

Geoaltus Geotechnical Survey Vessel



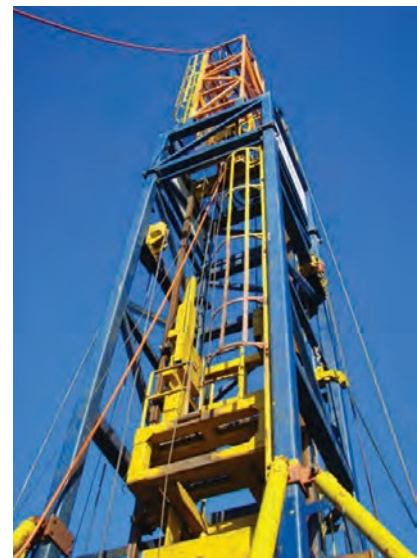
Geoaltus is a dedicated geotechnical vessel equipped with a DP2 positioning system and a 4-point mooring system

Geoaltus is a multi-discipline geotechnical vessel offering a range of drilling, in situ testing and sampling services operated through a central moon-pool or via the vessel's 15-tonnes capacity stern A-frame.

The drill string is advanced using a motion-compensated top-drive power swivel, capable of handling up to a 1,000m of standard 5" OD API drill pipe.

Geoaltus also features a APVDB downhole CPT Unit equipped with 1200m cable. Geoaltus is part of Asian Geos fleet of vessels and has been designed to support the following key areas:

- / Geotechnical Investigations for Offshore Hydrocarbon Developments
- / Geotechnical Investigations in deep water
- / Wind Farm Geotechnical Investigations
- / Site surveys for exploration jack ups
- / Shallow gas investigations including very deep pilot holes



Vessel details

Name	Geoaltus	Navigation	
Type	Geotechnical Survey Vessel (SPS Compliant)	Primary system	DGPS Leica MX 412
Year of build	1985	Secondary system	Furuno GP150
Year of conversion	2012	Tertiary system	Furuno GP150
Flag	Malaysian (Labuan)	Gyrocompass	1 x SG Brown 2 x ANSCHUTZ STD 22
Classification	BV	Communications	
IMO No/Call Sign	8405440 / 9WNB6	Emergency GMDSS Radio	3 x ICOM IC-GM1600
Dimensions		Navtex Receiver	ICS Electronic KS-Nav 5 Sat-C THRANE & THRANE TT 3020-B
Length overall	68.00m	MF/HF DSC	SKANTI TCU 1000
Beam	16.80m	VHF ICOM	SKANTI VHF – 1000 DSC
Draft	6.00m	Telephone system	DVB V-SAT
Moonpool	3.60 x 3.60m	Fleet Broadband	Fleet 77 Email System
Clear Deck Area	500.5m ²	Deck Machinery	
Accommodation		A-frame	15 tonnes capacity
Berths	41 (+ 1 hospital)	Crane	3 tonnes at 8.0 m
Propulsion & Machinery		Capstans/Tugger Winches	2 x 10 tonnes tons at 17m
Main Engine	4 x 1636 BHP Niigata Electric Diesel	Bow Anchor	1 x 2 tonnes with 520m of chain
Propulsion	2 x 2011 BHP Niigata-Liaan Azimuth Thruster	4 Point Mooring System	4 x 4 tonnes ea with 1,500m wire
Bow thrusters	2 x 910 BHP Tunnel	Safety Equipment	
Maximum speed	13 knots	Life Rafts	8 x Survival : 6 x 20 Pax, 2 x 6 Pax
Cruising speed	8 Knots	Life jackets	74 pieces
Capacities		Work vests	10 x crew saver
Fresh water	635m ³	BA sets	4 pieces
Fuel oil	590m ³	PLBs	12 pieces
Endurance	30 days	EPIRB	1
Dynamic Positioning		SART	2
Type	DP2 (GEC GEM 80)	Parachute flares	12
Reference systems	1 x Fugro Starfix DGPS 1 x Veripos DGPS 1 x CyScan	Hand flares	6
		Line throwing apparatus	4

Geotechnical capabilities

Drilling System		Seabed Sampling and Testing	
Derrick	24m	Deep Push PCPT	100kN 40m
Draw works	Pullmaster M50	Shallow Push PCPT	25-40kN
Top drive	Dando MK 1000	Piston Corer	6m Kullenberg
Heave compensation	3m stroke (typical Hs of 1.5-2m)	Undisturbed Sampling	
Mud pump	AXG Duplex Power Pump	Box Corer	0.5m ²
Mud tanks	4 x 6,000 litre 1 x 3,000 litre	Vibrocorer	3, 5 and 6m systems
Drill string	5" API with 4" ID	Geotechnical Laboratory	
Seabed frame	14 tonnes	Photography	Laboratory Vane
Downhole Sampling and Testing		Sample description	Torvane
Wireline PCPT	1m/3m WISON-APB 1,200m umbilical 1m Shelby sampler 1m Piston sampler	Moisture content	UU Triaxial
Rock coring	PQ3 core barrel	Bulk/dry density	Point load test
Wireline logging	PS logger	Fall cone	Carbonate test
		Atterberg Limit	Thermal Conductivity
		Reporting	
		Offshore field reporting and real-time engineering analyses (e.g. jack-up leg penetration analysis and preliminary pile capacity analysis).	



For more details please contact:
Email: ag.commercial@asiangeos.com

Asian Geos Sdn Bhd
18th Floor, Wisma MPL, Jalan Raja Chulan, 50200 Kuala Lumpur, Malaysia
Tel: +603 2031 4228

www.asiangeos.com