

CAPABILITY DOCUMENT

Sustainability through continuous innovation

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TECHNICAL CAPABILITY STATEMENT



Asset Integrity Gap Assessment

Location
Nigeria – OML-29
Nembe

Water depth
Swamp and land

Systems
Structural, lifting,
housings
Process equipment
Safety systems
Electrical and control
Pipelines

- 11 gas pipelines (1 not operational)
- 9 oil delivery lines (1 abandoned, 1 not-operational, 1 disused)
- 6 oil trunk lines (3 disused pipelines)
- Wells & Xmas Trees**
- 153 wells drilled
- Asset design capacity of 240,000 bopd
- Asset production @2013 was 64,112 bopd
- Operating at only 27% of design capacity

Activities
Integrity Management

Duration
2018 - 2019

Anomaly register creation

Detailed Integrity Review and Audit Report

- Summary of IM policy and expectations and deficiencies
- Summary of asset performance measurement
- Current practices and recommendation updates
- Incident management process review
- Emergency repair systems summary
- Asset component list
- Site visit survey reports
- Gap assessment
- KP4 integrity concerns and recommendations
- System overview – fitness for service
- Statement of integrity – Santa Barbara concrete barge
- Integrity workshop session

Asset specific risk register created

Creation of Asset Database

- Wellheads & xmas trees
- Pipelines & valves
- Structures and lifting
- Manifolds and swamp equipment
- Flow and pump stations



Site Inspection - General Visual Inspection

- High Level HAZID & presentation
- Communications and Bridging Document
- Inspection work-packs for
 - o Nembe 1, 2, 3 & 4
 - o Santa Barbara
 - o Odeama
 - o Nembe 1, 2, 3 Oil Manifold

Site Daily Progress Reports

Site Inspection Report for Each Asset



TECHNICAL CAPABILITY STATEMENT



Pig Refurbishment Services – North Sea Operations

Location
United Kingdom

Pigging support contract, several projects for managing their pigs before and after use by operators.

Water depth
n/a

Activities
Pig design
ILI tool cleaning
Cleaning pigs
management
Pig damage review

Duration
2016 - on-going



Pig platform prior to cleaning

Inspection planning and feasibility studies; procedure review; HAZID/HAZOP; contractor liaison; project management and on-site supervision.

Tools

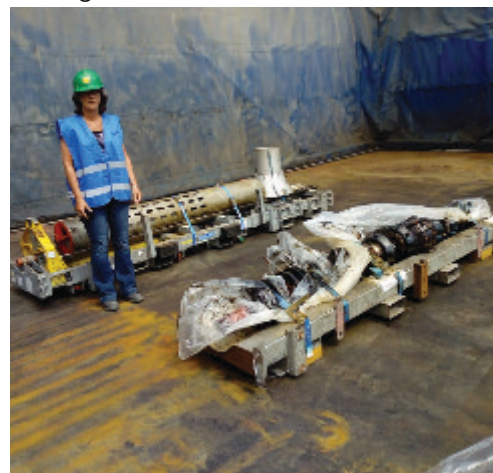
- Varying pigging and gauging tools



Waste management - cleaning program pigging slug

Scope of work

- Pig cleaning
- Pig wax disposal
- Pig storage and transportation
- Pig refurbishment



Discharge management – ensuring all wastes and contaminants are effectively contained



TECHNICAL CAPABILITY STATEMENT



PL80000 6-inch x 26.7 km Gas Condensate Pipeline 2017 ILI

Location
England

Pigging support contract, several projects for Perenco from cleaning, through to inspection of their pipelines.

Water depth
n/a

Activities
Pig design
ILI tools selection
Pumping spread
Temporary facilities
Temporary valves
Pig damage review



Set up of intelligent pigging units

Duration
2016 - 2018

Inspection planning and feasibility studies; procedure review; HAZID/HAZOP; contractor liaison; project management and on-site supervision.



Tools

- Varying pigging and gauging tools
- Temporary pig launch and receipt facilities



Development of bespoke pigging procedures

Scope of work

- Development of pigging procedure
- Cleaning
- Gauging
- Inspection
- All necessary pipeline modification to perform work
- Pig tracking
- Permitting, approvals and assistance to the Owner as required as described
- Monitoring and recording
- Pig damage assessment



Brush Pig used for operation



TECHNICAL CAPABILITY STATEMENT



Addax Pipeline Inspection 6" and 12"

Location
Owerri, Nigeria

Pigging support contract, for the commissioning of the 6 and 12" oil pipelines

Water depth
n/a

Activities
Pig design
ILI tools selection
Pumping spread support
Temporary facilities
Temporary valves
Pig damage review

Duration
2018



Set up of intelligent pigging units

Inspection planning and feasibility studies; procedure review; HAZID/HAZOP; contractor liaison; project management and on-site supervision.

Tools

- Varying pigging and gauging tools
- Temporary pig launch and receipt facilities



Development of bespoke pigging procedures

Scope of work

- Development of pigging procedure
- Cleaning
- Gauging
- Inspection
- All necessary pipeline modification to perform work
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TRACK RECORD



Engineering and Integrity

2018 | ongoing | Deepblue Energy Services Limited | Engineering and Pi Support

2018 | Aiteo | OML 29 Asset Integrity

2018 | Addax Petroleum | x2 Pipeline Baseline Inspection



Pipeline inspection and cleaning

2018 | Addax Petroleum | x2 Pipeline Baseline Inspection

2017 | Perenco UK | PL80000 6 inch x 26.7 km Gas Condensate Pipeline Support

2017 | Perenco UK | PL80000 6 inch x 26.7 km Gas Condensate Pipeline Procedure Support

2017 | Rosen UK | Service Agreement Pigs Support and Cleaning Service



Pigging services

2019 | CNR International | Pipeline Pig Cleaning & Refurbishment Service

2018 | Addax Petroleum | x2 Pipeline Baseline Inspection

2017 | Rosen UK | Service Agreement – Pigs Support and Cleaning Servi





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