

# PAUL B. LOYD JR.

## HARSH-ENVIRONMENT SEMI-SUBMERSIBLE



**For additional information please contact:**

Transocean  
Marketing Department  
1414 Enclave Parkway  
Houston, TX 77077, USA  
Phone: + 1-713-232-7500  
Fax: + 1-713-232-7880  
[marketing@deepwater.com](mailto:marketing@deepwater.com)  
[www.deepwater.com](http://www.deepwater.com)

### General Description

<b>Design / Generation</b>	Aker H 4.2 Harsh Environment
<b>Constructing Shipyard</b>	Hyundai Heavy Ind. South, Korea
<b>Year Entered Service / Significant Upgrades</b>	1990
<b>Classification</b>	DNVGL 1A1 Column Stabilized Drilling Unit – Non Self Propelled
<b>Flag</b>	Vanuatu
<b>Dimensions</b>	360 ft. (109.7 m) x 273 ft. (83.2 m) x 130 ft. (39.6 m) Deep
<b>Drafts</b>	77.10 ft. (23.5 m) operating / 24.5 ft. (7.4 m) transit
<b>Accommodation</b>	120 persons
<b>Displacement</b>	43,545 st (39,503 mt) operating / 28,671 st (26,009 mt) transit
<b>Variable Deck</b>	3,417 st (3,099 mt) operating / 2,778 st (2,520 mt) transit
<b>Transit Speed</b>	up to 5 knots
<b>Maximum Water Depth</b>	1,969 ft. (600 m) designed / 1,969 ft. (600 m) outfitted
<b>Maximum Drilling Depth</b>	20,000 ft (6,096 m)

### Drilling Equipment

<b>Derrick</b>	Dreco, 170 ft. (52 m) high, with 40 ft. (12 m) x 40 ft. (12 m) base.
<b>Hookload Capacity</b>	750 st ( 680 mt) capacity
<b>Drawworks</b>	National Oilwell 1625DE, 3 x GE 725 DC electric motor; 3,000 hp
<b>Compensator</b>	Brown Brothers, 25 ft. (7.6 m) stroke, 300 st (272 m) compensating, 750 st (680 mt) locked
<b>Rotary Table</b>	National Oilwell C495 49-1/2" hydraulic, 880 st (798 mt)
<b>Top Drive</b>	Varco TDS4SH, 650 st (590 mt) capacity, with 1 x GE752 motor, rated to 45,500 ft.-lbs. continuous drilling torque in low gear
<b>Tubular Handling</b>	Aker MH (Upper and Intermediate stand lift racking arms, Rig floor manipulator) pipe racking system. Varco AR3200 Iron Roughneck
<b>Mud Pumps</b>	3 x National 12-P-160 1,600 hp Triplex pumps, each driven by 2 x GE-752 traction motors
<b>HP Mud System</b>	Rated for 5,000 psi
<b>Solids Control</b>	4 x Thule VSM 300 shale shakers

### Power & Machinery

<b>Main Power</b>	8 x NOHAB F316A diesel engines rated at 3,580 kW, 900 rpm, each driving 1 x 3,400 kW AC generator
<b>Emergency Power</b>	1 x GM Detroit Diesel Allison diesel engine rated 1,049 kW, 1,800 rpm driving 1 x AC generator
<b>Power Distribution</b>	14 x GE Microdrill 750 VAC SCR switchboards

### Storage Capacities

<b>Fuel Oil</b>	17,743 bbl (2,821 m3)
<b>Liquid Mud</b>	Surface Mud System 3,232 bbl (513.8 m3) / P16 Reserve 600mt
<b>Base Oil</b>	3,748 bbl (595.8 m3)
<b>Brine (@1.2 SG)</b>	3,145 bbl (500 m3)
<b>Drill Water</b>	13,632 bbl (2,167 m3)
<b>Potable Water</b>	4,236 bbl (673 m3)
<b>Bulk Material (barite/bentonite)</b>	(mud + cement) 20,000 cu.ft (386 m3)
<b>Sack Storage</b>	1,130 sq.ft (104 m2) / 4,000 sacks

