ASX ANNOUNCEMENT **28 October 2021**

MINING THE TERRITORY PRESENTATION

In accordance with our continuous disclosure obligations, enclosed is a copy of the presentation to be made today by Mr. Matt Healy, CEO of Greenvale Mining Limited, at the Mining the Territory Conference, being held in Darwin.

Authorised for Release
This announcement has been approved by the Managing Director for release.

Alan Boys
Company Secretary

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Greenvale MINING LIMITED

ASX: GRV

MINING THE TERRITORY

Georgina Basin IOCG Project

Mining The Territory Conference October 2021

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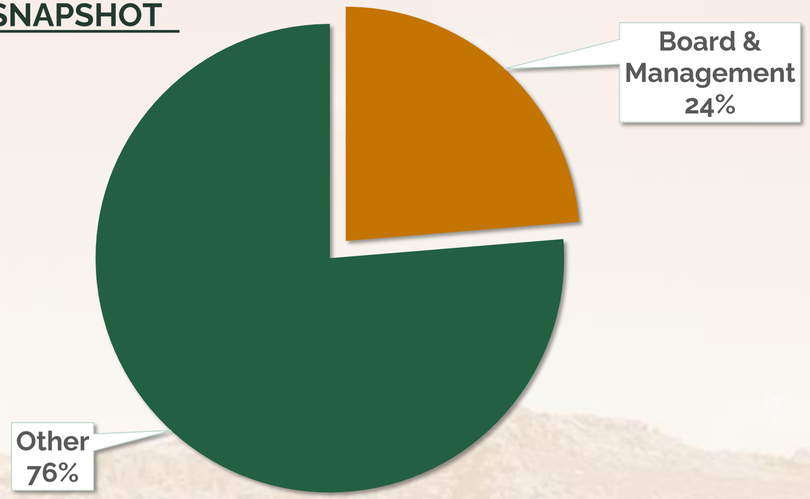
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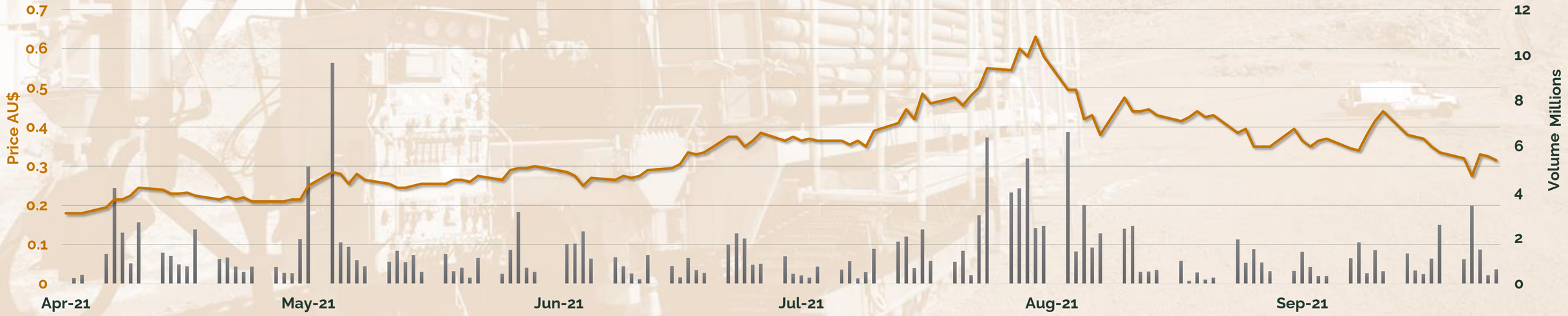
Corporate Summary

CAPITAL STRUCTURE		
Shares	M	397
Options	M	-
Share price (25 October 2021)	A$	$0.30
Market Capitalisation (25 October 2021)	A$	$120m
Cash & Investments	A$	$9.09m
Top 20 Shareholders	%	48%

SHAREHOLDER SNAPSHOT



SHARE PRICE



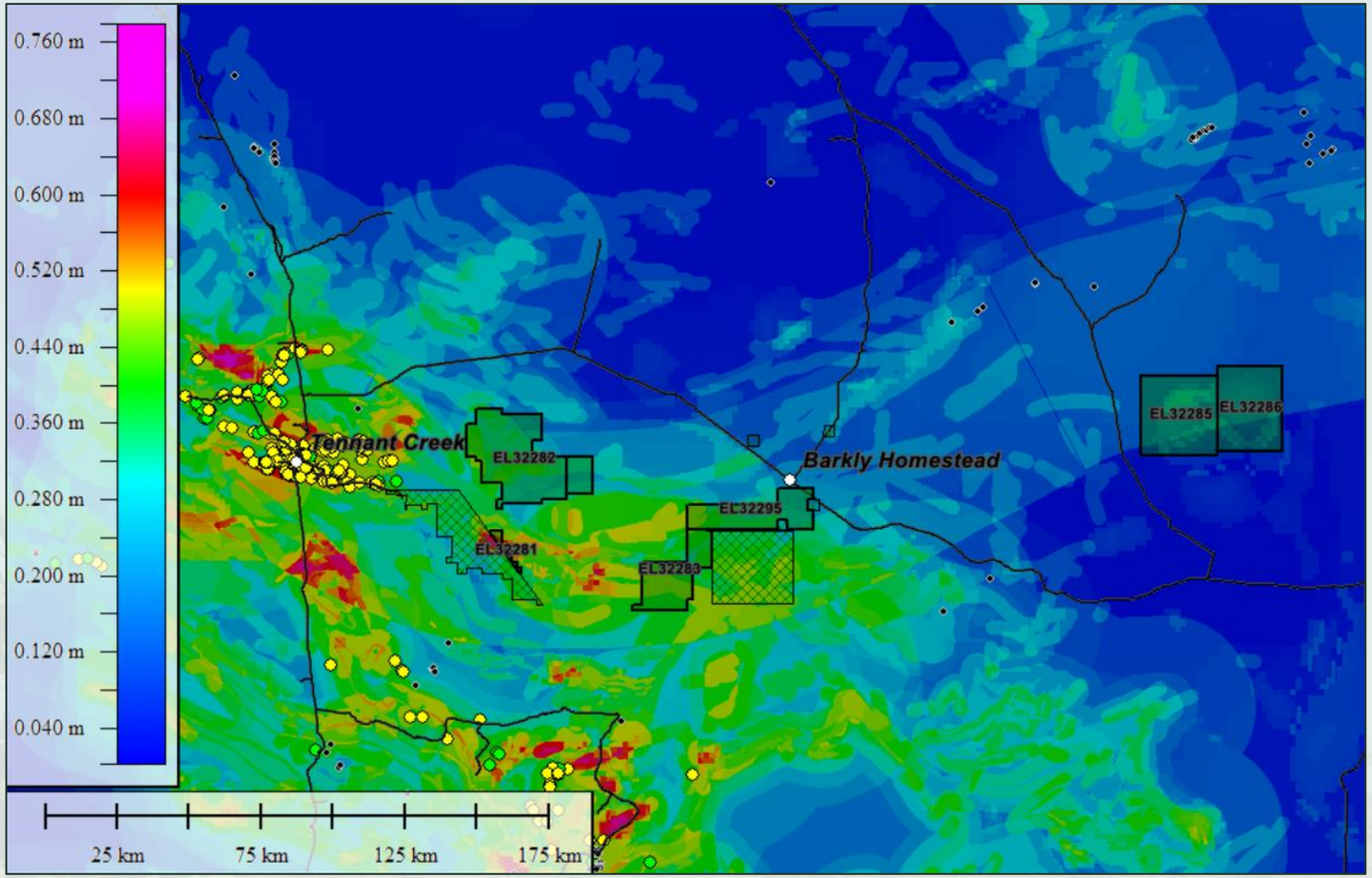
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Georgina Basin IOCG Project

INTRODUCTION

- Seven granted tenements
- Six under application
- Two competitive applications
- Total Area 4,523km²
- Substantial investment in geoscience in the Tennant East region through GA and NTGS collaborations
- Highly prospective for Iron-Oxide Cu-Au deposits

