

## PRINCIPAL CHARACTERISTICS

### Classification:

ABS A1 AMS drilling unit  
United States Coast Guard Certified

**Water Depth Capability:** 2,500 ft.

### Vessel Dimensions:

Length Overall	444 ft. 5 in.
Beam Molded	76 ft.
Depth at Side	35 ft.
Draft at Load Line	24 ft. 6 in.
Centerwell	26 ft. x 26 ft.

### Loading Data: (Approx.)

Lightship Displacement	10,080 s. tons
Maximum Loaded Displacement	17,920 s. tons
Maximum Variable Load	7,840 s. tons

### Maximum Storage Capacities:

Tubular Goods	
Casing Rack	448 s. tons
Casing Hold	672 s. tons
Sack Storage	15,000 cu. ft.
Bulk Mud	16,890 cu. ft.
Liquid Mud	
Active	594 bbls (approx.)
Reserve	3,044 bbls.
Bulk Cement	7,415 cu. ft.
Potable Water	1,140 bbls.
Drilling Water	16,806 bbls.
Treated Water	1,740 bbls.
Wash Water	2,748 bbls.
Fuel	13,446 bbls.
Lube Oil	407 bbls.

Note: Any combination of the above can not exceed the maximum allowable variable load.

### Propulsion System:

Two 11 foot, four bladed, fixed pitch propellers, each driven by three 1,600 hp DC electric motors, developing a total of 9,600 SHP, allowing an approximate speed of 14 knots.

### Fully Self-Contained Mooring System:

Eight point conventional wire/chain system comprised of two double drum, double wildcat Skagit windlasses and four single drum, single wildcat Skagit windlasses, with fairleaders; eight 30,000 lb. anchors and associated lines and buoys; eight 6,500 ft. lengths of 3 in. wire rope and eight 2,000 ft. length of 2¾ in. Oil Rig Quality chain.

### Living Quarters:

Air conditioned accommodations located aft for 77 persons including 4 hospital berths. Air conditioned forward accommodations for 22 persons.

### Power Generation:

Five skid mounted EMD 16 cylinder diesel engine/generator sets rated at 2,100 KW/600 volts each.

### Power Conversion:

DC power is supplied by 6 SCR units rated at 1800 amps, 750 volts each.

### Emergency Power:

One 600 KW/480 volt generator powered by a Detroit Diesel 12V-149 diesel engine.

### Auxiliary Equipment:

**Cranes:** Two Liebherr BOS-30—300D cranes rated at 30 tons at a 20 ft. radius. One Liebherr BOS-65—550D crane rated at 65 tons at a 25 ft. radius.

**Heliport:** 72 ft. diameter with approved foam dry chemical and CO<sub>2</sub> fire fighting systems. Meets requirements for operation of Sikorsky S-61 helicopter.

**Water Distillation System:** Two Riley-Beard model TCF 75 with 7,500 gallon per day capacity each and two raw water pumps.

**Lifeboats:** Two totally enclosed diesel powered 28 ft. lifeboats each equipped for 58 person capacity. Two totally enclosed diesel powered 26 ft. lifeboats each equipped for 44 person capacity. Sufficient life rafts and life jackets to meet U.S.C.G. requirements.

### Compressed Air Systems:

General Service System (125 psi)  
Engine Cold Start System (175 psi)  
Bulk Air System (40 psi)  
Motion Compensator and Riser Tensions System (2,400 psi)  
Breathing Air System (3,500 psi)