

Recent ASX Announcements:

14 March 2016

Bonanza gold from Edna Beryl

1.83m @ 139.7 g/t gold from drill hole A

1.83m @ 309.5 g/t gold from drill hole B

1.83m @ 93.4 g/t gold from drill hole C

19 May 2016

High Grade Gold at Edna Beryl West

5m at 27g/t gold incl. 2m at 51g/t gold

13m at 8.7g/t gold incl. 7m at 15g/t gold

5 July 2016

High Grade Gold at Edna Beryl

6m at 13.2g/t gold incl. 3m at 15.7g/t gold

3m at 11.2g/t gold

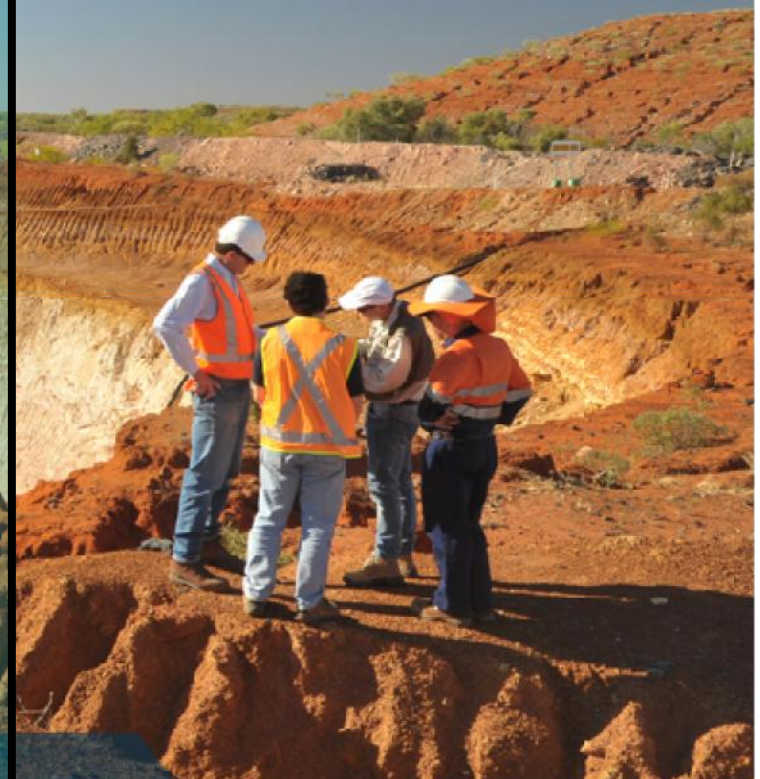
9m at 5.33m g/t gold incl. 3m at 10.4g/t gold

2 August 2016

Further High Grade “Bonanza” Gold at Edna Beryl

5m at 35.6g/t gold from 120m

2m at 30.1g/t gold from 128m



Mining the Territory – September 2016

Adam Walters, Manager - Projects

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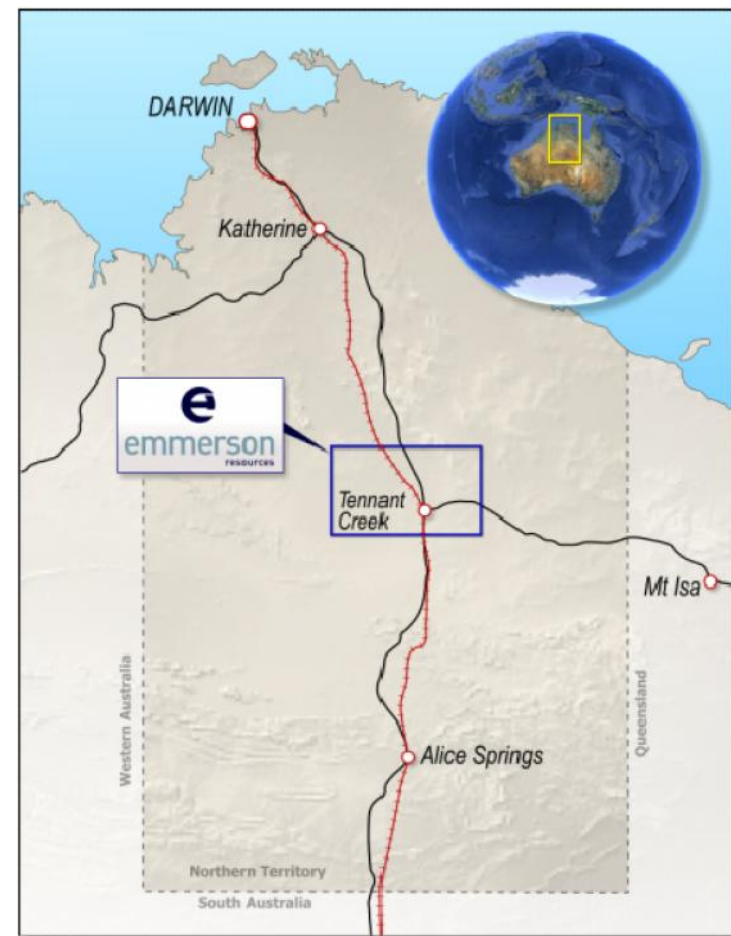
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Emmerson Resources in Tennant Creek



- 9 years of exploration
- \$5M exploration budget for 2016
- Application of new technologies to revitalise Australia's highest grade gold field
- Exploration & small mines strategies



Tennant Creek Project

JV with Evolution



HOA 12 June 2014 Exploration commences	JV agreement 20/12/2014	Dec 2015 Min commitment \$7.5M	June 2017 \$15M for 65% JV interest	June 2019 \$ 25M for 75% JV interest
FY 14	FY15	FY16	FY17	FY18 + Fy19
\$0.283M	\$4.5M	\$5M	\$5.0M	\$10M
		LTD \$10.0M*		

Eldorado-Chariot
(resource
extensions)

Mauretania
Discovery

Gecko copper Discovery
Edna Beryl gold Discovery

Ironstone fertility Indicator
Seismic surveys
Televiwer

Value Proposition
New generation of high grade gold
deposits
Modest Income stream from small
mines initiative

JV also included ~\$2m EVN shares + placement in ERM of
~13%

The Emmerson Tennant Creek Strategy

....Two key strategies



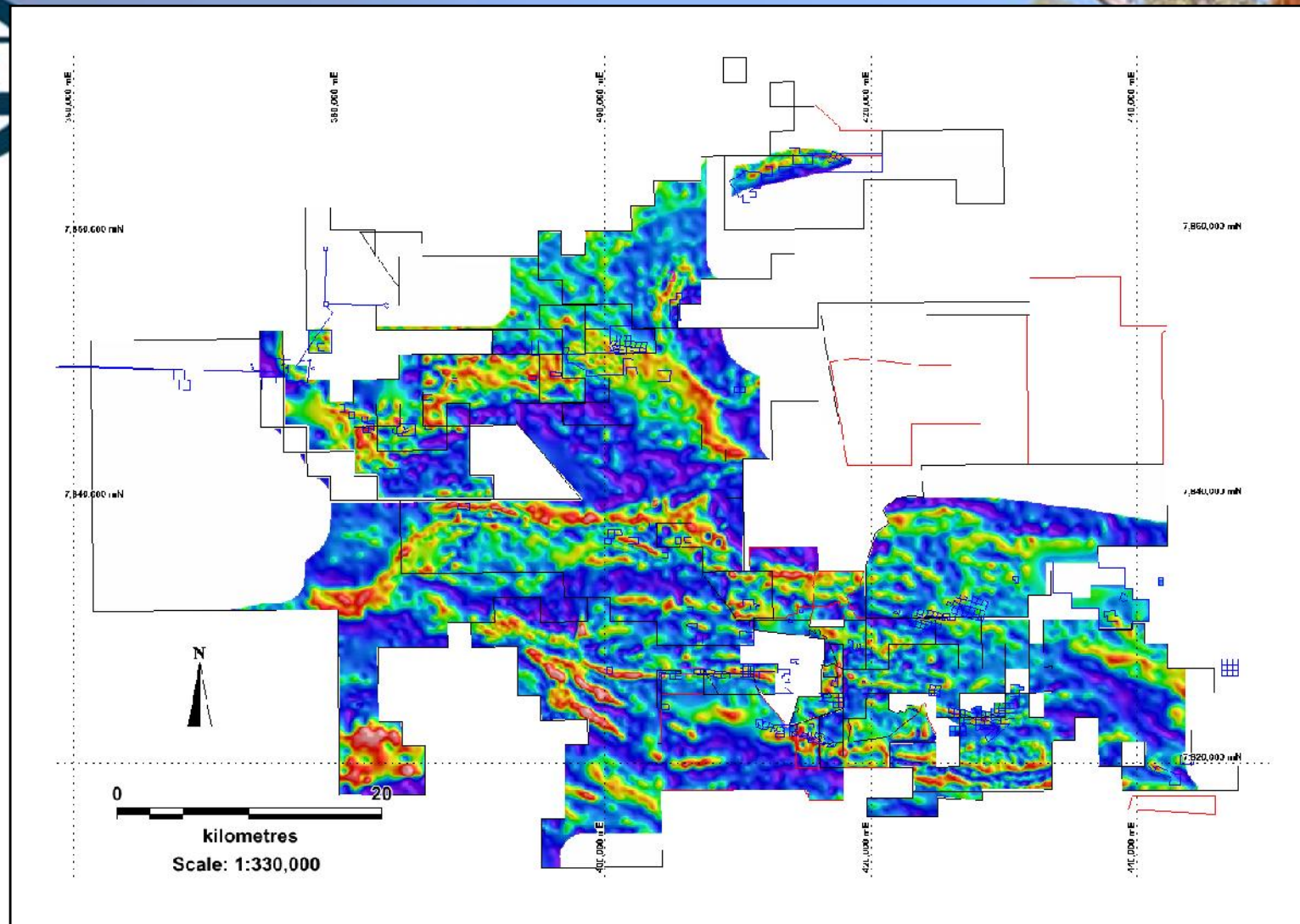
- **Application of new technology/ideas to make new discoveries in Tennant Creek**

Examples are the discoveries of Goanna and Edna Beryl using the first application of airborne Electromagnetics (HeliTEM) and seismic in the Tennant Creek Mineral Field

- **Small Mines – monetise existing resources and provide opportunities for “near mine” discoveries**

Examples include Edna Beryl (under development and will be one of Australia’s highest grade gold mines) plus pipeline of others incl. Malbec, Chariot, Eldorado, Black Snake.....plus Orlando gold-copper

