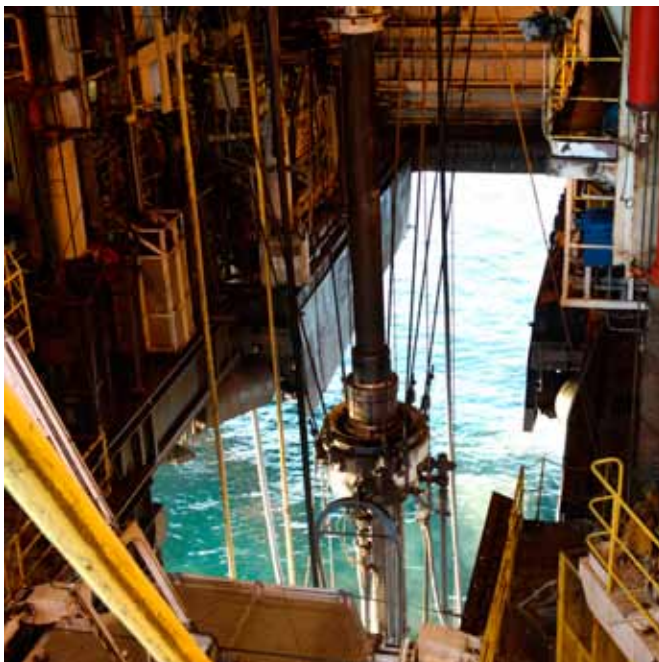


Flow assurance

Capability statement



Left: Hydrate formation in a pipeline



Flow assurance is the ability to produce fluids economically, from the reservoir to the production facility, over the life of a field and in any environment.

Effective management

There are numerous threats that can result in poor flow conditions and these can prevent the pipeline from operating as intended. Jee advises on how to control these threats through a combination of careful design and effective management of the operating pipeline.

We have considerable experience in assuring optimum flow conditions throughout the lifetime of a pipeline by providing professional and expert solutions that are specifically tailored to meet our clients' requirements.

Jee's assurance to you

Jee is an expert in all areas of flow assurance, with emphasis on the following competencies:

- ✦ Steady state and transient analysis of multiphase pipelines to assess:
 - ✦ Line size requirements
 - ✦ Liquid hold up
 - ✦ Wax deposition and hydrate formation
 - ✦ Slugging
 - ✦ Cooldown
 - ✦ Startup and shutdown operations
- ✦ Determine modifications required to enable lines to become piggable, where that capability did not previously exist
- ✦ Provide recommendations to assist the removal of stuck pigs
- ✦ Assist selection of the type of intelligent pig needed to inspect for internal corrosion

Proven track record

- ✦ Perenco 2009 – Bure North tie-back development
- ✦ Apache 2006 – North Sea development study
- ✦ Cuel 2005 – Front-end subsea pipeline conceptual engineering study

You have done a great job, the quality, detail and pragmatism of the work done was second to none.

Alistair Maclachlan, Senior Pipeline Engineer BTC/SCP, BP

List of related services

- ✦ Feasibility, conceptual design
- ✦ Field development studies
- ✦ Pre-FEED and FEED
- ✦ Detailed design specialist studies
- ✦ Installation engineering
- ✦ Construction support
- ✦ Verification

For more information

To find out how Jee can help manage and implement your engineering projects, please call us on +44 (0) 1732 371 371 or email info@jee.co.uk.



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