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Thursday 1<sup>st</sup> May 2008

The Companies Announcement Office  
Level 10 Exchange Centre  
20 Bond Street  
SYDNEY NSW 2000

**PRESENTATION AT SOUTH AUSTRALIAN RESOURCES & ENERGY INVESTMENT CONFERENCE**

**ADELAIDE, SOUTH AUSTRALIA**

The following presentation was made at the South Australian Resources & Energy Investment Conference at 12:30pm (Adelaide time) today.

Yours sincerely

A handwritten signature in black ink, reading 'R. A. Holland - Kennedy'.

Rebecca Holland-Kennedy  
Company Secretary/Director  
PepinNini Minerals Limited

# Pepinini Minerals Limited

## Exploring and Developing the Mineral Potential of South Australia

Australia's  
**Paydirt**

**SOUTH  
AUSTRALIAN**  
RESOURCES & ENERGY INVESTMENT  
CONFERENCE

**April 2008**

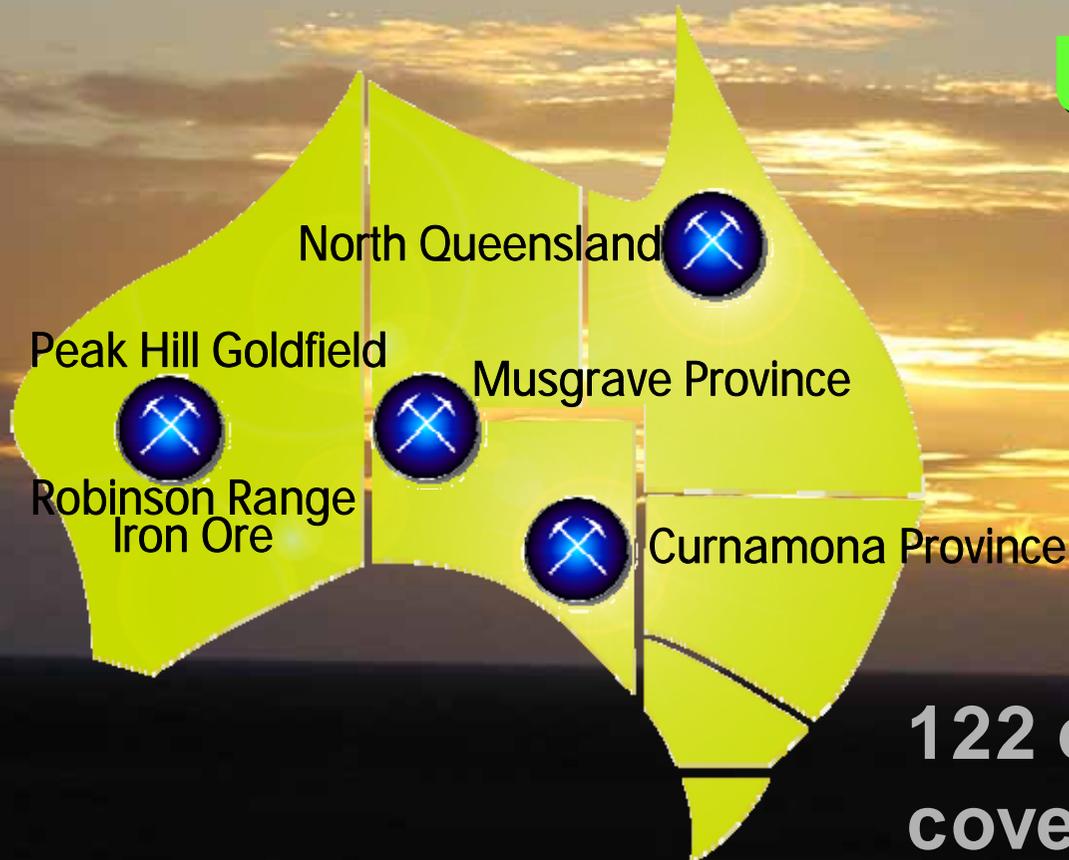


# Peppinini Minerals Limited

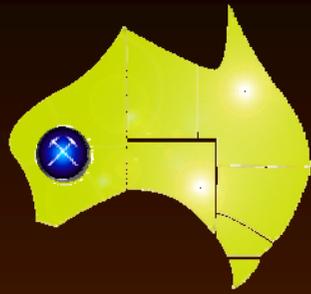
Uranium, Nickel

Base Metals

Gold, Iron Ore



122 exploration tenements  
covering 16,500 sq.kms.



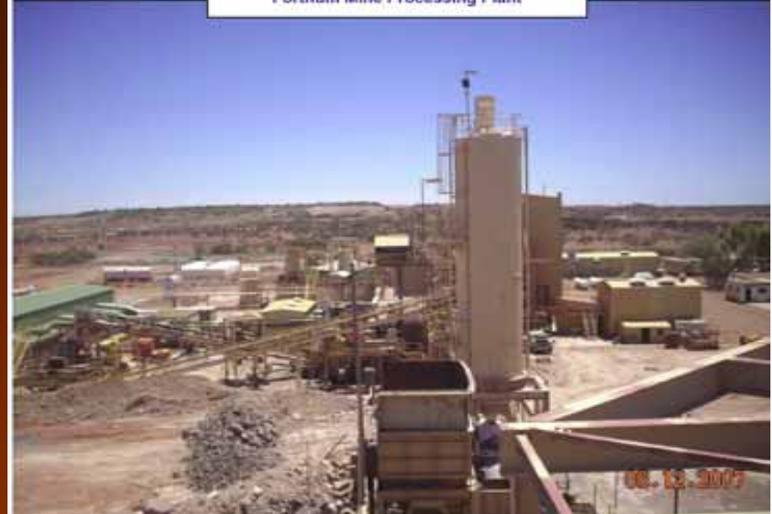
**Pepinini**  
Minerals limited

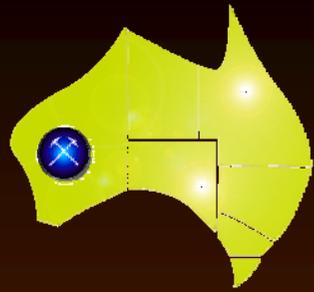
## **Peak Hill Goldfield WA**

- **51% of Fortnum Gold Mine and tenements covering 2,500sq kms**
- **1.2Mtpa processing plant**
- **1 million oz gold resource**



Fortnum Mine Processing Plant

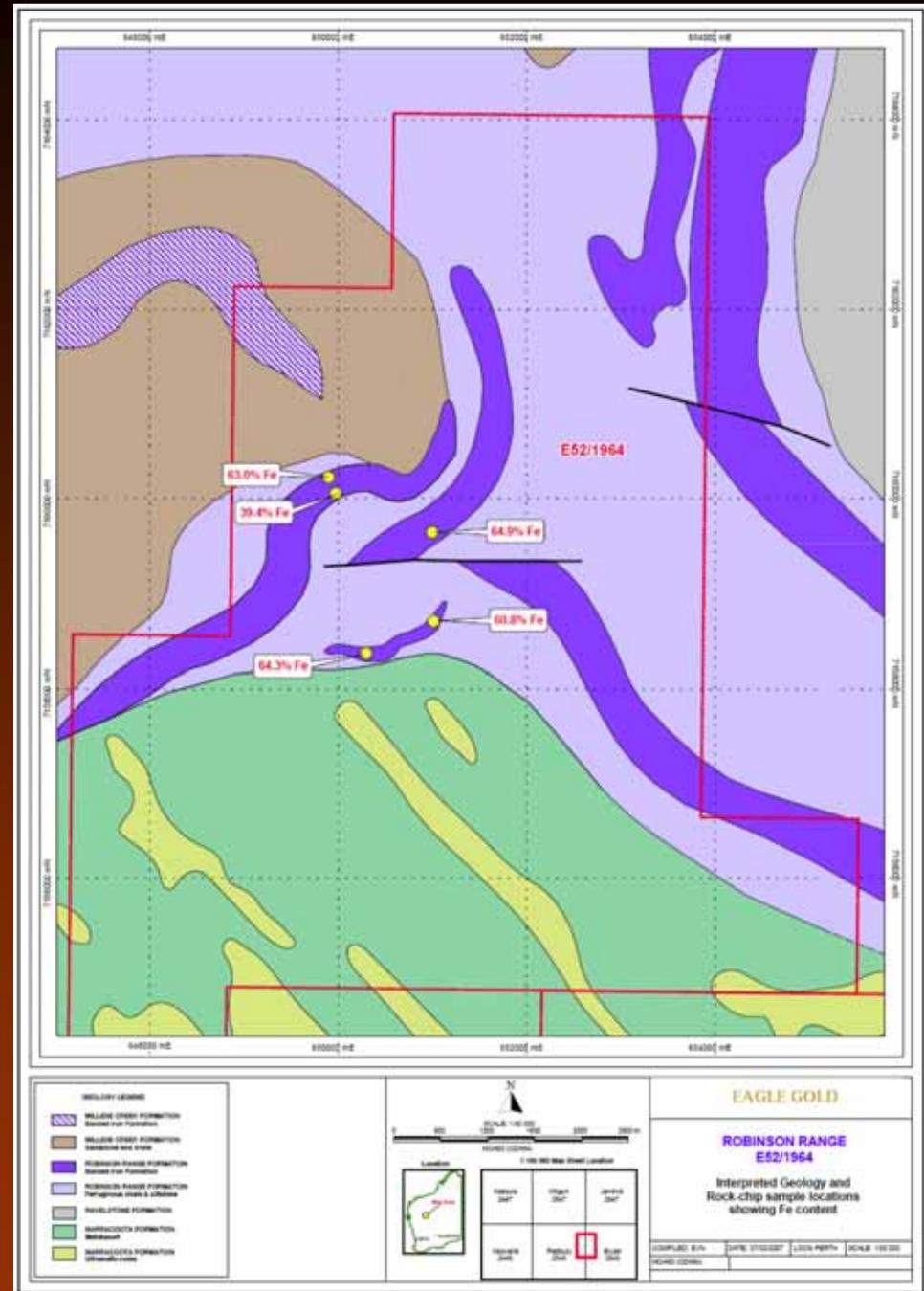


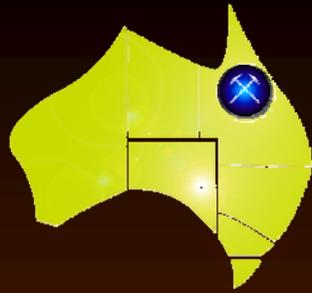


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## Robinson Range Iron Ore Project WA

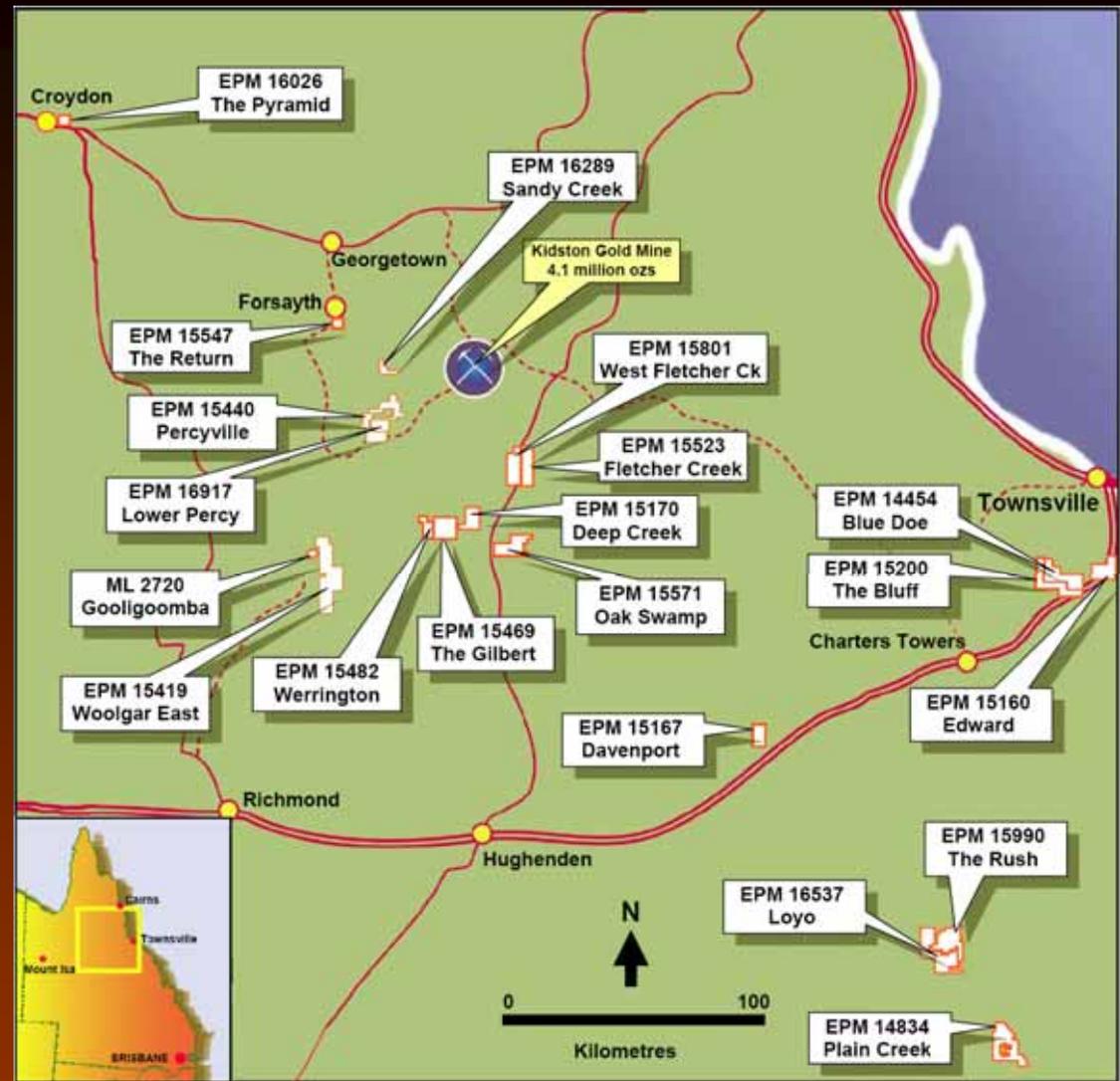
- Farm-in agreement to earn 50% of iron ore rights by spending \$500,000 over 2 years on exploration
- 7 tenements covering Fe prospective ground in Midwest Province
- DSO grades, >60%Fe, low phosphorous
- At least 7 outcropping deposits known



