

Open hole Cased hole

TzGS-1 digital gamma-ray spectrometer



is designed for Uranium, Thorium, Potassium content determination along oil and gas wells up to 10000 m deep and 55-300 mm in diameter through natural gamma-ray energy distribution.

TzGS tool can be combined with any type of computerized well logging stations.

FEATURES AND ADVANTAGES

- interval-by-interval gamma-ray spectra accumulation in the downhole
- tool for the further digital data telemetering;
- natural gamma-spectrum soft component analysis;
- improved accuracy while U, Th, K content determination

SPECIFICATION

Content measurement range, %:	
- K	0,1-20
- U	$(1-200) \cdot 10^{-4}$
- Th	$(1-200) \cdot 10^{-4}$
Basic relative error limits of a separate component content, %	15
Quantization levels number	128
Operating pressure, MPa	60, 80, 100
Maximum operating temperature, °C	120
Downhole dimensions, mm	
- diameter	48, 73, 90, 110
- length	1200
Weight, kg	15, 40, 50, 60



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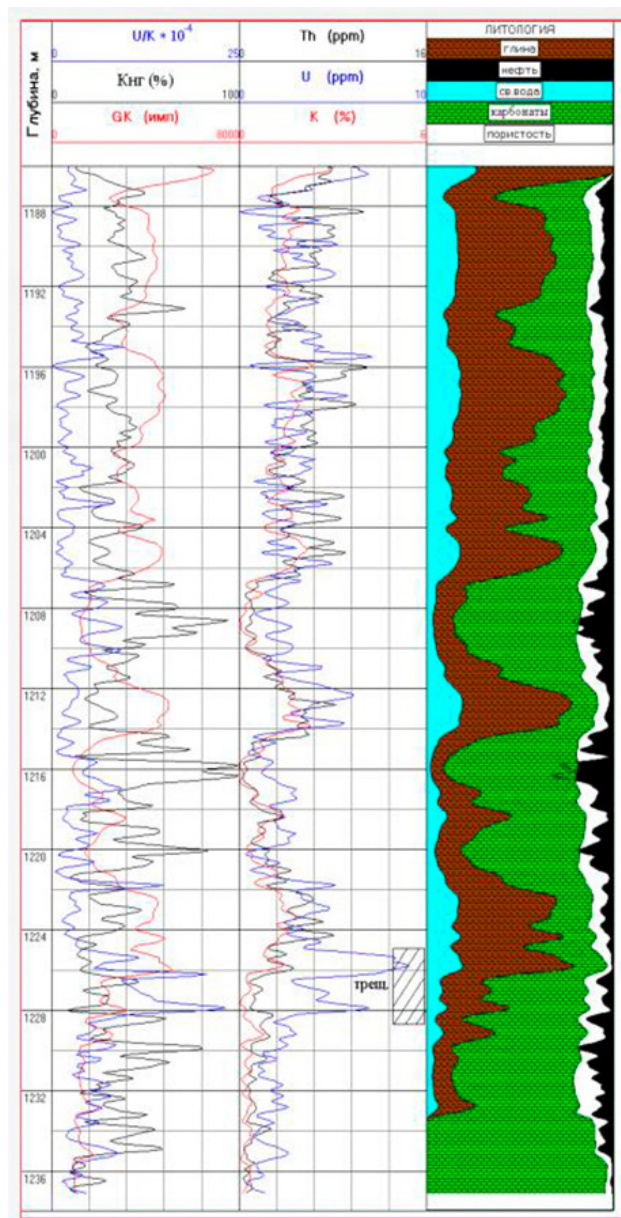
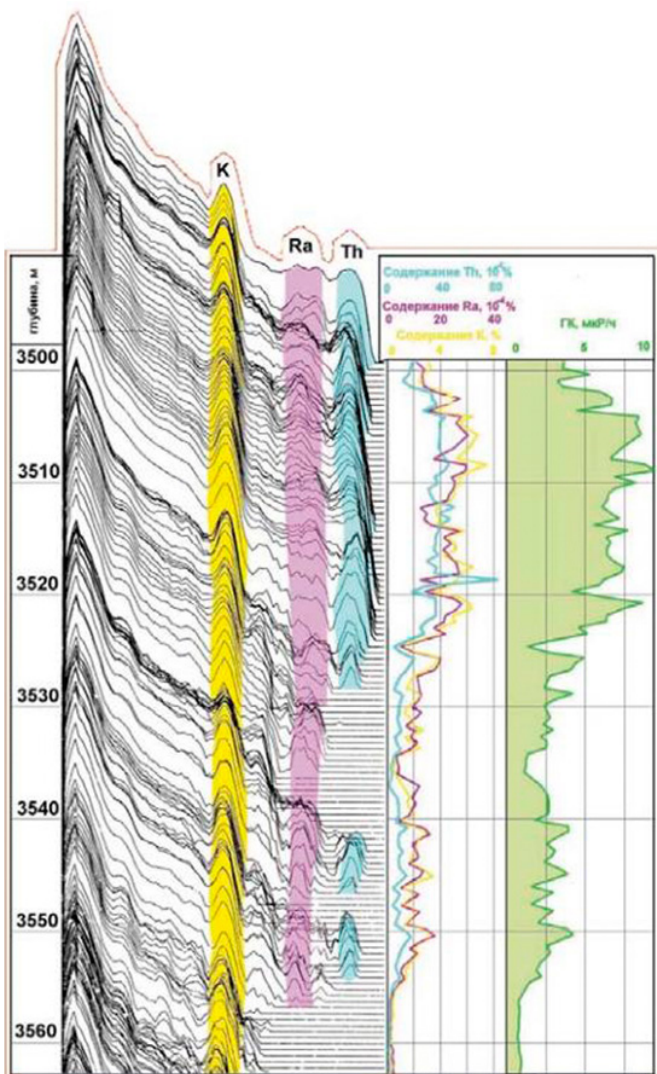
SCIENTISTS

WELLS

METHODS

PURPOSES
 ACHIEVEMENTS

BOREHOLE MEASUREMENT RESULTS



Research and production enterprise that creates special and unique methods and technologies for geophysical research of oil and gas, ore and coal wells

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