

AAPG HEDBERG CONFERENCE
“Paleozoic and Triassic Petroleum Systems in North Africa”
February 18-20, 2003, Algiers, Algeria

Detection of the subtle traps in the Bechar basin by using the seismic reflexion

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In the Bechar basin located in Algeria in the Northern west on Saharian platform, the wells drilled on the structural traps did not show commercial hydrocarbon accumulations.

Many shows and sometimes small amounts of gas were recorded in the lower and upper Devonian sandstones and also in the Lower Viséan carbonates.

The discouraging results are attributed to several reasons: the poor structural position of the wells, the migration pathways of the hydrocarbons, and sometimes the properties of the reservoirs. The actual studies in this basin show from the geochemical point of view, that the models are optimists. Enormous quantities of hydrocarbons are generated and expelled at time of structuration. The question is: where are these hydrocarbons are trapped?

We believe that large amount of hydrocarbons can have been trapped in the stratigraphic traps.

The purpose of this paper is to highlight methods to identify from 2D seismic lines (submitted to special reprocessing), and various seismic anomalies interpreted as geologic phenomena. This work shows evidence of geological features like reefs, channel or facies change and their spatial distribution. The exploration effort could be oriented towards these kind of traps.