



# *'Unveiling a New Nickel Sulphide Camp in WA: 2015 Drilling Begins'*

18 June 2015  
Gold Coast Investment Conference



# Positioned for Exploration Success

## Drilling High Quality Targets

- Systematic exploration has de-risked the project
- Near term value drivers

## Emerging Nickel Camp

- Capacity to host multiple nickel sulphide deposits
- Similar geology to Forrestania and Agnew-Wiluna

## High Leverage to Drilling Success

- Tight capital structure maximises shareholder wealth

# Corporate Overview

# Corporate Snapshot

## Board - *Skills to deliver exploration success and company growth*

**John PRINEAS**, Chairman - over 25 years experience in the banking and legal sectors, including the head of a financial institution in Australia, with a focus on financing and corporate advice to mining companies. Founding shareholder and chairman of St George Mining.

**Tim HRONSKY**, Technical Director - 25 years as a geologist in the exploration and mining industry, including 15 years with Placer Dome Inc., where he was Exploration Manager for Asia.

**Sarah SHIPWAY**, Non-Executive Director and Company Secretary – Chartered Accountant with extensive experience in providing advice to listed exploration companies. Also a director of Argent Minerals (ASX: ARD) and Beacon Minerals (ASX: BCN).

## Business Model - *Exploration Focus*

- Target projects that are prospective for world class deposits
- Systematic and disciplined exploration to achieve discovery and create wealth
- Maintain very low admin/corporate costs to maximise returns for shareholders; money goes into the ground

# Highly Qualified Technical Team

## Technical Team – *Successful Track Record in Nickel Sulphide Discovery*

**Newexco** - Leading geophysical consultants in nickel sulphide exploration. Advisers on Nova-Bollinger deposit for Sirius Resources NL (ASX: SIR) and the Spotted Quoll and Flying Fox deposits for Western Areas Limited (ASX: WSA).

**Dr Jon HRONSKY** – Consultant geologist, globally recognised as a nickel expert with industry leading credentials in the area of exploration targeting for nickel sulphide deposits. A principal at geological firm Western Mining Services. Previously, Manager-Strategy & Generative Services for BHP Billiton Mineral Exploration and before that the Global Geoscience Leader for WMC Resources. Dr Hronsky is currently Chairman of the Centre for Exploration Targeting in WA.

**Barbara DUGGAN** – Senior geologist with international exploration experience in nickel systems and Archaean gold deposits with a focus on target generation and mineralisation vectoring in exploration. As part of INCO Exploration's project generation group and then with BHP Billiton Nickel West, targeted and explored for nickel deposits in Sudbury, Voisey's Bay, Thompson and the Agnew-Wiluna belt and has been involved with the discovery of over 1Mt Ni.

**Matthew McCARTHY** – Consultant geologist formerly with BHP Billiton Nickel West, where he was part of the team that made the recent discovery of the significant Venus nickel sulphide deposit (300,000+ contained Ni) at Leinster. Also managed the previous farm-in between St George and BHP Billiton Nickel West, which discovered nickel sulphides at East Laverton in 2012.

# Capital Structure

Share Capital	
Listed Shares (ASX: SGQ)	131,839,670
Listed Options (ASX: SGQOA)	18,602,469
Market cap (@9c)	\$11m
Top 20	43%
Top 3	18%
Management	9%

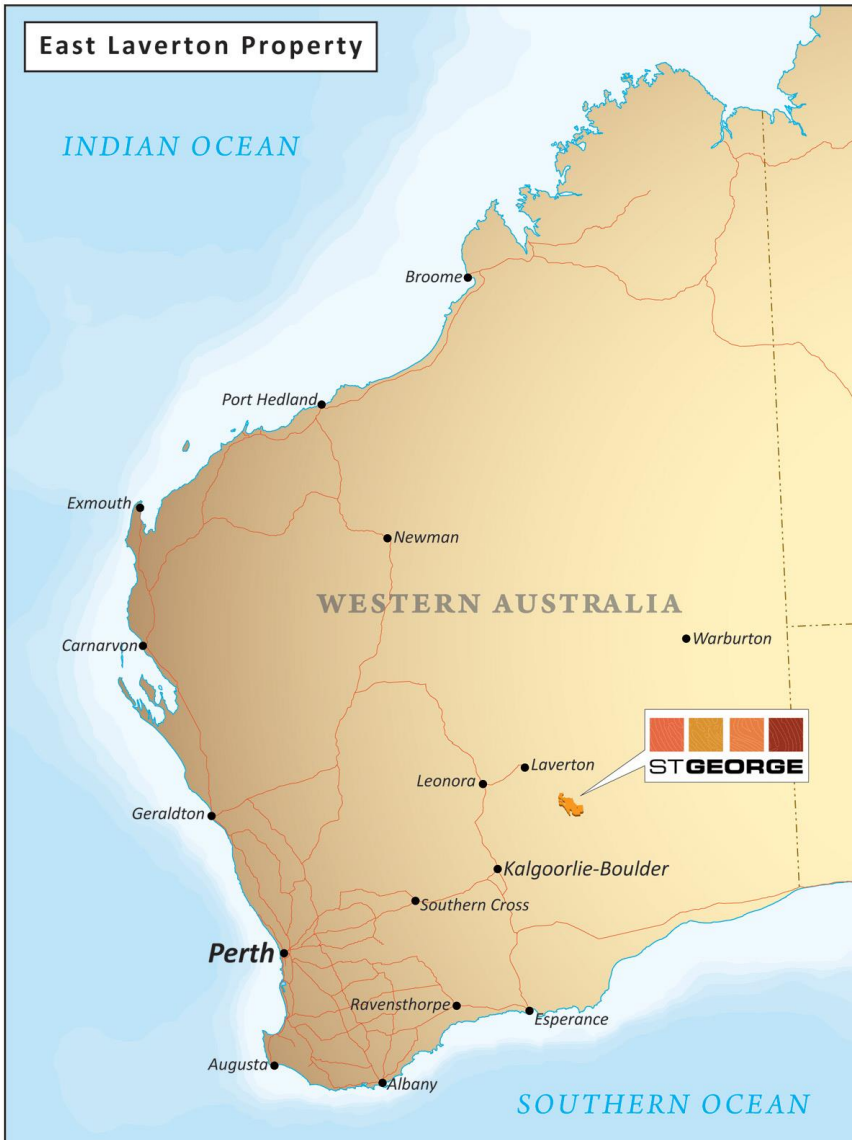
*Listed Options (SGQO): Exercise price of 20 cents, expiring on 30 June 2017.*

