**Department of Hydrogeology, Engineering and Oil and Gas Geology**

**K.I.Satpayev Kazakh National Technical University**

**Review**

This review was provided by Kazakh Institute of Oil and Gas LLP (hereinafter – KIOG) for the Department of Hydrogeology, Engineering and Oil and Gas Geology of Satbayev University. I would like to note the close cooperation of KIOG with Satbayev University in drawing up an educational program for students and conducting industrial and postgraduate internships.

The main function of the educational program 7M07207 "Geology of oil and gas" is the formation of the following key competencies among undergraduates that a master in the field of oil and gas geology should possess: designing and conducting all types of field and research work on geological support of oil and gas fields, processing and analyzing the results of geophysical, geological and geochemical studies, [preparing](https://context.reverso.net/%D0%BF%D0%B5%D1%80%D0%B5%D0%B2%D0%BE%D0%B4/%D0%B0%D0%BD%D0%B3%D0%BB%D0%B8%D0%B9%D1%81%D0%BA%D0%B8%D0%B9-%D1%80%D1%83%D1%81%D1%81%D0%BA%D0%B8%D0%B9/preparation%2Bof%2Ba%2Breport) reports and recommendations on the results of scientific research.

The postgraduates of this educational program receive in-depth knowledge on geological exploration, formation of oil and gas source rocks, the study of lithological and [reservoir](https://context.reverso.net/%D0%BF%D0%B5%D1%80%D0%B5%D0%B2%D0%BE%D0%B4/%D0%B0%D0%BD%D0%B3%D0%BB%D0%B8%D0%B9%D1%81%D0%BA%D0%B8%D0%B9-%D1%80%D1%83%D1%81%D1%81%D0%BA%D0%B8%D0%B9/reservoir) properties in the subsurface, the methodological foundations of prospecting and exploration using well drilling materials and seismic studies. They are able to analyze and put into practice various types of geological and geophysical data for the search for minerals, to assess forecast resources and estimate oil and gas reserves, to make calculation plans for deposits.

The program includes such modern disciplines as "Oil and gas systems", "Organic geochemistry and paleobiomarkers", "Regional and local modeling of the evolution of sedimentary basins". The list of competencies obtained as a result of studying each discipline and the corresponding module is presented in the Educational program 7M07207 "Geology of oil and gas".

The postgraduate educational program "Geology of Oil and Gas" was developed in accordance with the Law on Education of the Republic of Kazakhstan, the National Qualification Framework, provided with educational and methodological materials and meets the basic requirements of professional standards. The structure of the presented curriculum is logical and consistent. The reviewed program is recommended for the preparation of postgraduates of the qualification "Master of Technical Sciences" in the direction "7M07207 - Geology of oil and gas".

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