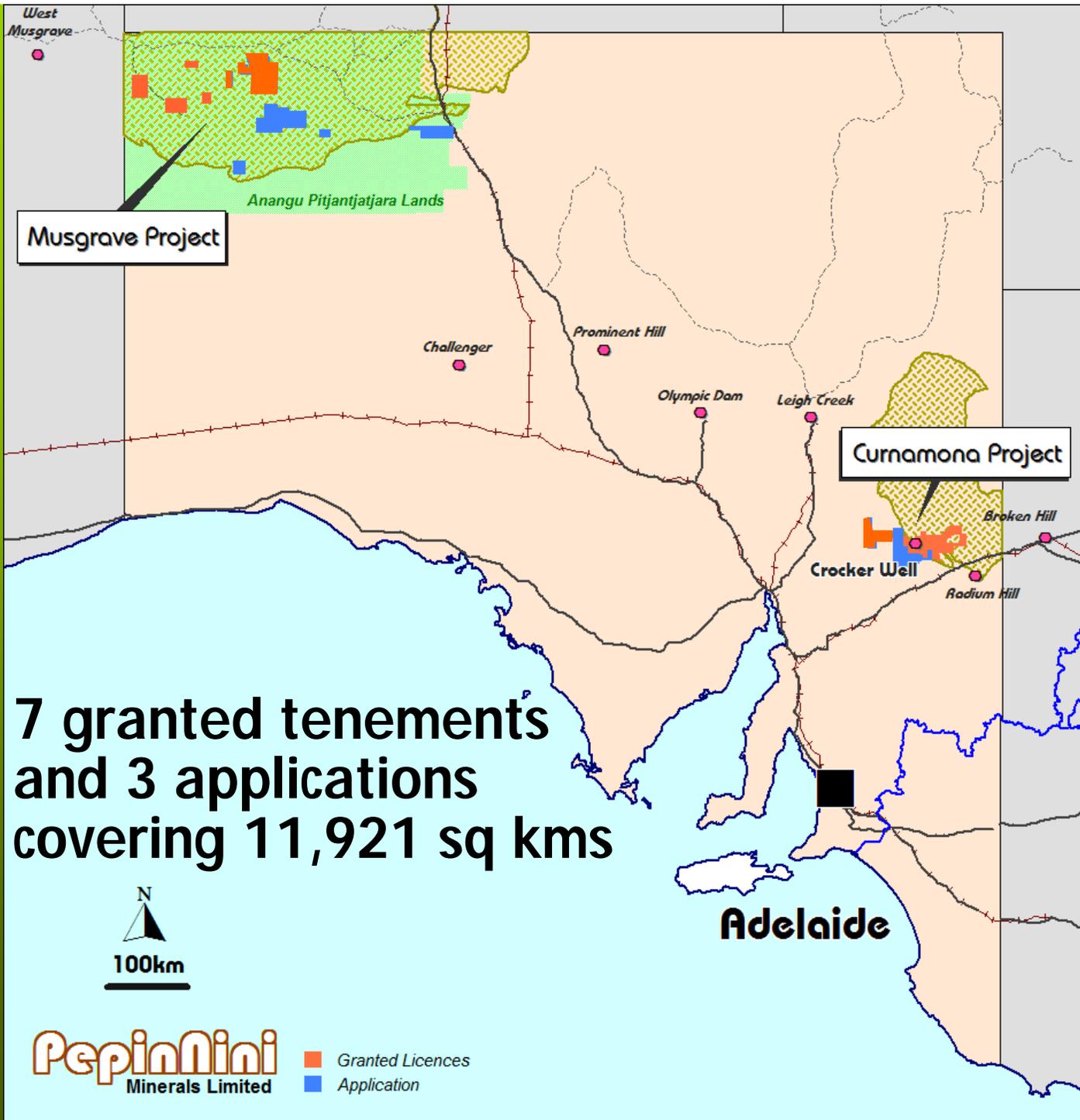


## North Queensland Project Georgetown Inlier and Woolgar Goldfield

- 100% interest in 19 EPMs and 1 ML covering 2,007 sq kms
- Gold, base metals, uranium and phosphate potential
- Encouraging results from initial reconnaissance survey including 65.1g/t Au, 957g/t Ag, 20.3% Cu and 64.7% Pb



Regional Location Plan



# Curnamona Province Project

## *Advanced Uranium Project*

- 19.8 million lbs of  $U_3O_8$  at Crocker Well with the potential to be in production within 3 years
- Strategic alliance with Sinosteel Corporation to jointly develop the Uranium Project
- 26 additional known uranium prospects

## *Other Projects*

- More than 30 Base Metal (Copper/Lead/Zinc) and Gold targets ready to drill



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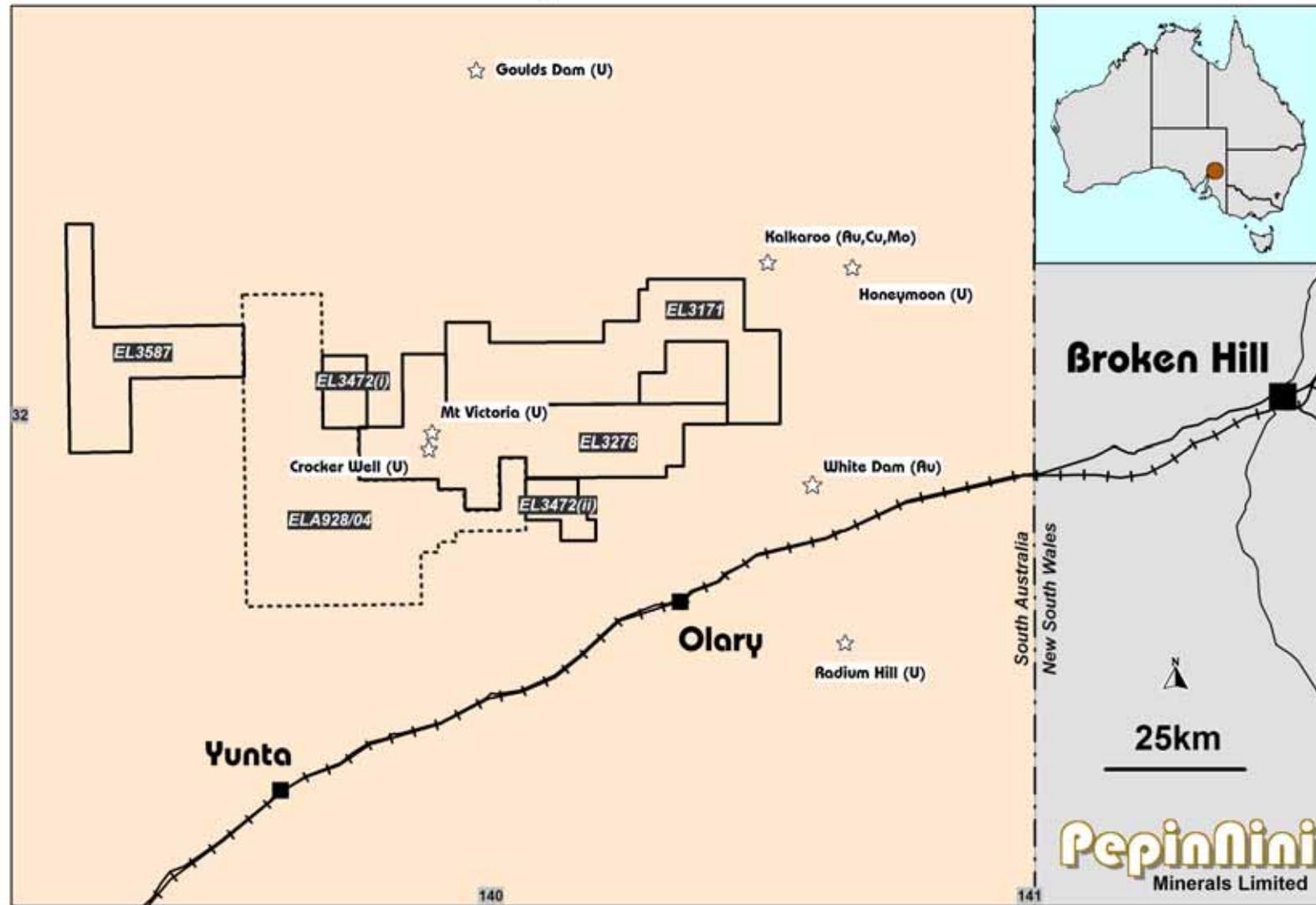


# Peppinini Minerals Limited

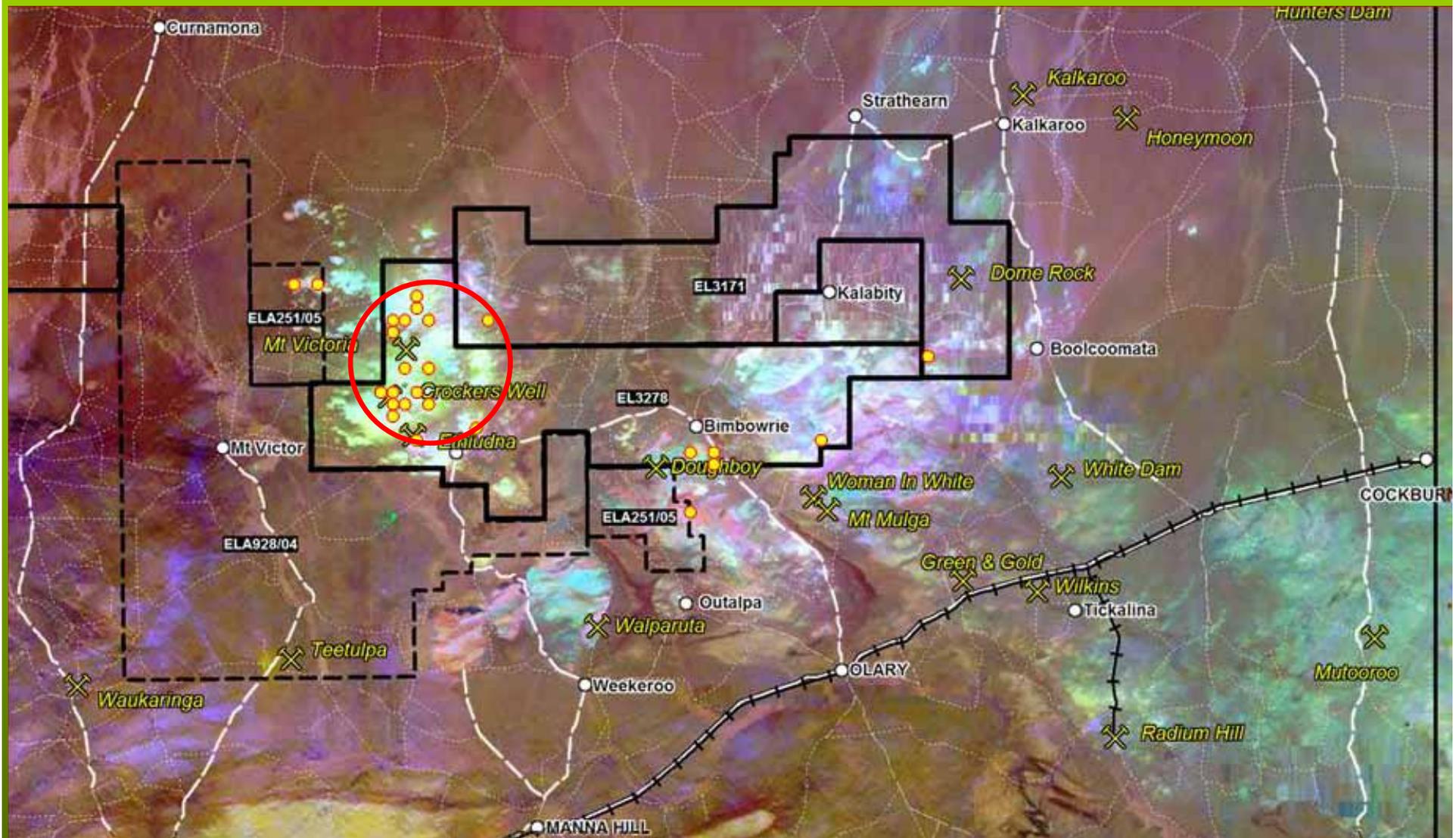


A\$11 million budget over 2 years to explore and develop uranium prospects and investigate the non uranium potential of the tenements

