GULFMARK

TOUCHDOWN

230 CLASS PSV DP-2 PLATFORM SUPPLY VESSEL

Environmentally friendly diesel electric propulsion uses less fuel than conventional direct drive systems and produces far less pollution. Vessels designed to maintain a speed of 13 knots at loadline (fully loaded condition), up to 20% faster than most existing vessels of equal size. Liquid mud tank capacity and delivery capabilities typically found only in much larger vessels. Oval liquid mud tanks with a self-cleaning system provide maximum circulation and are more cost-effective to clean than traditional square tanks.

REGISTRATION

Owner	GulfMark Americas, Inc.
USCG Official #	1204686
Year Built	2008
Builder	Bollinger Shipyards Inc.
Flag	U.S.A.
Classification	ABS ✠A1, ✠AMS, ✠DPS-2, Ⓔ, SOLAS, USCG Subchapter L, Full Ocean

MAIN CHARACTERISTICS

Length Overall	225 ft	(68.58 m)
Length Between Perpendiculars	205 ft	(62.66 m)
Beam	46 ft	(14.00 m)
Depth	18 ft	(5.50 m)
Operating Draft	14 ft	(4.30 m)
Operating Displacement	2,979 lt	(3,027 mt)
Light Draft	6.7 ft	(2.04 m)
Gross Registered Tonnage	1,691	GRT

CAPACITIES

Deadweight	(2,117 lt) 2,151 mt
Cargo Deck Area	(145 ft x 37.3 ft) 5,408 ft^2 (44.2 m x 11.35 m) 501.67 m^2
Cargo Deck Loading	1,024 lbs / ft^2 (5 mt / m^2)
Fuel Oil Tanks	4,562 bbl (143,710 gal) (544 m^3)
Fuel Oil Day Tank	126 bbl (5,280 gal) (20 m^3)
Bulk Mud	5,500 ft^3 (4 tanks) (156 m^3)
Liquid Mud	6,000 bbl (12 tanks) (954 m^3)
Rig Water	4,688 bbl (147,672 gal) (559 m^3)
Cargo Fresh Water	3,279 bbl (103,291 gal) (391 m^3)
Ship Fresh Water	214.3 bbl (9,000 gal) (34 m^3)

PERFORMANCE

Top Speed	12.5 knots @ 140 gph
Cruising Speed	11 knots @ 110 gph
Economical Speed	10 knots @ 85 gph
DP Mode	40 gph

DYNAMIC POSITIONING SYSTEM (CLASS II)

ABS classed DP2 Redundant Positioning System consisting of:
2 BAS IVCS Consoles
2 Leica MX 420 / 2 DGPS
1 Cyscan Laser Reference Unit
2 RM Young Anemometers
2 Vertical Reference Units
2 SG Brown Meridian Gyro Compass
2 DP Alarm and Event Printers
2 4 kVA Uninterrupted Power Supply
1 Independent Joystick Control System

PROPULSION - MACHINERY

Total Installed Power	2,905 kW (3,894 hp)
Main Diesel Generators	2 x 1235 kW (1,655 hp) 480 VAC, 60 Hz (Cummins KTA50) 1 x 435 kW (583 hp) 480 VAC, 60 Hz (Cummins KTA19)
Emergency Generator	1 x 113 kW (151 hp) 480 VAC, 60 Hz (Cummins / Onan DGDK)
Main Propulsion	2 x 843 kW (1,130 hp) Z-Drive, 360º azimuthing thruster 1 x 843 kW (1,130 hp) Z-Drive, fixed thruster
Bow Tunnel Thrusters	2 x 560 kW (750 hp) fixed pitch variable speed thrusters

CARGO DISCHARGE

Fuel Oil	600 gpm at 200 ft TDH (136 m^3 / h at 60 m TDH)
Rig Fresh Water	660 gpm at 196 ft (150 m^3 / h at 60 m)
Liquid Mud (LM)	660 gpm at 196 ft (150 m^3 / h at 60 m)
LM Segregated System	Integrated / Segregated (6 Tanks each system)
LM Agitation	Flygt Mixers
LM Tank Cleaning System	Butterworth
Bulk Material (BM)	Compressors rated for 55 st / hr at 196 ft (50 mt / hr at 60 m)
BM Segregated System	Integrated / Segregated (2 Tanks each system)

