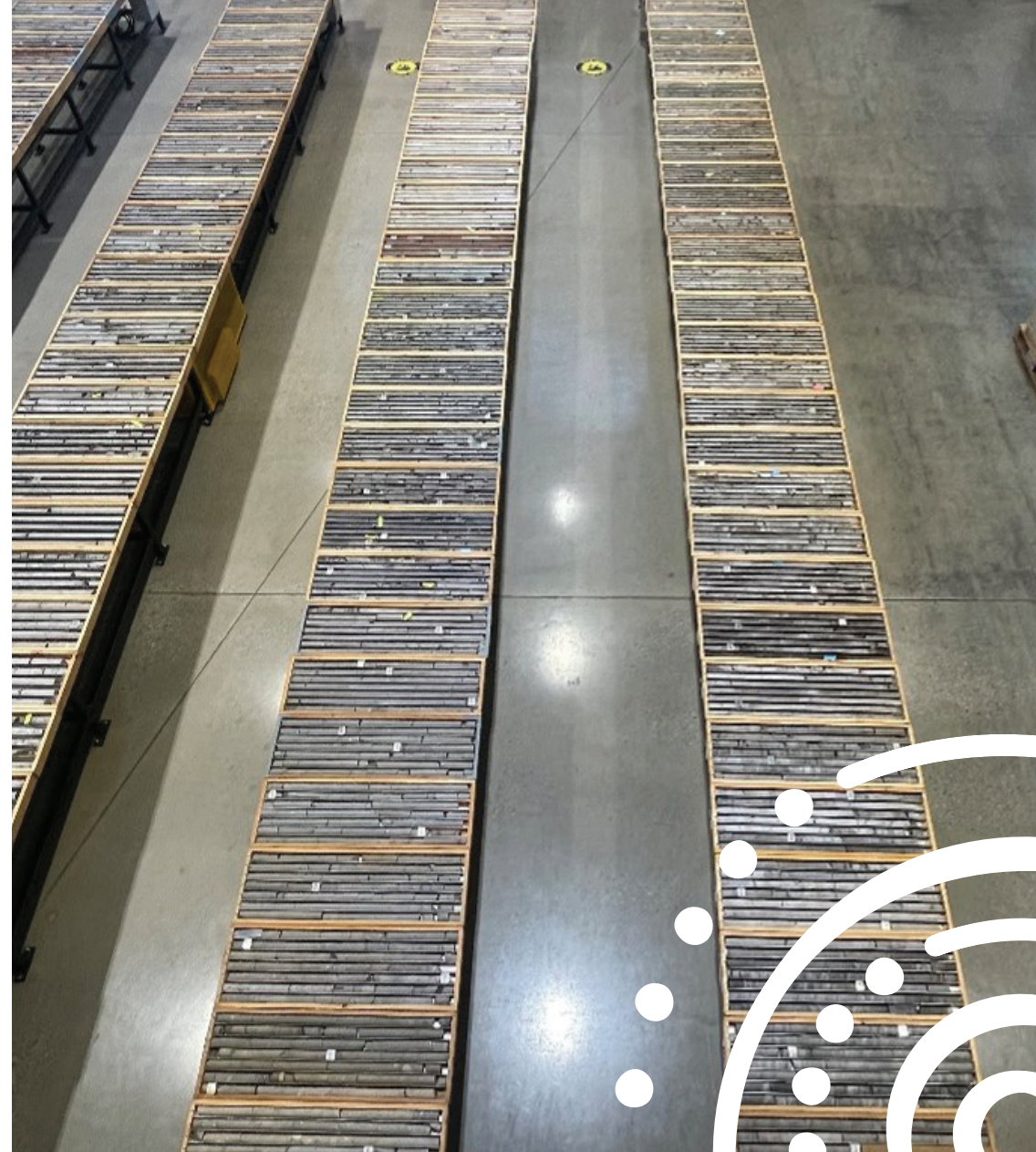




# SR13/2 (DH 16794) drillhole report

Sedimentary Copper Mineral Systems of the Stuart Shelf  
GSSA–CSIRO project

C Krapf, A Fabris, W Preiss, M Werner, S Schmid,  
V Crombez, J Lloyd, D Subarkah and A Collins



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C Krapf<sup>1</sup>, A Fabris<sup>1</sup>, W Preiss<sup>1</sup>, M Werner<sup>1</sup>, S Schmid<sup>2</sup>,  
V Crombez<sup>2</sup>, J Lloyd<sup>3</sup>, D Subarkah<sup>3</sup> and A Collins<sup>3</sup>

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Department for Energy and Mining

2 CSIRO

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### Acknowledgement of Country

As guests on Aboriginal land, the Department for Energy and Mining (DEM) acknowledges everything this department does impacts on Aboriginal country, the sea, the sky, its people, and the spiritual and cultural connections which have existed since the first sunrise. Our responsibility is to share our collective knowledge, recognise a difficult history, respect the relationships made over time, and create a stronger future. We are ready to walk, learn and work together.