### BOP & Subsea Equipment

<b>BOP Rams</b>	1 x Hydril Compact Triple 18-3/4" x 15,000psi ram preventer, 1 x Hydril Compact Double 18-3/4" x 15,000psi ram preventer (5 rams total)
<b>BOP Annulars</b>	1 x Hydril Dual Annuflex 18-3/4" x 10,000psi preventer (2 annulars total)
<b>BOP Handling</b>	Asea Hagglund BOP crane 1 x 300st (272 mt) main hoist. 1 x Overhead crane with 2 x 60st (54 mt) hooks (total capacity 120st (108 mt), also used to assist tree handling)
<b>Marine Riser Tensioners</b>	Cameron RD21, 21" OD x 20" ID x 50 ft. (15.2 m) joint 4 x NL Shaffer Double riser tensioners, 40 st (36 mt) each; 2 x Western Double riser tensioners 50 st (45 mt) each
<b>Diverter</b>	49-1/2" 500 psi Hughes KFDS Line ID diverter with 14" flow line
<b>Tree Handling Moonpool</b>	1 x MOSS Skid rail type 1 x 150 st ( 136 mt) 32 ft. (9.7 m) length x 22 ft. (6.7 m) Width

### Station Keeping / Propulsion System

<b>Thrusters</b>	8 (2 each corner) azimuthing Schottel thrusters, each driven by NEBB QWV 710 A8 motor 2,800 kW, variable blade
<b>Mooring System</b>	4 (double) Pusnes 620 CU Hydraulic/Electric drum winches with 341 st (309.9 mt). static brake capacity, 8 x mooring lines (if present) consisting of 6,233 ft. (1,899 m) of 3" stud link chain, with 6 x Stevpris Mk5 16.5 st ( 14.9 mt). anchors and 2 x Stevpris Mk6 13.2 st (11.9 mt) lbs. anchors

### Cranes

<b>Crane #1</b>	1 x 82.5 st (74.8 mt) Liebherr BOS 2600 crane
<b>Crane #2</b>	1 x 38 st (34 mt) Brattvaag KHO3516 crane with 164 ft.(49.9 m) Boom

### Other Information

<b>Helideck</b>	Rated for Sikorsky S-61N / S 92 helicopters. 89 ft. (27 m) diameter.
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Revision Date: 1 June 2023

