



Blythe Project, Northern Tasmania Annual Report for EL 6/2005 (“Cuprona”)

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EL62005_200909_03_RCdrilldetails.txt
EL62005_200909_04_RCcollsvy.txt
EL62005_200909_05_assays.txt

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Executive Summary

Exploration work for the Permit Year ending 8 September 2009 was focused on the **Kiwi Prospect** identified by aeromagnetic data and previous exploration. A Reverse Circulation Drilling Program was completed over areas thought to be prospective for magnetite: 5 RC holes were drilled to a total depth of 272 m. Lithologies comprised skarn, sandstone, mudstone and saprolite. Magnetite was hosted within the skarn and produced a number of significant intersections of high Fe % (see **Table 2**). The best intersection was **14 m @ 55.6 % Fe** in KWRC005. However grades of up to **59.6 % Fe** were reached in KWRC002.

Data is currently being reviewed as to the future direction of exploration during the next permit year.

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Attachment 2	RC Drill Details for Kiwi Prospect
Attachment 3	RC Collar Surveys for Kiwi Prospect
Attachment 4	Assay Results

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 EL6/2005 is held in the name of Iron Mountain Mining Ltd. It covers an area of 22 km² in northern Tasmania, approximately 10 km south east of Burnie (see **Figure 1**). The tenement is known as *Cuprona*. This report details exploration on the fourth permit year of the tenement for the period September 2008 to September 2009. The exploration license was initially granted on 8th September 2005.

Figure 1 on the next page shows a summary map indicating all tenement areas in the Blythe Joint Venture Program.

