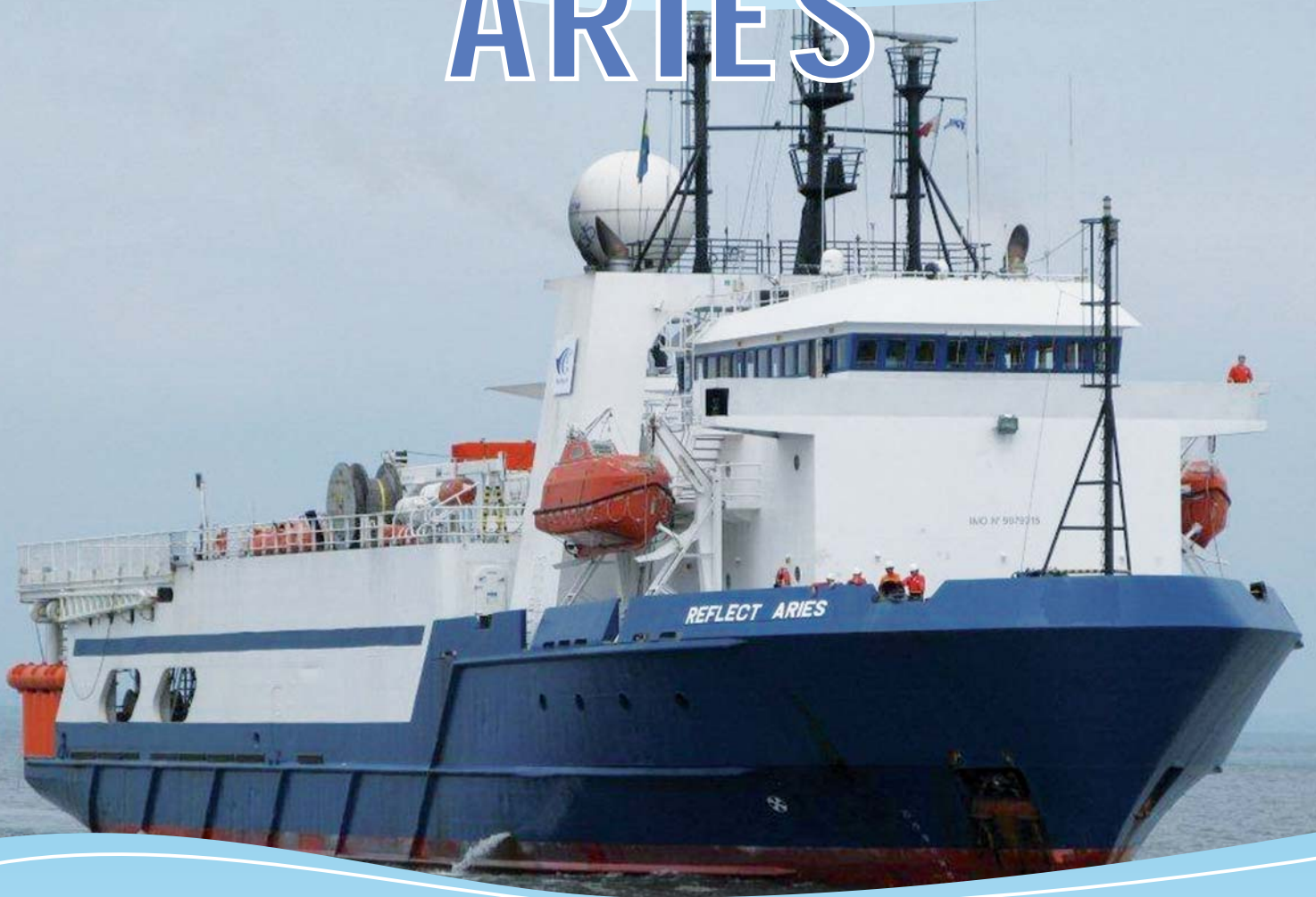


# REFLECT ARIES



***Reflect on Your  
Seismic Needs***



***Reflect***

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# REFLECT ARIES

## SEISMIC VESSEL SPECIFICATIONS

Owner of the vessel: Shangshai Offshore Petroleum E & D Corporation  
Flag: ̄ Port of registry: Bahamas, Nassau  
Date build: 1993  
Call Sign: • Class: C6UN7 • DNV-1A1 Supply Vessel, EO  
IMO #: 9079315

## ACCOMMODATION

Total number of berths: 40  
Hospital: 1  
Helideck: D-Value not assigned / rated for Sikorsky 76

## AIRGUNS

Manufacturer: Sercel  
Type: G-Guns I  
Operating pressure: 2000 psi nominal  
Chambers 40-520 cubic inch  
Maximum number of sub arrays: 6

