



OBSERVATIONS FROM THE FIRST
PASS EXPLORATION DRILLING AT
THE JESSICA AND CARRARA
PROJECTS AND IMPLICATIONS FOR
17GA-SN1

AGES 2024
16th April 2024

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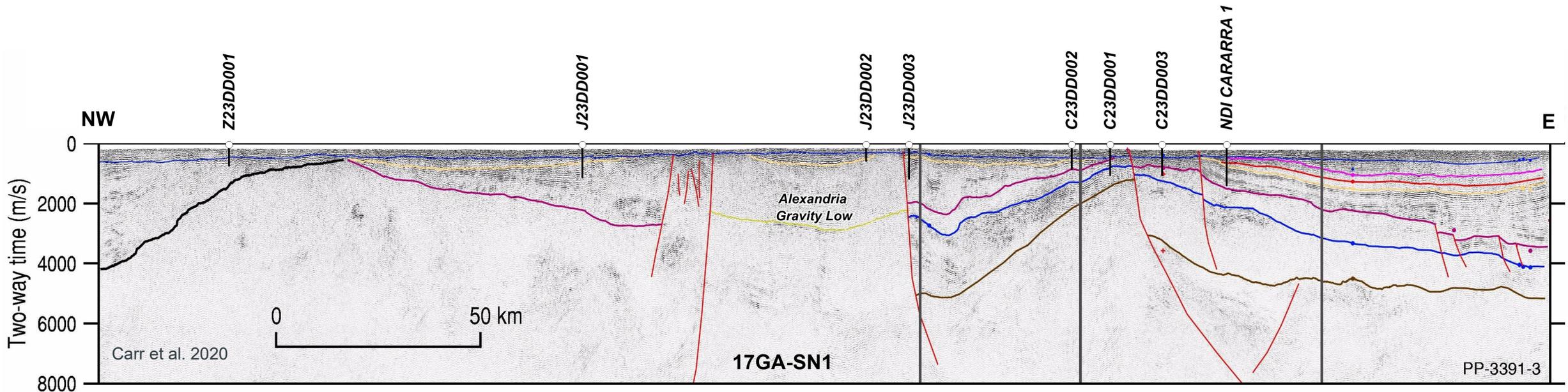
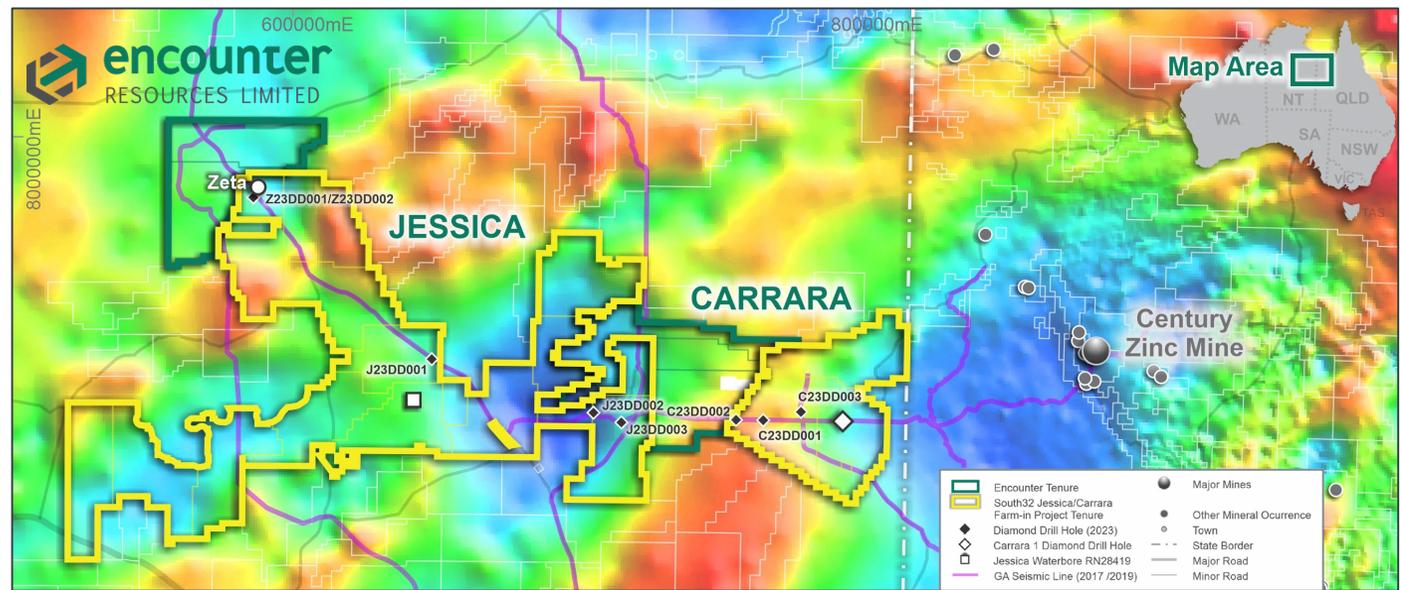
17GA- SN1 - Updated Interpretation and Prospectivity

2023 DRILLING

Jessica & Carrara
 Explored under farm-in agreements with
 Encounter Resources Limited (ASX:ENR)

