



**ARCHER EXPLORATION
LIMITED**

PROJECTS OVERVIEW

SACOME Breakfast July 2010

www.archerexploration.com.au

ASX : AXE

Disclaimer

- **Competent persons statement**

- The exploration results reported herein, insofar as they relate to mineralisation, are based on information compiled by Mr. Wade Bollenhagen, Exploration Manager of Archer Exploration Limited. Mr. Bollenhagen is a Member of the Australasian Institute of Mining and Metallurgy who has more than fifteen years experience in the field of activity being reported. Mr. Bollenhagen consents to the inclusion in the report of matters based on his information in the form and context in which it appears.

- **Forward looking statements**

- The information in this presentation is published to inform you about Archer Exploration Limited and its activities. Some statements in this presentation regarding estimates or future events are forward looking statements.
- Although Archer Exploration Limited believes that its expectations reflected in these forward-looking statements are reasonable, such statements involve risks and uncertainties and no assurance can be given that actual results and outcomes will be consistent with these forward-looking statements.

Background

ASX Listing 14th August 2007

Exploration Base – Adelaide
Projects – South Australia

Management Team

Mike Hatcher CEO

Wade Bollenhagen Expl.Manager

Board

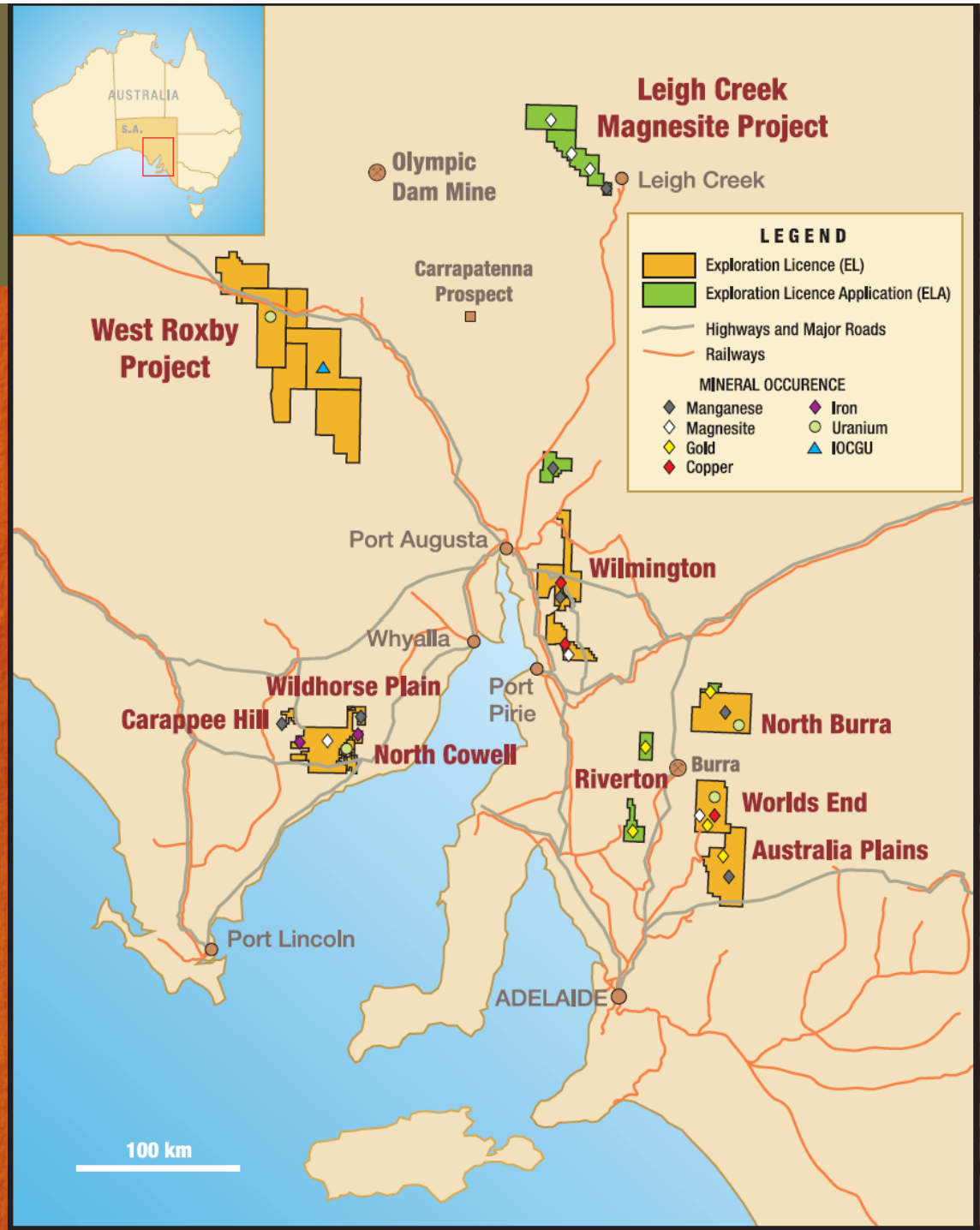
Greg English Chairman

Tom Phillips

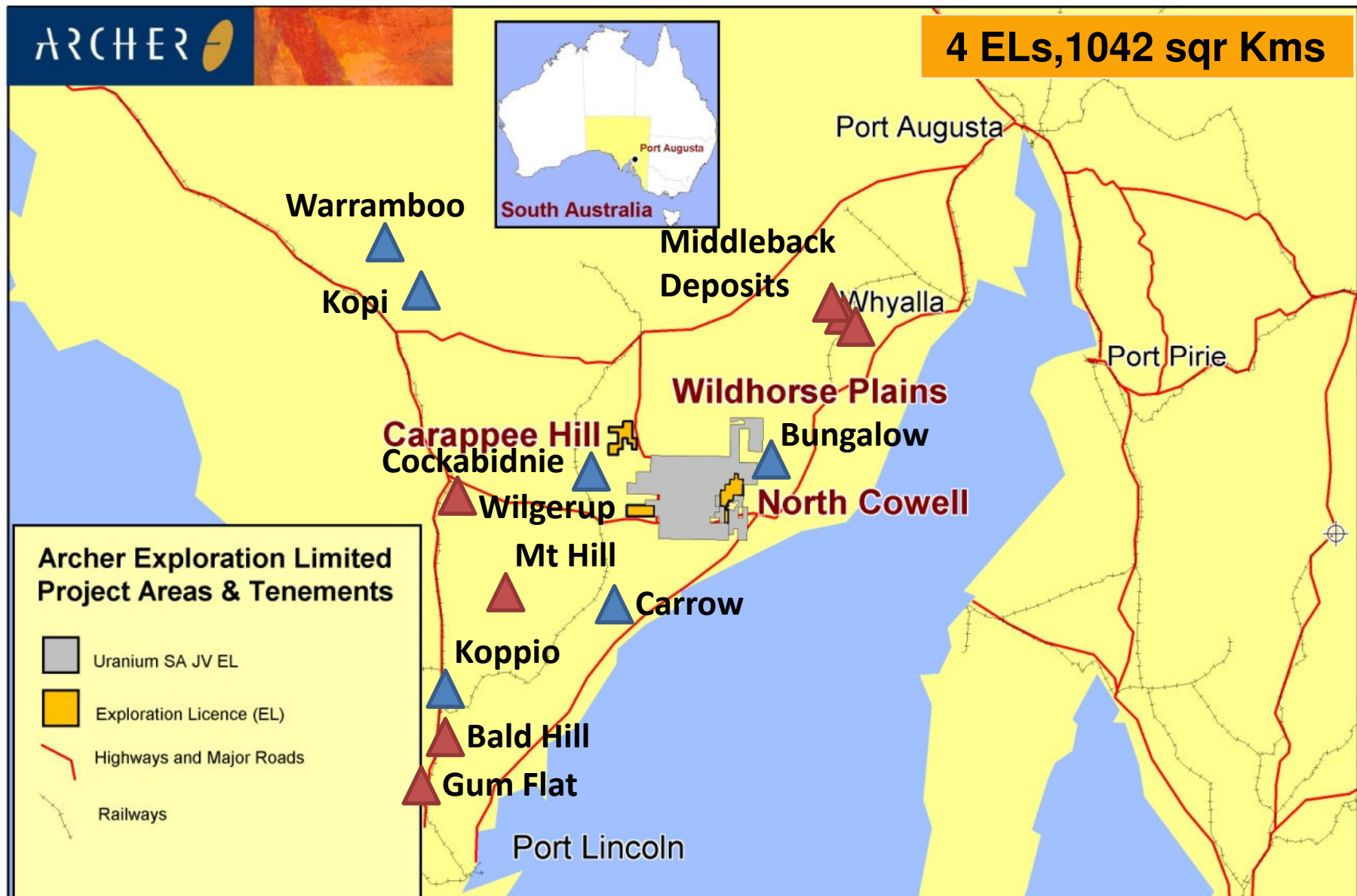
Gerard Anderson

Alice Cleary

John Dawkins



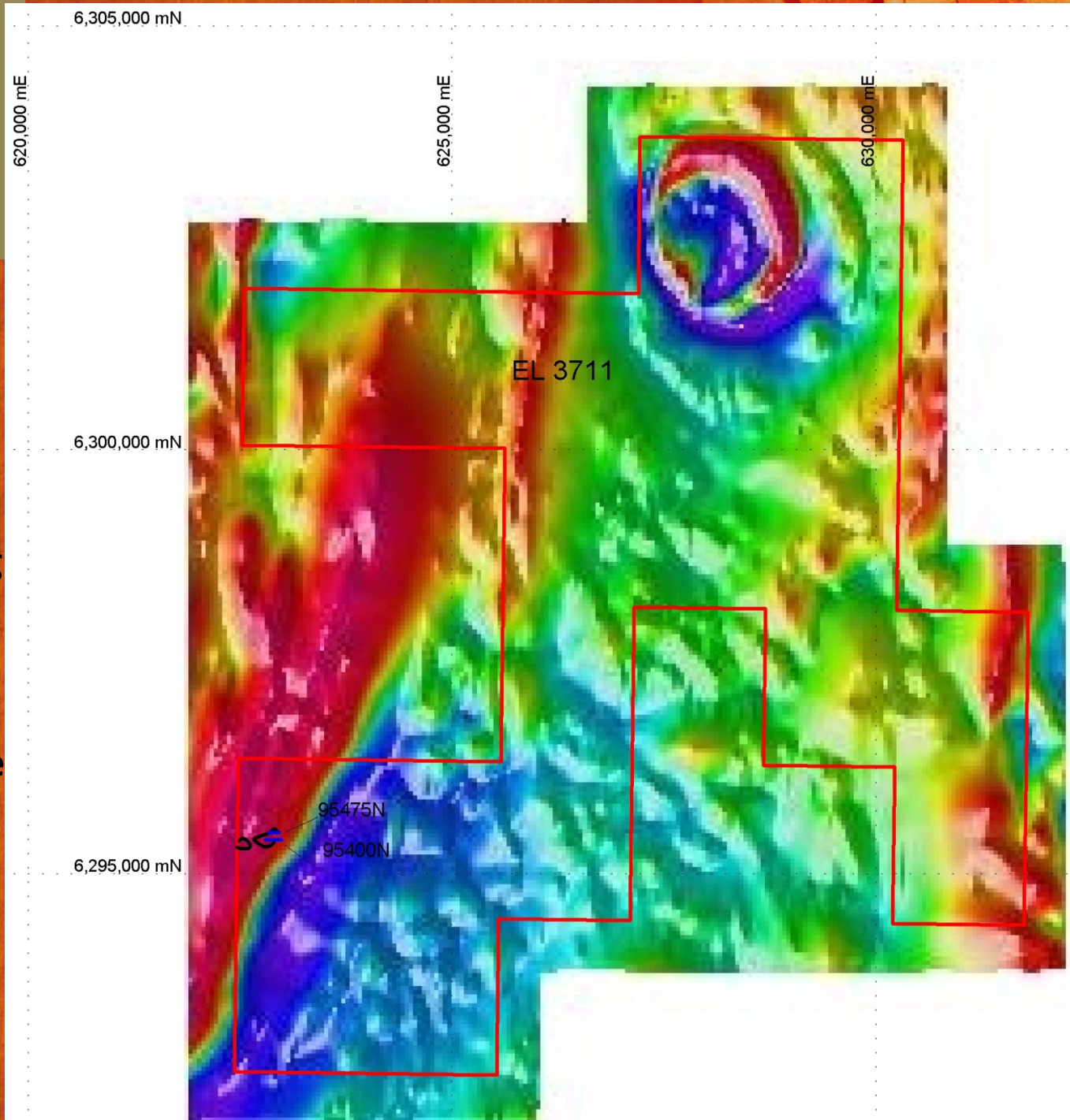
Eyre Peninsula Projects



Pindari Ni Magnetics

- Magnetic Anomaly
3 kms Diameter
- 1987 Stockdale Drilling
- 22m @ 0.19% Ni
Petrology
pentlandite & violerite

100% Equity



Pindari Ni Geochemistry

- 1 kms >0.1% Ni soil anomaly
- peak values 0.37% Ni, 0.34% Cr.
- correlation with magnetic anomaly

