

Vertical / horizontal drain pumps for platforms at Nowrooz & Soroosh fields

The Nowrooz and Soroosh oil fields are situated in the Persian Gulf. Both fields are at water depths ranging from 30–40m. The fields have already been in operation, but the National Iranian Oil Company (NIOC) has agreed with SHELL to develop the fields further.

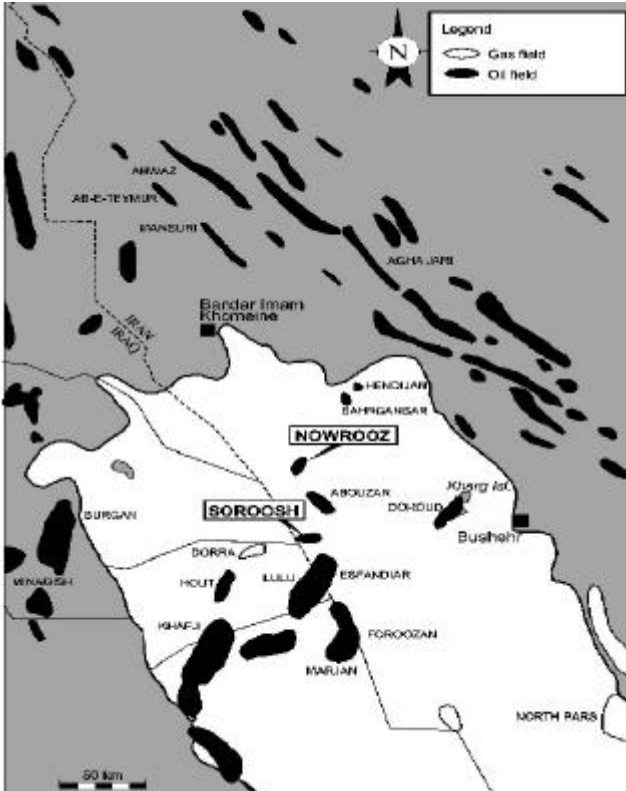


Figure 1 Location map

For the Project, a total of eight platforms will be installed in the two fields, including 3 production platforms.

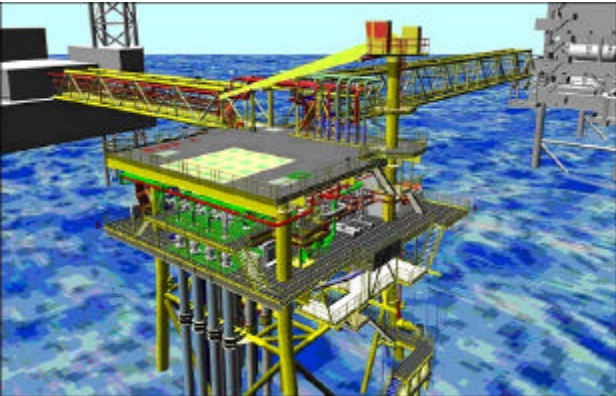


Figure 2 Platform

TECHNIP has carried out the design, engineering and procurement (with NPCC) for permanent production facilities.

BORNEMANN GMBH designed, manufactured and supplied beginning of January 2003 four (4) vertical and two (2) horizontal Progressive Cavity Pumps as drain pumps for the installation in the platforms. All the pumps (vertical and horizontal) are equipped with double acting cartridge type mech. seals (make Burgmann) and a flushing system acc. to API 682, plan 53M.

Technical Data:

Pump Type / Size:..... single screw / 2x E4H 1900
 Installation:..... horizontal
 Capacity: 10.0 m³/h
 Diff. Pressure: 21.0 bar
 Viscosity: up to 1,200 cSt
 NPSHreq..... 1.8 Meter



Figure 3 Pump model E4H 1900

Pump Type / Size:..... single screw / 4x E4U 1500
 Installation:..... vertical, tank installed
 Capacity: 5.0 m³/h
 Diff. Pressure: up to 23.7 bar
 Viscosity: up to 1,640 cSt
 NPSHreq..... 2.0 Meter



Figure 4 Pump model E4U 1500

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