



Instituto do Petróleo e Geologia – Instituto Público  
(IPG)

4<sup>th</sup> 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 24<sup>th</sup>, 2018 Time: 14.20 Conference Day: 2  
 Venue: CCD Conference Speaker: **Mateus da Costa, ANPM, Timor-Leste**  
 Presentation Title/Topic: **Maturing Ones Understanding on the Timor-Leste Onshore Petroleum and Mineral Resources Potentials Through an Application of an Integrated Airborne Geophysical Surveys.**

Presentation Notes	Q&A
<p>An Integrated Airborne Geophysical Surveys (IAGS) utilizing four different airborne geophysical methods such as gravity, magnetic, radiometric, electromagnetic and gravity-gradiometric surveys to map out the distribution of the potential petroleum and mineral resources, as well as to mature our understanding on the existence of such natural resources.</p> <p>This paper is going to discuss about the importance of geophysical data and its application in mapping out the distribution of petroleum and mineral resources within the onshore Timor – Leste area. The paper will focus more on how and why the four different types of geophysical survey methods such as Airborne Gravity, Magnetic, and Radiometric, Electromagnetic as well as Gravity gradiometric survey data were chosen for the case to be used for mapping out the petroleum and mineral resources potential in the onshore territory of Timor-Leste.</p> <p><b>Conclusions:</b></p> <ul style="list-style-type: none"> <li>• IAGS as the First Integrated Geophysical Survey in Timor Leste</li> <li>• First Generation of Integrating the Geophysical and Geological information to map out Petroleum and Mineral resources in Timor Leste</li> <li>• Capacity Development:</li> <li>• Mobilizing most of the senior experts with highly</li> <li>• Knowledge transfers – young geologists and geophysicists</li> </ul>	<p><b>1. Lukas</b>  <b>Institution: DIT</b>  <b>Question:</b> From the several geophysical methods that integrated in this Airborne Geophysical survey, which one is qualified method to identifying the geological resources in the onshore part?  <b>Answer:</b> Airborne Geophysical survey was integrated by several geophysical methods such as Magnetic, Gravity, Gravity Gradiometric, and Radiometric. These several methods that conducted in the Airborne Geophysical survey were mapping difference information based on the physical properties such as to obtain the rock densities, metallic minerals quantities, and several radioactive identifications such as Uranium, Thorium and Potassium. These physical properties that mapped will utilize to define the zone of interest (ZOI) in the geological resource's exploration.</p> <p><b>2. Diva Cabral</b>  <b>Institution: IPG</b>  <b>Question:</b> Except the geophysical data information, is its other related information that</p>

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	<p>gathered during Airborne geophysical survey implementation? And how many costs that use to spent in this survey?</p> <p><b>Answer:</b> Airborne geophysical survey only acquired the Geophysical data information which is using Fixed wing and the Helicopters to carry the geophysical instruments during the acquisition. In the early proposal for this survey was propose totally costs about 26 million dollars for the survey implementation, but, after passed several issues during the survey activities the budget that will be spending is only around 22 million dollars, and the Authority is successfully to save 4 million dollars from early budget.</p> <p><b>3. Augusto Doutel</b></p> <p><b>Institution: UNDIL</b></p> <p><b>Question:</b> Mais ou menus to agora, husi implemetasaun studos hirak nee, Timor iha reservatorio hamutuk hira?</p> <p><b>Answer:</b> Studos esplorasaun petroleo la fasil atu halo em termus de oinsa define area prospektividade no area prospeito ba potencia petroleo. Studos hirak nee compostu husi area no metodu oin – oin tamba nee iha nia prosesu studos presija tempo atu define no kalkula reservatoria ka fatin akumulasaun petroleo.</p>
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	<p><b>4. Delio</b></p> <p><b>Institution: USJTL</b></p> <p><b>Question:</b> Mais ou menos akurasaun husi Airborne survey ne'e oinsa?</p> <p><b>Answer:</b> Airborne Geophysical survey nebe dadaun ne halao hela ho objetivo katak rejultado husi mapamento propriedade geofijika ida nee liu-liu ba area mineral metaliko nian, nudar base de dados hodi bele define area no zona interesante ba potencia okurensia mineral metaliko nian. Informasaun hirak nee sei applika durante faje esplorasau ba studo detalho tuir mai nebe define ona husi informasaun nebe hetan husi Airborne geophysical survey.</p> <p>Alem de ida nee, em termos de administrativamente, survey ida nee fasil atu halao iha tempo nebe badak kompara ho survey terreno nian relasiona ho kondisaun topografia Timor nebe ho terrenu ke susar tebes.</p>
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