July

Drill 6 x 100m holes

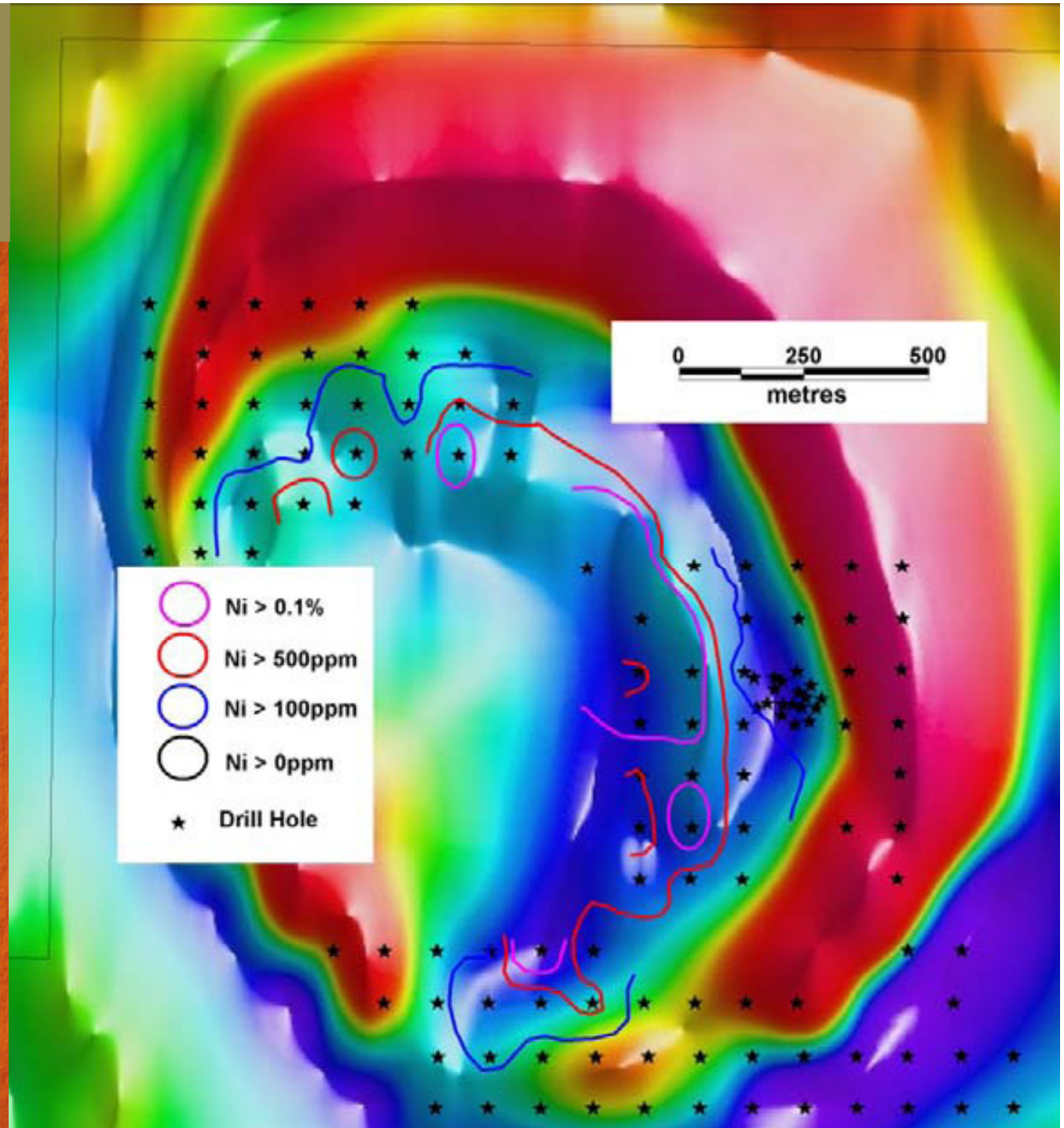
August

Analysis Results

Drill Contractor – Statewide

Assays - ALS

Drill supplies - Strength MS



Jamieson Tank

Mn/Fe

WMC (1993)

SJ41 11m @ 13%Mn 27% Fe from 12m.
5m @ 13% Mn 20% Fe from 41m.

SJ42 4m @ 18.9% Mn 14% Fe from 7m.
4m @ 17.6% Mn 15% Fe from 39m.

SJ45 5m @ 12.5% Mn 12% Fe from 37m.
SJ46 7m @ 10.9% Mn 23% Fe from 13m.
SJ47 10m @ 12.8% Mn 37.8% Fe from 17m.
SJ48 3m @ 22.8% Mn 15.2% Fe from 7m

Archer (2008)

CH14 9m @ 16.1% Mn 12.3% Fe from 41m
24m @ 12% Mn 12% Fe from 61m.

