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The intelligent well system is mainly composed of two parts: ground equipment and downhole equipment, including downhole information detection and acquisition system, production fluid control system, data information transmission system and uphole data analysis system [, ,], as shown in Fig. 1 and Fig. 2. The production fluid control system is an integral part of intelligent well technology.

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Intelligent completions incorporate permanent downhole sensors and surface-controlled downhole flow control valves, enabling you to monitor, evaluate, and actively manage production (or injection) in real time without any well interventions. Data is transmitted to surface for local or remote monitoring in your digital well platform.

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IWS is a privately owned technology company backed by Pason Systems that specializes in the development and deployment of proprietary well control systems. Through extensive R&D efforts, IWS has developed the inVision product lines.

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DIGITAL OILFIELD TECHNOLOGY Intelligence is defined as the ability to reason, plan and comprehend complex events and make an informed decision based on this information, and when the first intelligent well completions were installed in 1997 they really met this definition. They were micro-processor driven and teeming with

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Intelligent well technology is a key enabler to assist these pursuits. But to effectively realize the benefits from intelligent well technology, the operator must focus on the potential applications, reservoir uncertainties, timing of development planning, functional requirements, detail design, and management philosophies and systems.

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technology as well as intelligent completions and multilateral systems. The assembly of a . smart well system possesses the following components which direct towards a stabilized and .

(PDF) A REVIEW ON SMART WELL COMPLETION SYSTEM: ROUTE TO ...

Intelligent wells (IW) are believed to be the most important among a series of technological breakthrough aimed towards adding reserves. (Dyer et al, 2007). Intelligent well completions employ localized pressure restrictions (ICVs) to balance the production profile along the length of the well completion by splitting it into two or more sections.

Vol. 5, Issue 4, April 2016 Intelligent Well Technology ...

Conference papers: 1. SPE 167818 "Optimal Well Work-over Scheduling: Application of Intelligent Well Control Optimisation Technology to Conventional Wells" Intelligent Energy April 2014, Utrecht Highlighted in JPT May 2014 2. "Reservoir Uncertainty-tolerant, Proactive Control of Intelligent Wells" ECMOR XIV (14th European Conference on the Mathematics of

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PRODUCTION TECHNOLOGY: Intelligent wells - Low-end and ...

Reservoir Group INFOCOIL system provides real-time data during well intervention operations. The system is highly beneficial for ultimate job performance and success by delivering "live" downhole internal and external pressures, tension/compression, and temperature data along with casing collar locator (CCL) for accurate depth control.

Intelligent Well Intervention Technology - Reservoir Group

This technology, collectively referred to as "intelligent completions," has advanced rapidly over the last few years showing benefits including increased recovery and production acceleration. Savings from reduced well intervention provide further payback, particularly for multilateral, subsea, or unattended platform wells.

Intelligent Well Completions - OnePetro

Intelligent well technology is the ability to actively manage the reservoir recovery process. Intelligent wells can control the distribution of water or gas injection in a well between layers, compartments or reservoirs. They can restrict or exclude production of unwanted

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