



Wavefield Inseis ASA is a Norwegian marine geophysical company providing a high quality range of services, aimed at increasing the exploration success of its clients and to assist them in maximising production from their existing reservoirs.

With a management team comprising some of the most experienced professionals in the industry, combined with a dedicated, highly flexible and responsive group of engineers and geophysicists, the company possesses the key strengths to benefit any project.

Wavefield Inseis' range of services includes long offset 2D and high capacity 3D acquisition, using highly specified vessels and the latest seismic equipment. The company is also a full service permanent 4D acquisition provider bringing – through a number of strategic alliances – new technologies to market, to further accelerate and de-risk the replenishment of clients' reserves.

Wavefield Inseis believes a flexible and responsive project team is the most effective way to deliver the best possible results. The company is committed to preserving the health and safety of everyone involved in its operations and to protecting the local and worldwide environment.

M/V Malene Østervold

Owner	Malene Østervold Shipping
Maritime operator	Shipman AS
Built	Cochrane & Sons Ltd 1965
Converted (last)	2007 Bergen Yards, Norway
Port of registry	Bergen
Flag	Norwegian NIS, Bergen
Yard no	1490
Classification	DNV 1A1 ICE- C
Length overall	69m
Breadth	15m
Depth moulded	7.47m
Gross tonnage	2115 tons
Service speed	10 knots
Fuel capacity	600m ³
Maximum range at cruising speed	12960 Nautical Miles with 10% safety margin
Fresh water	100m ³
Ballast water	20m ³
Lub oil.	25m ³
Cranes	5 tons x 20m, 0.8 tons x 6m on Topdeck
Endurance	40 days (Working)
Total cabin capacity	32 crewmembers

Machinery

Main propulsion system	MAK 1950KW
Thruster bow, stern	Cummins 300KW, Caterpillar 544KW
Stern trusters	Brunvoll AS, SPT-VP
Clean power generator	Leroy Somer 80KW
Auxiliary machinery	2 X Caterpillar 1400KW, Cummins 195KW, Caterpillar 496KW, Volvo 390KW
Compressors	2 x NEA 62 2 x 2200 cfm, 2000 psi
Ship's generator	Stamford 460 Kva, Stamford 415 Kva, Stamford 225 Kva

Navigation and communication equipment

RADAR	Furuno, FR-2135 S
RADAR, Bridgemaster E	Furuno, FR-2115
Radardisplay	RDP-124
Electronic Chart System	Telchart V
Gyro compass	Robertson RGC 11
Autopilot	Robertson AP 9 MK II
Sonar	Furuno, CSH-20-1
GMDSS	Kelvin Hughes

Wavefield Inseis ASA

M/V Malene Østervold Seismic equipment

Streamers and sensors

Item	Type
Streamers	Sercel Seal ALS 24 bit digital
Typical streamer configuration	1 x 12000m, 2 x 6000m 25m bin width
Depth control	Digicourse 5011
Bouyancy	Isopar M
Retrievers	CONCORD SRD 500S
Streamer skin	Polyurethane
Hydrophone	SLH 20
Section length	150m
Section diameter	64mm
Lead-in	300m
Group length - no of hyd.	12.5m - 16
Streamer sensitivy	17.4 V/Bar
Number of channels	960

Source/Mechanical

Item	Type
Guns	54, Bolt Long Life Dual source
Chambers	40 – 300 cui
Dual gun clusters	16
Near field hydro-phones	AG 2540
Depth sensors	AG 2527B
Source	Typical: Dual 3500 cu.in 2 x 3 sub-arrays
Source contoller	Seamap Gunlink 2000 72 ch
NFH recording	Seamap Gunlink, SEG D
Deflectors	Baro 11
Max. streamer separation	100m
Max. source separation	80m

Recording

Item	Type
Acquisition	Sercel SEAL
Format	SEG D 8058
Recording media	Hard disk, IBM 3590, IBM 3592
Computer systems	Sun
Bird controller	Digicourse
Sampling	1/4, 1/2, 1, 2, 4ms
Aux channels	12 on SEAL 72 on Gunlink
Plotter	Isys 24"
Offline Qc	Promax
Online Qc	Argus Promax
Qc systems	IBM Linux

Navigation

Item	Type
Navigation online	Concept Spectra
Navigation offline	FGPS SeisPos
Streamer positioning	Acoustics and RGPS (for 3D)
Source positioning	Acoustics and RGPS (for 3D)
In-sea acoustics	Sonardyne SIPS-2 (for 3D)
Compasses	Digicourse 5011
Gyro compass	Furuno SC-110
Binning	Concept Reflex (for 3D)
Data formats	UKOOA
Work stations	Dell Linux
Echosounder	Kongsberg EA600 12 , 38 , 200 kHz