Detailed Ground Gravity

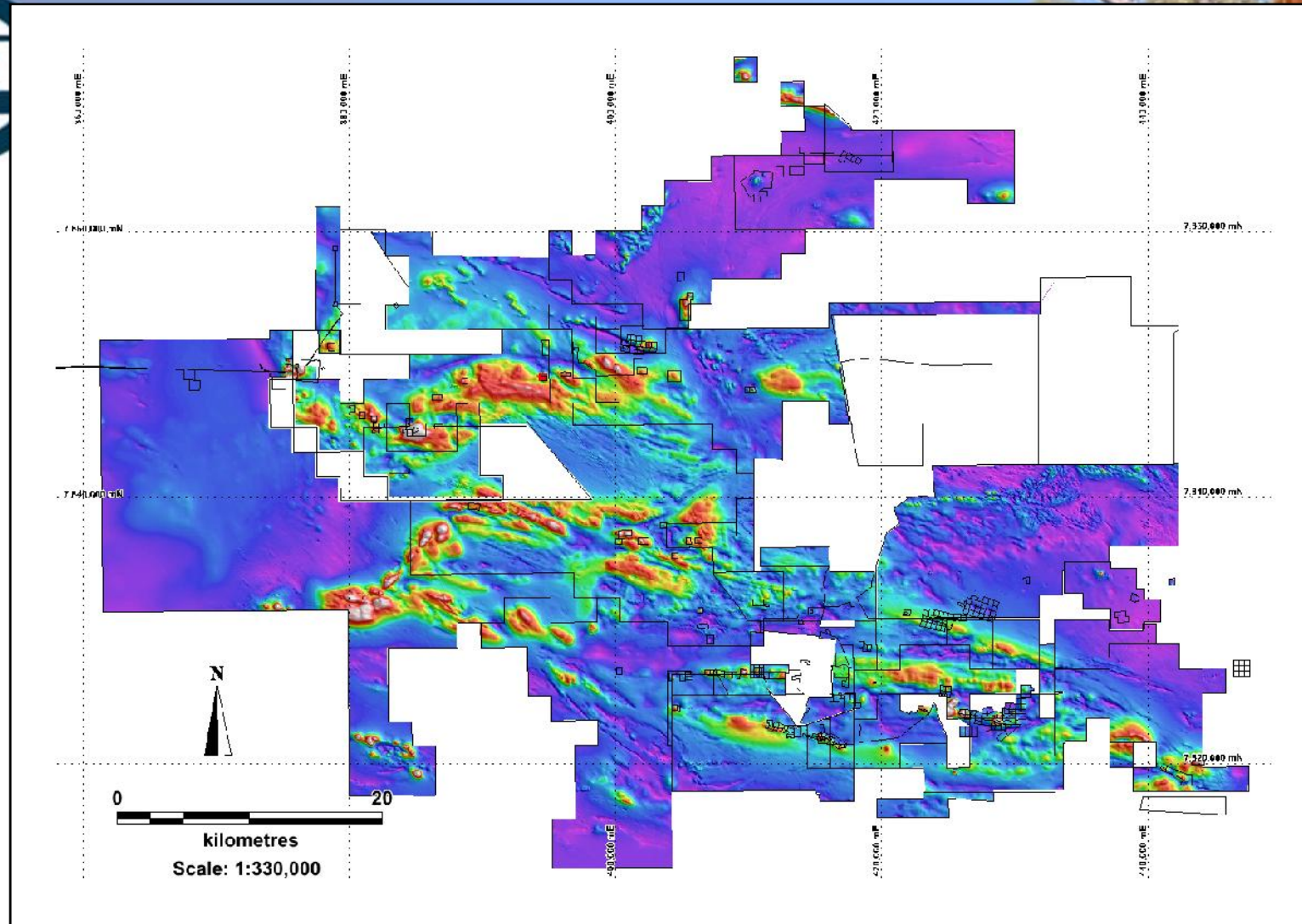


Genetics

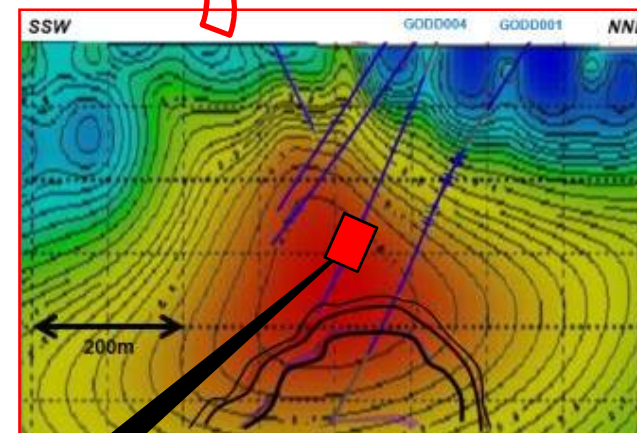
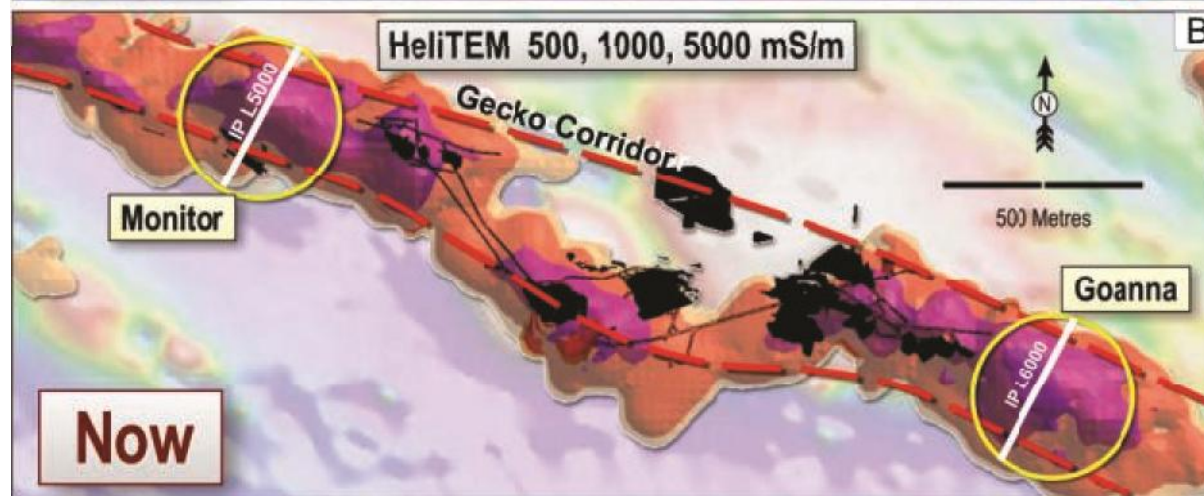
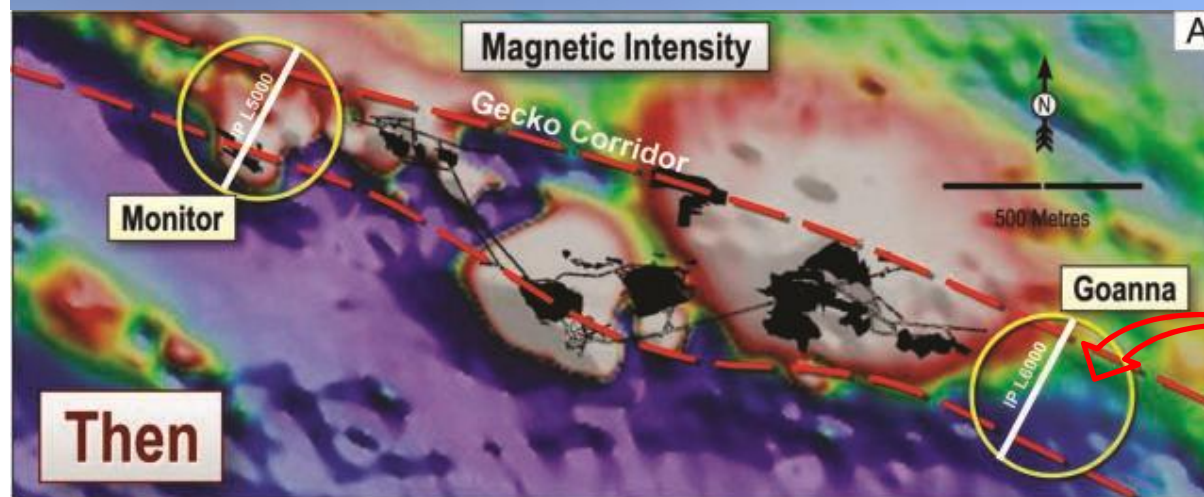


Vector Residual Magnetic Intensity (VRMI)

