

## COGNITIVE AND PREDICTIVE TECHNOLOGIES WHILE WELL CONSTRUCTION

Sergey Stishenko is in oil and gas technology business since 2007. He graduated from Dostoevsky Omsk State University (Russia) in 2005, where he studied Applied Mathematics and IT, and from Heriot-Watt with honors in Field Development and Petroleum Engineering. After his graduation, Sergey worked for the first Russian LNG project Sakhalin Energy (joint venture Shell, Gazprom, Mitsui, & Mitsubishi).

He joined the well construction team and was responsible for all the petrophysics and geosteering work by the well construction on the fields of Sakhalin Shelf. Several years later he co-founded “Geosteering Technologies” (GTI) and introduced to the Russian market the first domestic commercial product for the geological well drilling. Sergey is the CEO of “Geosteering Technologies” and the co-author of “Geosteering in Five Clicks” – the first book in Russian on well placement that features a detailed description of all modern geosteering methods used at oil fields all over the world.

### ABSTRACT

Today any industry, whether oil and gas or iron and steel considers the automatization the right path to be on. This approach not only helps industries to reduce production expenditures, to significantly raise their technological efficiency and to mitigate risks, but also gives tools to predict any issues, which being aware of in advance keeps the technological cycle permanent and safe.

Based on best practices and performance analysis we see a huge role of predictive analysis in well construction process. With help of machine learning algorithms these technology provides clients with a detailed history of the well (tied to the certain field and the license area) with the probabilistic risks forecast that may occur during drilling or RIH/POOH operations



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