



# HERCULES

## 300 CLASS PSV DP-2 PLATFORM SUPPLY VESSEL

### REGISTRATION

Owner	GulfMark Americas, Inc.
USCG Official #	1267677
Year Built	2016
Builder	BAE Southwest Shipyards
Flag	U.S.A.
Classification	ABS *A1(E) Offshore Support Vessel, *AMS, *ACCU, *DPS-2, UWILD, FFV Class 2, *Safety Standby Service GR B – (300), ENVIRO, GP, HAB (WB) Oil Recovery Capability Class 2, BWT, SPS, SOLAS, USCG Subchapter L/I, Full Ocean

### MAIN CHARACTERISTICS

Length Overall	288 ft	(87.90 m)
Length Between Perpendiculars	266.5 ft	(81.23 m)
Beam	62 ft	(18.80 m)
Depth	26 ft	(8.00 m)
Max Draft	21 ft	(6.50 m)
Air Draft	105 ft	(31.9 m)
Operating Displacement	8,218 Mt	

### CAPACITIES

Deadweight	5165 lt (5250 mt)
Cargo Deck Area	10,763 ft <sup>2</sup> (1,000 m <sup>2</sup> )
Cargo Deck Loading	1,025 lbs per ft <sup>2</sup> (5 mt per m <sup>2</sup> )
Cargo Deck Dimensions	205 ft x 52.5 ft (62.5 m x 16.0 m)
Fuel Oil Cargo	6,919 bbl (290,589 gal) (1,100 m <sup>3</sup> )
Bulk Mud	11,440 ft <sup>3</sup> (6 tanks) (324 m <sup>3</sup> )
Liquid Mud	15,113 bbl (8 tanks) (2,403 m <sup>3</sup> )
Rig Water	10,378 bbl (435,884 gal) (1,650 m <sup>3</sup> )
Cargo Fresh Water	6,447 bbl (270,776 gal) (1,025 m <sup>3</sup> )
ORO Capability	4,439 bbl (186,438 gal) (706 m <sup>3</sup> )
Methanol	2,356 bbl (98,952 gal) (374 m <sup>3</sup> )

### PERFORMANCE

Top Speed Max Draft	14 kts @ 330 gph
Top Speed Light Draft	16 kts @ 300 gph
Economical Mode	13 kts @ 220 gph
PTO/PTI Green Mode	12 kts @ 168 gph
PTO/PTI Green Economical Mode	10 kts @ 124 gph
DP Mode	Stationkeeping @ 110 – 130 gph

### DYNAMIC POSITIONING SYSTEM (CLASS II)

ABS classed DP2 Kongsberg K-Pos 21 consisting of:

- 2 x DP Operator Stations
- 3 x DGPS Receivers
- 1 x Cyscan MK IV Laser System
- 1 x Mini-Rada Scan Microwave System
- 3 x Gill Wind Sensors
- 3 x TSS Meridian Gyro Compasses
- 3 x Motion Reference Units
- 1 x Portable Joystick Control System
- 1 x HiPAP 500 Gate Valve

### FIRE FIGHTING VESSEL (FFV CLASS II)

3 Water Monitors with a discharge rate of 2,400m<sup>3</sup> / Hr (10,560 gpm)  
 Range of 150m (492 ft) and a height reach of 70m (230 ft)  
 2 Pumps capable of 7,200m<sup>3</sup> / hr (31,680 gpm)  
 Mobile foam generators capable of 100m<sup>3</sup> / min (3,530 ft<sup>3</sup> / min)

### SAFETY STANDBY SERVICE GR B (300)

2 x FRCs with LSA Code compliant wave compensated davits (15 person capacity)  
 Scramble nets  
 20 berths for survivors (in addition to normal accommodations)  
 Dedicated wash and toilet facilities for survivors  
 Medical Treatment Facility (Hospital) (1 hospital bed)  
 Medical Recovery Room (2 bunks)  
 All required equipment for 300 survivors

### PROPULSION - MACHINERY

Total Installed Power	8,065 kW (10,815 hp)
Main Engines	2 x 3,000 kW (8,046 total hp)
Shaft Generators	2 x 2,000 kW (2,680 hp) 690 V / 60 Hz
Auxiliary Generators	2 x 550 kW 480 V / 60 Hz (CAT C18A)
Emergency Generator	1 x 138 kW, 480 V / 60 Hz
Main Propulsion	2 x 3,000 kW each (4,023 hp each) CPP
Retractable Bow Thruster	1 x 880 kW (1,180 hp) retractable azimuthing thruster with independent diesel engine (CAT C32)
Bow Tunnel Thruster	1 x 846 kW (1,134 hp) variable speed thruster
Stern Tunnel Thrusters	2 x 846 kW (1,134 hp) variable speed thruster

### CARGO DISCHARGE

Fuel Oil	660 gpm at 295 ft TDH (150 m <sup>3</sup> /h at 90 m TDH)
Rig Fresh Water	660 gpm at 295 ft TDH (150 m <sup>3</sup> /h at 90 m TDH)
Liquid Mud(LM)	660 gpm at 197 ft TDH (4 x 150 m <sup>3</sup> /h at 60 m TDH)
LM Segregated System	Integrated / Segregated (4 systems, 2 tanks per system) Paddle Mixers (2 per cargo tank)
LM Agitation	Dual Nozzle
LM Tank Cleaning System	100 mt/h @ SG 2.16
Bulk Material (BM)	Integrated / Segregated (3 Tanks each system)
BM Segregated System	330 gpm @ 295 ft TDH (75m <sup>3</sup> /hr @ 90m TDH)
Methanol/MEG/TEG	

### DECK EQUIPMENT

Tugger Winch	2 x 10 mt pull
Deck Cargo Crane	1 x 1.8 Lt (2 Mt) @ 12m (man riding for Safety Standby)
Anchor Windlass	2
Capstans	2 x 8 mt pull
Crane	Crane foundation installed for a 110 Mt crane

### CONTROL & SAFETY

Fully integrated DP / control dual redundant system  
 Alarm, monitoring and control system for periodically unattended machinery space  
 Remote control and monitoring of all cargo systems

### ELECTRONICS

2 Radars with ARPA	1 EPIRB
3 Navigation Gyro Compasses	2 SARTS
1 Autopilot	4 UHF, 3 VHF (bridge to bridge)
1 Depth Sounder	1 Navtex
1 Speed Log	1 PA / Loud Hailer
1 GMDSS	1 Aeronautical Band VHF
1 ECDIS Unit	1 BNWAS

### ACCOMMODATION

Fully Air-conditioned  
 Accommodations for 60 people consisting of:  
 12 x 1 man cabins  
 24 x 2 man cabins  
 Galley, Provision Room, Stores, Mess  
 Walk in Refrigerator  
 Walk in Freezer

### OIL RECOVERY CAPABILITY (CLASS 2)

Recovery of oil with a flash point over 60 degrees C  
 Designated tanks, piping systems, vents for oil recovery  
 Multi-gas detectors