



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: 25 / 10 / 2018

Time: 10.35

Conference Day: 3

Venue: CCD

Conference Speaker: **Job Brites dos Santos (IPG)**

Presentation Title/Topic: **Geology and Preliminary Mineral Prospecting in Atauro Island, Timor-Leste.**

Presentation Notes	Q&A
<p>*Atauro is a volcanic island which is interesting to study.</p> <p>*Since 1956 geologists from some country have been conducted their geological research with various topic which is starting from the study of petrography, rock geochemistry and tectonic evolution. However, no one has talked about the relationship of these with mineral resources.</p> <p>*This is the main reason that motivated me to do the research with a focus on the relationship between geological characteristics with mineral resources on the island.</p> <p>*The research conducted by IPG in 2016 is considered enough to explain the geological conditions on the island. A geological map with a scale of 1: 50,000 is produced through this research. However, to find out more detail about the relationship between geological conditions and the availability of mineral deposits on this island, we must conduct further study such as conducting detailed geological mapping in order to produce a geological map with a scale of 1: 25,000, where the distribution of altered rocks and quartz veins can be observed. Another important thing to do in order to find out the out the mineral deposit existence on this island is to do detailed mineral prospecting such as collect stream sediment samples which later to be used to analyze the mineral grains and geochemical analysis. Other laboratory analyzes required are XRD analysis, geochronology and mineral fluid inclusion analysis. Through all of this, we expect to be able to find out the favorable area of mineral deposit on this island. This work is a part of</p>	<p>Name :-</p> <p>Institution : DIT</p> <p>Questions: As you explain that you found volcanic rock in Atauro, however as we know there's no volcanic activity in Timor Island so how to explain the presence of volcanic rock in Atauro island?</p> <p>Answer: Volcanic rock in Atauro was produced by volcanic activity which is happen in 3.5ma to form the Atauro Island. Presently there is no activity anymore because it was stopped 3ma due to the slab tear of the lithosphere beneath Timor Island.</p>

Note Taker's Name: LP



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my PhD project.	
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