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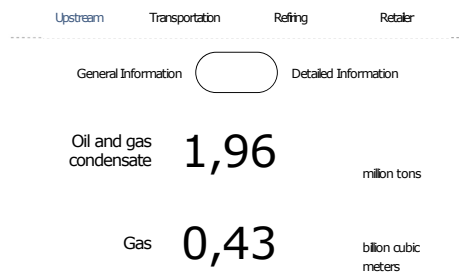
АО HK "КАЗМУНАЙГАЗ"

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Production performance



Tengiz

General Information

The license block of the project includes the huge Tengiz field and the Korolev field that is smaller in size, but containing significant reserves.

The Tengiz oil field discovered in 1979 is one of the largest fields worldwide. Tengiz is the deepest field in the world with a size of 19 km x 21 km, the upper oil-bearing reservoir of which is at the depth of about 4,000 meters with the reservoir thickness of 1.6 km.

The Korolev field was discovered in 1984 and is located 10 km northeast of the Tengiz field.

The agreement on the Tengizchevroil LLP (TCO) project was signed on April 2, 1993 between the Republic of Kazakhstan and Chevron. The hydrocarbons exploration and production license was issued to TCO for a period of 40 years.

TCO members are JSC NC "KazMunayGas" (20%), Chevron (50%), ExxonMobil (25%), and LukArco (5%).

TCO's core activities are exploration, production and sale of hydrocarbons.

TCO Products

The TCO commercial oil is very "light" and in high demand on the world market, thanks to its high quality.

Since 2000, TCO has been producing high-quality dry gas, which is used for the needs of TCO and sold to consumers.

Along with crude oil, dry gas and sulfur, TCO produces liquefied petroleum gas (LPG). Since 2001, new facilities and capacities have been introduced that have brought the quality of LPG (propane and butane) to the requirements of international standards, making it possible to sell it not only on the local market, but to export it to European countries as well.

In the process of hydrogen sulfide removal, a by-product – elemental sulfur – is produced. During the years of TCO's operation and production, a sufficiently large amount of sulfur stored as solid monolithic blocks on sulfur pads has been produced.

Due to the effective sale of sulfur, the amount of sulfur storage on pads has been sharply reduced – while in 2005 9.6 mn tons of sulfur were stored on pads, in 2015 TCO successfully completed the program of pads utilization, and today the volume of produced high quality sulfur is equal in the volume of its sale, without loading to sulfur pads.

TCO produces and sells the following types of high-quality sulfur:

- liquid sulfur;
- flake sulfur (since 2002);
- granulated sulfur (since 2003).

New TCO Projects

TCO continues to improve technologies and consistently increases its capacities, while reducing the impact on the environment.

In 2000 TCO completed the Line 5 Project and in 2001 – Program 12 Project at IPT (integrated process trains) plant. These facilities have enabled it to increase the oil production up to 13 mn tons annually.

Commissioning in 2008 of the Second Generation Plant (SGP) and gas re-injection facilities (SGI) under the expansion project of the "second generation" significantly enhanced TCO's production potential. Its implementation has considerably widened the company's strategic outlook and led TCO to the production level of 26 mn tons of oil annually.

Currently, TCO is working on the further development of production as part of the Wellhead Pressure Management Project/Future Growth Project (WPMP/FGP).

The implementation of the WPMP involves the construction of a new wellstream gathering system, infrastructure and support facilities and pressure build-up system facilities, which will maintain the current level of oil refining at the existing IPT and SGP plants.

The FGP includes the construction of a new 12 MMtpa oil refinery and gas injection facilities with the capacity of 9.4 billion m3 annually.

The implementation of the WPMP/FGP will increase TCO's oil production up to 38 million tons annually.

(January of 2016)



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