



# QMS SENTINEL

275 POB SELF-PROPELLED, SELF-ELEVATING BARGE  
(EQUIPPED WITH RIGLESS EQUIPMENT FOR WELL TESTING OPERATIONS)

Year of Delivery	: Dec 2018
Port of Registry	: Panama
Flag	: Panama
IMO Number	: 9769958
Class	: ABS, A1, Self-Elevating Unit, AMS, DPS-2, CPS CRC (OC-PL) HELIDK (SRF) ENVIRO-OS

## GENERAL

Length Overall	: 101.20 m
Hull Length	: 82.50 m
Hull Breadth	: 44.00 m
Hull Depth	: 6.50 m
Design Draft	: 3.35 m
Max. Deck Load	: 7.5 tons/m <sup>2</sup>
Free Deck Space	: 1900 m <sup>2</sup>
Max. Speed	: 6 kts.
Variable Load	: 2200 tons
Max. Water Depth	: 85 m

## LEGS

4 Nos. Triangular Lattice Type  
110 m leg length  
11.43 x 9.6 x 2.9 m min spud Can Rectangular  
82 m<sup>2</sup> foot spud cans foot area allowing operational depth 80 m with 10m gap

## JACKING SYSTEM

Jacking system	: Electro- Rack & Pinion Type
Jacking Speed	: 0.8 m/min
Pinion Per Leg	: 18 Pinion per leg (Total 72)
storm Holding Capacity	: 360 ton/pinion

## ENVIRONMENT CRITERIA

Normal Operating Conditions	: 70 Kts. wind @ 60 m water depth
Storm Conditions	: 100 Kts. wind @ 40 m water depth
Max. Wave Length	: 10 m

SUITABLE FOR OPERATIONS UNDER NORTH SEA WEATHER CRITERIA

## TANK CAPACITY

Fuel Oil	: 1000 m <sup>3</sup>
Fresh Water	: 610 m <sup>3</sup>
Ballast Water	: 2691 m <sup>3</sup>
Brine	: 200 m <sup>3</sup>
Fresh Water maker	: 1 x 75 ton/day RO type

## MACHINERY

Diesel Electric Main Diesel Generator	: 6 x CAT 3516B 1717 Kw each, 690 V, 50 Hz.
Emergency Generator	: 1 x CAT C18 306 kW, 400 V, 50 Hz.

## PROPULSION

Bow Thruster	: 3 x 1100 kW, Tunnel Type CPP
Azimuth Thruster	: 3 x 1300 kW, Well Type, VFD, FPP

## ACCOMMODATION

Total Accommodation for 275 POB (Upgradable to 500 POB)  
Fitted with Sprinkler System.

## NAVIGATION EQUIPMENT

Radar x-band with ARPA (1), S-Band (1), Auto pilot, VDR(1), AIS (1), ECDIS (2), Gyro Compass (3), Magnetic Compass (1), Fixed CCTV System(1), Doppler system log (1), Bridge Navigation Watch Alarm system(BNWAS) (1), Aviation Homing beacon (1), Anemometer and Anomoscope (1 set), weather Fascimile receiver (1), Integrated Electronic Control system - Joystick /Dp2 System (1) 360 Deg. VIEW FROM WHEELHOUSE

## CRANE

Main Crane	: 2 x 300 ton @ 15 m, 50 ton @ 43 m (API 2c. Zone II or crane Zone 1 for Boom)
Auxiliary Crane	: 50 ton @ 10 m, 10 ton @ 25 m (API 2c Zone II)

## DECK EQUIPMENT

Anchor Winches	: 3 x Electro-Hydraulic 540 kN @ 9m/min , 1000 m x 46 mm wire : 1 x Electro- Hydraulic 290 kN, 500m x 80 mm wire
Tugger Winches	: 1 x Electric 45 kN @ 12m/min, brake 120 kN, 50 m x 20 mm dia wire for towing bridle

## HELIDECK

Material	: Aluminium Octagonal
Diameter	: 22.2m
Load	: 12.60 tons

Helideck can accommodate a Sikorsky S92A-S61N and has a full AFFF firefighting system. The Helideck is designed as per CAP 437 and ABS regulations with SRF notation including refueling

## DP SYSTEM

Kongsberg K-POS 21, 2 x Operators station, 3 x Gyro Compass (Sperry navigat X MK 1), 3 x wind sensor (Gill Wind Observer), 2 x motion reference sensors (KONGSBERG MRU D Motion Reference unit), 1 x spot track / fanbem, 1 x Kongsberg Radius 1000, 2 x Printers, 2 x uninterrupted power supply system, 1 x independent Joystick control

## ADDITIONAL

- Kingposts and boom to accommodate Client's Burner Booms
- 4 x Sour Gas Lines to link burner booms to process manifold cement.
- Brine system includes pumps, valves, tanks.
- High volume air Compressors
- A 60 Fire insulation under main deck process equipment
- Four mooring Winches
- Deluge System

## COMMUNICATION EQUIPMENT

MH/HF radio (1), VHF Radio (3), Two-way Radio Telephone (7), SART (7), EPIRB (1), Portable VHF Walkie - Talkie (4), VSAT (1), Inmarsat-c with SSAS & LRIT -2

## SAFETY & FIRE-FIGHTING

Lifeboat	: 5 x 120 men
Rescue Craft	: 1 x 15 men Jet drive
Life Raft (Davit)	: 12 x 25 men
Fire Fighting	: 600 m <sup>3</sup> /hr with 2 sets of fire monitors