## Curnamona Project - Tenement Location Plan



An Advanced Uranium Project covering 3,778sq kms under 4 granted exploration licences and 1 exploration licence application

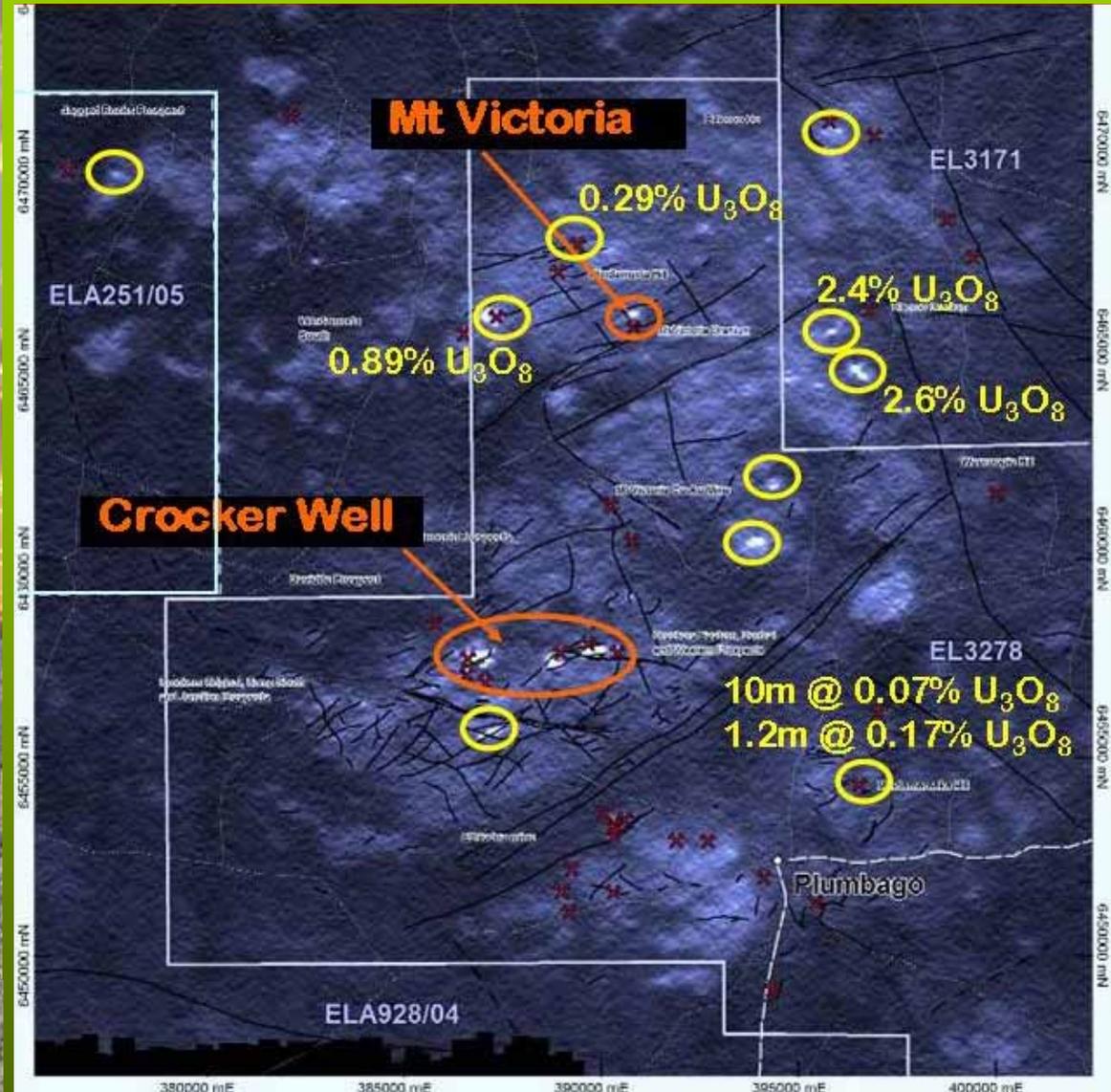


26 additional known primary uranium prospects other than Crocker Well and Mt Victoria. Potential for secondary palaeochannel style deposits as well as unconformity related uranium mineralisation

# Crocker Well Project

## Curnamona Province

### South Australia



Ten Prospects identified in the vicinity of Crocker Well and Mt Victoria. High grade surface samples ( $> 2\% U_3O_8$ ) from newly discovered Becaroo and Anomaly A Prospects



**Drilling at Crocker Well – June, 2007**

Uranium mineralisation from  
10m to 99.2m with an average  
grade of 0.05% (eU<sub>3</sub>O<sub>8</sub>)