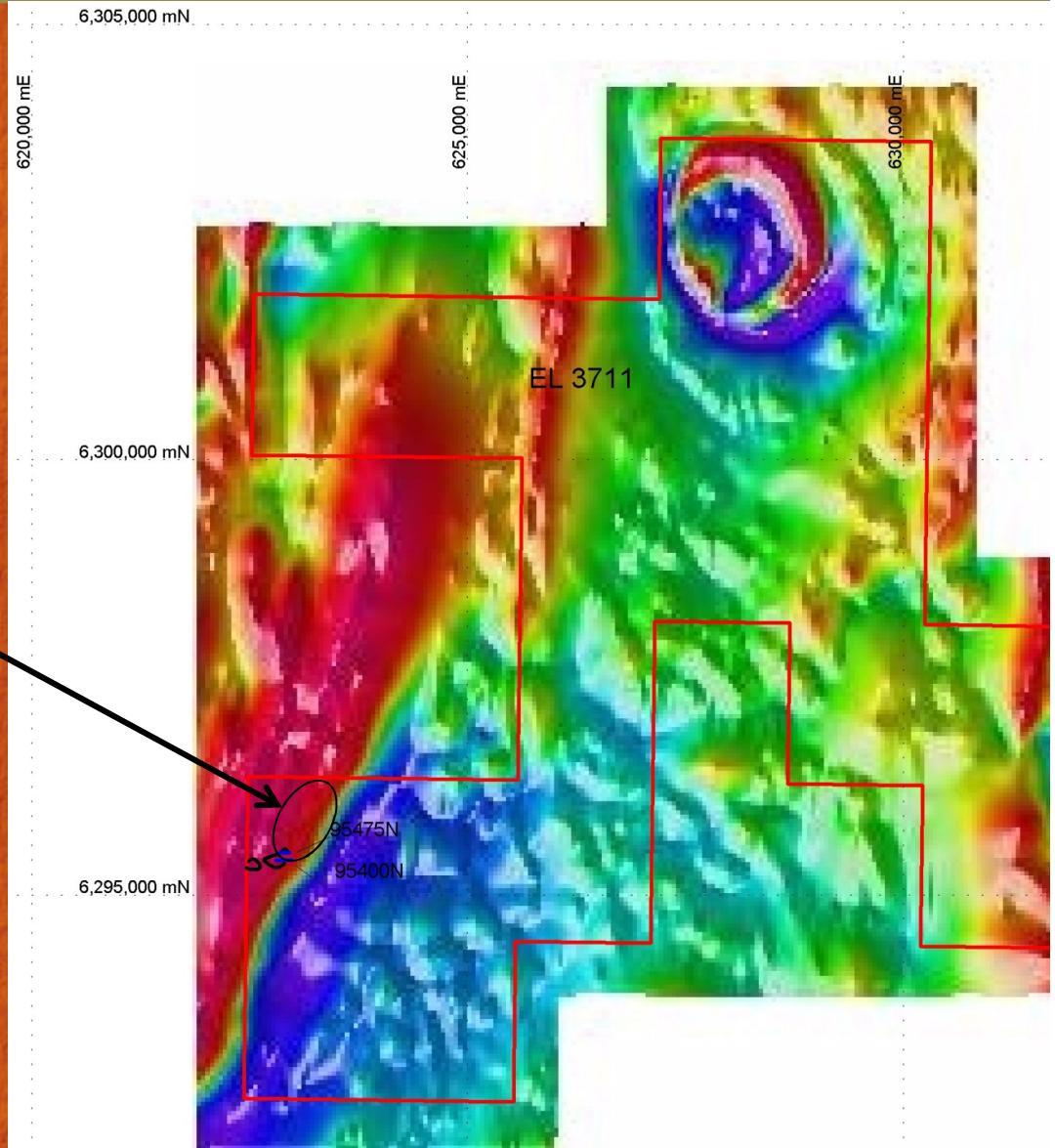
June 2010 OMM

Mn

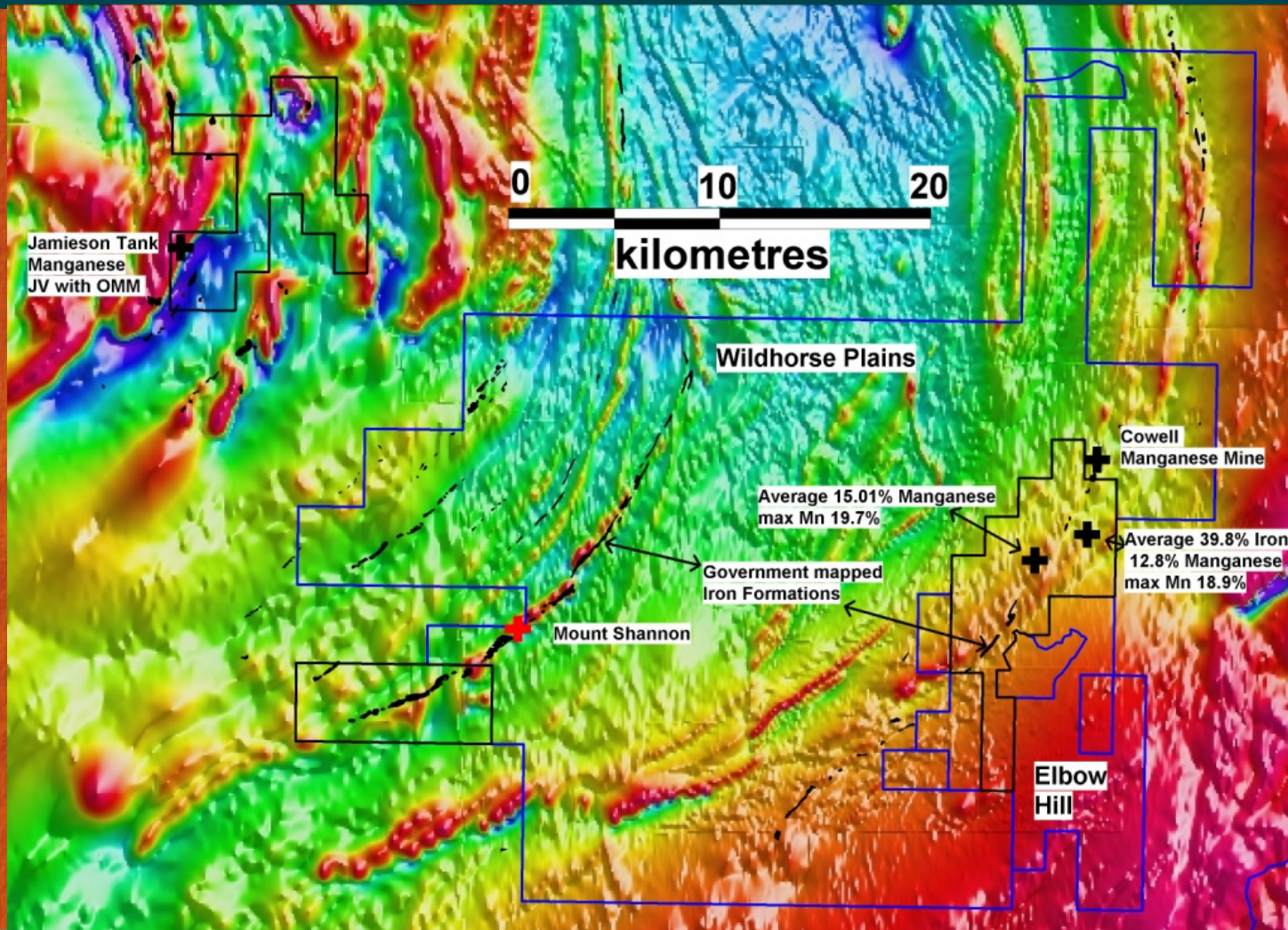
JTRC130 5m @ 14.6% Mn 7.4% Fe from 28m.
JTRC132 5m @ 10.5% Mn 9.9% Fe from 28m.
JTRC133 6m @ 15.0% Mn 10.7% Fe from 29m.
JTRC136 5m @ 11.1% Mn 8.1% Fe from 35m
JTRC141 10m @ 12.6% Mn 20% Fe from 33m

Fe

JTRC144 16m @ 35.3% Fe from 5m
5m @ 55.8% Fe from 16m to EOH
JTRC145 2m* @ 50.5% Fe from 4m



