

IFCS[®] Natural Gas Intelligent Production System

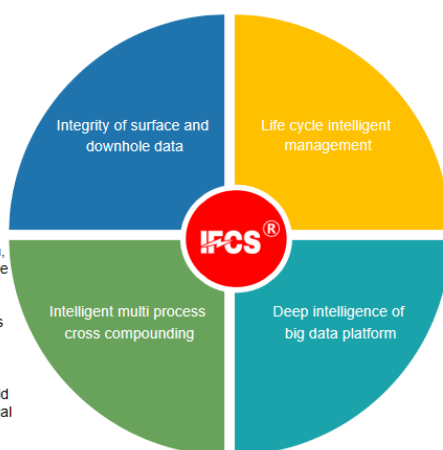
Anton IFCS[®] Natural gas intelligent production system is a complete system solution based on the full application scenario and full life cycle intelligent production management requirements of natural gas wells, and deeply integrates industrial Internet of things cloud platform, big data mining, artificial intelligence algorithm, material innovation and multi-disciplines. The system fully reflects the high production application value and broad application prospect through the four significant characteristics of surface and underground data integrity, intelligent multi-process cross compounding, full life cycle intelligent management and deep intelligence of big data platform.

Significance to production and block rolling development

Implement intelligent adjustment of production process based on on-line intelligent downhole production logging technology; Provide more complete ground and underground production data support for the rolling development of the block.

Multi scenario application value

Due to the complexity and diversity of gas field production, obvious differences in single well characteristics and single limitation of conventional process, there is no understanding of well group energy management. Based on data integrity, IFCS system realizes the intelligent cross compounding of innovative processes in the whole life cycle of gas well production, effectively responds to the complexity and diversity of gas field production, makes one-time low-cost investment in the initial stage of gas field construction, and deeply excavates the production potential of well groups, which is a powerful guarantee for gas field production quality improvement and efficiency increase.



Improve quality and efficiency

Implement the intelligent management of the whole life cycle in the initial, middle and later stages of gas well production, reduce the management cost, improve the production efficiency and prolong the production life of gas well.

Realize unmanned gas field

Based on the industrial Internet of things, big data mining, artificial intelligence and hardware advanced parameter upgrading, it will greatly reduce the routine operations such as manual patrol, maintenance and accident hidden danger treatment on the well site. The realization of deep intelligent unmanned gas field will bring qualitative changes to the development and production of gas field.

System composition

■ Data Management

- ✧ Data front-end processor
- ✧ Intelligent data management and control software

■ Ground System Integration

- ✧ Wellhead intelligent reagent dispenser
- ✧ "T" type intelligent fluid controller
- ✧ "G" type intelligent fluid controller
- ✧ Internal annular BOP
- ✧ Online downhole data monitoring system
- ✧ Sand removal, separation and treatment module
- ✧ Foam discharge agent (preservative) storage tank
- ✧ Defoamer (alcohol) storage tank
- ✧ Well cluster energy manifold

■ Downhole System Integration

- ✧ Downhole positioning fluid controller

