## **Falcon Minerals Limited**

# Annual General Meeting

Ron Smit, Managing Director November 2011



## **Disclaimer**

#### **Forward Looking Statement**

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#### **Competent Persons Statement**

The information in this presentation that relates to Exploration Results & Targets is based on information compiled by Mr Ronald Smit B.Sc. (Hons), who is a Member of The Australasian Institute of Mining and Metallurgy. Mr Smit is a full time employee of Falcon Minerals Limited and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves". Mr Smit consents to the inclusion in the documents of the matters based on this information in the form and context in which it appears.

### **Exploration Target**

Exploration Targets are conceptual in nature and there has been insufficient exploration or due diligence to define a Mineral Resource under the JORC Code and it is uncertain if further exploration will result in the determination of a Mineral Resource.



## **Corporate Overview (ASX: FCN)**

#### **Core Business**

Mineral Exploration: discovery and/or acquisition of high-quality mineral deposit

Advanced Ni Play – Collurabbie WA Promising gold play – Saxby QLD



### **Capital Structure**

Ordinary shares 163.6 M

Market Cap. \$9.8 M (at \$0.06)

Cash \$3.0 M

Major Shareholder Xstrata (14%)

#### **Board of Directors**

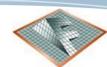
Richard Diermajer Chairman

Ron Smit Managing Director

Ray Muskett Non-executive Director

Management

Dean Calder Company Secretary



## **Project Location – Company Assets**

## Core Projects (100% FCN)

- Collurabbie Nickel
- Saxby Gold

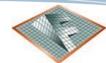
### Greenfields Projects (100% FCN)