8 x Holes - 7205m

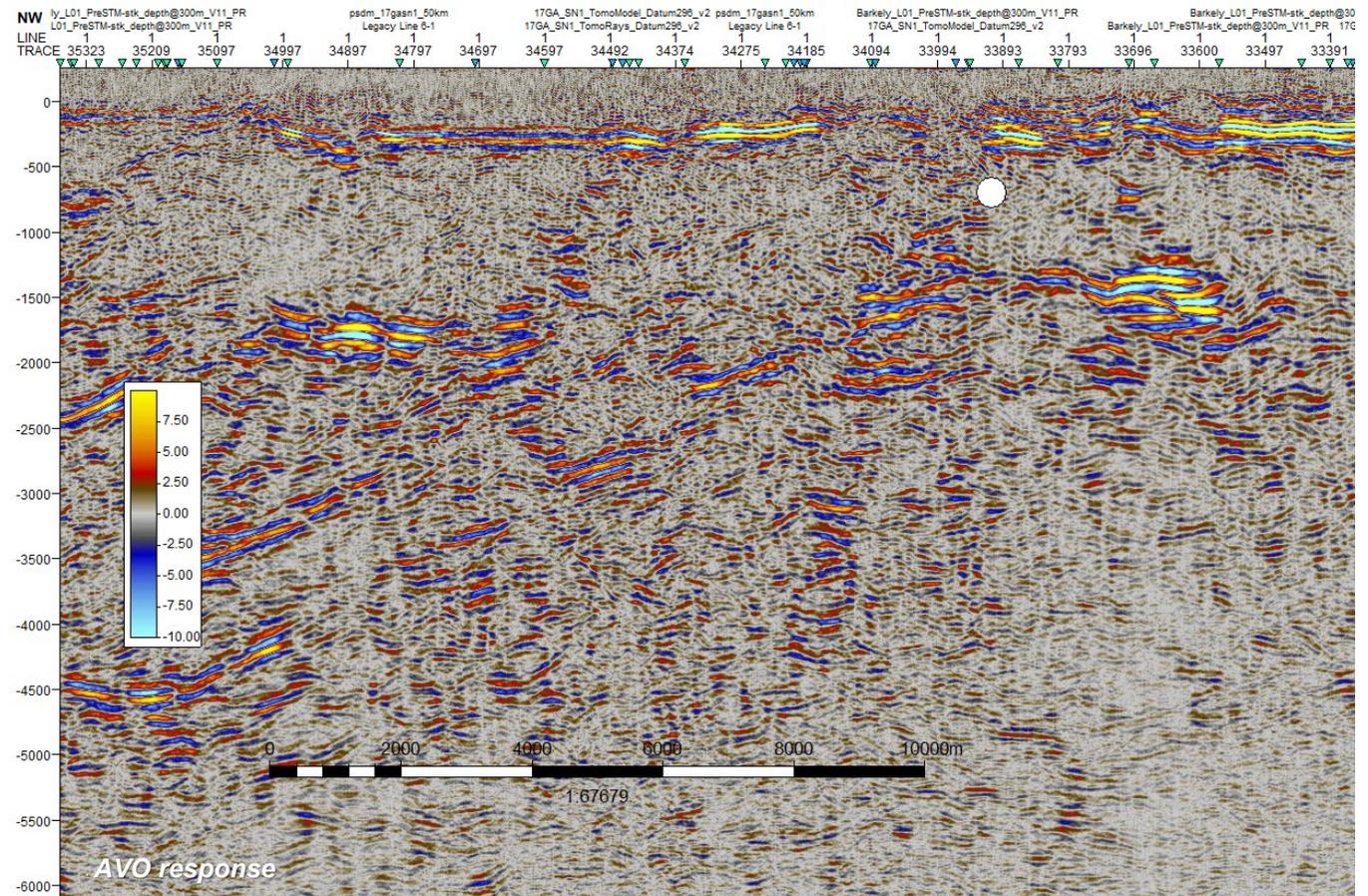
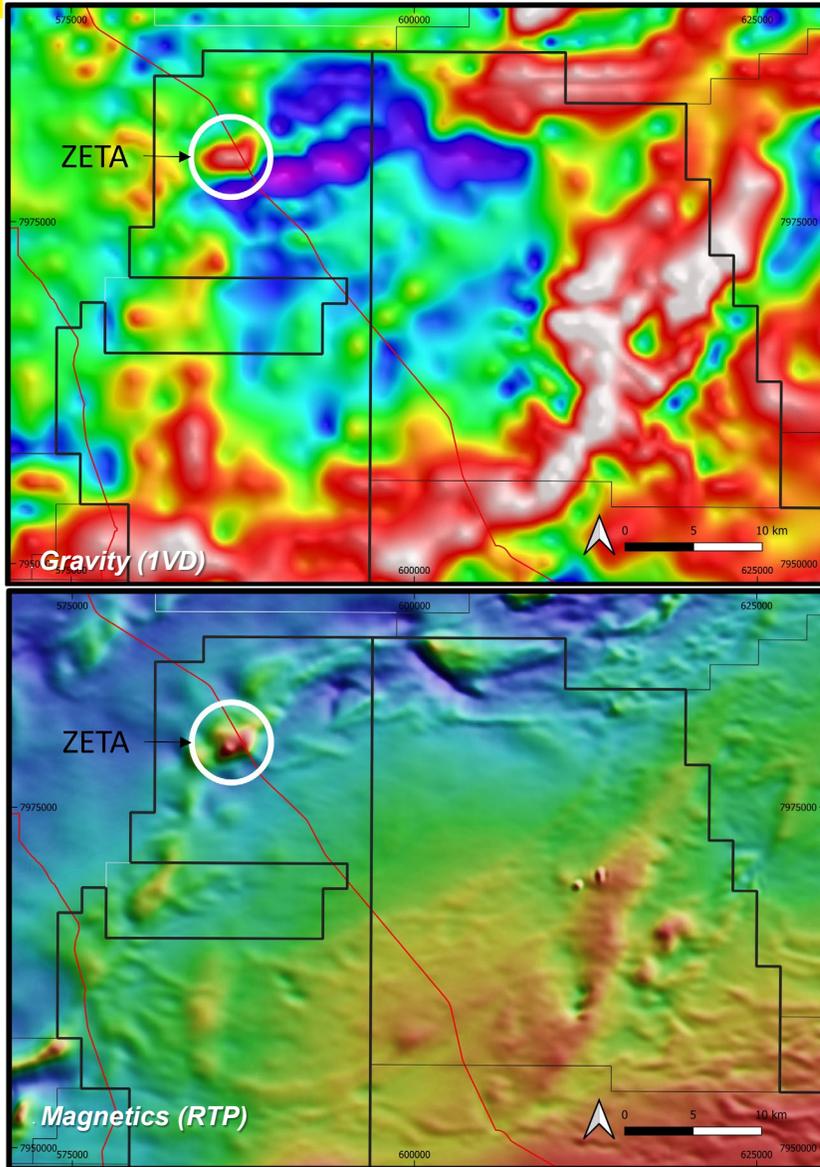
Test of various stratigraphic, geophysical
 and structural positions on 17GA-SN1