### Preferred way to cite this publication

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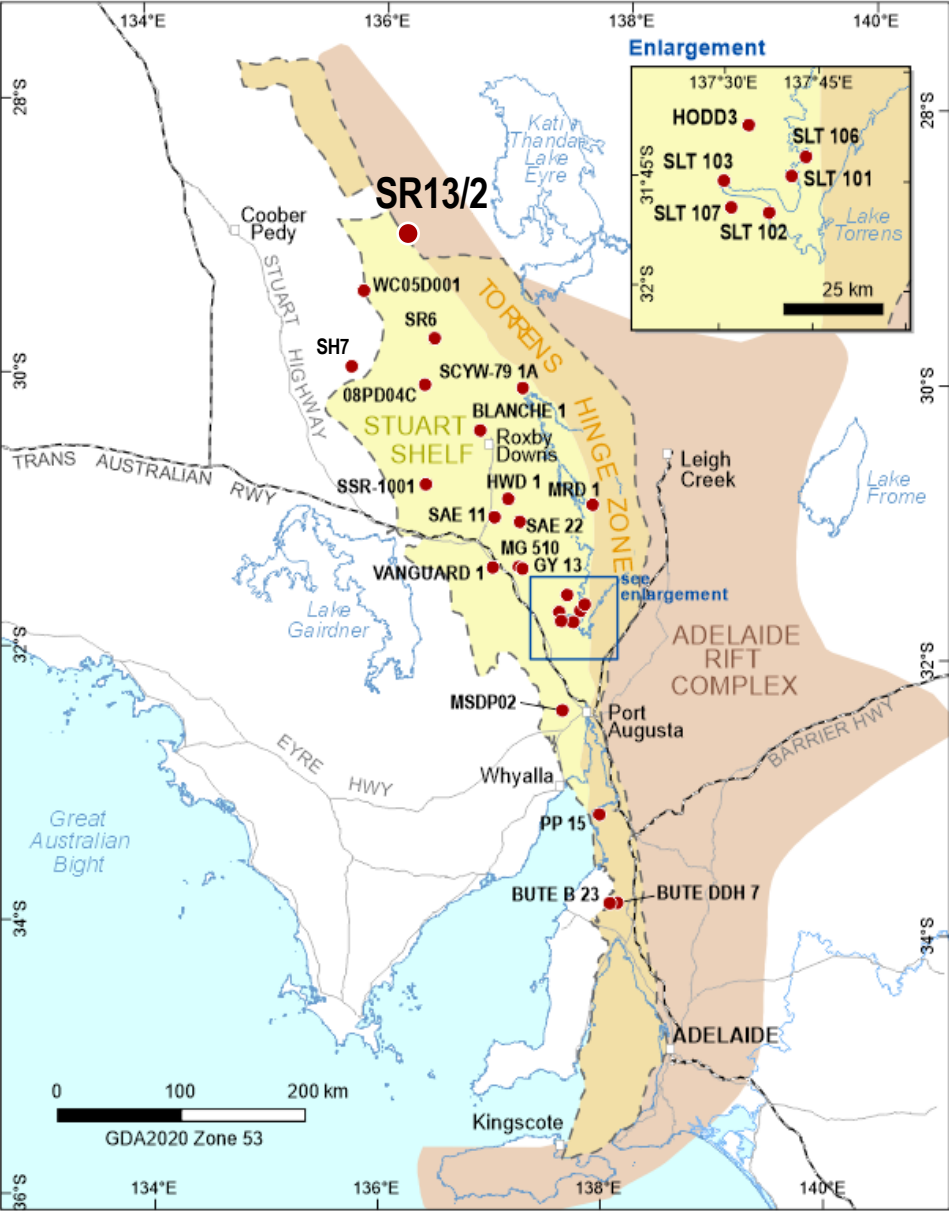
# Drillhole information

|                  |                          |             |
|------------------|--------------------------|-------------|
| Drillhole name   | <a href="#">SR13/2</a>   |             |
| Drillhole number | 16794                    |             |
| Tenement         | EL 341                   |             |
| Location         | 136.1763119 Long         | 614569.43E  |
|                  | -29.0068563 Lat          | 6790684.42N |
|                  | GDA2020, Zone 53         |             |
| Date drilled     | 26/03/1979               |             |
| Drillhole depth  | 900.27 m                 |             |
| Cored interval   | 724.27 m                 |             |
| Azimuth/Dip      | 2                        | -82         |
| Reference        | <a href="#">ENV03092</a> |             |

This drillhole report provides a summary of new logging and data collection undertaken as part of the Sedimentary Copper Mineral Systems of the Stuart Shelf GSSA-CSIRO project.

