



Subsidence analysis of the Getic Depression on Totea-Vladimir structure

Mihai-Remus ȘARAMET¹, Cătălin HAMAC¹, Ciprian CHELARIU¹

¹ "Alexandru Ioan Cuza" University of Iași, Department of Geology, 20A Carol I Blv, 700505 Iași, Romania

Abstract

The aim of the present study is the subsidence and the evolution analysis of the sedimentary basin related to the Getic Depression over the geological time and within the Totea-Vladimir structure area. In order to achieve the basin subsidence modeling, both information resulting from digging four wells on structure and a series of seismic profiles were used.

The results indicate that in the studied area, during the evolution of the sedimentary basin, there were two main periods of increased subsidence, such as Burdigalian and Sarmatian-Meotian. The first period corresponds to an extensional stage while the second one corresponds to a basin developed on strike-slip faults.

Keywords: Totea-Vladimir structure, subsidence, backstripping, Getic Depression.