- Base Georgina Basin
- Base South Nicholson Basin
- Pre Tawallah
- Base felsic intrusion
- Base Mullera Formation
- Base Isa Superbasin
- Top basement/Base Leichhardt Superbasin
- Unnamed fault
- Base Constance Sandstone
- Base Calvert Superbasin

ZETA TARGET - BACKGROUND

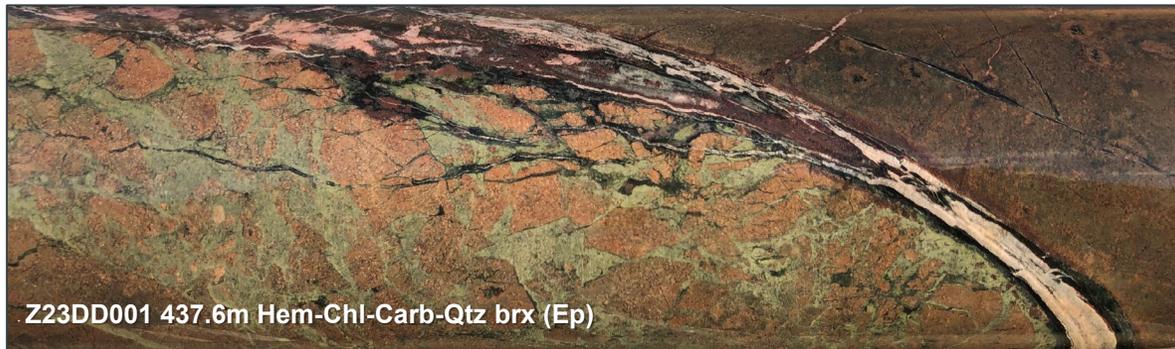
- Coincident regional ~6500nT magnetic and 2.4 mGal gravity anomaly
- High velocity reflectors/AVO anomalies present
- Test IOCG potential & Identify Basement Lithology
–Tomkinson Creek/Tawallah/Murphy/Other (?)



