

Cased hole

TzSP-GK-S-60/73/76/90* Digital gamma-ray spectral logging tool



is designed for natural radioactive element content quantitative measurements: thorium (Th), uranium (U) and potassium (K) in rocks while different wells surveying.

FEATURES AND ADVANTAGES

- · interval-by-interval full gamma-ray spectra accumulation for further digital data telemetering;
- improved accuracy while U, Th, K content determination;
- analytical accounting of well design effect (diameter, casing, cement bond);
- · referenceless energy scale stabilization and calibration, gain control

SPECIFICATIONS

| Content measurement range, % - K - U - Th | 0,1-20 (1-100)•10 ⁻⁴ (1-100)•10 ⁻⁴ |
|---|--|
| Gamma-quantum energy range, MeV | 0,06÷3 |
| Measurement basic relative error, % | up to 5 |
| Scintillation detector type | NaJ(TI)/CsI(Na)/ BGO |
| gamma-ray energy resolution (660 KeV), % | up to 12/14/15 |
| Energy channel number | 256 |
| Power supply voltage, V | 50-75 |
| Current consumption, mA | up to 100 |
| Maximum hydrostatic pressure, MPa | 60 |
| Maximum operating temperature, °C | 120 |
| Downhole tool dimensions, mm: - diameter - length | 60/73/76/90 up to 1200 |
| Weight, kg | up to 8/10/15/20 |

The downhole tool contains registration and processing electronic module, telemetry system and scintillation detector with photoelectronic multiplier. The tool is provided with full software for Vulkan, Gektor recorder and interpretation software for openhole and cased borehole logging. The tool is to be run with one-core or three-core logging wireline.

*The apparatus is certificated.





