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Structural features of phosphate accumulations in the Gantour basin - Morocco : Application of GIS

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The Moroccan Atlantic margin raises a lot of interest because of its potential resources in phosphates. It also holds in its Mesetien part one of the largest phosphatic deposit in the world. The authors present the results of their researches on structural environments of the phosphatic sedimentary sequences in the Gantour deposit in western Morocco.
These investigations are mainly based on field data, data recorded from work done by the OCP (Office Chérifien des Phosphates) group, the interpretation of industrial seismic profiles and the application of GIS. Our aim are devoted to the apprehension of the geometry and the cinematic of these basins which are contemporaneous to the Central Atlantic Rifting, as well as the determination of the list of factors liable to the genesis of these phosphatic basins. Other data of field observations (cartography, study of structural features,...) permit to identify the general structure of the prospect. Sedimentation of phosphated deposits is strained by the presence of two wrench faulting systems oriented N20¬40E, N80¬120E and N140¬160E.