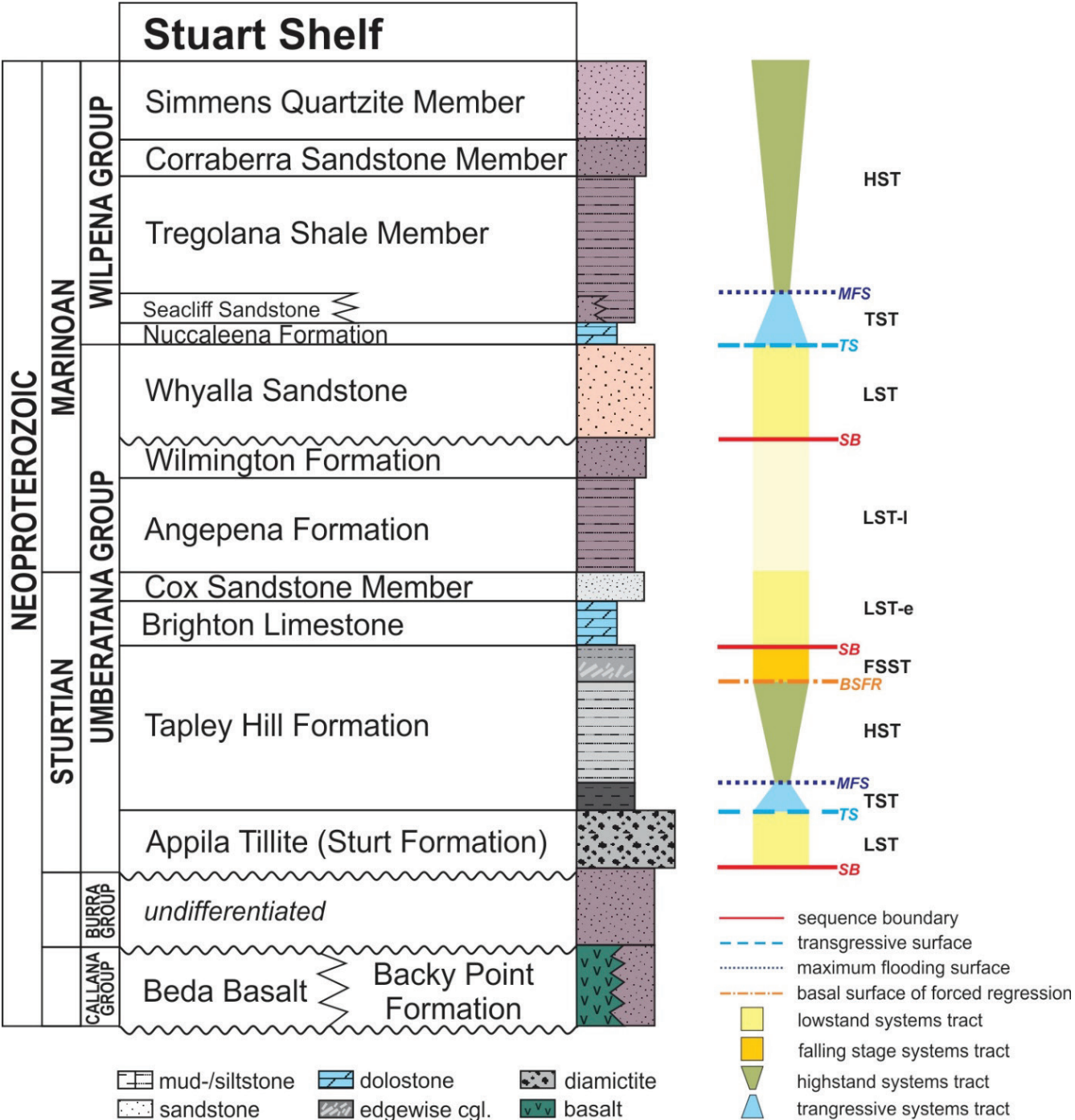
Associated newly collected handheld gamma, portable XRF and HyLogger™ data are available for download via the [blue hyperlinks](#) in this report.

# Drillhole location





# Generalised stratigraphy and sequence stratigraphy of the Stuart Shelf\*



\*Note: not all stratigraphic units were deposited or preserved throughout the Stuart Shelf



# SR13/2 generalised stratigraphic log

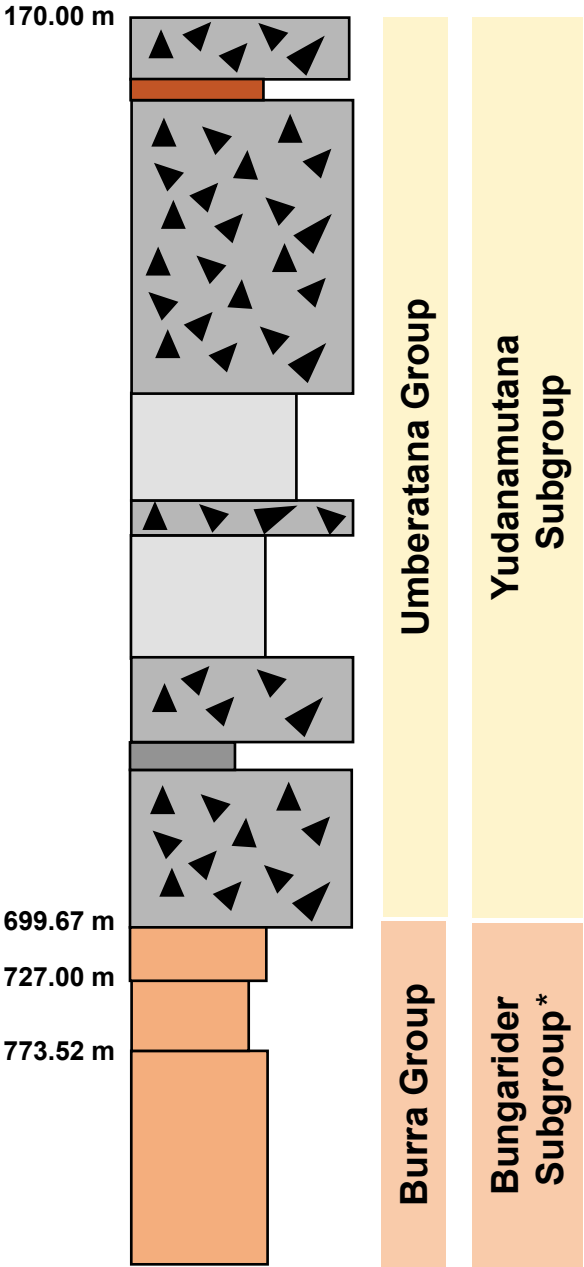
(depth interval 170 – 800 m)

Handheld gamma\*

[Download gamma data](#)

HyLogger™

[Download HyLogger™ data](#)