ZETA TARGET - EARLY OBSERVATIONS

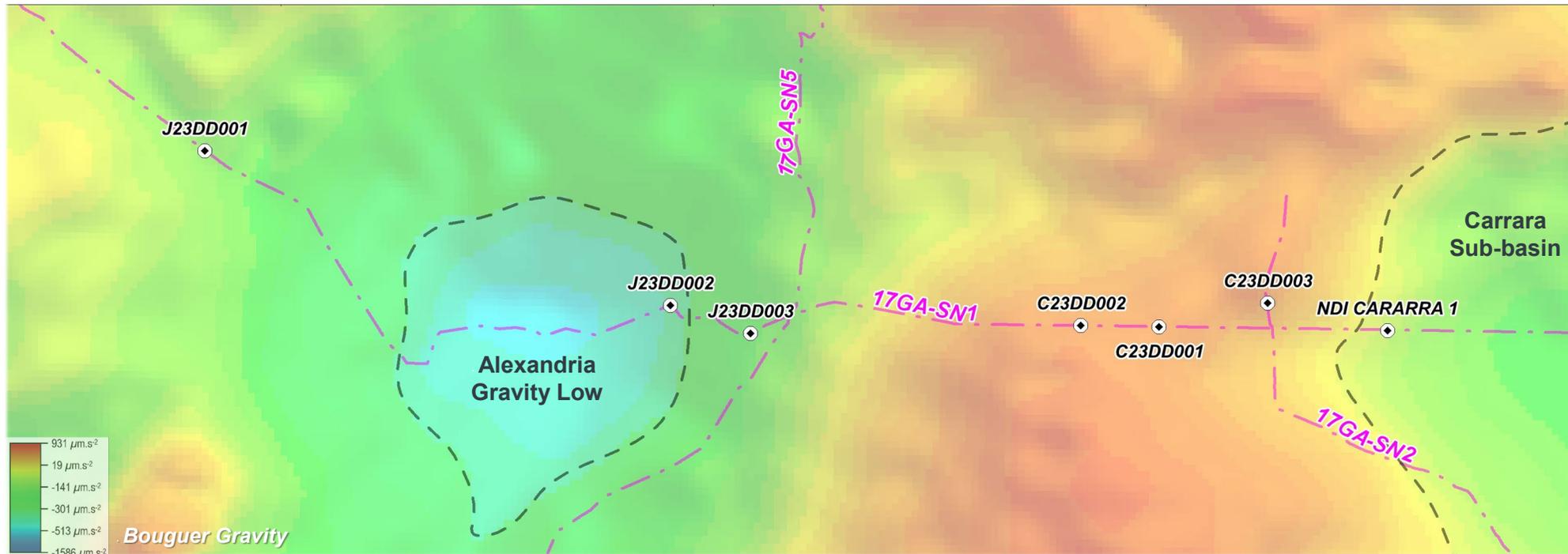
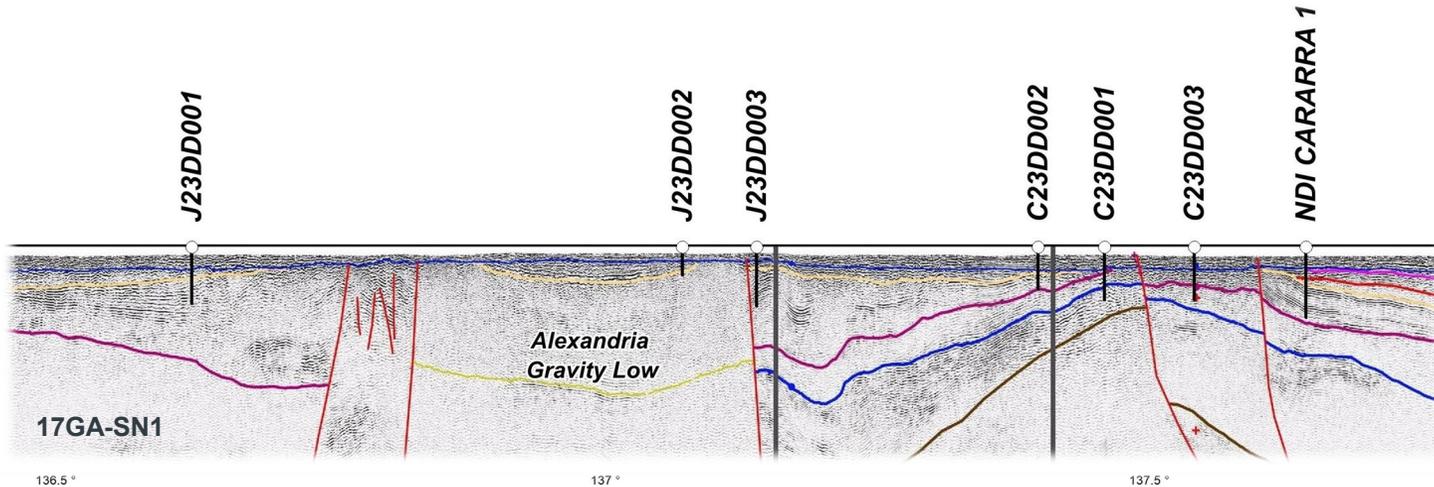


ZETA TARGET - EARLY OBSERVATIONS



Z23DD002 445m-459.5m Pervasive red-rock altered felsic volcanics

JESSICA PROJECT – ALEXANDRIA GRAVITY LOW



- Dull seismic character, with subtle reflectors
- Basement horst/felsic volcanic complex (?)
- What are the basement lithologies and what is the mineral exploration potential?
- Should we be exploring here?

