

Protection of a gas pipeline from erosion

Earthworks

Jan. 2010 - Jan. 2012



YEMEN

Client

TOTAL

Amount of services

35 000 €

Mission type

Consulting expertise audit

Project owner

YEMEN LNG

Miscellaneous

Natural gas pipeline 320 km long



Description of the project

Transporting gas from the Marib' deposits in the middle of the country to Bahlaf on the coast of the Gulf of Aden, a YEMEN LNG "pipe" runs across almost 320 kilometres of sandy, stony and occasionally very mountainous deserts.

A 5 km section, permitting the passage from a high plateau reaching up to an altitude of 1,700 m to a plain lying 800 m below, is subject to hard geotechnical conditions: surrounded by high dolomitic cliffs where occasionally massive rockfalls occur, and located in a barely stable slope, this section also crosses over a series of oueds that, during the monsoon season, erode everything lying in their path.

Description of the mission

Following an expertise/diagnostic assignment carried out in 2010 concerning the damages related to this torrential erosion, TERRASOL was once again called on by TOTAL in March 2012, this time to second a TERRASOL engineer on site for a one month period. His assignments were:

- An expert assessment of all the redevelopment works carried out to date,
- Supervision of works on a gabion and rockfill hydraulic structure.

Key features

- Disorder diagnostic
- Expertise of works already achieved
- Supervision of reinforcement works

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