



Sequence stratigraphy of the Lower Jurassic succession in the Surat Basin, Queensland

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Sequence Stratigraphy of the Lower Jurassic – Surat Basin

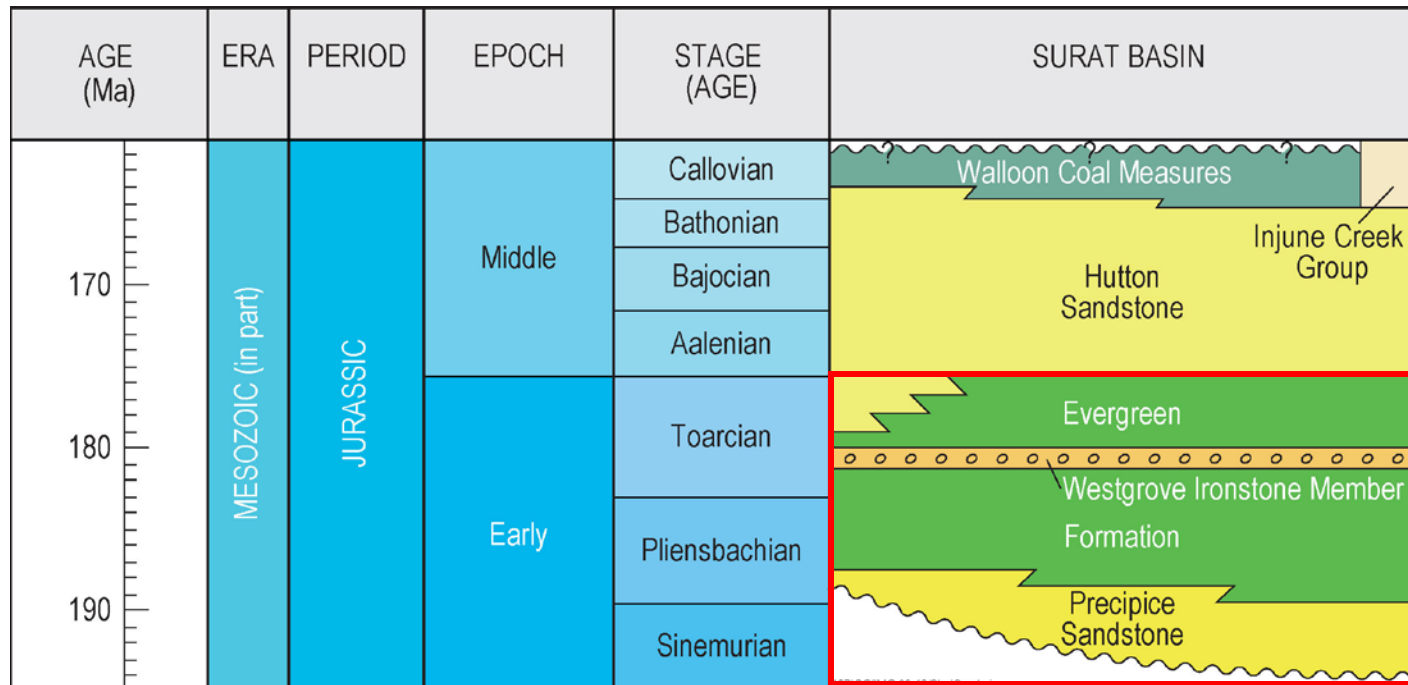
Introduction

- Formation picking methodologies and how this effects our net/gross reservoir interpretations
- GSQ Roma 8 sequence stratigraphic determination and how it relates to GSQ Chinchilla 4
- Overview of results and implications for the interpretation of the Boxvale Sandstone Member

