



Hzj-1 drilling rig engineering monitoring system

What is the rig monitoring system?

The Rig Monitoring System is designed to display highly accurate process and read back information derived from an almost limitless range of sensor inputs from drilling equipment. The operators interface is both intuitive and easily configured for each application.

How does the rig control system work?

Our control system tracks the current status of the rig (e.g. drilling, tripping) and any events (e.g. on/off slips). From this data, the system reports Key Performance Indicators (KPIs), such as time to make a connection. The system allows you to identify the areas of concern (e.g. compare crew performance).

What is a drilling control system?

The Drilling Control System (DCS) is at the heart of your drilling rig operations. At Jelec we focus on research that improves the operating environment. Our DCS provides safe operations, user friendly controls and optimized efficiency of the equipment and drilling process. An open-architecture is one of the main features for the system.

What is hydraulics Monitoring & Analysis?

Hydraulics monitoring and analysis is a part of the DrillFact service that utilizes a unique suite of sensors, along with specialized software to indicate early warnings about the well.

Can rig monitoring system be used for North Sea platform decommissioning?

Case Study: Rig monitoring system with data acquisition for North Sea Platform decommissioning. As part of their decommissioning programme a North Sea operator needed to reinstate an obsolete drilling instrumentation package prior to a plug and abandonment programme.

What are advanced drilling parameters?

Our system provides advanced drilling parameters to fill the gap of the conventional drilling instrumentation. Key Advanced Drilling Parameters include: o True hookload o True WOB o Torque & drag o Pick up / slack off weight o Free rotating torque and weight o Residual cuttings / Depth of cut o Equivalent Circulating Density o Total Gas

Another RPD System for major drilling contractor Monitor Systems were contracted by a major drilling contractor to supply their offshore jack-up rig with a retrofit M1000 RPD system.

Based on Monitor Systems standard DAQ platform with enhancements to optimise it for the Tender Vessel/ Drilling Package configuration the system provides clear, real-time insights into ...



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The I-View system is TCP/IP based and can share drilling information with local and/or remote off-site locations. It also supports password-protected "Thin ...

At Telemation, our engineering and automation team developed a fully integrated system to support safe, reliable and efficient rig operation. The system ...

Our drilling DAQs seamlessly integrate with your existing rig infrastructure, utilizing Siemens PLCs and WinCC SCADA. With our expertise in system ...

At Monitor Systems Engineering, we have years of experience providing top-quality CCTV solutions for both offshore and onshore environments, from accommodation barges to drilling ...

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The BOP Monitoring System was made up of two indication panels and one processing enclosure. One of the indication panels was for the Toolpushers ...

Combining technologies and expertise DrillFact(TM) real-time monitoring service combines the technologies and expertise to deliver enhanced results above ...

Monitor Systems were asked by Diamond Offshore Drilling to design, build and install a crown block proximity monitoring / alarm system with drillers alarm ...

Red zones are the most dangerous areas of offshore drilling rigs, so how do you keep crews safe during drilling operations? Read our shortlist of red zone monitoring systems ...

Monitor operations wherever you are. Our WellData(TM) 4.0 remote monitoring solution provides critical drilling information anywhere in the world, as if at the ...

At Monitor Systems Engineering, we have years of experience providing top-quality CCTV solutions for both offshore and onshore environments, from ...

Monitor Systems provides multiple new systems for a Jack-Up drilling rig. Monitor Systems were approached to survey for multiple system upgrades on the Petrfor Axima (formerly Valaris 142) ...

We offer a range of camera types suitable for various applications, including monitoring of drilling operations,



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deck operations, and accommodation areas. Our systems can be designed to ...

An optimal drilling operation requires close control over a number of parameters. Even though the drilling program may have recommendations related to drilling ...

The Drawworks is one of the most important components of the drilling rig (types of drilling rigs). The unit supplies the hoisting power, the ...

Monitor Systems Engineering specialise in the design and manufacture of safety, critical, operational instrumentation and monitoring systems for Drillships. Drillships, like jack-up rigs, ...

Our technical surveys include the survey/reporting of all safety critical instrumentation and monitoring systems in hazardous and safe area environments on offshore drilling rigs and ...

Monitor Systems Engineering were contracted by a Global Offshore Drilling Contractor to upgrade the (RMS) Rig Monitoring System on one of their Semi-submersible Rigs. Over the years, ...

In General: Oil well control and monitoring is the management of the dangerous effects caused by the unexpected release of formation fluid, such as natural ...

Our Class 1, Div 2 or Zone 2 system is a completely enclosed purged system with a 15" daylight readable touchscreen display. It contains a processor in a ...

Maximize the safety on drill floor of oil and gas sites with red zone monitoring for drilling rigs (red zone management) enabled with AI, Video Analytics, Computer Vision and Generative AI. ...

Top-Quality Talkback Systems and PA/GA Solutions At Monitor Systems, we provide high-quality Talkback Systems (Intercoms) and PA/GA (Public Address/General Alarm) solutions ...

Electronic Rig Monitoring System Jiach Energy Solutions have Partnered with Bohr Instrument Services B.V. (Veenoord, The Netherlands) and Matherne ...

New integrated solution for innovative P& A vessel. Monitor Systems provides multiple new systems for a Jack-Up drilling rig. Monitor Systems are proud to be the exclusive European ...

This paper highlights a new online system for monitoring drilling fluids, enabling intelligent control of drilling-fluid performance. The online ...

Monitor Systems Engineering were approached by a drilling company in Turkmenistan to upgrade the drilling instrumentation system on their Jack-up rig. With years of experience in drilling ...



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Monitor Systems have recently delivered an upgraded Gas Detection System for a Jack-Up Rig off Western Australia. The new system connects to the 42 existing combustible gas and H₂S ...

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