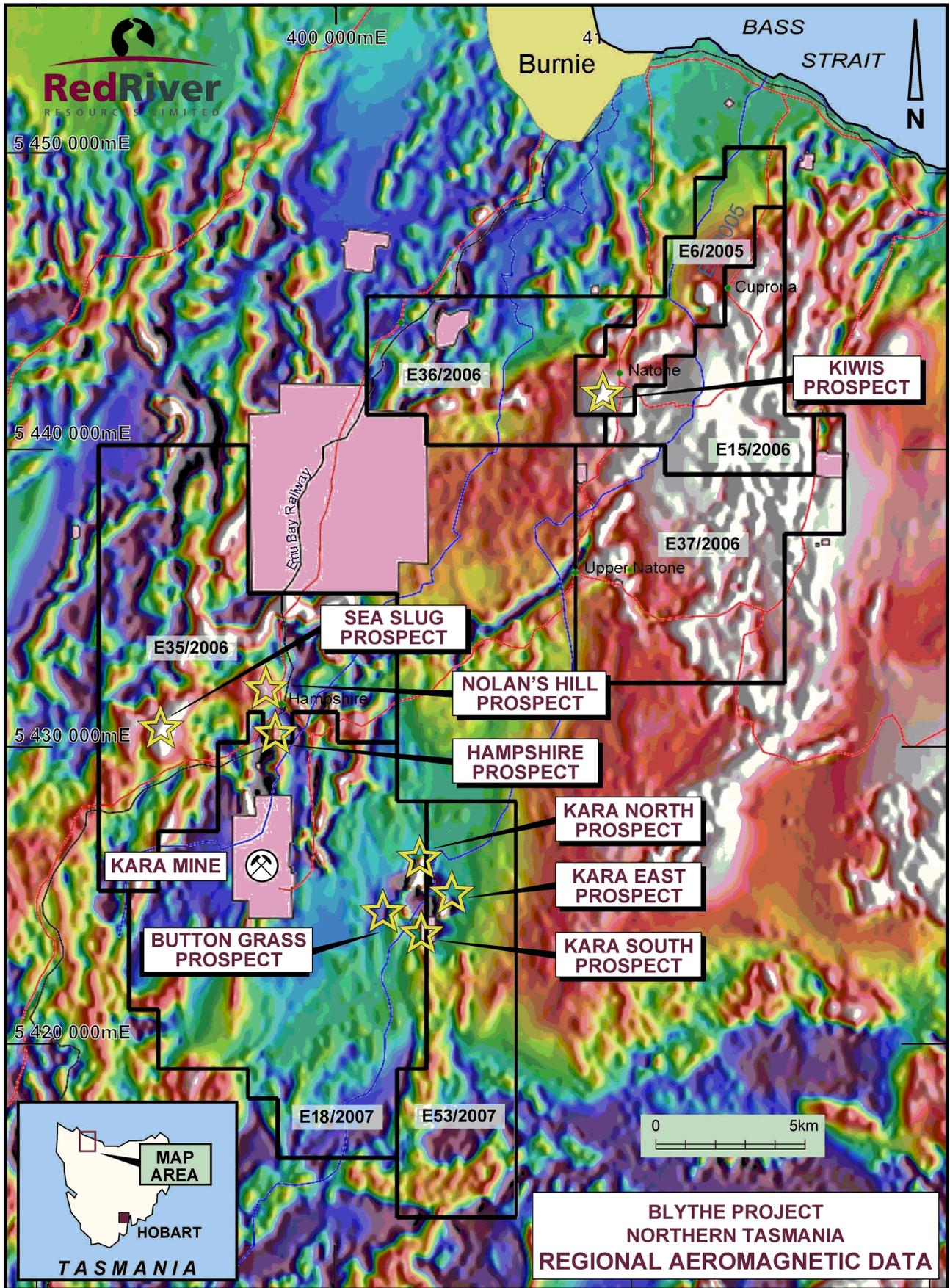


Figure 1 – Blythe Summary Map.

1.2 Exploration Rationale

Current Exploration is focused towards delineating semi-massive to massive magnetite mineralisation hosted by skarns 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 approximately 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.

The tenement is situated to the north east of the Housetop Granite. Most of the geology has a thick soil covering although weathered granite is exposed in some road cuttings. There is also a small outcrop of skarn exposed on a hill in the Jessop's farm.

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. This provided the original focus for the exploration directed towards magnetite skarn bodies as a source of high grade iron ore. For example, drilling by Shell Minerals in this tenement area revealed significant magnetite mineralisation. The aim of subsequent work has been to further this work.

Previous exploration by Iron Mountain Mining Ltd and Red River Resources Ltd is reported in detail in previous annual reports. The work included:

- A detailed gravity survey and soil geochemical sampling survey (permit year 2006 – 2007)
- Five diamond drill holes totalling 721.7 m (permit year 2006 – 2007)
- Ground magnetic survey (permit year 2007 – 2008)

3.0 Work Program – Exploration completed during the report period

As summarised in the *Executive Summary* above, work during this period involved:

- Evaluation of past exploration
- Reverse Circulation drilling

3.1 Evaluation of Past Exploration

Appendix 1 details previous reports which were evaluated during this stage.

A regional aeromagnetic map, see **Figure 1**, was used to define which areas should be investigated in more detail. A number of prospects have been identified throughout tenements in the Blythe Joint Venture Program: the **Kiwi Prospect** falls within the **Cuprona** tenement. This information, in combination with the exploration in previous permit years, was evaluated and used to plan the location of the 5 RC holes.

3.3 Reverse Circulation Drilling

RC drilling was completed over the **Kiwi Prospect** area and consisted of 5 holes with a combined depth of 272 m. The contractor was EDrill Pty Ltd. A summary of each drill hole is given below in **Table 1** (the raw data taken directly from the drill logs can be found in **Attachments 1 to 3**).

Drill Hole Number	Easting (GDA 94)	Northing (GDA 94)	Azimuth	Dip	Depth (m)
KWRC001	408966	5442158	0	90	46
KWRC002	409241	5442242	0	90	60
KWRC003	409216	5442264	0	90	60
KWRC004	409275	5442186	0	90	60
KWRC005	409197	5442199	100	60	46