*Unlisted Options: 1,000,000 options with 40 cents exercise expiring 28 November 2015; 3,029,525 options with 30 cents exercise expiring 30 June 2016.*

*Performance Shares: 100 Performance Shares expiring 16 November 2015.*

# **East Laverton Property: An Emerging Nickel Camp**

# A Rare and Significant Nickel Project



## Frontier Location

- +2,000 sq. km contiguous and dominant landholding
- Under-explored area where major discoveries are still possible
- Large scale nickel prospectivity recognised by BHP Billiton farm-in (now concluded)
- No native title – no nature reserves
- Safe jurisdiction - WA



# Nickel Project Location Plan

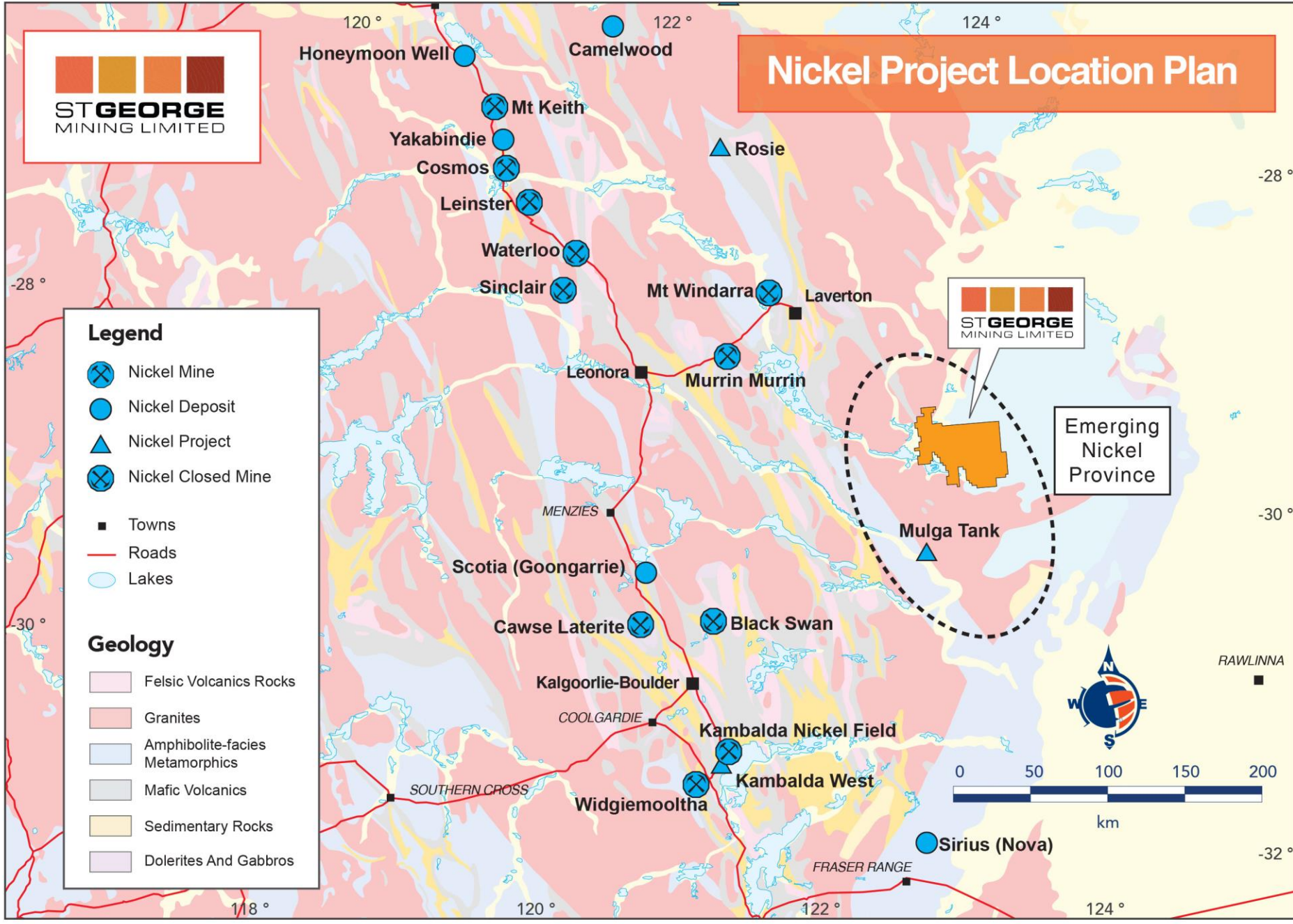


## Legend

- Nickel Mine
- Nickel Deposit
- Nickel Project
- Nickel Closed Mine
- Towns
- Roads
- Lakes

## Geology

- Felsic Volcanics Rocks
- Granites
- Amphibolite-facies Metamorphics
- Mafic Volcanics
- Sedimentary Rocks
- Dolerites And Gabbros



# 100% St George

## St George has 100% ownership of all nickel rights at East Laverton Project

- Previous farm-in arrangement with BHP Billiton Nickel West
- All nickel sulphide targets and a \$3m data-set now owned and controlled 100% by St George as from October 2013
- Interest from major mining companies in the Project continues