JESSICA PROJECT – J23DD002

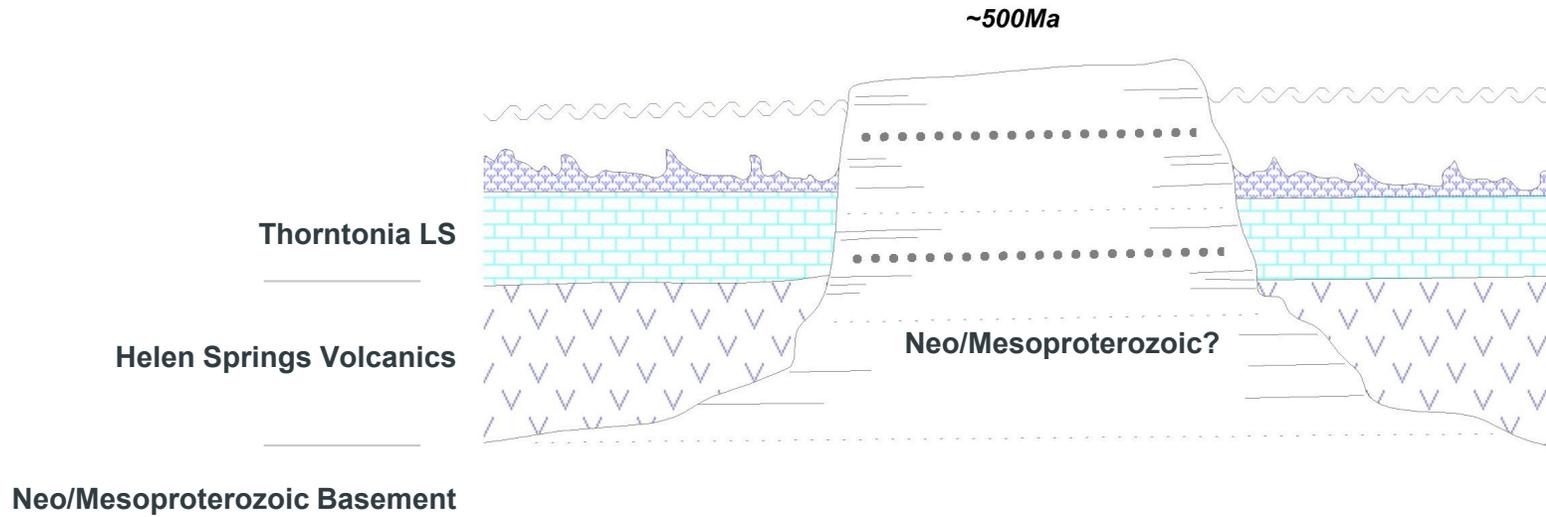
Hole Summary

- Nodular mudstones, thin sand horizons (6m - 100.9m)
- Ferruginous sandstones, minor pebble layers, cross bedding (100.9m – 524.9m) EOH
- Average SG ~2.55
- **Absent stratigraphic markers – Helen Springs Volcanics & Thornton Limestone (intersected in both J23DD001 & J23DD003)**
- **Where is the missing stratigraphy?**
- **Where are we in the stratigraphy?**



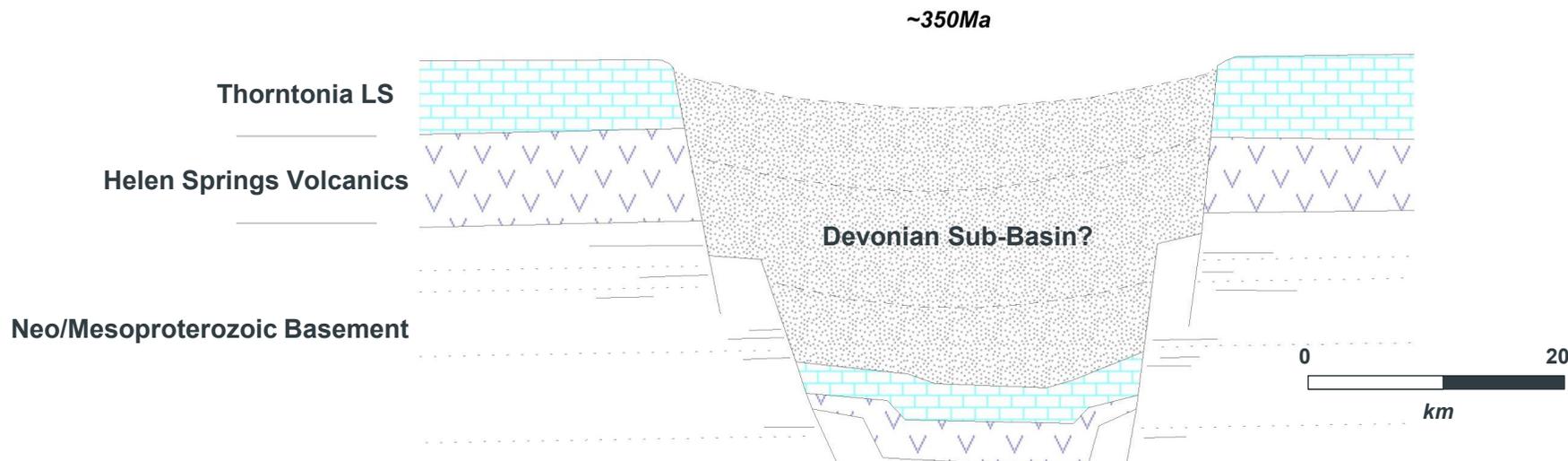
J23DD002 447m-515m Ferruginous sandstones, minor pebble layers, cross bedding