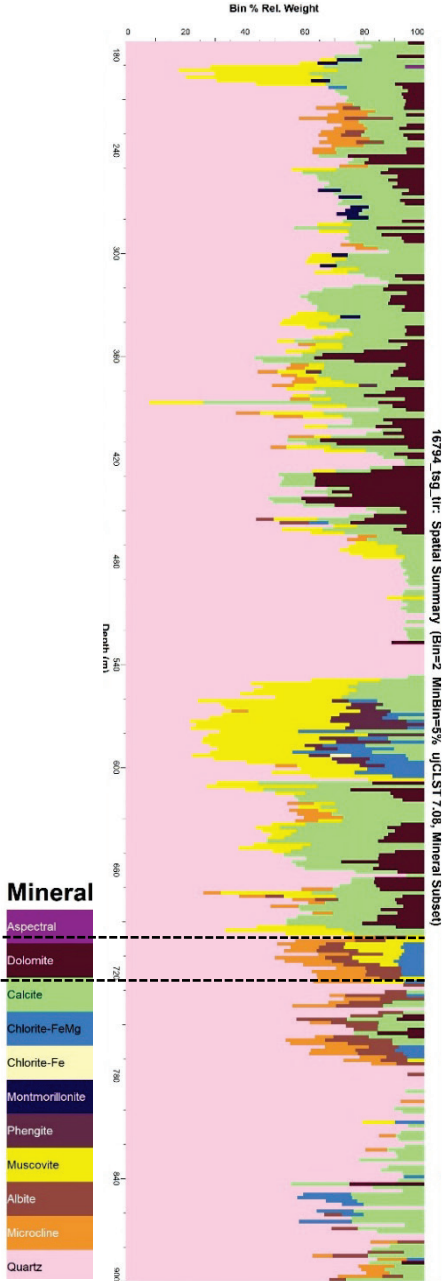
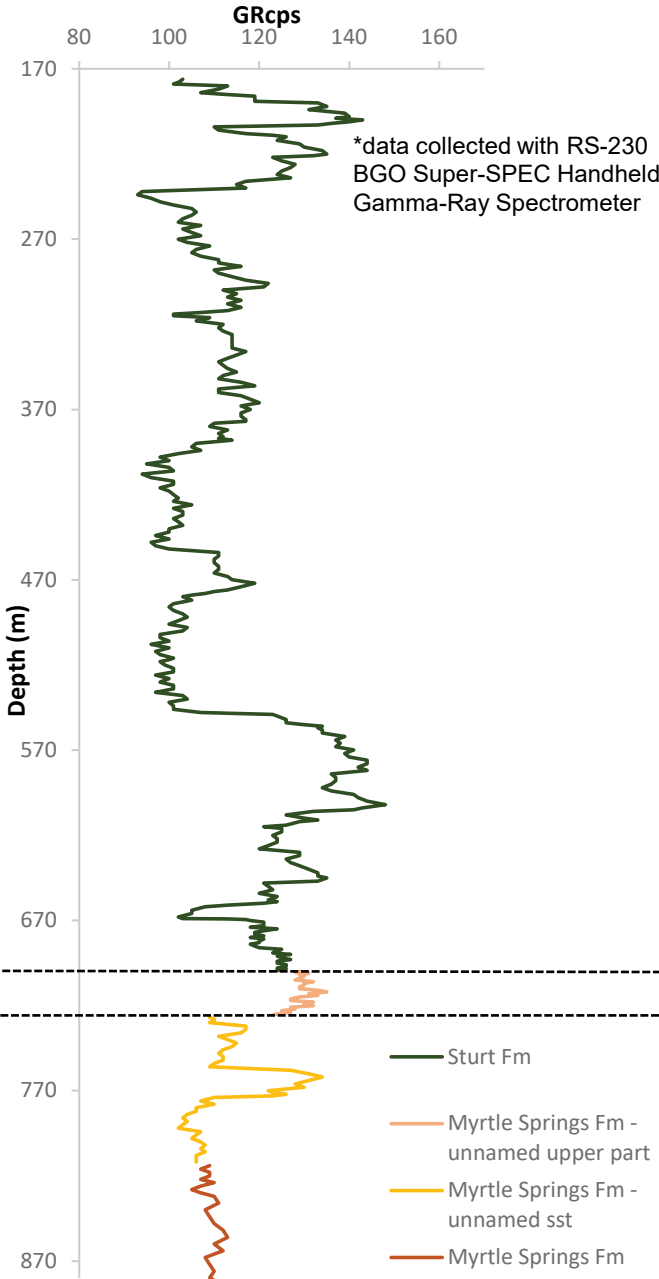
Sturt Formation  
(Appila Tillite)

697.5m lowest diamictite  
Unnamed Upper Unit\*

Unnamed Sandstone\*

Myrtle Springs Formation\*

\*after W. Preiss (pers. com.)



