



Harvey H. Ward 300 Foot Jack-up Drilling Unit

General Description	
Design	Friede & Goldman L-780 Model II
Hull Dimensions	180 ft. x 175 ft. x 25 ft.
Legs (3)	416 ft. long triangular
Quarters capacity	108 persons
Maximum Water Depth	300 ft.
Jacking System	National rack and pinion, 12 pinions/leg
Cantilever Envelope	40 ft. by 24 ft.
Maximum Variable Load	3,926 kips (drilling)
.....	5,426 (temporary drilling)

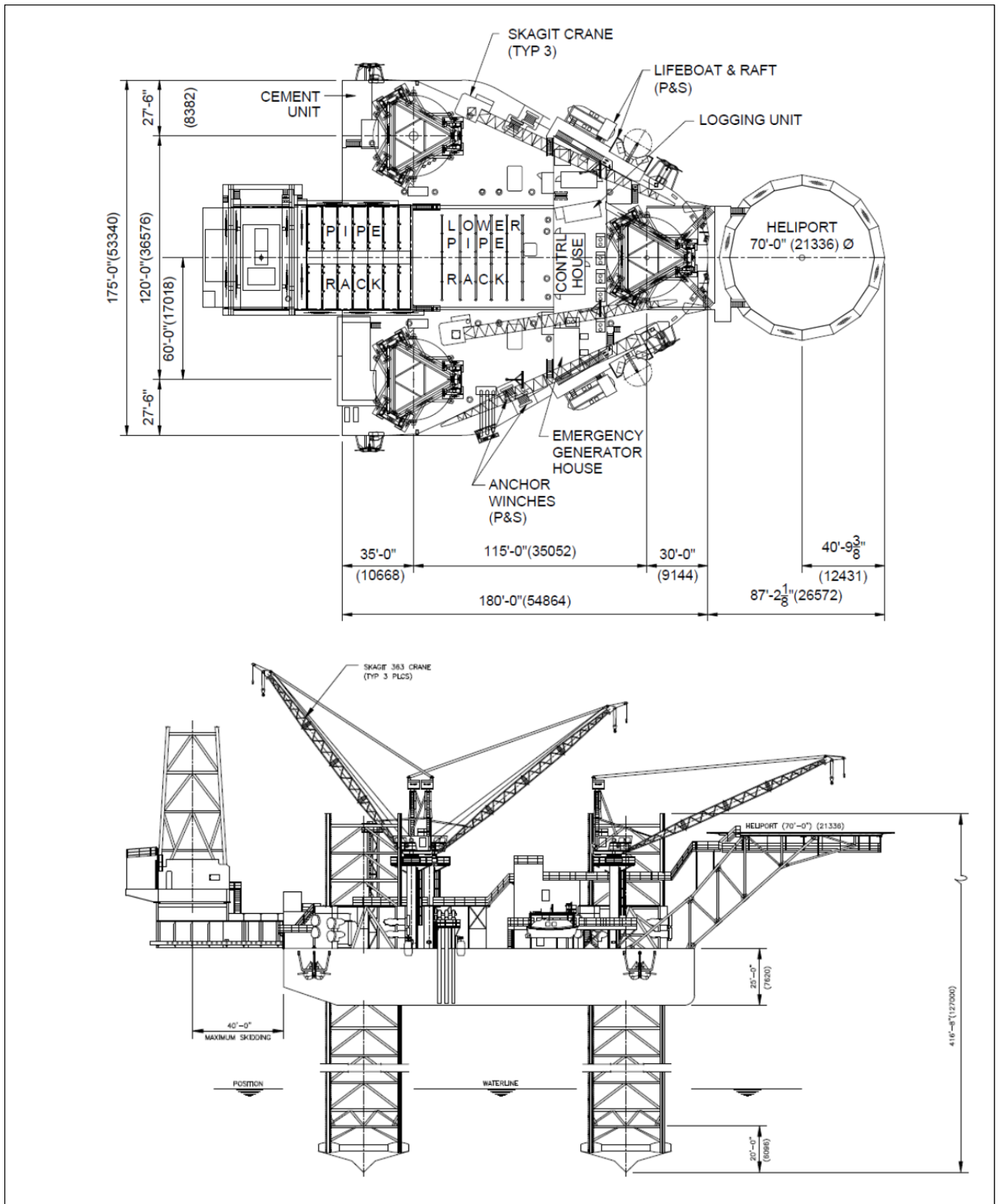
Drilling Equipment	
Derrick	Dreco 160 ft. x 30 ft. x 30 ft., static hook load capacity 1,000,000 lbs. with 12 lines.
Drawworks	Oilwell E3000, 2,000 HP driven by two DC motors for 1-1/2 in. drill lines, with hydraulic disc brakes and Baylor 7838 electric brake
Rotary Table	Oilwell B37-1/2 with 37-1/2 in. maximum opening rated at 650 short tons with independent drive using EMD D79 motor
Top Drive	Varco TDS 4-H, 650 short tons, 1,000 HP motor rated to 45,500 ft.-lbs. continuous torque in low gear
Mud Pumps	Two (2) Continental Emsco FB-1600 5,000 psi triplex pumps, each driven by two (2) 800 HP EMD D79 motors
Solids Control	Three (3) Axiom AX-1 shale shakers

Storage Capacities	
Liquid Mud	1,898 bbl.
Drill Water	5,566 bbl.
Fuel	2,434 bbl.
Bulk Mud	3,600 cu. ft.
Bulk Cement	3,600 cu. ft.

Power Equipment	
Main Power	Two (2) EMD MD16-645-E8 diesel engines 1,945 HP driving 1,280 KW 600 volts EMD AC generator; one (1) EMD MD12-645-E8 diesel engine 1,341 HP driving 1,280 KW 600 volts EMD AC generator
Power Dist.	Four (4) Ross Hill SCR units rated at 1,350 KW 750 volts

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

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



HARVEY H WARD

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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.