

## **Integration of The Qhse Management System in the Life of Oil and Gas Wells**

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### **Abstract**

Integration of the QHSE management system in the life of oil and gas wells Babacar Ibrahim DIEYE SMH All activities related to the drilling of oil and gas wells have intrinsic hazards and potential environmental risks that must be controlled from the outset, hence the need to integrate the QHSE management system into the entire process of carrying out drilling activities. In this study, we will highlight the most important QHSE aspects in the life cycle of an oil well based on the oil well “Banda East-1” otherwise from the beginning of drilling to the abandonment and plugging of the well. The implementation of the QHSE management system in the life cycle of oil and gas wells is not trivial because the vision of the danger must not only be apprehended from an industrial point of view but by apprehending the choices that people make. In order to do so, certain crucial aspects must be treated with respect, namely: Integrity of the drilling wells; Use of prescribed drilling fluids when drilling in groundwater; Plugging and closing of the wells to protect health, safety and the environment; Evaluation of the geological containment outside the drilling well; Examination of the sour gas; Fugitive emission management plan and Sour gas reduction; and Production of emission reports. The combination and respect of all these aspects will undoubtedly lead us to more experimental and innovative tools that would be implemented internally by companies to better respond to QHSE needs in the oil sector.