JESSICA PROJECT – AGL FORMATION SCENARIOS



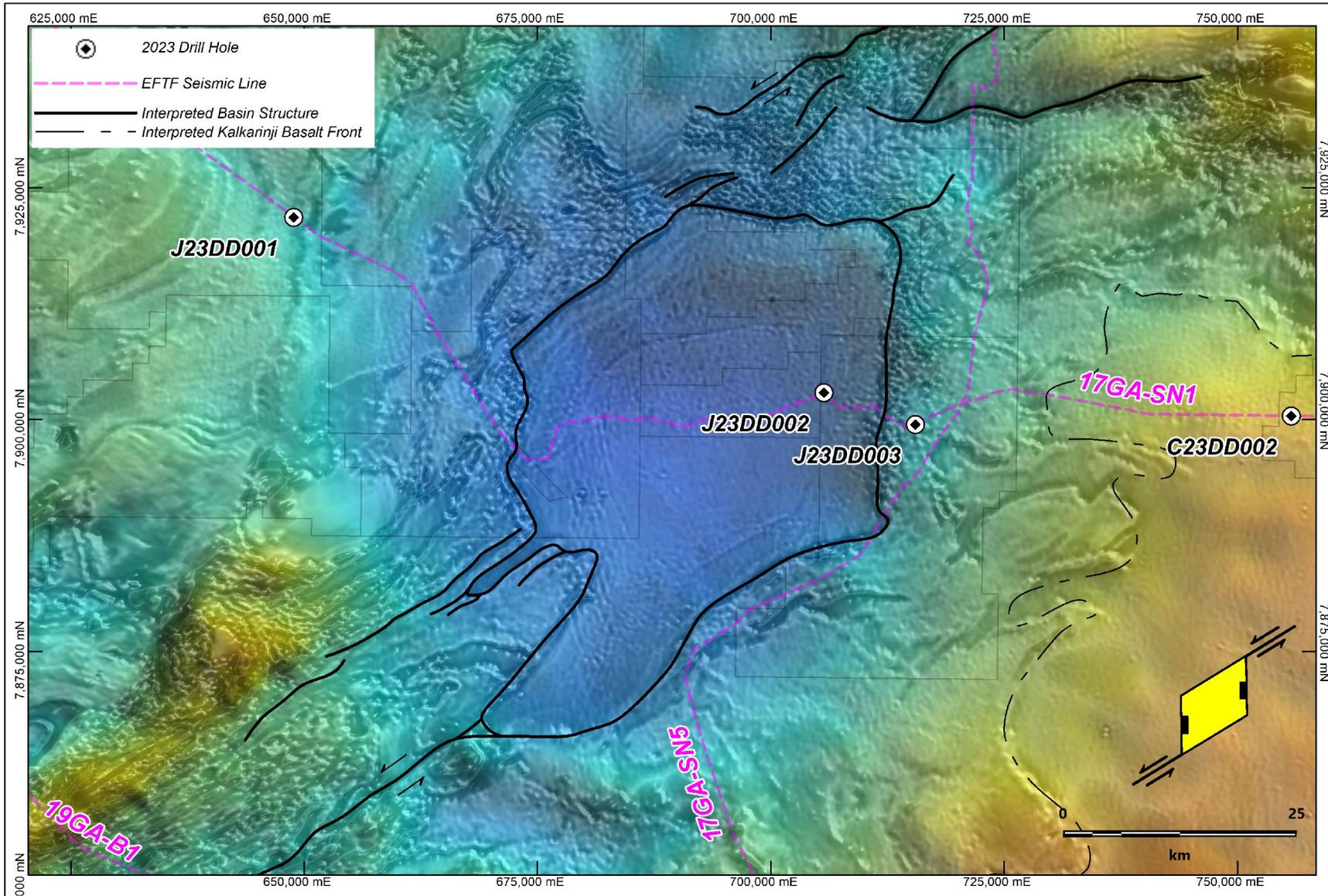
**Proterozoic Rise
Setting**

Interpreted Formation Scenarios

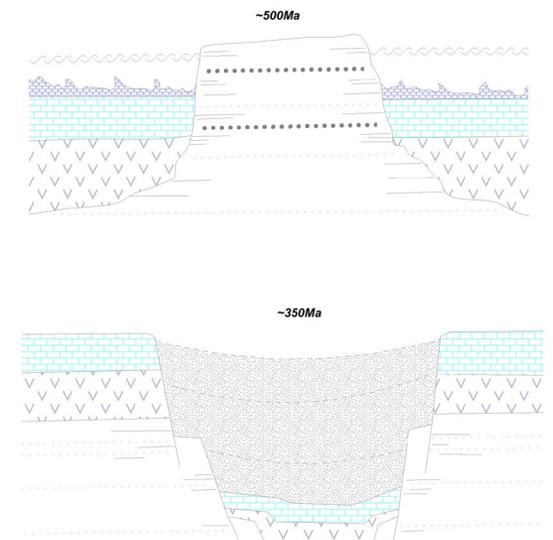


**Post-Cambrian Basin
Setting**

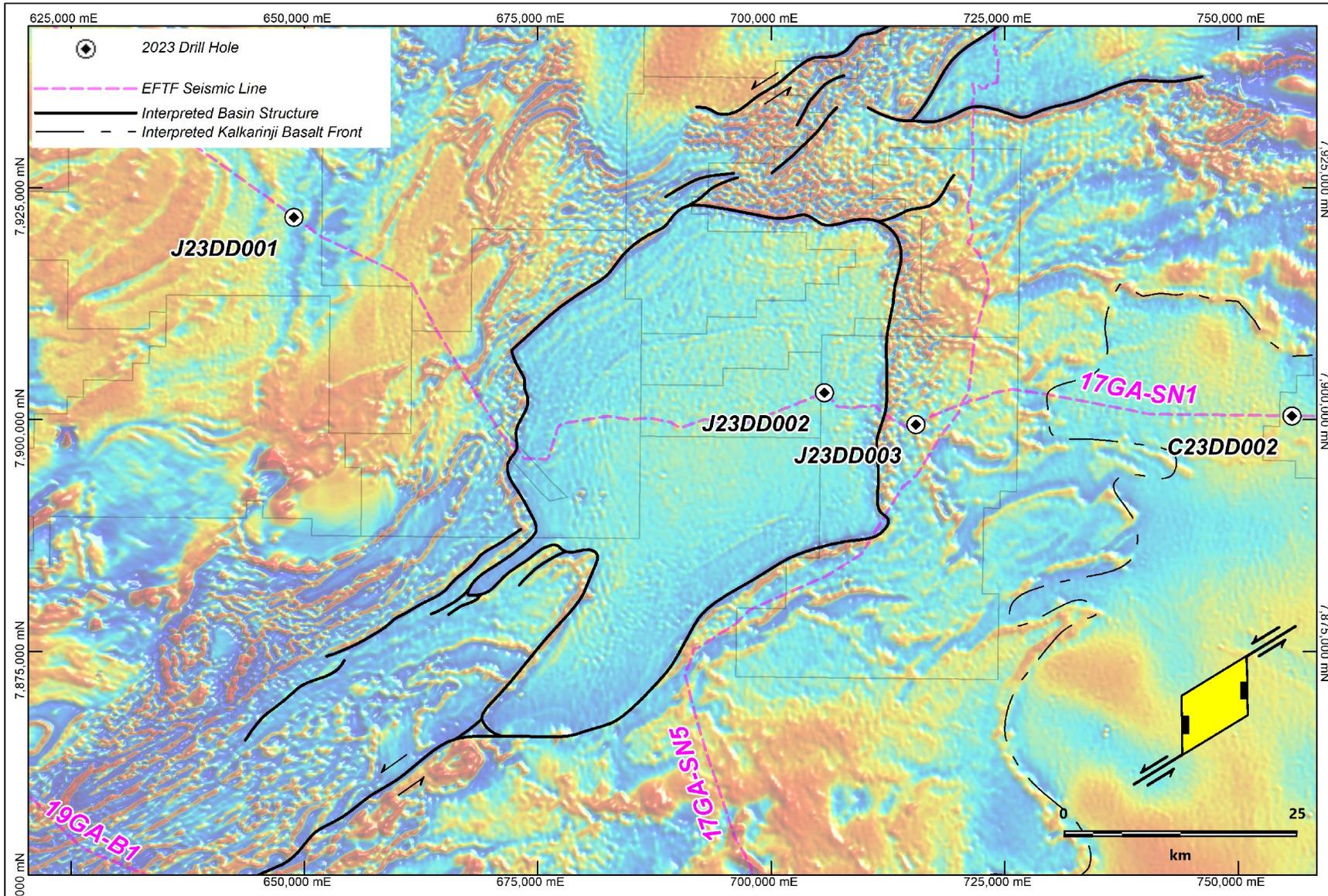