Table 1 – RC Drilling Summary for Kiwi Prospect

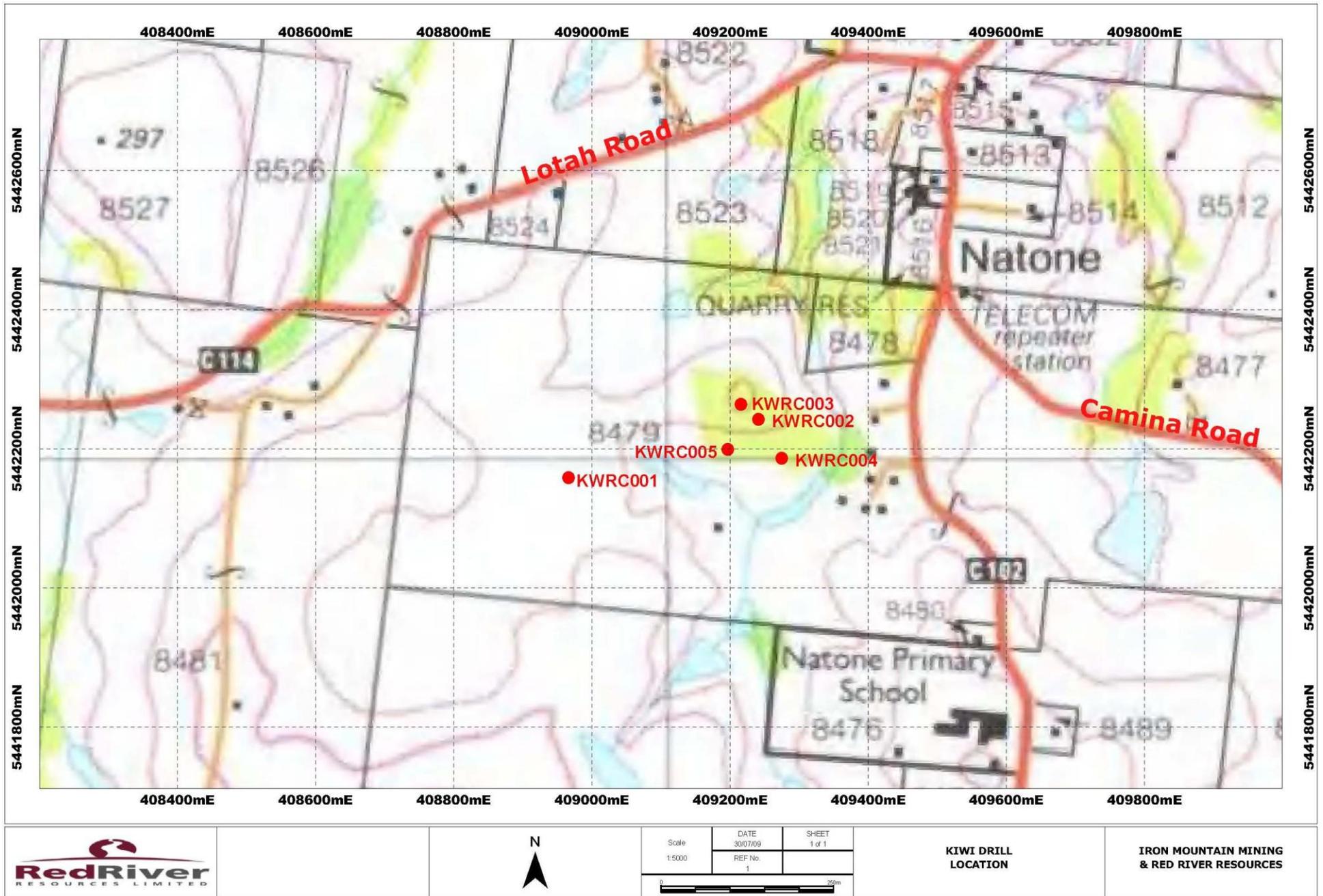


Figure 2 – RC Drill Hole Locations, Kiwi Prospect

4.0 Grid Datum

The Geodetic Datum for the project is GDA 94.

5.0 Discussion of Results

5.1 Reverse Circulation Drilling

Lithological logs produced from RC drilling in the **Kiwi Prospect** are given in **Attachment 1**. Analytical results are provided in **Attachment 4**.

RC drilling at the **Kiwi Prospect** yielded a number of magnetite intersections and these are listed in **Table 2**.

Drill hole cross sections, running from west to east, detailing thicknesses of magnetite-bearing zones, with average grades for Fe, are shown as **Figures 3 – 5**.

Drilling at the Kiwi Prospect has revealed skarn, sandstone, mudstone and saprolite. The skarn deposits host high grade semi-massive to massive magnetite carrying grades of up to 59.6 % Fe, with the best intersection being **14 m @ 55.6 % Fe** in **KWRC005**. See **Table 2** for the complete summary of significant intersections.

