

Kazakhstan, Oil processing plant

Piling installation,



AARSLEFF

In 2003, Aarsleff signed one of its biggest piling contracts in the company history. In Kazakhstan, we were to drive and test 22,000 precast reinforced concrete piles in connection with the construction of a new oil processing plant. The piles varied in lengths from 12 to 16 metres with a dimension of 400x400 millimetres.

New production phase

The oilfields around Tengiz developed a lot at the time. The extraction capacity of the area was to be extended from 13 million tons of oil a year to over 25 million. This capacity was to be obtained by means of the new oil processing plant.

A place in the distant

The new plant was constructed to the south of an existing plant and processes the oil deposits that are collected from the Tengiz field at the Caspian Sea. The Tengiz field is among the biggest oil deposits in the world. The area around Tengiz was a big challenge in itself as it is situated in a distant part of Kazakhstan. In order to be able to keep

our fleet of five hydraulic fixed leader piling rigs operational for working on a 24-hour-per-day basis, we established a fully equipped workshop on site. The workshop was manned with two mechanics and one electrician.

Production better than planned

The project included an extensive pile test program with both static and dynamic pile tests. In order to cope with the ambitious time schedule, production was carried out in a round-the-clock operation. All our six piling rigs were operating in the day time, and some of the time, four of them were also operating in the night time. Our goal was to drive 20 piles per piling rig a day, but we actually obtained between 23 and 26 piles a day.



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Data

- Driving and testing of 22,000 precast reinforced concrete piles
- Pile lengths from 12 to 16 metres with the dimension 400x400 millimetres
- Six piling rigs from Denmark
- Own workshop brought along from Denmark with two mechanics and one electrician

Client

TengizChevrOil (TCO)

Type of contract

Subcontract

EPCM Contractor

PFD International LLC

Type of tender

Invited tendering

Construction period

June 2003 to February 2004

Contract sum

DKK 76 million

Aarsleff's Piling division is one of Europe's leading piling contractors, and we undertake a wide variety of piling, drilling and foundation projects in Denmark and abroad. We have offices in Poland, Sweden, Germany and the UK.

Our extensive fleet ranges from mini piling rigs to large specialised machines and covers fully hydraulic piling and drilling rigs as well as cranes and vibrators.

Contact

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