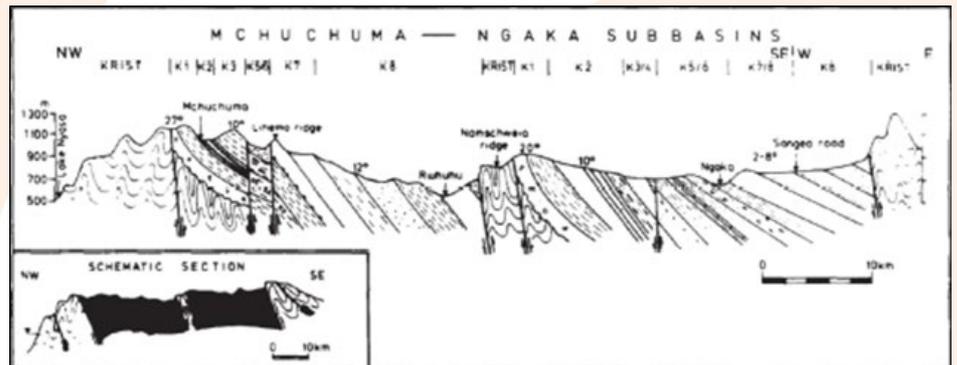


UNCONVENTIONAL POTENTIAL PHASE 1 CASE STUDY

Jacka Resources
Ruhuhu Basin, Tanzania

AWT DISCIPLINES

Geology
Geophysics
Reservoir Engineering
Petrophysics
Resource Assessment



PROJECT BACKGROUND

AWT was engaged by Jacka Resources Limited (Jacka) to conduct a preliminary review of the data inventory of the Ruhuhu Basin, Tanzania - an area of approximately 150 kilometres in length and up to 35 kilometres wide (Phase 1 of the project). Coal mining and exploration has been conducted for at least 60 years. In more recent times, commodities such as coal, uranium, and coal seam gas / coal bed methane have been the focus of exploration efforts.

Location:
Tanzania

AWT WORKSCOPE

Phase 1 of this project was to conduct an overall review and commentary on open file data, assess the Ruhuhu Basin data for CSG and Shale Gas data in existence, and identify missing or required data for comprehensive evaluation.

CSG potential reviews would historically collate the following components of a basin, project area, or area of interest:

- Determine Coal Area
- Coal Depth and Thickness
- Net Coal and Ash Contents
- Coal Density
- Gas Content (Q1, Q2, Q3)
- Gas Composition
- Gas Isotopes, Saturation and Methane Isotherms
- Maceral and Vitrinite Reflectance
- Gas in Place Estimate
- Permeability
- Well Performance and Producibility
- Resource / GIP calculations

AWT ADDED VALUE

AWT advised after the data that a more in-depth interpretation study would be appropriate. Exploration data and studies reviewed to date showed that acquisition of more detailed information across the broader Ruhuhu Basin is required.

A detailed basin-wide geological model needed to be derived from mineral and coal company exploration data and information, combined with broad geological surveys and mapping dating back to 1956, university and industry research and depositional studies, and broader basin-wide gravity and magnetic surveys.

UNCONVENTIONAL POTENTIAL OF TANZANIA PHASE 1 CASE STUDY

Jacka Resources
Ruhuhu Basin, Tanzania

AWT DISCIPLINES

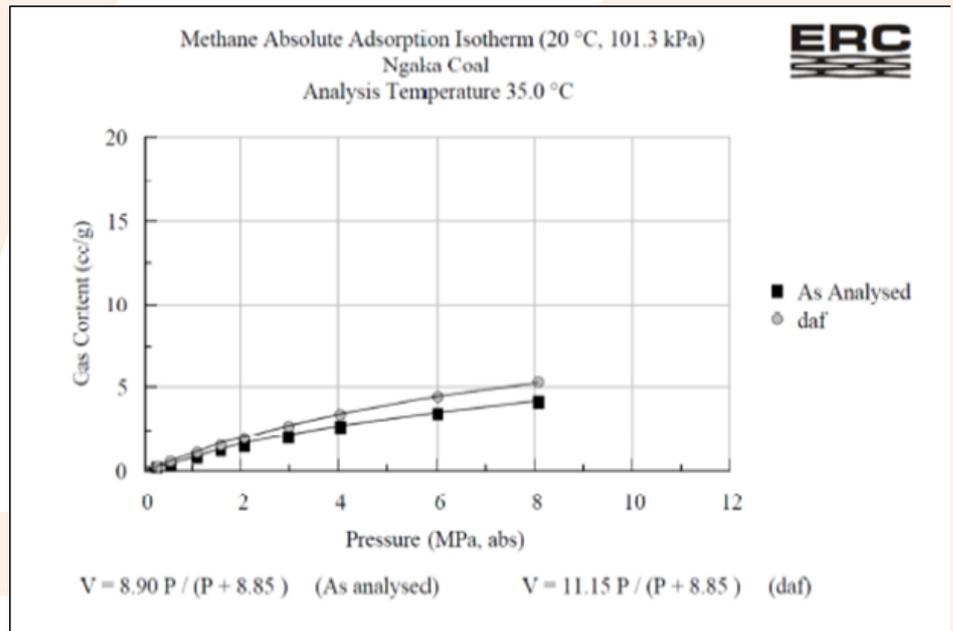
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Location:
Tanzania

For more information contact:
Tel: (+603) 2162 3127 or visit our
website at: www.awtinternational.com



Prior to any interpretations, AWT suggested the following:

- Integration of all available data
- Compilation of a basin-wide geological and formation model
- With the existing dataset, AWT suggested a review and generation, where possible, of:
 - A broad basin model, including structural geometry
 - Coal Area maps
 - Coal Depth and Thickness maps
 - Coal parameter ranges
- Proposed future work program