DECK EQUIPMENT

Rescue Boat	1 x MOB boat with davit SOLAS cargo ship safety equipment
Anchor Windlass	1
Roll Reduction System	Bilge Keels

CONTROL & SAFETY

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

ELECTRONICS

2 Radars with ARPA	1 EPIRB (2 radar transponders)
1 Navigation Gyro Compass	5 UHF, 4 VHF (bridge to bridge)
1 Autopilot	1 Weather Fax
1 Depth Sounder	1 Navtex
1 Speed Log	1 PA / Loud Hailer
1 Radio System	Compliant

ACCOMMODATION

Fully Air-conditioned
Accommodations for 16 people consisting of:
4 x 2 man cabins
2 x 4 man cabins
Galley, Provision Room, Stores, Mess

These particulars should be taken as indicative and do not constitute a warranty. For additional information, please contact GulfMark Americas at chartering.americas@gulfmark.com or at www.GulfMark.com.

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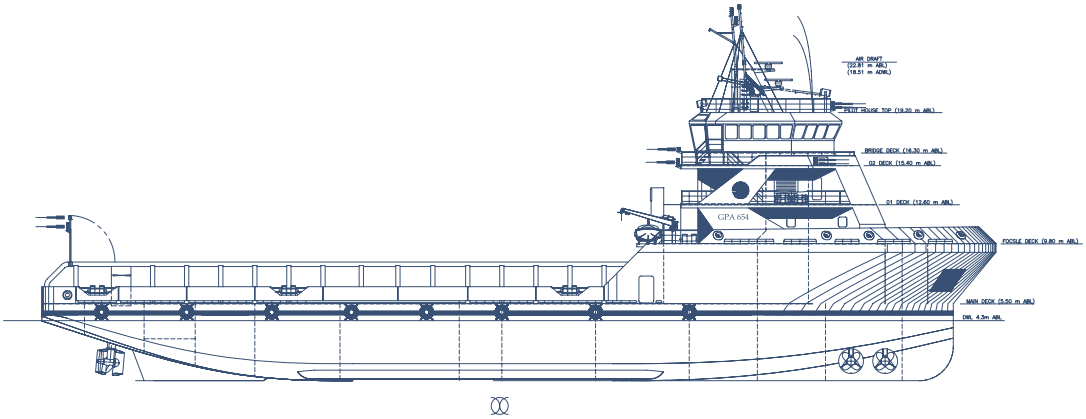
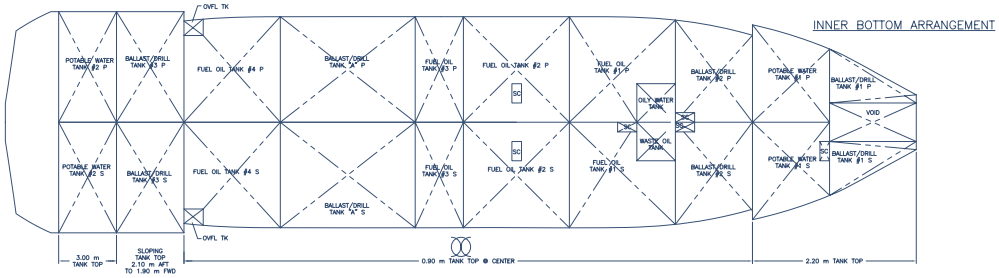
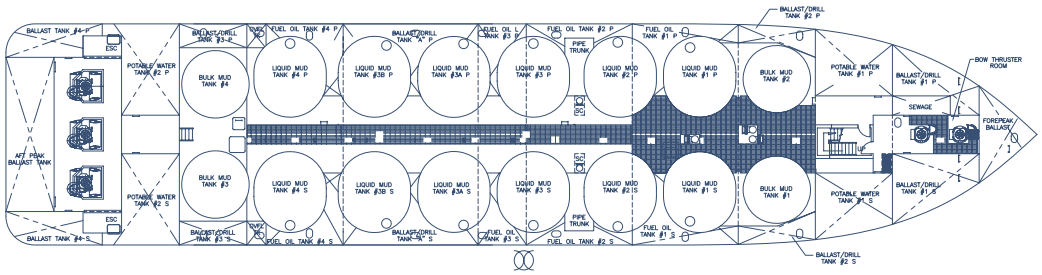
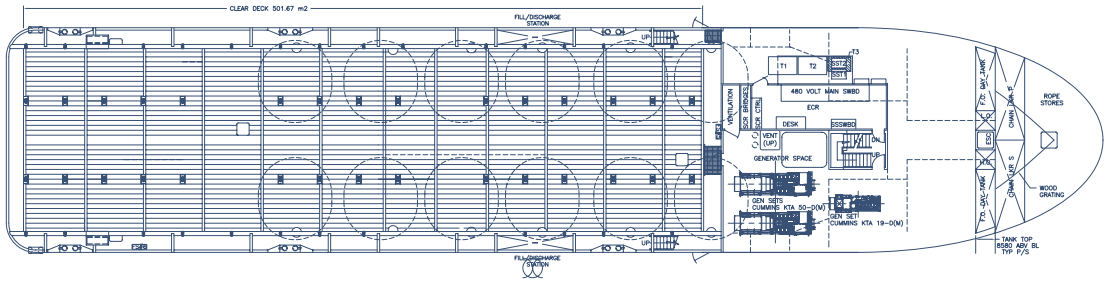
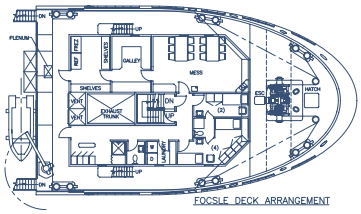
GENERAL ARRANGEMENT DRAWING

