

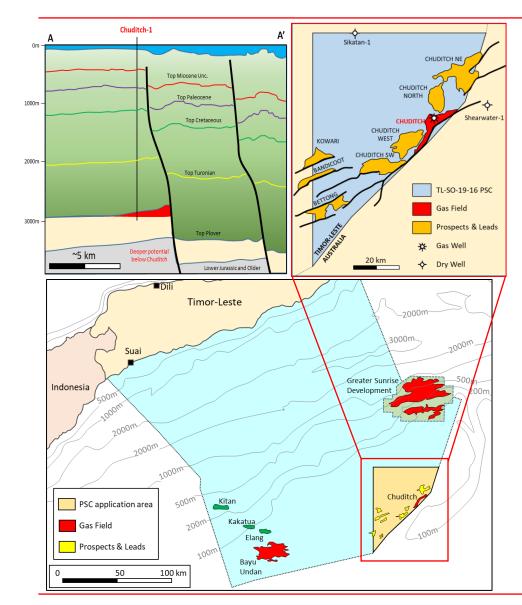


Colin Murray, VP Technical



TL-SO-19-16 PSC: Background and Overview

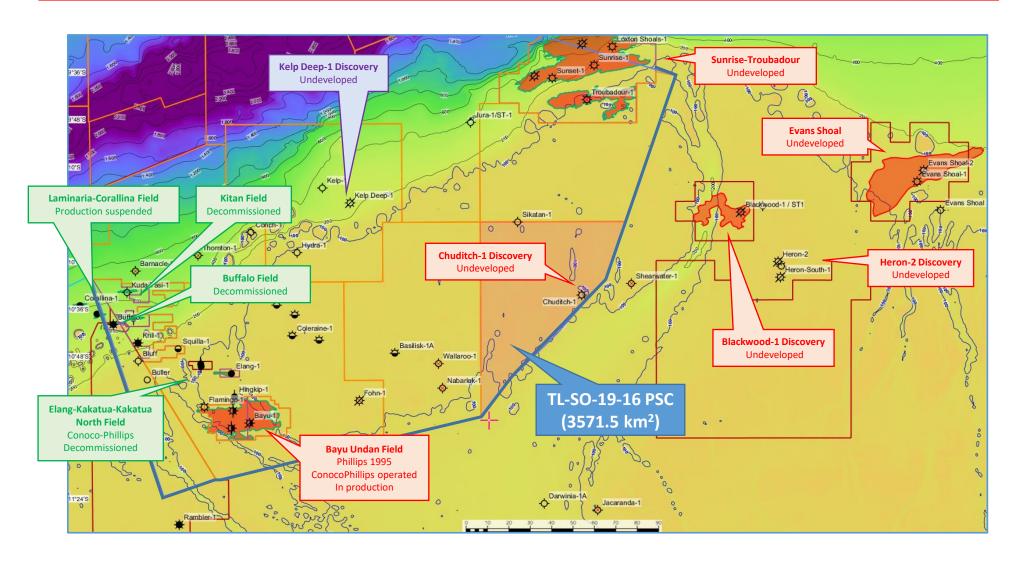




- SundaGas is a Singapore-based E&P company with interests and experience across SE Asia
- Investigating Timor-Leste opportunities over a long period and first applied for PSC in 2016
- TL-SO-19-16 PSC signed on 8 November 2019 and is the first new PSC offshore Timor-Leste following the new Maritime Boundary Agreement in August 2019
- SundaGas is operator with 75% WI, partner TIMOR GAP has 25% (with a carry to first gas)
- The PSC lies in water depths of 50-80m, east of Bayu-Undan and south of Greater Sunrise
- The Chuditch gas discovery was drilled by Shell in 1998 and is the key feature of interest

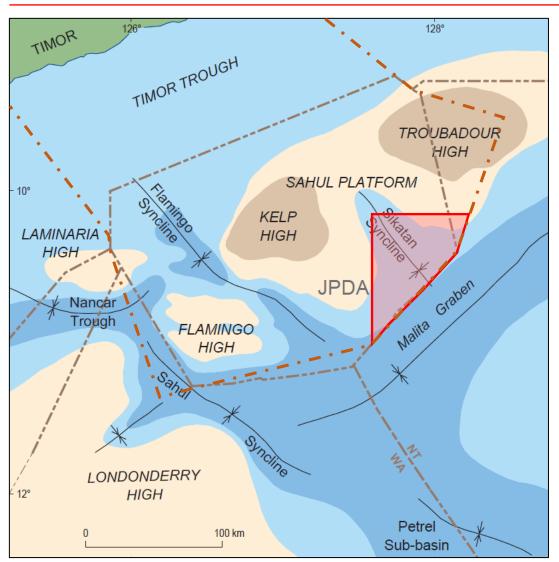
Timor Sea Bathymetry, Oil and Gas Fields