WILD HORSE PLAINS



Wild Horse Plains

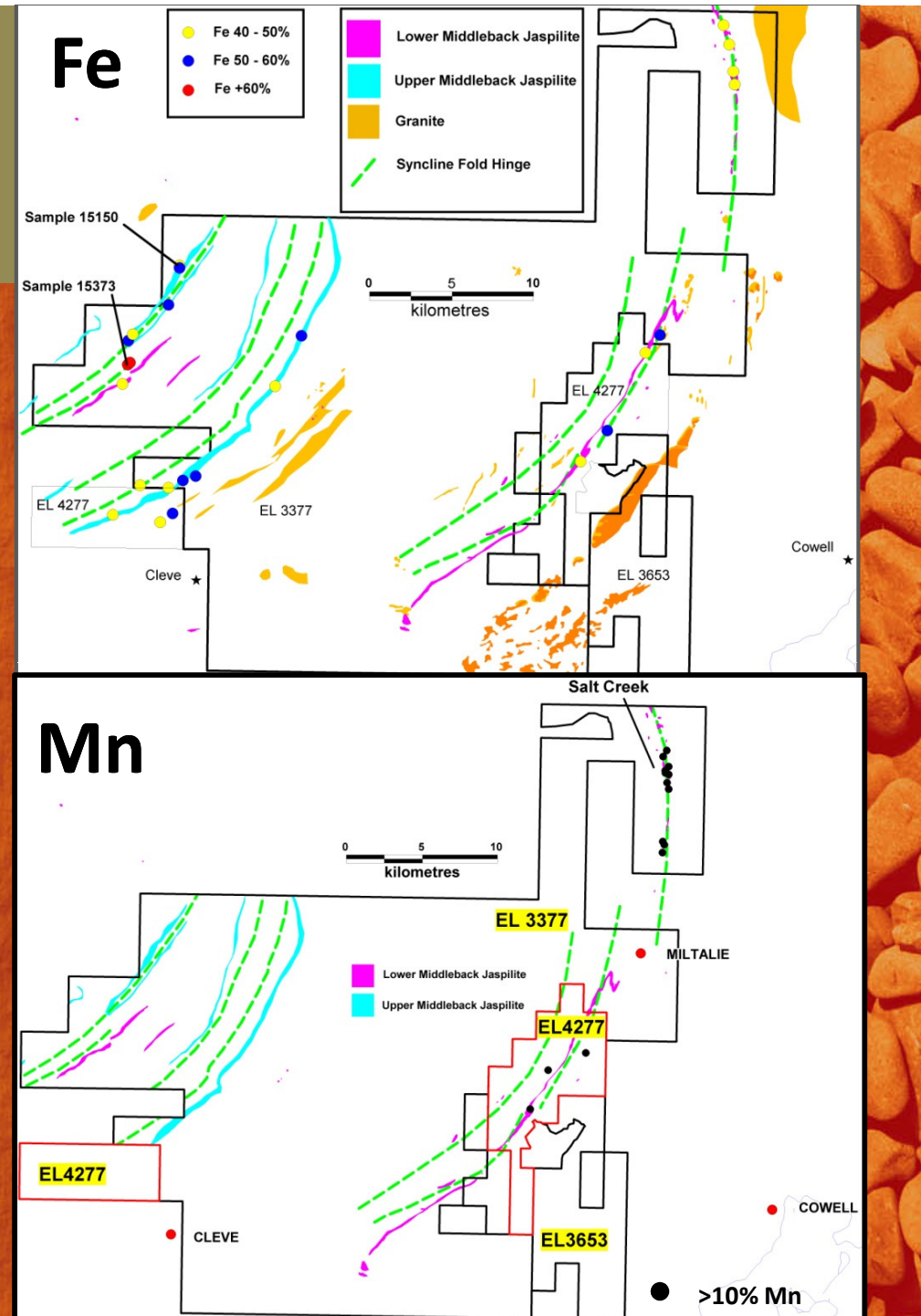
Mn/Fe

Early Stage Exploration

- Farmin Agreement USA Feb 2010
- Mn/Fe - 4 Target Areas Defined

Next Step

- Drill Fe/Mn targets Q4
- Results Late 2010



Manganese

4th Most consumed Metal after Fe, Al, Cu

Increases steel hardness, toughness, stiffness, wear resistance



Mantle for Cone Crusher



**Bearings, pins
bushes**



**Lithium
Manganese
Battery**

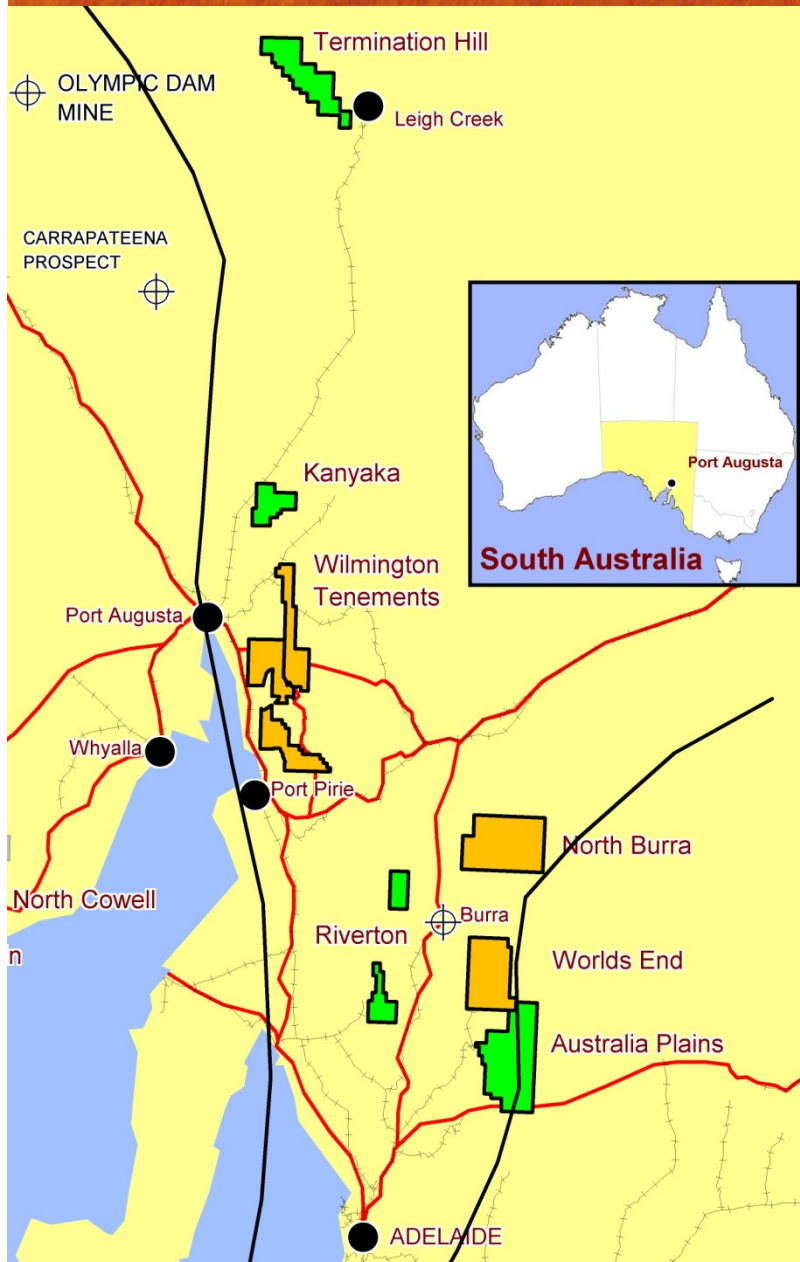


**Wear Plates –
Grader Blades**



Wear resistant steels have up to 14% Mn

