



Location:
Caspian Sea, Offshore
Cheleken, Turkmenistan

Client:
Dragon Oil
(Turkmenistan) Ltd.

Materials:
Nax® Q80 UHPC

Materials qty:
113 mt

Project date:
February 2012

SUPERVISION OF DRILLING, INSPECTION AND ANNULUS GROUTING OF JACKET LEGS

DISCIPLINES:

- Offshore Contracting Services
- Strengthening and Repair of Subsea Structures
- Structural Brownfield Engineering
- Providing grouting services for offshore jacket legs

In February 2012, Nautec was contracted to carry out the supervision of drilling and inspection of jacket legs and grouting of the jacket legs annulus at the LAM-22 facilities Wellhead Platform, approximately 34km offshore Cheleken Harbour in the Caspian Sea.

SCOPE

- To carry out the supervision of drilling and inspection of jacket legs and grouting of the jacket legs annulus.

CHALLENGES

- Drilling and inspection were to be carried out prior to grouting of the annulus of the jacket legs to determine presence of existing grout in the annulus.
- There were 30 jacket legs at the Production platform and 12 jacket legs at the old accommodation platform to be inspected.

SERVICES

- The inspection of the jacket legs and the preparation of grouting inlets and outlets for structures that were grouted was carried out by divers from DOTL under the supervision of Nautec's offshore supervisors.
- Upon drilling and inspection 8 jacket legs from the Production platform, 2 jacket legs from the old accommodation platform were





UHPC, or Ultra High Performance Concrete and Composites are our business. We develop and produce UHPC products and we offer UHPC based solutions for multiple industries including the Renewable, Civil Construction, Ports, Offshore and Energy Industries.

We have documented the technical performance of our UHPC products through a large test program at MPA (Germany) which included creep and fatigue testing and we have carried out large-scale trials at low (European conditions) and high temperatures (Tropical conditions) to demonstrate the performance of our materials under severe weather conditions.

Our NaX® Premix Grouts are a portfolio of ultra high performance concrete and composites with strength and durability 10 times better than that of ordinary cement products.

SERVICES (continued)

- found to have existing grout in the annulus. The structures that were grouted were 22 jacket legs at the production platform and 10 jacket legs at the old accommodation platform.

CLIENT BENEFITS

- Nautec’s self-locking nozzle proved to be very effective, even with annulus width as small as 16mm. Nautec upgraded the platform structures by means of NaX® Q80 UHPC grouting to extend the production life of the platforms.
- All the deliverables were achieved with high quality and client acceptance.