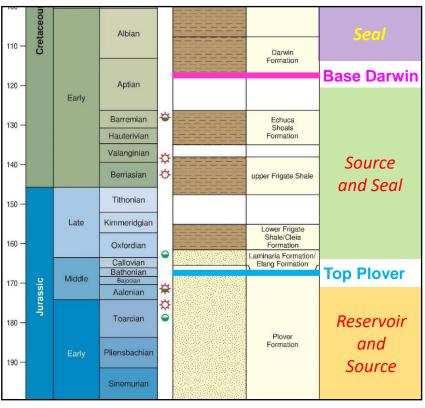




Structural Elements and Stratigraphy

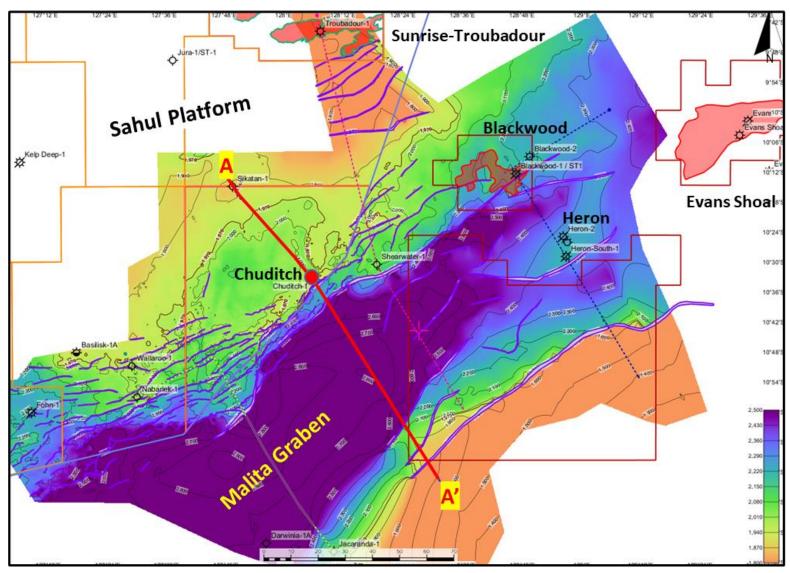






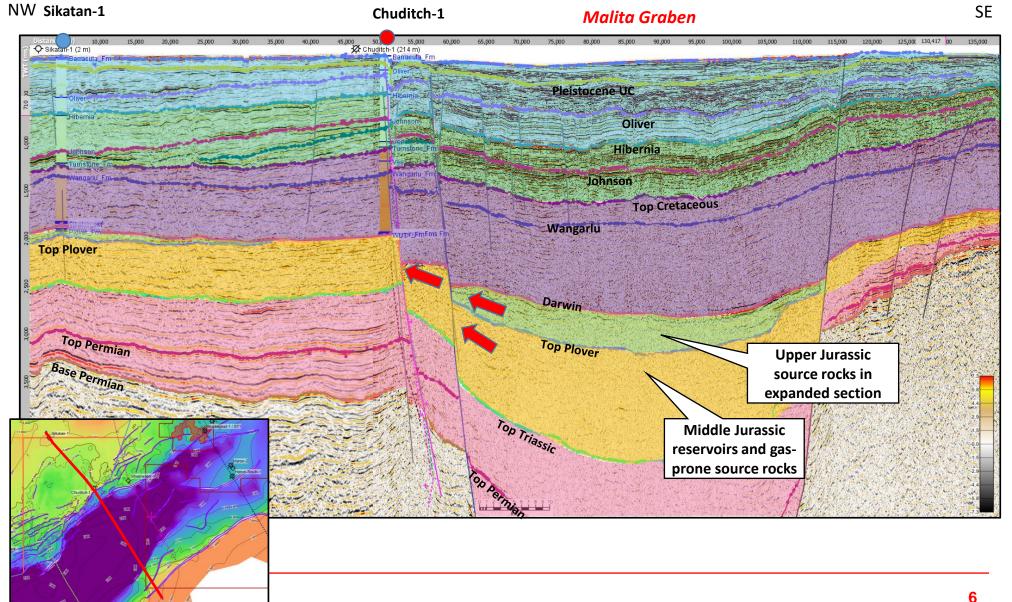
Semi Regional Structure Map on Darwin Horizon (TWT)