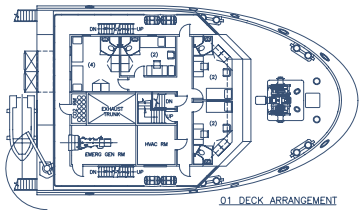


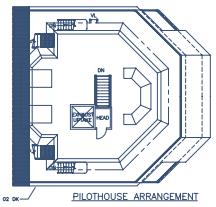












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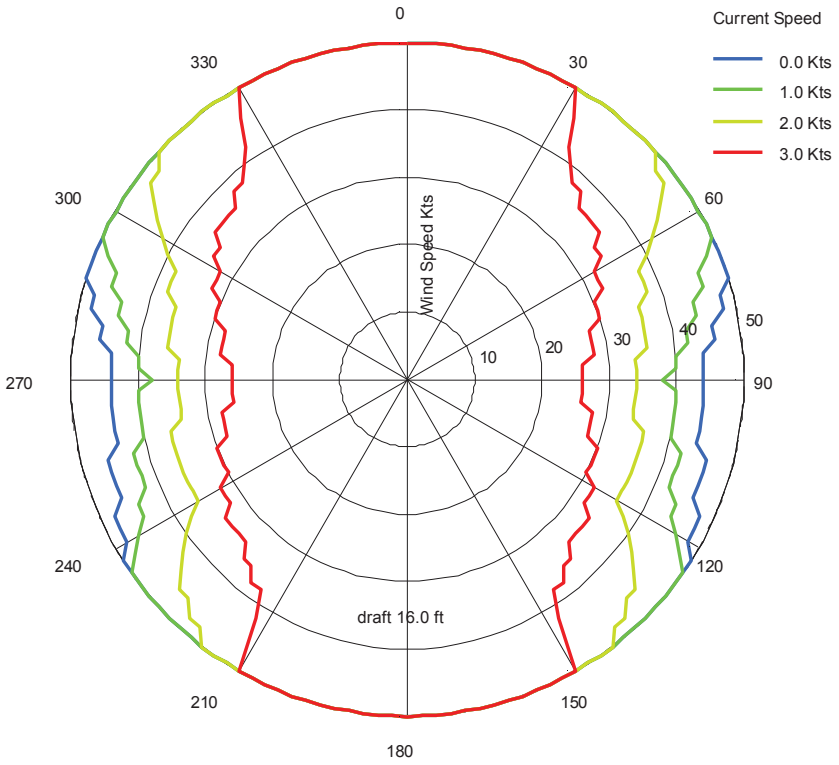
VESSEL CAPABILITY PLOTS

Capability Plot (all Thr 100%)



PROPULSORS:	
#1 BowF thruster	100% thrust
#2 BowA thruster	100% thrust
#3 Stern Port Steerprop	100% thrust
#4 Stern Stbd Steerprop	100% thrust
#5 Stern Center Steerprop	offline
Generator #1	100% power
Generator #2	100% power
Generator #3	100% power

ENVIRONMENT	
Max wind speed:	50 Kts
Current Speed:	0-3.0 Kts
Colinear environment	

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