## STREAMER

Manufacturer: Sercel  
Type: Seal ALS, 24-bit Digital  
Streamer configuration: 1x 12,000m 2 x 6,000m, 3 x 4,000m  
Group spacing: 6.25m, 12.5m, 25m  
Hydrophones type: SLH 20 or Benthos Geopoint.  
Group sensitivity: 17.4 V / Bar

## STREAMER CONTROL

Depth controllers: DigiCourse 5011 Compass Bird  
Heading measurements: DigiCourse 5011 Compass Bird  
Steering control: DigiCourse DigiFin

## RECORDING INSTRUMENTS

Manufacturer: SERCEL  
Type: Seal  
Number of available channels: 960 – 1920 (depending sampling rate)  
Number of auxiliary channels: 16  
Recording format: SEG D 8058  
Sampling rate: 0.25, 0.5, 1,2,4 ms  
Recording media: IBM 3592 / LT03  
Online QC: SeaPro QC

## ON-BOARD DISPLAYS

Single trace recorder: OYO Geospace  
Type: GS 624-2

## SAFETY

FRC: Jorgensen & VIK/Tot. Covered  
Life rafts: 6 x 32 man

## FIRE FIGHTING AND TYPE

Engine room: CO2  
Compressor room: CO2  
Instrument room: CO2 + portable extinguishers  
Streamer reels: Foam  
Firemen outfit: 3  
Breathing apparatus: 3  
Fire pumps: Aurora344A BF located in E/R & Compressor Room

## NAVIGATION AND COMMUNICATION

VHF radio: Fully GMDSS Equipped A1, A2, A3  
GMDSS: A1, A2, A3  
Navtex: Alden  
Inmarsat receiver: VSAT  
Radar 1: Furuno FAR-2825 Type RDP-115A  
Radar 2: Furuno FAR-2825 Type RDP-115A  
Radar 3: Furuno FR 1510D 9 GHz  
GPS: Navigator  
Autopilot: Robertson AP9 MK II  
Gyro: Sperry MK37 MOD1  
Echo sounder: International Offshore Data Marine  
Voyage data recorder: Anthea

## DIMENSIONS

Length: 70.10m  
Beam: 18m  
Mean draft: 4.56m  
Gross tonnage: 2722  
Maximum speed: 12 knots  
Cruising speed: 10 knots  
Fuel capacity: 783,031.8 m<sup>3</sup>  
Endurance: 46 days  
Main engine: 2 x Caterpillar 3606 / 1877KW  
Blades, propeller: 4 Blade / C.P. / Nickel Aluminum Bronze  
Rudder: • Bow thruster: 1 x Bow Tunnel Detroit 12v 7681  
400 HP • Detroit – 12v - 7681  
Electric Power: 2 x Caterpillar 3412 / 500 KW each

## INTEGRATED NAVIGATION SYSTEM

Manufacturer: Concept Systems Ltd (ION)  
Type: ORCA  
Platform: Linux  
Binning system: ORCA-Reflex

## POSITIONING SYSTEMS

### D.GPS

Manufacturer: C-Nav / Veripos  
Type: C-Nav – 2050 System © w / C-Navigator  
Receiver: C-Nav Dual Frequency Receiver

### r.GPS

Manufacturer: Seamap  
Type: Bouylink, RGPS Seismic Buoy Tracking

## GYROCOMPASS

Manufacturer: Sperry Marine  
Type: X MK1

## ECHOSOUNDER

Manufacturer: Simrad  
Type: EA600  
Frequency: 12 and 38 kHz

## STREAMER COMPASSES

Manufacturer: DigiCourse (ION)  
Type: DigiCourse 5011E Compass Bird

## ACOUSTICS

Manufacturer: DigiCourse (ION)  
Type: DigiCourse CMX units (cable tx/rx)  
DigiCourse 5011E Acoustics Bird (cable rx)  
DigiCourse CMX units (source tx/rx)  
r.GPS, compasses and acoustics  
r.GPS and acoustics

## ON-BOARD NAVIGATION DATA FINAL PROCESSING AND QC

Software description: Sprint 3D  
Final data products: UKOOA P1/90  
Platform: Linux

## ON-BOARD SEISMIC DATA QC AND PROCESSING

Software: Globe Claritas  
Platform: Linux  
CPUs: 24x Intel Xeon 3GHz  
RAM: 2 servers 32 Gb each  
Disk Capacity: 24 Tb RAID-5  
Capability: Extensive QC and full onboard processing

## IN WATER MAINTENANCE

Manufacturer: Norpower  
Type: Twin 35HP two stroke