- Peak-Denison IOCG
- Cloncurry IOCG

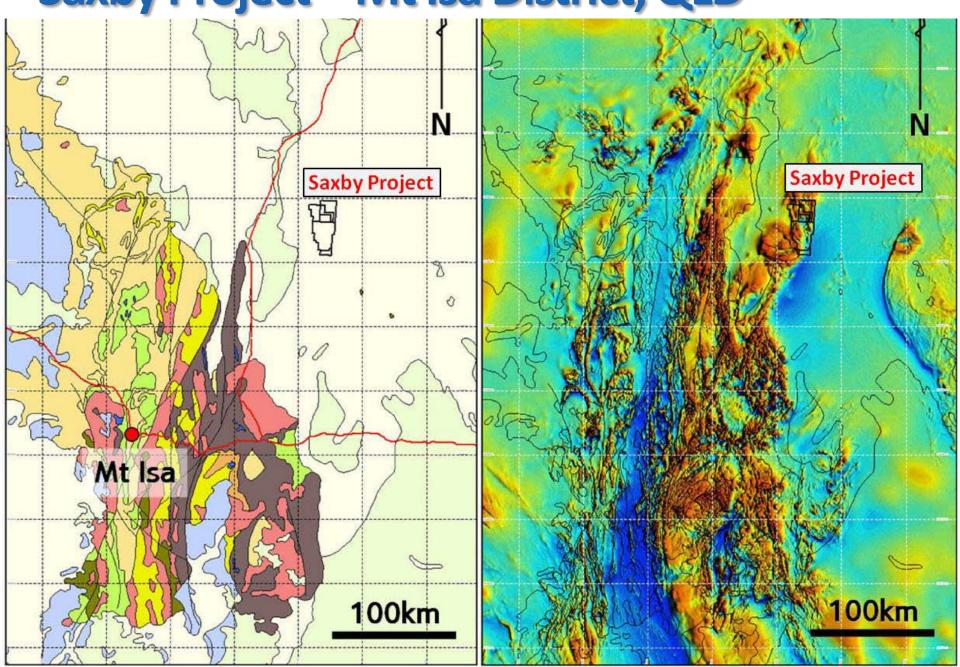
### JV Projects

- Duketon Ni, Au
- Windanning Au, Fe

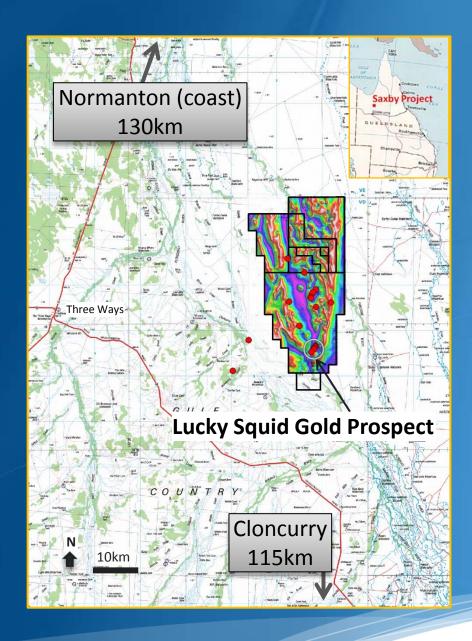




Saxby Project – Mt Isa District, QLD



## **Saxby Project**



### **FAST FACTS**

150km north of Cloncurry

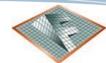
Gulf country – Carpentaria Basin

400m of cover rocks

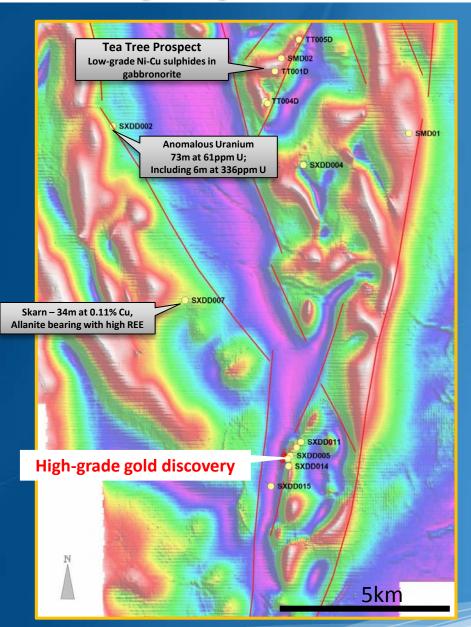
Buried basement rocks belong to Eastern Succession of Mt Isa Province

Long & proven record of mineral endowment

- Ernest Henry, Osborne Cu-Au
- Cannington Ag-Pb-Zn
- Merlin Mo–Re
- Mary Kathleen U-REE
- Tick Hill Au



## **Saxby Exploration History**

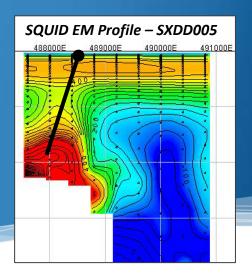


19 DDH's in > 400 sq km (Falcon 14 holes)

Drilling targeted gravity, magnetic and EM responses.

### High success rate:

- Ni-Cu sulphides in gabbro
- Anomalous uranium / REE
- Anomalous base metals
- Significant gold intercepts