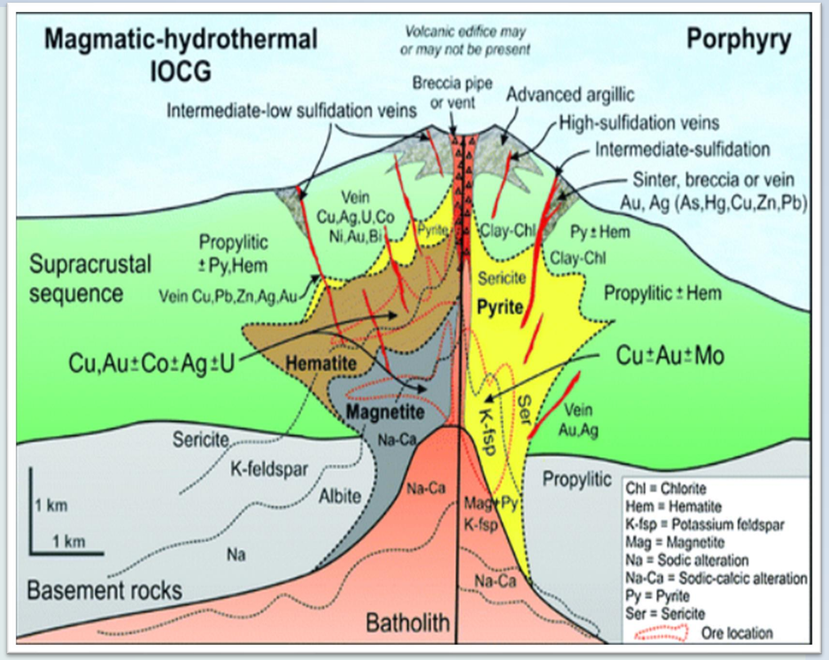


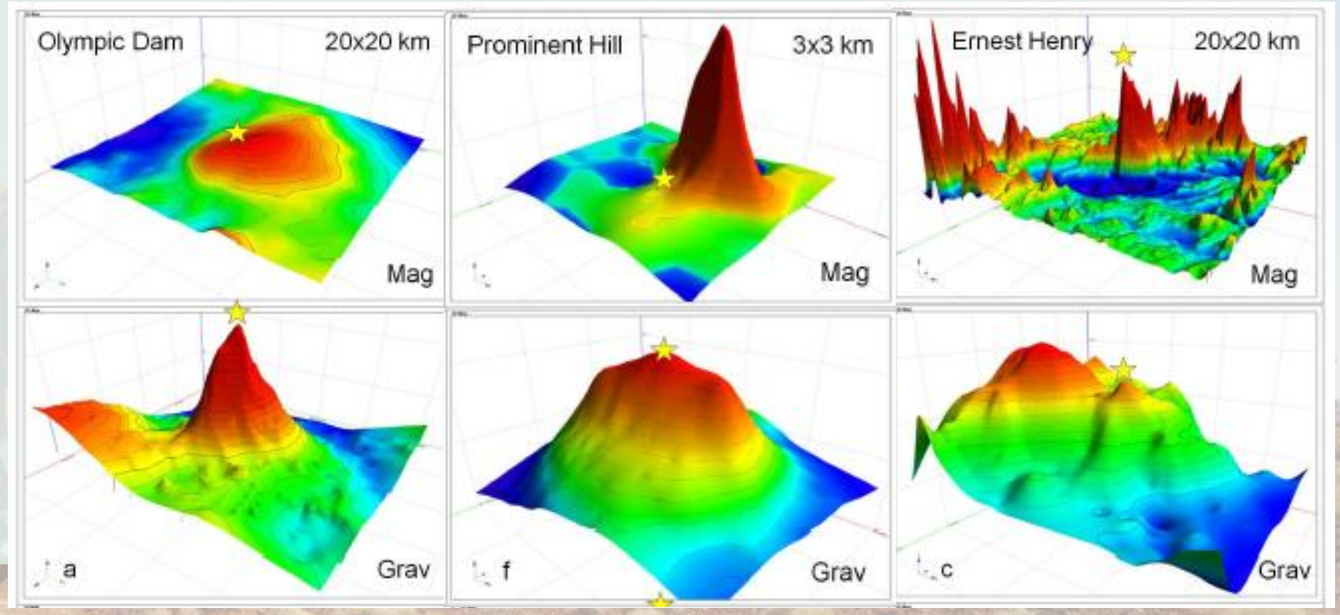
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Georgina Basin IOCG Project

IOCG Deposits

- Large economically attractive deposits, with some smaller high-grade variants
- Syn-to-post orogenic tectonic settings
- Temporal relationship with A-I type bimodal magmatism
- Pervasive and widespread hydrothermal alteration with introduction of K-Ca-Fe
- Elevated (10-60 wt%) magnetite/hematite iron oxide mineral association
- **Most deposits discovered using magnetic and gravity geophysical surveys**



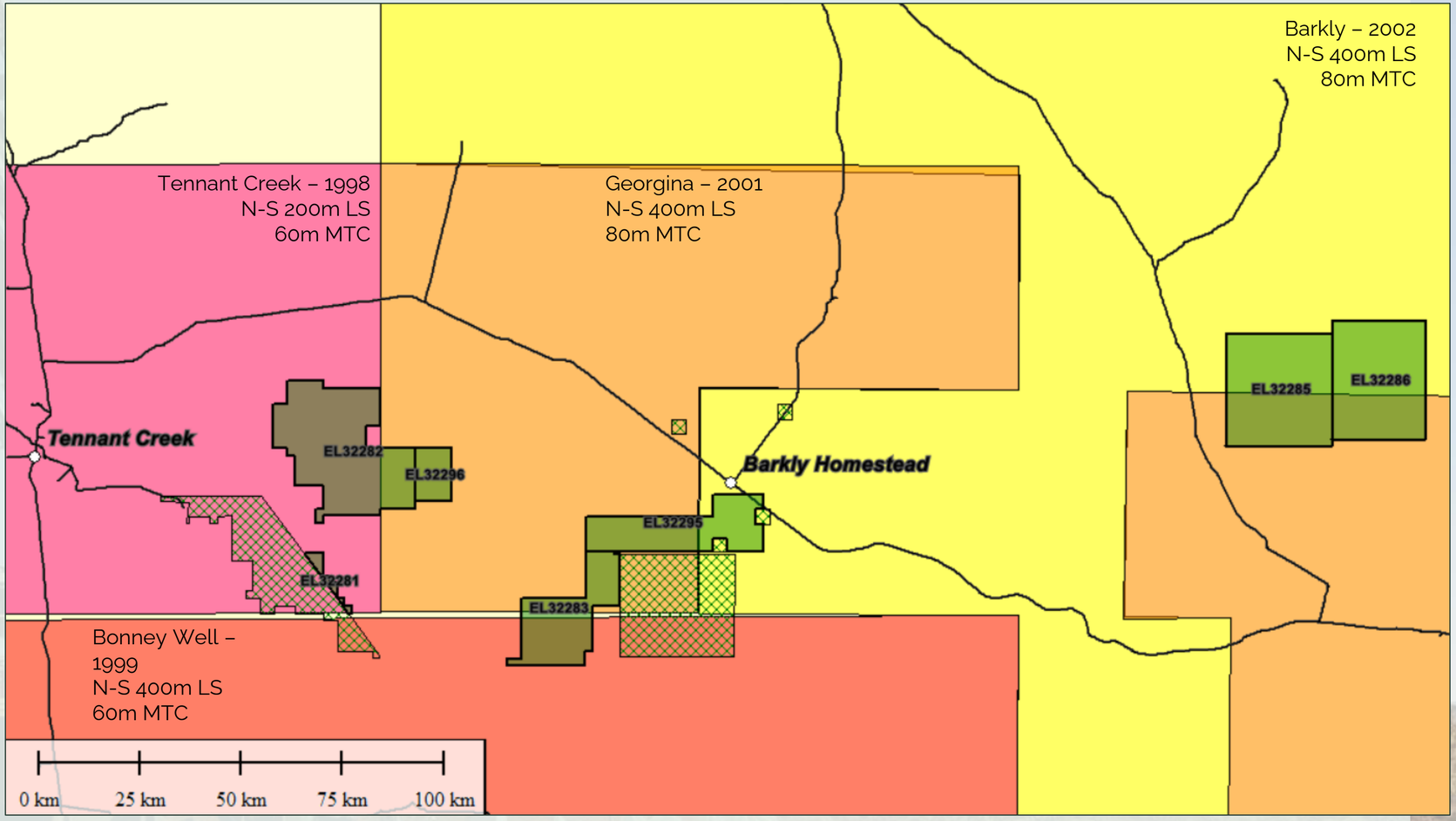


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Georgina Basin IOCG Project

NTGS AIRBORNE MAGNETIC SURVEY COVERAGE

- Full project coverage AMAGRAD survey data
- Mostly 400m line spacing, with 200m in the west of the Georgina Project area
- 60-80m Mean Terrain Clearance

