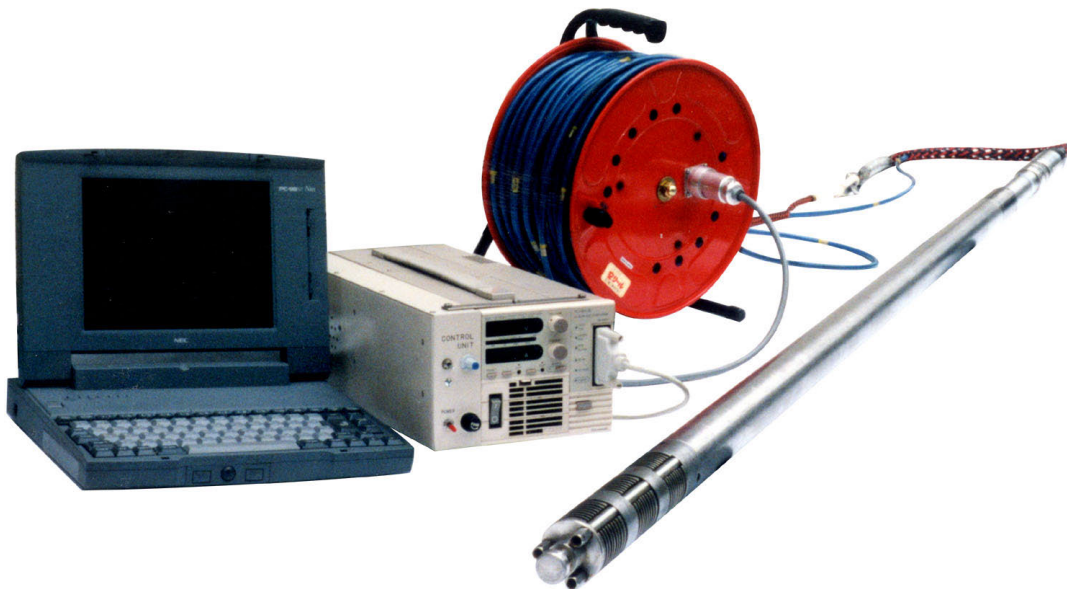


GEOLOGICAL, GEOPHYSICAL,
GEOTECHNICAL SERVICES AND
INSTRUMENTS

OYO

INNOVATIVE DOWNHOLE SEISMIC SOURCE

OWS



<Abstract>

OWS (OYO Wappa Source) is an innovative downhole seismic source with fully different principle from those the conventional ones had.

The source can transmit excited energy to the ground through fluid with higher efficiency. Getting larger seismic force from small electrical energy is focused for designing, which makes no damages to the borehole wall.

<Features>

- The simplest seismic source being suitable to a 100m scaled crosswell seismic survey. (depends on geological condition)
- Good reproducibility and high frequency source
- Efficient stacking with high speed excitation at every 10 seconds
- Efficient excitation without any damages to borehole wall
- Applicable to 66mm dia. hole and up to 300m in depth
- Simple structure for easy maintenance

<Specifications>

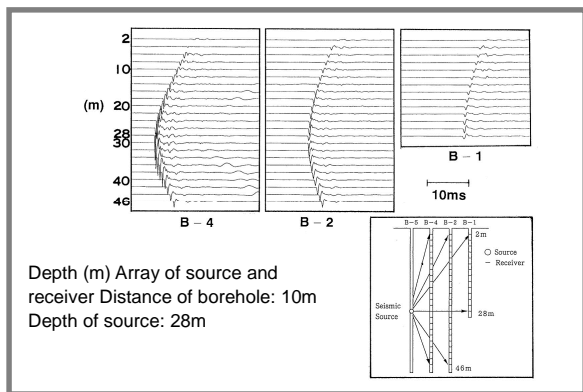
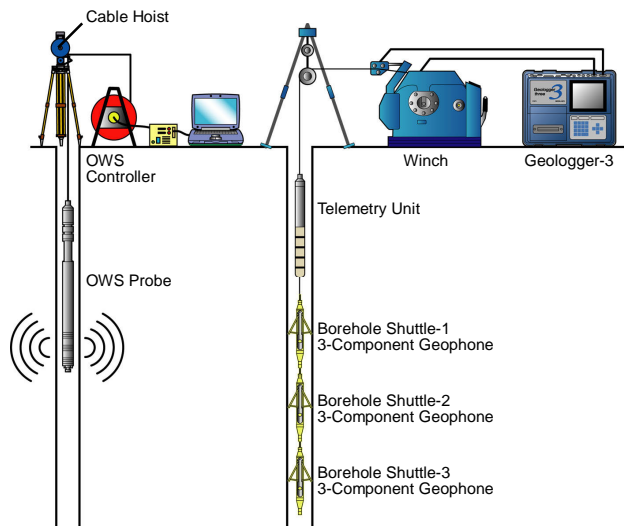
OWS probe, Model-1394B