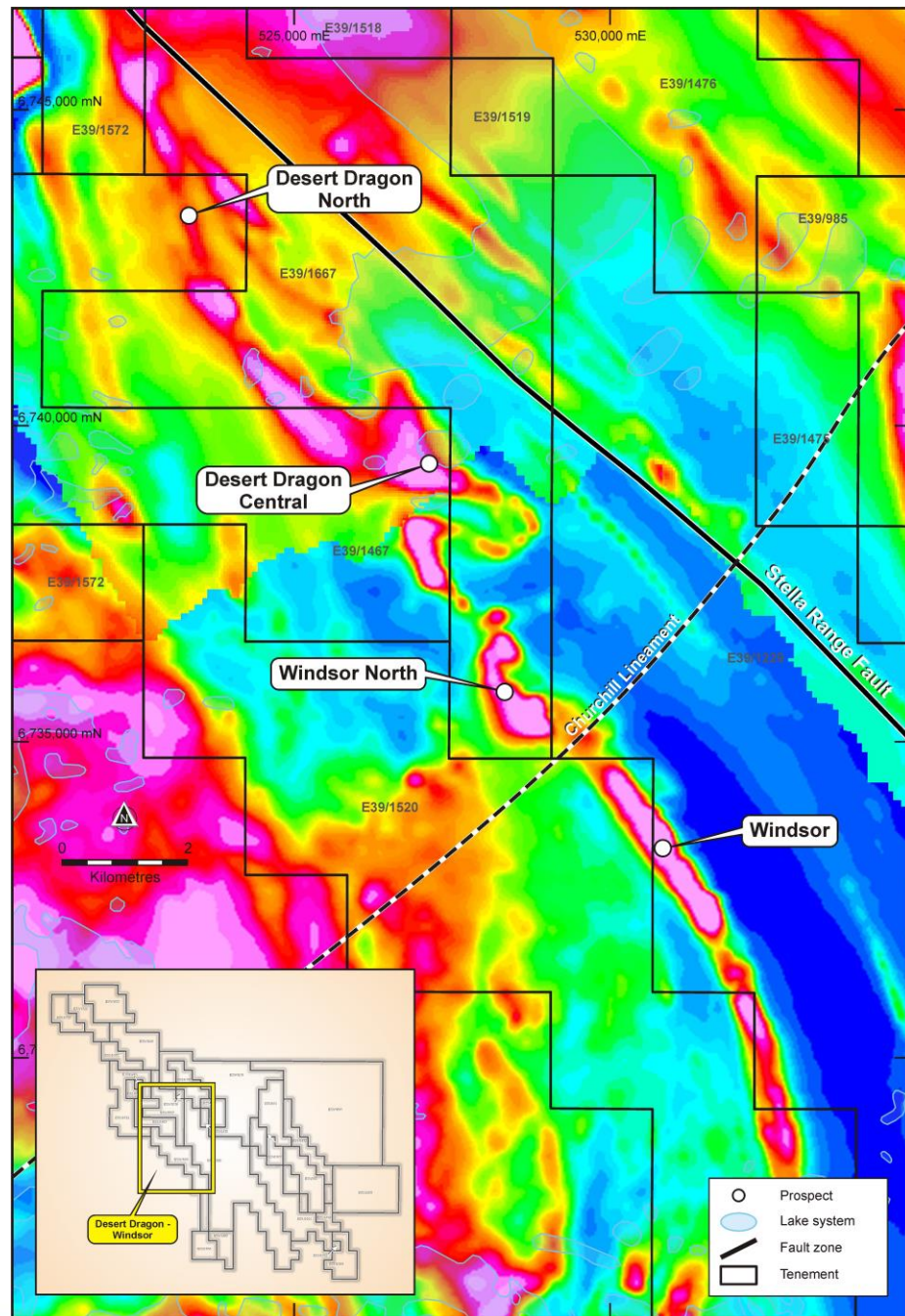


# Nickel at East Laverton

# 2015 Technical Review

## Potential Confirmed

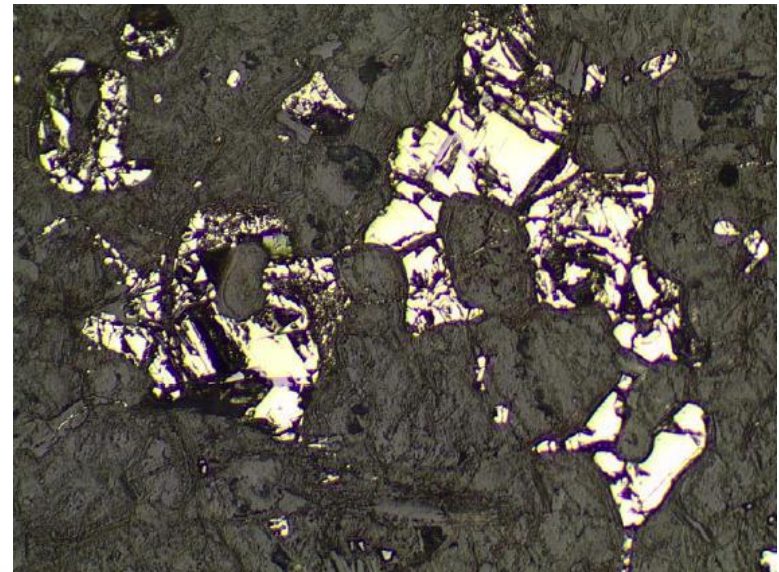
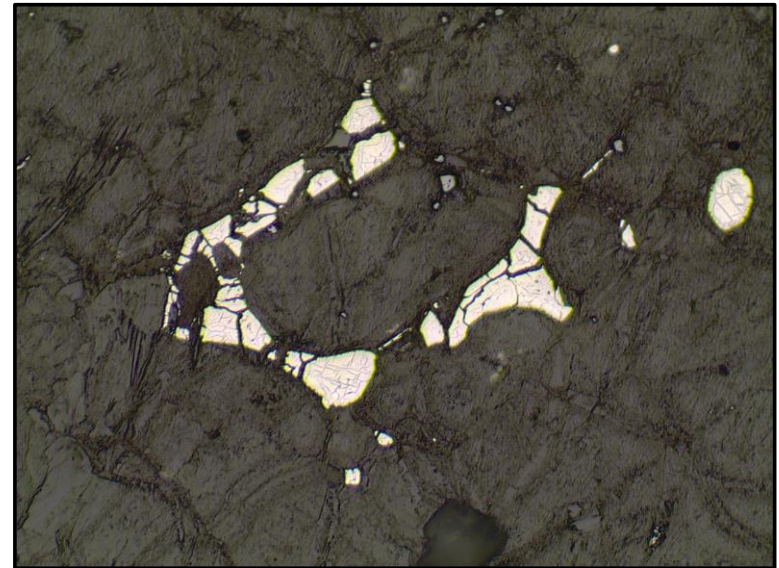
- Presence of geological criteria required to host multiple nickel deposits proven by systematic exploration
- Similar features to other highly mineralised komatiite nickel sulphide belts
- Potential for a new nickel sulphide camp backed by global expert
- Desert Dragon – Windsor prospects (18km on Stella Range belt) are highest priority



