



# Magnolia TLP

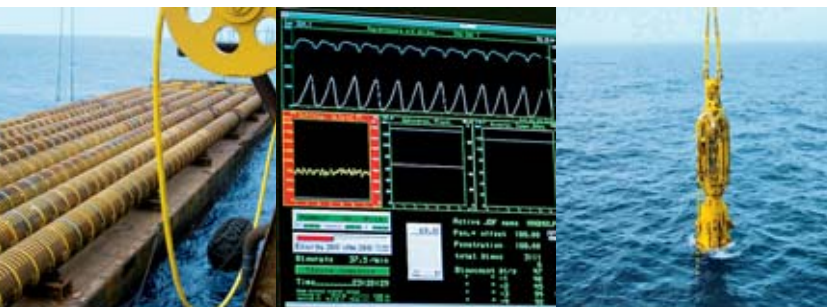
ConocoPhillips' Magnolia TLP foundation piles have been driven in a water depth of almost 4,700 ft, making Magnolia the deepest TLP installation to date in the world. The foundation tendon piles have an OD of 96 in reducing at the top to a receptacle for the tendons and a drive head of 81 in. The piles, with a length of 339 ft, were driven to a target penetration of 313 ft.

The installation was carried out from Saipem's heavy lift vessel S7000 in dynamic positioning mode. Saipem has used MENCK hammers

on numerous past projects ranging from the smallest to the mighty MHU 3000, the world's largest hydraulic pile hammer. They have also used MENCK's "slender" underwater power packs, but this is their first project using MENCK's complete deepwater system including an MHU 500T hydraulic hammer powered by MENCK's patented girdle style MUP underwater power pack.

The 8 piles were driven in 7 days with a driving time of approx. 8 hours per pile. The 7 days included the time for stabbing 4 of the 8 piles.

<b>Project name</b>	Magnolia TLP
<b>Client (end customer)</b>	ConocoPhillips (COPC)
<b>Contractor</b>	Saipem Inc., USA
<b>Location</b>	Garden Banks Block 783-784, Gulf of Mexico
<b>MENCK operational start</b>	March 3rd, 2004
<b>MENCK operational end</b>	March 10th, 2004
<b>Water depth</b>	4,660 ft – new world record (2004)
<b>Installation vessel</b>	Saipem S7000
<b>Quantity of piles</b>	8
<b>Pile diameter</b>	96 in
<b>Hammer</b>	MHU 500T
<b>Power pack</b>	MUP
<b>Mobilisation/Demobilisation by</b>	Saipem Inc., USA
<b>Mobilisation harbour</b>	Amelia, Louisiana, USA
<b>Demobilisation harbour</b>	Amelia, Louisiana, USA
<b>MENCK's scope</b>	Pile installation subcontract
<b>MENCK engineering</b>	Project management, prepare deck layout, review installation procedures



Tendon piles

MENCK Monitoring (MHC 21)

MHU 500T

MENCK GmbH  
 Industrial Area Moorkaten  
 Am Springmoor 5a  
 24568 Kaltenkirchen  
 Germany  
 Tel. +49 (0) 4191-911-0 or  
 +49 (0) 1805-GET MENCK  
 Fax +49 (0) 4191-911-100  
 info@menck.com  
 www.menck.com