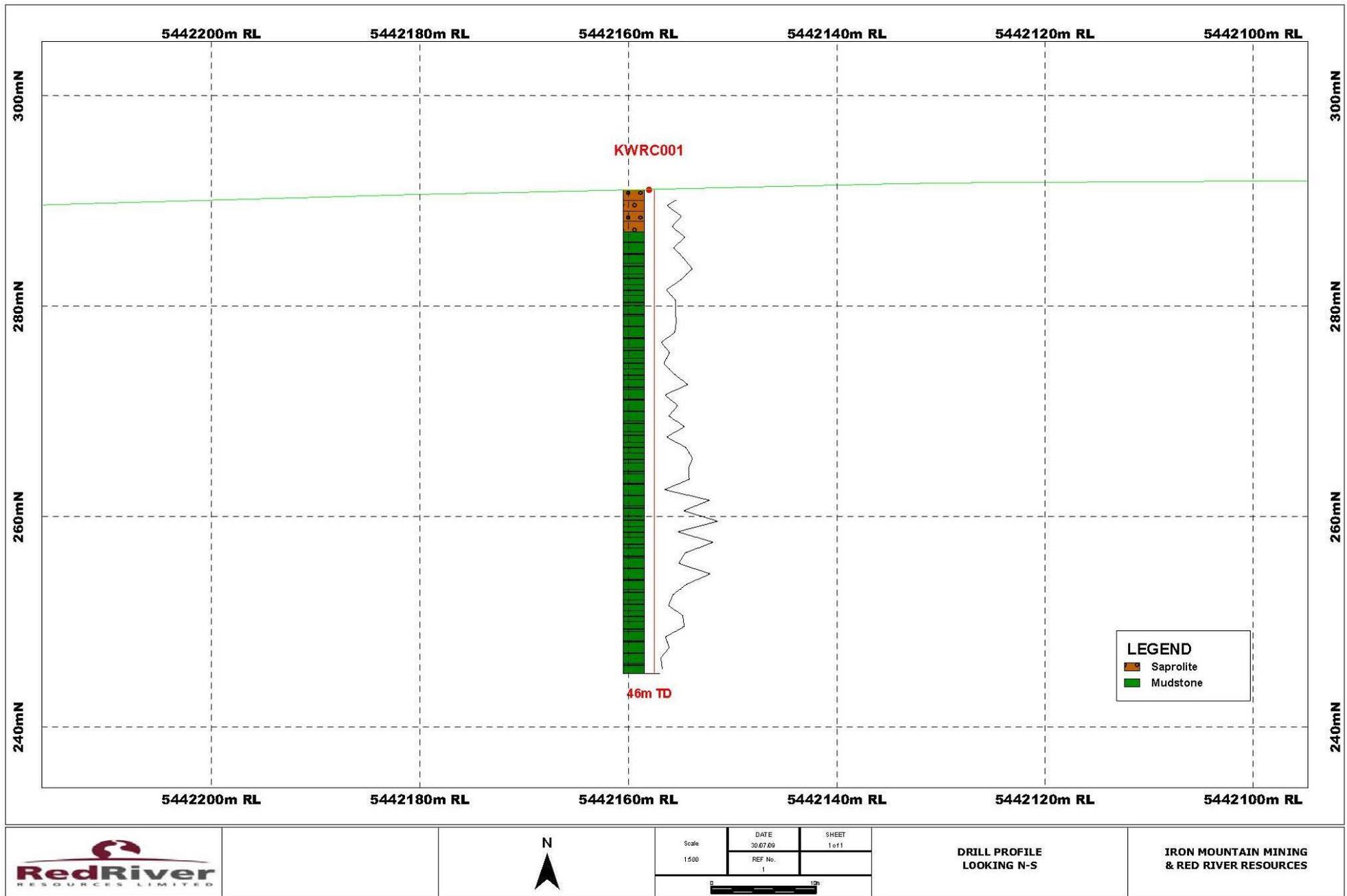


Figure 3 – Cross Section of KWRC001

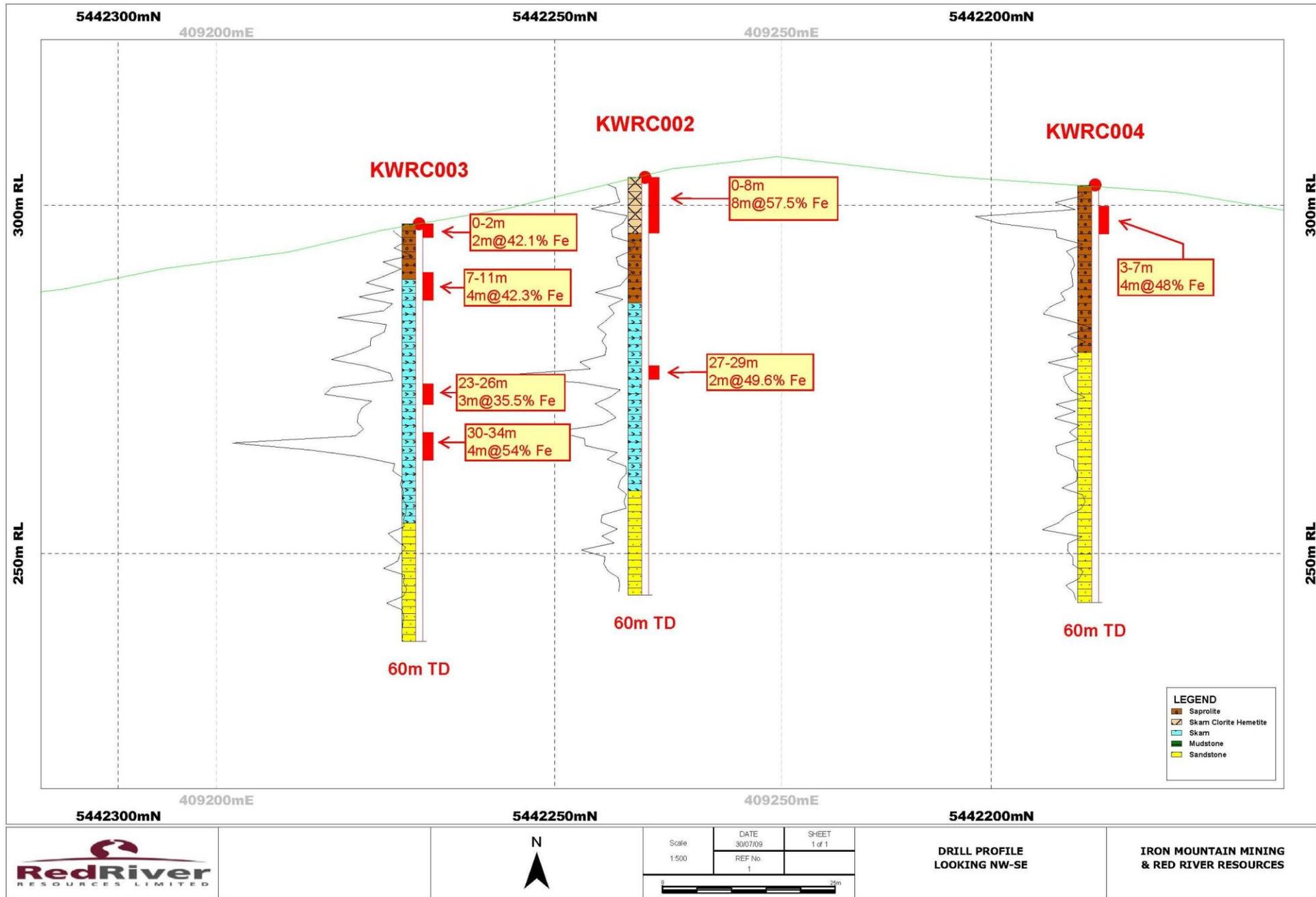


Figure 4 – Cross Section of KWRC002, KWRC003, KWRC004

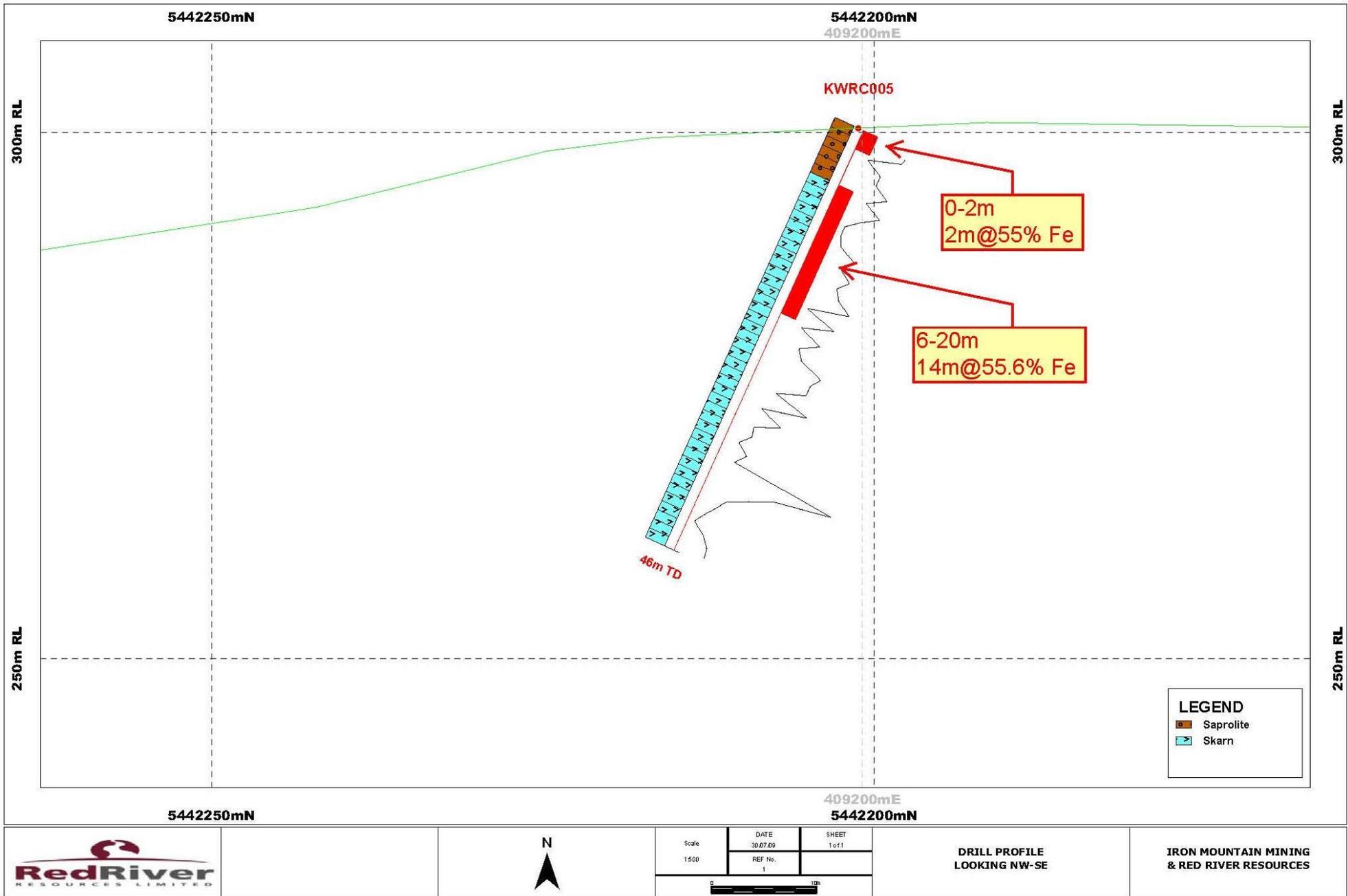


Figure 5 – Cross Section of KWRC005

Hole Number	From (m)	To (m)	Thickness (m)	Fe%	Al%	P%	Si%	S%	Sn%	East MGA	North MGA
KWRC002	0	8	8	57.5	2.08	0.14	12.27	0.03	<0.01	409241	5442242
KWRC002	27	29	2	59.6	1.20	0.16	24.60	0.02	<0.01	409241	5442242
KWRC003	0	2	2	42.1	1.86	0.05	34.95	0.06	<0.01	409216	5442264
KWRC003	7	11	4	42.3	5.80	0.18	28.95	0.06	<0.01	409216	5442264
KWRC003	23	26	3	35.5	2.00	0.20	38.96	0.05	<0.01	409216	5442264
KWRC003	30	34	4	54.0	0.87	0.25	9.47	0.02	<0.01	409216	5442264
KWRC004	3	7	4	48.3	2.75	0.26	5.70	0.14	0.02	409275	5442186
KWRC005	0	2	2	55.0	1.60	0.06	16.90	0.05	0.05	409197	5442199
KWRC005	6	20	14	55.6	3.47	0.16	12.30	0.32	<0.01	409197	5442199

Table 2 – Summary of Significant Intersections from Kiwi Prospect

6.0 Environment