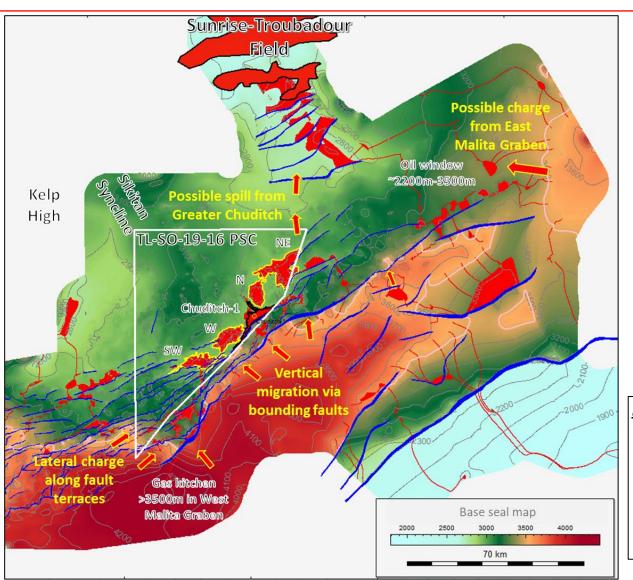
Chuditch – Malita Graben Regional Composite Seismic Tie





Chuditch Ideally Located for Significant Gas Charge





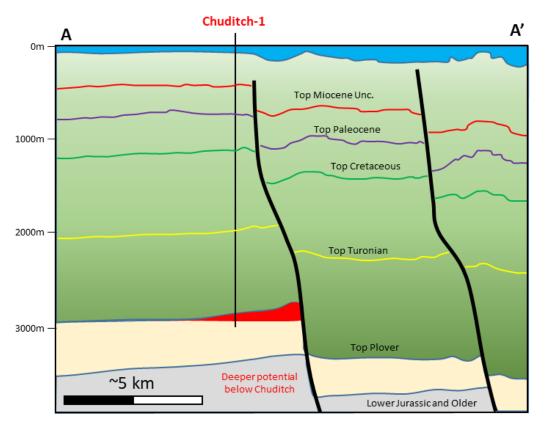
Modelled migration pathways illustrate likely Chuditch charge from adjacent Malita Graben and spill towards Sunrise-Troubadour

Notes

- 2D mapping extrapolated beyond mapped limits
- Simple depth conversion used time/depth relationship from sea level to base seal in Chuditch-1
- Gas expulsion window at vitrinite reflectance
 ~1.2 loosely defined by pink contour at ~3500m
- Provides a simple guide to present-day migration

The Chuditch-1 Discovery

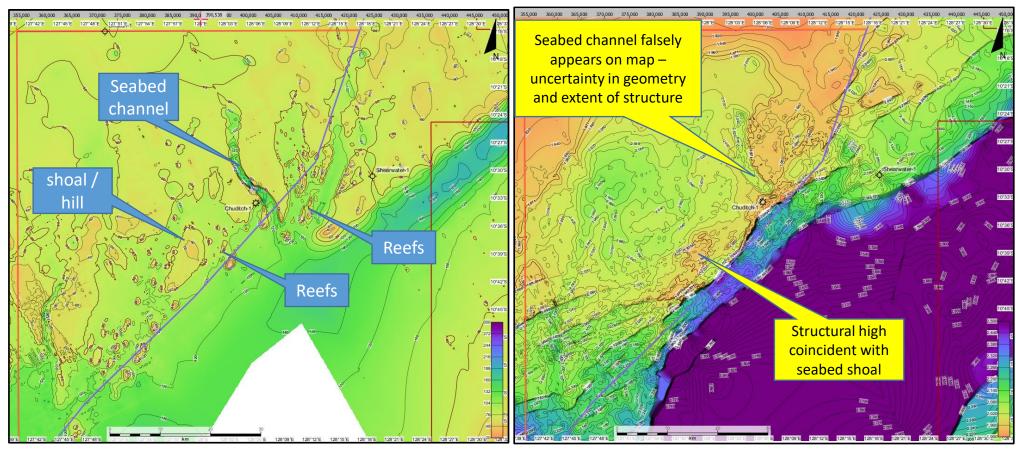




- Chuditch-1 drilled by Shell in 1998
 - 65m water depth, TD 3035m, well drilled in only 13 days
 - >25m gas encountered, considerably below mapped crest of structure
 - Good quality Jurassic Plover Formation reservoirs encountered
 - Best case discovered resource of ~700 Bcf
 - Significant uncertainty around mapping of Chuditch structure, which impacts expected resources and the location of future appraisal wells

