

# Harvey H. Ward

## 300 Foot Jack-up Drilling Unit

General Description	
<b>Design</b> .....	Friede & Goldman L-780 Model II
<b>Year Built / Last Upgrade</b> .....	1981 / 2011
<b>Hull Dimensions</b> .....	180 ft. x 175 ft. x 25 ft.
<b>Legs (3)</b> .....	416 ft. long triangular
<b>Quarters capacity</b> .....	108 persons
<b>Maximum Water Depth</b> .....	300 ft.
<b>Jacking System</b> .....	National rack and pinion, 12 pinions/leg
<b>Cantilever Envelope</b> .....	40 ft. by 24 ft.
<b>Maximum Variable Load (drilling)</b> .....	Approx. 4,000 kips*
	<i>*depending on water depth and geographical location</i>

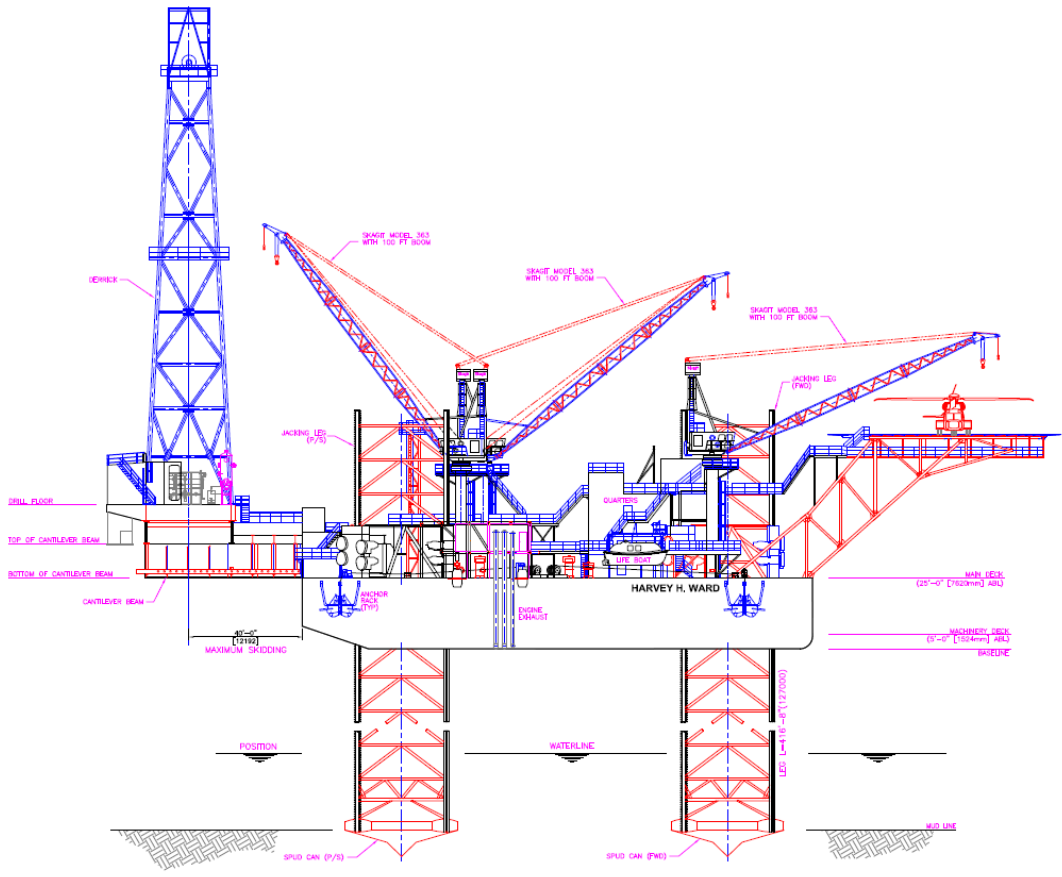
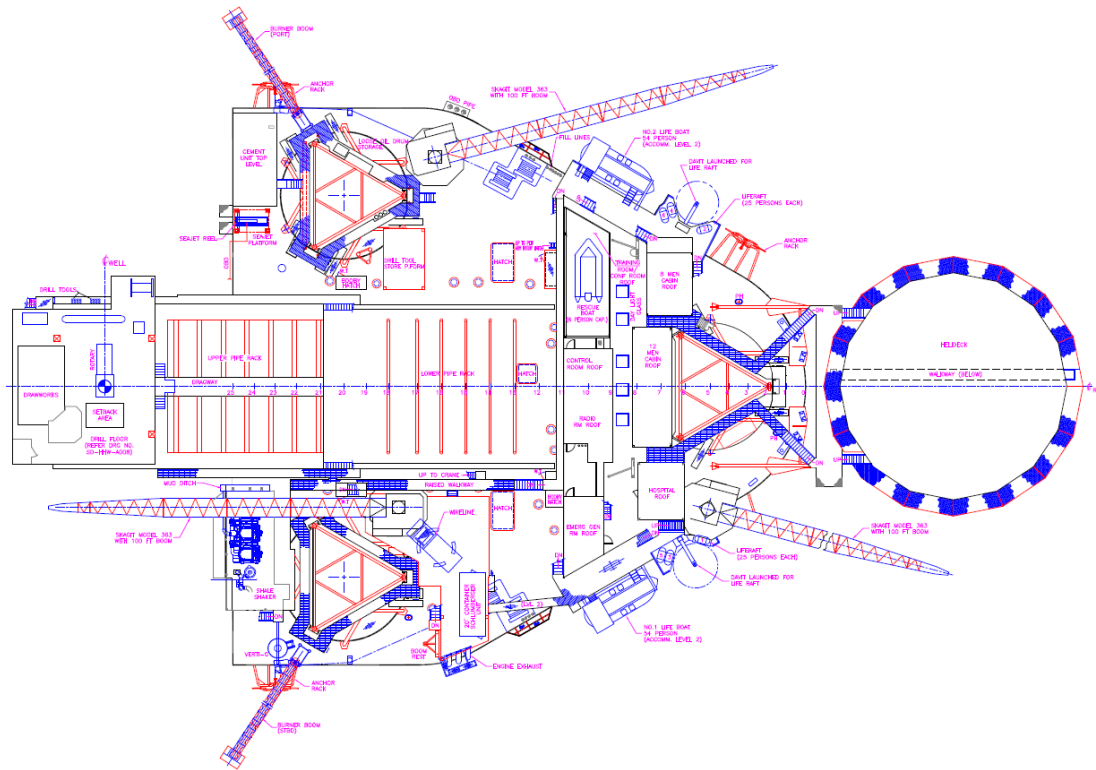
Drilling Equipment	
<b>Derrick</b>	Dreco 160 ft. x 30 ft. x 30 ft., static hook load capacity 1,000,000 lbs. with 12 lines.
<b>Drawworks</b>	Oilwell E3000, 2,000 HP driven by two (2) EMD D79 1,000 HP motors, with Baylor 7838 electric brake
<b>Rotary Table</b>	Oilwell A-375 with 37-1/2 in. maximum opening rated, rated 650 short tons
<b>Top Drive</b>	Varco TDS-4S, 650 st 1,000 HP, 45,500 ft. lbs. maximum continuous torque, outfitted with a Varco PH-85 pipe handler
<b>Pipe Handling</b>	NOV ST-80 for handling tubular ranging from 4-1/2 in. to 8-1/2 in OD.
<b>Mud Pumps</b>	Two (2) Continental Emsco FB-1600 5,000 psi triplex pumps, each driven by two (2) 800 HP EMD D79 motors
<b>Solids Control</b>	Three (3) Derrick Hyper-pool shale shakers, one (1) Derrick Dual-pool mud cleaner
<b>Instrumentation</b>	NOV RigSense drilling instrumentation system