# SR13/2 generalised stratigraphic log

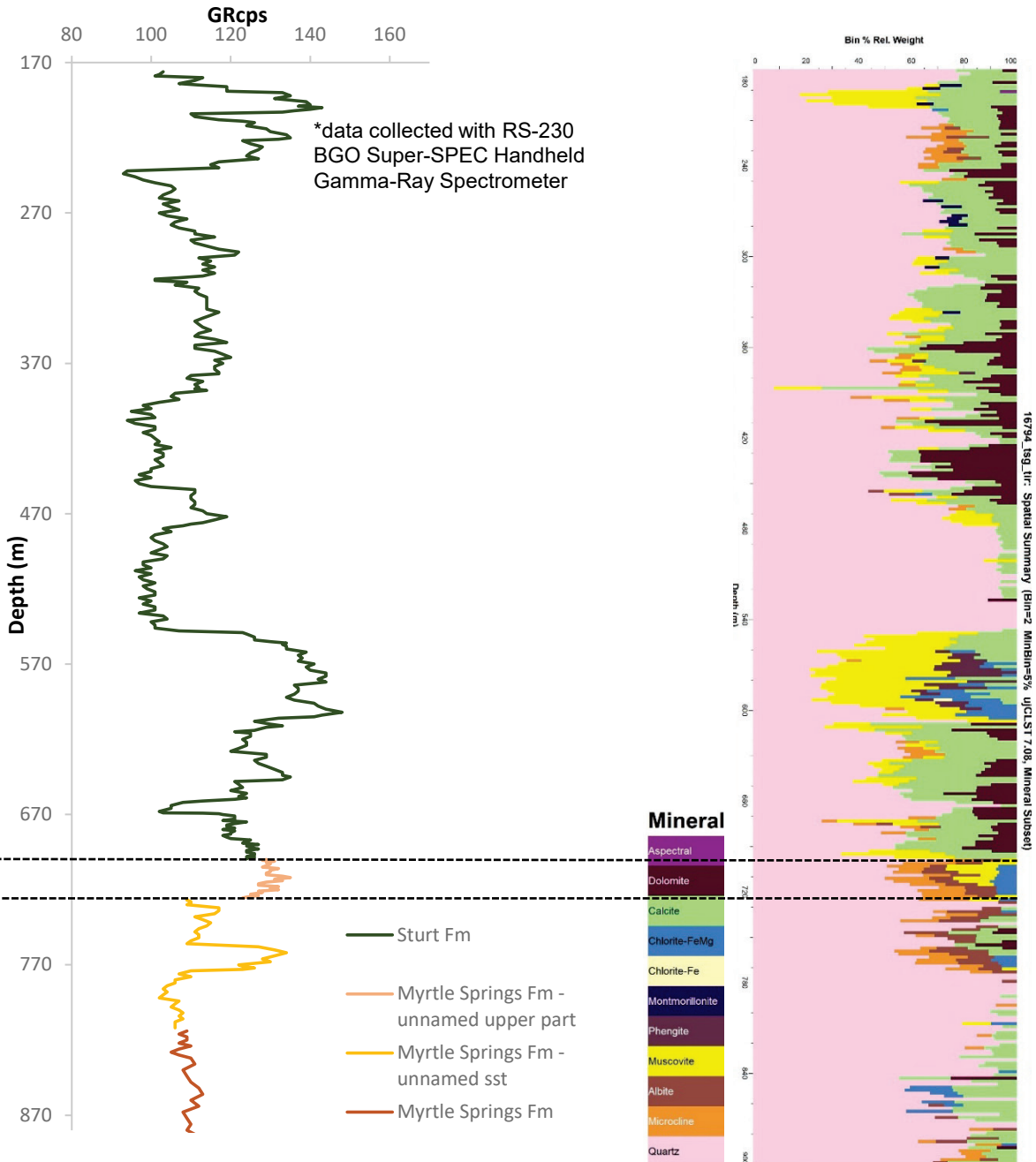
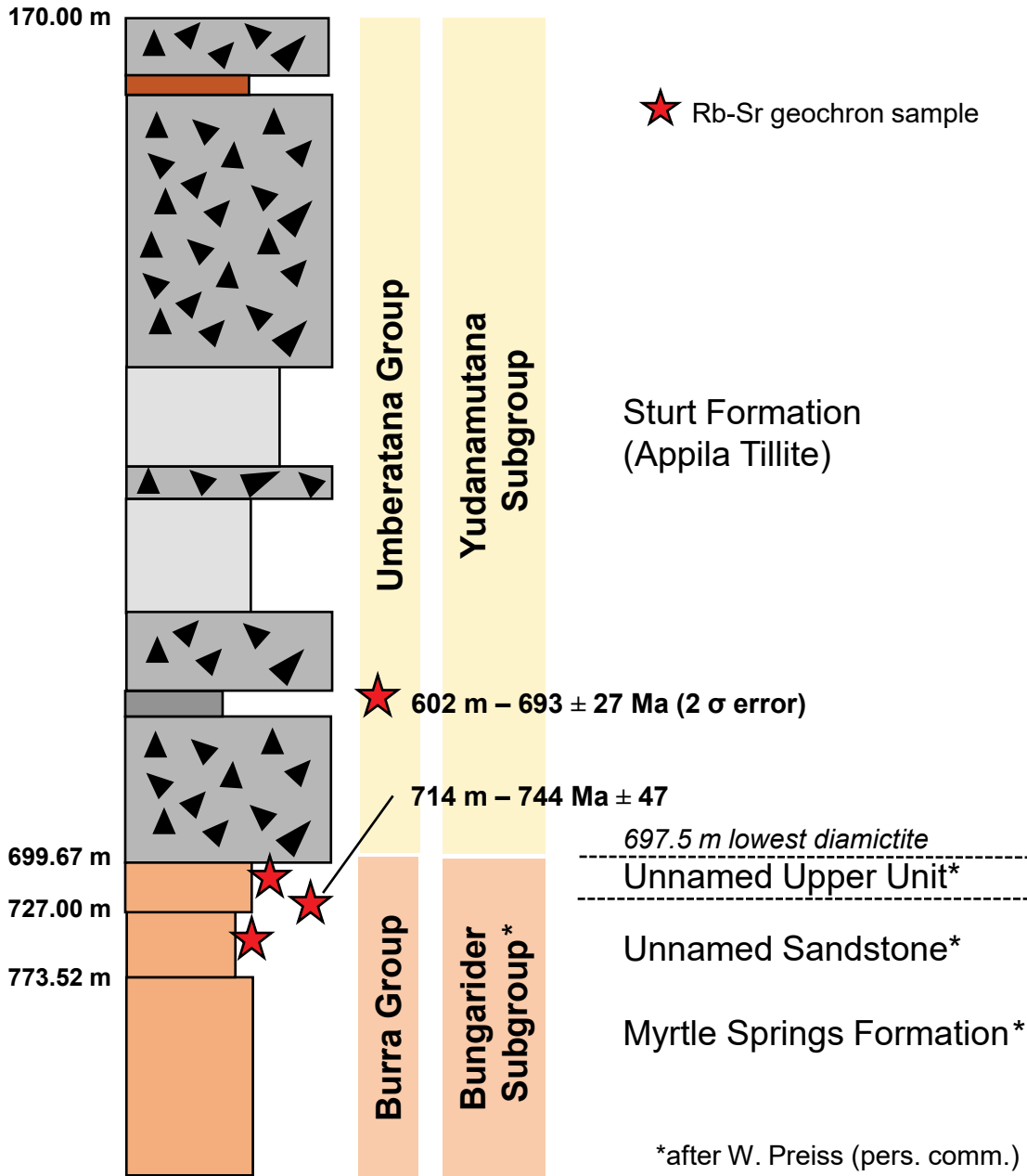
(depth interval 170 – 800 m)