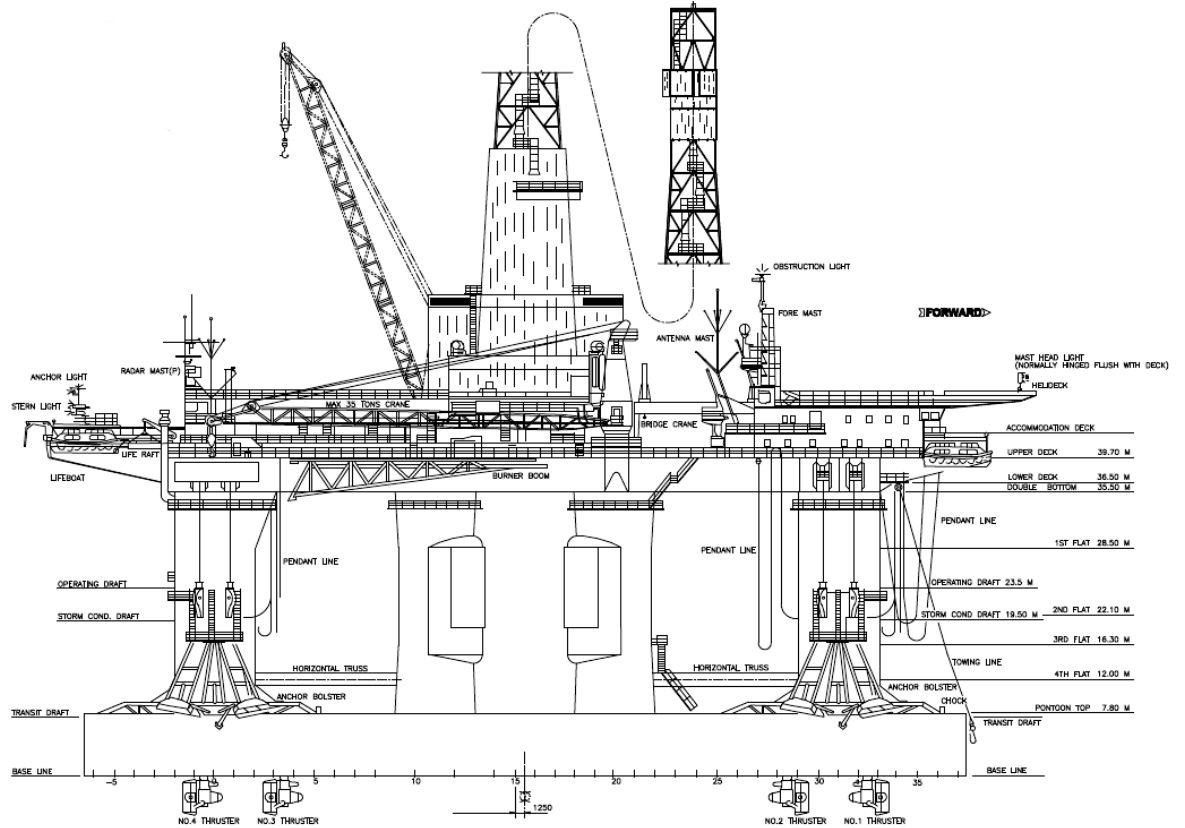
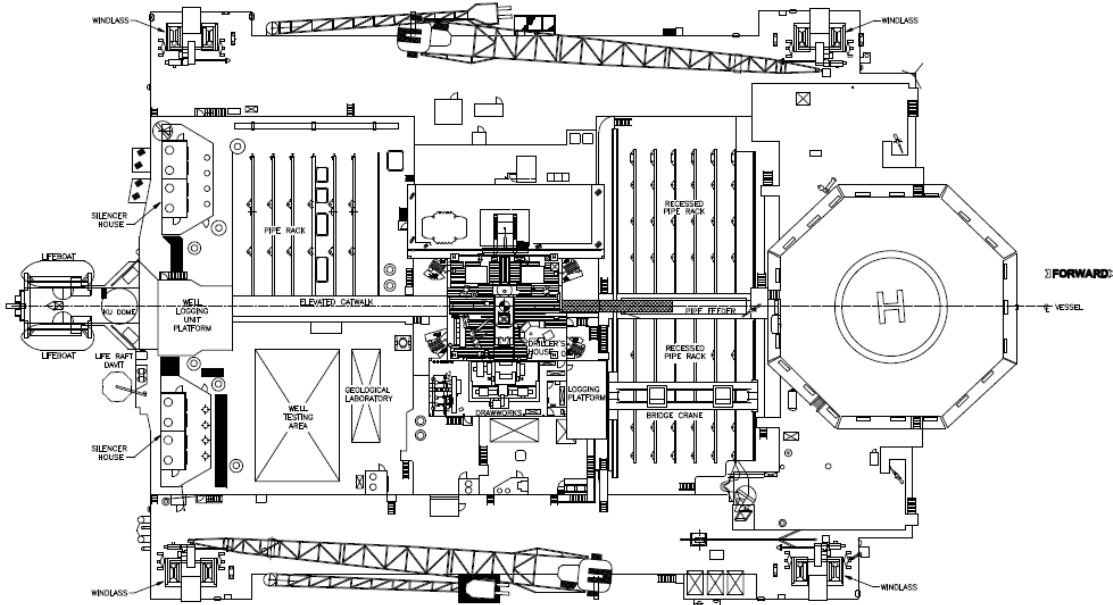


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# BOUNDLESS

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**SERVICE FOCUSED  
DATA DRIVEN  
PERFORMANCE ORIENTED**

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