# Nickel Sulphides Discovered

## High Tenor Nickel Sulphides

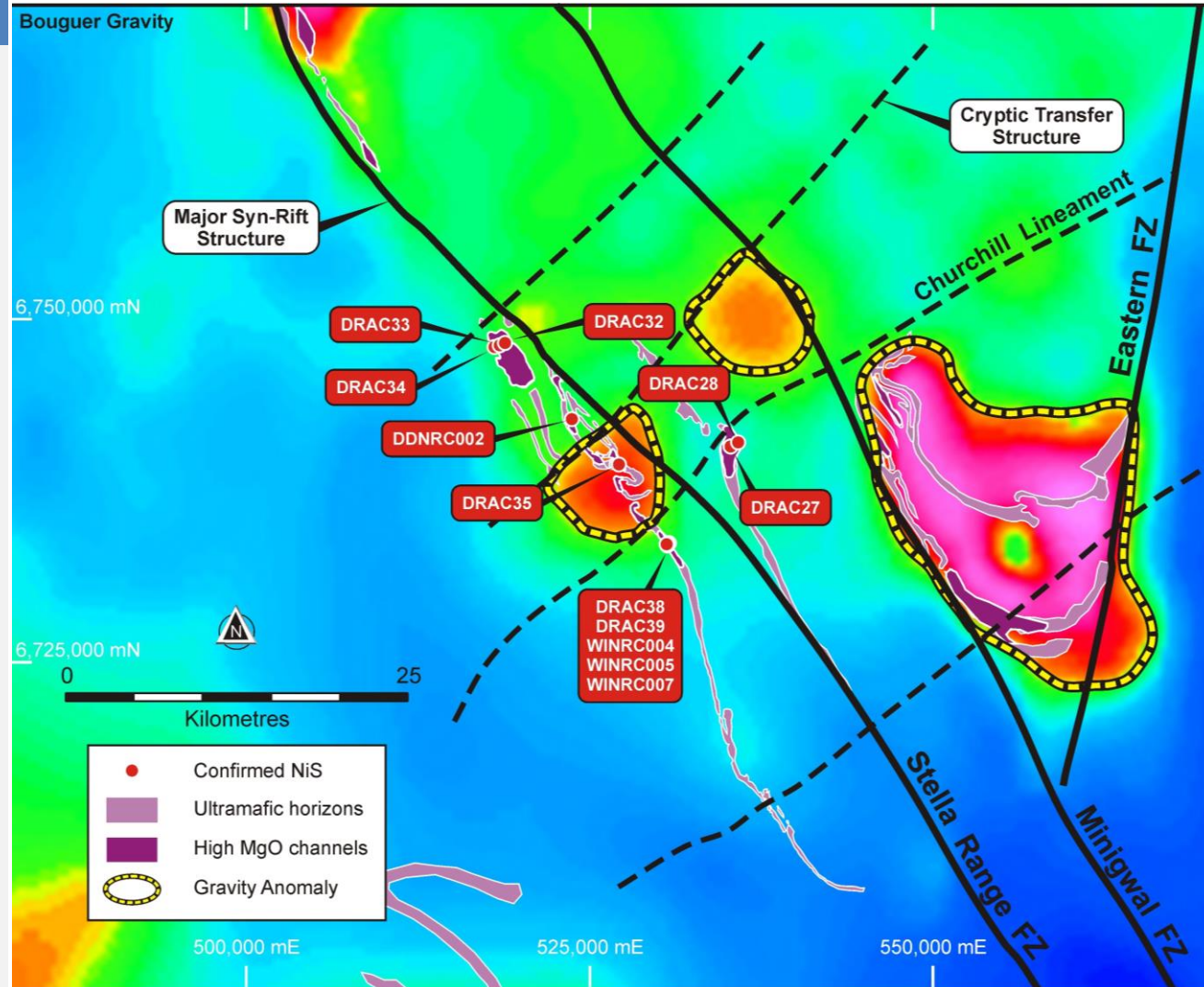
- Nickel sulphides discovered in first ever nickel-focused drilling by BHP in 2012; 35 RC holes at 7 targets for 8,560m of drilling
- Nickel sulphides hosted by high-MgO komatiites, supporting potential for high grade nickel sulphide endowment
- Pentlandite identified; a high tenor nickel sulphide indicating likelihood for high grade nickel concentrate
- Drilling in 2013 and 2014 encountered more occurrences of nickel sulphides