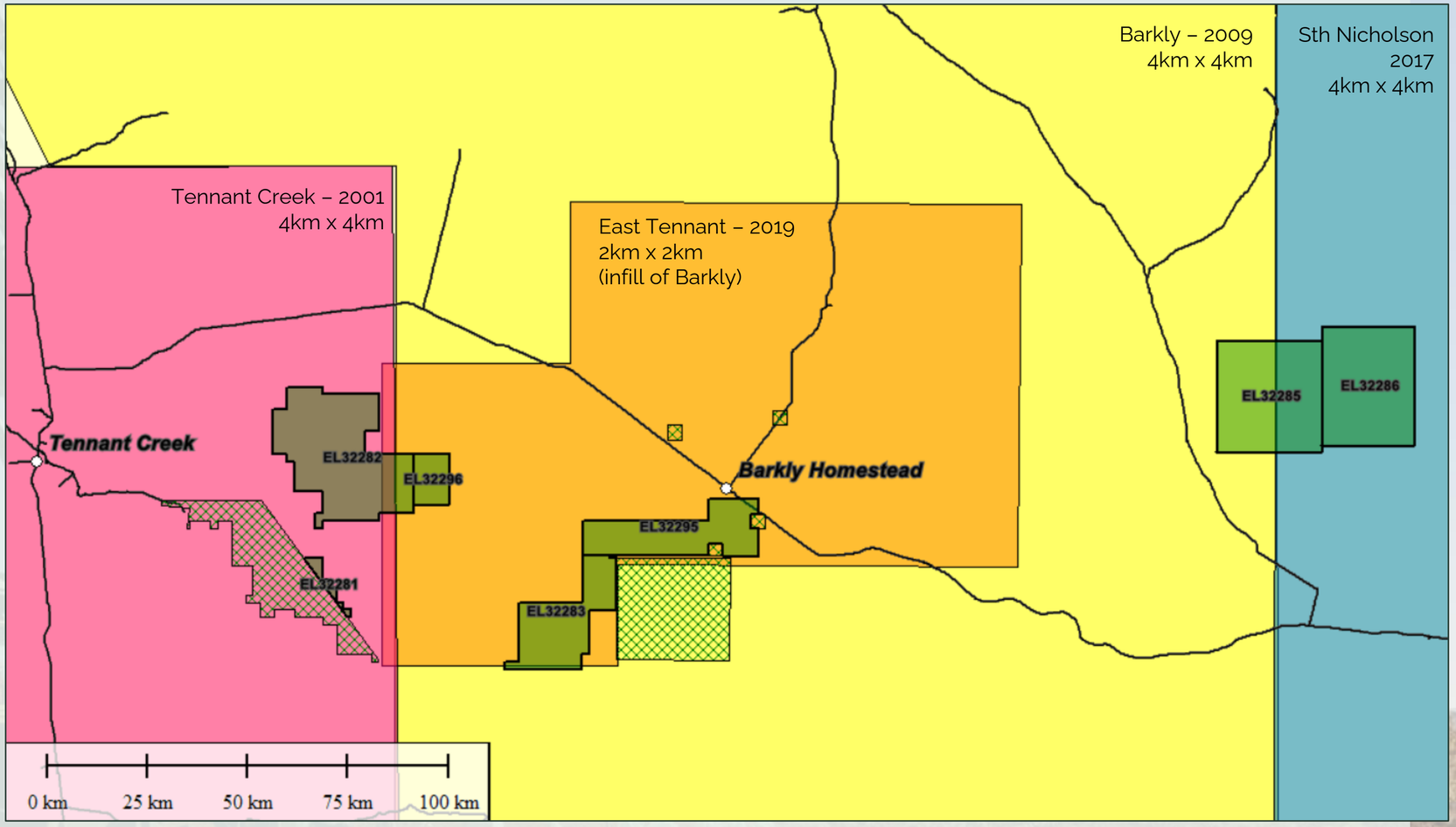


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Georgina Basin IOCG Project

NTGS GRAVITY SURVEY COVERAGE

- Full project gravity survey data coverage
- 4km x 4km station density
- 2km x 2km infill in recent East Tennant survey

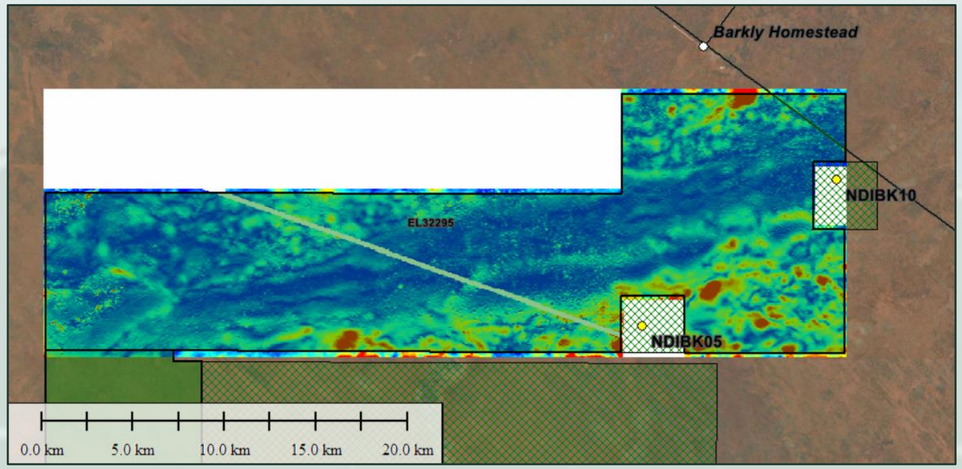


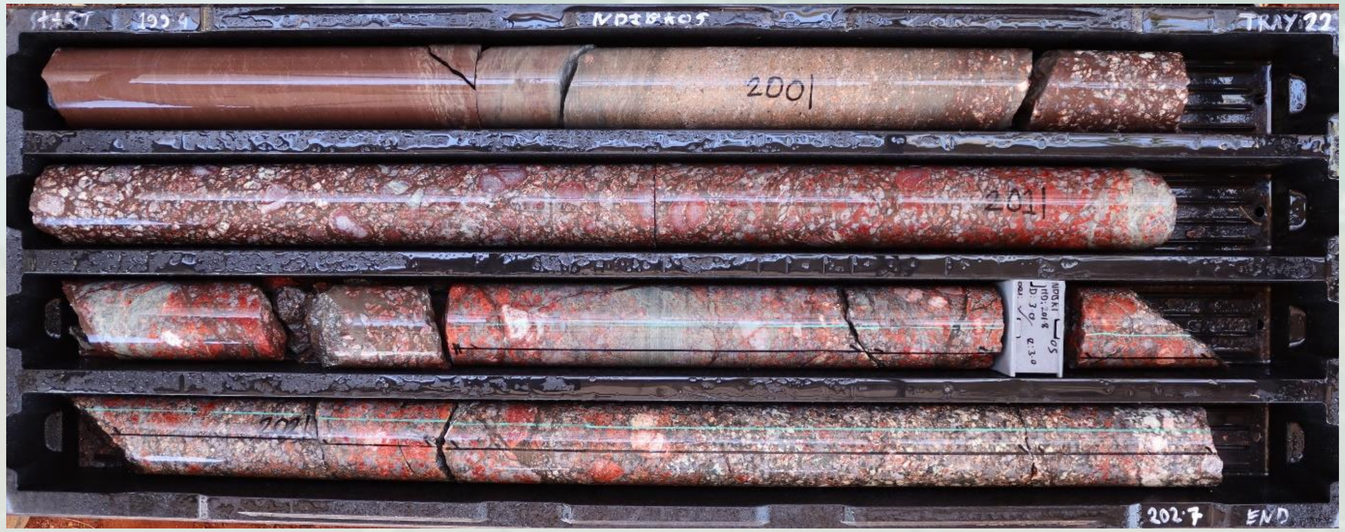
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Georgina Basin IOCG Project

