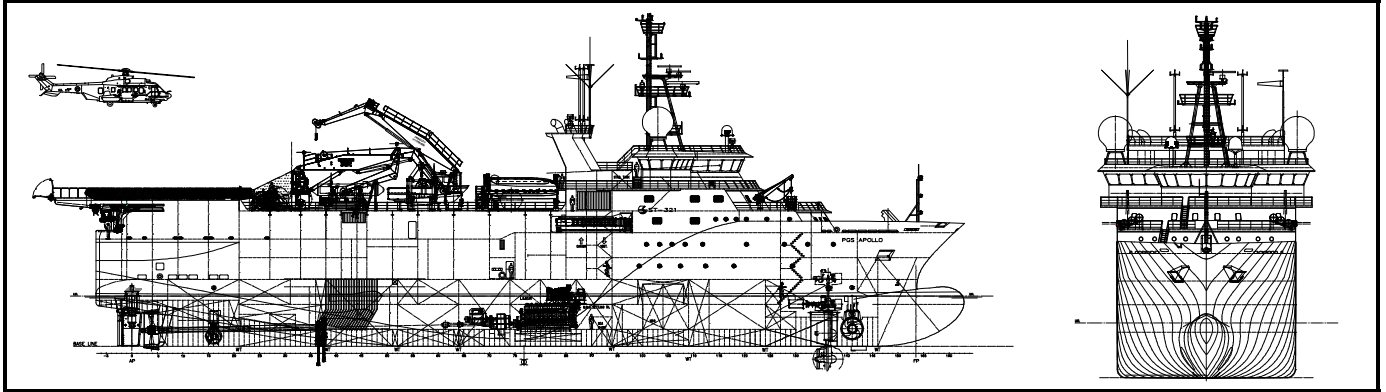
 <p>FACTORIAS VULCANAS, S.A.</p>	RESEARCH VESSEL FILING CARD		IMO number: 9378228
	Name: PGS APOLLO - PETROLEUM GEO-SERVICES (PGS)		Build. no. 534 Stud. no. 0
	Cargo Capacity: 3000 DWT	Country: CYPRUS	Filing Card
REFERENCE CBV0534 VOC	Type: MULTI-STREAMER SEISMIC RESEARCH VESSEL	Built date: 2010	Page: 1



Survey: D.N.V.	Classed: + 1A1, E0, HELDK-SH, NAUT AW, RP, VIBR, TMON, COMF-V(2), BIS	Ice: -
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MAIN PARTICULARS (m)		TONNAGES (Tons)		CAPACITIES (m3)		OUTPUT / SPEED / RANGE	
Length Overall	106,80	GT (IMO 69)	7690	Heavy Fuel	1452	Output (KW)	1380 Kw+400 Kw
Length B. Perp.	92,10	NT (IMO 69)	2308	Diesel Oil	648	% MCR - % Sea	100%-0%
Breadth mould.	19,20			Lub Oil	80	Speed trial (KN) // Draft (m)	18,24 // 6,0
Depth mould.	8,00	DWT (d. Sct.)	3000	Fresh Water	173	% MCR - % Sea	
Design draught	6,00	Displ. (d.sct)	7973	Ballast Water	849	Speed serv. (KN) // Draft (m)	
Scantling draught	6,50	Lightweight	4961	Passive anti-rolling tank	99	Range (nm)	
Crew + Scientific	60	TPC/I (d.Sct.)	16			Consumption t/day (F/D)	

SPECIAL INSTALLATIONS	INSTRUMENT. EQUIPMENT	DECK MACHINERY & EQUIPMENT	
Helicopter deck for Sikorsky S-92		Windlass	2 x Windlass with de-clutchable cable lifters & mooring winch
Accommodat. 60 pers. in 28 single and 16 double bunk cabins		Capstans	2 x Capstans-Pull = 10 t SWL @ 20 m/min
Joystick system modes: joystick, auto heading and autopilot		Winch	4 x mooring winches - Speed = 60 m/min
Seismic HP Air Compressors (part of Air gun System)		Stern gate	2 x hydr. operate stern gates - high = 2,1 m
3 x High Pressure Compressors - Discharge pres. =207 bar		Crane	2 x Handling cranes: 12,0 t SWL @ 12m
Air receiver storage rack		Crane	2 x Provision cranes: 1,5 t SWL @ 10m
Seismic Work Boat:		Lifeboats	2 x covered lifeboats - cap = 60 pers
1 x L = 9,5 m B = 3,43 m T = 1,36 m H = 3,92 m		MOB boat	1 x Fast Rescue boat - cap = 10 pers
One (1) Cable Retrieval rig & One (1) Twin drum Streamer winch			

MACHINERY AND AUX. ENGINES		SPECIAL DECK SEISMIC EQUIPMENT	
Father Engine (Desing / Type)	2 x Diesel Engine MAN B&W / 9L 32/40	Design	ODIM
Output (KW) / r.p.m.	4500 kW / 750 r.p.m.	12	Streamer winches
Son Engine (Desing / Type)	2 x Diesel Engine MAN B&W / 6L 32/40	4	Streamer storage/aux. winch.
Output (KW) / r.p.m.	3000 kW / 750 r.p.m.	12	Spooling devices
Gear Box (Desing / Type)	2 x twin input - single output Flender / Navilus GVQII 1250	12	Towing points with blocks.
Reduction ratio / PTO (Kw)	High speed 750:152 - Low speed 750:120 / 2200 Kw	4	Lead-in winches.
Propeller (Desing / Type)	2 x GPP Kamewa Ulstein / OD-70F-102XF5/4E-3900N	10	Special conveying gutters w/ rollers for streamer cables
Blades Ø (mm) / Speed (r.p.m.)	3900 mm Ø four blades / High speed: 152 mm - Low: 120 rpm	2	Transverse Towing Point systems, with 2 hyd. winches.
Shaft Alter. (Desing / type)	4 x 2200 kWe Leroy Somer LSA54 M8	8	Gun winches
Output (kVA / rpm / V / Hz)	2750 kVA / 1200 r.p.m. / 690 V / 60 Hz		Source storing rail system (Overhead Craneway System)
Steering gear (Design / Torque)	2 x Tenford Rotary Vane Type SR742-FCP2 / 433 kNm		Handling systems for Air gun arrays
Rudder (Design / Area / Angle)	2 x Ulstein Hinze Flap / 10,5 m² / 45°		Deflector Handling and Storage system.
Bow thruster (Design / Ø / Kw)	1 x Kamewa Ulstein TT2400 DPN CP / 2430 mm / 1200 kw		Spooling racks for standard cable drums.
Azimuth thruster (Design / Ø / Kw)	1 x Ulst. Aquamaster UL 2001 CP / 2300 mm / 1500 kw		A number of 3 and 5 tons handling winches
Aft thruster (Design / Ø / Kw)	1 x Kamewa Ulstein TT1650 DPN CP / 1680 mm / 750 kw		A number of Cable Storing winches
Emerg. Genset (Desing.-KW/ rpm)	1 x LIAG/MAN - 250 kWe / 1800 rpm		Hydraulic Power packs
Harbour Genset (Desing.-KW/ rpm)	1 x Mitsubishi S12R 1412 kVA 1800 rpm		
Fecha: 01-01-06		Formato: V - 061	Revisión: 0