

# Paul B. Loyd Jr.



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## Harsh Environment Semi-Submersible

### 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 / N/A
<b>Classification</b> .....	Det Norske Veritas 1A1 Column Stabilized Drilling Unit
<b>Flag</b> .....	Vanuatu
<b>Dimensions</b> .....	360 ft. long x 273 ft. wide x 130 ft. deep
<b>Drafts</b> .....	77.10 ft. operating / 24.5 ft. transit
<b>Accommodation</b> .....	112 persons
<b>Displacement</b> .....	43,545 st operating / 28,671 st transit
<b>Variable Deck</b> .....	4,078 st operating / 3,439 st transit
<b>Transit Speed</b> .....	up to 5 knots
<b>Maximum Water Depth</b> .....	1,969 ft. designed / 1,969 ft. outfitted
<b>Maximum Drilling Depth</b> .....	20,000 ft.

### Drilling Equipment

<b>Derrick</b>	Dreco, 170 ft. high, with 40 ft. x 40 ft. base.
<b>Hookload Capacity</b>	1,500,000 lbs static hook load
<b>Drawworks</b>	National Oilwell 1625DE, 3 x GE 725 DC electric motor; 3,000 hp,
<b>Compensator</b>	Brown Brothers, 25 ft. stroke, 600 kips compensating, 1,500 kips locked
<b>Rotary Table</b>	National Oilwell C495 49-1/2 inch hydraulic, 880 st
<b>Top Drive</b>	Varco TDS4SH, 560 st 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> .....	17,297 bbls.
<b>Liquid Mud</b> .....	3,180 bbls. Active / 2,138 bbls. Reserve
<b>Base Oil</b> .....	3,750 bbls.
<b>Brine</b> .....	3,144 bbls.
<b>Drill Water</b> .....	13,632 bbls.
<b>Potable Water</b> .....	4,236 bbls.
<b>Bulk Material</b> .....	(mud + cement) 20,000 cu.ft.
<b>Sack Storage</b> .....	4,000 sacks

### BOP & Subsea Equipment

<b>BOP Rams</b>	1 x Hydril Compact Triple 18-3/4 inch x 15,000psi ram preventer, 1 x Hydril Compact Double 18-3/4 inch x 15,000psi ram preventer (5 rams total)
<b>BOP Annulars</b>	1 x Hydril Dual Annulflex 18-3/4 inch x 10,000psi preventer (2 annulars total)
<b>BOP Handling</b>	Asea Hagglund BOP crane 1 x 300st main hoist. 1 x Overhead crane with 2 x 60st hooks (total capacity 120st, also used to assist tree handling)
<b>Marine Riser</b>	Cameron RD21, 21 inch OD x 20 inch ID x 50 ft. joint.
<b>Tensioners</b>	4 x NL Shaffer Double riser tensioners, 40 st each; 2 x Western Double riser tensioners 50 st each.
<b>Diverter</b>	49-1/2 inch 500 psi Hughes KFDS Line ID diverter with 14 inch flow line
<b>Tree Handling</b>	1 x MOSS Skid rail type 1 x 150st.
<b>Moonpool</b>	32 ft. length x 22 ft. 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>DP System</b>	N/A
<b>Mooring System</b>	4 (double) Pusnes 620 CU Hydraulic/Electric drum winches with 683,550 lbs. static brake capacity, 8 x mooring lines (if present) consisting of 6,233 ft. of 3 inch stud link chain, with 6 x Stevpris Mk5 33,075 lbs. anchors and 2 x Stevpris Mk6 26,460 lbs. anchors

### Cranes

<b>Crane #1</b>	1 x 82.5 st Liebherr BOS 2600 crane
<b>Crane #2</b>	1 x 38 st Brattvaag KHO3516 crane with 164 ft. boom.

