



DRILLING OIL-GAS

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**DIRECTIONS OF DEVELOPMENT
OF OIL AND GAS INDUSTRY
IN POLAND AND IN THE WORLD**

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„THE STUDY OF ROLLFRONT PROPERTIES AND FORMATION MECHANISMS BY EXAMINING URANIUM DEPOSITS IN TIAN-SHAN MEGAPROVINCE.”

The rollfront deposits is an accumulation of a mineral resource such as uranium, pyrite, selenium, molybdenum in reduced permeable sandstones (or other sediments) within a geochemical barrier between mostly reduced and predominantly oxidized environments. There are many sources, which either mention characteristics of so-called rollfront deposits or describe the geological processes of its genesis. The aim of this work is to formalize the processes leading to rollfront formation and to describe its general properties from geological, hydrodynamic and chemical perspectives by examining uranium rollfront deposits in Chu-Sarysu, Syr-Daria and Wyoming Basins. A better understanding of rollfront deposit genesis and its properties would pave the ground for higher quality modeling techniques that would decrease exploration and production costs of minerals trapped within such accumulations.