Drilling at Crocker Well – June, 2007



**Drilling at Crocker Well – March, 2008**



**Field camp at Crocker Well – March, 2008**



# Crocker Well

*Bankable Feasibility Study*

Resource Validation



Metallurgical testing

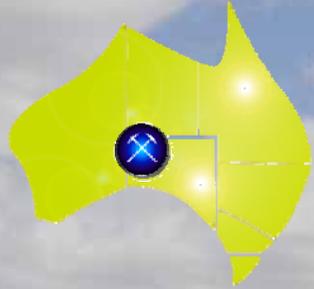


Regulatory Approvals and EIS



BFS and EPCM



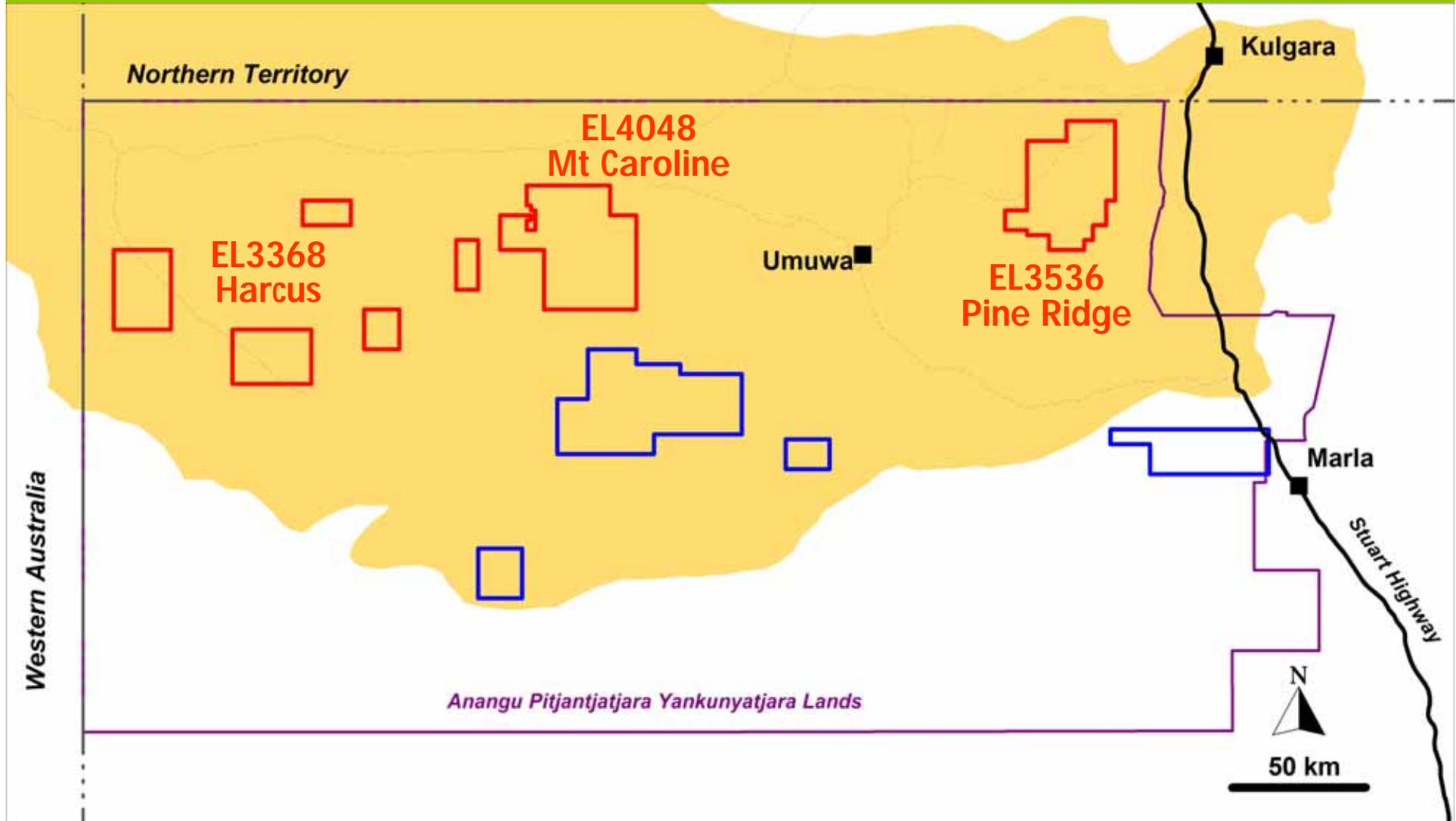


# Musgrave Province Project (Nickel)



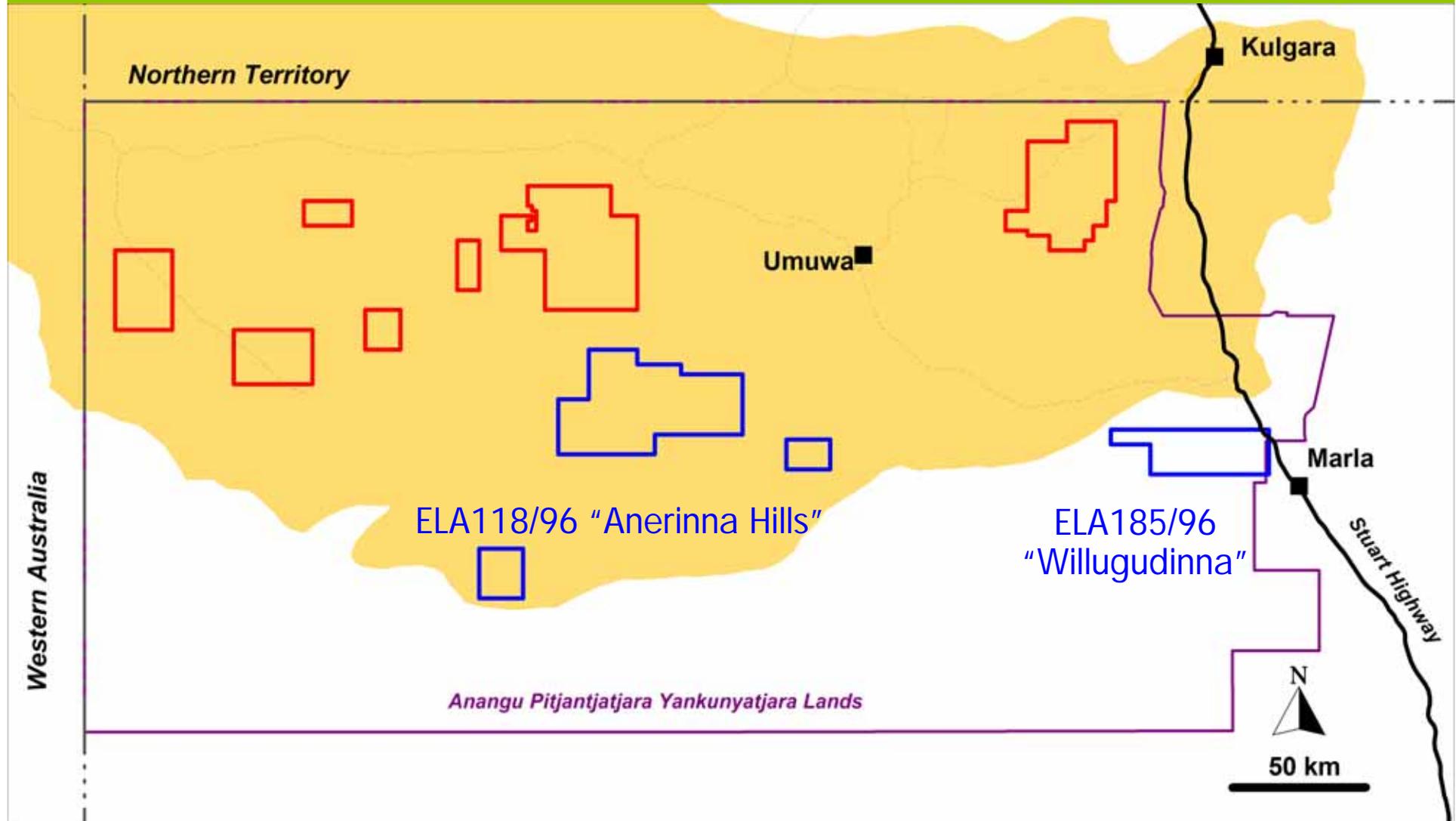
Pepinini

# Musgrave Tenement Status (March 08)



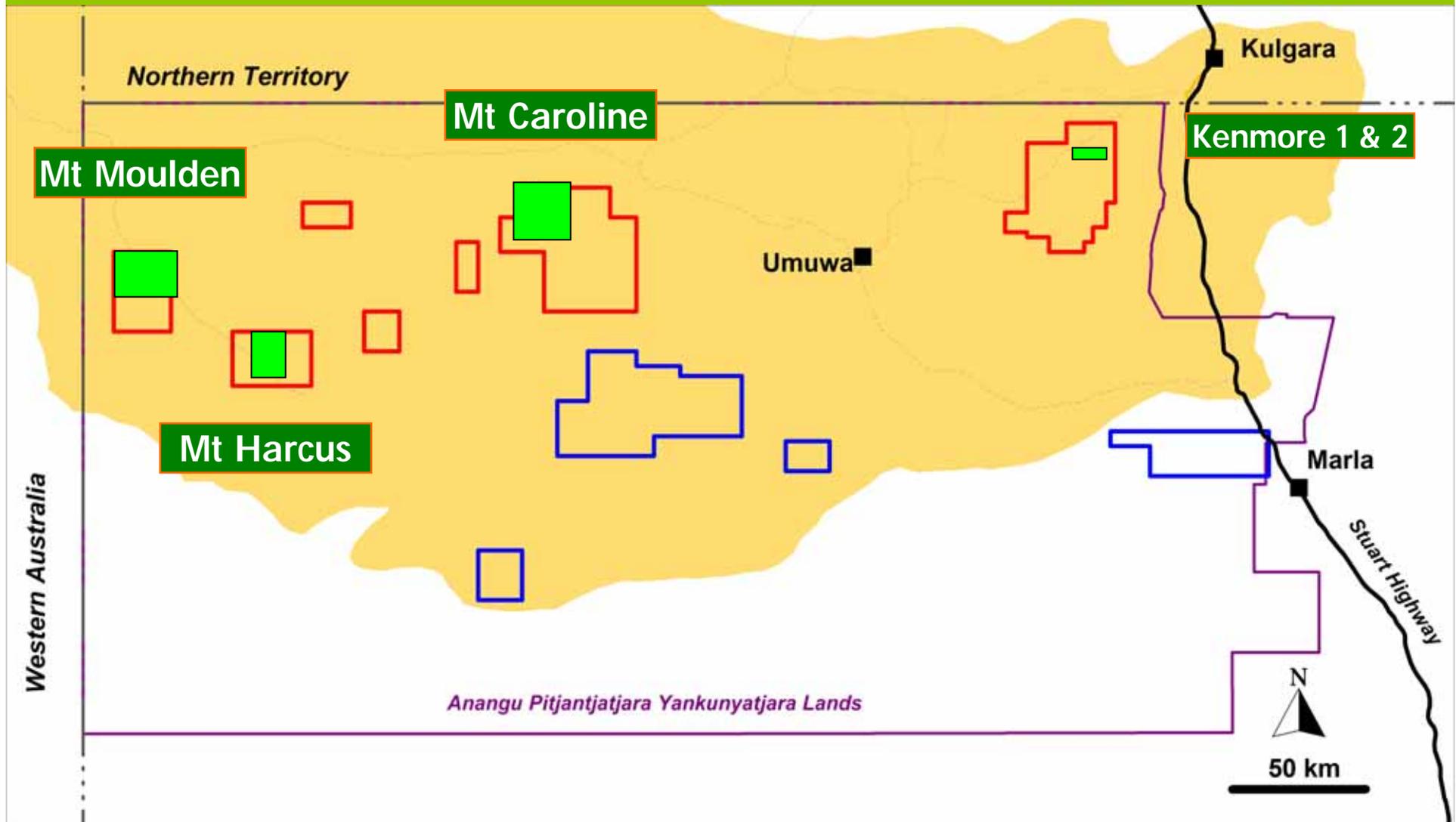
**3 Granted Exploration Licences (7 blocks = 4,905km<sup>2</sup>)**

# Musgrave Tenement Status (March 08)



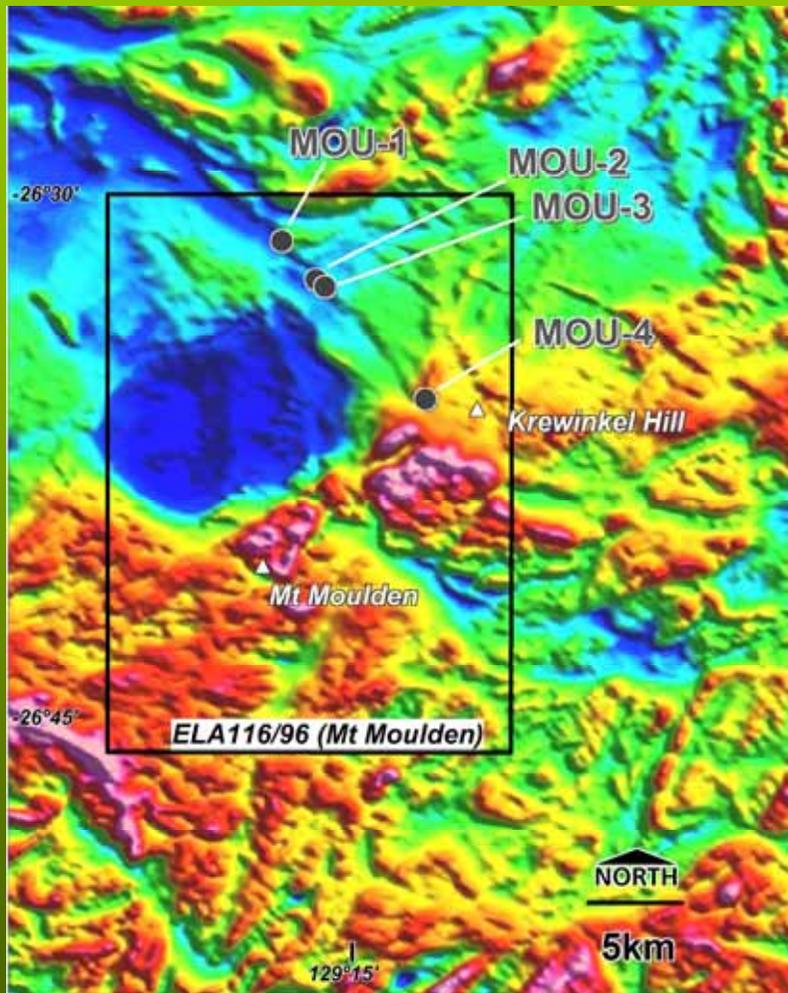
**2 Exploration Licence Applications (4 blocks = 3,238 km<sup>2</sup>)**

# Nickel Sulphide Target Locations



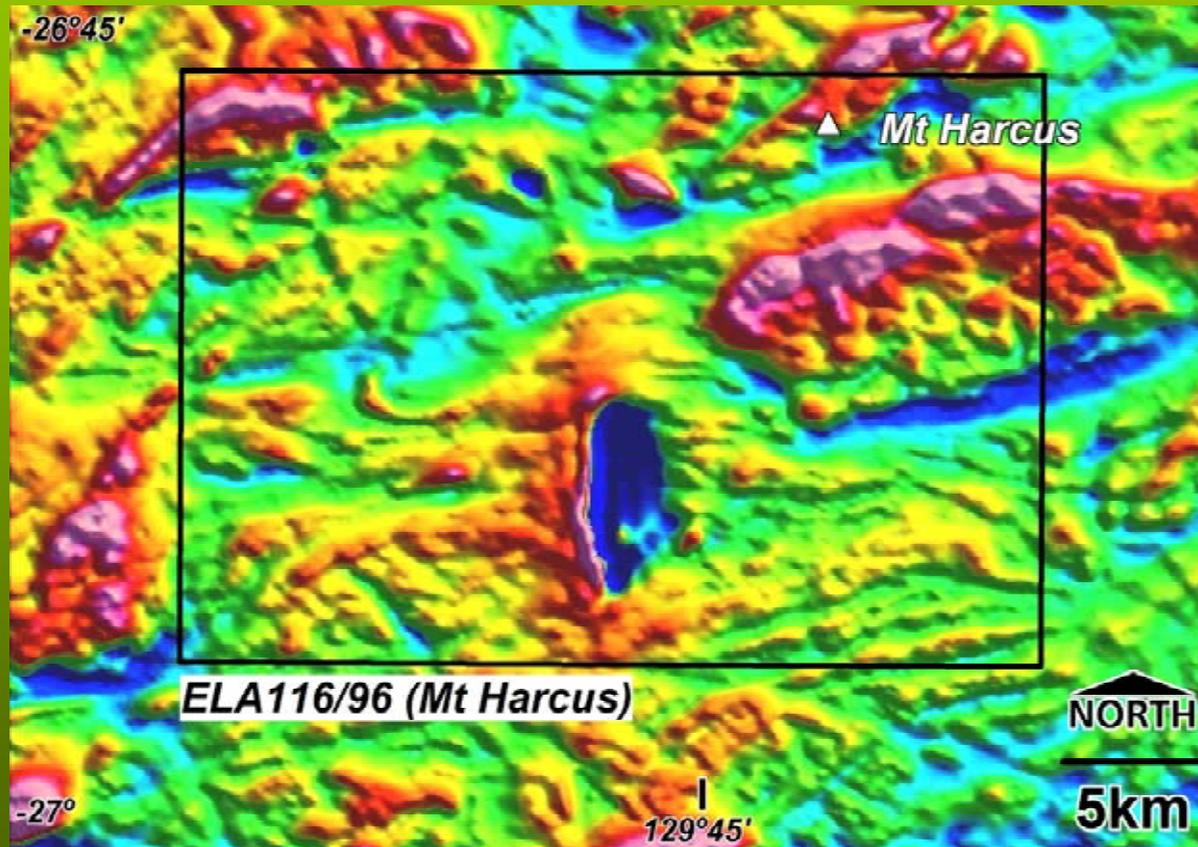
**Highest priority Ni-Cu sulphide targets.**

# Mt Moulden Nickel Target



- Nickel copper sulphide & platinum group metal target
- Similar geological setting to Voisey's Bay
- 10kms diameter magnetic low interpreted as layered ultramafic intrusion
- Prospective Giles Complex rocks intersected in PIRSA boreholes. (sulphides in core, elevated Ni, Cu, Au, Pt in chip samples)

# Mt Marcus Nickel Target

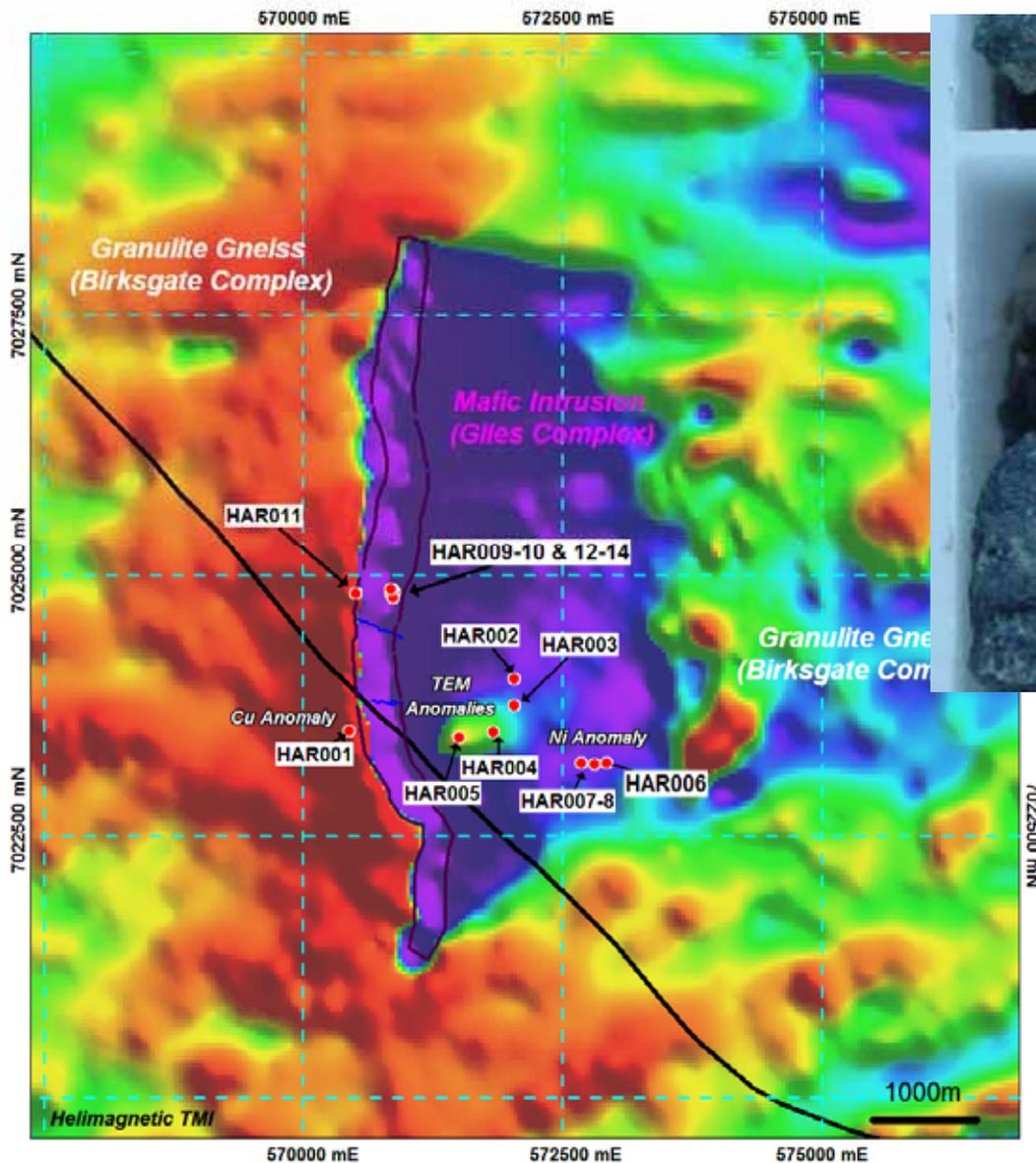


- Nickel copper sulphide platinum group metal target
- Similar geological setting to Voisey's Bay
- Magnetic anomaly modelled as 300m wide vertical mafic/ultramafic dyke extending 7 kms