## **Lucky Squid Gold Prospect**

### Anglo American 2008 SXDD005

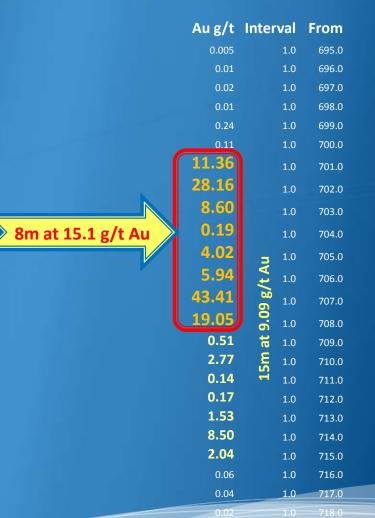


9m at 11.27 g/t Au



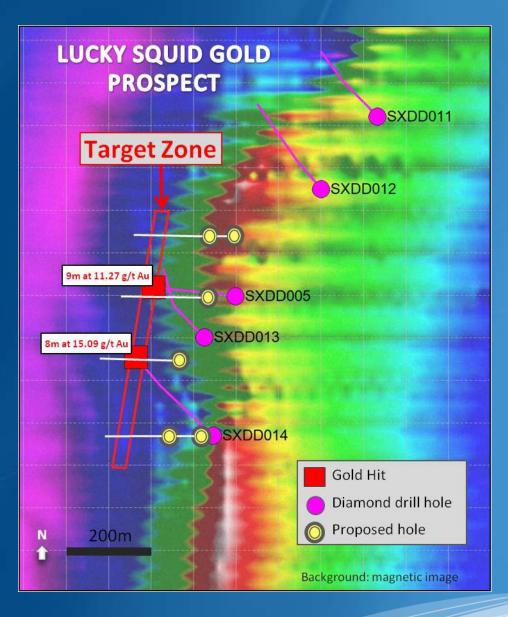
	Au g/t	Interval	From
	0.00	2.0	608.0
	0.01	2.0	610.0
	0.00	2.0	612.0
	0.84	2.0	614.0
	0.14	1.8	616.0
	6.80	1.4	617.8
	1.36	1.8	619.2
	0.20	2.0	621.0
	0.01	2.0	623.0
	0.02	2.0	625.0
	0.01	2.0	627.0
	0.01	2.0	629.0
	1.23	2.0	631.0
	1.21	2.0	633.0
	3.66	1.7	635.0
>	54.00	0.8 1.2 at 6.75 g/t Au 2.0 2.0 2.0 2.0	636.7
	88.40	0.5	637.5
	<u> 1.45</u>	2.0	638.0
	0.03	2.0	640.0
	3.69	€ 2.0	642.0
	0.11	2.0	644.0
	2.86	2.0	646.0
	0.01	2.0	648.0
	0.00	2.0	650.0
	0.01	0.9	652.0

# AngloGold 2010 SXDD014





## **Lucky Squid Gold Prospect**



SXDD005 chance gold discovery

SXDD014 confirmed gold system

Gold intersections 180m apart & open in all directions.

Structurally controlled – igneous rock/sedimentary rock contact

Broad alteration zone

Gold mineralisation associated with late pyrite

Major north-trending fault

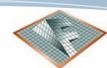
### **PLANNED WORK**

6 diamond holes proposed (4,800m)

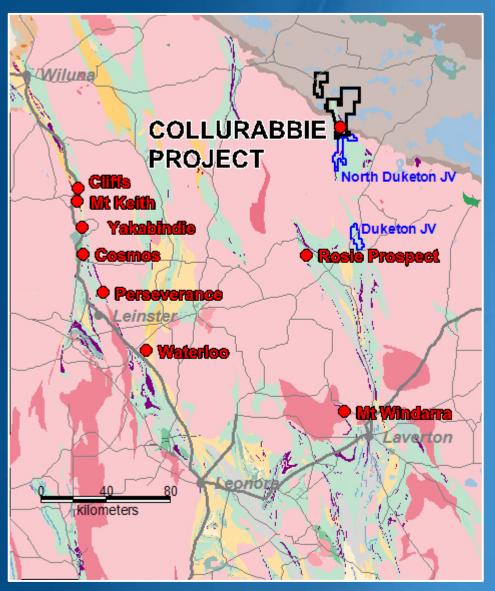
Objective to show potential for > 1 Moz gold

Budget allocation ~ \$1.2M

Drilling start-up date mid-April 2012



## Collurabbie Project – Yilgarn Block WA



### **FAST FACTS**

240 km north of Laverton

Archaean greenstone belt, Yilgarn Block

Poor exposure & variable regolith

Increasing cover thickness to the north

Strong tenement position

### **EXPLORATION HISTORY**

2003: WMC discover disseminated Ni sulphides along Beta Sill

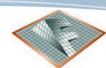
2004: Massive Ni sulphides discovered at Olympia on Falcon JV followed by 2 yrs of accelerated expl.

