

An application of Heavy Lifting techniques for the largest gas project in South America



▲ Front view of the heavy lifting

VSL was awarded in September 2002 a contract to lift 2 deethanizer towers 49 m high and weighting 175 Tons each in the Peruvian forest, north east of Lima.

Thanks to the close relationship between VSL Argentina and Sade-Skanska, we were able to sign the erection of the 2 towers on the Malvinas plant which is part of the Camisea gas project in Peru.

For this lifting, we used the towers stored in northern Chile's desert that had to be transported by road across the Andes 500 km east of Lima and then by river boat to the remote job site.

Scope of services performed

- Design and methods of the heavy lifting solution
- Design of foundations for auxiliary towers and lateral guys
- Design, supply and supervision of the installation of the auxiliary towers and cross beam
- Technical assistance during liftings

Equipment was sent from VSL Switzerland and supervision on site was carried out with the assistance of VSL Chile and VSL Switzerland technicians and engineers.

The design of the lifting as well as foundations for the lifting towers had been previously carried out thanks to the involvement of many engineers and draftsmen working in VSL Argentina, TCEU, VSL Switzerland as well as CTT-Stronghold.

Coordinating all these sources of information was not an easy task and many drawings revisions were necessary to achieve client's satisfaction.



▲ Deethanizer tower lowered onto foundation

Both liftings were completed just before the summer 2003 and following this job, VSL was able to secure 2 more liftings on another plant of the same project located in Pisco, close to the Pacific Ocean for the consortium Sade-Skanska and Graña y Montero.



▲ Detail of lifting lug of deethanizer tower

▼ Sequence of operations



OWNER :
Shell and PlusPetrol

ENGINEER :
PlusPetrol

CIVIL WORKS CONTRACTOR:
Graña y Montero

ERECTION WORKS CONTRACTOR:
Consorcio Sade-Skanska,
Latintecna and JJC

HEAVY LIFTING :
VSL

HEADQUARTERS

VSL International AG
Switzerland
Phone: +41 32 613 30 30
Fax: +41 32 613 30 55

REGIONAL OFFICES

Asia & Pacific
VSL-Intrafor Asia,
Hong Kong
Phone: +852 2590 22 88
Fax: +852 2590 02 90

**Central East Europe, Middle East,
France & French speaking
countries, Africa**
VSL France
France
Phone: +33 1 39 44 85 85
Fax: +33 1 39 44 86 86

**Iberian Peninsula, South Africa
and Latin America**
CTT Stronghold
Spain
Phone: +34 93 289 23 30
Fax: +34 93 289 23 31

www.vsl-intl.com

