

Sand Erosion Integrity Management (SEIM) for Offshore Well Production Flowline

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Keywords: Provide a maximum of four keywords. Each keyword should be accompanied by the capital letter denoting the category from which the keyword has been selected.

In the Gulf of Thailand, the demand for shallow well perforation has led to an increase in sand-producing reservoirs. However, the presence of sand poses a significant problem as it damages equipment within the dynamic system of hydrocarbon extraction. This results in containment loss and unexpected platform shutdowns, leading to substantial financial losses for operators.

To address the issue of sand erosion, the Sand Erosion Management System was implemented by CPOC in 2020. Since its inception, this system has achieved an impressive record of zero Loss of Primary Containment (LOPC) while optimizing production securely. The success can be attributed to key factors such as seamless collaboration among inspection, subsurface, and offshore operation teams, accurate prediction of the choke valve's coefficient, and the use of advanced real-time inspection technology.