

REPORT  
of the Dissertation Council for 2021

**Dissertation Council on specialty 6D070600 – Geology and exploration of mineral deposits and 6D075500-Hydrogeology and engineering geology, at the Kazakh National Research Technical University named after K.I.Satpayev**

Chairman of the Dissertation Council Absametov Malis Kudysovich approved by the order of the Vice-Rector for Science NAO KazNRTU named after K.I.Satpayev dated June 02.2016 #207-p.

The Dissertation Council is allowed to accept dissertations for defense specialty 6D070600- «Geology and exploration of mineral deposits»; specialty 6D075500- «Hydrogeology and engineering geology».

**1. Data of the number of meeting held.**

The Dissertation Council in the specialty 6D070600 - "Geology and exploration of mineral deposits" and 6D075500 – "Hydrogeology and engineering geology" held 1 meeting.

**2. The names of the council members who attended less than half of the meetings.**

1. Absametov Malis Kudysovich, Chairman
2. Hero Zholtaev, Deputy Chairman
3. Auelkhan Ergali Satyshuly, Scientific Secretary
4. Abetov Auez Egemberdievich, Member of the Dissertation Council
5. Bekbotaeva Alma Anarbekovna, Member of the Dissertation Council
6. Ensepbayev Talgat Ablaevich, Member of the Dissertation Council
7. Zavaley Vyacheslav Alekseevich, Member of the Dissertation Council
8. Shakibaev Ilan Isatayevich, Member of the Dissertation Council
9. Pavlichenko Lyudmila Mikhailovna, Member of the Dissertation Council
10. Kalitov Dulat Kazhkenovich, Member of the Dissertation Council
11. Khairly Babashevich Abilkhasimov, Member of the Dissertation Council
12. Nurbaev Bakhytzhhan Orazovich, Member of the Dissertation Council
13. Dmitry Khitrov (citizen of the Russian Federation), Member of the Dissertation Council

**3. A list of doctoral students with an indication of the organization of training.**

1. Niyazova Akmaral, KazNRTU named after K.I.Satpayev

**4.1. A brief analysis of Niyazova Akmaral Temirkhanova's dissertations on the topic: "Geological structure and prospects of oil and gas potential of the Jurassic deposits of the North Ustyurt depression according to geological and geophysical data", specialty 6D070600 - "Geology and exploration of mineral deposits".**

*- analysis of the topics of the considered works;*

The aim of the work is to clarify the geological structure by constructing quantitative correlations between the distributions of the anomaly of potential geophysical fields and the structural features of the Moho surfaces, the foundation and the reference horizons of the sedimentary cover.

Solved geological problems:

- Zoning of gravitational and geomagnetic fields, solving inverse problems (determination of Euler points) and identification of correlation coefficients between anomalies of these fields;
- Structural analysis of the reference boundaries of the sedimentary cover and consolidated crust;

- Identification of correlations between the reference boundaries of the Earth's crust and anomalous gravitational, geomagnetic and thermal fields;
- History of geological development in the Paleozoic and Triassic-Jurassic;
- Oil and gas geological zoning by Upper Paleozoic, Triassic and Jurassic sediments;
- Geological and geophysical study, tectonics, lithology and oil content of the Arystan oil field;
- Application of a complex of GIS methods, petrophysical analysis (in Interactive Petrophysics software) to identify productive horizons of Lower-Middle Jurassic deposits;
- Methodology for constructing 3D geological models of productive horizons in Petrel software;
- Structural analysis of productive horizons. Distribution of filtration-capacitance properties of sand-siltstone reservoirs of Jurassic sediments;
- Correlation analysis of local and regional structures on the example of the Arystan deposit.

*- the connection of the topic of the dissertation with the directions of science development, which were formed by the Higher Scientific and Technical Commission under the Government of the Republic of Kazakhstan in accordance with paragraph 3 of Article 18 of the Law "On Science" and (or) state programs;*

For the first time, quantitative correlations between potential geophysical fields, deep structure and oil and gas potential of Jurassic and Pre-Jurassic rock complexes have been revealed for the North-Ustyurt region using modern software.

Practical significance - oil and gas geological zoning with the involvement of factors of deep structure (at the quantitative level) and the history of geological development. Identification of new oil and gas prospective objects in the Jurassic sediments.

*- analysis of the level of implementation of the results of dissertations in practice.*

The results of dissertation research have been published in three journals indexed in an impact factor database, 4 articles in publications recommended by the Committee for Control in the Field of Education and the Ministry of Education and Science of the Republic of Kazakhstan, 6 articles in international conferences and other publications.

The result of dissertation research is implemented in the company "NGS" LLP. The act of implementation according to the method of quantitative construction of Euler points was obtained.

In addition, the results of dissertation research were discussed in the following enterprises/organizations (there are discussion protocols)

- ICI&D Satbayev University;
- SMU;
- NGS LLP;
- KBTU JSC;
- Geotherm LLP;
- GEO-Munai XXI SPC LLP;
- PGD Services LLP.

**5. Analysis of the reviewers' work (with examples of the most low-quality reviews).**

Reviewers' reviews are positive.

**6. Proposals for further improvement of the system of training scientific personnel.**

**7. The number of dissertations for the degrees of Doctor of Philosophy (PhD), doctor by profile in the context of specialties (areas of training):**

	Specialty 6D075500- Hydrogeology and engineering geology	Specialty 6D070600 – "Geology and exploration of mineral deposits".	Specialty
--	---	--	-----------

dissertations accepted for defense (including doctoral students from other universities);	-	1		
dissertations withdrawn from consideration (including doctoral students from other universities)	-	-		
dissertations that received negative reviews from reviewers (including doctoral students from other universities);	-	-		
dissertations with a negative decision based on the results of the defense (including doctoral students from other universities).	-	-		
Including from other training organizations	-	-		
With a negative decision based on the results of the defense	-	-		
Including from other training organizations	-	-		
Total number of dissertations defended	-	1		
Including from other training organizations	-	-		

**Chairman of the  
Dissertation Council**

**Scientific Secretary of the  
Dissertation Council**

21.01.2022



**M. Absametov**

**Ye. Auelkhan**