

# "LAY VESSEL NORTH OCEAN 105"



## PRINCIPAL PARTICULARS

|                          |           |
|--------------------------|-----------|
| Length ovel all.....     | 132,44 m. |
| Length between p.p. .... | 120,40 m. |
| Breadth moulded.....     | 27,00 m.  |
| Depth main deck.....     | 9,70 m.   |
| Depth tween deck.....    | 6,20 m.   |
| Max. Draft.....          | 6,85 m.   |
| Gross tonnage.....       | 11.000 T. |

## CAPACITIES

|                    |                      |
|--------------------|----------------------|
| Deck Area.....     | 2.000 m <sup>2</sup> |
| Fuel-Oil.....      | 2.000 m <sup>3</sup> |
| Fresh Water.....   | 1.000 m <sup>3</sup> |
| Ballast Water..... | 6.500 m <sup>3</sup> |

## CLASS

Det Norske veritas+1A1, HELIDECK, DYMPOS, AUTR, DK, (+), EO, CLEAN, CONF(V3) NAUT-OSV

## ACCOMMODATION

Total number of crew.....120 persons

## EQUIPMENT FOR CARGO

DECK CRANE (1)  
Make: *National oilwell*.....OC4500BSCE  
Max. Lifting capacity.....400 T.

DECK CRANE (2)  
Make: *National oilwell*.....AHC Knuckle Boom  
Max. Lifting capacity.....100 T.

## PROVISION CRANE (2)

Make: *TTS* - Type.....GP80-2-12  
Max. Lifting capacity.....2 T. a 12 m

## MOON POOL HATCH

Designed by.....*SP Consultores*  
Size.....6,50 x 7,70 m.

## DECK MACHINERY

ANCHOR MOORING WINCH (2) Electro-hydraulic  
Make: *Ibercisa*.....MAN-H/H/60  
CAPSTAN (2) Electro-Hydraulic  
Make: *Ibercisa*.....MAN-H/50

## MANOEUVRING SYSTEM

AZIMUTH THRUSTER (2)  
Make: *Rolls-Royce* - Type.....AZP-120  
Power.....3.500 Kw.  
Gear reduction.....2,26:1  
Motor Make.....*Alconza*

TUNNEL THRUSTER (2)  
Make: *Rolls-Royce* - Type.....TT-2400  
Power.....1.500 Kw.  
Motor Make.....*Alconza*  
Propeller diam.....2.400 mm.

SWING THRUSTER (1)  
Make: *Rolls-Royce* - Type.....TCNS-92/62  
Power.....1.500 Kw.  
Motor Make.....*Alconza*

## DYNAMIC POSITIONING SYSTEM

Make: *Kongsberg Simrad* - Type.....DPC21

## DIESEL ELECTRIC PROPULSION SYSTEMS

ENGINES (4)  
Make: *Wartsila* - Type.....7L32  
Power.....3.360 Kw at 720 r.p.m.  
GENERATOR (4)  
Make: *Alconza* - Type.....NIR 7185 A-10LW  
Power.....3.250 Kva at 720 r.p.m. 690V/60Hz.

## HARBOUREMERGENCY GENERATOR

ENGINE  
Make: *Caterpillar* - Type.....C-32  
Power.....994Kw. at 1.800 rpm.

## GENERATOR

Make: *Leroy Somer* - Type.....LSA M-50.2 M-6  
Power.....690V/60Hz.....952 Kw.

## MACHINERY SYSTEMS

PUMPS  
Make: *Azcue*

BILGE WATER SEPARATOR  
Make: *Facet Iberica* - Type.....CPS-10B-2,5

STARTING AIR COMPRESSOR (2)  
Make: *Sperre* - Type.....HL2/160

SERVICE AIR COMPRESSOR (1)  
Make: *Tamrotor* - Type.....TMC-65-9  
Capacity.....8,27 m<sup>3</sup>

LUB-OIL SEPARATOR (2)  
Make: *Alfa Laval* - Type.....PU-150

FUEL OIL SEPARATOR (2)  
Make: *Alfa Laval* - Type.....PU-150

FRESH WATER GENERATORS (2)  
Make: *Aquamar* - Model: 25/2  
Capacity.....25T/day each

INCINERATOR (1)  
Make: *Detegasa* - Type.....DELTA IRL-65  
Capacity.....650.000 Kcal/h

ANTI-HELLING SYSTEM (1)  
Make: *Framo* - Type.....RBP 300  
Flow.....1.000 m<sup>3</sup>/h

