



## VESSEL M/V VIKLAND



Combined source/cable/buoy handling vessel.

Reservoir Exploration Technology ASA (RXT) is the only marine geophysical company specializing in multi-component seafloor seismic data acquisition. Seafloor seismic data comprises two categories – two component (2C) which is primarily used for appraisal and development where oil companies need higher quality data to optimise reservoir recovery and four component (4C) which is able to solve geophysical imaging challenges that cannot be addressed using conventional towed streamer technology. Other application areas include 4D or timelapse solutions where towed streamers are impractical due to high density of platforms, full azimuth seismic data, and shallow water areas. The Company has offices in Abu Dhabi, Houston, Rio de Janeiro and has its headquarters in Oslo, Norway. RXT is listed on Oslo Stock Exchange. (OSE ticker: RXT)

Name:	M/V VIKLAND
Hull:	No.96
Type:	Seismic Research
Port of Registration:	Nassau
Flag:	Bahamas
Class:	Det Norske Veritas
Class Register. No.:	17505
Call Sign:	C6UL5

IMO no.:	9111759
ITC:	DNV
Year Built/Rebuilt:	1995/2008
<b>Dimension</b>	
Length Overall:	73.54m
Breadth:	15.80m
Draft:	5.61m

### Seismic

<b>SEISMIC RECORDING INSTRUMENT</b>	
Type:	VectorSeis Ocean (VSO)
Number of Channels:	240 4-Component stations per VSO cable - 960 Channels
Sample Interval:	1, 2 or 4 msec
Low Cut:	Out or one of 32 frequencies (2 to 90 Hz @ 12dB/Octave)
High Cut:	374.4 Hz @ 1ms, 187.2 Hz @ 2ms and 93.6 Hz @ 3ms,
Recording Format:	SEGY
Recording Medium:	Hard Disk transcribed to IBM 3592
QC System:	VSOQC

<b>VECTORSEIS OCEAN (VSO) CABLE</b>	
Number of Cables:	12
Type:	Ion Geophysical VSO cable
Max Length:	6000m/12000m
4C Station Spacing:	25m/50m
No of Sensors/Station:	4
1x Hydrophone:	High Tech
3 x Accelerometers:	VSO MEMS/orthogonal
Hydrophone	@ 0dB preamp gain:
Sensitivity:	dP/dt 13.426Pa/s/bit P <sub>h</sub> 0.001526Pa/bit P <sub>v</sub> 0.09766Pa/bit
Hydrophone Amolitude Unit:	Pascal or Pascals/sec
Accelerometer	
Sensitivity:	40 ng/bit
Accelerometer	
Amplitude Unit:	g(Units of gravity)
Acoustic Positioning:	Sonardyne OBC 12 & Fusion 8035 Transponders

<b>NAVIGATION EQUIPMENT</b>	
Integrated Nav System:	Gator CSL
Primary DGPS:	Veripos Ultra
Secondary DGPS:	C-Nav 2050
USBL:	Sonardyne 8021, Ranger
Echosounder:	Simrad ES60
Primary Heading Sensor:	Septentrio Dual GPS
Secondary Heading Sensor:	Navigat X MK 1 (Sperry Marine)
RGPS:	Seatech Seatrack 320 Seadiff
Secondary Source Pos.:	Kongsberg RADIUS
Binding System:	OMNI
Processing Software:	SLIP/RAP21/SPSEditor
SPS QC:	GeometricsSPScheck

<b>ENERGY SOURCE</b>	
Type:	Sercel G-Gun
Size of Guns:	40cu in. up to 250cu. in.
No of Sub Arrays:	6+1 spare
Configuration:	Single/dual
Tow Width:	100m max
Firing Control:	RTS Big Shot
Depth Transducers:	2 per sub-array
Tow System:	Flexible float system with diverters
Compressor:	2 x Nueman Esser 3SEV63 and 1 x Greenfield C5T223L
Compressor Capacity:	2 x 2200cfm and 1 x 281cfm
Pressure:	2000 psi

