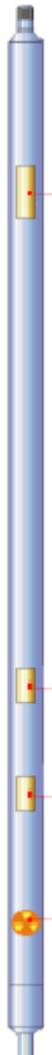


Open hole      Closed hole

# SNGK-Sh Digital Gamma-ray gross-count spectral logging tool

***The equipment was development by AO NPP VNIIGIS in cooperation with AO NPF GITAS***

is designed for reservoir saturation nature determination, lithological profiling, abnormal thermal neutrons absorbent estimation (Cl, H, Si, Ca, Fe, Mn, Ni, Co, et al.), estimation of scattering, absorbing neutron and gamma-ray parameters as well as their ratio.



## REGISTERED INFORMATION CAN BE USED FOR:

- reservoir saturation character determination;
- downhole cross-section lithological breakdown;
- element content estimations, which anomalously absorb thermal neutrons (Cl, H, Si, Ca, Fe, Mn, Ni, Co and others);
- estimations of dissipative and absorptive neutrons and gamma-radial parameters in rock and their correlation.

## FEATURES AND ADVANTAGES:

- register gamma-radiation in wide energy range, increasing SNGK methodical possibilities;
- the tool is made in the form of digital two sonde module, which contains two multichannel energy spectrometers.

## SPECIFICATIONS

Gamma-quantum measurements range, MeV	0,1÷8,0
Energy resolution, %	up to 12
Integral nonlinearity of spectrum energy scale , %	up to $\pm 3$
Energy scale instability, %	up to 1
Spectrometric track dead-time, microsec	4
Maximum cable length, mm	5000
Maximum pressure, MPa	60
Operating temperature range, °C	-5 ÷ +120
Tool dimensions, mm:	
- diameter	48
- length (without centralizers)	up to 1650
- length (with centralizers)	up to 3000
Weight (without centralizers), kg	up to 12
Weight (with centralizers), kg	up to 21

**Delivery in complete set:** downhole tool, interface unit, technological software, maintenance tool, spare parts and accessories, certificate, operating manual.