Post-VRMI Magnetics



Heli-TEM & IP



GODD004 - 21m @ 2.6% Cu & 0.69% Bi
incl. 7m @ 4.96% Cu & 0.25% Bi



Seismic Acquisition

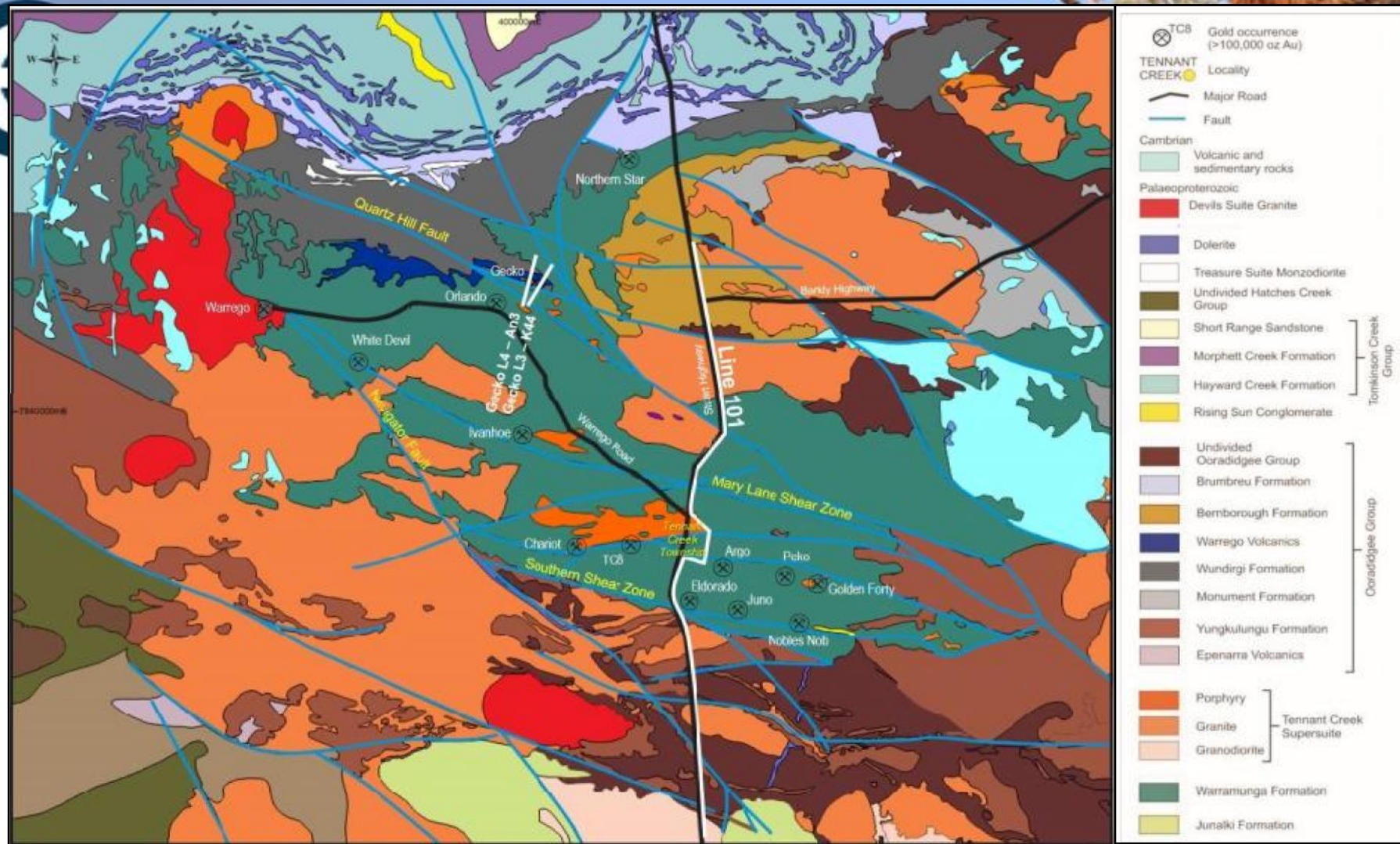
Regional & Project Scale



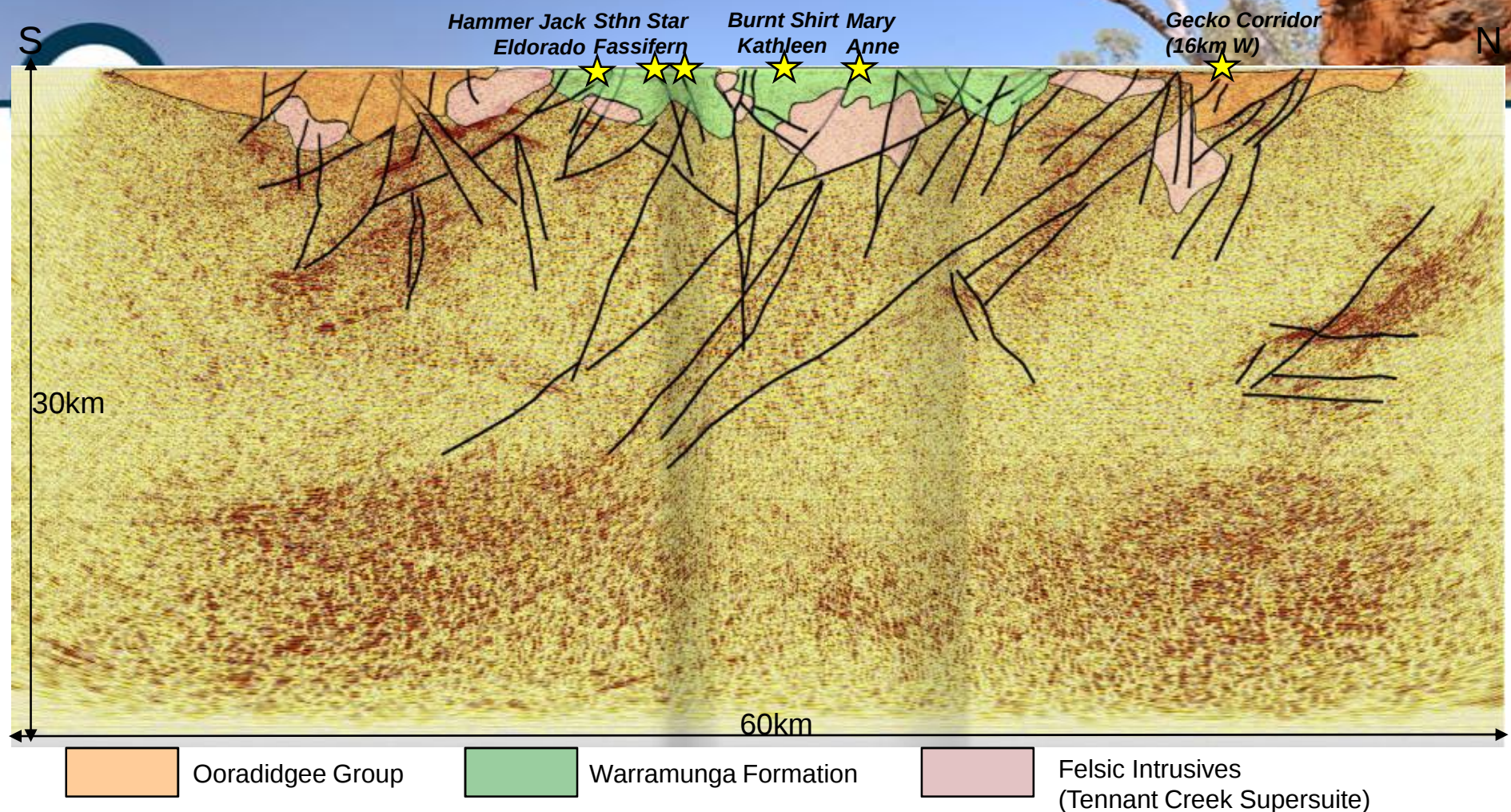
- 60km Regional Seismic line
- Co-funded by NT government
- Acquired in 2015
- 3 Seismic lines acquired over the historical Gecko – Goanna Area
- NT government Co-funded deep diamond drill hole completed below Gecko Mine

Seismic Acquisition

Regional & Project Scale



Regional Seismic Interpretation



- The location of gold deposits/occurrences show a strong relationship to the thrust faults where they are associated with Tennant Creek Supersuite felsic intrusions
- Principal deposits appear ca 1-1.5km above interpreted granite bodies

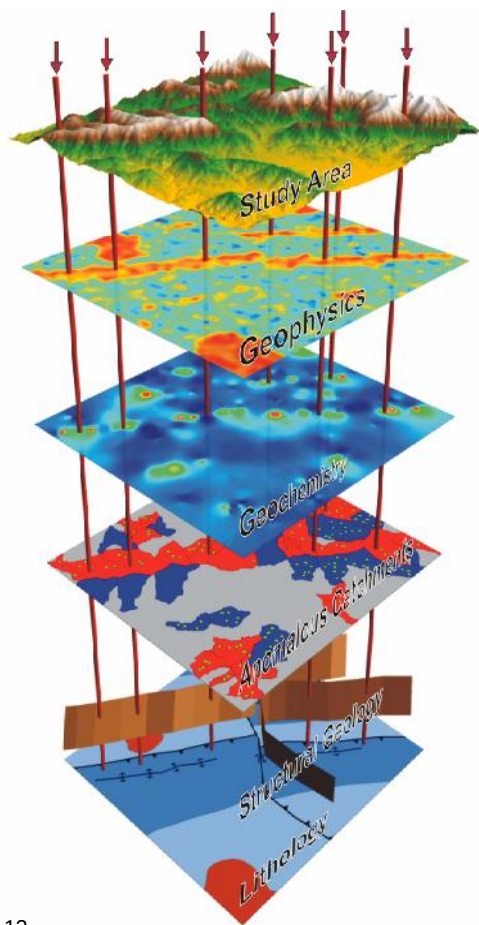
Predictive Modelling

Application of big data by Kenex



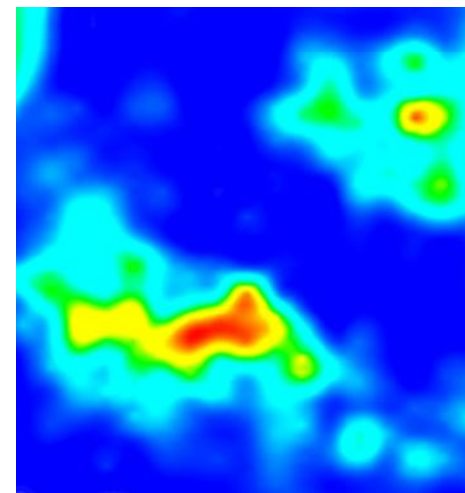
Aiming to deliver:

- New greenfields targets & discoveries
- Underexplored brownfields targets to grow current resource base