Handheld gamma\*

[Download gamma data](#)

HyLogger™

[Download HyLogger™ data](#)

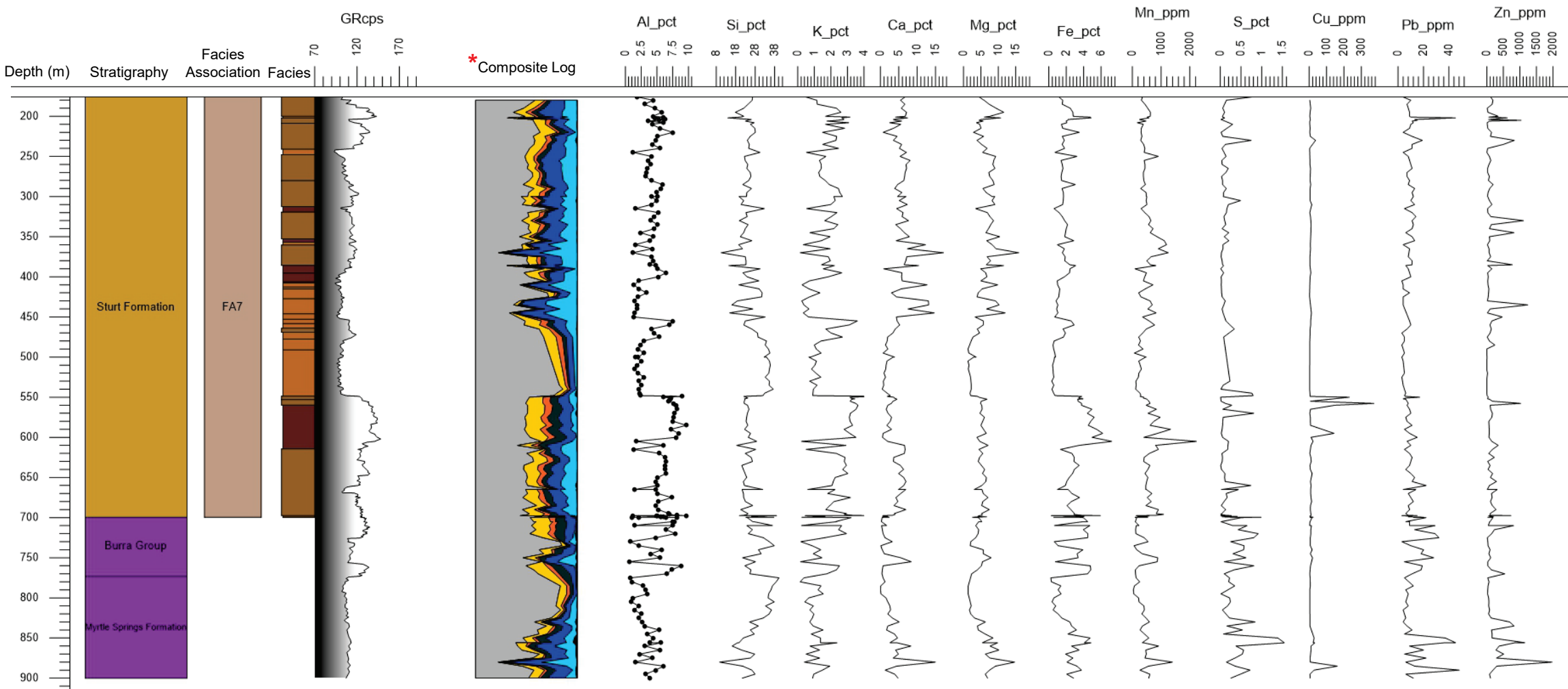


# Combined STRATER log (stratigraphy, facies, gamma and handheld pXRF\* - corrected)



[Download pXRF data](#)

## SR13/2 (depth interval 170 – 800 m)



### Facies Association (FA)

- FA1: offshore
- FA2: offshore transition
- FA3: lower shoreface - prodelta
- FA4: shoreface to delta front
- FA5: shallow subtidal to subtidal
- FA6: intertidal to supratidal
- FA7: glacial to fluvio-glacial

- \* Mg\_pct
- Al\_pct
- Si\_pct
- S\_pct
- K\_pct
- Ca\_pct
- Fe\_pct
- Cu\_ppm
- Pb\_ppm
- Zn\_ppm

