Neural Network Application for Frontier Exploration: East/Central African Rift Example

Valentina Baranova[1], Azer Mustaqeem[1], Francis Karanja[2], and Danson Mburu[3]
[1]*Petro-Explorers, Inc., Calgary, Canada*
[2]*Milestone Consultants, Ltd., Nairobi, Kenya*
[3]*Seismo Service Ltd., Nairobi, Kenya*

Abstract

Application of advanced methods of Reservoir Characterization for frontier exploration area (East African Rift basins specifically South Anza Basin, Kenya) is discussed. Lack of adequate geological and seismic data limits the use of conventional geological and seismic interpretation. However, application of neural network, especially chimney analysis on vintage dynamite seismic data of reasonable quality has led to mitigating risk of exploration and identifying new targets.