

AVIST Solution for oil and gas production companies. AVIST Module. Planning

Integrated planning is a process of consensus decision making by different production services through integration and optimization of the most important activities to achieve the objectives set for maximizing production, optimal use of resources and safe operation.

AVIST. Planning Module (Production Planning) is designed for integrated planning process automation for different planning horizons (14, 30, 90 days). The module automates the main stages of integrated planning:

- consolidation of production departments' functional plans;
- optimization, agreement and approval of the integrated plan;
- monitoring fulfillment of the integrated plan;
- planning efficiency analysis.

AVIST. Planning allows the formation of a unified production planning environment for all operating activities in the field and continuous improvement of the planning process based on multi-criteria and multi-objective optimization.

Functionalities

- Functional plan consolidation (production affecting activities)
 - Plan optimization according to the pre-set target functions (production profiles and object potentials received using AVIST. The Prediction & Choke Modelling module can be used for optimization).
 - Development and approval of an integrated plan and production forecast.
 - Monitoring plan fulfillment, KPI calculation.
- The AVIST. Planning Module provides for built-in plan optimization models, which facilitate integrated planning and ensure achievement of the required.

Examples of optimization models:

- reduction of underproduction with consideration of technological and resource limitations (with consideration of formation potentials and production facilities);
- production maximization based on the potentials (with consideration of technological and resource limitations);
- alignment of periodic well stock operation (reduction of starts-stops, balancing starts-stops to align the load on gathering facilities);
- optimization of power consumption;
- optimization of resources used, team movement schedule.

AVIST (Asset Visualization Smart Technology) —

is a domestic integration platform for consolidation, processing, analysis and visualization of engineering and field system data, which has advanced tools for event control at production facilities, integrated production planning and support of operative production decision making based on integrated tools for simulating an asset, formation potentials, well and aboveground process facilities.

Advantages

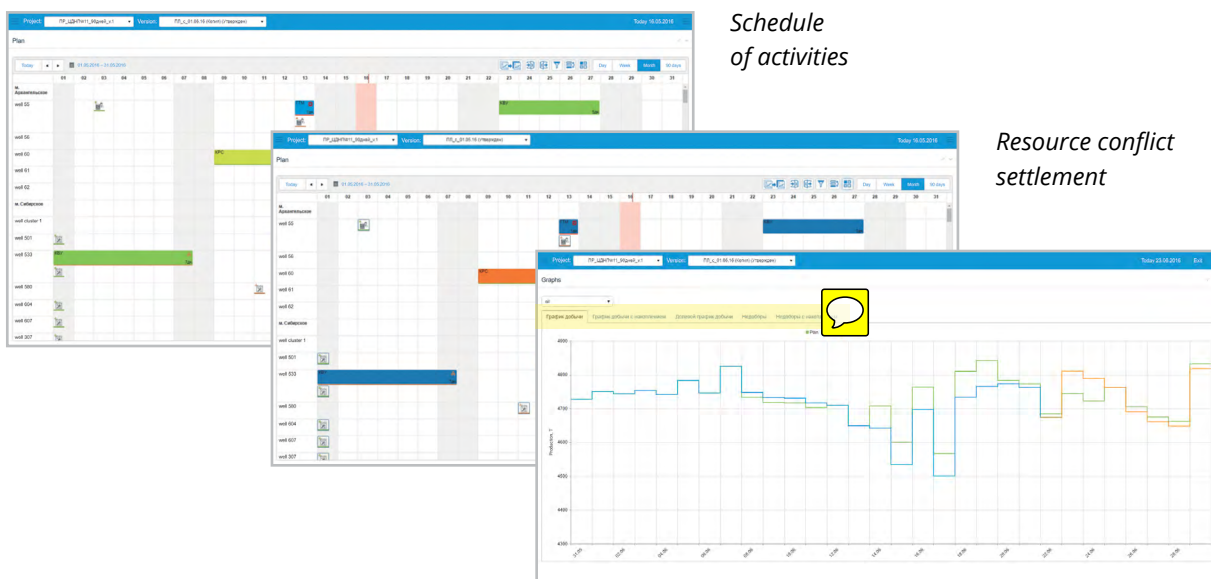
- Agreement and alignment of plans of production departments.
- Automatic optimization of activity timeframes with consideration of their compatibility, process conditions and object potentials.
- Reduction of planning errors due to the human factor by an automatic check for conflicts.
- Coordination of different services in the planning process.
- Reduction of time and an increase in quality of integrated plan development.

Implementation

- Deployment of the AVIST integrated planning system.
- Planning on the customer's equipment.
- Preparing an integrated plan for the selected asset.
- Connection and setup of user rights.
- Optimization of the integrated planning procedure.
- Execution of the one-month and three-month planning cycle.
- Setting up the integration solutions (SAP/R3, TKPC, OIS and etc.).
- Setting up the optimization models.
- User training. Development of rules and operation manuals for integrated planning of production activities.
- System development, support and maintenance.

Results of use

- Increased planning accuracy (up to 25%).
- Reduction of time spent on planning (by several times).
- Reduction of production shortfalls due to compatibility of activities and process conditions (up to 3%).
- An increase in equipment mean time to repair (reduction of well shutdown up to 20%).
- Optimization of operating expenditures for equipment maintenance and resource mobilization (up to 10%).
- Reduction of power consumption by decreasing starts-stops, periodic fund optimization (up to 10 million rubles per year per well cluster – based on the results of the pilot project).



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