- Outer dia. : 50mm x 2340(L) mm
 Weight : 19kg
 Operating : 0 to 60 deg C
 temperature
 Trigger : Two type of trigger signals
 are available
 1) Analog signal from
 geophone inside the source
 2) Signal conditioned pulse
 signal (TTL level)

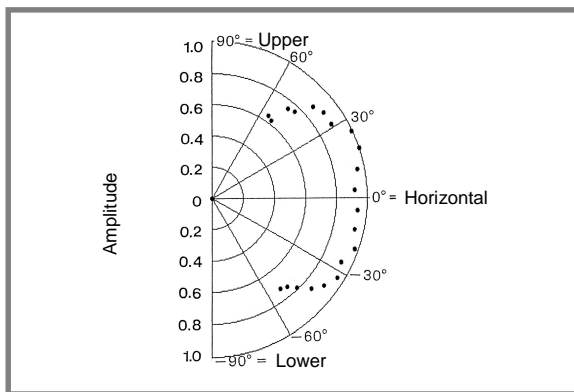
OWS controller Model-1395A

- Power requirement : AC 100V ± 10%
 Operating : 0 to 40 deg C
 temperature
 Dimensions : 295(W) x 140(H) x 450(D) mm
 Weight : 12kg

<Crosswell Seismic Survey>

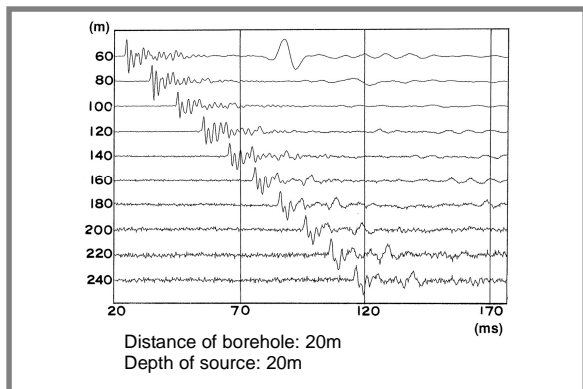


Crosshole measurement use with hydrophone

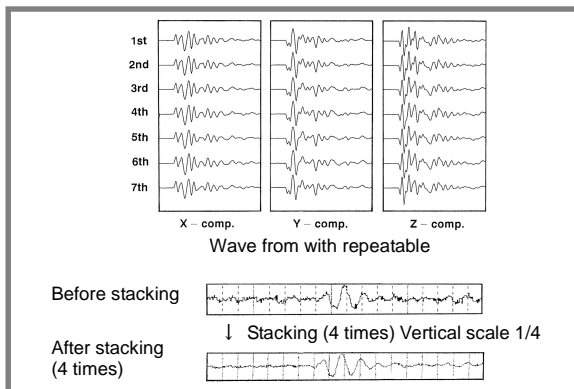


Radiation pattern of OWS

Distance of borehole: about 6m Geology: Tertiary conglomerate



Example of record by Borehole shuttle
 Maximum distance between source and receiver:
 220m with non stack
 Geology: Tertiary mudstone



Repeatability of wave form
 It is available for effective stacking with good repeatable
 wave and stable trigger signal from OWS

OYO
 oyo corporation



JQA-2772

Please note specifications are subject to change without notice for the improvement.

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■ Your representative