# Favourable Structural Setting

## Major Fault Structures

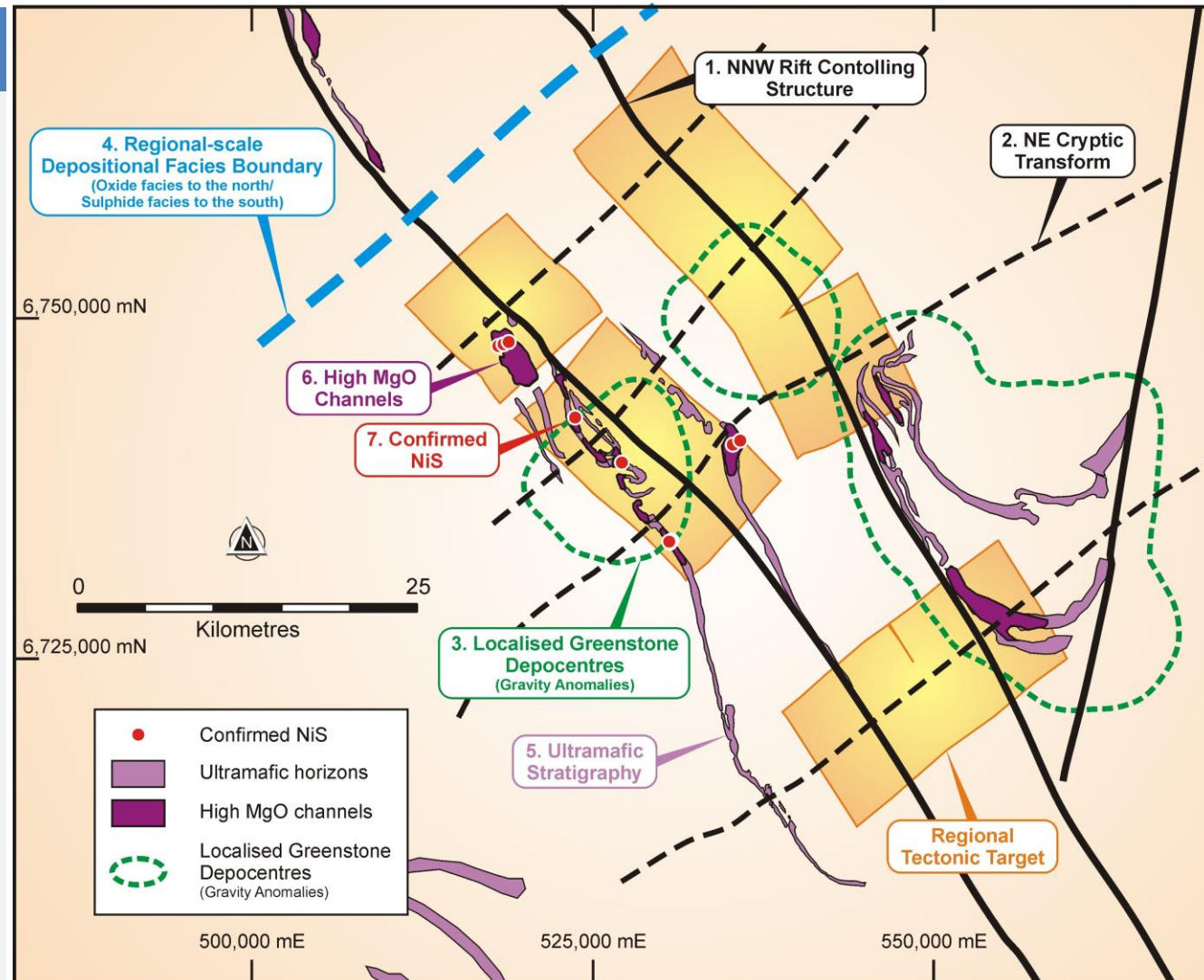
- Large nickel deposits form near the intersections of major fault structures
- Major rift parallel faults cross-cut by deep transform faults at East Laverton
- These are sites of higher magma flow and enhanced conditions for nickel sulphide formation
- Multiple nickel sulphides already discovered at these intersections



# Favourable Geology for Nickel

## Komatiite Ultramafic

- Similar features to major nickel camps like Leinster (+1.5m t Ni), Forrestania (+500kt Ni)
- High MgO ultramafics in contact with sulphur-rich sediments
- Abundant sulphur source essential for nickel sulphide formation
- Multiple komatiite channels identified with nickel sulphides
- 7 key targeting criteria present at the Project