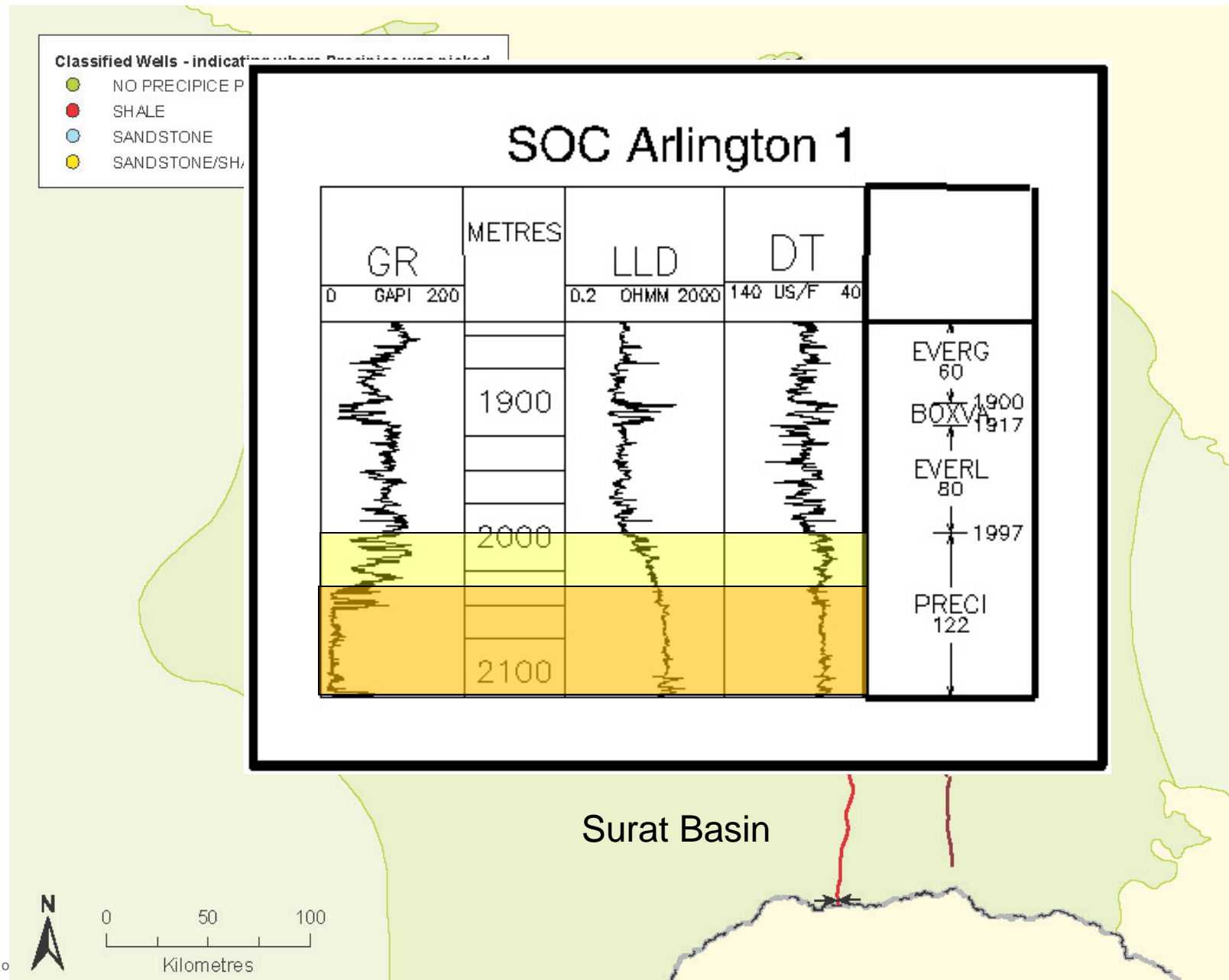


Formation picking methodologies

- Formation picks for the Precipice Sandstone – Evergreen Formation have various philosophies applied over time
- GSQ is currently developing with the specialist assistance of Geoenergy Exploration Consultants a methodology based on a sequence stratigraphic approach