INSIGHTS FROM THE NATIONAL DRILLING INITIATIVE

- NDIBK05 and NDIBK10, were completed to depths of 293.8m and 765.7m, respectively, adjacent to Greenvale's tenement – EL32295.
- NDIBK05&10 intersected broad zones of the Proterozoic Warramunga Formation
- Strong hematitic alteration was intersected in both holes
- NDIBK10 appeared to have trace sulphides present
- **NDI Drilling confirmed IOCG potential of the East Tennant region**





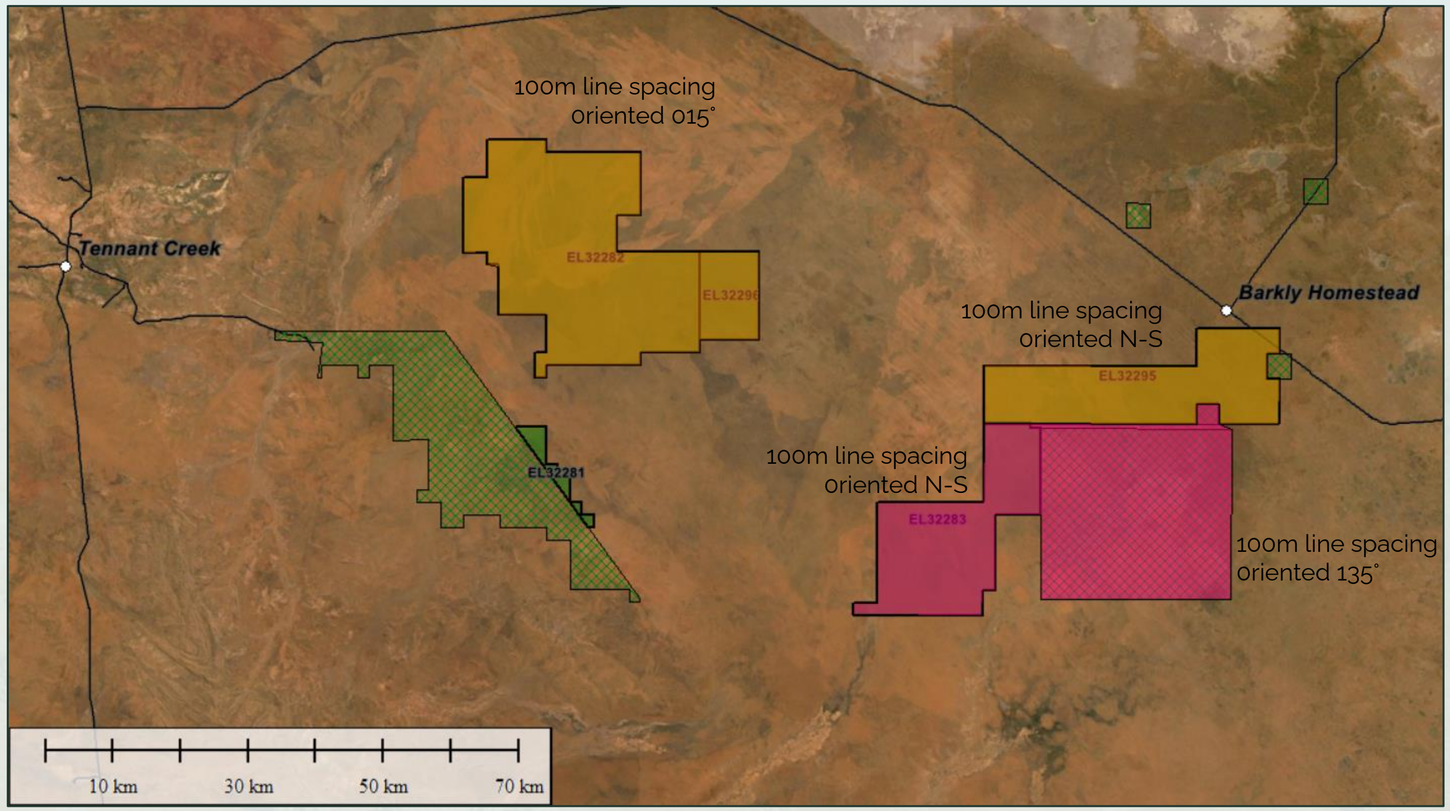
NDIBK05: (199.4m-202.7m) Altered, sheared unit. Looks granitic in composition. Brick red colour from hematite-potassic alteration. Lower contacts of the Georgina Basin with underlying granite shows strong hematite.

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Georgina Basin IOCG Project

GREENVALE MAGNETIC SURVEY COVERAGE

- Total of 27,879 line km of airborne magnetic survey flown
- 100m line-spacing and 30m sensor height
- 15,261 line km conducted over target areas identified from review of NTGS magnetics and gravity (Dec 2020)
- **12,618 line km co-funded through Resourcing the Territory grants**
- Data acquired by MagSpec and processed by Resource Potentials

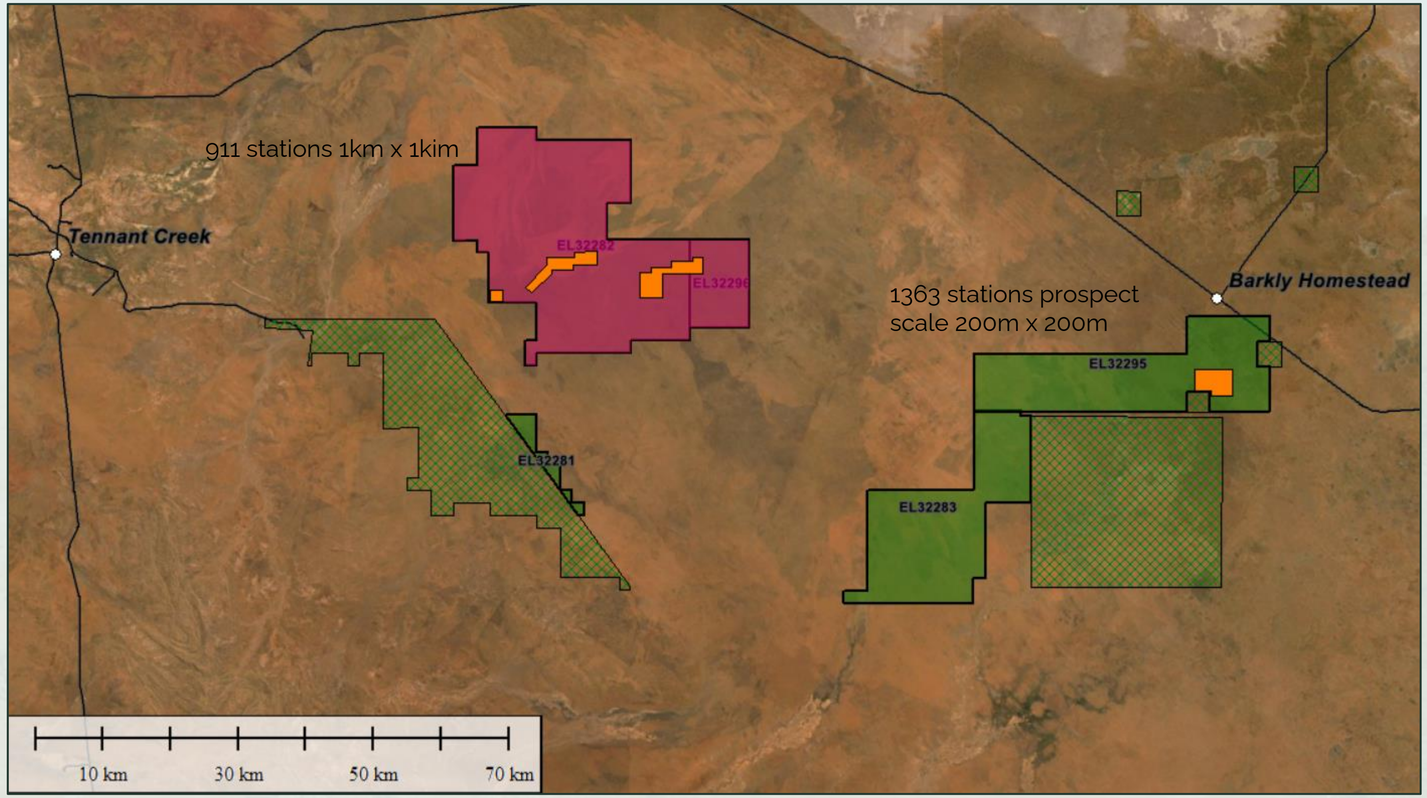


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GREENVALE GRAVITY SURVEY COVERAGE