TANK SOUNDING SYSTEM  
Make: *Ariston-Norway*

## SHIP'S SYSTEM

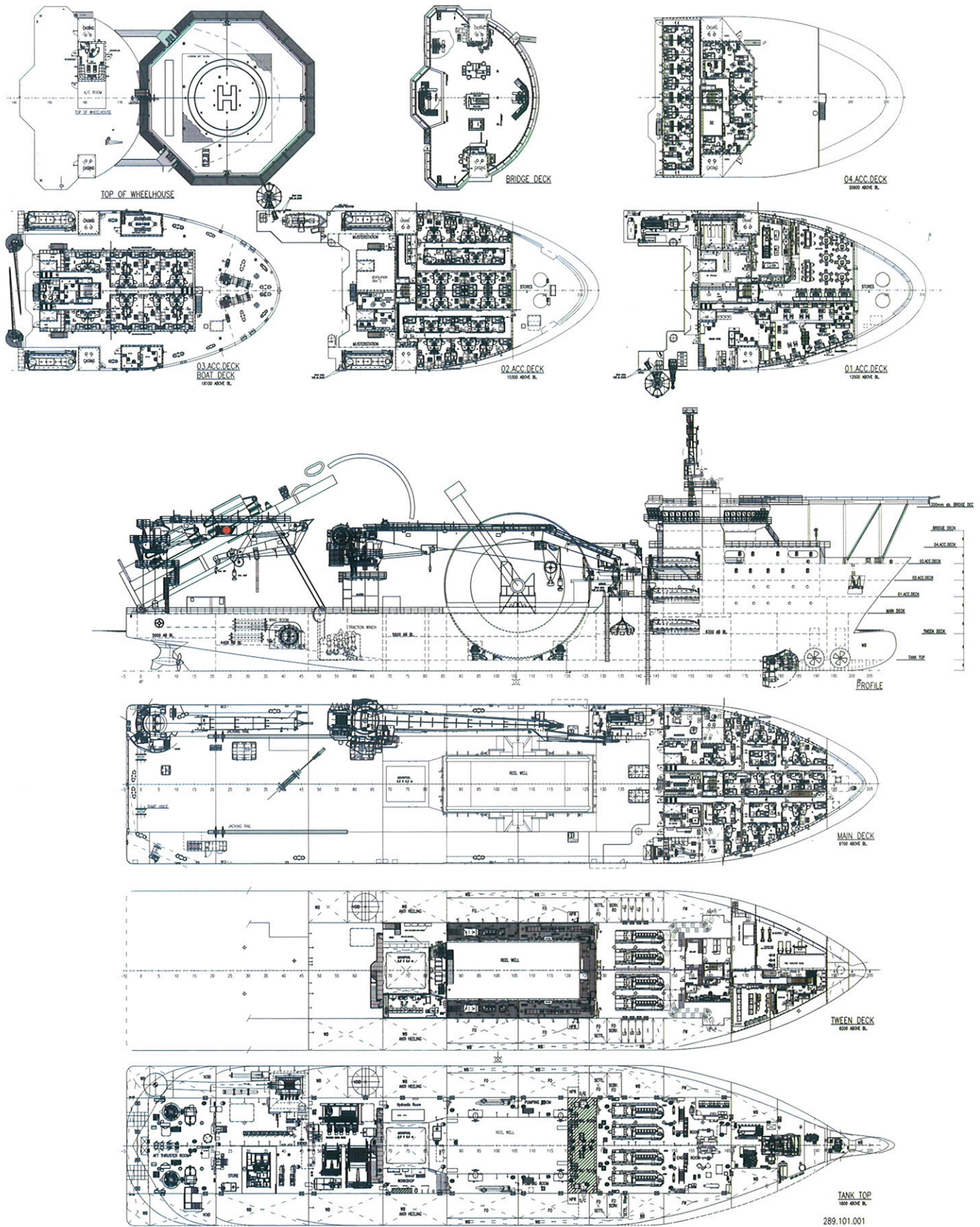
Automation system.....*AKER/Stadt Automation*  
Electric installation company.....*Isolux*  
Ventilation/Air conditioning system.....*Novenco*  
Accommodation.....*Regenasa*



**MetalSHIPS**  
& DOCKS, S.A.U.

# "LAY VESSEL NORTH OCEAN 105"

CONSTRUCTION PIPELAY VESSEL



289.101.001



**MetalSHIPS**  
& DOCKS, S.A.U.  
GRUPO RODMAN

**PRINCIPAL PARTICULARS**

|                             |          |
|-----------------------------|----------|
| LENGTH OVER ALL:            | 132,44 M |
| L.O.A. WITH HELIDECK:       | 135,65 M |
| LENGTH BETWEEN PERP.:       | 120,40 M |
| BREADTH MOULDED:            | 27,00 M  |
| DEPTH MAIN DECK:            | 9,70 M   |
| MAX DRAFT:                  | 6,85 M   |
| FRAME SPACING:              | 0,60 M   |
| ACCOMMODATION FOR 120 PERS. |          |
| 24 x 1 MAN CABINS           |          |
| 48 x 2 MAN CABINS           |          |

| NO. | DESCRIPTION             | DATE     | BY | CHECKED | APPROVED |
|-----|-------------------------|----------|----|---------|----------|
| 1   | GENERAL ARRANGEMENT     | 20.10.09 |    |         |          |
| 2   | SAW 2022 PIPELAY VESSEL |          |    |         |          |
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