



## VESSEL M/V VIKLAND



Combined source/cable/buoy handling vessel currently working in the North Sea.

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, Azerbaijan, Houston, London, Moscow and 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:	960
Sample Rate:	2ms
Low Cut:	Out, or one of 32 frequencies (3-90 Hz @ 12dB/Octave)
High Cut:	175.7 Hz at 2ms sampling
Recording Format:	24 bit SEG-D DMPX and SEG-Y
Recording Medium:	IBM 3592-JA Imation 500 GB
QC System:	VSOQC
On-line Display:	VSOQC_Graph

<b>VECTORSEIS OCEAN (VSO) CABLE</b>	
Number of Cables:	9
Type:	Ion Geophysical VSO cable
Max. length:	6000m
Available Station interval:	25m
Groups pr. section:	4
Hydrophone type:	Piezoelectric, acceleration cancelling
No. of Hydrophones/Group:	1
Hydrophone sensitivity:	At 0 dB preamp gain dP/dt 13.426 Pa/s/bit Ph 0.001526 Pa/bit Pi 0.09766Pa/bit
Hydrophone:	Pascal or pascals/sec
No. Accelerometer/Group:	3
Accelerometer sensitivity:	40 ng/bit
Accelerometer:	Vectorseis Accelerometer SVSM-Marine
Acoustic positioning:	Sonardyne 8021
Transpondur spacing:	300 m

<b>NAVIGATION EQUIPMENT</b>	
Integrated Nav System:	Gator CSL
Primary DGPS:	C-nav 2050M - RTG
Secondary DGPS:	Veripos Standard
USBL:	Sonardyne 8021 Ranger
Echosounder:	Simrad ES60
Primary Heading Sensor:	C-Plath Mk10
Secondary Heading Sensor:	C-Plath Mk10

<b>ENERGY SOURCE</b>	
Type:	Sercel G-Gun; 3990 cu.in
Number of Sub Arrays:	6 sub arrays in use + one spare
Configuration:	Single or dual source
Tow width:	Dual Source 100m max COS
Firing control:	Real Time Systems Big Shot
QC:	Big shot and Gator
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:	Max 2500 PSI

The future is on the seafloor

RESERVOIR EXPLORATION TECHNOLOGY

# General

Depth moulded:	5.61m
DWT/LT:	2580/1837
Gross Tonnage:	2959
Net Tons:	888t
Cruising Speed:	13.0 kts
Endurance seismic days max. load:	60 days transit
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* 1200kw, 3ph, 60Hz
Emergency generator:	1 x 75kVA, 440V, 3ph, 60Hz
Clean power:	5800 kW
Fuel capacity:	1000m3
Fresh water capacity:	743m3
Fresh water generator:	24m3/day
Sewage treatment plant:	1-DVZ-SKA-50 "Biomaster"
Incinerator:	1-Delta.Type-IR-10 Protected by local foam system
Black water:	25 m3
Bilge water:	11,3m3
Sludge:	3,7 m3
Waste water:	N/A
Lub oil:	6,0 m3
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:	C-Plath Mk10

Gyro no. 2:	C-Plath Mk10
Gyro no. 3:	C-Plath Mk10
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 37m3/h
CO2 systems:	1(Neien Larssen)
Lg. Portable foam extinguishers:	As per Fire Plan