Weighted
aggregation
process*

*Unbiased,
probability based



New targets

emmerson
resources

Predictive Modelling

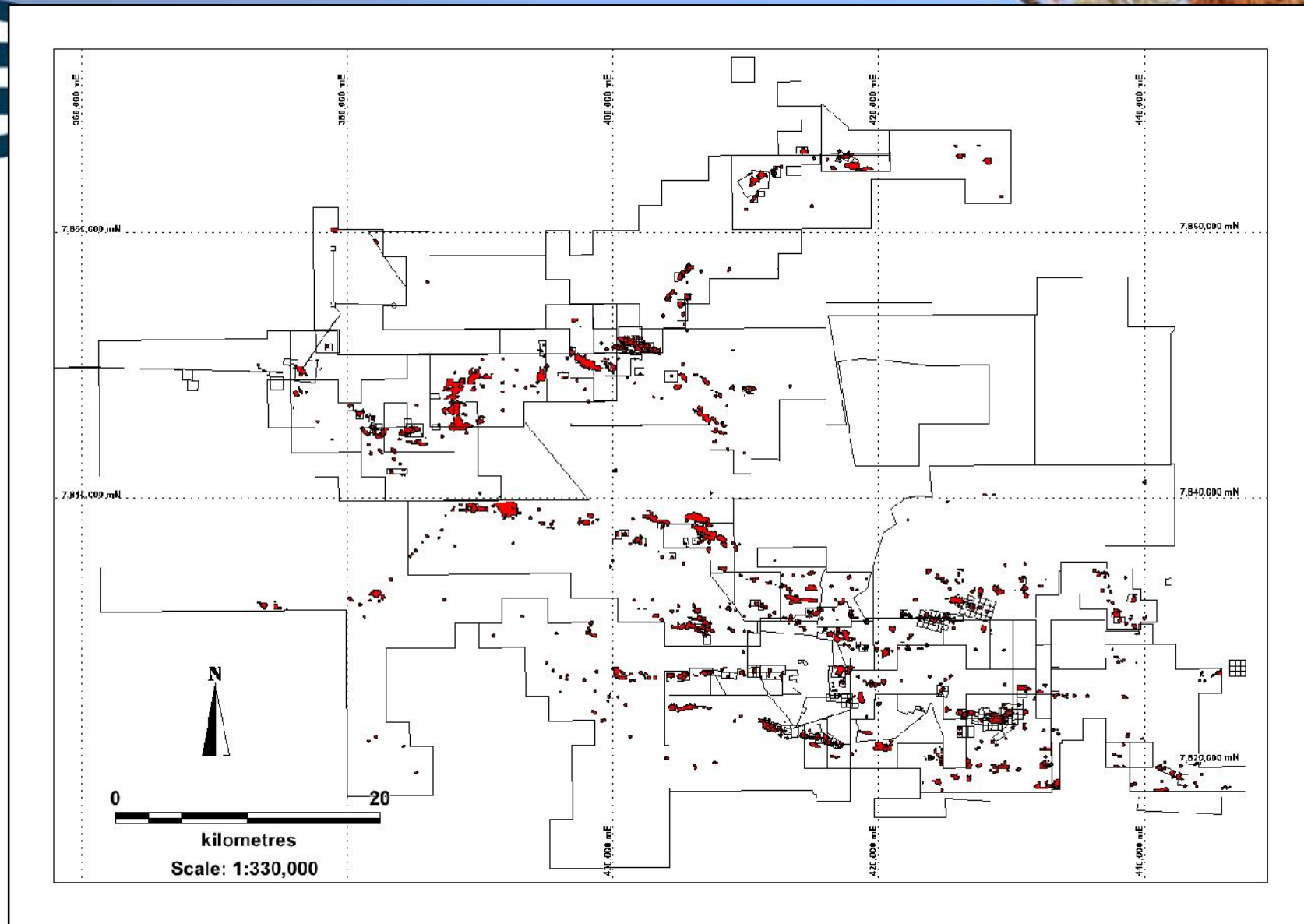
- Kenex



- Generation of 15 predictive maps;
 - Utilising 15 key parameters
- Kenex ran three models;
 - Weights of Evidence (WOE) model (which used all 15 predictive maps);
 - Lineal Regression (LR) model (which used 12 of the 15 predictive maps);
 - 3D model (which used 11 of the 15 predictive maps)
- Gridded cells are give a numerical weighting (in terms of its adherence to the parameter being assessed)
- The values for each parameter are combined to give a number of resultant values (between 0 and 1)
- These resultant values aim to generate a target area that has the essential parameters to host Tennant Creek Style Mineralisation.

Predictive Modelling

- Kenex



Archimedes

Advanced processing of magnetics data



The key differentiating processing methods that Archimedes have developed to the next level are:

- **Fault & Fracture Detection Method using magnetics along profiles**

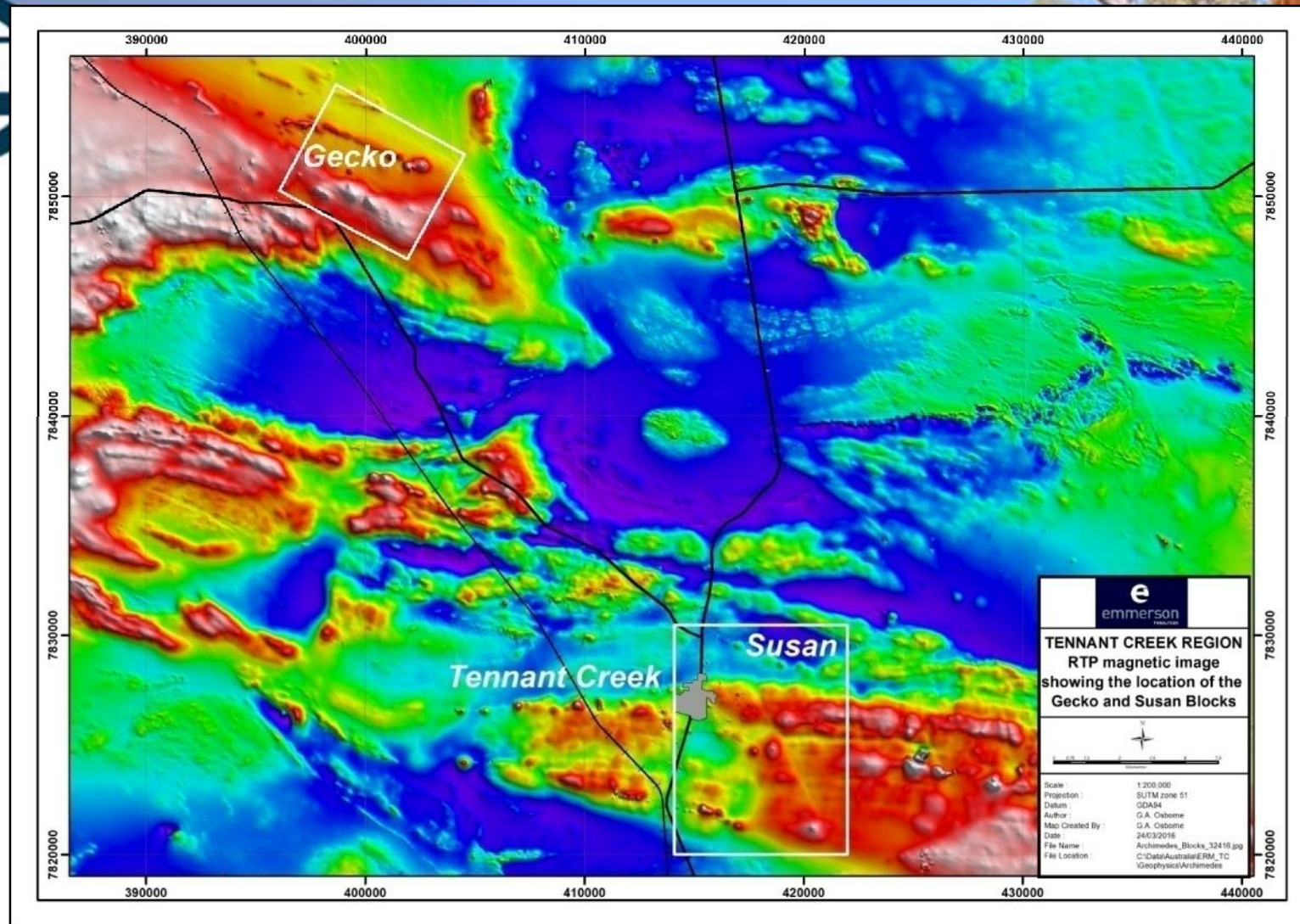
This method is called Automatic Curve Matching (ACM) and is used for interpretation of high resolution magnetic lineaments which may be interpreted as faults, fracture patterns or other geological features (e.g. stress regimes) both in basement and within the sedimentary section

- **Horizon Mapping Technique using gridded magnetics, gravity or gravity gradiometry**

This technique is called Energy Spectral Analysis (ESA) and is used for interpretation of multiple horizons