\*data collected with Vanta™ Handheld XRF



# Burra Group – Myrtle Springs Formation (depth 699.67 – 900.27 m)

siltstones and fine- to medium-grained sandstones





# Burra Group – Myrtle Springs Formation

siltstones and fine- to medium-grained sandstones





# Transition Burra Group – Sturt Formation (Appila Tillite)



reworked cherty ooids  
@ 709.6 – 709.9 m



debrite at base  
of Sturt Formation



**Sturt Formation (Appila Tillite)** (depth 92 – 699.67 m) – diamictites





**Sturt Formation (Appila Tillite) – diamictites**



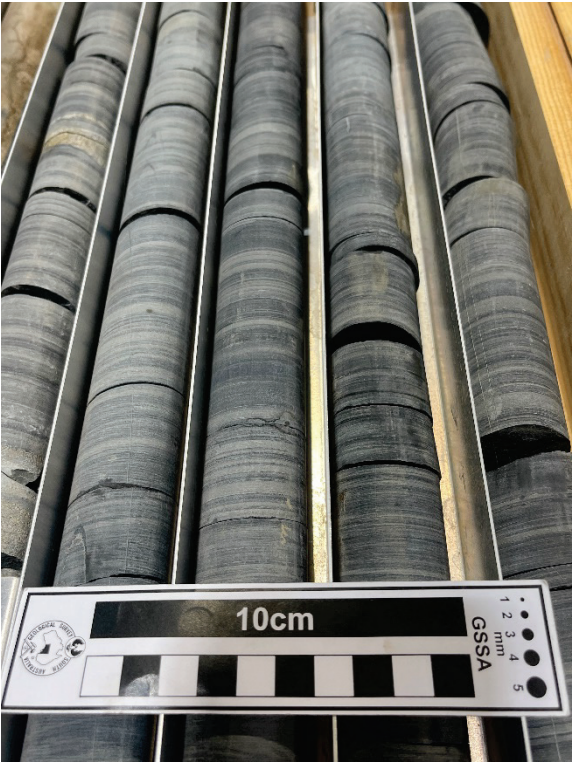
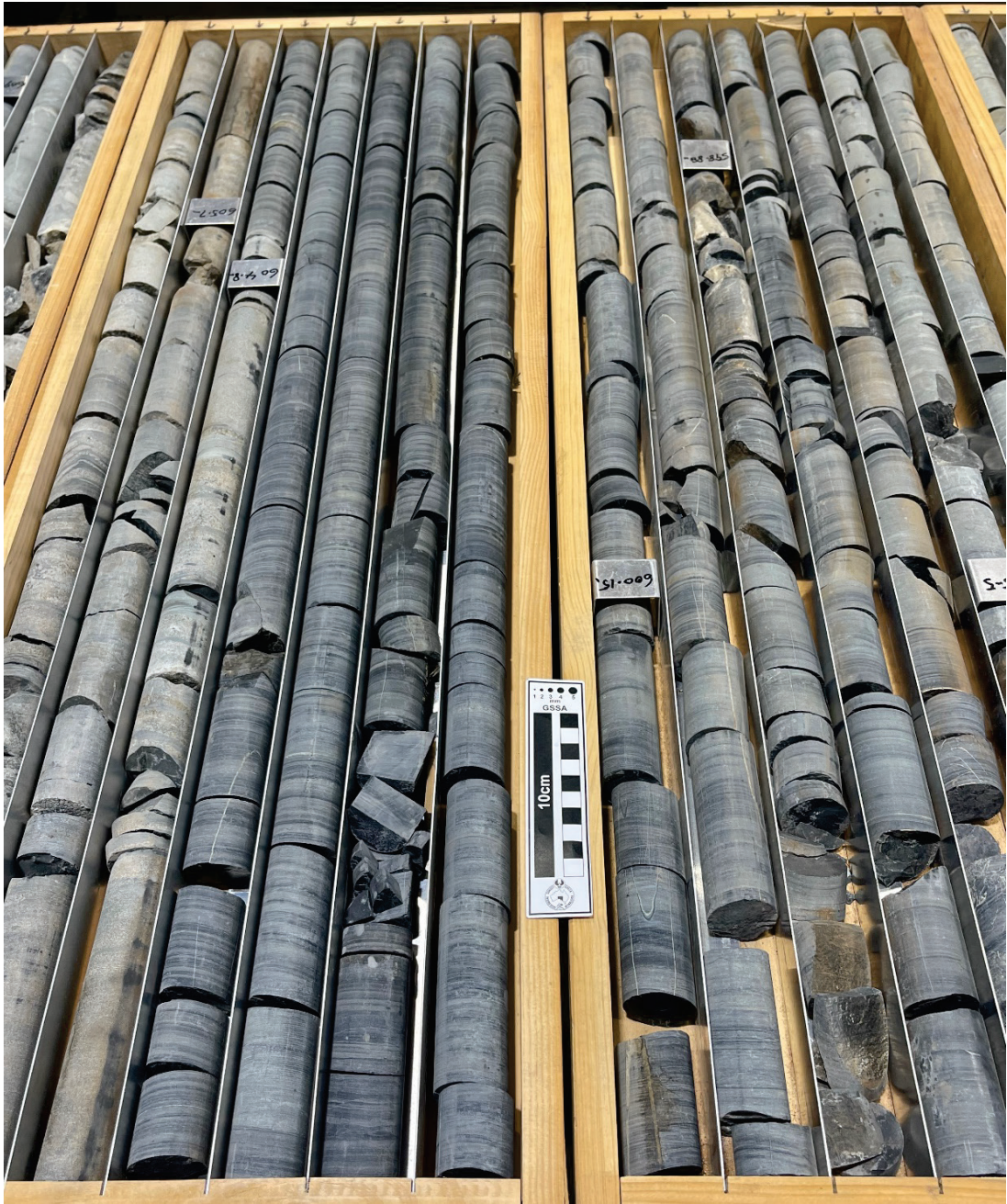