- Total of 2,274 gravity station measurements
- **911 stations co-funded through Resourcing the Territory exploration grants**
- 1,363 stations at prospect scale 200m x 200m to refine responses over areas of interest.
- Data awaited for easternmost block
- Data acquired by Atlas Geophysics and processed by Resource Potentials

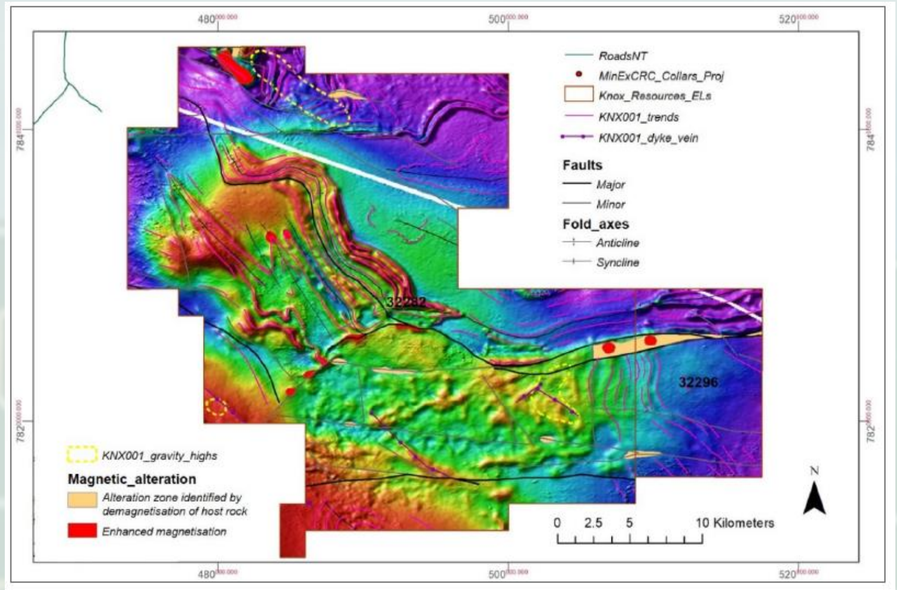


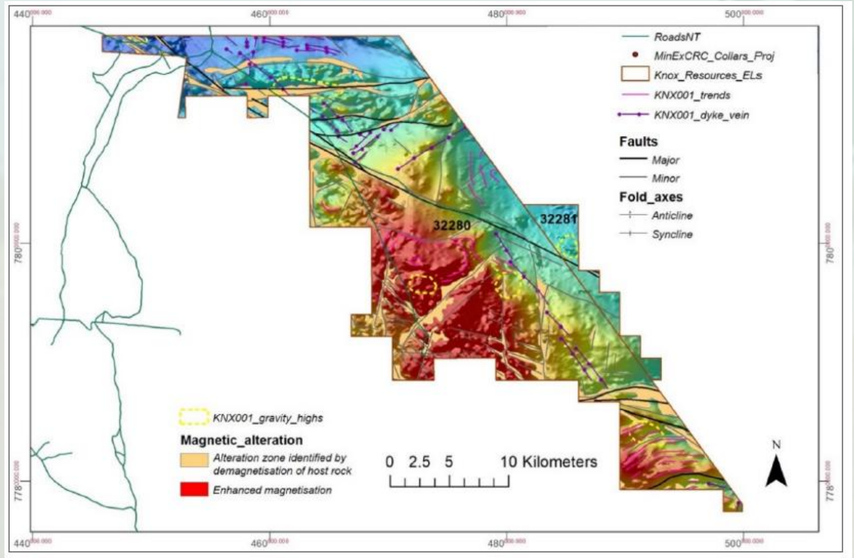
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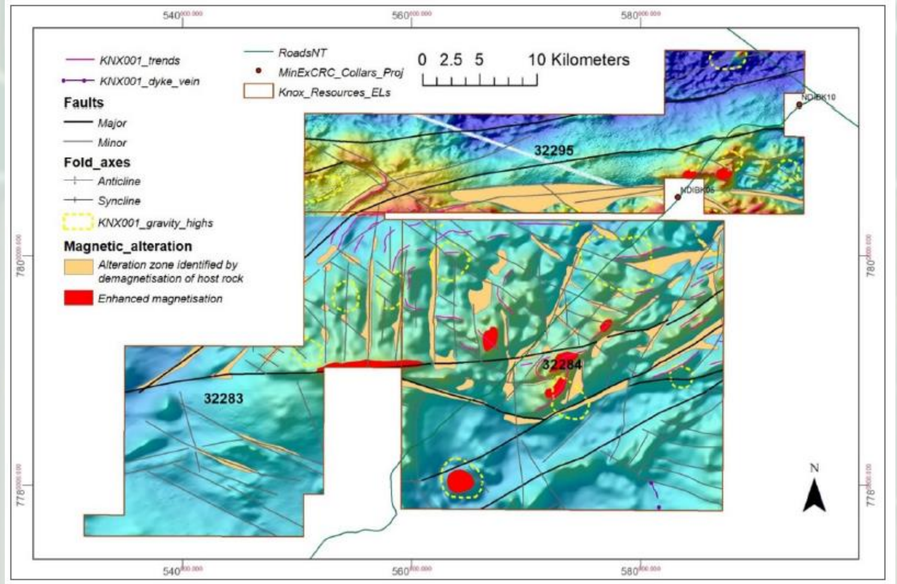
Georgina Basin IOCG Project

TARGET GENERATION

- Interpretation of regional and GRV magnetic and gravity data (SRK Consulting)
- IOCG Mineral Potential Mapping – TISA (Skirrow et al., 2019, GA)
- Magnetite and Hematite Alteration Proxies (Goodwin and Skirrow, 2019, GA)
- Solid Geology Interpretation Stewart et al., 2020, GA)
- Previous Exploration





