Amadeus Basin

key points

• Neoproterozoic to Devonian age
• 170,000 km²
• Currently producing oil and gas basin
• Very few wells away from existing fields
• Largely untested unconventional potential
• 95 development and appraisal wells
• 41 exploration wells
• Over 11,000 km² 2D seismic acquired to date

main industry players

Santos Ltd, Central Petroleum Ltd

geology

Complex and extensive Neoproterozoic to Devonian basin up to 14 km in thickness, containing numerous petroleum systems, with production to date coming from an Ordovician system. Strongly influenced by halotectonics and intracratonic deformation.

production

Continual production since 1983, from Mereenie and Palm Valley fields (total production to date of 400 Bcf gas, 17 mmbbl oil). Production from the Surprise oil field commenced in 2014, but has been temporarily shut-in since August 2015. Field development for the Dingo gas field was completed in 2015

recent discoveries


current activity (2015–2016)

Production commenced at Dingo gas field. 1300 km of 2D seismic planned in southern part of basin.

unconventional potential

Horn Valley Siltstone is a major shale gas target with Best Estimate Recoverable Resource of 16 Tcf dry gas (AWT 2013). Numerous other untested unconventional targets within basin.

conventional potential

Numerous untested structural and salt-related plays within basin.

Google Earth image of central Amadeus Basin, displaying the structural style within the basin.


www.minerals.nt.gov.au/ntgs
Amadeus Basin: location of seismic lines and petroleum wells

(a) Location of petroleum wells and (b) seismic lines in Amadeus Basin. Base maps derived from GA 1:1M geology and NTGS 1:2.5M geological regions GIS datasets.

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