digital Media</b>		
<b>Other Ref.</b>		
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80151 Burnie	
<b>Geographic</b>	Guide River	
<b>Activities</b>	Auger, Diamond, Drilling, Engineer. Geol, Geology, Geophysics, Logs, Site investigations, Slope stability	
<b>Minerals</b>	Clay	
<b>Deposits</b>		
<b>Keywords</b>	Burnie Formation(S), Cretaceous-Quaternary, Dam Site, Foundations, Material Properties, Permeability	
<b>Annotation</b>	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.	
<b>Report</b>	89_3025	
<b>Date</b>		1/09/1989
<b>Authors(s)</b>	Whitehead, C.H.	
<b>Title</b>	Exploration Licence 17/68, Kara-Hampshire, N.W. Tasmania, Annual Report, 4th November, 1988 to 4th November, 1989	
<b>Company(s)</b>	Tasmania Mines Limited, Tasmania Mines NL	
<b>Tenement(s)</b>	1371P/M, EL17/1968	
<b>Physical Description</b>	1 volumes 7PP, 3 APPX, 5 PLANS,	
<b>Digital Media</b>		
<b>Other Ref.</b>		

<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80152 Loongana	
<b>Geographic</b>	Emu River, Hampshire	
<b>Activities</b>	Analysis, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Logs, Metallic minerals, Percussion, Rock-chip, Surface mapping	
<b>Minerals</b>	Gold, Iron, Magnetite, Scheelite, Silver, Tungsten, Wollastonite	
<b>Deposits</b>	Hampshire Iron, Hampshire Silver, Kara	
<b>Keywords</b>	Gordon Limestone(S), Replacement Mineralisation, Skarn	
<b>Annotation</b>	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).	
<b>Report</b>	88_2759	
<b>Date</b>		1/11/1986
<b>Authors(s)</b>	Whitehead, C.H.	
<b>Title</b>	Exploration Licence 17/68 Annual Report November 4th 1985 - November 3rd 1986	
<b>Company(s)</b>	Tasmania Mines Limited, Tasmania Mines NL	
<b>Tenement(s)</b>	EL17/1968	
<b>Physical Description</b>	2 volumes A23PP, 11 APPX, 18 PLANS,	
<b>Digital Media</b>		
<b>Other Ref.</b>		
<b>Map (250K)</b>	SK55-3 BURNIE	
<b>Map (50/100K)</b>	80152 Loongana	
<b>Geographic</b>	Hampshire	
<b>Activities</b>	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	
<b>Minerals</b>	Iron, Magnetite, Scheelite, Tungsten, Wollastonite	
<b>Deposits</b>	Kara	
<b>Keywords</b>	Gordon Limestone(S), Replacement Mineralisation, Skarn	
<b>Annotation</b>	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.	