JESSICA PROJECT – ALEXANDRIA GRAVITY LOW



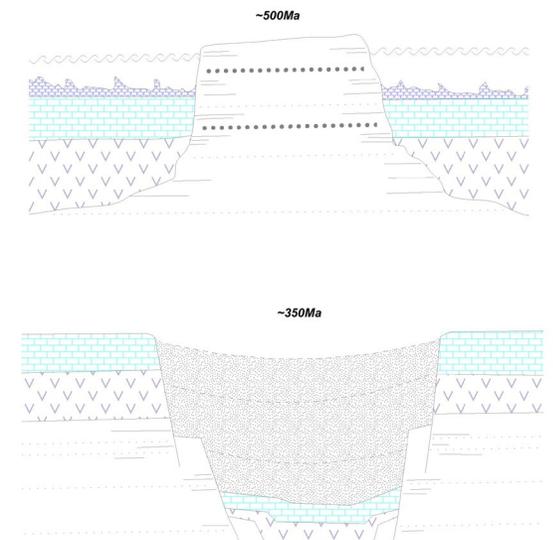
- Interpreted sinistral kinematics
- HSV intersected in J23DD001 (379.2-434m) & J23DD003 (120-203.1m)
- HSV & TL absent in J23DD002 & C23DD002
- Contrast in the magnetic character of the HSV