Prior to any investigation, ground disturbance orders were lodged to cover drilling activity. The sites were then cleared and the drill pads prepared. Drilling naturally causes some disruption to the environment, however activity complied with government guidelines so as to minimize disturbance. All sumps were back filled upon completion of drilling and any rubbish removed.

Gravity surveys, soil geochemical sampling, and ground magnetic surveys caused no environmental impact and thus no rehabilitation was required with regards to this area of study.

7.0 Expenditure

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

Geology	\$ 5 735
Geochemistry	\$ 2 348
Geophysics	\$ 0
Drilling	\$ 48 960
Rehabilitation	\$ 975
Feasibility Study	\$ 0
Other	\$ 3 533
Administration	\$ 9 233
Total Expenditure for Report Period	\$ 70 784

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)
Map (50/100K)
Geographic Activities
Minerals
Deposits
Keywords
Annotation

SK55-3 BURNIE
80152 Loongana
Hampshire, Wollastonite Creek
Analysis, Bed-rock, Diamond, Drilling, Geochemistry, Geology, Geophysics, Indust. Minerals, Metallic minerals, Mine/Deposit, Mineral Process., Misc and Fuels, Petrology, Rock-chip, Surface mapping
Gold, Iron, Magnetite, Scheelite, Tungsten, Wollastonite
Kara
Gordon Limestone(S), Replacement Mineralisation, Skarn
A summary of ongoing exploration for tungsten and recent evaluation of gold potential on the licence. Wollastonite occurrences and beneficiation properties are investigated.

Report
Date
Authors(s)
Title
Company(s)
Tenement(s)
Physical Description
Digital Media
Other Ref.

82_1794
1/08/1982
Whitehead, C.H.
Exploration Licence 17/68 and Consolidated Lease 105M/77, Quarterly Report for the Period May 4th 1982 to August 3rd 1982
McIntyre Mines (Australia) Proprietary Limited, Tasminex NL
105M/1977, EL17/1968
1 volumes 5PP, 1 APPX, 1 PLAN,

Map (250K)
Map (50/100K)
Geographic Activities
Minerals
Deposits
Keywords
Annotation

SK55-3 BURNIE
80152 Loongana
Emu River, Hampshire, Horizontal Creek, Loudwater Creek, St Valentines Peak
Analysis, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Metallic minerals, Stream sediment, Surface mapping
Iron, Magnetite, Scheelite, Tungsten
Kara
Gordon Limestone(S), Housetop Granite(S), Skarn
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
Authors(s)
Title

