

HIGH ACCURACY ACOUSTIC POSITIONING OF DEEPWATER DEVELOPMENT WELLS

DP System references, Well spud-in, Development Well accurate positioning, Rig Move, LBL array deployment



ADVANCED SUBSEA Services are based on the following key features:

- **Field-proven methods optimized for project-specific requirements,**
- **Positioning Experts involved at early stage of projects,**
- **Deep knowledge of DP systems and their positioning references.**
- **Extensive cooperation with Drilling Contractor team.**

This service is dedicated to Oil&Gas Companies, Drilling Contractors and is available in Brazil, GoM and West Africa -

1- Acoustic Rig Positioning Service

High Standard service providing a very accurate absolute position of Development Wells in Deep Water using specific methods allowing to reduce time of operations.

2- Acoustic Rig Positioning Details.

- Standard Procedure for positioning DeepWater Drilling Units, which is adapted to each specific unit.
- List of information to be required from Drilling Contractor at tender stage, allowing a proper evaluation of Unit performances in term of Positioning.
- Implementation of Specific Procedures for positioning each kind of Well, for each rig.
- Full offshore service including Mobilisation and calibrations, Rig Positioning, QC and reporting.

3- Acoustic Rig Positioning Method Statement

- Verification/ Review of all offsets onboard the Drilling unit
- Review and check of all DP parameters
- Gyrocompass calibration
- DGPS systems check/ cross-checks
- SBL/ USBL systems calibration check/ calibration
- LBL array deployment and calibration
- Accurate Well Positioning using L/USBL systems
- Detailed Reporting

4- Equipment required

Total station, Submeter DGPS, Navigation System with Gyrocompass, SV probe.

5- References of the Method

- Method development Acoustic Rig Positioning : Saipem 10K, Deepwater Discovery, Stena-T, Leiv Eiriksson
- Acoustic Rig Positioning for TOTAL E&P group 2003 – 2010 (Congo, Angola, Nigeria, ...)

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