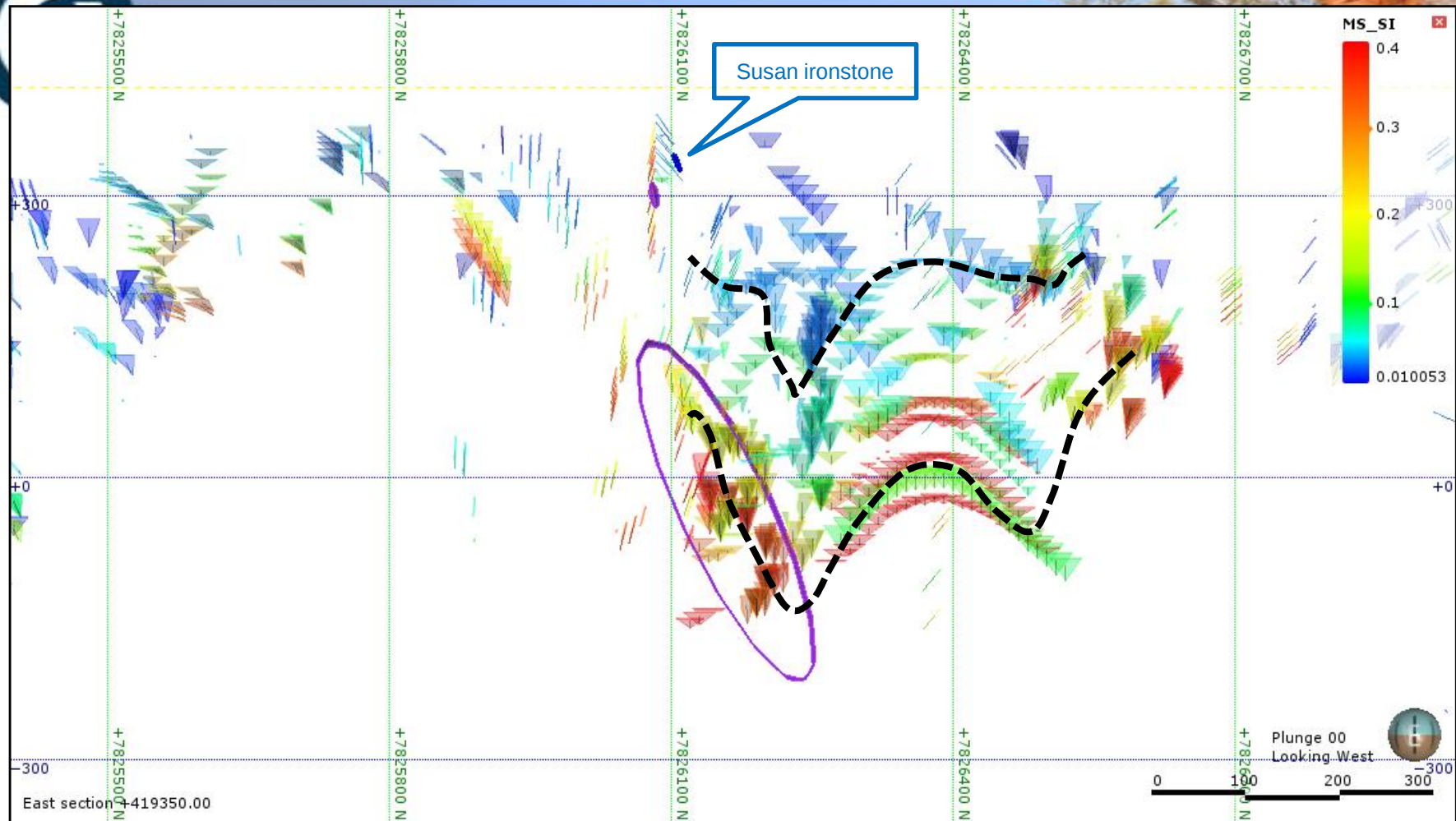
Archimedes

Advanced processing of magnetics data



Archimedes

Advanced processing of magnetics data

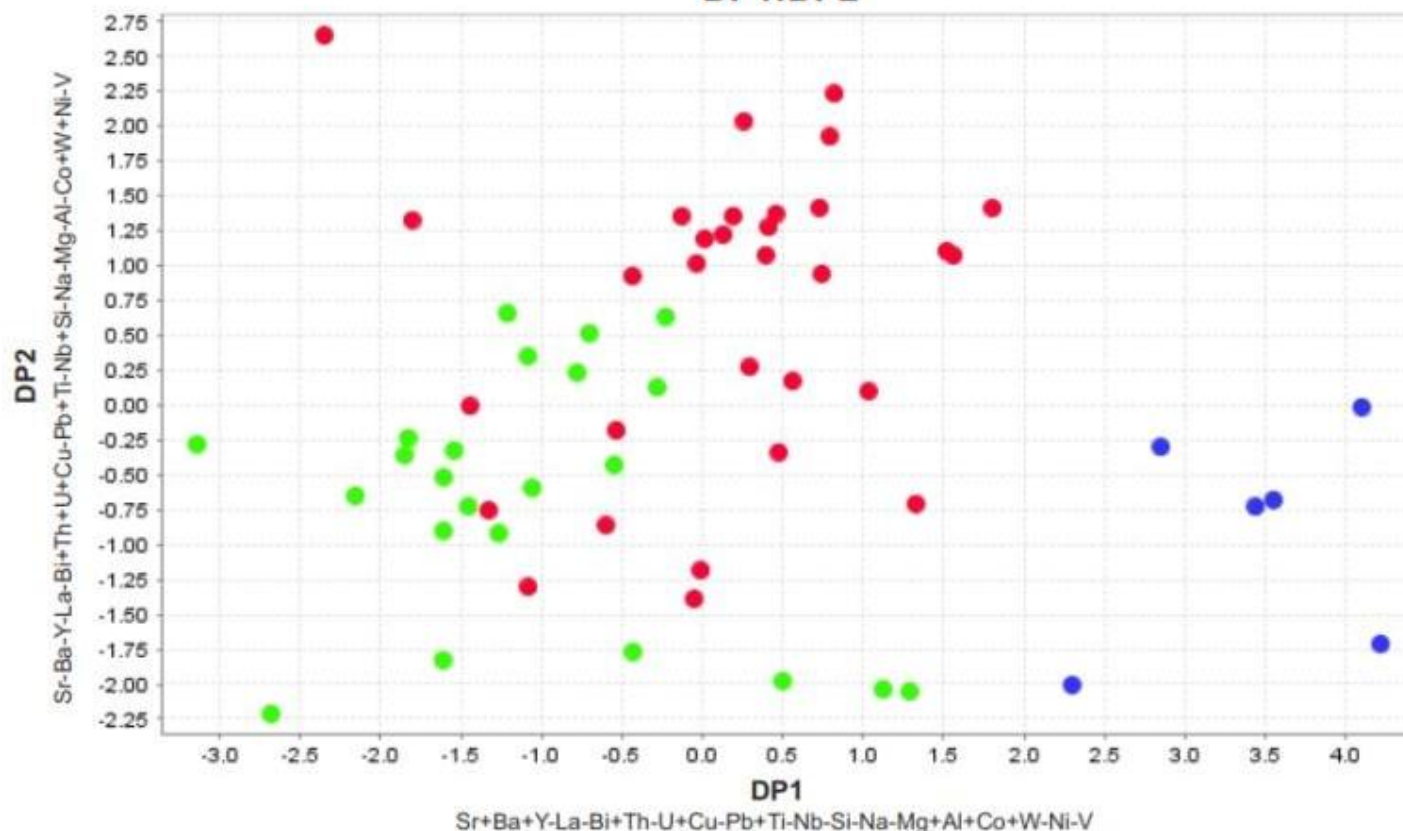


Hematite Geochemistry



- 18 hematite ± magnetite samples were analysed to establish their signature in an attempt to recognise near-misses in exploration drilling
- Laser Ablation Inductively Coupled Plasma Mass spectrometry (LA-ICPMS). 19 trace elements were used to separate barren, near-ore and mineralized ironstone samples

