

# GEMCOM CUSTOMER STORY

## Multi-disciplined Voskhod-Oriel team relies on Gemcom Surpac™ to drive mining operation

The Voskhod-Oriel chromite mine is located in northwestern Kazakhstan and is geologically situated in the southern part of the Ural folding belt. The operation went into production in 2009 and produces approximately 55,000 tons of ore each month. Surpac is used in surveying, geological modelling, and mine design at the mine.

“In surveying, Surpac helps us run estimations quickly and validate mined volumes. Before the introduction of the software work on volume estimation, and the creation and plotting of sections, was done by several specialists and took quite a lot of time. With Surpac this work can be carried out by one person over a much shorter period of time,” says Karlygash Toulebekova, Surveyor, Voskhod-Oriel.

“I recommend Gemcom, the company, to other professionals as it provides a broad set of software, technical support, and training. Its software is flexible, easy to use, and offers good visualisation,” Toulebekova adds.

Commenting on how his department uses the software, Chief Mine Geologist Vyacheslav Volkov says: “We use Surpac to work with geological data, in the geological modelling of the deposit, and in drill and blast

design. The software enables us to run reserve estimations, keep records on in-situ conditions and pre-mining changes, and plan production drilling.”

“Without Surpac our work allocated to re-calculation and clarification of the ore reserves and parts of the deposit already mined would be carried out by several specialists over the course of one to two months. Using Surpac it takes us a week to do this,” Volkov continues.

Surpac is also actively used in the design of development workings and stopes. Mine Planning Engineer Natalya Parkhomenko comments: “The solids modelling tools help us to resolve problems with volume and grade definition for stopes with a higher level of precision. We can do sectioning quickly and have effective visualisation of the process. This has enabled us to reduce the amount of time we spend on this task significantly.”

“Surpac helps everyone here at the mine because it is easy to learn due to its full set of tutorials and user interface, which are both in Russian. We also have technical support in our native language. In fact, a Russian-speaking mining professional from Gemcom visited us recently at the mine,” concludes Parkhomenko.



### About Voskhod-Oriel LLP

**Headquarters:** Moscow, Russia

**Ownership:** Mechel

**NYSE Symbol:** MTL

Voskhod-Oriel is owned by Russian company Mechel, a mining, steel, ferroalloy, and power company with operations in Europe, Russia, Central Asia, and South Korea.

**Website:** [www.mechel.com](http://www.mechel.com)



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