



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: 24/10/2018

Time: 03:12

Conference Day: 2

Venue: CCD

Conference Speaker: Jose Nano (UPG-IPG)

Presentation Title/Topic: **Petroleum System Elements Evaluation in Laga and Baguia Areas.**

Presentation Notes	Q&A
<p>*Estudu ida ne'e hanesan estudu kontinuasaun ne'ebe Unidade Petroleo no Gas (UPG) halo iha tinan 2017 to 2018.</p> <p>*Estudu evaluasaun elementu sistema petroleo ida ne'e hanesan parte ida husi estudu rekursu hidrokarbonetu hodi halo evaluasaun ba estudu jeolojia regional inklui ninia prospektu iha area estudu rasik.</p> <p>*Estudu ida ne'e kobre iha area Laga no Baguia, Municipiu Baucau.</p> <p>*Dala barak Ita koalia oinsa mak ita buka Mina? No dalabarak mos ema dehan mina iha ne'e no mina iha neba?</p> <p>* Ho ida ne'e ami (UPG) halo konklujazaun badak katak waihira Ita atu hatene Ita nia riku soin Mina ita precisa liu husi estudu ou faze 4 mak hanesan tuir mai ne'e:</p> <ol style="list-style-type: none"> <li>1. Evaluasaun Jeolojia Regional,</li> <li>2. Identifika elementu husi sistema petroleo ne'e rasik,</li> <li>3. Estudu 3G katak estudu Geologia, <i>Geophysics</i>, no estudu <i>Geochemistry</i> (Analiza laboratoriu),</li> <li>4. Ikus liu mak estudu ida naran Analiza Basia (<i>Basin analysis</i>)</li> </ol> <p>* Objektivu husi estudu ne'e iha 4 mak hanesan :</p> <ol style="list-style-type: none"> <li>1. Atu identifika no mos hatene elementu husi sistema petroleo ne'e rasik</li> <li>2. Estudu ida ne'e hanesan faze dahuluk mai UPG atu halo esplorasau ba hidrokarbonetu</li> <li>3. Halo evaluasaun jeral ba geolojia regional iha area Laga no Baguia</li> </ol>	<p><b>1.Name: JORGE</b> <b>Institution: UNITAL</b></p> <p><b>Question/Clarification:</b> <i>Limestone</i> mineral hira mak kompostu iha laran, no utiliza ou uja ba saida deit ?</p> <p><b>Answer :</b></p> <p>* Wainhira ita koalia kona ba limestone ntao mineral ne'ebe mayoria kompostu husi limestone ne'e rasik mak mineral <i>Dolomite</i> no <i>Calcilutite</i>.</p> <p>*<i>Limestone</i> ne'ebe ita hetan utilija ou uja ba saida : Ami (UPG) rasik seidak iha rezultadu laboratoriu ne'ebe bele dehan fatuk ne'e bele sai ba <i>source rock</i> tanba analiza refere sei iha prosesu nia laran, maibe ami fiar kata iha tempo badak ami bele fo resposta liu husi rezultadu analiza laboratoriu ne'e rasik.</p>

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4. Sai hanesan baze de dadus ida ba UPG-IPG no mos ba Ministerio ne'ebe relevante.

\* Metodolojia husi estudu ida ne'e rasik fahe ba 4 mak hanesan :

1. Faze preparasaun
2. Faze estudu kampo
3. Faze Laboratorium
4. Faze Final

Maibe to oras ne'e, ami nia estudurefere foin mak atinji iha faze labororium.

\* Husi Mapa geologia Regional ne'ebe husi Audley Charles hatudu katak maioria area estudu (area Laga no Bagueia) domina ho *limestone* no Bobonaro kompleksu.

\* Iha estudu ida ne'e mos ami halo estudu Morfolojia uja metodu *remote sensing*, uja dadus *LIDAR 1*. Bazeia ba ami nia estudu ami fahe morfologia area estudu ba parte 4 mak hanesan tuir mai ne'e:

1. *Fatus & Limestone hills*
2. *Fluvial*
3. *Marine Terrase*
4. *Valu*

\* Bazeia stratigrafia husi area estudu,ami fahe tipu fatuk ba 8 mak hanesan :

1. *Coral limestone*
2. *Marl/Chalky limestone*
3. Melange fahe ba 2 mak hanesan (*Broken formation & scaly clay*)
4. *Massive limestone*
5. *Intercalated limestone & shale*
6. *Intercalated sandstone & shale*
7. *Volcanic and volcanic clastic*
8. *Crinoidal limestone*

**2.Name: AMOS DE FATIMA**

**Institution: UNTL**

**Question/Clarification:** Ohin ita esplika kona ba estrutura jeolojia ne'ebe esiste iha area estudu, iha ne'e hau hakarak husu deit :

- Tipu husi dobra ne'e ninia direasaun na iha ne'ebe?
- Falha refere ninia orientasaun parallel ho dobra ne'e klae?

**Answer:**

- Bazeia ba ami nia observaun iha kampo, ami hetan duni estrutura jeolojia balun ne'ebe eziste iha area estudu hanesan Dobra ho tipu *Overtuned* no bazeia baa mi nia interpretaun katak dobra ne'e rasik iha relasaun ho *thrust fault*.
- *Normal fault* ne'ebe ami hetan dalabarak nia koa tiha dobra ne'e maibe dalaruma *normal fault* ida ne'e ita bele interpreta hanesan *intercolapse*.
- Atu hatene diak trapu ou migrasaun ne'ebe relevante ita precisa halo estudu klean liu tan hanesan estudu GnG (Estudu Geologia no Geophysics).

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\*Bazeia ba ami nia estudu ami fahe sandstone ba tipu 3 mak hanesan :

1. *Shale & Chert*

2. Chert interkalasaun ho *black shale*

3. *Sandstone*

\* Baseia ba ami nia estudu ne'ebe ami halo liu husi remote sensing no observasaun direita iha kampo katak estrutura geolojia iha area estudu dominate husi *Fault* no *Normal Fault*.

\* Elementu husi sistema petroleo ne'ebe UPG foin deskobre mak : *Source rock*, elementus sira seluk sei iha etapa estudu tuir mai.

\* Baseia ba ami nia estudu, ami fahe *shale* ba 3 mak hanesan :

1. *Thick Shale*

2. *Shale* ne'ebe kamadas ho *limestone*

3. *Shale* ne'ebe kamadas ho *chert*

\* Iha amostra *shale* ne'ebe kolekta husi area estudu, amostra *shale* ne'ebe iha ona rezultadu laboratorium mak amostra *shale* husi Laga, amostra *shale* iha Baguia sei iha faze prosesu ba halo analiza.

\* Bazeia ba analiza *TOC (Total Organic Matter)* no *Pirolisis* amostra shale (MT-23 LG) hatudu katak excelentu ba *source rock*.

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