Manganese - Adelaidean



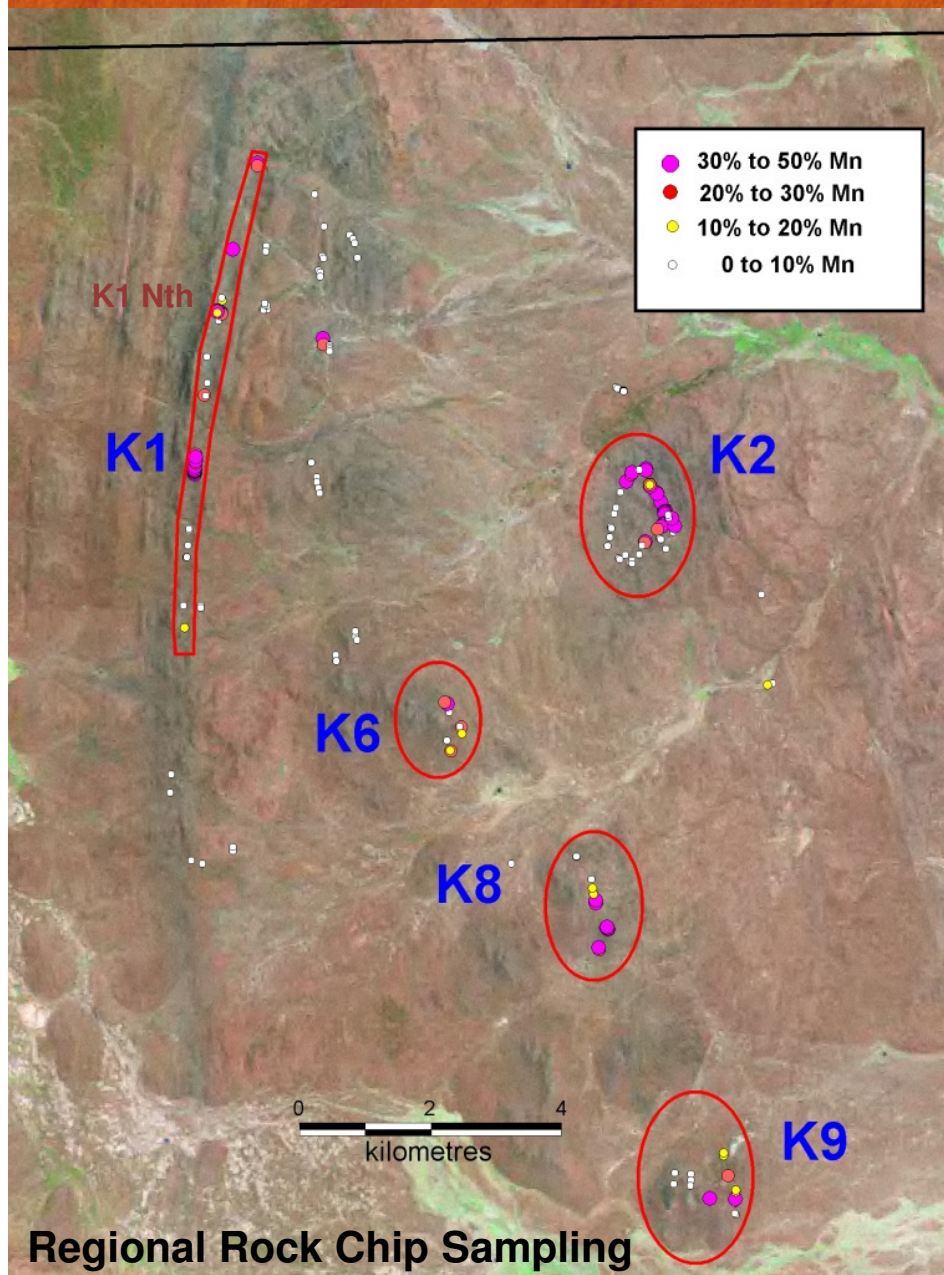
Target high grade Manganese DSO

- Historic WW2 DSO Sites
- WA DSO model eg 360kms to Port
- Tenements Near Transport Infrastructure
- In remote locations, reduced land use conflict
- 100% equity

Targets

- Ketchowla – Shallow drilling Feb 2010
- Australia Plains – Neales Flat Mn Mine
- ELA (30/10) – Kayaka Mn Mine
- ELA (31/10) – Termination Hill (Stone Hut Mn Mine)

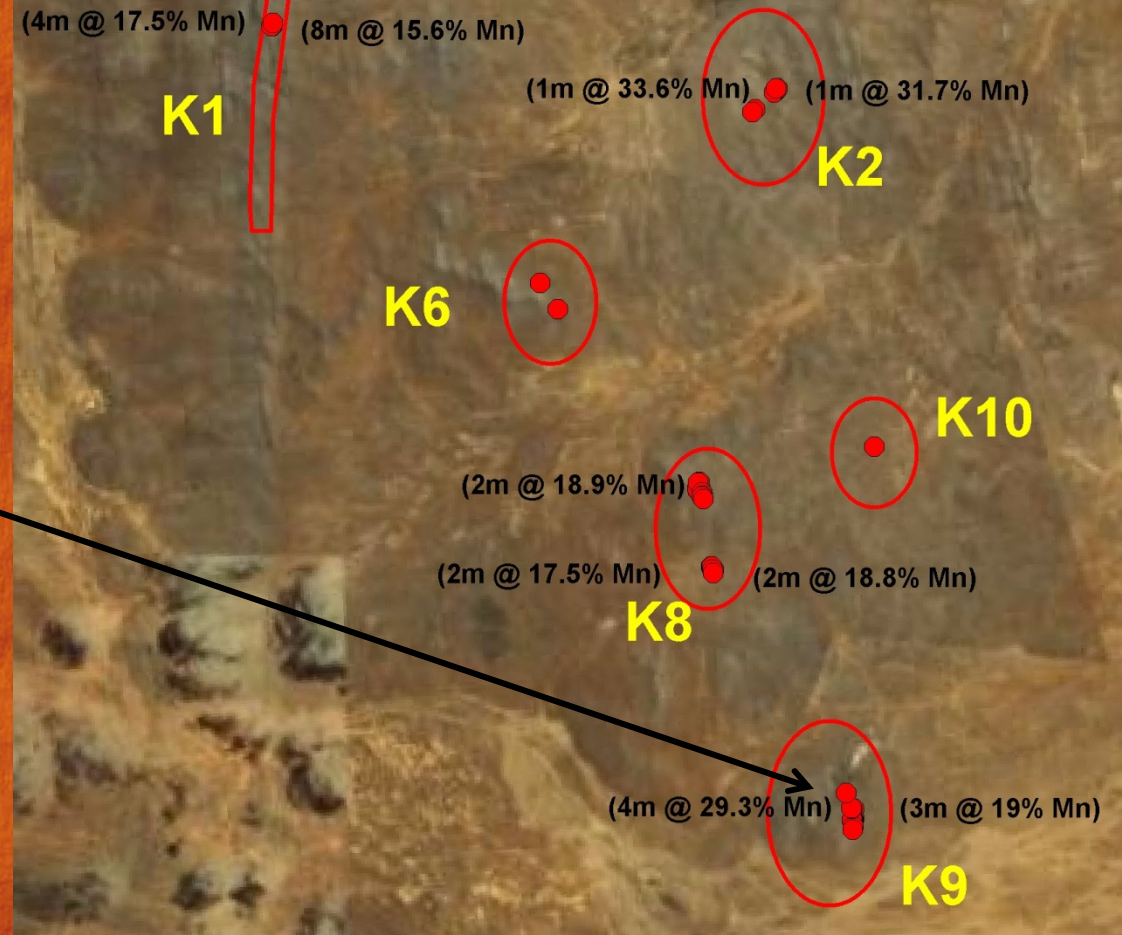
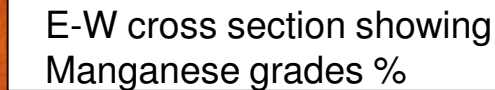
Ketchowla Manganese