183 DDH/RC Holes; 231 AC Holes

Hiatus

2009: Falcon regains 100% ownership

2010/11: Diamond drilling (25 Holes)
Olympia & Spartacus



## Olympia Prospect – massive sulphides

19 diamond holes by Falcon at Olympia (Total ~ 45 DDH/RC holes).

Continuous massive Ni-Cu-PGE sulphides intersected over 300m strike.

Ore lenses show pinch-and-swell structure (0.5m to 9.65m wide).

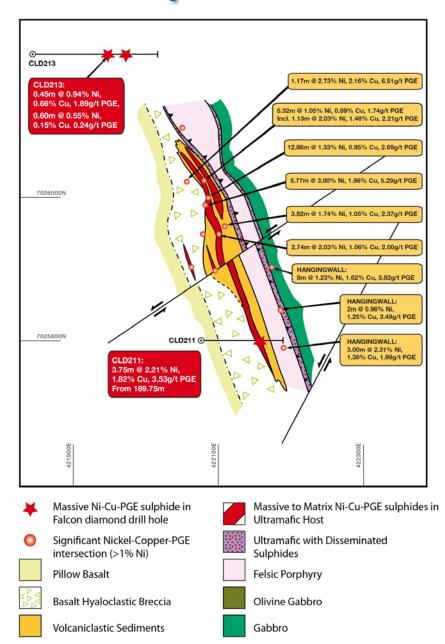
Consistently high Cu (>1%) and PGE values (>2g/t Pt +Pd).

Recent hole (CLD211) extended mineralisation to the south

3.75m at 2.2 % Ni, 1.8 % Cu & 3.5 g/t PGE

Next deliverable – JORC Resource

Exploration Target: 300,000-600,000t at 1-2% Ni, 1-1.5% Cu, 2-3g/t PGE



## Spartacus Prospect – disseminated sulphides

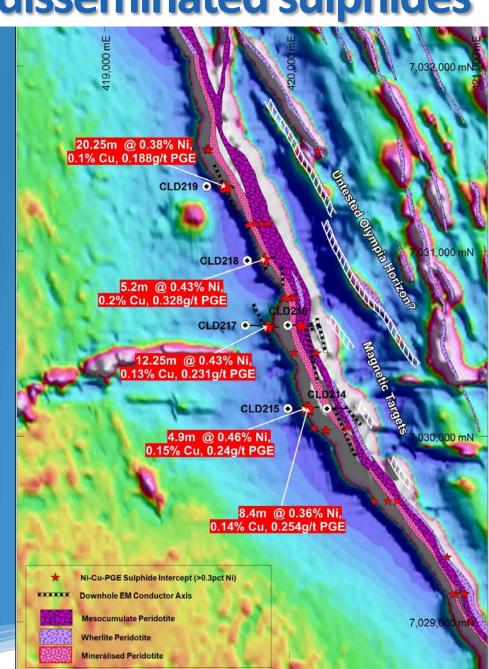
6km North of Olympia.

Beta sill; lower stratigraphic position than Olympia.

Wide-spaced drilling by WMC/BHPB detected disseminated Ni-Cu-PGE sulphides over several km's.

6 diamond holes by Falcon targeted thicker portions of Beta sill.

Broad low-grade sulphide mineralisation confirmed over many strike km.