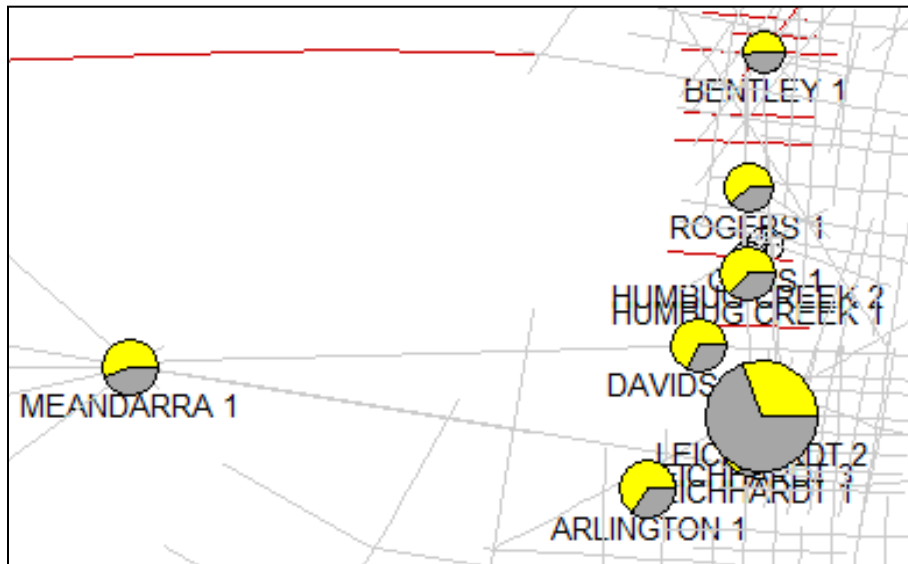


Lithostratigraphic approach

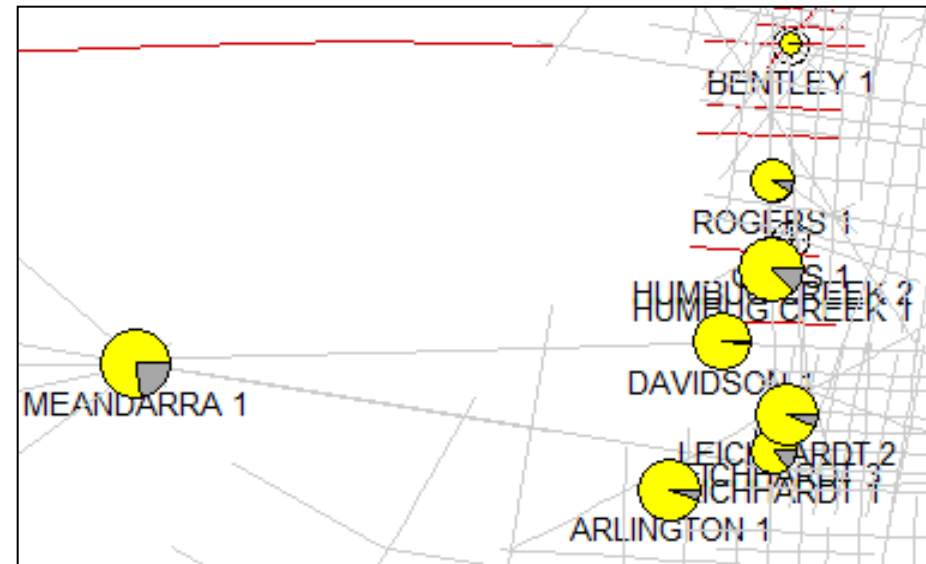


Net-to-Gross Prediction

Precipice based on Res-marker



Precipice based on Gamma-marker



Well tops based on gamma ray only result in higher NTG

Highlights the need to more appropriately constrain the geological framework.