**Very encouraging  
results from 2006  
drilling program**



## Mt Harcus - Completed Drilling (April 2006)



**Massive Sulphides  
Ni/Cu/Co Potential**

**2m @ 0.34% Cu, 780ppm Ni &  
296ppm Co  
Ni up to 0.13%**

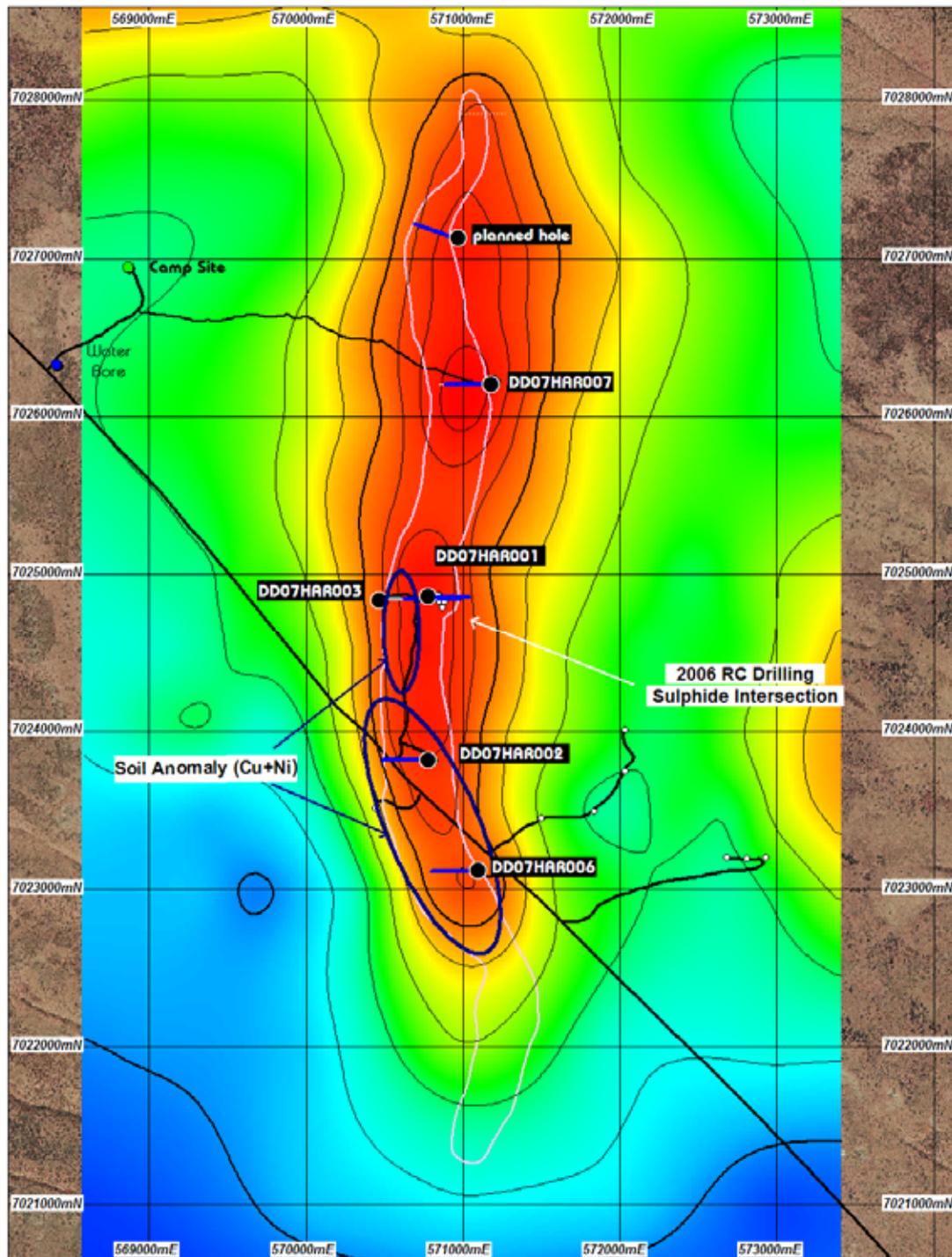






# Harcus Prospect

- Soil auger sampling
- Ground mag surveying
- Gravity surveying
- 2007 drilling
  - 5 holes (~2165m)
  - Incl. 2 *PACE* holes
- Sulphides intersected
  - Pyrrhotite Dominant (Fe)
  - Minor Chalcopyrite (Cu)
  - Trace Pentlandite (Ni)
  - Max results (2007)
    - 0.2% Cu, 254ppm Ni



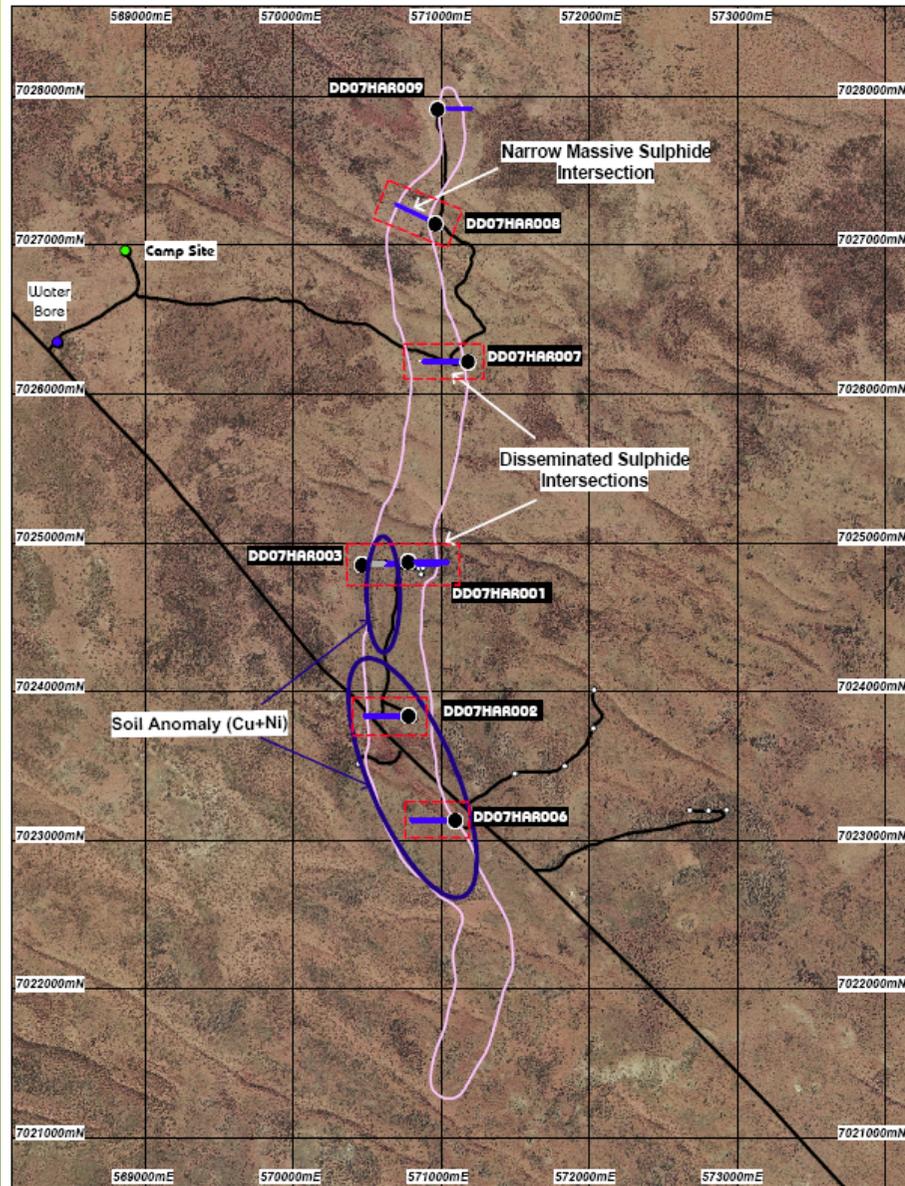
- Core Drill Hole (2007) (completed or in progress)
- Reverse Circulation Drill Hole (2006)
-  Gravity Survey (1 mGal Contour Intervals)



52m of elevated Ni & Cu  
from 41m

Up to 0.2%Cu, 254ppmNi

### EL3368 (Harcus): Drilling Program Status (March 2008)



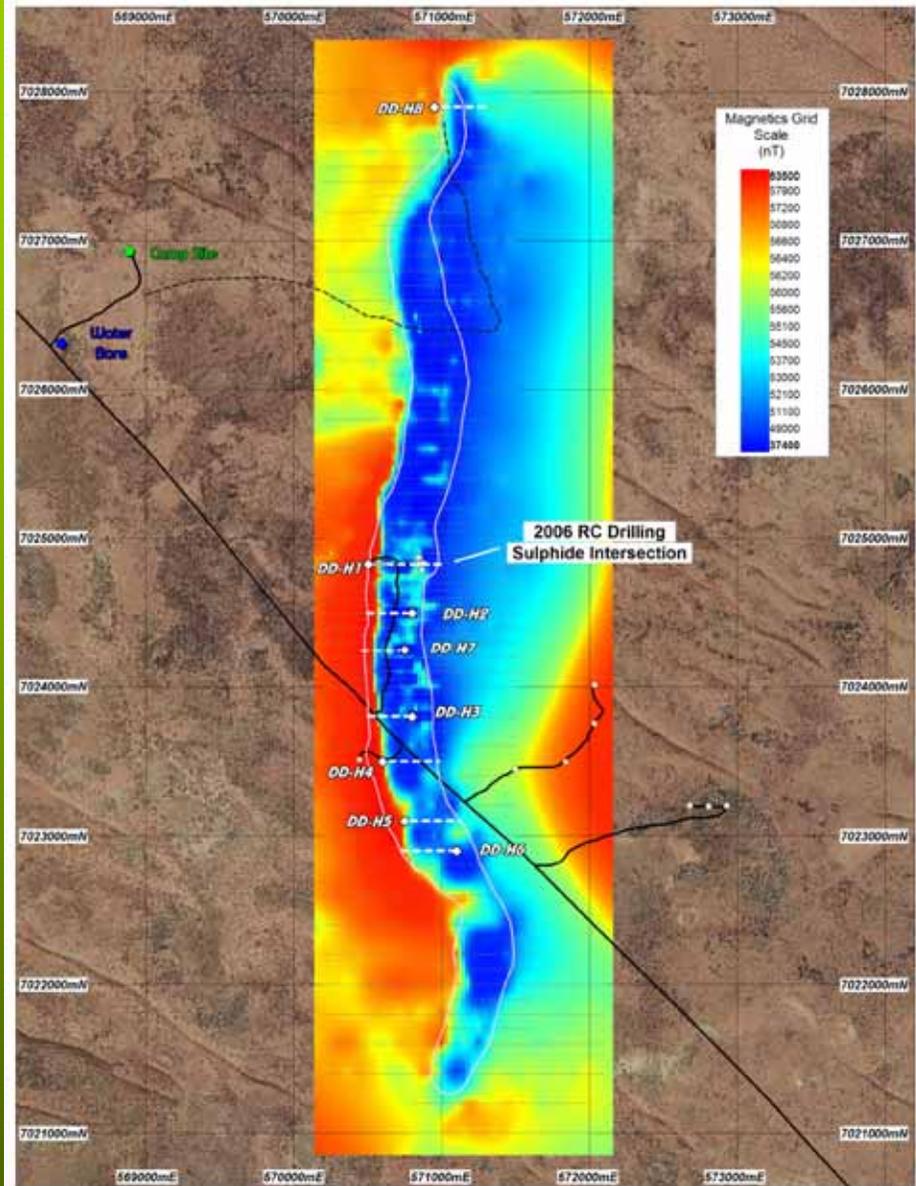
- Core Drill Hole (2007-08)
- Reverse Circulation Drill Hole (2006)
- Soil Auger Sample

Downhole  
Electro -  
Magnetic  
Survey  
[DHEM]

500m  
(1:30,000)