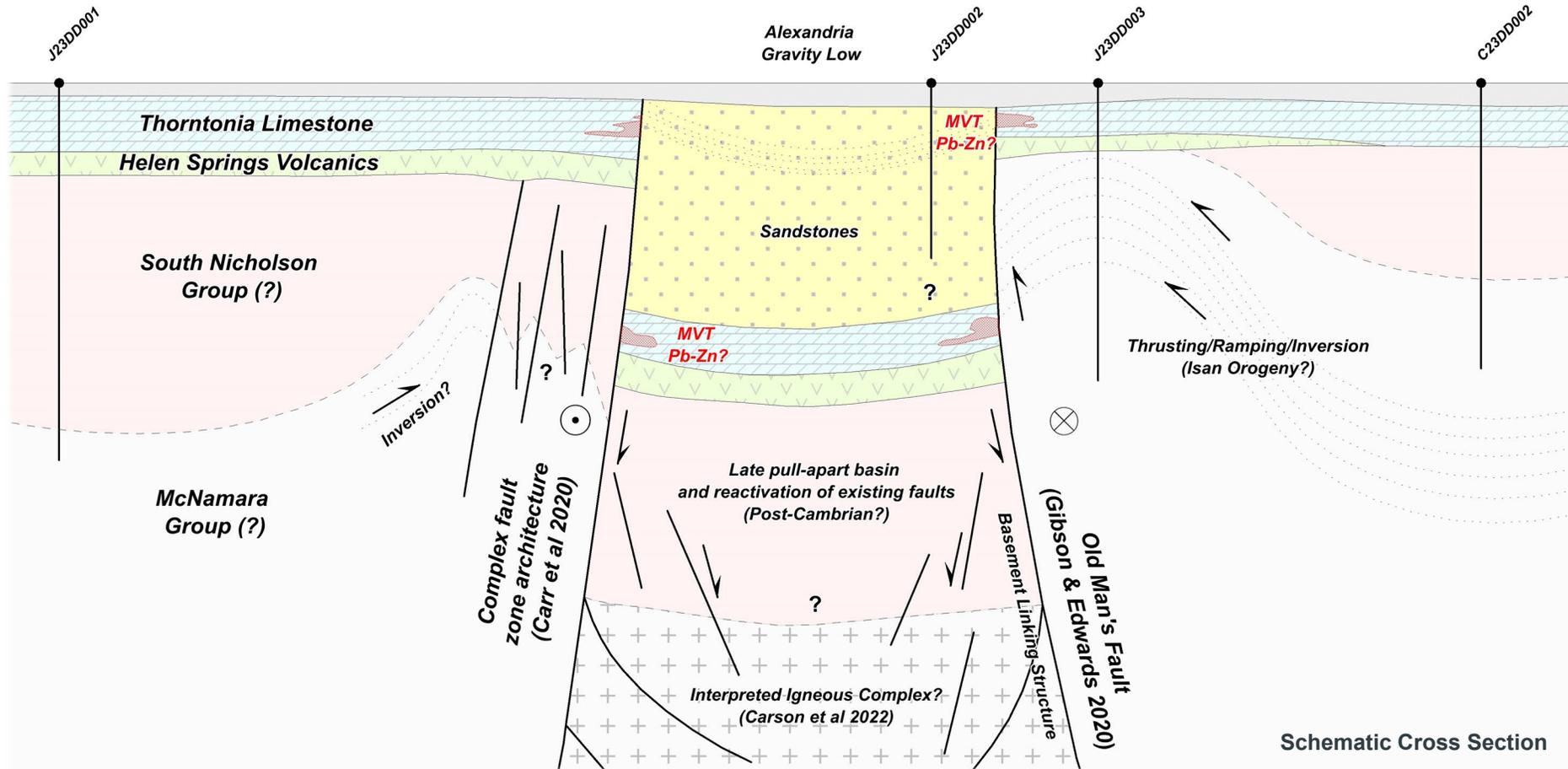
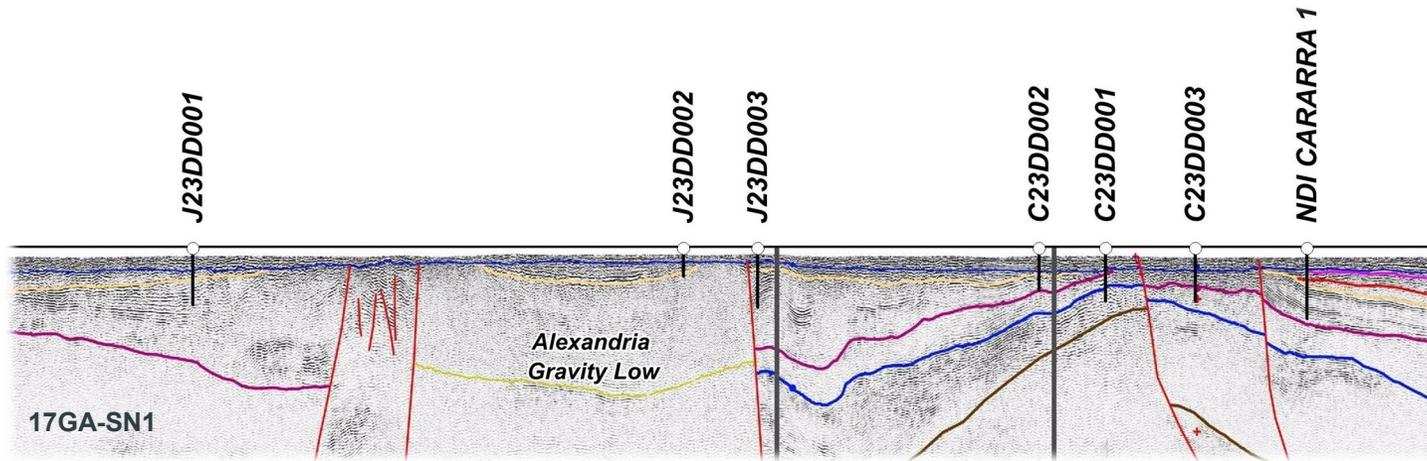
JESSICA PROJECT – ALEXANDRIA GRAVITY LOW



- Interpreted sinistral kinematics
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SUMMARY



SUMMARY & UPCOMING

Zeta Target – Jessica Project

- IOCG–style mineralisation & alteration identified
- Hem-Bn-Cpy-Py assemblage and pervasive red rock hematite alteration
- Interpreted bimodal felsic and mafic sequences present
- Petrology & age dating results pending - Basement Geology?
- Follow up geophysics

Alexandria Gravity Low – Jessica Project

- Interpreted post-Cambrian sub-basin
- Reactivation of basement linking structures and potential for MVT style mineralisation

Carrara Project

- Multi-element geochemistry, petrology & age dating results pending
- Updated stratigraphy and structural interpretation