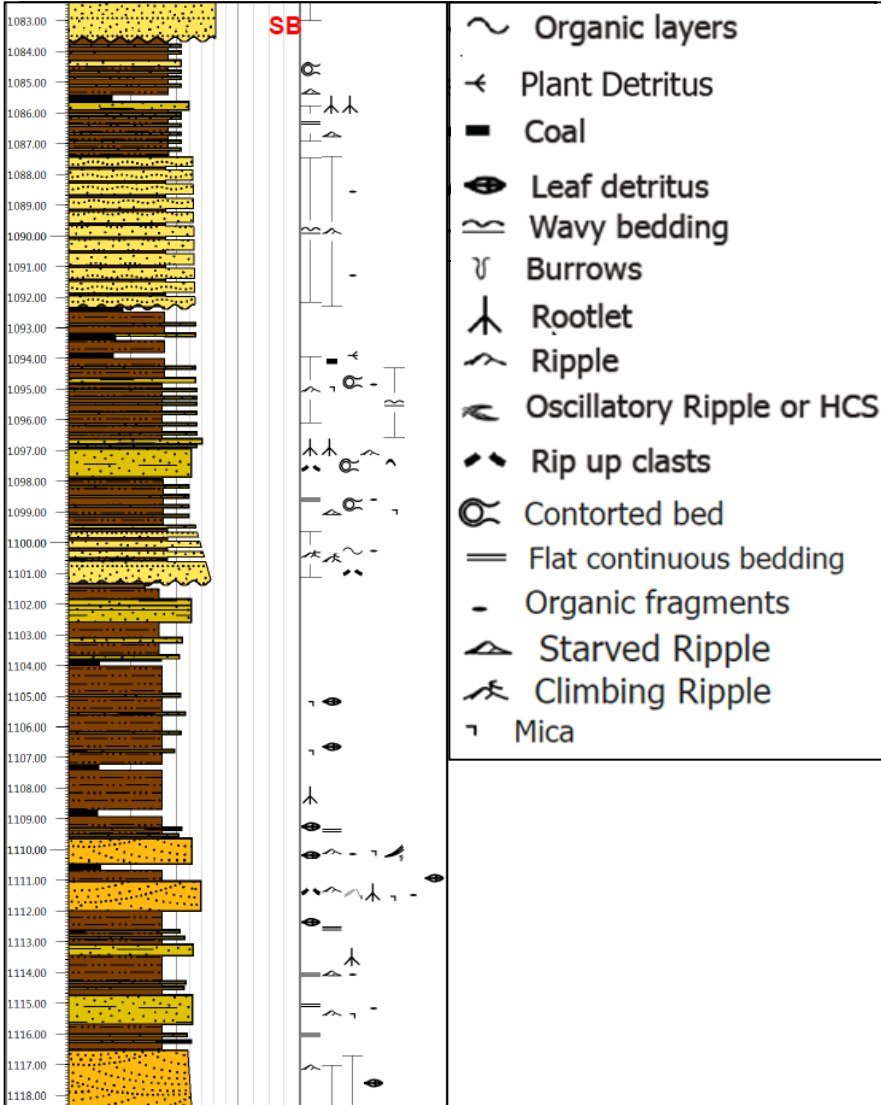
Westgrove Ironstone Member

Contains siderite which would suggest no marine influence. Climate related?