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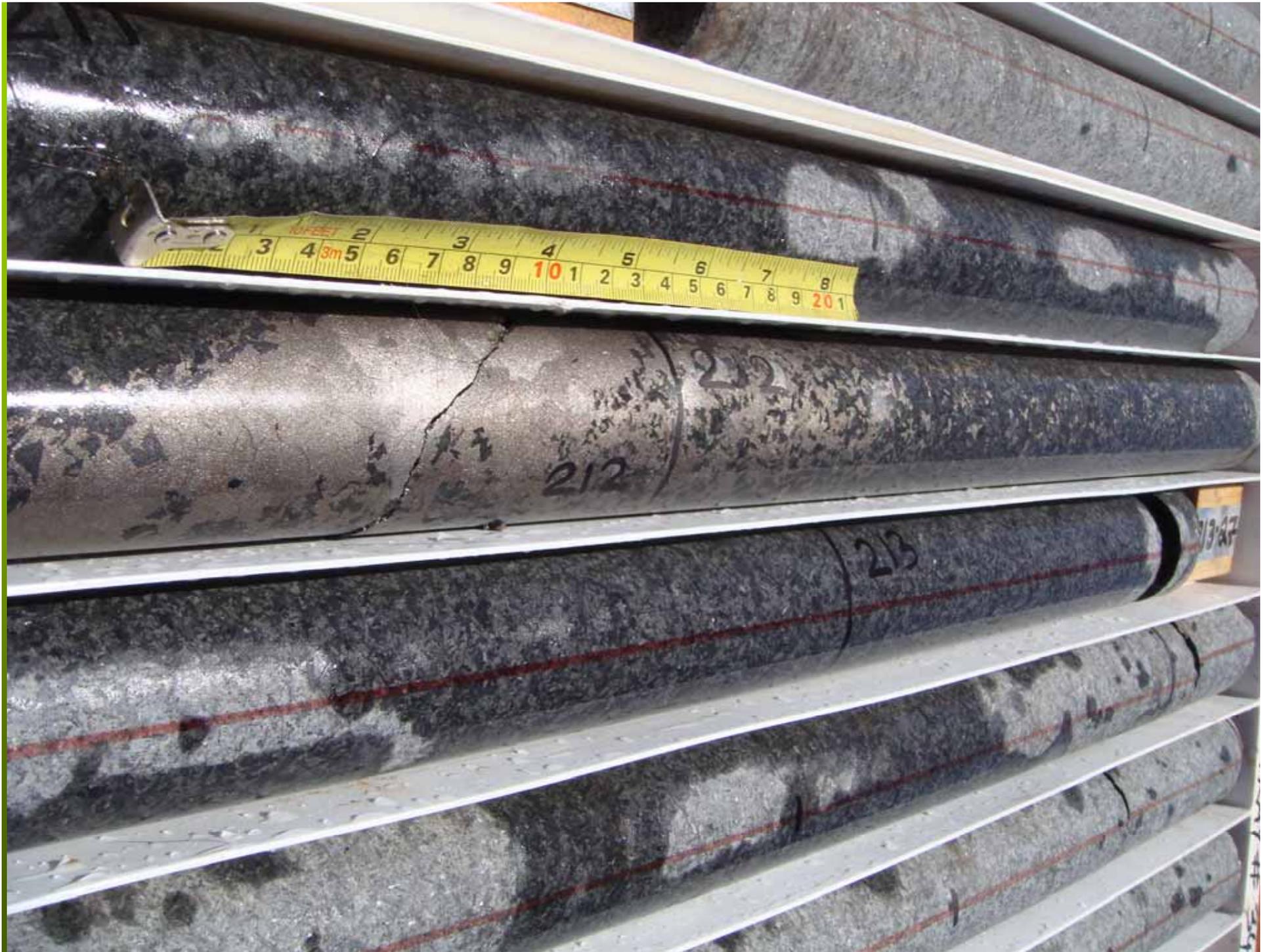
### Mt Harcus EL3368: Planned Diamond Drillholes (2007)



- Planned Diamond Drill Hole (2007)
- 2006 Reverse Circulation Drill Hole
- Ground Magnetic Profiles

500m  
(1:30,000)

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**DD07HAR008**

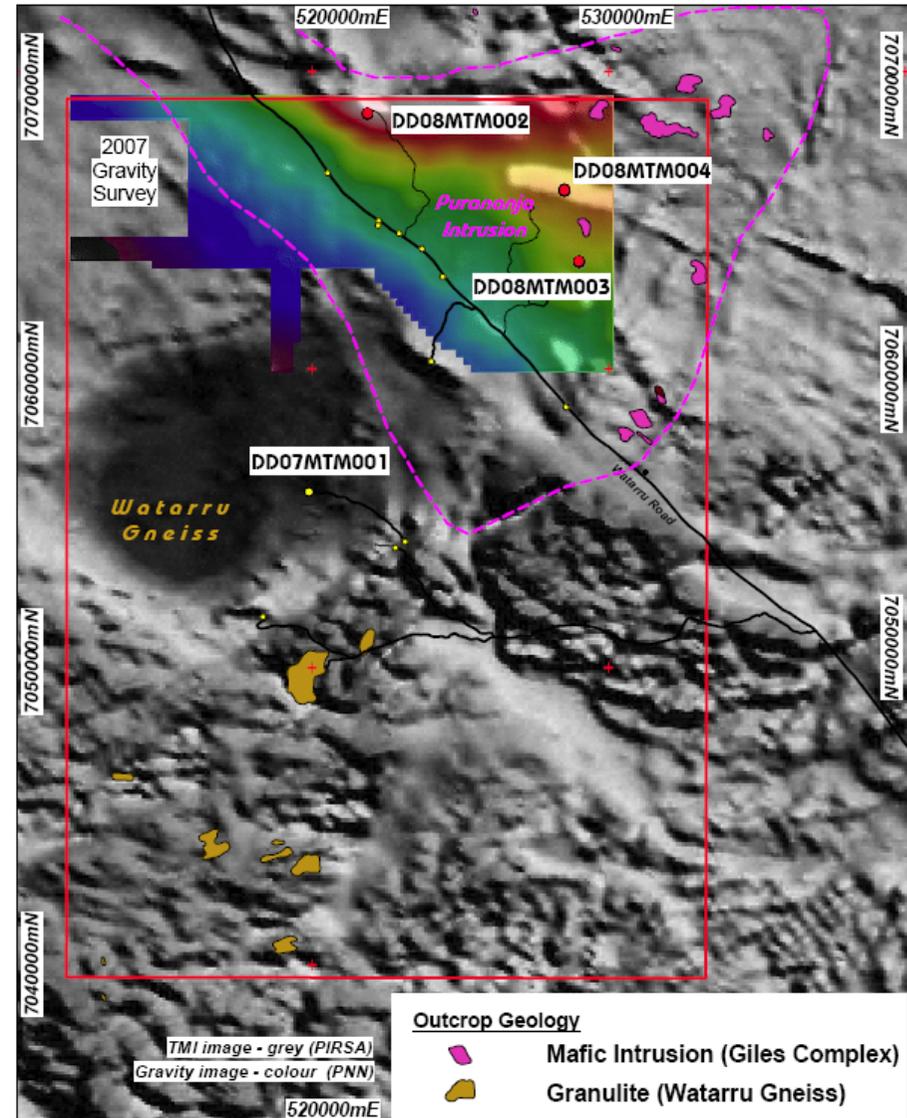
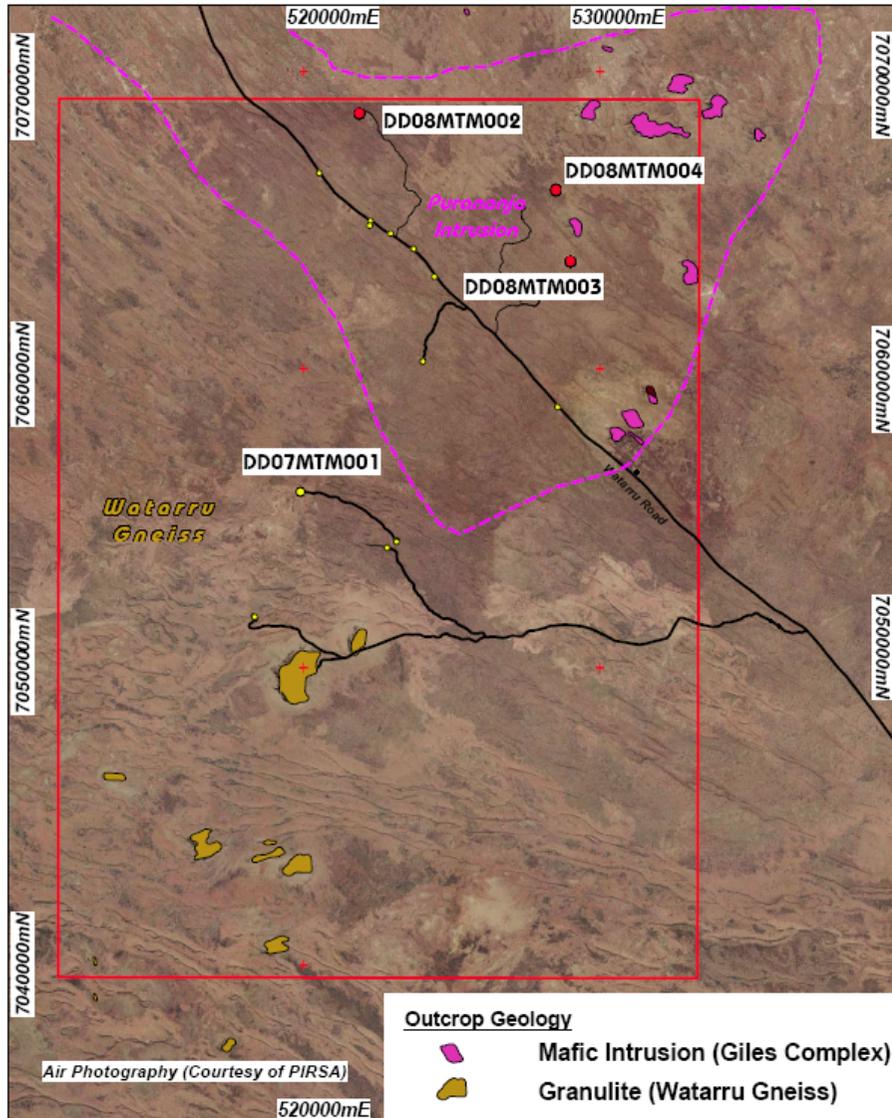
**0.3%Cu, 0.3% Ni**

DD07HAR008

0.7%Cu



## EL3368 (Moulden Block): Drilling Program Status (April 2008)



 EL 3368  
"Moulden Block"

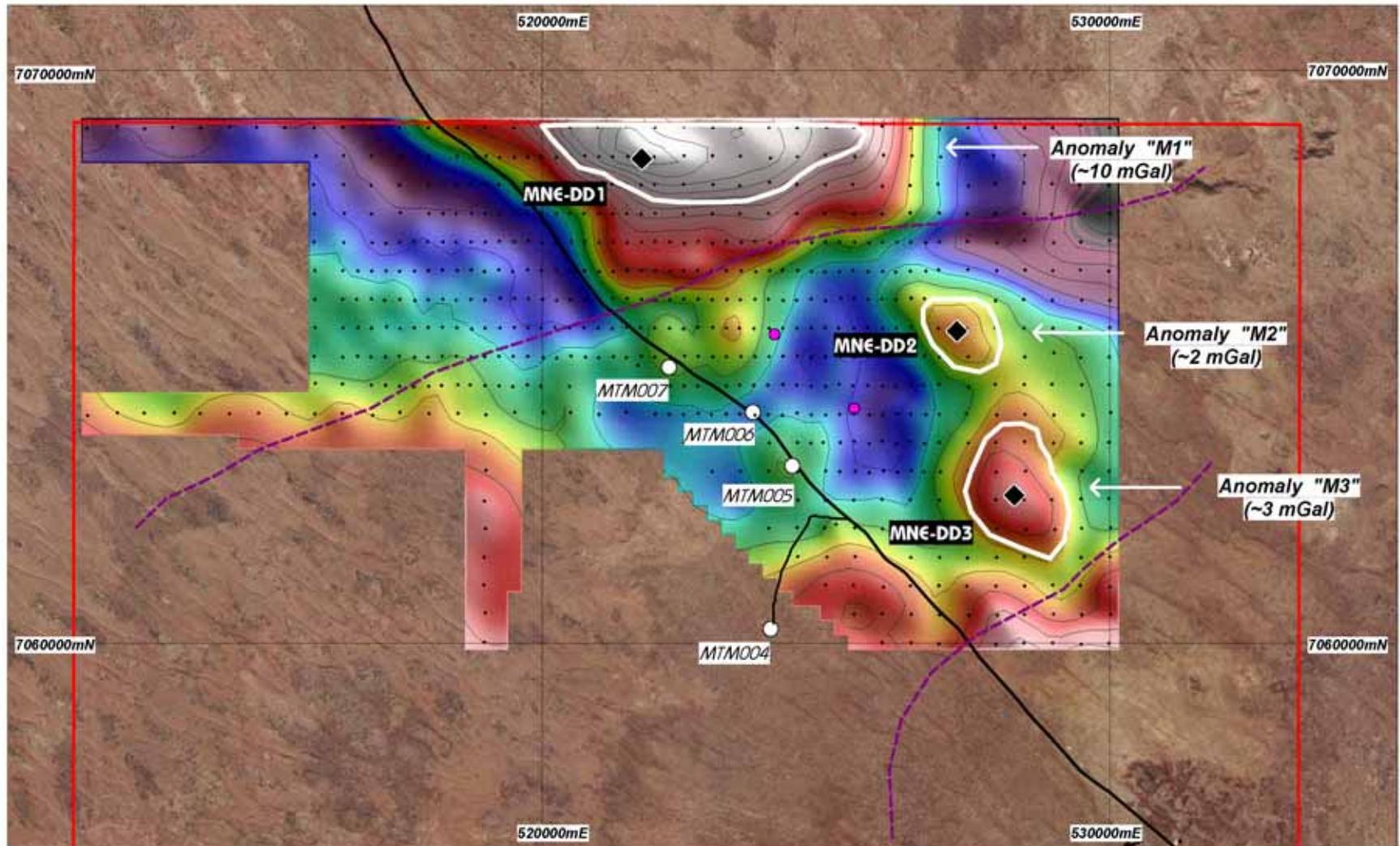
-  Completed PNN & PIRSA Drillholes (pre 2008)
-  Completed Drillholes (2008)