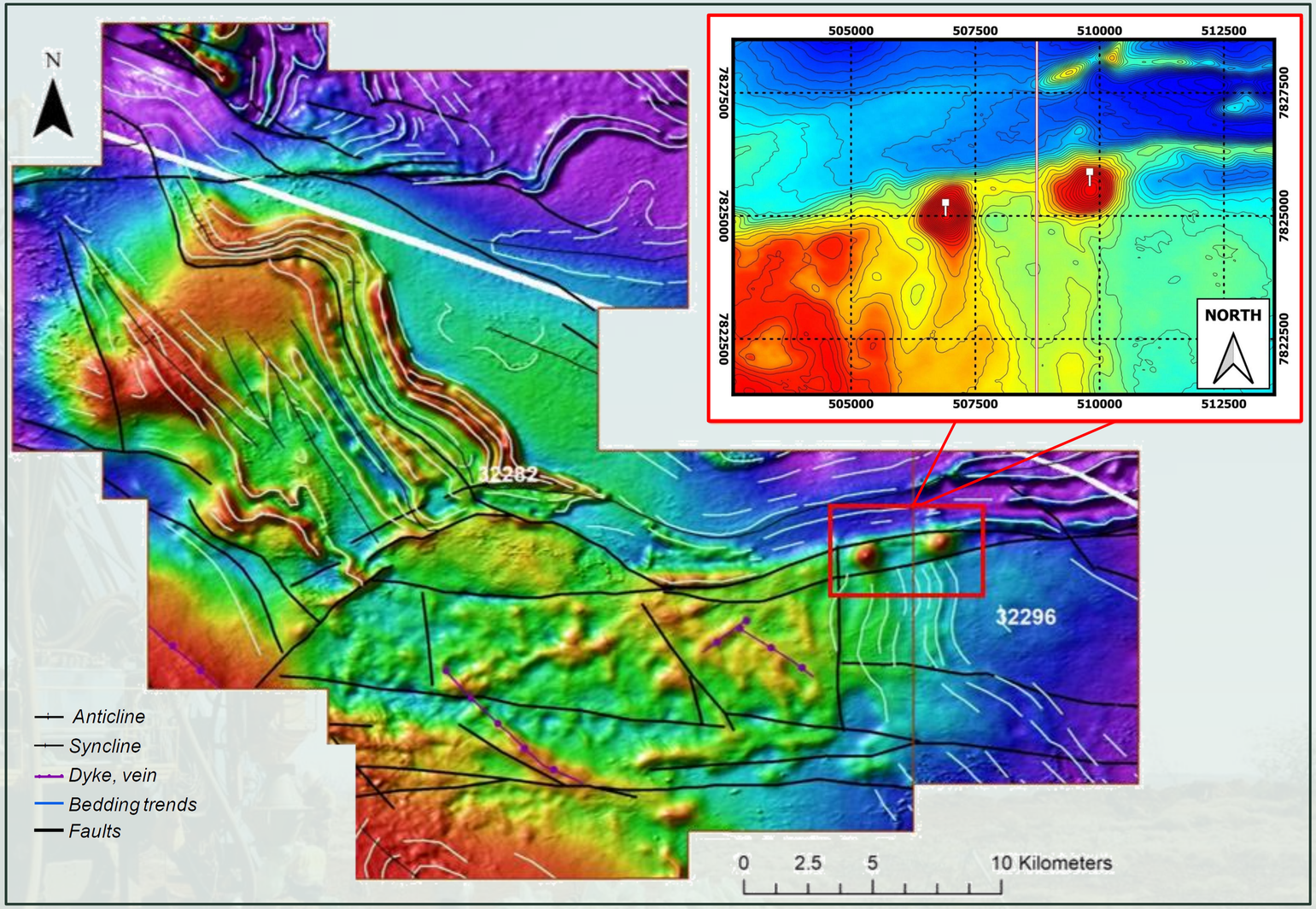


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TWIN PEAKS PROSPECT

- **Two prominent 50 and 40 nT magnetic anomalies**
- Within a zone of magnetite destructive hematite alteration
- Bounded by interpreted regional faults



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Georgina Basin IOCG Project

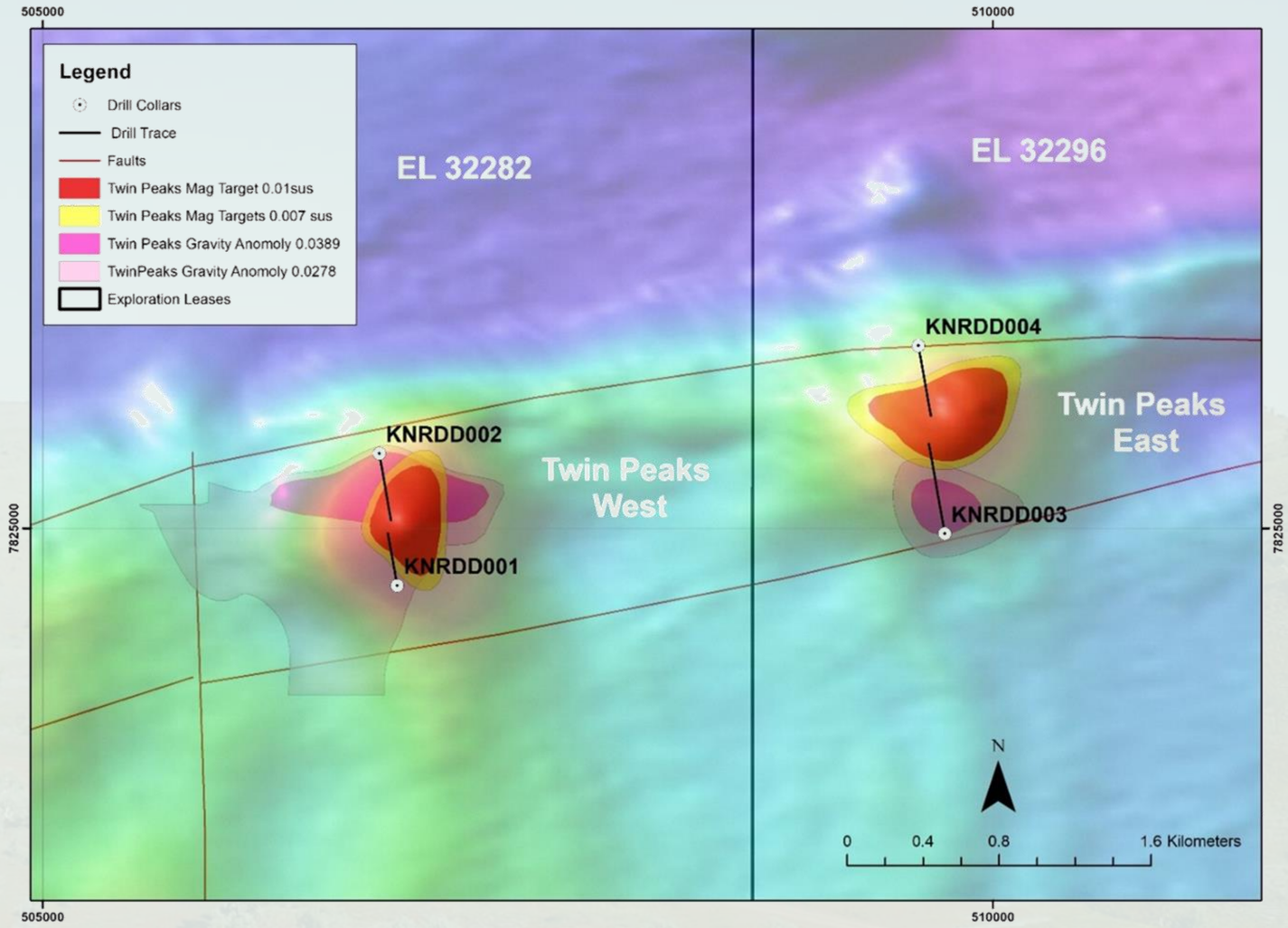
TWIN PEAKS PROSPECT

- **Spatially associated 0.2 and 0.1 mgal gravity anomalies**

- Coincident or partially offset gravity anomalies associated with previously identified magnetic targets.

- IOCG deposits in the Gawler Craton (e.g., Prominent Hill, Olympic Dam) magnetic and gravity anomalies are non-coincident.

- IOCG deposits such as Ernest Henry in the Cloncurry region magnetic and gravity responses occur together.