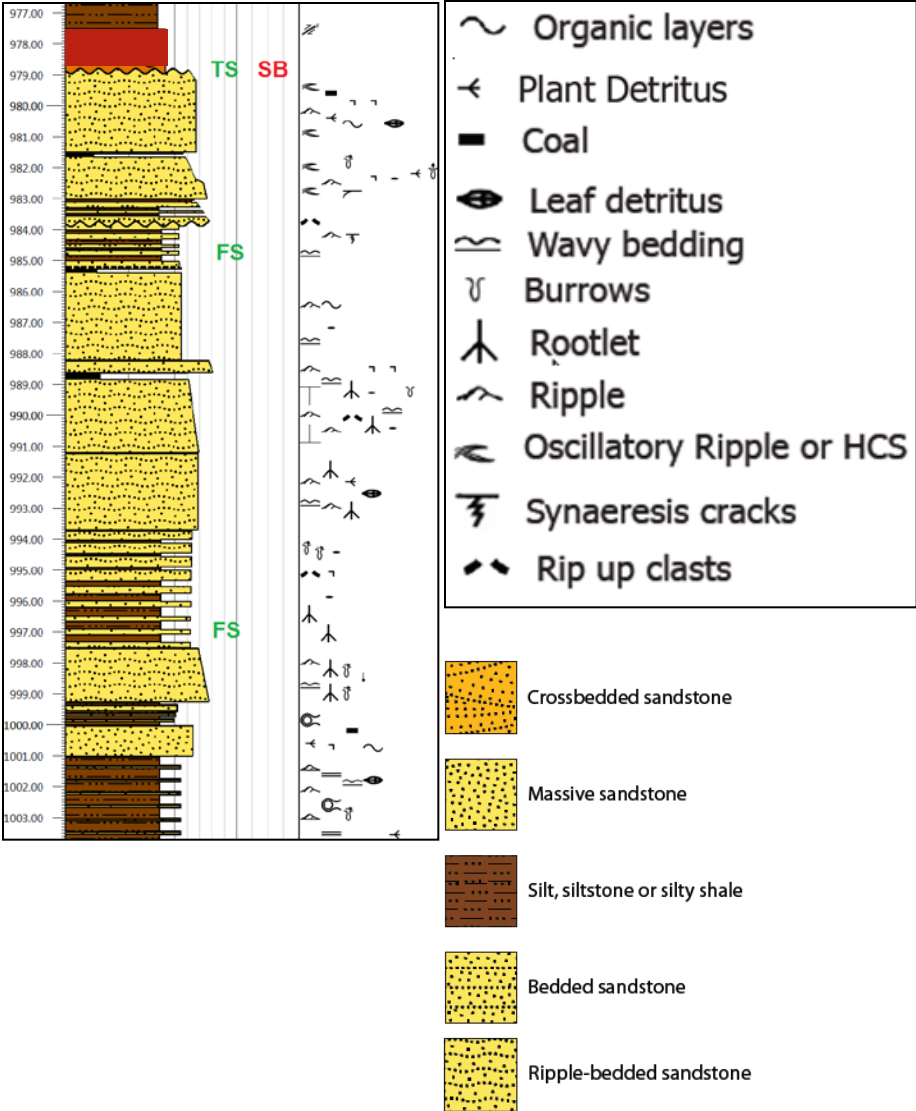


Facies comparisons

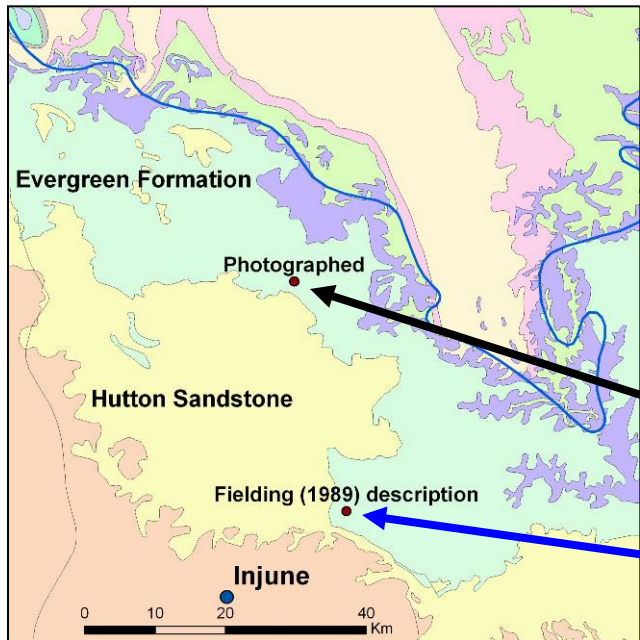
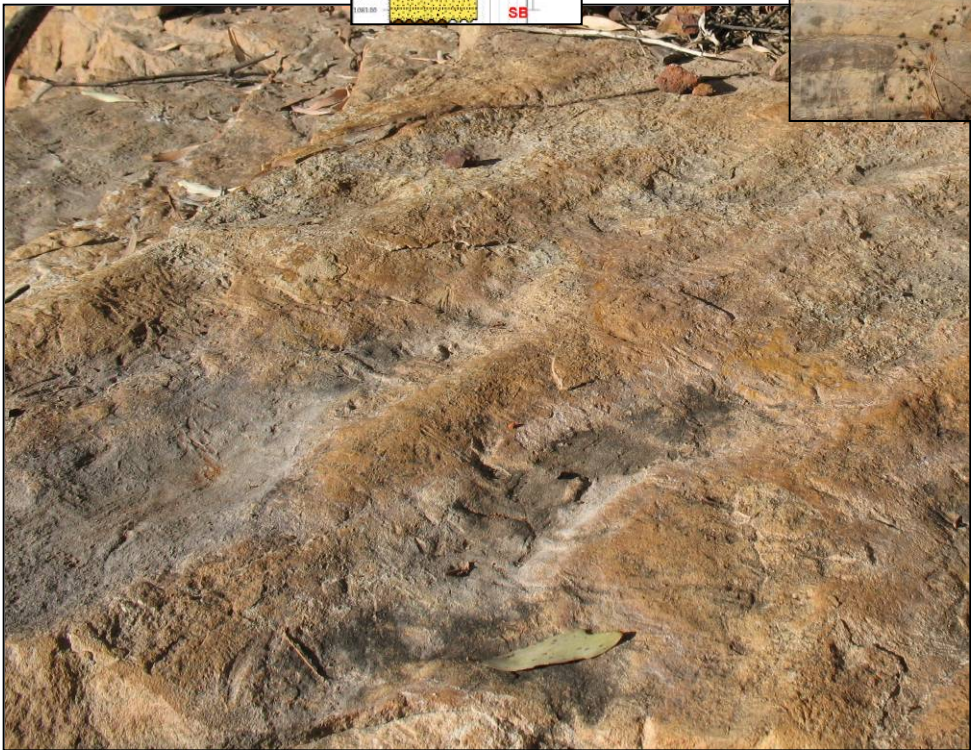
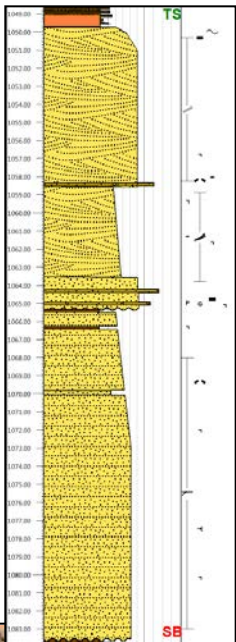
GSQ Chinchilla 4



