



Instituto do Petróleo e Geologia – Instituto Público
(IPG)

4th IPG International Geosciences Conference on

Timor-Leste Geological Data and Information for Economic Diversification and Development

Dili 23-26 October 2018

Note Taker's Document

Date: Oct 24th, 2018

Time: 10.55

Conference Day: 2

Venue: CCD

Conference Speaker: **Maria Guterres (Timor Gap)**

Presentation Title/Topic: **THE GEOLOGY AND PETROLEUM POTENTIAL OF ONSHORE BLOCK C (BETANO AND SAME AREA)**

Presentation Notes	Q&A
<p>The Onshore Block C petroleum exploration area (PSC TL-OT-17-09) extends from north of Samé town to the south coast of Timor-Leste east and west of Betano village. As with Block A (Suai area), the PSC is operated by Timor Resources in 50:50 partnership with TIMOR GAP.</p> <p>We have produced a new geological map of the entire Block C area at a nominal scale of 1:100,000.</p> <p>This shows many features in common with the previous mapping, but also some notable differences:</p> <ul style="list-style-type: none"> • Extensive development of the Permian Maubisse Formation in the SW of the block (no Maubisse Formation was shown in this area on Audley-Charles's map). • Extensive outcrops of the Cretaceous-Paleogene Haulasi Formation on the southern slopes of the Bubususo metamorphic massif north of Samé. • A small exposed volcanic/clastic succession east of Samé that is probably correlative of the Paleogene (?) Barique Formation (based on an apparent stratigraphic position between the Haulasi Formation and the Eocene Dartollu Limestone). This succession needs future detailed study. <p>Five primary exploration leads were identified prior to the new fieldwork, three corresponding to large Bouguer gravity lows (interpreted pre-fieldwork as potentially corresponding to inversion anticlines) and two intervening gravity highs (potentially horst blocks between the inverted basinal lows).</p>	<p>N/A</p>

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JR



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Our fieldwork significantly downgraded the western structure because, although it was correctly identified from remote sensing data as an anticline, the core is breached down to the Permian Maubisse Formation. The western of the two horst block highs was also breached to basement, so this structure can also be discounted. However, the two remaining gravity lows remain strong candidates for potentially large and prospective inversion anticlines.

In particular our mapping indicated a domal structure associated with the central gravity low, in an area where several natural oil seeps are also known.

Furthermore, our fieldwork also identified a new anticlinal structure in the Aiassa river to the SW of Samé, and this may form a further exploration lead to be assessed by vibroseis seismic due to be acquired across the block in late 2018.

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JR