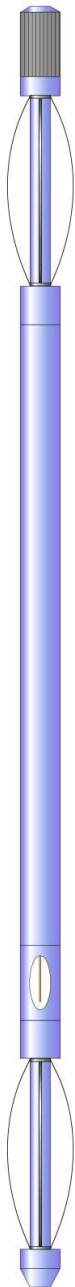


Cased hole

MID-SK-GK (MID-Gazprom scanner) scanning wireline magnetic-pulse defectoscope and thickness measuring tool with GK modul



is designed to control technical condition of steel tubing and pump and compressor string in unkilld gas and oil wells of single-column and columned constructions, perforation interval specification.

FEATURES AND ADVANTAGES

- the possibility of two pipes defectoscopy and thickness gauging performance with pipe wall thickness change value and their transverse and longitudinal defects*;
- the possibility of columned well construction determination (up to 4 pipes);
- high-sensitive thermometer and GK presence for according to depth.

APPARATUS COMPOSITION

- digital downhole tool with two centering devices, surface interface block with power supply, software, control and monitoring station;
- operates with computer of Notebook type (mobile variant) or in the composition of any software-controlled logging station.

*high radial and azimuthal resolution

SPECIFICATIONS

Pipe maximum diameter, mm	324
Thermometer resolution, °C	0,01
Thermometer time constant, sec	0,5
A single-pipe wall thickness measurement error, mm:	
- for single pipes 2.5"	±0,3
- for single pipes 5"	±0,4
Through-tubing casing 5" wall thickness measurement error, mm 5"	±0,7
Minimum length of a «crack»-type detectable defect along the pipe axis, mm:	
- for single pipes 2.5"	14
- for single pipes 5"	30
- for casing pipes 5" through-tubing measurement	70
Minimum length of a «transversal crack»-type detectable defect	1/6 of the perimeter
Maximum operating temperature, °C	120 (150)
Maximum operating pressure, MPa	100 (120)
Downhole dimensions, mm:	
- diameter	42
- length (including centralizers and GR module)	2595
Weight, kg	9



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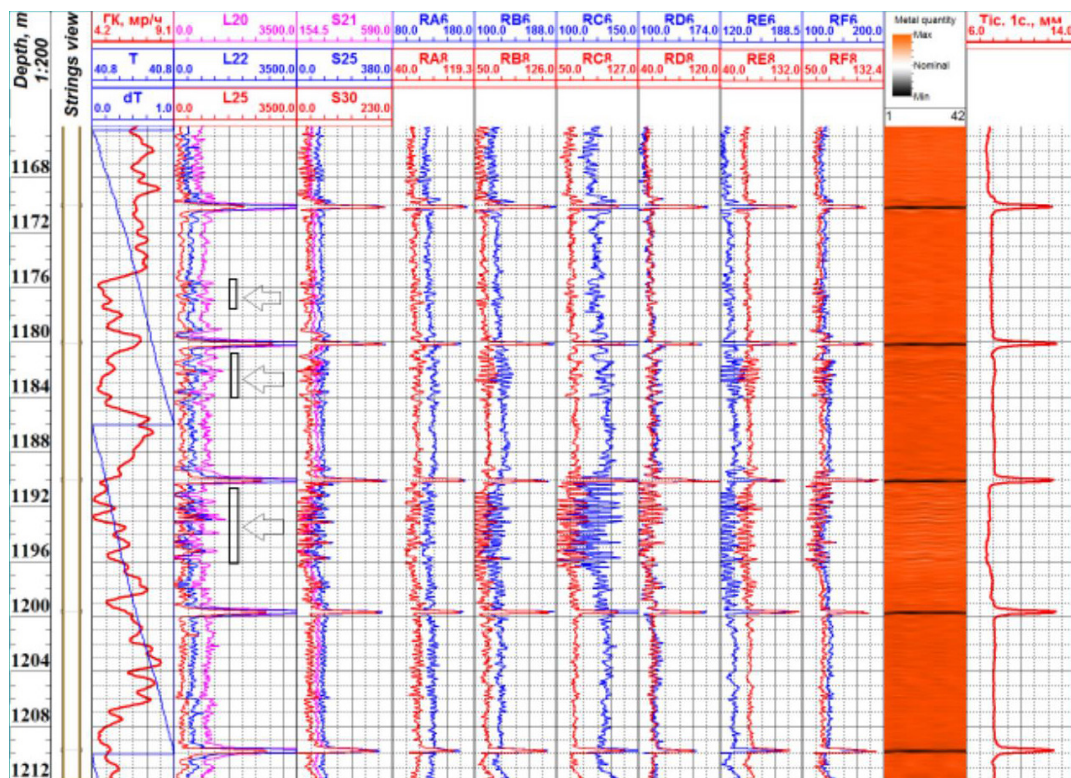
SCIENTISTS

WELLS

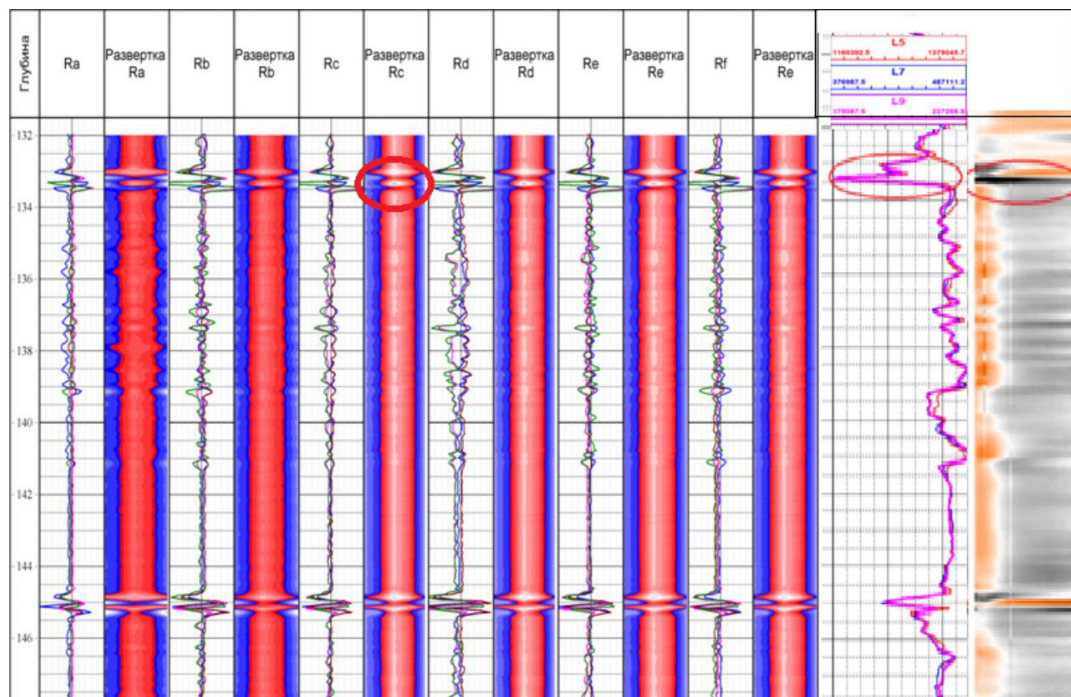
METHODS

PURPOSES
ACHIEVEMENTS

Example of perforation interval identification



Example of collar defect detection



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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