# High Impact Exploration



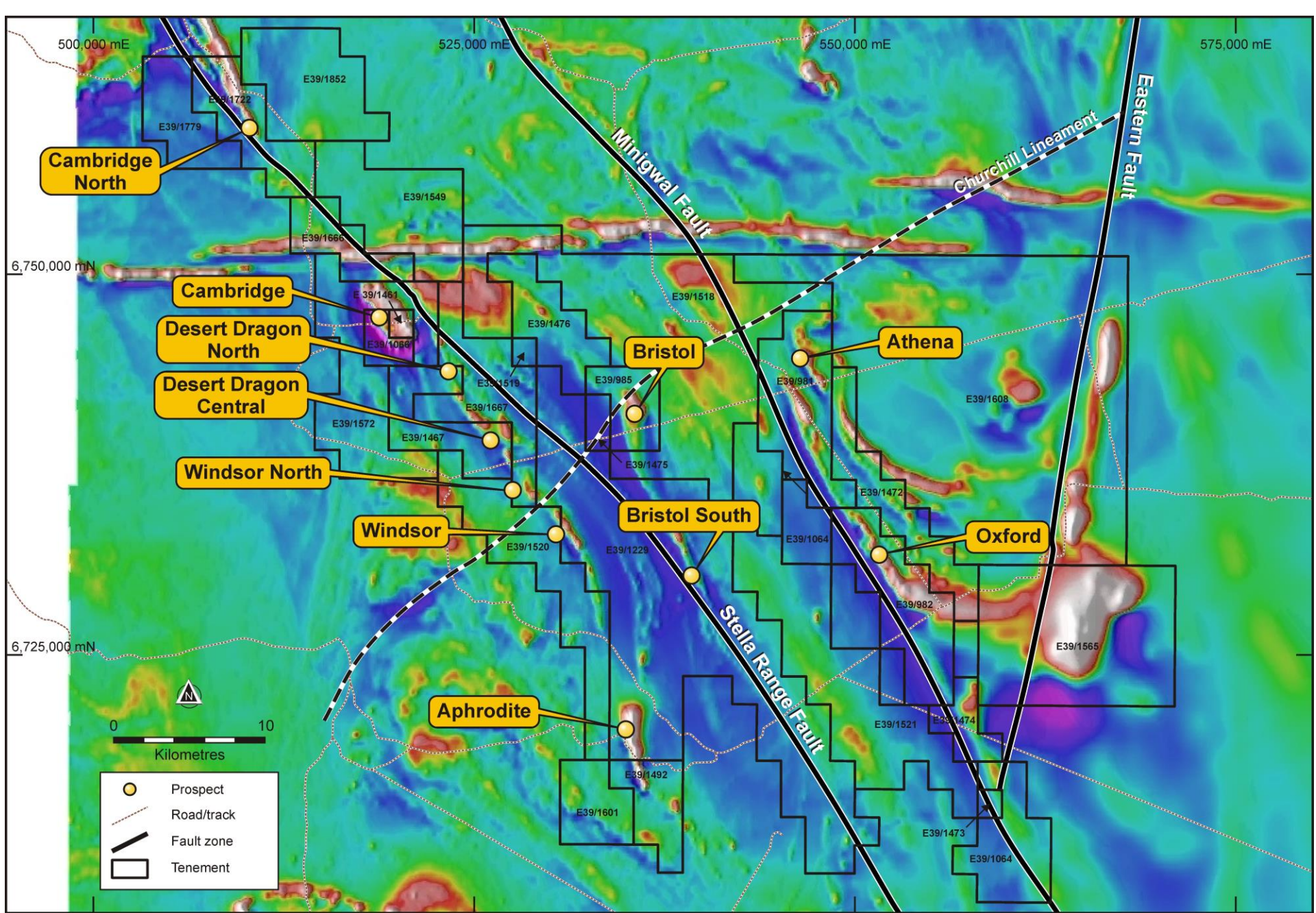
# Nickel Sulphide Targeting

## Comprehensive Ground Electromagnetic (EM) Survey

- Large, regional MLEM survey of +100km strike to date
- Modern, powerful EM technology employed to 'see through' cover
- Multiple strong EM conductors have been identified
- Sophisticated targeting selects EM conductors with best potential to be massive nickel sulphide deposits

## Large Pipeline of Prospects Established

- Desert Dragon – Windsor is the priority target area
- Several other target areas are also highly prospective
- High impact drilling continues to test high quality EM conductors in favourable settings
- Down-hole EM surveys to test for 'blind' nickel deposits



# Phase 1 of 2015 Drilling Campaign

## Phase 1 of the 2015 drilling campaign

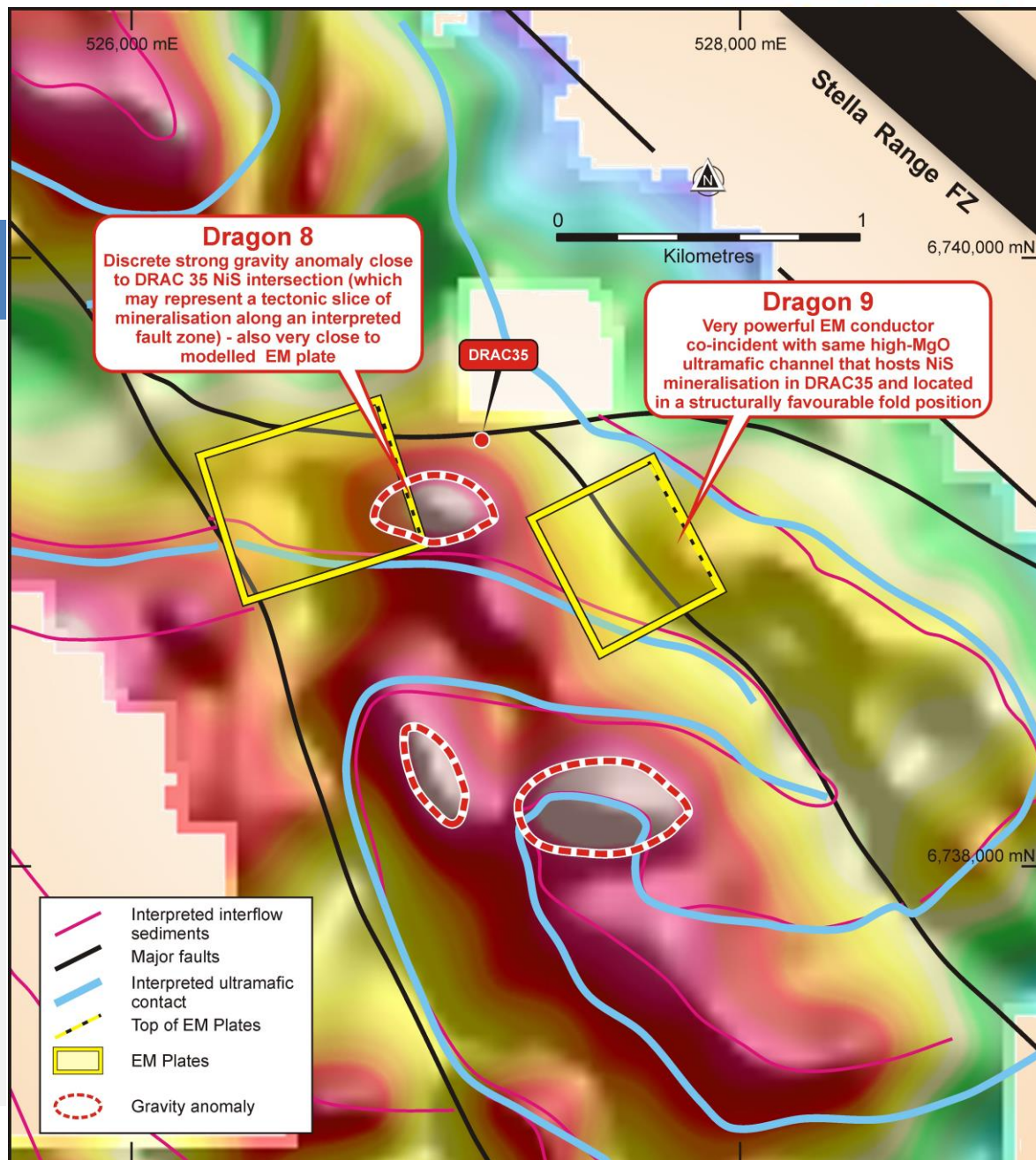
- +2,500m diamond drilling program has just started
- Testing powerful EM conductors
- Drilling and down-hole EM surveys to be used concurrently
- At least 7 drill targets for massive nickel sulphides
- Multiple high quality targets increases discovery potential