82_1878
1/09/1982
Lawton, J.J.
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, Husetop 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 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.
Report	82_1820
Date	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, Midgeleys 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, Housetop Granite(S), INPUT-EM, Max-Min-EM, Metasomatism, SIROTEM, Skarn, Ultramafics, VLF-EM
Annotation	Several aeromagnetic and aereoelectromagnetic 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 Housetop 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	
Other Ref.	
Map (250K)	SK55-3 BURNIE
Map (50/100K)	80153 Waratah, 80154 Yolla, 80163 Wynyard
Geographic	Calder, Cam River, Hellyer River, Wynyard
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	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	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	84_2149
Date	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) Map (50/100K) Geographic Activities	SK55-3 BURNIE 80151 Burnie, 81154 Ulverstone 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 Base Metals, Iron, Magnetite, Tin
Minerals Deposits Keywords Annotation	Dial Range Trough(S), Replacement Mineralisation 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 Authors(s) Title Company(s) Tenement(s) Physical Description Digital Media Other Ref. Map (250K) Map (50/100K) Geographic	83_2040 1/09/1983 Ruxton, P.A. E.L. 8/77 - Riana, Progress Report on Exploration During the Period 2/7/82 to 1/9/83. Commonwealth Aluminium Corporation Limited, The Shell Company of Australia Limited EL8/1977 2 volumes 9PP, 8 APPX, 2 TABLES, 11 FIG, 35 PLANS
Activities Minerals Deposits Keywords Annotation	8.2061 SK55-3 BURNIE 80151 Burnie, 80152 Loongana, 81153 Wilmot, 81154 Ulverstone Castra Rivulet, Cuprona, Gunns Plains, Laurel Creek, Loyetea Peak, Midgleys Falls, Natone, Penguin, Riana 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 Base Metals, Gold, Iron, Magnetite, Pyrrhotite, Tin, Tungsten Natone Downhole IP-Resistivity, Gordon Limestone(S), Housetop Granite(S), INPUT-EM, Max-Min-EM, Oonah Formation(S), Skarn, VLF-EM 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	EI 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	84_2276
Date	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	77_1213
Date	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	84_2149
Date	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	Dial Range, Hardstaff Creek, Leven River
Activities	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	Base Metals, Iron, Magnetite, Tin
Deposits	
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	UR1980_15
Date	4/06/1980
Author(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	Guide River
Activities	Auger, Diamond, Drilling, Engineer. Geol, Geology, Geophysics, Logs, Site investigations, Slope stability
Minerals	Clay
Deposits	
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	89_3025
Date	1/09/1989
Author(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	88_2759
Date	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-cutttable scheelite reserves increased in the Kara South-Eastern Ridge areas.

Appendix 2 – Metadata for Tabulated Data in Attachment

Metadata for Attachment 1– RC Drill Logs for Kiwi Prospect

Tenement Holder: Iron Mountain Mining Ltd.

Tenement Name: Cuprona, EL 6/2005

Activity which produced data: RC drilling program

Location of data: Attachment 1, EL62005_200909_02_RCdrilllog.txt

Date: 24th – 29th September 2009

Parameters controlling data acquisition: N/A

Contractor producing data: EDrill Pty Ltd

Translation parameters required for conversion of data: N/A

Equipment used to generate data: Drill Rig PRD Multi Star 2000

Definition of codes: See below

Colour		Lithology		Mineral		Mineral	
bk	black	BIF	Banded Iron Formation	AC	Actinolite	PL	Plagioclase
bl	blue	Dlr	Dolerite	AM	Amphibole	PX	Pyroxene
br	brown	Fg	Granite	AN	Andesite	Q	Quartz
cr	cream	Kce	Chlorite Epidote Skarn	AP	Arsenopyrite	RE	Rare Earth mineral
gr	green	Kch	Chlorite Hematite/Epidote Skarn	AR	Argillite	SD	Siderite
gy	grey	Kcl	Chlorite Skarn	AT	Apatite	SI	Silica
kh	khaki	Khs	Hematite-Sulfide-Amphibole Skarn	AZ	Azurite	SM	Smectite
mv	mauve	Ksa	Amphibole Skarn	BA	Barite	SP	Serpentine
pk	pink	Ksc	Sulphide Chlorite Skarn	BI	Biotite	SR	Sericite
pr	purple	Ksd	Andradite Skarn	CA	Calcite	TA	Talc
rd	red	Ksg	Garnet Skarn	CB	Carbonate	TI	Titanite
wt	white	Ksm	Skarn, magnetite-rich	CE	Clay	TR	Tremolite
yl	yellow	Ksn	Skarn (Undifferentiated)	CF	Coffinite	U	Uranium mineral
		Kss	Skarn, garnet/diopside-rich	CH	Chert	ZR	Zircon
		Kst	Talc Skarn	CL	Chlorite	PY	Pyrite