Discriminant Projection Analysis (DPA) Plot
DP1:DP2



Legend

- MINERALISED
- NEAR-ORE
- BARREN



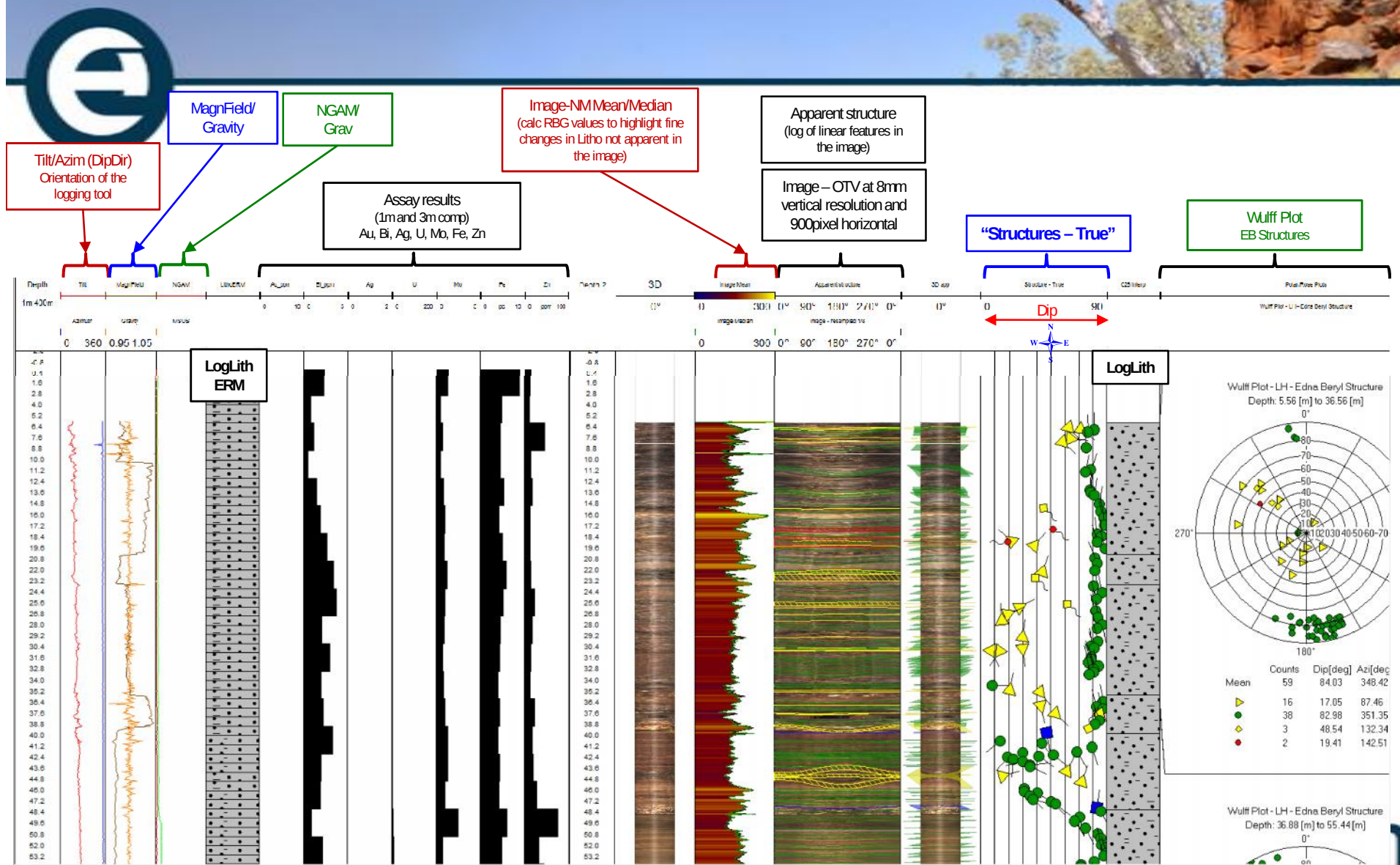
Televiewer



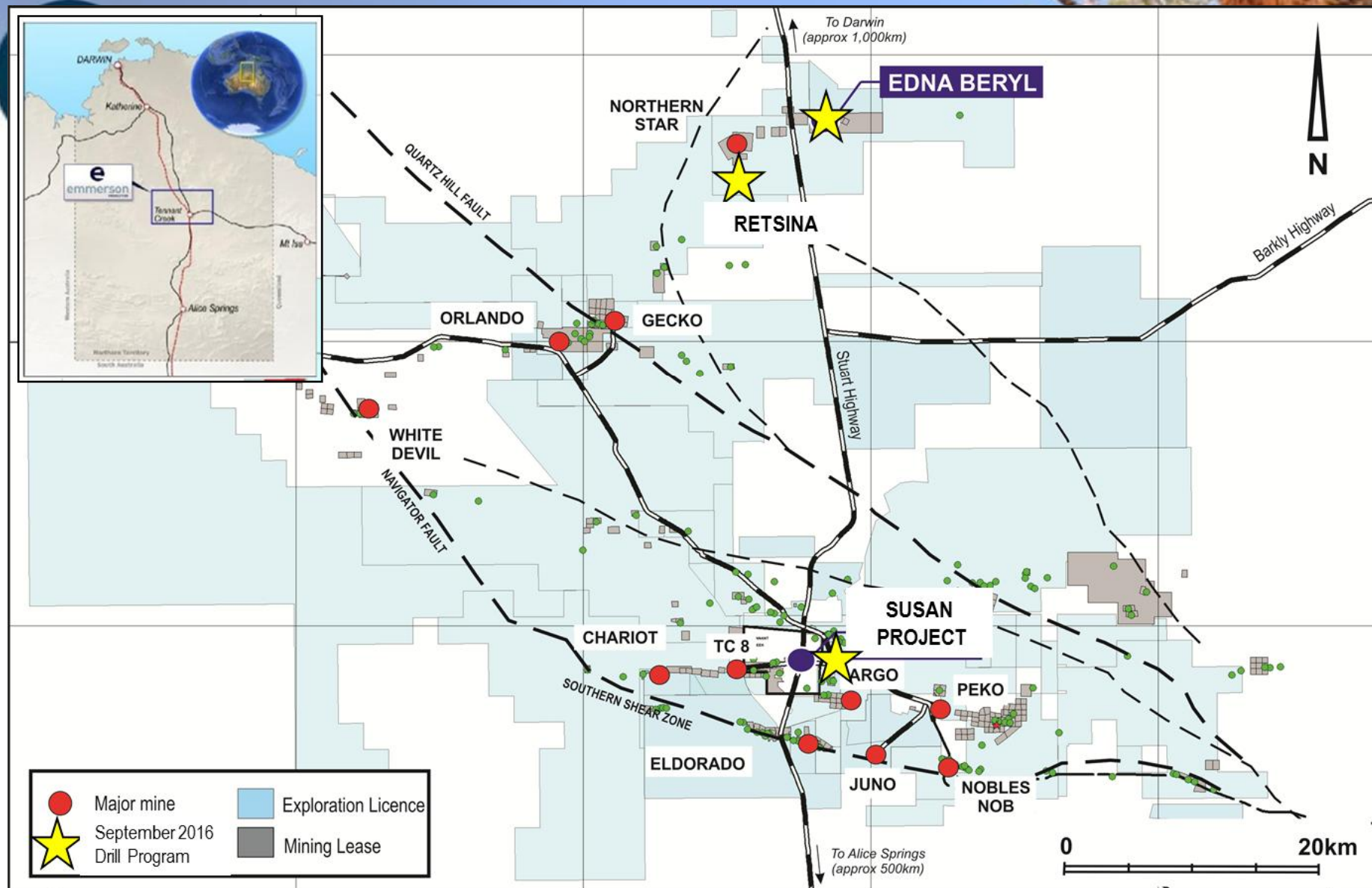
- Downhole logging was undertaken by ABIMS about 2 weeks after the RC drilling was completed.
- Holes were logged with **OTV**, **Magnetic Field Intensity** (MFI), **Magnetic Susceptibility** (MS) and **Natural Gamma Radiation** (NG).



