

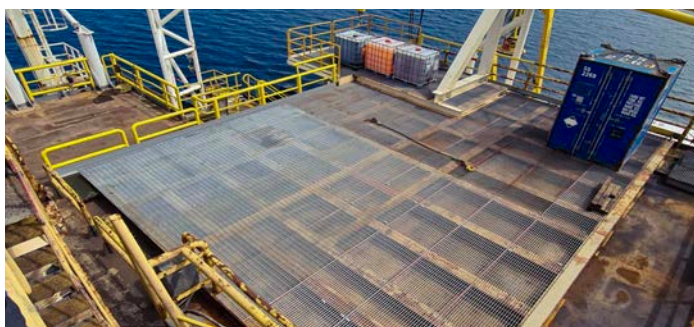


# WELL-SAFE DEFENDER SPECIFICATIONS

A robust well decommissioning semi-submersible rig

General Description	
Name	Well-Safe Defender
Design	Friede & Goldman L-907 enhanced pacesetter semi-submersible
Year manufactured	1983 (Major upgrades 2011 & 2016)
Classification	DNV 1A1 column stabilised drilling unit
Dimensions	308 ft long x 206 ft wide x 116 ft high
Draft	64 ft operating / 25 ft transit
Variable Deck Loading	Operational: 4,167 tonnes Transit: 4,000 tonnes
Transit speed	3 - 8 knots
Water depth	1,200 ft max / 300 ft min
Operating depth	1,200 ft
Flag	Marshall Islands

Well Abandonment Equipment	
Derrick	Dreco, 195 ft high with 40 ft x 40 ft base, static hook capacity of 14 lines
Draw-works	National 1625 UDBE 3000 hp with 3x GE 752 motors and disc brake, plus Baylor 7838 auxiliary electric brake
Compensator	Maritime Hydraulics crown-mounted compensator MH 1659 270-20. Compensating cap. 595,000 lb
Rotary Table	Ideco 49.5" hydraulic motor driven, non-drilling
Top Drive	Maritime Hydraulics DDM 650 HY
Tubular handling	Maritime Hydraulics MH 997
Mud pumps	2x Ideco T-1600, 1x National 12-P-160
Tree handling	235 tonne Normar Carrier, with tree skid-off



## FOR SAFE, EFFICIENT WELL DECOMMISSIONING

Well Control/Subsea Equipment	
Diverter	Regan KFDS-3
BOP stack	Schaffer NXT 5 ram 18-15; 2x Schaffer 18-10 annulars
BOP dimensions	W = 3,646 mm, L = 5,350 mm, H = 8,406 mm
LMRP dimensions	W = 3,646 mm, L = 4,740 mm, H = 6,197 mm
Stacked height	12,947 mm
C&K manifold	Axon 13 1/16in, 15,000 psi
Marine riser	Regan Vetco FC 8 21in, 50 ft long per joint
Tensioner	8x 80,000lb NL Shaffer, with 50ft of wire travel
Moonpool	75 x 20ft
ROV	LARS-deployed, work-class ROV

Fluid Handling	
Dedicated handling areas	
Handling & processing options identified	Dedicated area for bleed-off/filtration package Rig-owned cuttings recovery conveyors

Mooring Systems	
4x Norwinch 2A-76-2 E1 hydraulic double winch	
8x 4250ft x 3in K4 anchor chain	
8x 12te Stevpris mk6 anchors	

Cranes	
2x Liebherr, 120ft boom, 30te at 31ft radius (port and starboard)	
1x Liebherr, 80ft boom, 50te at 31ft radius (aft)	

Power Management	
Main power	4x Nohab F312 12 cylinder diesel with maximum continuous power of 2,652hp, driving Siemens 1,808 kW AC generators
Emergency power	1x Cummins KTA 50-D (M1) rated at 1,000 kW
Switchboard	8x Siemens SCR power unit, 720V DC, 1,200amp
Fuel consumption	Operational – 10 m3 per day
	Non-operational – 4 m3 per day

Accommodation	
110 persons (accommodation replaced in 2011)	
Client office and conferencing facilities	

Fluid Capacity	
Mud pits	Active: 1,766 bbls; Process: 358 bbls; Reserve: 1,445 bbls
Brine, sack storage	2,016 bbls, 6,000 stacks
Potable water	2,791 bbls
Drill water	13,737 bbls
Barite/Bentonite	3,778 cu ft
Bulk cement	5,777 cu ft
Fuel oil	8,013 bbls