Colour Shade

d dark
l light
mo mottled

Mineralogy

amp amphibole
ang andradite
dps diopside
epd epidote

Mineralogy Continued

gnt garnet
goe goethite
hem hematite
lim limonite
mag magnetite
pyo pyrrhotite
pyup pyrope
sch scheelite
sul sulphide
wol wollastonite

Weathering

F Fresh
M Moderate
S Strong
T Trace
W Weak/Slight

Lk Saprolite
Mf Mafic tuff
Mv Basalt
NS No Sample
QAQC QA/QC Sample
Rs Residual soil

Scg Conglomerate
Sdl Dolomite

Sls Limestone
Smb Hornfel
Smd Fine-grained clastics, typically mudstone
Sqt Hornfels

Lithology Continued

Sst Sandstone

Sample Recovery

h High Recovery
m Moderate Recovery
n No Recovery
p Low Recovery

CN Chalcedony
CT Cuprite
CV Covellite
CX Clinopyroxene
DL Dolomite
DP Diopside
EP Epidote
FD Feldspar
FL Fluorite
GA Galena
GO Goethite
GR Graphite

Mineral Continued

GT Garnet
GY Gypsum
HB Hornblende
HD Hematite - dark grey
HE Hematite - red earthy
HG Hematite - steely grey
HR Hematite - red rock
HS Hematite - specular
KF K-Feldspar
KL Kaolinite
LI Limonite
MH Maghemite
MI Mica
MN Manganese
MT Magnetite
MU Muscovite
MY Molybdenite
NC Native Copper

Sample Quality

D Dry
M Moist
W Wet

Texture

amy amygdaloidal
bdd bedded
brx brecciated

Texture Continued

ear earthy
eqg equigranular
fri friable
lam laminated
mas massive
pph porphyritic
sch schistose
shr sheared
sor well sorted
tuf tuffaceous
uns poorly sorted
ves vesicular
xln crystalline

OL	Olivine
OP	Opal
OQ	Opaques
OX	Orthopyroxene
PH	Phlogopite

Metadata for Attachment 2 – RC Drill Details for Kiwi Prospect

Tenement Holder: Iron Mountain Mining Ltd.

Tenement Name: Cuprona, EL 6/2005

Activity which produced data: RC drilling program

Location of data: Attachment 2, EL62005_200909_03_RCdrilldetails.txt

Date: 24th – 29th September 2009

Parameters controlling data acquisition: N/A

Contractor producing data: EDrill Pty Ltd

Translation parameters required for conversion of data: N/A

Equipment used to generate data: Drill Rig PRD Multi Star 2000

Definition of codes:	EXP_STATUS	Export Status
	RC6	Reverse Circulation (6.0")
	RC8	Reverse Circulation (8.0")
	HMF	Hammer - Face
	CAS	Casing
	TRI	TriCone Bit
	D	Day Shift

Metadata for Attachment 3 – RC Collar Surveys for Kiwi Prospect

Tenement Holder: Iron Mountain Mining Ltd.

Tenement Name: Cuprona, EL 6/2005

Activity which produced data: RC drilling program

Location of data: Attachment 3, EL62005_200909_04_RCcollsvy.txt

Date: 24th – 29th September 2009

Parameters controlling data acquisition: N/A

Contractor producing data: EDrill Pty Ltd

Translation parameters required for conversion of data: N/A

Equipment used to generate data: Drill Rig PRD Multi Star 2000

Definition of codes:

RL	Height above sea level in metres
SVY_DEPTH	Survey depth in metres
AZ_REF	Azimuth reference
MAG	Magnetic North
CO	Azimuth measured from rig set up
MAG_INFLU	Magnetic influence
MT	Magnetite
RELIABIL	Reliability (0 = Unknown, 1 = Poor Reliability, 2 = Medium Reliability, 3 = High Reliability)
EXP_STATUS	Export Status (Y = exported, N = not yet exported)
IRM	Iron Mountain Mining Ltd
RVR	Red River Resources Ltd

Metadata for Attachment 4 – Assay Results

Tenement Holder: Iron Mountain Mining Ltd.

Tenement Name: Cuprona, EL 6/2005

Activity which produced data: RC drilling program

Location of data: Attachment 4, EL62005_200909_05_assays.txt

Date: 24th – 29th September 2009

Parameters controlling data acquisition: N/A

Contractor producing data: EDrill Pty Ltd (RC drilling), Amdel (XRF analysis)

Translation parameters required for conversion of data: N/A

Equipment used to generate data: Drill Rig PRD Multi Star 2000, and XRF analysis

Definition of codes: N/A