

Palynofacies implications of Abu Abu Gabra Formation, Neem Azraq area

Emad Eldin Abdel Mahmoud Eltoun , Exploration Dept. , GNPOC.

Applying Palynofacies technique for samples from wells in Azraq-Neem area, Abu Gabra Formation (Neocomian-Barremian age) yielded three categories of palynofacies; Yellow SOM, Mixed woody palynomacerals and Black woods. Palynofacies approach with lithofacies enable to more accurate environmental appraisal and a better appreciation of sediment distribution within the reservoir sequence, environmental implications and kerogen visual analysis were interpreted; five types of the kerogen were classified based on their origin and physical characteristics. Within the formation in Neem area Paleo-depositional grading from deltaic to Lacustrine proximal and then open Lacustrine at the top of the Formation with an influence of offshore bar, prograding delta front and distributary channel. In Azraq Area the change from very near shore/ sub aerial exposed at the base to open Lacustrine at the top.