Seabed features seen on Darwin TWT structure



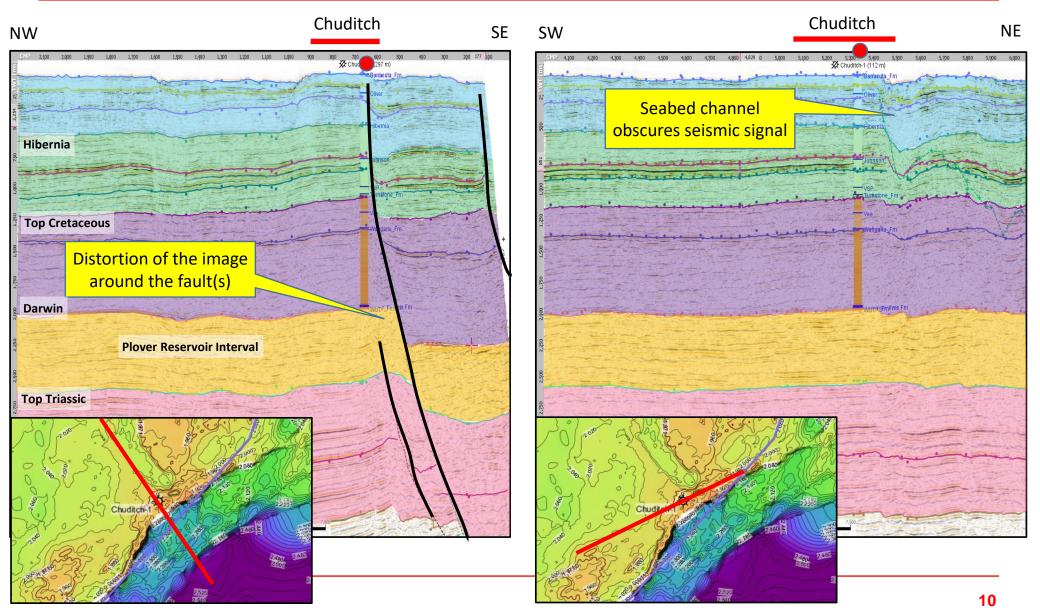


Seabed Bathymetry Map

Darwin TWT Map

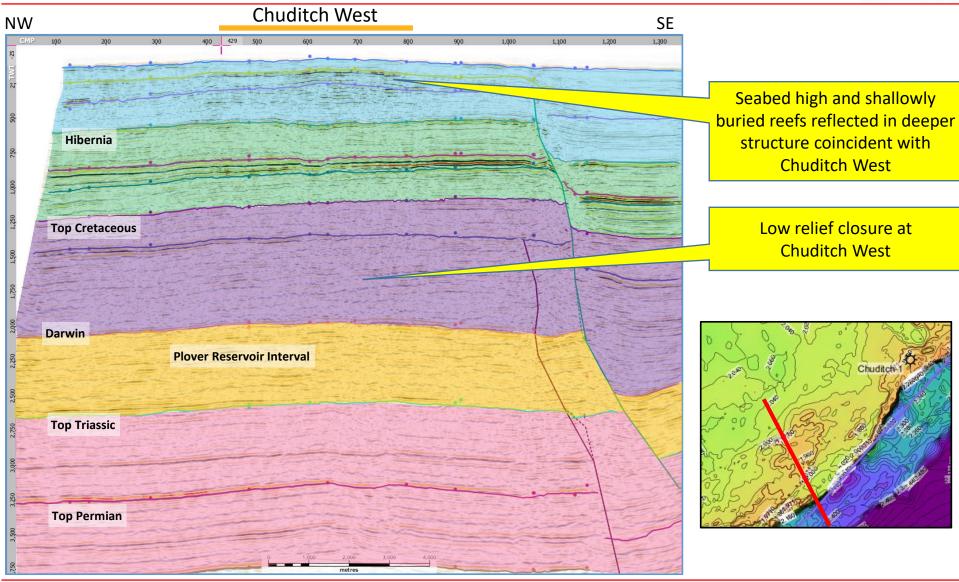
Seismic Illustration of Chuditch (Dip and Strike Lines)





