



Ursa TLP

Shell's Ursa tension leg platform is the largest (1998) TLP, in a row of four floaters installed in the Gulf of Mexico since 1992. Similar platforms presently on-stream are Shell's Auger, Mars and Ram/Powell TLP. The anchor piles comprise a 96 in OD main section penetrating the soil, an intermediate piece reducing the diameter to 82 in, a receptacle section and the 81 in drive head.

Energy level settings of the hammer are pre-described based on fatigue calculations of piles and receptacles.

MENCK's MHU 500T MUP Deepwater Pile Driving System drove 16 piles in 7 days with 4.5 hrs. net driving time and 9,400 blows per pile.

Project name	Ursa
Client (end customer)	Shell Offshore Inc., USA
Contractor	Heerema Marine Contractors, Netherlands
Location	Mississippi Canyon, Block 810, Gulf of Mexico
MENCK operational start	November 18th, 1998
MENCK operational end	November 25th, 1998
Water depth	3,805 ft – new world record (1998)
Installation vessel	SSCV Balder
Quantity of piles	16
Pile diameter	96 in
Number of blows per pile	9,400
Hammer	MHU 500T
Power pack	MUP
Mobilisation/demobilisation by	Heerema Marine Contractors, Netherlands
Mobilisation harbour	Taken over offshore (ex Allegheny project)
Demobilisation harbour	Amelia, Louisiana
MENCK's scope	Pile installation subcontract
MENCK engineering	Review deck layout and installation procedures



MHU 500T with MUP

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