Televiewer



Current Projects in Tennant Creek

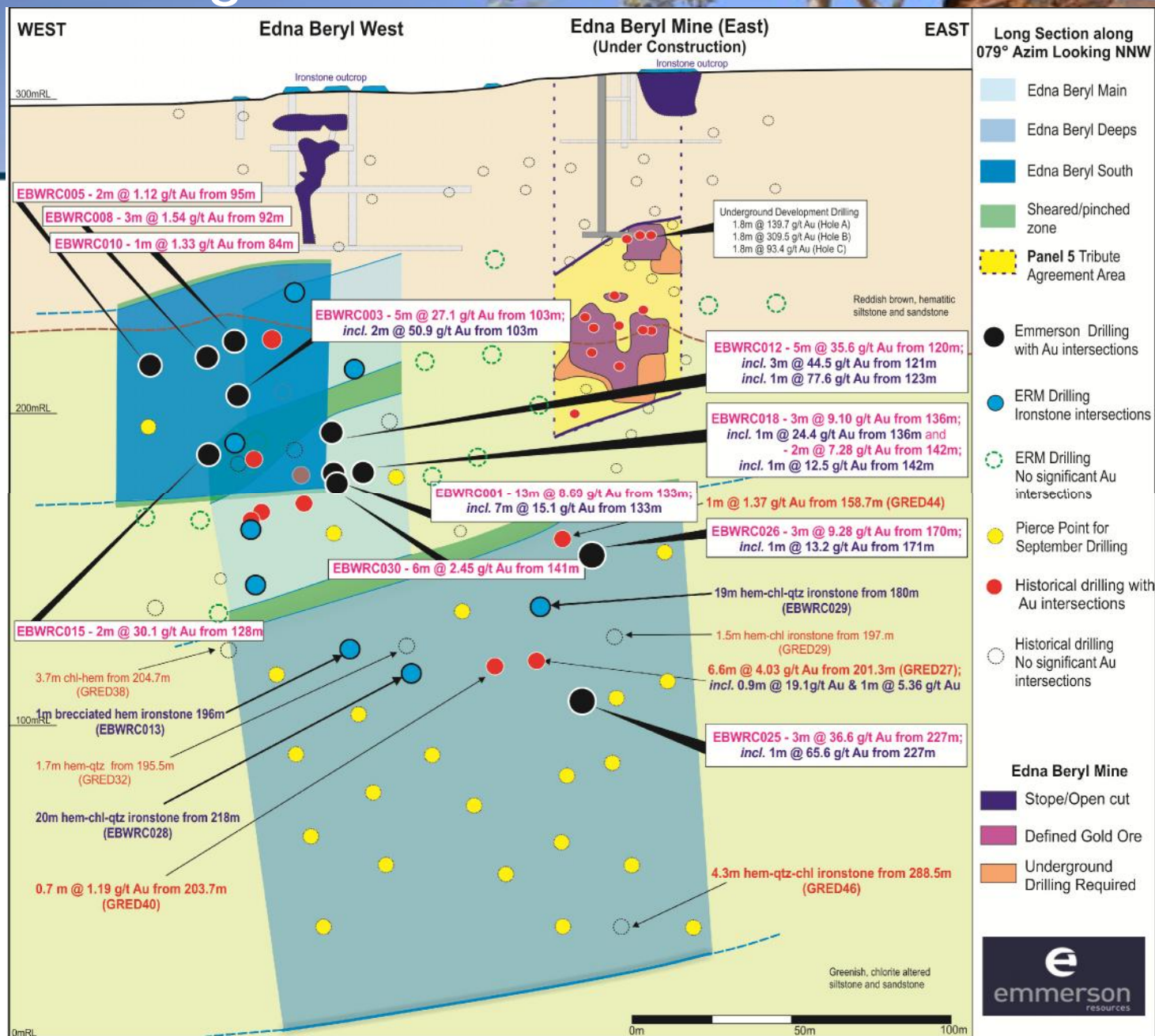


Proposed Drilling

Edna Beryl



Drilling
commenced
9th
September

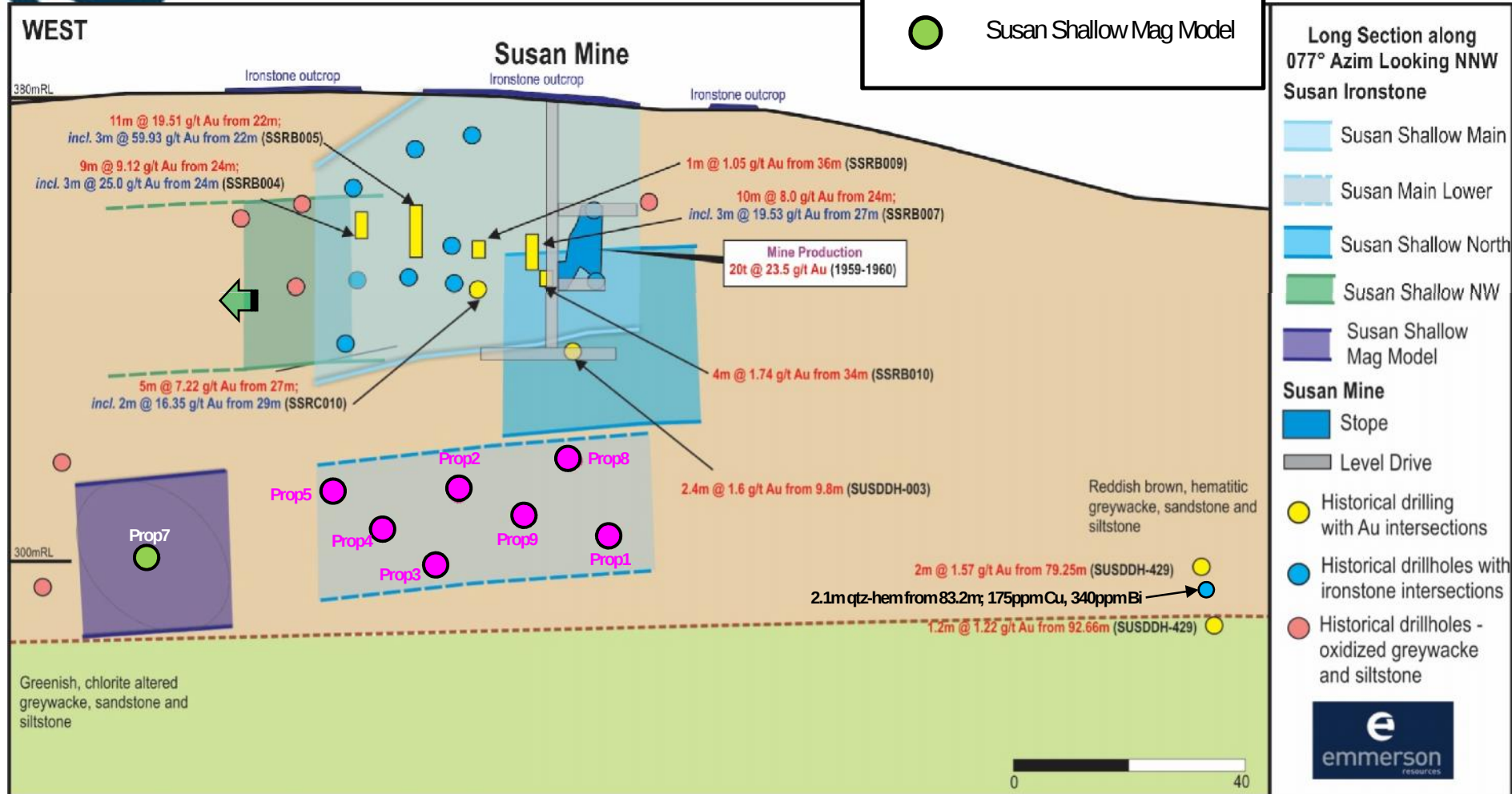


Proposed Drilling Susan – Shallow Oxide

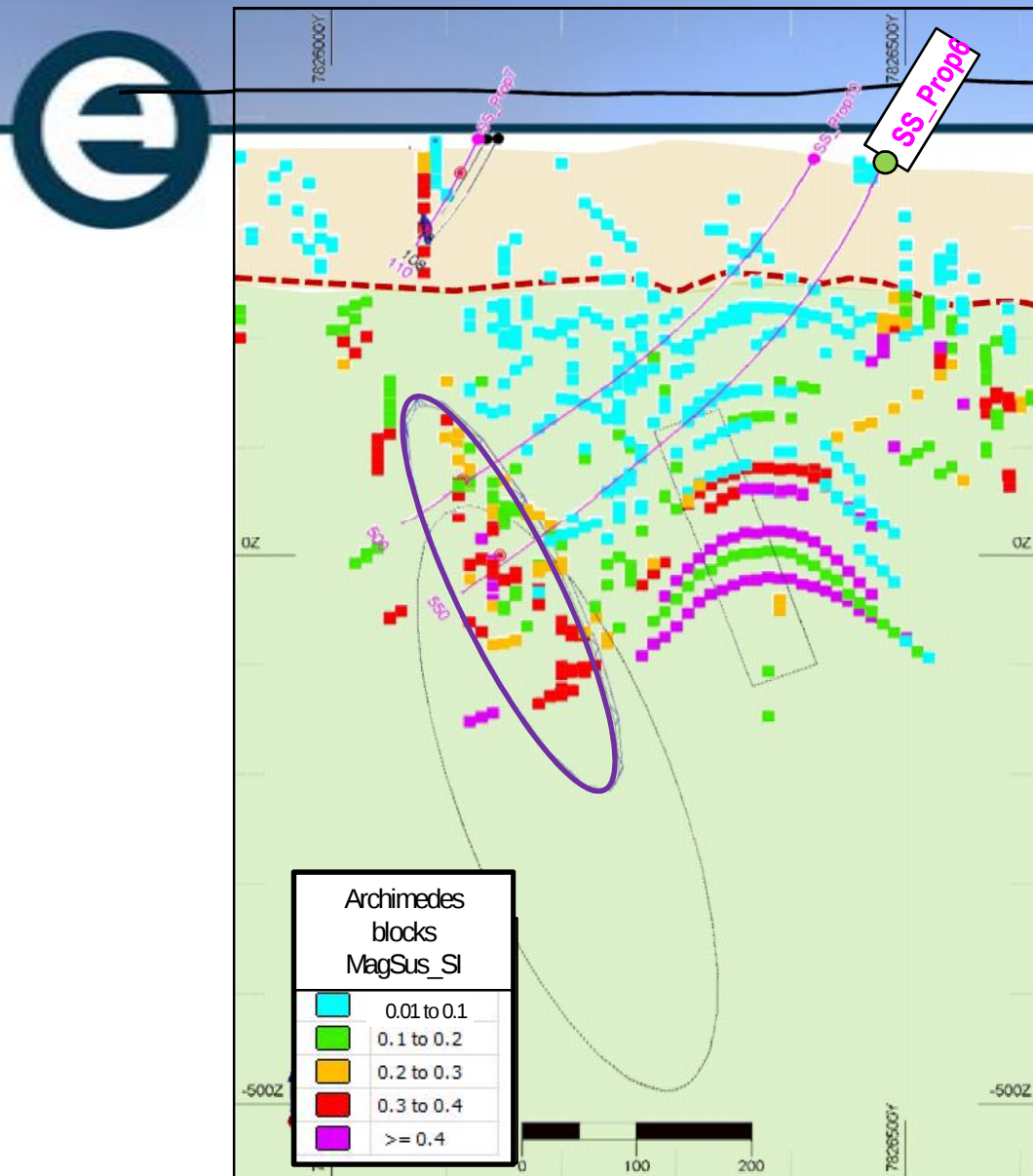


Pierce point - Proposed holes

- Susan Oxides
- Susan Shallow Mag Model



Proposed Drilling –Susan Deeps

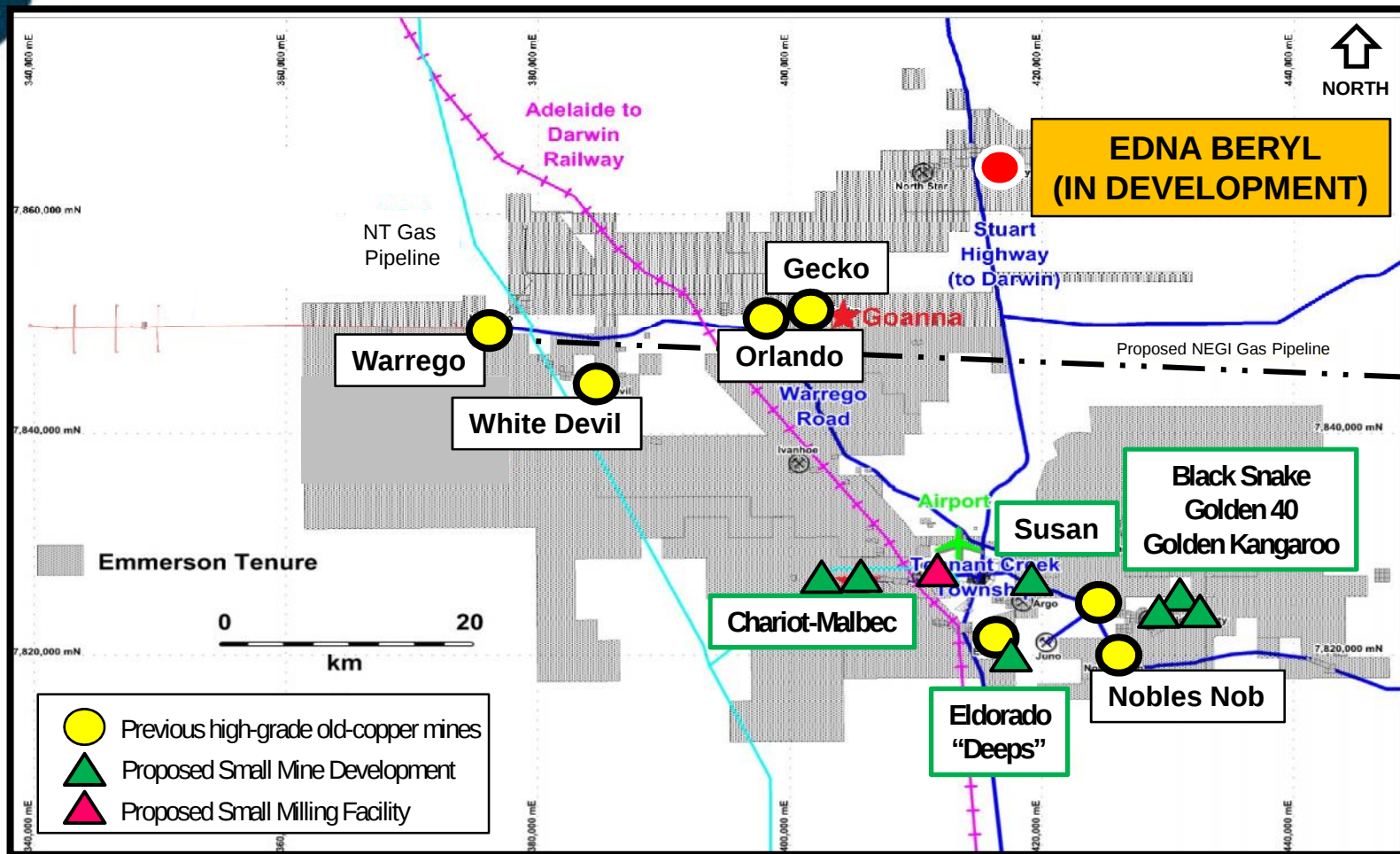


SS_Prop6

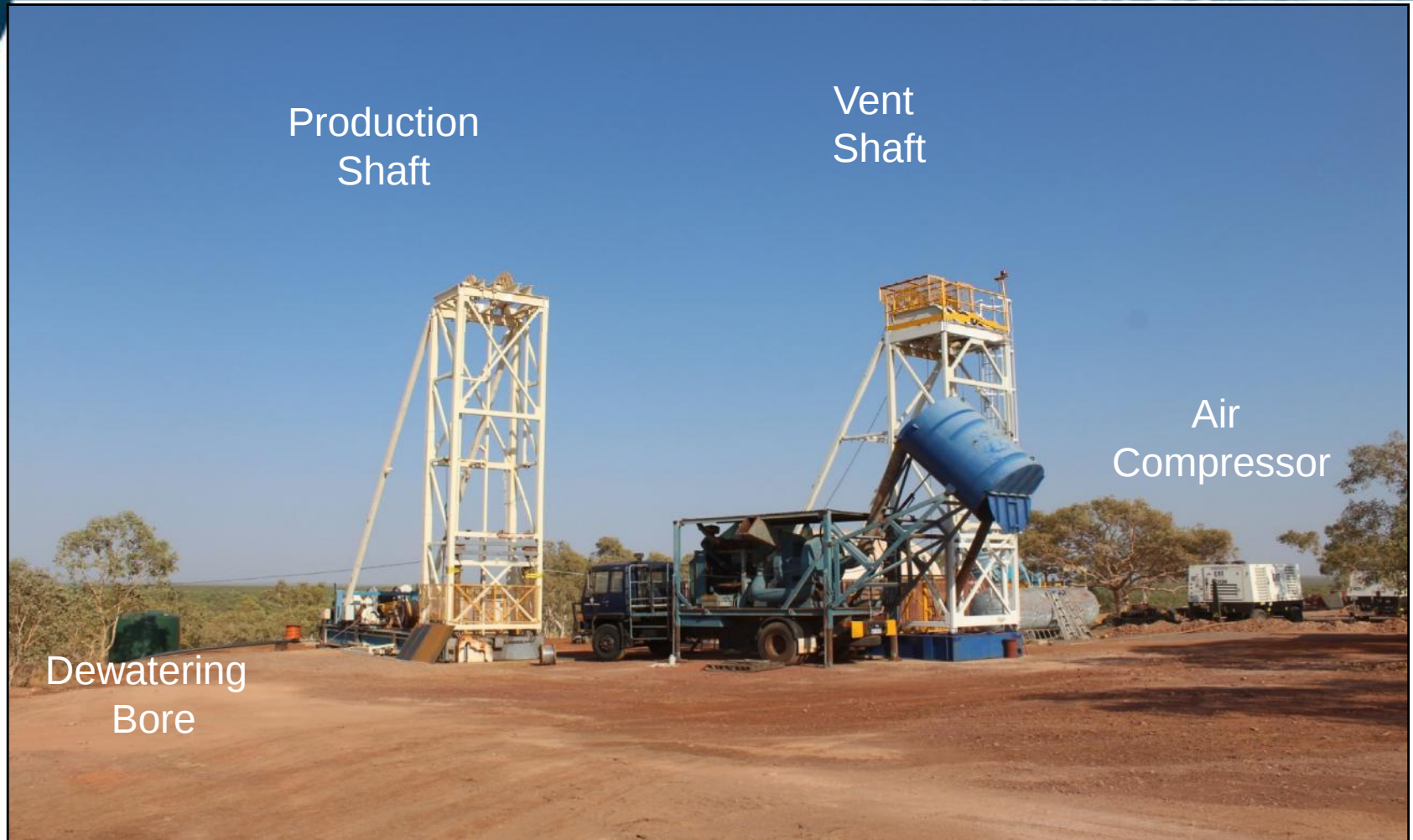
- Test the core/center of the **Susan Deeps Mag Model** and test for possible ironstone panel at depth
- **Secondary target:** Test if ironstone occurs at the tops of Models of 'Inkster 2000' (large ellipse model at depth) and 'BAdams 2009' (rectangle model)