# Desert Dragon Central

## Powerful EM Conductors

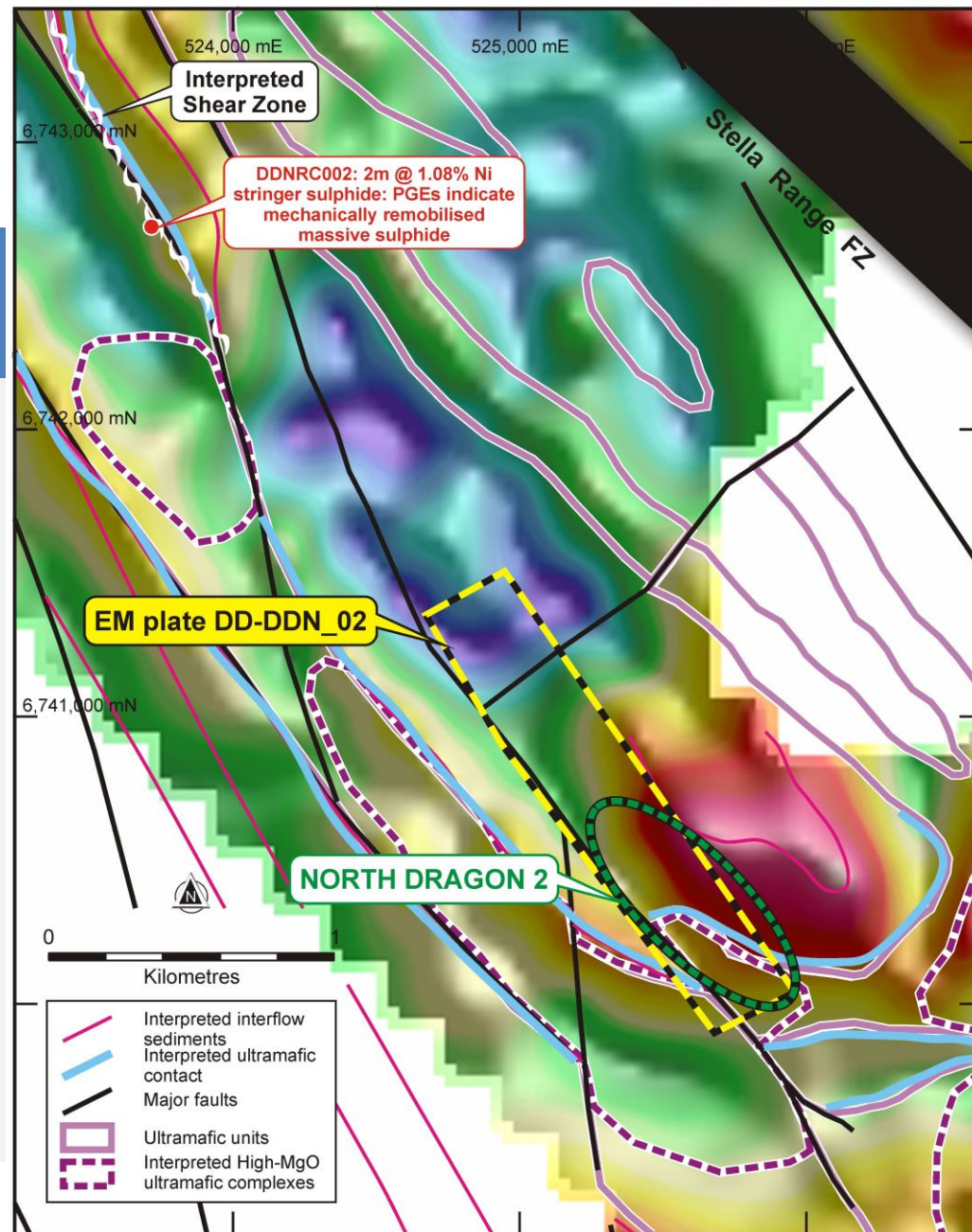
- Dragon 9 has an exceptional EM response – late time decay of 443ms and conductance of 4900S
- Indicates a thick and highly conductive body
- Situated in area of complex folding of Stella Range belt with major cross faults – highly favourable setting for nickel sulphide deposition
- Dragon 8 and 9 co-incident with ultramafic contact



