

## Field Operating Efficiency Improvement Using Technologies of Integrated Modeling

**Sector:** Oil and gas

**Region:** Not Disclosed

**Year:** Not Disclosed

**Client:** Not Disclosed

**Result:** **Calculated cumulative economic effect from implementation of integrated modeling tools at the field for 2 years amounted to + \$ 16.7 million**

1. Long-term forecast of field development till 2022 is was calculated taking into account the effects from geological and engineering actions and administrative and technical measures;
2. An optimal plan of geological and engineering actions and administrative and technical measures was formed, the efficiency of which is estimated on the base of the integrated model, is worked out;
3. For a part of producing well stock, it is recommended to replace electrical centrifugal pumps with the optimum pump rating or adjust their frequency;
4. Need in reservoir area expansion was revealed (upgrading work was performed);
5. Restricted flow areas were revealed in flow lines and wellhead connections of some producing wells, which were eliminated as the result of reservoir revision and cleaning;
6. Power supply and consumption system is audited and analyzed using calculation complex RasrtWin. According to the results, places of technical power loss and proposed measures aimed at power loss reduction were revealed.

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**Line of activity:** Intelligent Oilfield