Small Mines

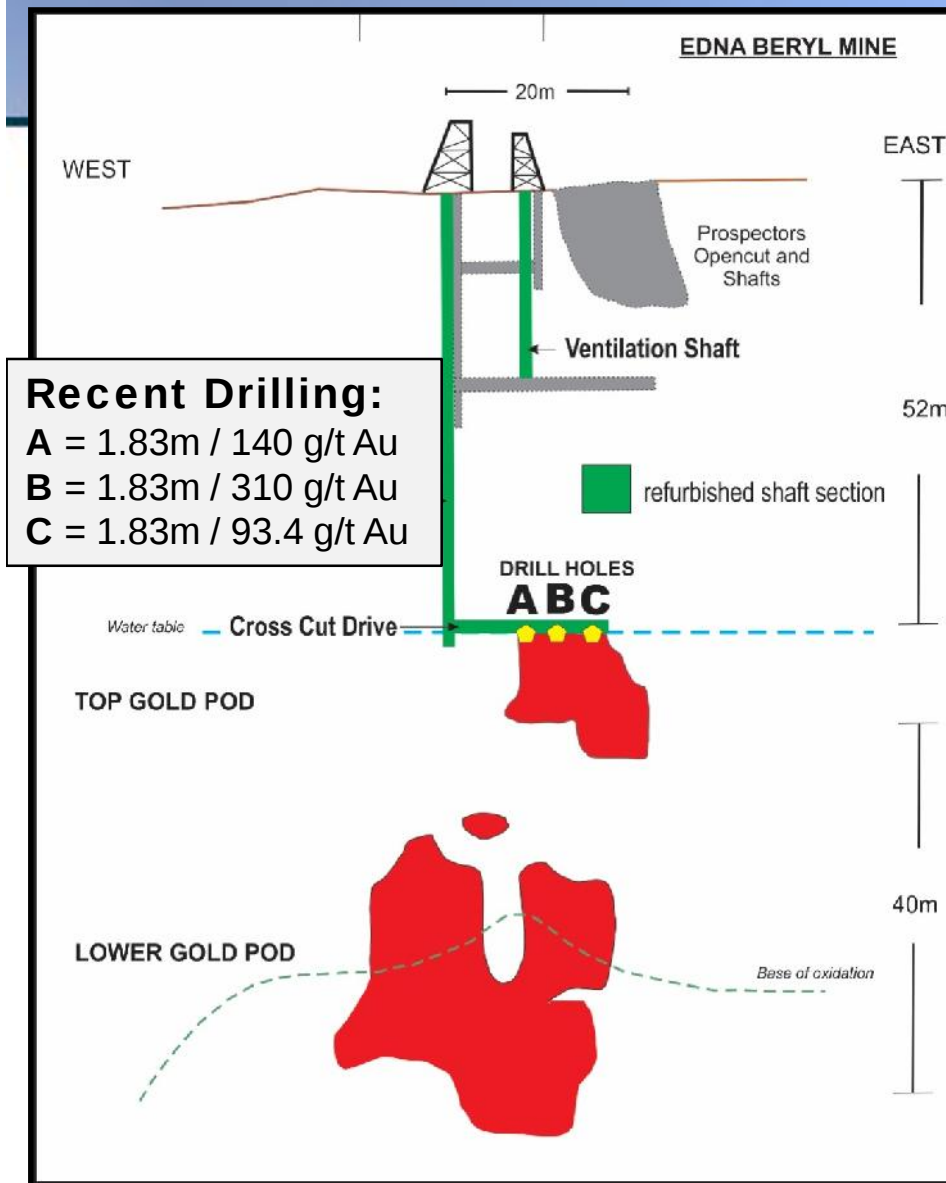
Risk free cash from high grade resources



Edna Beryl Development - the first “small mine”



Refurbishment



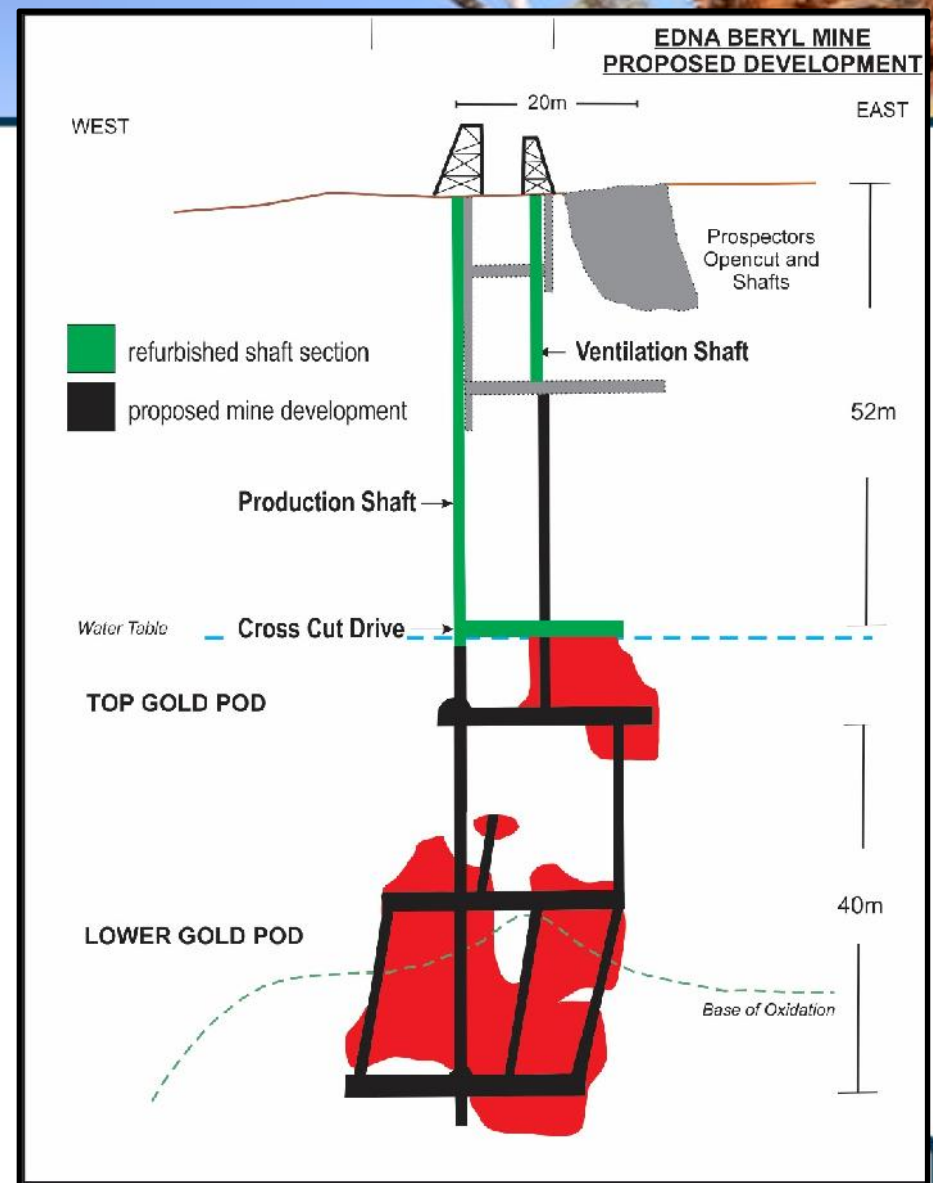
Recent Drilling:

A = 1.83m / 140 g/t Au

B = 1.83m / 310 g/t Au

C = 1.83m / 93.4 g/t Au

Development Plan



Summary and Conclusions



- Tennant Creek Exploration fully funded by Evolution Mining – have spent ~\$10m of the \$15m to earn 65% of the Tennant Project
- Next 8,000m drill program at Tennant Creek to commenced in September and will initially focus on the high grade Edna Beryl and Susan plus green fields projects (strategy 1)
- Small Mines to monetise existing high grade resources and expand near mine exploration (strategy 2)
- New technology and ideas continue to drive exploration in Tennant Creek (strategy 1)
- ERM remains well funded ~\$5.0m in cash plus potential for risk free cash from small mines
- Highly leveraged to success across all strategic horizons



The Emmerson Team



www.emmersonresources.com.au

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Competent Person Statements



The information in this report relating to Exploration Results is based on information compiled by Mr Steve Russell, who is a Member of the Australian Institute of Geoscientists and has sufficient exploration experience which is relevant to the style of mineralization 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'. Mr Russell is a full time employee of Emmerson Resources Ltd. Mr Russell consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in this report which relates to Mineral Resources is based upon information compiled by Mr Ian Glacken, who is a Fellow of the Australasian Institute of Mining and Metallurgy. Ian Glacken is an employee of Optiro Pty Ltd 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 of Exploration Results, Mineral Resources and Ore Reserves. Ian Glacken consents to the inclusion in the report of a summary based upon his information in the form and context in which it appears.

Gecko, Goanna & Orlando Mineral Resource: see details in ASX announcement "New High Grade Drill Results & Upgrade to Resource Inventory" released on 18 October 2013.

Chariot Mineral Resource: see details in ASX announcement "High Grade Chariot Gold Resource" released on 28 November 2013.

The information was first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported.

The gold equivalent calculation assumes a gold price of US\$1,363/oz for gold and US\$3.31/lb for copper and makes no allowance for metallurgical recoveries. The totals may not sum exactly due to rounding.