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MENCK

Medusa SPAR

an **ACTEON** company

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Murphy Oil's Medusa SPAR was installed in the Gulf of Mexico in 2002. The platform is anchored by a 10 point mooring system consisting of 10 piles of 84 in OD. The moorings were pre-laid by a MENCK service team onboard the DB-50.

In order to reduce barge time and avoid additional ROV work the project team decided to install the made up mooring leg in one run.

For each mooring point the pile was made up complete with chain and mooring line

and subsequently connected to the piling hammer. The pile was then lowered and stabbed in the seabed, after which driving operations commenced. When target penetration was reached the hammer was disconnected from the pile and retrieved to surface for the next cycle.

MENCK's service team using MENCK's MHU 500T Deepwater Pile Driving System installed the mooring legs in 15 hours average per pile in 2,330 ft water depth.

Project name	Medusa SPAR
Client (end customer)	Murphy Oil Corporation
Contractor	J. Ray McDermott, USA
Location	Mississippi Canyon Block 582, Gulf of Mexico
MENCK operational start	July 10th, 2002
MENCK operational end	July 19th, 2002
Water depth	2,330 ft
Installation vessel	DB-50
Quantity of piles	10
Pile diameter	84 in
Number of blows per pile	2,800 to 4,000
Hammer	MHU 500T
Power pack	MUP
Mobilisation/Demobilisation by	J. Ray McDermott
Mobilisation harbour	Mobile, Alabama, USA
Demobilisation harbour	Amelia, Louisiana, USA
MENCK's scope	Pile installation subcontract
MENCK engineering	Project management, review installation procedures



Assembly umbilical to hammer

Anchor piles on transport barge

Connecting pile to hammer

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