**Sturt Formation (Appila Tillite) – conglomerates**



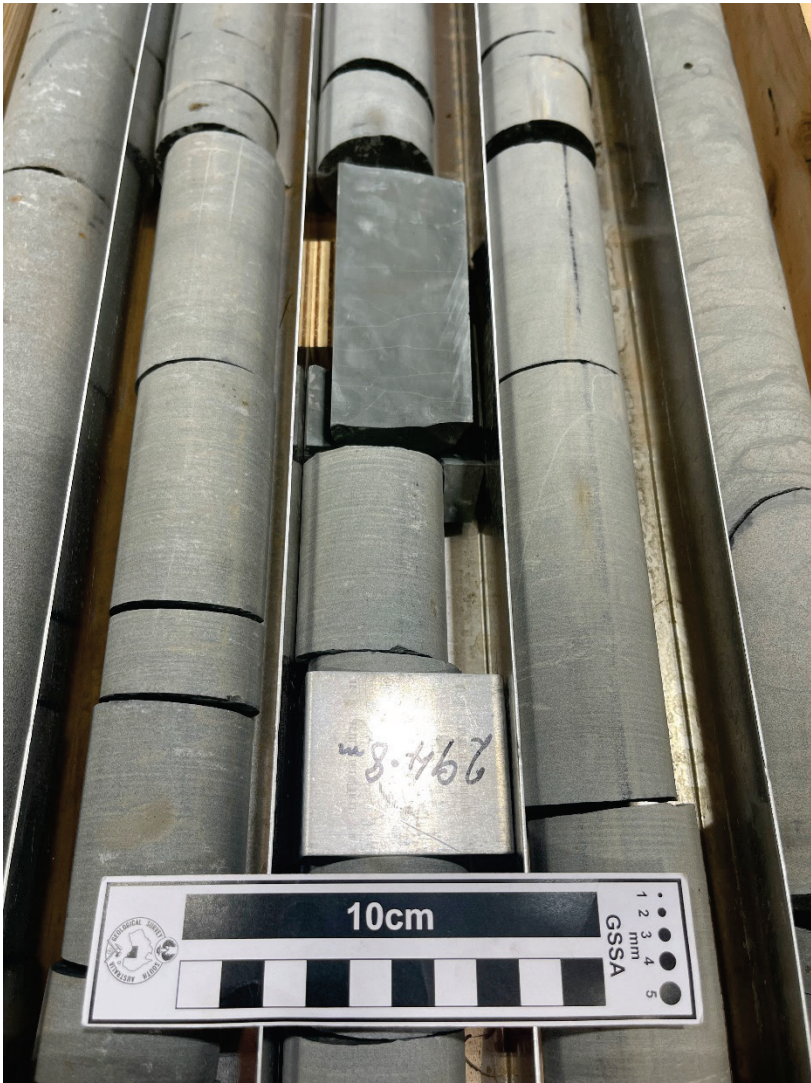
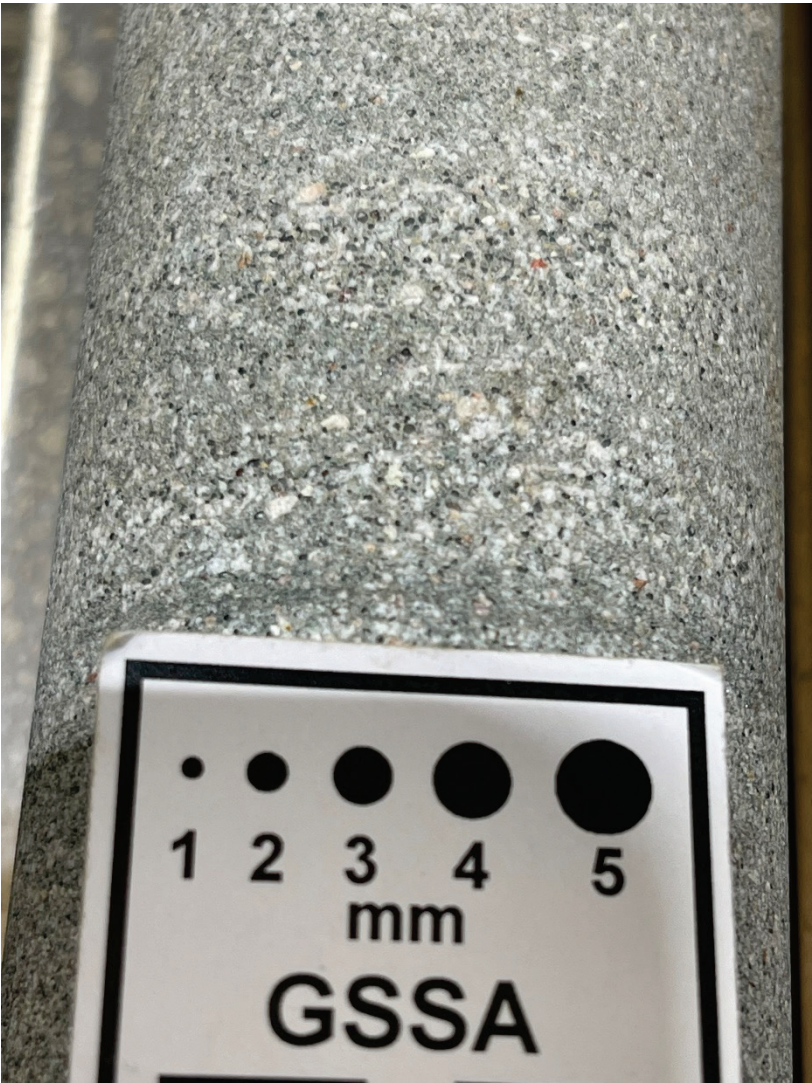


**Sturt Formation (Appila Tillite) – siltstones**





**Sturt Formation (Appila Tillite) – sandstones**





# Sturt Formation (Appila Tillite) – red sandstones