2010 Q3 & Q4

Evaluate Kanyaka

Evaluate Stone Hut



Pending Project Leigh Creek Magnesite*



Regional Historic “Resources”

Area	Measured	Indicated	Inferred	MgO
Pug Hill		10	10	42.7%
Termination Hill	4	5	20	42.8%
Mt Hutton	18.3	42	53	42.9%
Mt Playfair		10	10	42.7%
Witchelina	23.7	94	99	40.0%

Source: SAMAG Project Report 1999

- High quality > 42% MgO
- Low impurity magnesite chemical sediment
- Large outcropping Deposits
- Adjacent to existing rail link & infrastructure

LCM - Order of Magnitude Study



MgCO_3



Crushed MgCO_3



MgO



Calcined natural

Deadburned

Electrofused

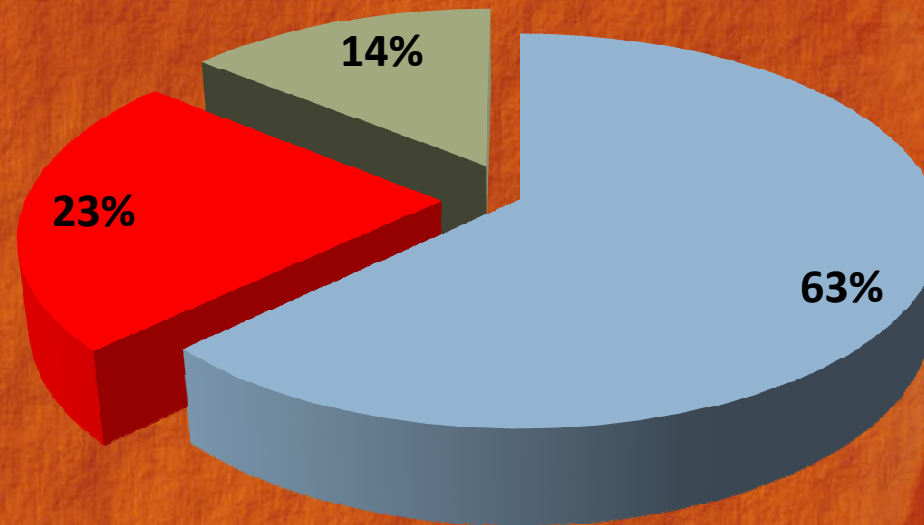


Markets

- Mg Metal
- Steel Refractory
- MgO Chemical



Leigh Creek Magnesite Market



■ Refractory ■ Chemical ■ Metal

Magnesium Metal

Refractory MgO

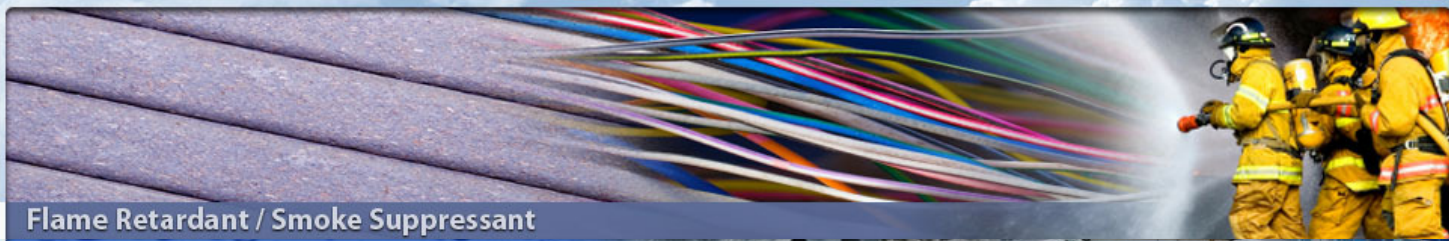


Leigh Creek Magnesite Market

MgO Chemical Applications



Electric Utilities



Flame Retardant / Smoke Suppressant



Wastewater & Water Treatment



Agricultural



Food Grade

MgO Board



- MgO Board approved for construction in US 2003 – Florida Mold Resistant
- Beijing Olympics preferred construction material - Internal & external

Next Steps

Tenement granted

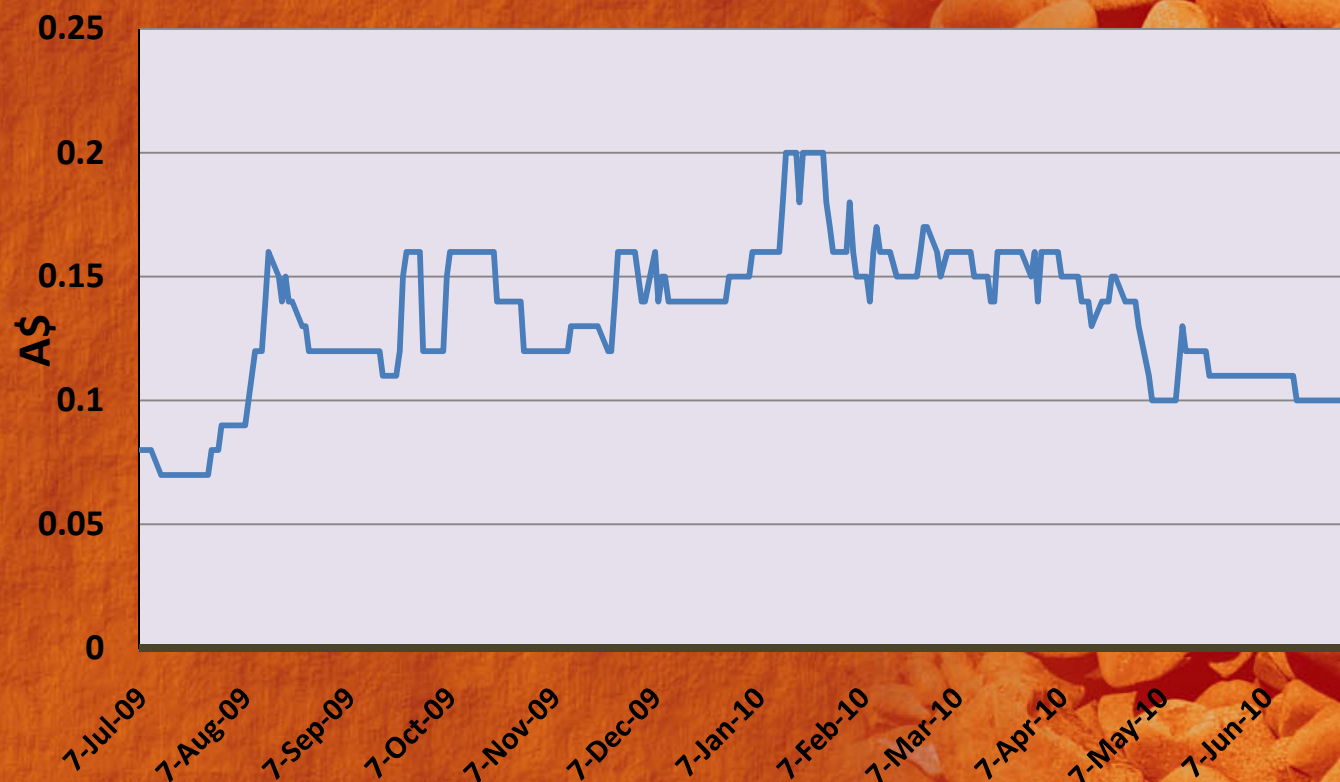
1 tonne Flash Calcining Trial Q4 2010 Baccus Marsh Calix

Order of Magnitude Study complete end Q3.