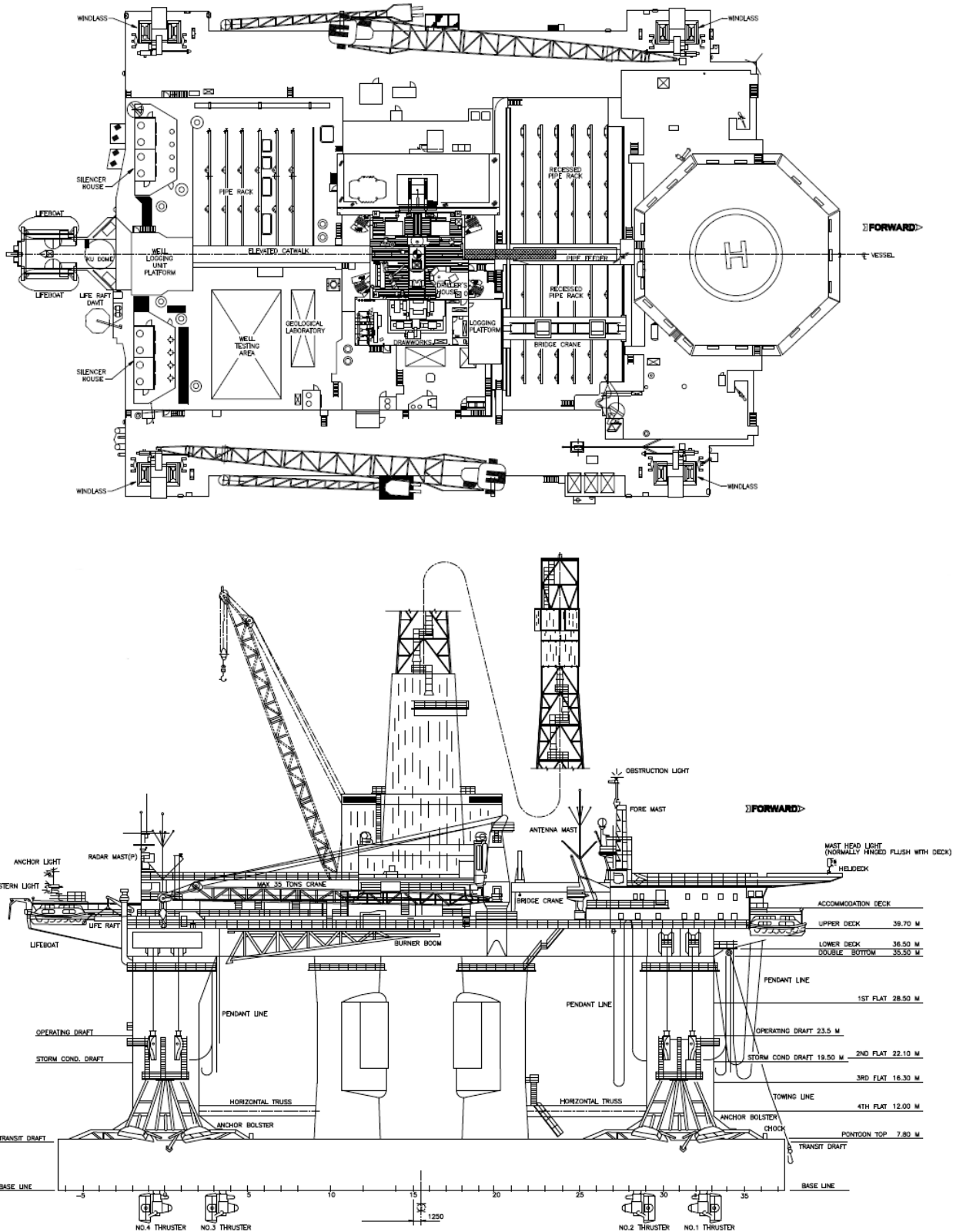
### Other Information

<b>Helideck</b>	Rated for Sikorsky S-61N / S 92 helicopters. 89 ft. diameter.
<b>Other</b>	N/A

Revision Date: 18 July 2016



These specifications are intended for general reference purposes only, as actual equipment and specifications may vary based upon subsequent changes, the contract situation and customer needs. All equipment shall be operated and maintained at all times, in compliance with Transocean standard operating manuals, policies and procedures, and within its stated operational limits or continuous rated capacity, in order to assure maximum operational efficiency.



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