Storage Capacities	
<b>Liquid Mud</b>	1,974 bbls (including slug pit)
<b>Base Oil</b>	755 bbls
<b>Drill Water</b>	5,572 bbls
<b>Potable Water</b>	1,393 bbls
<b>Fuel</b>	2,434 bbls
<b>Bulk Mud</b>	4,080 cu. ft. (3 silos)
<b>Bulk Cement</b>	4,080 cu. ft. (3 silos)

Power Equipment	
<b>Main Power</b>	Two (2) EMD MD16-645-E8 1,945 HP engines driving 2,100 KW EMD AC generators; one (1) EMD MD12-645-E8 1,500 HP engine driving 2,100 KW EMD AC generator; one (1) Caterpillar 3516BHD 2,150 HP engine driving a Kato 1,680 KW AC generator
<b>Power Dist.</b>	Four (4) Ross Hill SCR units rated at 1,350 KW 750 volts

Well Control Equipment	
<b>BOP Stack</b>	One (1) Cameron T90 13-5/8 in. 5K annular preventer; one (1) Cameron Type U 13-5/8 in. 10K double ram preventer; one (1) Cameron Type U 13-5/8 in. 10K single ram preventer
<b>BOP Handling</b>	Two (2) Ingersoll Hoist Herculink HA2-025 hoists rated 25 MT each with four (4) lift points. Total SWL 50 MT.

Cranes	
	Three (3) Skagit Model 363 pedestal cranes with 100 ft. booms with two rated for 50 short tons at 50 ft. & one rated for 46.5 MT at 30 ft.



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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 Shelf Drilling policies and procedures, and within its stated operational limits or continuous rated capacity, in order to assure maximum operational efficiency.