

Open hole Cased hole

## ZAS-03 SI Sonic Log and Cement Bond Log Tool

*The equipment was development by AO NPP VNIIGIS in cooperation with OOO NPC ECO-Technology Foundation*

### SCOPE OF APPLICATION

The tool is designed to evaluate the quality of casing cementing and logging of open hole sections by kinematic and dynamic parameters of elastic waves

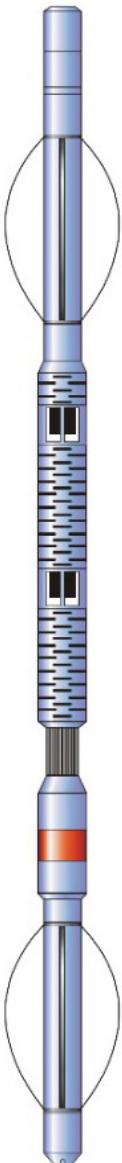
### CHALLENGES

- identification of poor cementing and bad-bond intervals
- lithology differentiation, identification of reservoirs, porosity determination.

### FEATURES AND ADVANTAGES

- high quality operation in a variety of geological and technical conditions;
- well logging at a wide range of borehole and casing diameters.
- quick replacement of transmitters.

### SPECIFICATIONS



Probe scheme	R <sub>2</sub> 0,5R <sub>1</sub> 1,5T
Max operating temperature, °C	120
Max hydrostatic pressure, MPa	80
Borehole diameter, mm	100÷400
Tool dimensions, mm	
- size (without centralizers)	73
- length	max 4800
Transmitter size for replacement, mm	73, 90, 140
Number of cores used, pcs	3
Tool weight, kg	max 60