# Desert Dragon North

## Massive Nickel Sulphides in DDNRC002

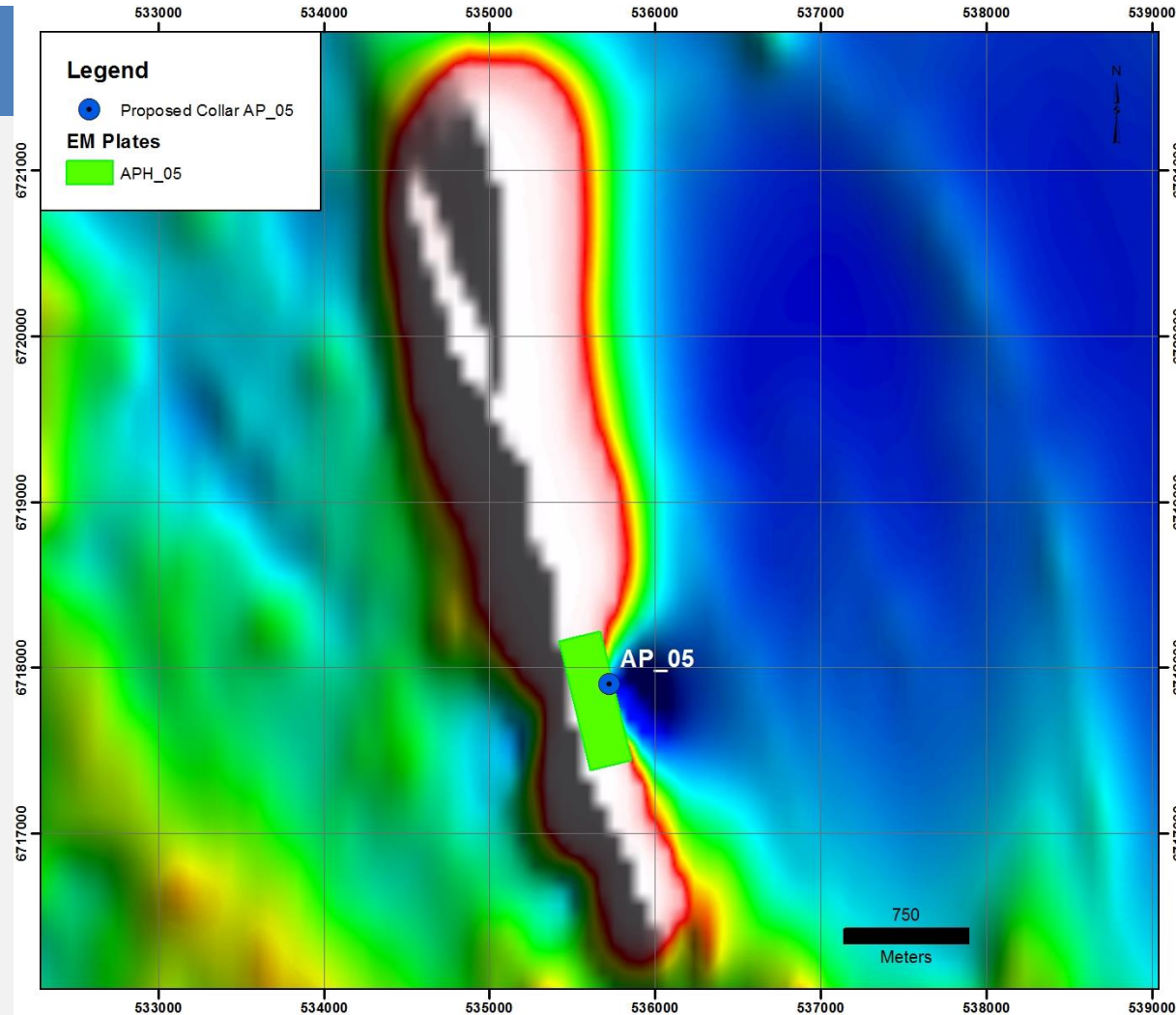
- Massive stringer sulphide veins in DDNRC002 interpreted to have a local source – either remobilised along shear zone or related to basal mineralisation
- Basal contact at DDNRC002 remains untested
- North Dragon 2 – strong EM conductor on the margin of a gravity feature, likely to be a sulphide accumulation that may include nickel sulphides



# Aphrodite

## Optimal Structural Setting

- Aphrodite 4 (EM plate APH\_05) is a strong EM conductor
- Very strong EM response (2947 S) with very late time decay (176ms) indicates a highly conductive body consistent with massive nickel sulphides
- Situated in an indentation of the ultramafic contact, a favourable position for massive nickel sulphides



# More Targets

## Pipeline of Drill Targets

- **Cambridge** – deep diamond hole to test high-MgO ultramafic zone at depth
- **Desert Dragon Central** – drill test a very strong gravity anomaly in the southern limb of the fold closure; likely to be dense sulphide-rich rocks
- **DHEM target at DDD002** – drill test strong off-hole DHEM anomaly from DDD002, on strike from mineralisation intersected in DRAC35
- **More targets being planned at multiple prospects**



# Leverage to Exploration Success



# Rising Valuation

## Unique regional exploration play

- Emerging nickel camp
- Dominant landholding
- Big company interest

## Systematic exploration using modern techniques

- Strong technical team
- Creating value through exploration upside
- Pipeline of prospects

## Share price re-rating

- Low market cap
- Tight share register
- Highly leveraged to a discovery

# Nickel Discovery: History of Booms

## Nickel explorers can create remarkable shareholder wealth

Western Areas (ASX: WSA) – market cap at IPO of \$7.4m, now \$1 billion

Jubilee Mines – market cap of \$20m at discovery, taken over for \$3.1 billion

Sirius Resources (ASX: SIR) – market cap of \$8m at discovery, now \$1.2 billion



Sirius (ASX: SIR) price chart from 1 July 2011

- 15c at 1 July 2011 and 5c pre-discovery in July 2012
- Gains of up to 10,000 %

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- may include, among other things, statements regarding targets, estimates and assumptions in respect of mineral reserves and mineral resources and anticipated grades and recovery rates, production and prices, recovery costs and results, capital expenditures, and are or may be based on assumptions and estimates related to future technical, economic, market, political, social and other conditions;
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The information in this report that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr Tim Hronsky, a Competent Person who is a Member of The Australasian Institute of Mining and Metallurgy. Mr Tim Hronsky is employed by Essential Risk Solutions Ltd which has been retained by St George Mining Limited to provide technical advice on mineral projects.

This ASX announcement contains information extracted from the following reports which are available on the Company’s website at [www.stgm.com.au](http://www.stgm.com.au):

- 12 May 2015 *St George Prepares to Drill*
- 20 April 2015 *High Quality EM Conductor at Aphrodite*
- 23 March 2015 *Outstanding Nickel Sulphides Targets*
- 17 March 2015 *Nickel Sulphide Targets at Desert Dragon North*

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