M.V. SARA MAATJE V

This vessel is equipped to carry out multi-streamer 3D acquisition in water depths too shallow for a conventional vessel. Systems include 24 bit digital streamers, clustered sleeve airgun arrays and full multi-sensor positioning system.

HORIZON
EXPLORATION LTD

RECORDING SYSTEM

- Syntron 480-24 Bit MSTS digital recording system, 480 channel (expandable) capability and 3480 cartridge recording
- Syntron Reduced Diameter low-noise streamer, incorporating 6.25m/12.5m/25.0 group lengths
- Real-time and off-line seismic QC facilities
- Up to 50m spread between 1,200m streamers

ENERGY SOURCES

- High output clustered sleeve airgun array (570 cu in standard), expanded arrays available.
- Horizon ISC source controller for synchronisation and monitoring
- Hamworthy air compressor (2,000 psi)

NAVIGATION SYSTEMS

- Fully integrated 'SPECTRA' marine navigation system P2/91 and real-time P1/90 files
- All available positioning information (DGPS, radio-navigation, compasses and Lasertrak) used for real-time steering and coverage displays
- All raw navigation recorded (available for subsequent analysis)
- Extensive real-time and end of line assessment available via 'SPECTRA'
- Onboard post-processed binning displays via 'REFLEX'

VESSEL DETAILS

GRT:	220
Length:	39.5m
Beam:	9.7m
Cruising Speed:	10 knots
Accommodation:	15
Normal Draught:	1.80m

The Sara Maatje deploys twin streamer 24 bit recording technology from a purpose built shallow water hull to bridge the gap between conventional deep water 3D vessels and labour intensive transition zone techniques. The vessel is fully self contained with the complete 3D seismic installation, accommodation and navigational facilities onboard a highly manoeuvrable shallow draught hull with up to 14 days endurance.

Low drag, high efficiency diverters are used to deploy twin digital streamers for two lines of full fold coverage at 25m separation, with minimum offsets from a single, clustered sleeve airgun source. A full positioning network employing fan-beam laser, acoustics, DGPS and streamer compasses is utilised by the 'SPECTRA' integrated navigation system.

Seismic source control, synchronisation and monitoring are performed by the Horizon ISC (integrated source controller) and SHM (source hydrophone monitor). The former configures arrays and controls individual gun timing using the latest SV-3 solenoids and sensors. Near field signatures for each cluster are monitored by the SHM..

SPECTRA and REFLEX
are products of Concept Systems Ltd

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