



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: 15.30

Conference Day: 2

Venue: CCD

Conference Speaker: **Lucia dos Santos, Instituto do Petróleo e Geologia (IPG)**

Presentation Title/Topic: **Geochemistry Study of Black Shale in Baguia and Laga Areas.**

| Presentation Notes | Q&A |
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| <p>The Geochemistry study is based on the chemical principles to determine the composition of hydrocarbons in the potential sedimentary units such as black shale.</p> <p>The purpose of this study is to identify the organic content by using Total Organic Content (TOC) and Rock Eval–Pyrolysis methods, the depositional environmental and organic material origin using Gas Chromatography and Gas Chromatography – Mass Spectrometry methods as well as organic petrography analysis to describe the level of kerogen maturity through the Vitrinite reflectance (Ro) and Thermal alteration Index (TAI).</p> <p>Based on the result of geochemical analysis for MT 23 sample shows that:</p> <ul style="list-style-type: none"> • TOC of MT 23 categorized as Excellent(11,44 %) • Rock Eval – Pyrolysis from S1 (0,52) mg/g and S2 44,60 mg/g • Thermal alterations index (TAI) show that the kerogen categorized as oil prone Type II • The level of maturity of this sample is immature Tmax 416⁰C • Gas Chromatography fingerprints of MT 23 dominant at even carbon anoxic depositional environments with source input from marine algae . | <p>Name: Eduardo Institution: UNTL</p> <p>Question: Amostra nebe hodi analija geokimika hola parte husi Formasaun saida no oinsa kondisaun superficial iha area kolekta amostra refere?</p> <p>Answer: Amostra refere nebe utilija ba analija TOC mai husi unidade fatuk Arjila metan maibe infelizmente seidak bele define unidade fatuk refere hola parte husi Formasaun ida nebe tamba seidak konsege halo estudo Biostratigrafia ba amostra ka unidade fatuk refere. Kondisaun superficial ba area nebe hodi kolekta amostra MT 23 geolojikamente <i>expose</i> iha rai leten, iha possibilidade ho rajaun ida ne'e afeita ba level maturidade husi amostra refere sei <i>immature</i>.</p> |

Note Taker's Name:

JR