GEOCHEMICAL ANALYSIS DURING EXPLORATION AND FIELD DEVELOPMENT
29 OCTOBER 2015, MOSCOW

TARGETS

- To justify and provide a reasonable roadmap of modern geochemical analysis, and to provide a set of methods and procedures for its implementation.
- To give examples of practical solutions to geochemical challenges for various regions of Russia.

COURSE OUTLINE

1. Introduction to geochemical analysis.
2. Regional geochemistry.
3. Reservoir geochemistry.
4. Practice.

Regional geochemistry

- 2.1. The role of geochemistry in oil and gas potential evaluation.
- 2.2. Basin modeling.
- 2.3. Shale oil.
- 2.4. Applications of geochemistry.

Reservoir geochemistry

- 3.1. Geochemistry for specification of reservoir geology, monitoring, and reservoir management.
- 3.2. Typical examples.

Practice

SPECIAL INSTRUCTIONS: PARTICIPANTS MUST BRING A LAPTOP

Geological surveys constitute an integral part of performance of geological prospecting works. In particular, the surveys enable us to determine oil source rocks and to give a quantitative assessment of their ability to generate various hydrocarbon fluids. Obtained information serves as a basis for building a 3D model of a sedimentation basin and its thermal evolution.

At the well drilling and completion stage, the information obtained from the analysis of a bore core and the sludge of liquid and gaseous fluids allows us to determine producing formations and to identify inter-reservoir overflows.

At the field development stage, information on the composition of fluids at the molecular, nuclear, and isotope levels allows us to detect composition irregularity within the reservoir and to suggest the presence of hydro-dynamically isolated zones, and to monitor production of reserves.

The course is intended for geologists and geophysicists who plan geological prospecting works and perform a comprehensive interpretation of geological information, as well as for field geologists and exploitation specialists.

INSTRUCTOR

IVAN GONCHAROV

INSTRUCTOR

PAVEL BEDRIKOVETSKY

REGISTRATION IS OPEN: For more details and registration please contact us at RussianReg@spie.org.