## **Observations**

#### Beta Sill

Drilling concentrated on Beta Sill

Long & linear – passive pancake

Broad low grade disseminated Ni sulphides (Spartacus)

Better grades where structural disruption ie Troy

### Olympia

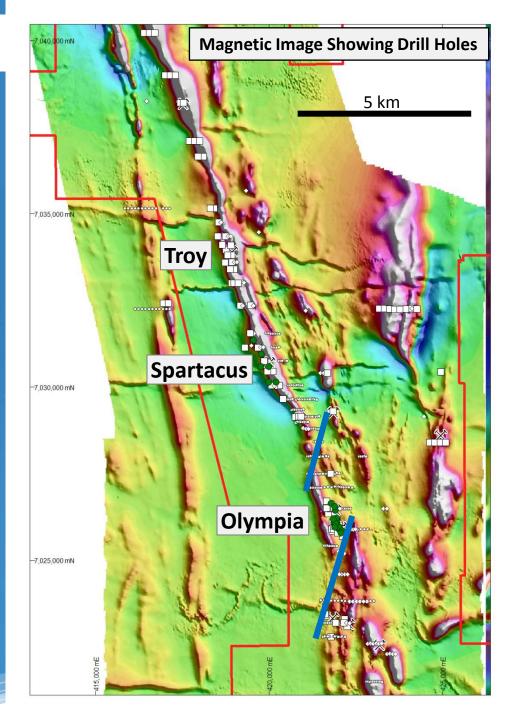
Higher stratigraphic position than Beta Sill

Much weaker magnetic feature

Sub-volcanic environment; more dynamic Higher grade mineralisation

Structural control

where to explore....



## **New Targets**

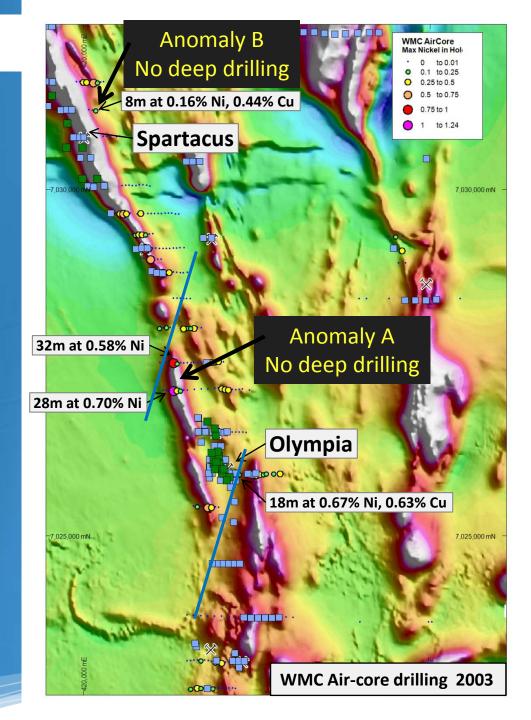
Regional air-core drilling locates Olympia;
Other multi-element anomalies untested

### Anomaly A

Beta Sill host Excellent Ni geochemistry Unlikely to be supergene upgrade Adjacent to cross-structure No deep drilling

### **Anomaly B**

Olympia trend Elevated Ni-Cu-PGE geochemistry Likely to be sulphide source No deep drilling



## in Review

### Saxby Project – 100% Falcon

#### **Year in Review**

AngloGold Ashanti JV
5 diamond holes drilled in June - August 2010
High-grade gold reported in SXDD014
Partner withdrew from JV in February 2011

#### **Target Description**

High-grade gold mineralisation

#### **Investment Rationale**

Previous gold hits have de-risk the project Geological & structural understanding advanced

#### **Outlook**

**Drill six diamond holes starting mid-April 2012** 

#### **Next Decision Point**

Q3 - 2012

### **Collurabbie Project – 100% Falcon**

#### **Year in Review**

19 diamond holes at Olympia – better understanding of its geometry

6 diamond holes at Spartacus – broad zones of disseminated mineralisation confirmed

#### **Target Description**

Disseminated & massive Ni-Cu-PGE sulphides

#### **Investment Rationale**

Fertile nickel belt New structural approach & new targets

#### Outlook

#### **Revised target selection**

Aircore /RC drilling? Resource for Olympia

Next Decision Point O1 - 2012





## **Thank You**

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