



International EAM & SAP S4 Implementation

At a global drilling rig contractor

Case Study

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Objective

- Replacement of the existing maintenance system with standard SAP Plant Maintenance capabilities for International Operations
- Compliance with the Supply Chain Operational Standard for Inventory Management through:
 - ◇ The creation of bills of materials (BOMs) to link inventory to equipment to improve the planning and sourcing of consumable items for planned maintenance
 - ◇ The categorization of Consumables and Critical Spares to improve visibility of critical spares and mitigate downtime
- Compliance with regulatory obligations, country specific legislation, contractual requirements and standards set by operators
- Leverage and capitalize on existing SAP functionality and showcase the scalability of structure processes aligned to ISO 14224 - Collection and exchange of reliability and maintenance data for equipment
- Implement a scalable solution for North America with the SAP S4 Implementation Project

Approach

- Establish global standards and common processes to provide the foundation to move into Condition Based Maintenance
- Data improvement/cleansing including:
 - ◇ Equipment hierarchy aligned to ISO 14224 standards, grouping of equipment through system classification
 - ◇ Documentation linked to equipment (documentation reconciliation)
 - ◇ Bill of Materials, developed components that are required for scheduled maintenance

Solution

- Work Orders utilized to record preventive and corrective work for tracked equipment
- Maintenance strategy, plans, task lists, and bill of materials created for Top Drives, Engines & Well Control equipment
- Standardized Equipment structure across all rigs to improve visibility of equipment and accuracy of equipment transfers with new parent/child relationship
- Electronic documentation: manuals, drawings, equipment maintenance practices, Equipment Certificate of Conformity (COC), Manufacturing Record Book (MRB), etc., available in SAP

End Result

- Ability to report on equipment reliability which provides the history of planned and corrective work, costs (planned versus actual forecasting), materials used, tracking overdue maintenance and corrective repairs; capturing the information throughout the process allows for insight on how to improve maintenance strategies and visibility into the lifecycle cost of ownership of equipment
- Improved visibility into scheduled preventative work for rig managers/field superintendents and improved accuracy for equipment usage



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