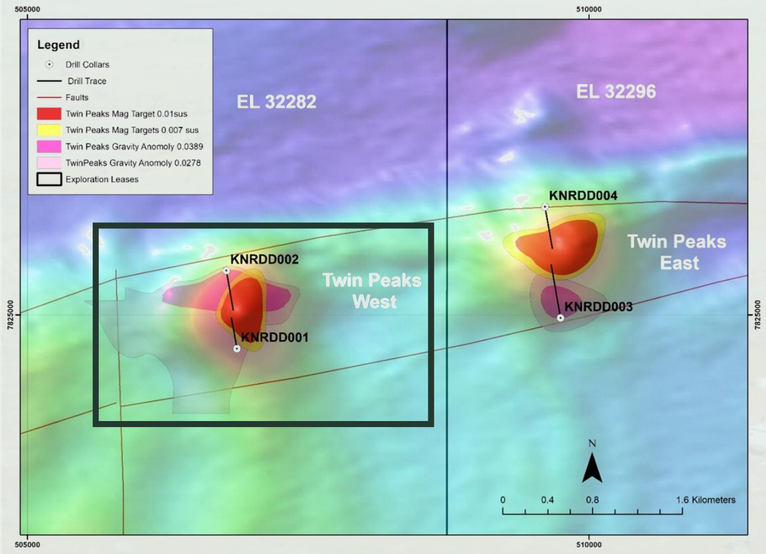


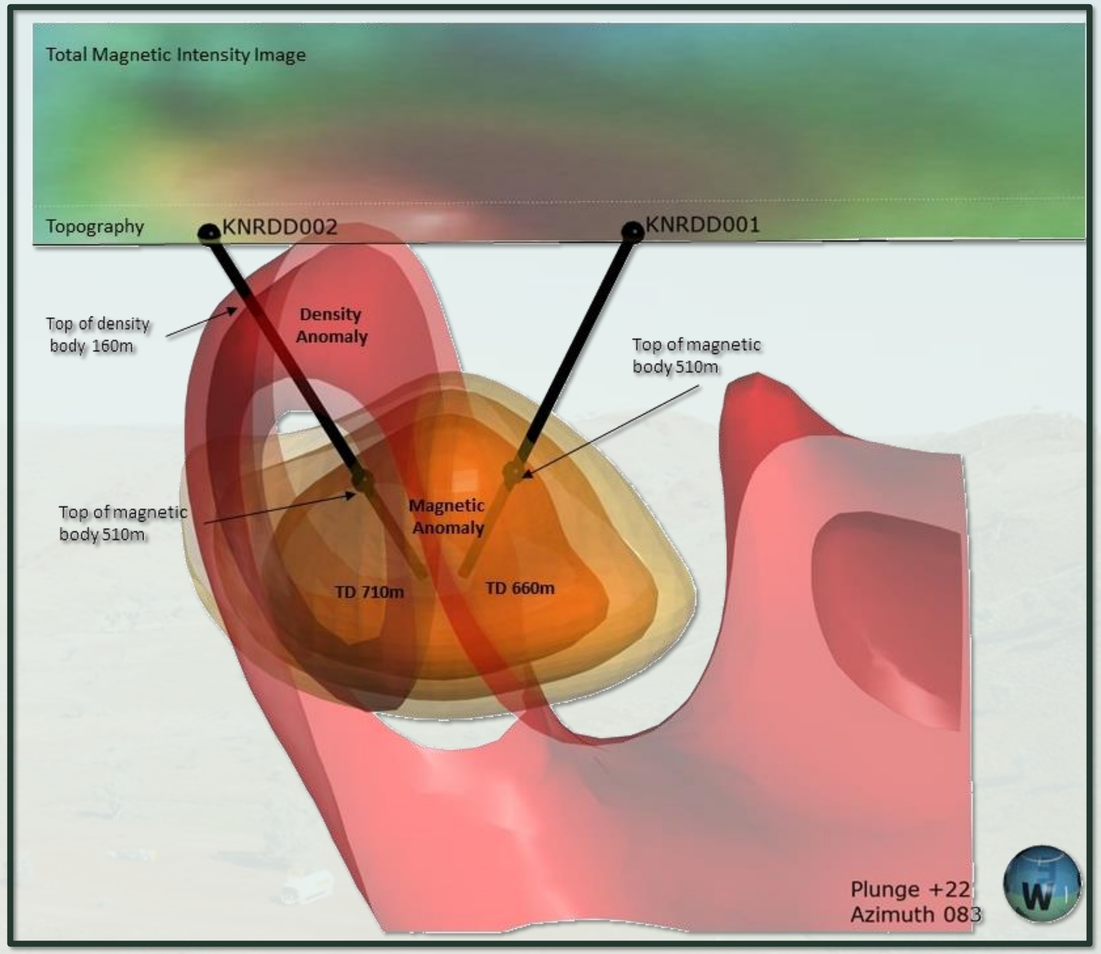
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WESTERN MAGNETIC ANOMALY

Western magnetic anomaly is partially associated with an East-West orientated gravity anomaly and has a depth to the top of the modelled magnetic anomaly of approximately 510m



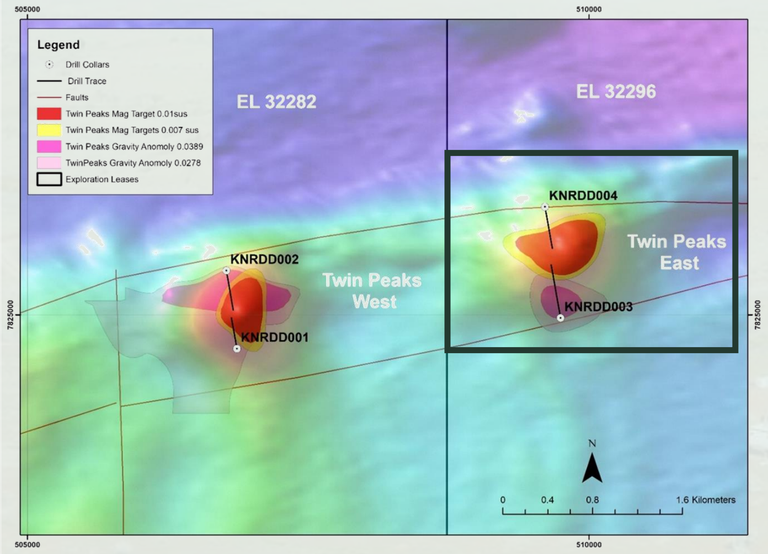


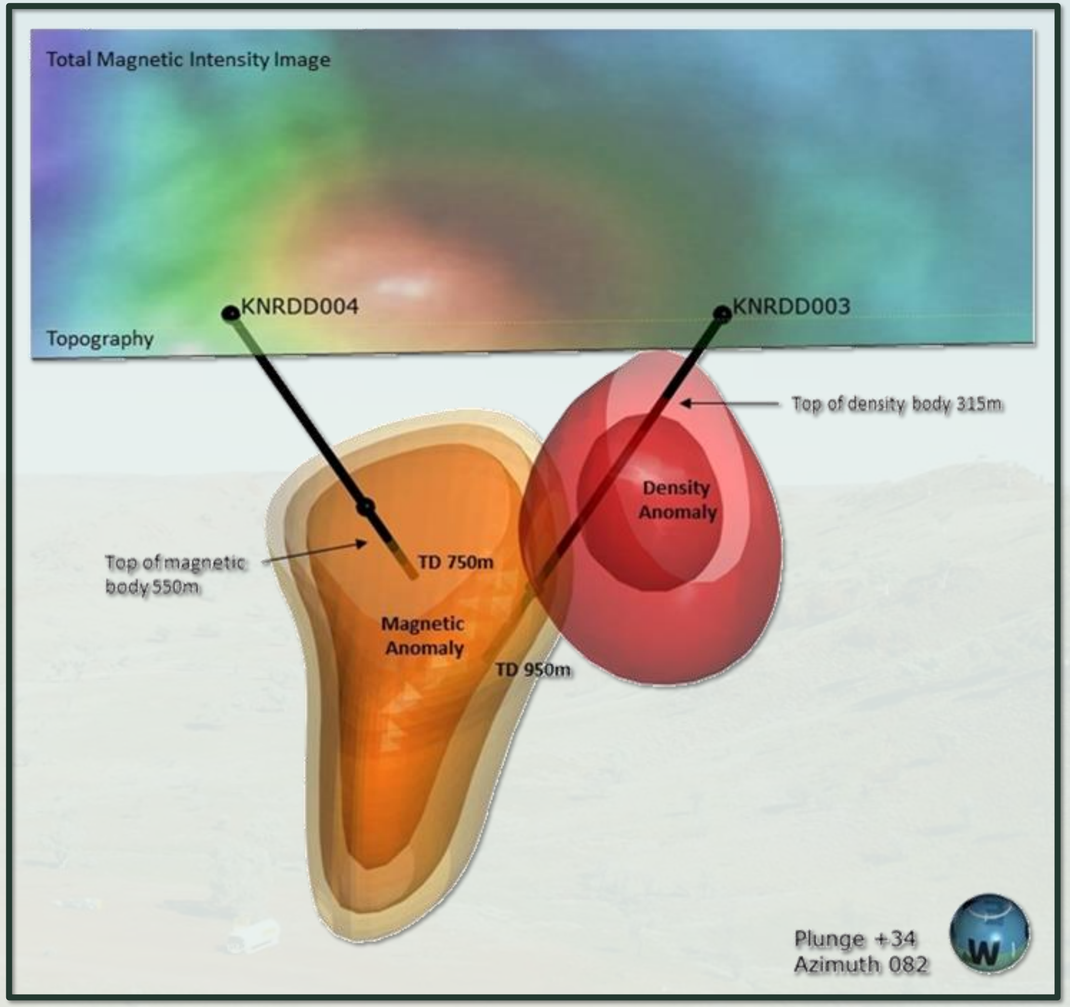
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EASTERN MAGNETIC ANOMALY

The Eastern magnetic anomaly is associated with an offset gravity anomaly. The depth to the top of the Eastern magnetic body resolved by the unconstrained magnetic inversion is approximately 550m below surface.





