



## **The Role of Geophysics in modern deep offshore Exploration, an example from Bulgaria**

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The last twenty years have been revolutionary in the field of geophysics and the petroleum industry has made enormous progress in improving our knowledge of the subsurface from geophysical measurements prior to drilling. We present a recent example from the deep offshore of Bulgaria. There are currently very few deep offshore wells in the Black Sea and so the information we can extract from geophysical data is extremely precious in ensuring that we drill safely and optimize our Exploration program. Hence, a large amount of reflection seismic, gravity, magnetic and additional geologic data have been acquired in order to understand the subsurface structure and geologic history. In particular, we have acquired the Black Sea's largest ever 3D seismic survey (7800 km<sup>2</sup>) and 4000 km of 2D seismic lines, which serve as the backbone of our geophysical prospecting. We will show some examples of these data and detail the methodologies used to develop them into a three-dimensional geological model.

## **Ролята на геофизика в съвременното дълбоко офшорно проучване, един пример от България**

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