VESSEL M/V OCEAN PEARL

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 OCEAN PEARL
Year Built:	1997
Shipyard Name and Location:	Gemyat Shipyard, Turkey
Year Refurbished:	2001/2006
Shipyard:	Viktor Lenac Shipyard, Rijeka, Croatia, GMC-Slav
Vessel Owner:	Norfield Shipping AS

Classification:	BV Class I 3/3, IE, Cable layer, AUT MS, PYD, MA,TA DNV + 1A1 HELDDYN POS-AUT
Registration:	Bergen, Norway
Flag:	Norwegian, NIS
Gross Tons:	7828
Net Tons:	2349
Length:	108.61m
Beam:	18.0m
Draft:	6.80m

Seismic

SEISMIC RECORDING INSTRUMENT	
Type:	VectorSeis Ocean (VSO)
Number of Channels:	240 4-component stations per VSO cable - 960 channels
Sample Interval:	1, 2 or 4 msec
Filters:	1.43Hz-6dB/octave
Low Cut:	Out or one of 32 frequencies
High Cut:	374.4 Hz @ 1ms, 187.2 Hz @ 2 ms & 93.6 Hz @3 ms
Recording Format:	SEGY
Recording Medium:	Hard disk transcribed to IBM 3592
QC System:	VSO QC

VECTORSEIS OCEAN (VSO) CABLE	
Number of Cables:	12
Type:	Ion Geophysical VSO cable
Max Length:	6300m /12600m
4C Station Spacing:	25m/50m
No of Sensors/ Station:	4
1 x Hydrophone:	High Tech
3 x Accelerometers:	VSO MEMS (orthogonal)
Hydrophone Sensitivity:	@ 0dB preamp gain: dP/dt 13.426 Pa/s/bit, P_h 0.001526 Pa/bit and P_l 0.09766 Pa/bit
Hydrophone Amplitude Unit:	Pascals or Pascals/sec
Accelerometers Sensitivity:	40 ng/bit
Accelerometers Amplitude Unit:	g(Unit of gravity)
Acoustic Positioning:	Sonardyne OBC 12 and Fusion 8035 Transponder

NAVIGATION EQUIPMENT	
Intergrated Nav System:	Gator CSL
Primary DGPS:	Veripos Ultra
Secondary DGPS:	C-Nav
USBL:	Sonardyne 8021, Ranger
Echosounder:	Simrad EA500
Primary Heading Sensor:	SGBrown 1000S
Secondary Heading Sensor:	SGBrown 1000S
Tertiary Heading Sensor:	Alpha Minicourse
RGPS:	Seatex Seatrack 320, Seadiff
Secondary Posidioning:	Kongsberg RADius
Binning System:	GEDCO OMNI
Processing Software:	SLIP/RAP21/SPSEditor
SPS QC:	GeometicSPSCheck

ENERGY SOURCE	
Type:	Sercel G-Guns
Size of Guns:	40 cu. in. up to 250 cu. in.
Number of Sub. Arrays:	6
Configuration:	Single/dual
Tow Width:	100m max
Firing Control:	RTS Bigshot
Depth Transducers:	AG Geophysical
Tow System:	ADV
Compressor:	LMF 138-62 x 2
Compressor Capacity:	2200CFM each
Pressure:	2000 psi

Image is everything

RESERVOIR EXPLORATION TECHNOLOGY

General

Last Dry Dock:	March 2010
Next Scheduled Dry Dock:	Q4 2011
Total Accommodation Capacity:	65 persons
Fuel Capacity/ Endurance:	1600m³/150 days
Fuel Consumption (full ops):	10 metric tons/day
Water Capacity/ Endurance:	610 metric tons/days
Cruising Speed:	12 knots
Propulsion:	2x1600 kW Aquamaster, US2001/5250 FP
Power Plant:	2x1800 kW Wartsila 6SW28 @ 900 rpm 2x2340 kW Wartsila 6R32 @ 720 rpm
Autopilot:	Robertson AP9
Gyro Compass:	S.G.Brown 1000m x 2

VESSEL NAVIGATION AIDS

GPS Receiver (Bridge):	Navcom 2000-D
Radar - Make/Model:	Decca Bridge Master
ARPA	3 cm
Radar Radius:	Max. radar range 96 NM
2nd Radar - Make/Model:	Decca Bridge Master
ARPA	10 cm
2nd Radar Radius:	Max. radar range 96 NM

VESSEL COMMUNICATION

Callsign:	LAGD 6
SSB Make/Model:	SAILOR HC4500 MF/HF, GMDSS A3 area equipped
SSB Frequencies:	Marine band
SSB Range:	150-200NM
VHF Make/Model:	2xMarine VHF DSC tx/rx
VHF Frequencies:	Marine band
Emergency Radio-Type:	3xSailor Hand Held Marine VHF Survival Craft Radios
Emergency Radio Frequencies:	2182 kHz, VHF
Emergency Radio Range:	Emergency SSB 150-200 NM, Emergency VHF 20NM
Marisat - Type Make/Model:	2xInmarsat "C" trans-receiver 1xNera Saturn Bm, voice, MSD & fax
Vsat/Norsat Make/Model:	1xSeaTel 2.4 mtr C-Band Antenna System, 128 kbps link for 6 voice/fax lines, data & internet access connected to shipboard network. Max. bandwith 2.0 Mbps.
Weather Fax Make/Model:	Furuno DFAX-207

VESSEL SAFETY

Life Boats:	2x65 man enclosed lifeboats
Life Rafts:	2x25 persons plus 4x20 persons
Life Jackets:	100 off, Type Margi art. No 0474, plus 30 work vests for seismic operations
Survival Suits :	65 Helly Hansen E-307
MOB Boat:	GREBEN RB4.3
Size/Capacity MOB Boat:	1x4.3m
Location/launcing method MOB Boat:	Single point davit MOB launch system, GREBEN RC 12/3.3
Expected Response time MOB Boat:	3-5 min.
Maximum Speed MOB Boat:	15 knots
Emergency Radios:	2 x ACR#2726a
Emergency Beacons:	2 x Satellite 406 epirbs ADCE 0207CD 4201
Radar Transponders:	2 – ACR pathfinders
Fire Detection System:	Notifier AFP 200
Fire Pumps:	2 x Carver 225 gpm 1.5 in. 480 V Marathon motor
Fire Suits:	2 x Chieftain for structural type fires
CO2 Systems:	Yes

FIRE FIGHTING EQUIPMENT

Alarm System:	Minerva T2000, Thorn Systems
Engine Room System(s):	Fixed CO2
Compressor Room System(s):	Extinguisher and fire hoses
Instrument Room System(s):	Extinguishers and fire hoses
Cable Store System:	Cable deck area - Extinguishers and fire hoses
Galley System:	Extinguishers and fire hoses
Accomodation System:	Extinguishers and fire hoses
Other Fixed Systems:	Helicopter landing area, Fixed Foam system
Fire Pumps Number/Capacity:	2-15 cu.m/m each

HELICOPTER DECK

Helicopter Deck Size/Rating:	19.3t, size D-19.5

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