ARCHER ASX:AXE

Archer Share Price



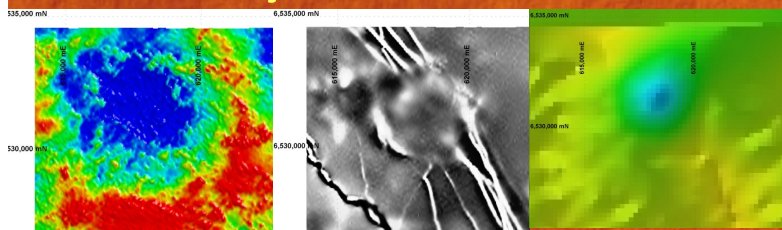
Share Price **\$0.085**
Shares **64.42m**
Market Capitalization **\$A 5.47m**
Cash on Hand **\$A 3.92m (June 2010)**

Major Shareholders June 2010

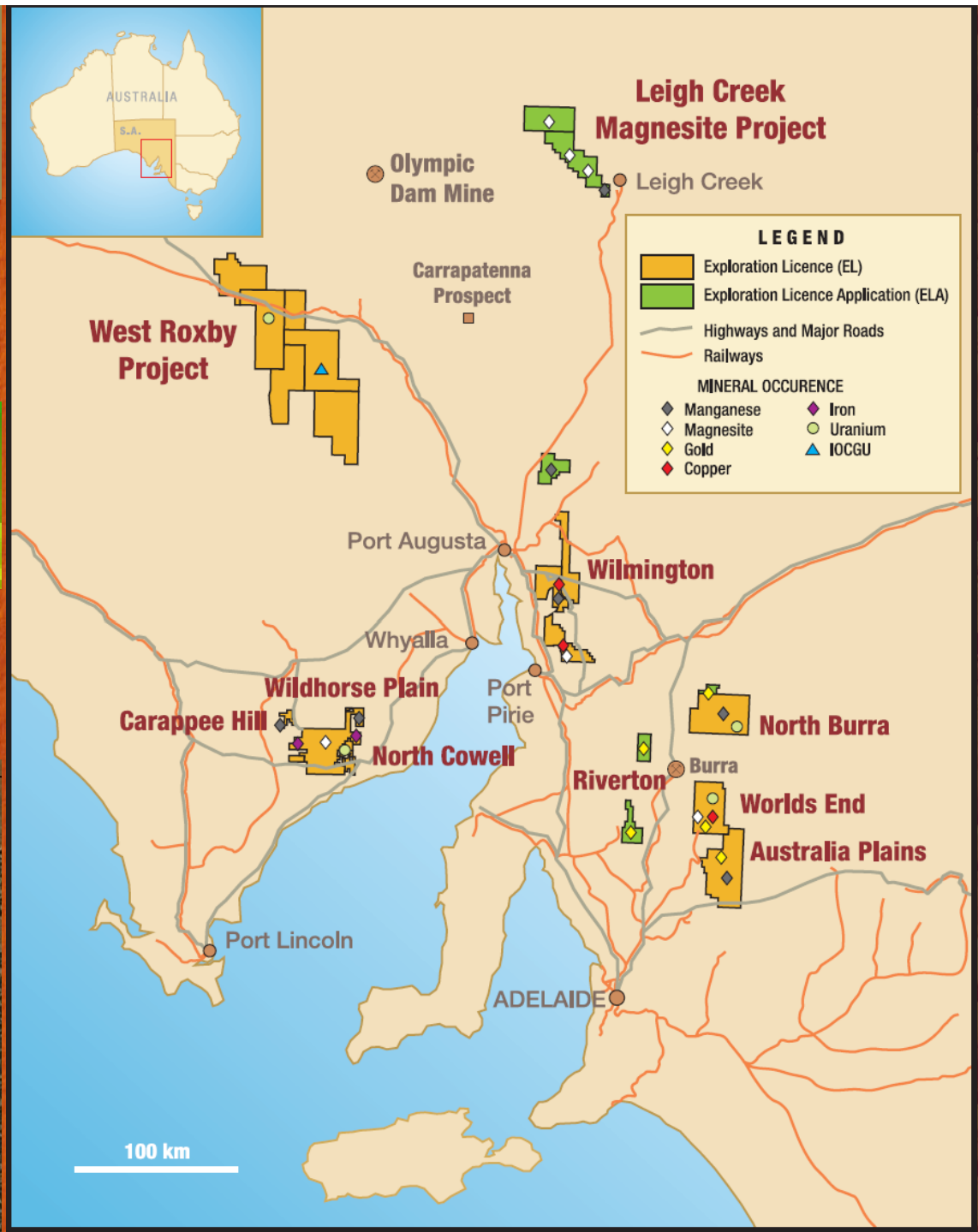
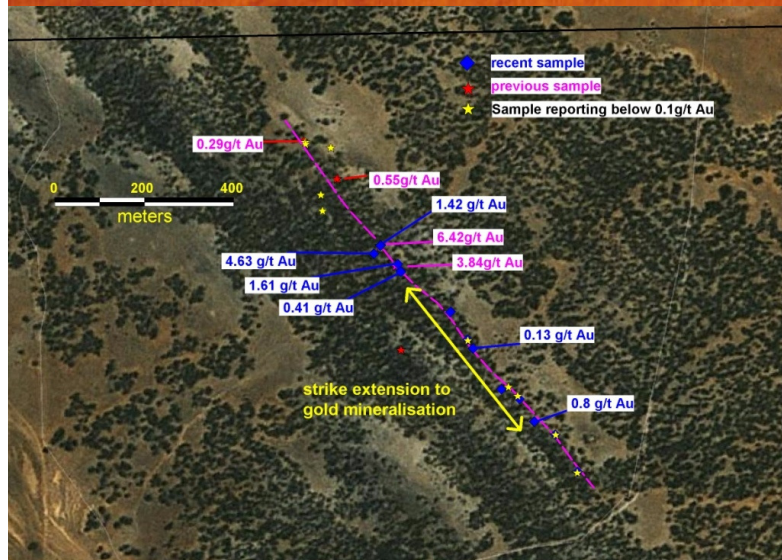
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|----|--|--------|
| 1. | Raffles Equities Ltd | 18.19% |
| 2. | GDE Expl.(SA) Pty Ltd (Dragon Mining Investment A/C) | 11.69% |
| 3. | GDE Exploration (SA) Pty Ltd (A1 English Family) | 5.54% |
| 4. | Valentina Nowak | 4.05% |
| 5. | UraniumSA | 3.10% |

Other Projects

West Roxby Uranium



Nth Burra –Riverton Gold



OUTLOOK 2010 -11

ARCHER



INVESTOR PRESENTATION 2010