

Alpha Star

A column-stabilized semi-submersible mobile offshore drilling unit (MODU) with dynamic positioning. It is designed to drill wells down to approximately 9.144m (30.000ft) from the mud line and operate in up to 3.000m (9.842ft) water depths for year-round operations in regions such as Offshore Brazil, Gulf of Mexico, West Africa and Southeast Asia.

HIGHLIGHTS

TYPE | SS Dynamic Positioning

FLAG | Marshall Islands

YEAR BUILT/UPGRADED | 2011

DESIGN | DTG & MSC DSS-38

DP CLASS | DPS-2+



DPS 2+

DP Class

3.000m (9.842ft) Maximum

Water Depth

NOV 56m (185ft) Derrick

2.000.000lbs (907t) Nominal Capacity



4x NOV 14-P-220 Triplex

Mud Pumps 7.500psi capacity



1x NOV 18^{3/4} BOP

15.000psi working pressure Top Drive

NOV TDS-1000A 907t capacity

5.800t

Maximum Variable Deck Load ____



MPD

Non-equipped



1 AFT side - 12t







Operation Draft	20.5 m
Survival Draft	16.5 m
Transit Draft – Field Move	16.5 m
Transit Draft – Open Sea	8.8 m
Variable Deck Load Drilling	5,800 ton
Variable Deck Load Transit (Towing/Field)	5,800 ton
Variable Deck Load Survival	5,800 ton
Transit Speed	9.3 knots
Maximum Water Depth	3,000 m
Minimum Water Depth	500 m
Maximum Drilling Depth	9,144 m
Accommodation	156 people

NOV 185'
907 ton
NOV SSSGD-1000-6000
2 in
NOV CMC-100-25
NOV RST605
60 1/2 in
907 ton
NOV TDS-1000A
907 ton
62,300 (100,000) ft.lb
5,000 psi
NOV PRS-4i Vertical Pipe Racker;NOV Drill Floor Manipulator Arm; NOV AR4500 Automated Roughneck
4
NOV 14-P-220
7,500 psi
2,200 hp
5 (Five) BRANDT LCM3D/CM2
1 (One) Shale shaker equipped with scalping deck, Desilter 24x4" and Desander 3x10" and Vacuum Degasser

POWER & MACHINERY

Main Power	10
Generators Model	NOV Baylor 210-T855ZXT-661
Generators Power	358 kW
Engines Model	EMD, ME20-710G9B
Engines Power (each)	5,000 hp
Emergency Power	Caterpillar, CAT 3508B DITA Engine, 750 kW, 1,800 rpm
Power Distribution	Keppel Norway

STORAGE CAPACITIES

Fuel Oil	15,680 bbl
Liquid Mud (active)	4,959 bbl
Liquid Mud (reserve)	2,516 bbl
Base Oil Mud	2,880 bbl
Brine	5,346 bbl
Drill Water	9,019 bbl
Potable Water	9,051 bbl
Bulk Material	20,000 cu.ft
Sack Storage	3,200 sacks

BOP AND WELL CONTROL EQUIPMENT

Bop Configuration	7-A2-R5
Bop Size	18 3/4 in
Bop Rams Working Pressure	15,000 psi
Bop Annular Working Pressure	10,000 psi
Bop Handling	NOV 400-ton BOP Transporter; NOV BOP Gantry Crane 2 x 125 ton
Marine Riser Type	AKER CLIP Riser 75 ft
Marine Riser Id	19 3/8 in
Marine Riser Joints	123
Diverter	GE Hydril, FS21, 21" x 500 psi
Tree Handling	NOV 200-ton Tree Trolley; NOV 150-ton Tree Skid; NOV 2 X 50-ton Tree Overhead Crane
Choke Manifold Working Pressure	15,000 psi
Choke Manifold Size	3.0625 in





STATION KEEPING / PROPULSION

Thrusters	8	
Thrusters Type	Flowserve Azimuth Thrusters	
Thrusters Power	3,000 kW	
DP System	Kongsberg K-POS-32 Dynamic Positioning System	
Mooring System Emergency Mooring System with 2 (two) BRÖHL double mooring winches		

CRANES

Port	1 (one) kingpost crane TSC Patriot Series 240 70 ton @ 12.2 m
Starboard	1 (one) kingpost crane TSC Patriot Series 240 70 ton @ 12.2 m 1 (one) pedestal Knuckle Boom NOV forward of the drill floor for material handling 12 ton

OTHER INFORMATION & FEATURES

D value 22.2m; Max. weight 12.8 ton; Zero Discharge Helideck