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:

- registrate 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 ±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 - length (without centralizers) - length (with centralizers)	 48 up to 1650 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.

VNIIGIS®

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