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INITIAL DRILL PROGRAM

- **“Twin Peaks”** magnetic anomalies are a strategic priority.
- Series of **four diamond core-holes** to be drilled across the Western and Eastern targets.
- The holes will be drilled at an angle designed to **crosscut the magnetic anomalies and the coincidental gravity anomalies**
- Target depth of between **450m and 600m per hole**.
- The proposed total meterage of the preliminary drilling campaign is around **3,000m**
- **On-ground works advanced** with establishment of access and water bore
- Drill rig due to mobilise to site next week

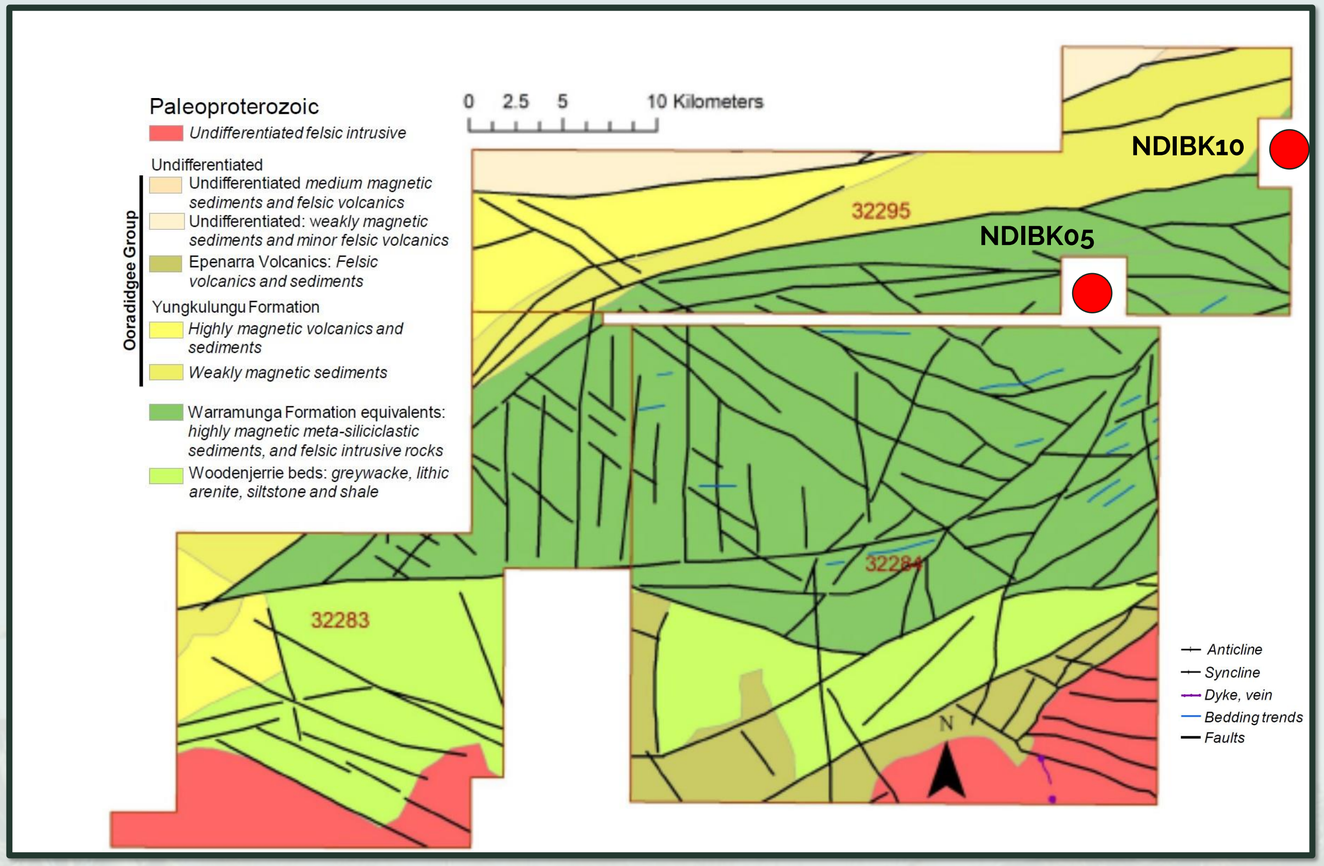


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Georgina Basin IOCG Project

CENTRAL TENEMENT GROUP – INTERPRETED GEOLOGY

- Large block of interpreted **Warramunga Formation** adjacent to and overlying felsic intrusives
- Ample structure to support **IOCG plumbing system**
- Large scale **hematite alteration** identified in NDI drill program

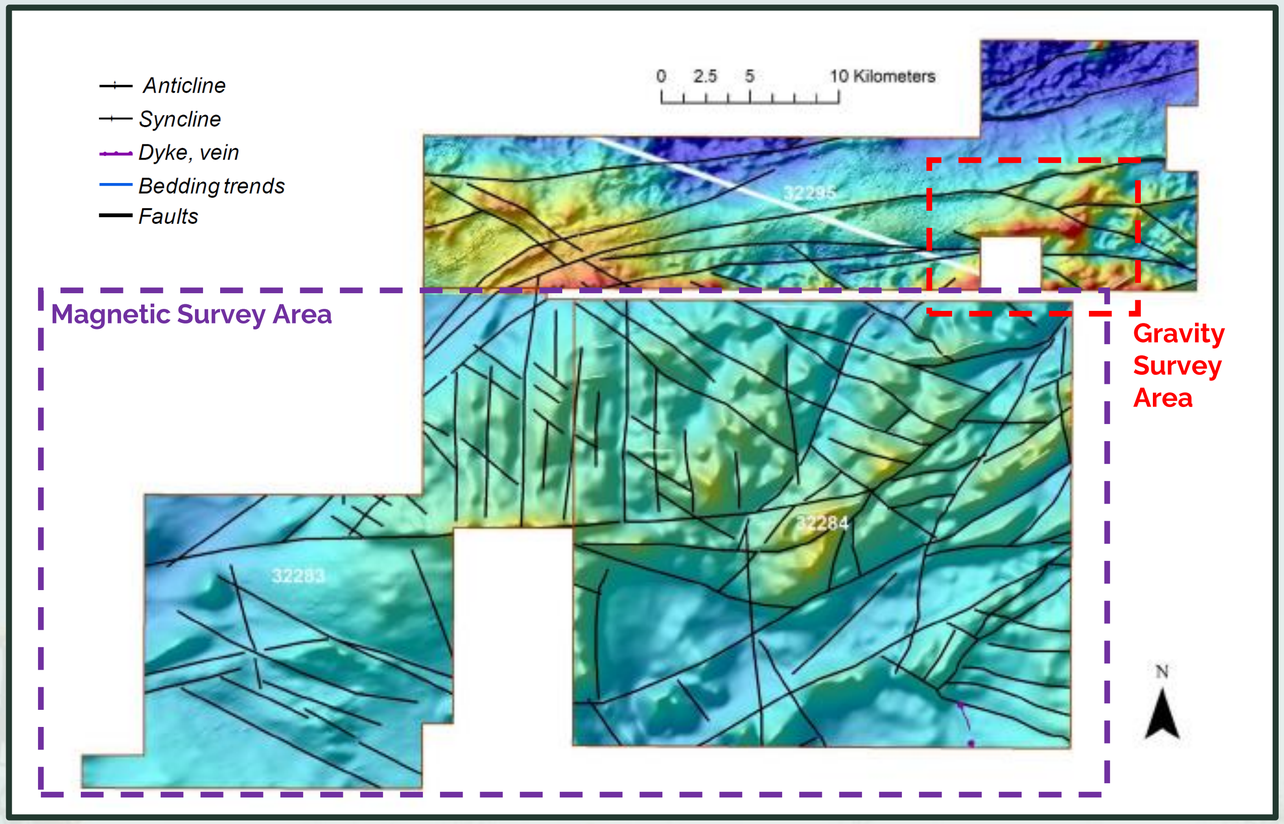


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CENTRAL TENEMENT GROUP – GEOPHYSICAL SURVEYING

- Several emerging targets identified in Central Tenements
- Magnetic high anomalies and structural complexity
- Follow-up high-resolution airborne magnetics at 100m line spacing – **awaiting final data**
- Ground gravity surveying completed over prospective magnetic highs



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Georgina Basin IOCG Project

SUMMARY

- Substantial tenement holding in prospective East Tennant region
- Target Generation underpinned by excellent regional geophysical survey data and high-quality geoscientific work conducted by NTGS and GA
- NTGS collaborative grant funding supported two Greenvale geophysical surveys in 2021
- Initial surveys successful in identification of Twin Peaks anomalies
- Further gravity and magnetic surveying completed
- On-ground works advanced
- Drilling to commence shortly



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Thank You

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