



# 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 B37-1/2 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>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) MI Swaco MD2 progressive elliptical shale shakers, one (1) Brandt desander with 2 x 12" cones, one (1) Brandt desilter with 16 x 4" cones
<b>Instrumentation</b>	MD Totco drilling instrumentation & Driller Display System

Storage Capacities	
<b>Liquid Mud</b>	1,972 bbl (including slug pit)
<b>Base Oil</b>	755 bbl
<b>Drill Water</b>	5,572 bbl..
<b>Fuel</b>	2,233 bbl
<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 diesel engines 1,945 HP driving 1,280 KW 600 volts EMD AC enerator; one (1) EMD MD12-645-E8 diesel engine 1,500 HP driving 1,280 KW 600 volts EMD AC generator
<b>Power Dist.</b>	Four (4) Ross Hill SCR units rated at 1,350 KW 750 volts

Well Control Equipment	
<b>Diverter System</b>	Hydril MSP 500 psi 29-1/2 in. annular diverter with Hydril MSP 2,000 psi diverter spool outfitted with two (2) 12 in. discharge lines and Demco 12 in. 900 series ball valves
<b>BOP Stack</b>	One (1) Hydril GK 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. Total SWL 50 MT.

Cranes	
	Three (3) Skagit Model 363 pedestal cranes with 100 ft. booms, rated for 50 short tons at 30 ft. radius

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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.