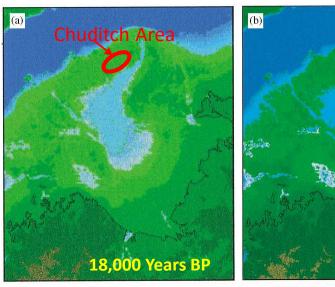
Seismic Illustration of Chuditch West

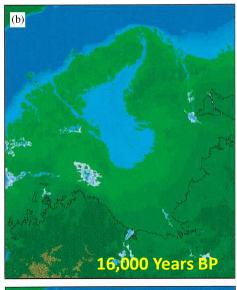




Geological Reason for Seabed Anomalies







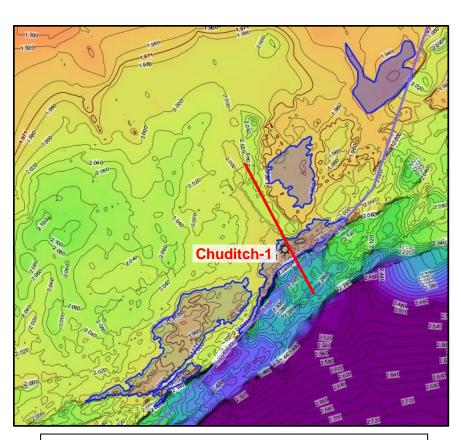
12,000 Years **BP**



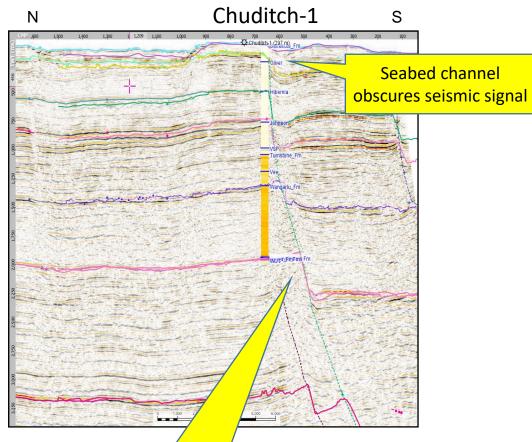
- During the last ice age, around 18,000 years ago, sea levels were up to 120m lower than today
- The Bonaparte Shelf was a land area with a large brackish lake occupying the central Bonaparte Depression.
- The Chuditch area lay on the north side of the lake – the channel was a river valley draining south east into the lake
- As sea levels rose, the Chuditch area became a shallow marine shelf with reef formation on the drowned landscape

Why do PSDM Depth Reprocessing? Chuditch Uncertainties from Seismic Imaging





As a long narrow field set up by a key fault, mapping is subject to key uncertainties around structural shape and size

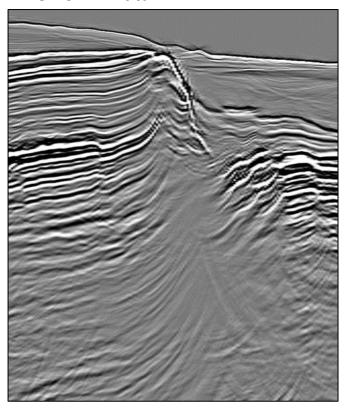


Distortion of seismic image around fault(s) produces uncertainty in mapping reservoir and gas zones

Why do PSDM Depth Reprocessing? Vietnam Case Study

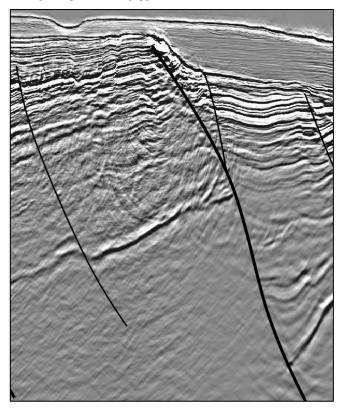


Pre-PSDM Data



Very poor definition of fault and sequences close to fault

Final PSDM Data



Excellent definition of fault and sequences close to fault

SundaGas Go Forward Plan

✓ Establish Dili office

✓ Preliminary technical review



PSC Commitment Work Programme

P3C Commitment Work Programme		
Contract Years	<u>Periods</u>	<u>Wells</u>
1	Phase One Firm	800 km2 of 3D PSDM reprocessing 2,000 line km of 2D reprocessing
2		G&G studies
3	Phase One Contingent	One Appraisal Well
4	Phase Two	One Exploration Well
5		G&G studies Development scenario planning
6	Phase Three	One Exploration or Appraisal Well
7		One Exploration or Appraisal Well