Image is everything

# General

DWT/LT:	2580/1837
Gross Tonnage:	2959
Net Tons:	888t
Cruising Speed:	13.0 kts
Endurance Seismic	
Days Max. load:	60 days
Main Engine:	2 x MAN /B&W 8L - 28/32A - DVO
BHP Main Engines:	5440 hp
Gearbox:	2 x Man B&W Type-39 VO 20
Rudder:	2 x Becker Flaps
Steering Gear:	2x Frydenbo, Type-HS 40.03
Bow Azimuth	
Thruster:	2 x 1000 hp aquamaster
Stern Thruster:	1 x 1000 hp
Compressors:	2 x Neuman Esser SAPS 62E; 1 x Greenfield C5T223L
Electrical Power:	2 x 1500kVA, 440V, 3ph, 60Hz and 1 x 1200kW, 3ph, 60Hz
Emergency Generator:	1 x 75kVA, 440V, 3ph, 60Hz
Clean Power:	5800 kW
Fuel Capacity:	1000m <sup>3</sup>
Fresh Water Capacity:	743m <sup>3</sup>
Fresh Water	
Generator:	24m <sup>3</sup> /day
Sewage Treatment	
Plant:	1-DVZ-SKA-50 "Biomaster"
Incinerator:	1-Delta.Type-IR-10 Protected by local foam system
Black Water:	25m <sup>3</sup>
Bilge Water:	11,3m <sup>3</sup>
Sludge:	3,7m <sup>3</sup>
Waste Water:	N/A
Lube Oil:	6,0m <sup>3</sup>
Dirty Oil:	N/A
<b>Deck Machinery</b>	
Crane:	3 + 1 provision crane
Winch:	2
Paravane:	2
Hydraulic	
Power Pack:	2
Accommodation:	40 cabins for total 54 prs
Instrument Room:	1
Galley Store:	1
Mess:	1
Day Room:	1
Exercise Room:	1
Air Condition:	2
Officers/Crew:	14
Classifications:	DNV +1A1 Dynpos-Autr
<b>VESSEL NAVIGATION AIDS</b>	
DP System:	Kongsberg K-POS DP
GPS:	Furuno GP-32
Radar no. 1:	Atlas 1000
Radar no. 2:	Furuno FAR-2117
Gyro no. 1:	Navigat X MK1 (Sperry Marine)
Gyro no. 2:	Navigat X MK1 (Sperry Marine)
Gyro no. 3:	Navigat X MK1 (Sperry Marine)
Navigation Echo	
Sounder:	GDS101 Skipper

Navtex:	Furuno NX500
Weather Fax:	Furuno
<b>VESSEL COMMUNICATION</b>	
Fixed Satellite Line:	Mini-M Nera WorldPhone VSAT Caprock communications
Inmarsat:	Inmarsat C- 2 stations
M/F and H/F:	Sailor T2130/ RE2100
VHF Stationary:	2 x Sailor RT2048/ RM2042(DSC) RT5022 (DSC)
VHF Portable:	3 x SP3110 Sailor
UHF Portable:	3 pcs
Watch Keeper:	Yes
Internal	
Communication:	Telephones, Public Adress System
VHF Radio -	
GMDSS, Type 1:	3 pcs
Satellite - Inmarsat	
Type 'C':	Sailor H2098/ Philips Safecom CM
<b>VESSEL SAFETY</b>	
Safety Manning Level:	9
Rescue / FRC:	1
Workboat / MOB boat:	1
Inflatable Life Rafts:	6 x 25prs + 1 x 10 prs
Man Overboard	
Liferaft:	2 x 6 prs
Life Jackets:	62
Life Rings:	8
Emergency Radios:	3
Emergency Beacons:	1
Radar Transponders:	2
Fire Detection	
System:	105-smoke,5-heat detectors
Fire Pumps:	2 x 37m <sup>3</sup> /h
CO2 Systems:	1xNeien Larssen