

Novomet Completions System Produced 17.5 Million USD of Oil Before Competitor Could Even Get Started

CHALLENGE

Install extended-reach completions equipment, an ESP bypass system, and an ESP in a remote arctic offshore well.

SOLUTION

Delivered large-bore completions equipment, the Y-Tool ESP bypass system, and a high-flowrate ESP with all components assembled and ready to run in hole.

RESULTS

- Commissioned the first production well 2 months before a major oilfield services company could deliver a similar solution for an offset well
- Eliminated 2 months of deferred production, equivalent to 58 020 m³ (364,935 barrels) of oil
- Completed and commissioned the well just 8 days after drilling operations concluded

Breaking the Ice

A major operator was developing the Prirazlomnoye field south of Novaya Zemla in northern Russia on the Pechora Sea shelf. The field is 60 km offshore and is locked in ice for most of the year, making traveling and shipping difficult.

The operator was scheduled to conclude drilling two 7000-m (23,000-ft) production wells in early November and had recently lost their completions supplier. The operator selected Novomet and a competitor to complete the wells to see how each would perform. During technical clarification, the customer realized they needed to alter the electrical submersible pump (ESP) specifications to accommodate higher than expected production rates.

Delivering Ahead of Schedule

Novomet quickly developed and tested new ESP stages capable of producing 2250 m³/d (14,150 bbl/d) of fluid at 50 Hz to meet the new ESP specifications. We made adjustments to accommodate the new ESP in our **Y-Tool ESP bypass system** and shipped all equipment to the wellsite. Everything arrived at the well in October, weeks before drilling operations were scheduled to conclude. Included in the solution were the large-bore completions equipment (expansion joint, tubing-retrievable subsurface safety valve, sliding sleeve, hydraulically set production packer, and ESP packer), our Y-Tool ESP bypass system, and the new high-flowrate ESP.

When drilling finished on November 6, Novomet began completions operations the same day. The well was commissioned just 8 days later on November 14 and began producing an average of 967 m³/d (6,082 bbl/d) of oil.



Novomet installed completions and production equipment in just 8 days, delivering 2 months of oil production before a competitor was able to deliver equipment to a nearby well.

Prirazlomnoye Field, Russia

Producing Before the Competition Even Got Started

The competitor awarded with the nearby well finally had their equipment at the wellsite in December, 1 month after drilling finished. But because it was not assembled and ready to run, they were forced to send some equipment back to their service base for final assembly and testing. The competitor lost another month. They were finally able to get all equipment to the offset well a full 2 months behind Novomet.

While the operator waited 2 months for the competition to get the offset well completed, the Novomet well produced 58 020 m³ (364,935 barrels) of oil, equivalent to 17.5 million USD assuming an average price of 48 USD per barrel.

Building a Solid Reputation

At the time this case study was published, the original production well had been up and running for 1,041 days. After seeing how Novomet was able to quickly respond to its needs, the operator has continued to look to Novomet as a completions partner of choice in the Pirazlomnoye field.

Wells awarded by year in the Pirazlomnoye field:

- 2016—One production well, one injection well
- 2017—Two production wells, six injection wells
- 2018—Ten production wells with full service contracts



Novomet continues to grow in the Pirazlomnoye field by delivering superior technology, service, and reliability.