- Work programme designed to extract most value from existing seismic, to ensure successful early appraisal and step-out drilling
- Likely to drill several wells back-to-back in first drilling campaign

Initiation (complete) **Preparation Phase** First Drilling Phase ✓ Ratification of maritime Detailed Well planning and 3D PSDM seismic reprocessing boundary treaty (30 Aug 2019) design 2D seismic reprocessing ✓ Sign PSC (8 Nov 2019) Procurement Initiate training plan ✓ Sign JOA (27 Nov 2019) Environmental and other Revised seismic interpretation regulatory approvals ✓ PSC Effective (19 Dec 2019)

■ Integrate all subsurface work

Define drilling locations for

appraisal and exploration

Establish HSE plans / processes

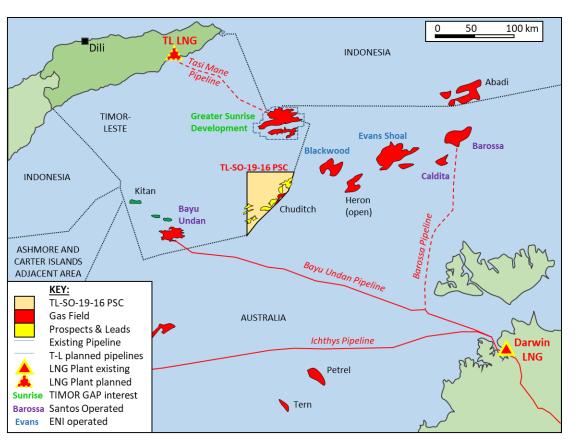
Site investigation

exploration wells

Spud appraisal and step-out

Timor Sea Gas Infrastructure and Commercial Context





- Bayu Undan (BU) supplies gas to Darwin LNG, critical infrastructure for Timor-Leste
- TIMOR GAP acquired 56% of Sunrise and plans to develop Tasi Mane LNG
- Santos acquired BU and Barossa from ConocoPhillips and reportedly plans to extend BU field life
- Santos is onselling positions to SK E&S and Jera (Barossa)
- ENI reported to be selling Australian gas assets, including Blackwood and Evans Shoal, and stakes in Bayu Undan and Darwin LNG

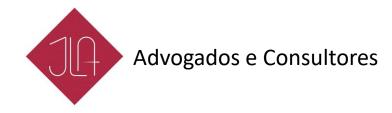
Our Business Partners in Timor-Leste











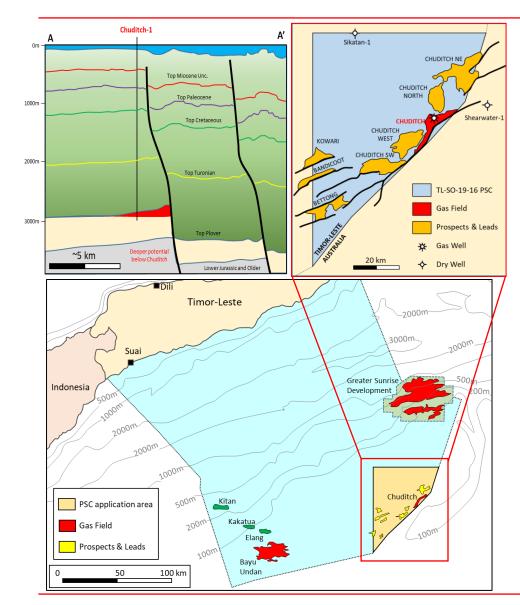






TL-SO-19-16 PSC: Summary





- SundaGas sees exciting potential in the Chuditch gas discovery and its adjacent exploration features
- Initial works are planned to address key technical issue of subsurface imaging
- Drilling scheduled for 2022, subject to successful completion of 3D seismic reprocessing, will test this potential and hopefully move Chuditch gas towards development