5 km

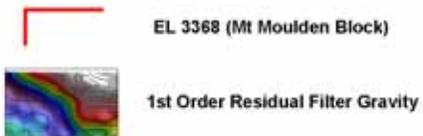
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**EL3368 (Mt Moulden Block): Moulden NE Prospect - Gravity Survey.**



GDA94 - MGA Zone 52

Air Photograph (Courtesy PIRSA)



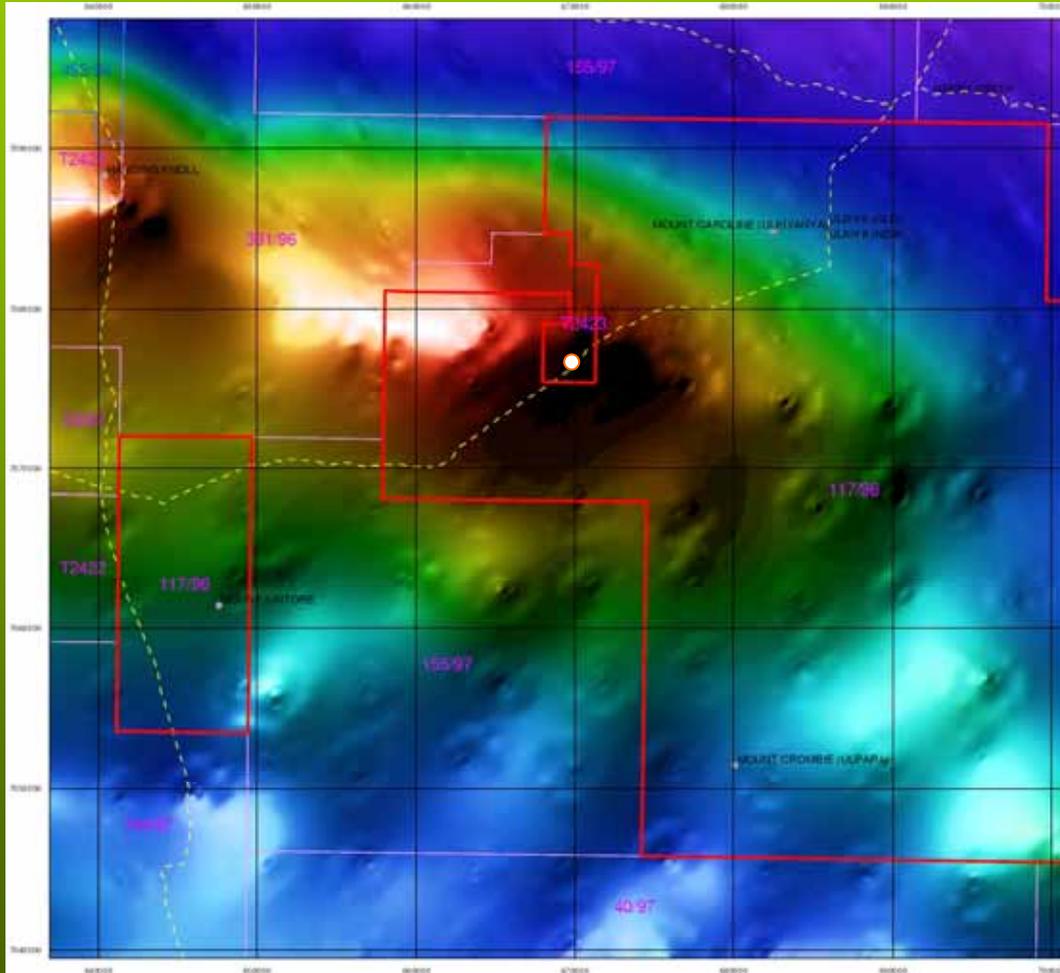
- Gravity Station (June 2007)
- Interpreted Giles Complex (Purananja Intrusion)

- ◆ Proposed Drill Hole
- RC Hole 2006

1000m

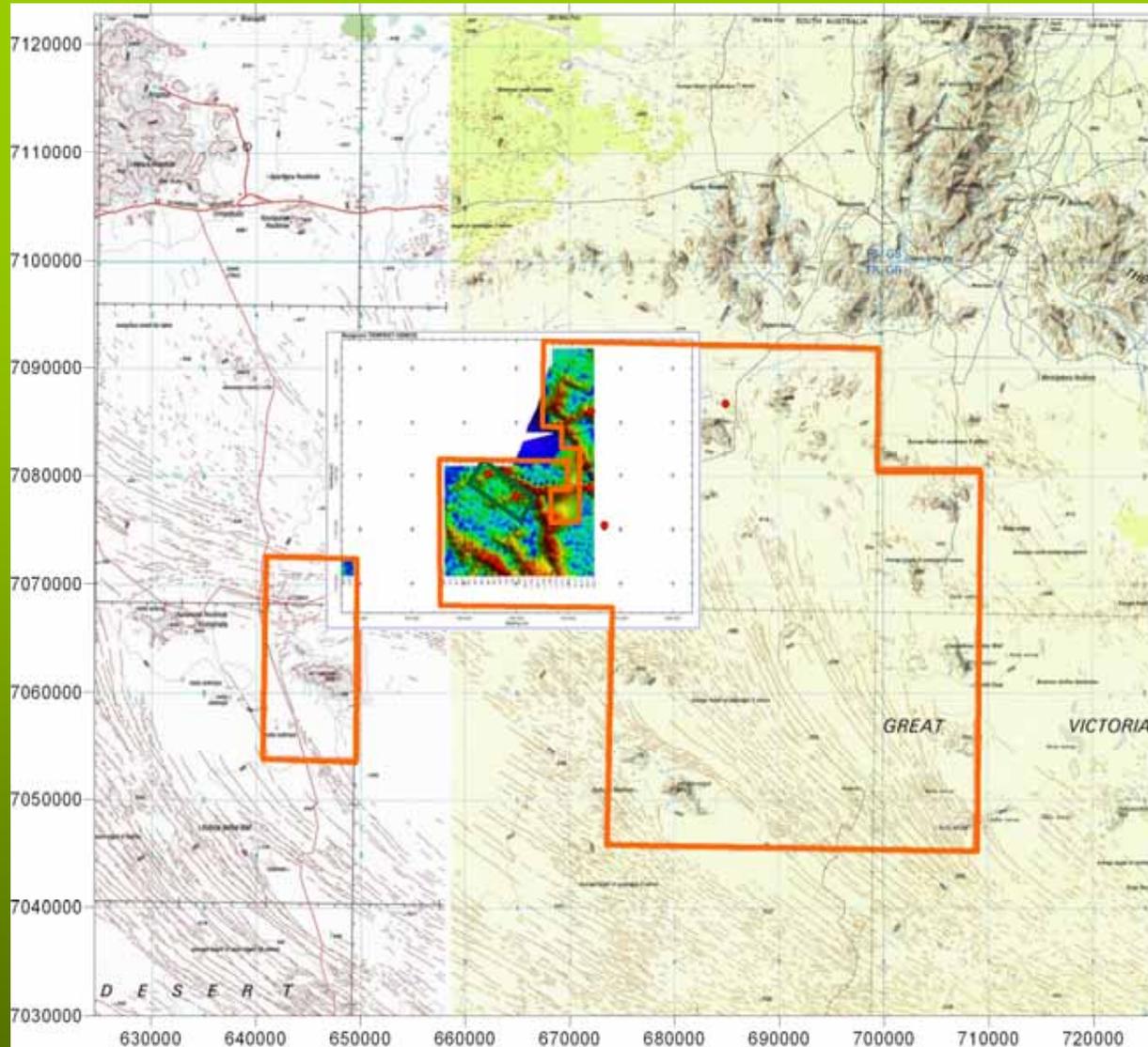
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# Mt Caroline Nickel Target



- Nickel copper sulphide & platinum group metal target
- Similar geological setting to Voisey's Bay
- Largest outcropping layered ultramafic intrusion in SA (18kms x 8kms)
- Published reports consider Mt Caroline to have the highest potential for hosting significant NiS mineralisation
- Airborne EM survey conducted by Rio Tinto has defined drill targets for potential shallow conductive sulphide bodies

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kilometres  
0 10 20

SCALE 1:500,000

 Area of proposed ground geophysical surveys (mag, EM, IP) 15sqkms.

 Proposed borehole location

ELA 117/96  
MOUNT CAROLINE

TEMPEST EM

**Mt Caroline intrusion will be investigated by drilling for the first time in 2008 targeting Tempest EM anomalies. Pentlandite has been identified in outcrop at Mt Caroline.**