GSQ Roma 8

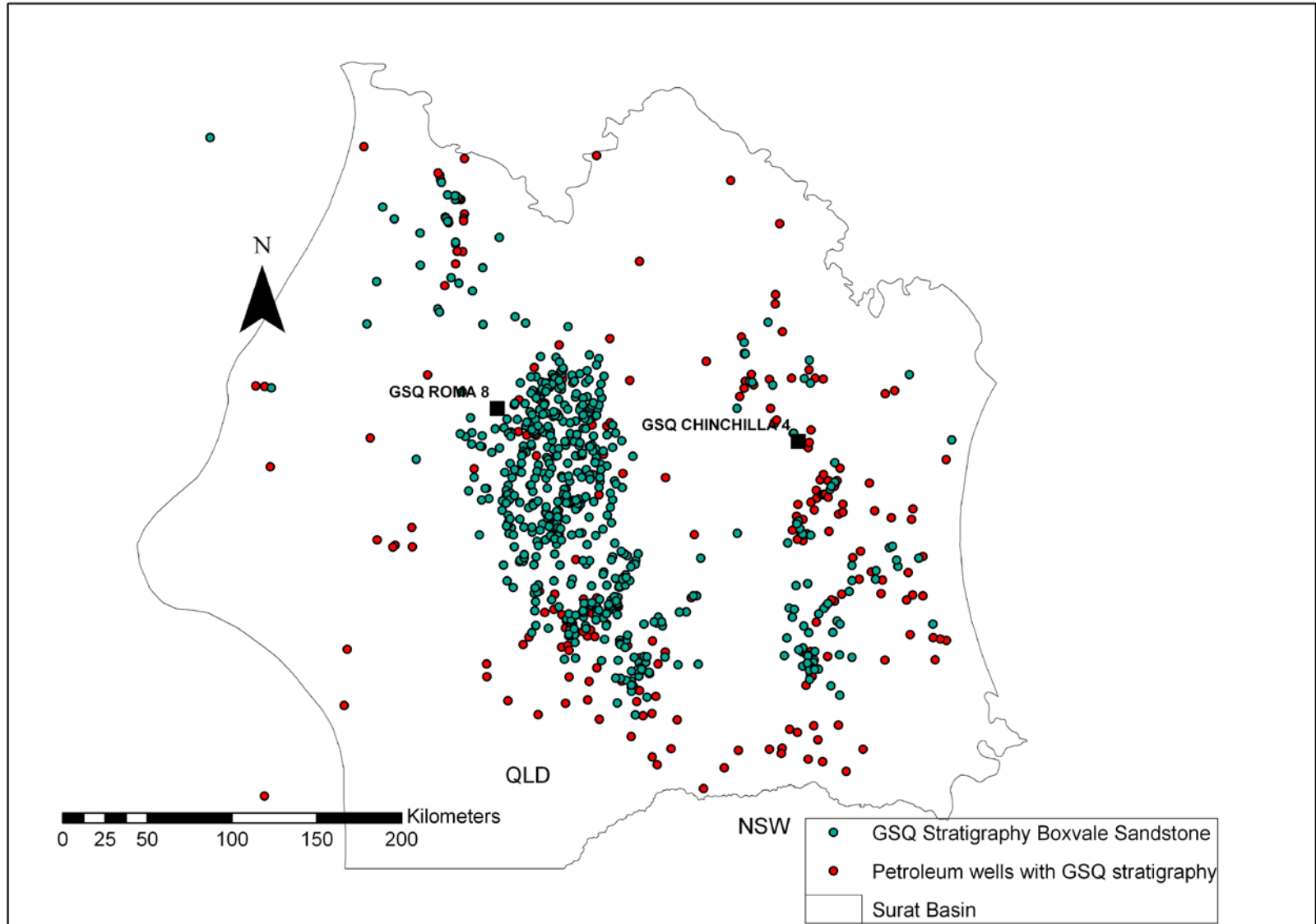


Boxvale Sandstone Member





Current Boxvale Sandstone Member picks in Surat Basin





Conclusions

- Discussed formation picking methodologies for the Precipice Sandstone-Evergreen Formation boundary.
- GSQ Roma 8 sequence stratigraphic determination and how it relates to GSQ Chinchilla 4 and the importance of the Westgrove Ironstone Member as an isochronous unit
- Overview of the sequences and have questioned the Boxvale Sandstone Member's presence on the Roma Shelf.