Mt Caroline ELA117/96



Immediate Drill Targets

**Outcrop Geology**



Mafic-Ultramafic



Granulite Gneiss

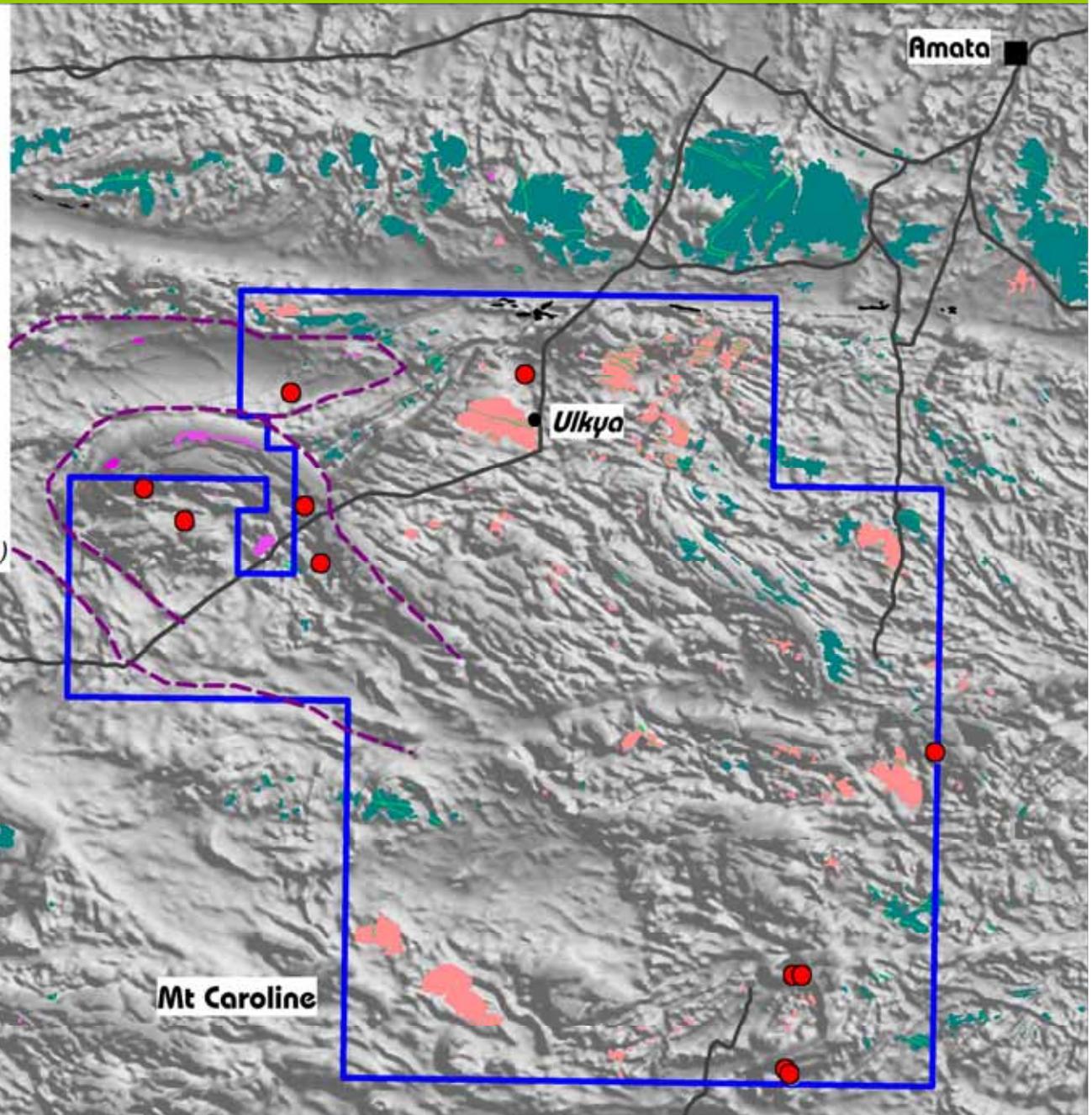


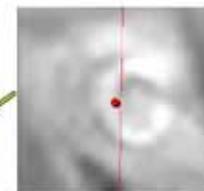
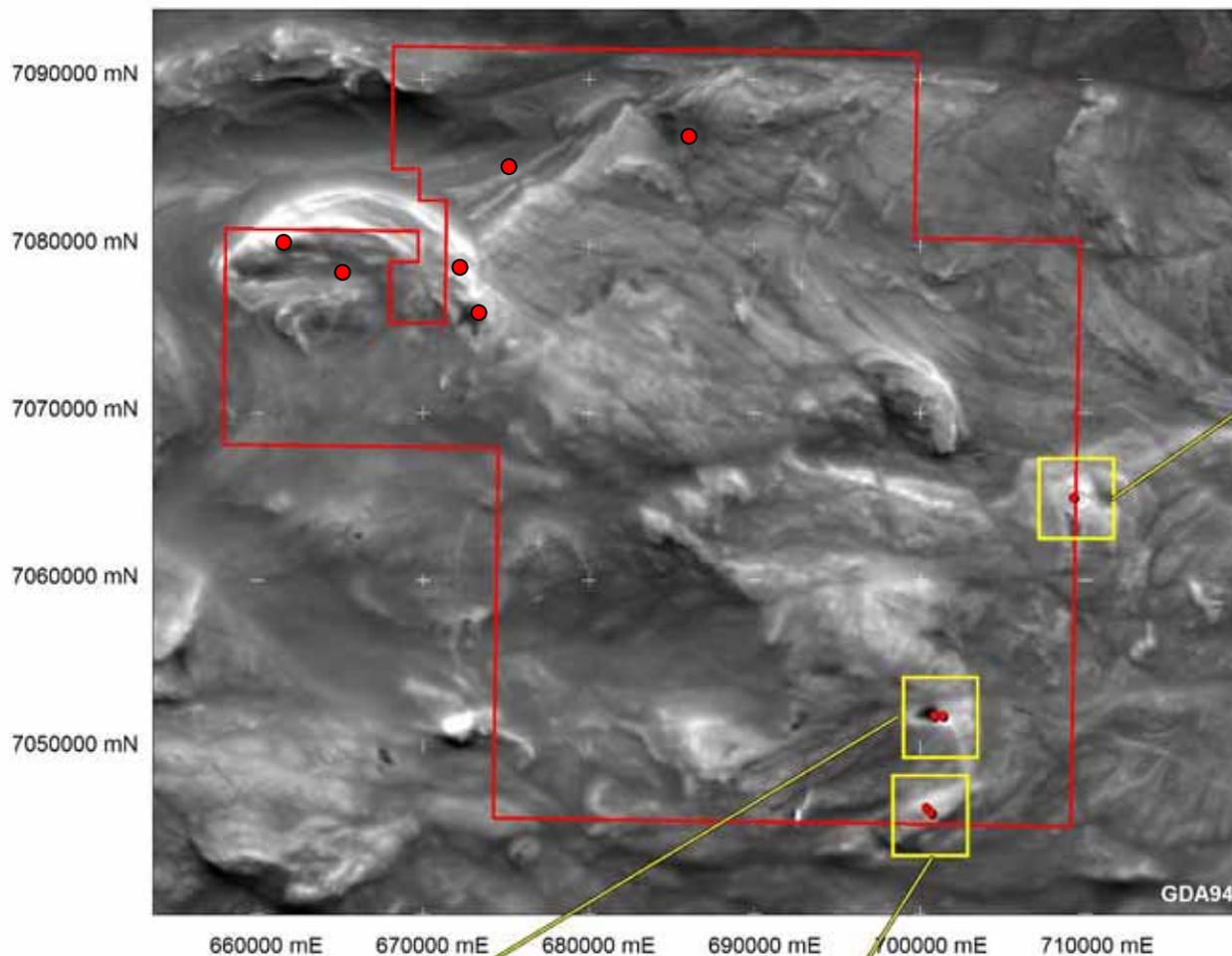
Granite



10 km

Grey Scale - TMI (PIRSA)



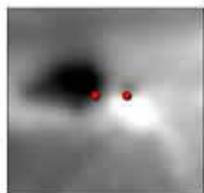


• Proposed borehole

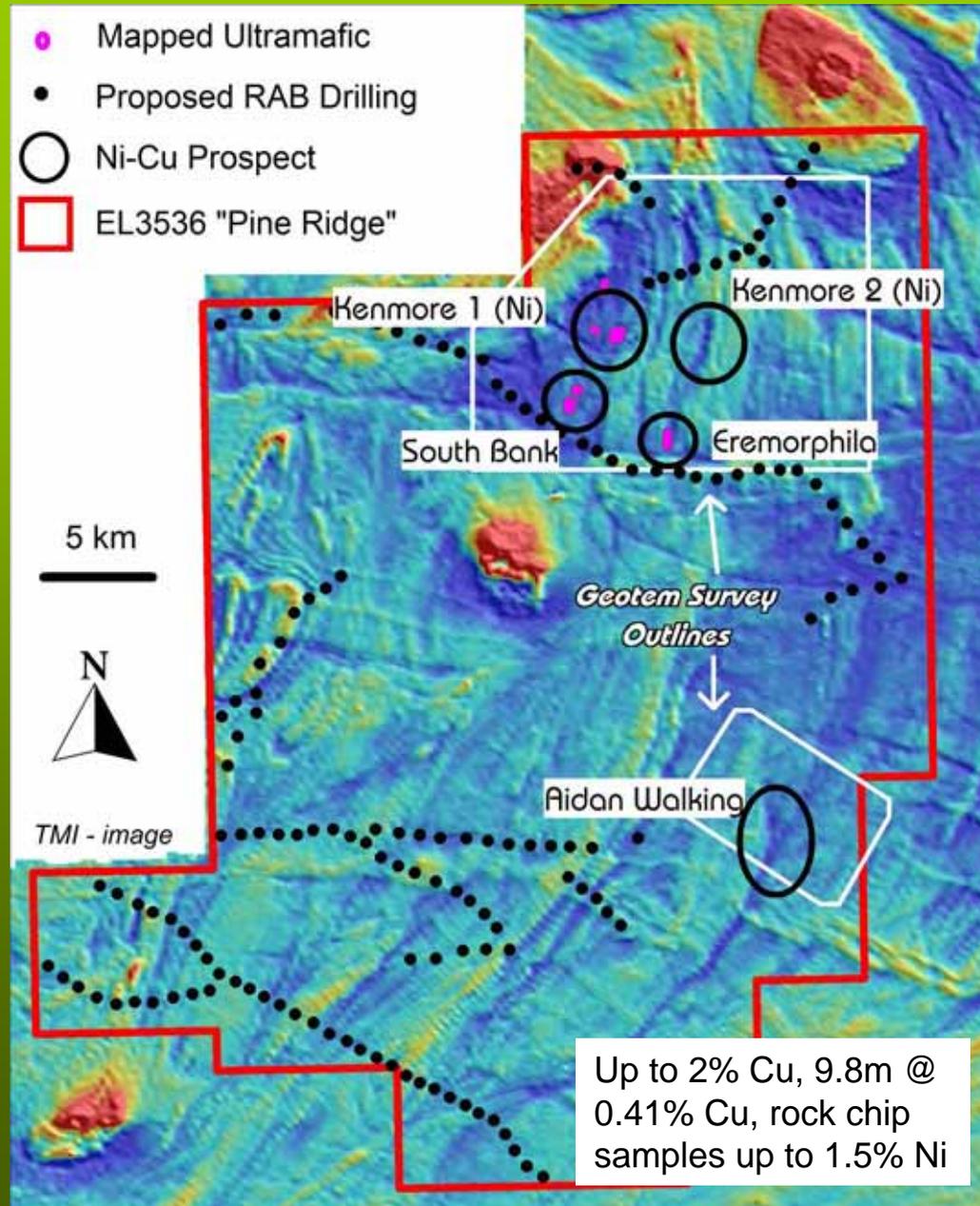
**ELA 117/96  
MOUNT CAROLINE**

**Regional Magnetic Targets**

**Grey Scale TMI  
(courtesy of PIRSA)**



# Pine Ridge EL3536



- Acquired from Rio Tinto
- Mapped ultramafic rocks
- Known Ni & Ni-Cu prospects
- Drilling of nickel targets planned during 2008
- Basement rocks similar to Broken Hill region.
- Potential base metal targets
- Regional shallow drilling to generate base metal targets planned during 2008

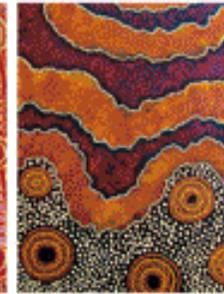
# Company Vacuum Drilling Rig



# SUMMARY

- Actively drill testing targets at Moulden and Harcus
- Discovery & confirmation of sulphides at Harcus
- Testing for zones of sulphide accumulation at Harcus
- Currently testing gravity targets at Moulden
- Extensive exploration programs planned for Mt Caroline and Pine Ridge





# anangu BACKYARD

## STORIES FOR CHILDREN

ANANGU CHILDREN, THEIR PARENTS, GRANDPARENTS AND GREAT GRANDPARENTS ARE SHARING TJUKURPA, THEIR STORIES OF CREATION, FAMILY, FOOD SUPPLIES AND DAILY LIFE. WORKS OF ART FROM THE REMOTE ANANGU/ PITJANTJATJARA/ YANKUNYATJARA LANDS OF FAR NORTH-WEST SOUTH AUSTRALIA.

Left to right: **Pauline Wangin** *Bush Family*, Courtesy of MimiliMaku Arts, Mimili; **Monica Watson** *Wirru Wirru*, Courtesy of Niuku Arts, Kalka; **Vicki Cullinan** *Tjukula* (detail), Courtesy of Iwantja Arts, Indulkana; **Niningka Lewis** *Going Hunting*, (detail) Courtesy of Ernabella Arts, Pukatja; **Nina Roberts** age 11, *Wingu Tingima* (detail), Courtesy of Tjunga Palya Arts, Nyapari; Child painting in Kaltjiti Arts Centre, Fregon; **Katanari Tjilya Kapi** *Tjukula*, Courtesy of Tjala Arts, Amata All works are acrylic on canvas or linen © the artist

**19 APRIL TO 27 MAY 2008**  
**ARTSPACE ADELAIDE FESTIVAL CENTRE**

**Wednesday to Saturday 12 – 5pm**  
**Sunday 10am – 4pm**

During ASSITEJ (World Congress & Performing Arts Festival for Young People)

**Open to public:**  
 Thursday 8 May 1 – 5pm  
 Friday 9 May 1 – 5 pm  
 Wednesday 14 May 2 – 5pm  
 Thursday 15 May 2 – 5pm  
 Friday 16 May 1 – 5pm

Workshop bookings at other times 8271 1422

### PAINTINGS FOR SALE

Artworks by adults and children from:

- |                          |                         |
|--------------------------|-------------------------|
| <b>Ernabella Arts</b>    | Ernabella (Pukatja)     |
| <b>Iwantja Arts</b>      | Indulkana               |
| <b>Kaltjiti Arts</b>     | Fregon                  |
| <b>Mimili Maku Arts</b>  | Mimili                  |
| <b>Niuku Arts</b>        | Kalka, Pipalyatjara     |
| <b>Tjala Arts</b>        | Amata                   |
| <b>Tjunga Palya Arts</b> | Nyapari, Watarru, Kanpi |

**FREE**

**Storytelling with Pitjantjatjara artists: 10 May 2008 from 1 – 4pm**  
**Ernabella School Choir: 10 May 2008 at 6pm**

Proudly sponsored by **PepinNini**

Contact: [artspace@adelaidefestivalcentre.com.au](mailto:artspace@adelaidefestivalcentre.com.au) 08 8216 8850 or 08 8216 8600



[adelaidefestivalcentre.com.au](http://adelaidefestivalcentre.com.au)





Pepini

2008/09  
Program

### *Uranium Project*

- Drilling for resource definition at Crocker Well and investigation of other uranium prospects
- Metallurgical testing of Crocker Well ore
- Commence Regulatory Approvals Process, Environmental Impact Statement and Bankable Feasibility Study for Crocker Well Uranium Deposit

*A\$5 million budget over 18 months  
(Sinosteel Corporation commitment)*

### *Curnamona Base Metals Project*

- Extensive drilling program of identified prospects with copper/gold and lead/zinc potential

*A\$6 million budget over 18 months  
(Sinosteel Corporation commitment)*



Pepiniini

2008/09  
Program

### *Musgrave Province Nickel Project*

- Geophysical and geochemical surveys over all granted tenements
- Drilling programs at Mt Marcus, Mt Moulden, Mt Caroline and Pine Ridge targets  
*A\$3 million budget over 12 months*

### *Western Australia*

- Iron Ore drilling program
- Gold reserves drilling program  
*A\$1.5 million over 12 months*

### *Queensland Project*

- Commence field operations including a drilling program  
*A\$1.5 million over 12 months*



# Thank You

## Disclaimer:

- The information in this presentation is published to inform you about PepinNini Minerals Limited and its activities. All reasonable effort has been made to provide accurate information, but we do not warrant or represent its accuracy and we reserve the right to make changes to it at any time without notice.
- To the extent permitted by law, PepinNini Minerals Limited accepts no responsibility or liability for any losses or damages of any kind arising out of the use of any information contained in this presentation. Readers are advised to consult a stockbroker or professional adviser before making any investment decisions.
- The information in this presentation that relates to Exploration Results and Mineral Resources is based on information compiled by Norman Kennedy BSc MAusIMM. Norman Kennedy is the Managing Director of PepinNini Minerals Limited and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration to qualify as a Competent Person as defined in the 2004 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Norman Kennedy consents to the inclusion in the report of the matters based on his information in the form and context in which it appears

**PepinNini**