

Cased hole

MID-K-GK (MID-Gazprom) wireline magnetic-pulse defectoscope and thickness measuring tool



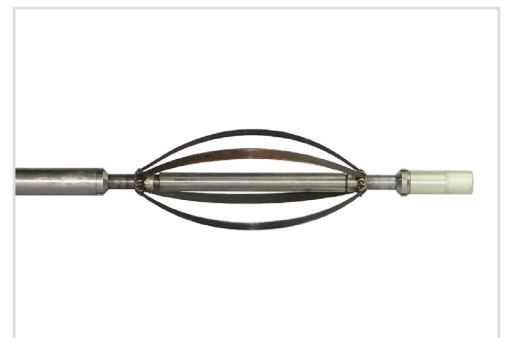
is designed to control technical condition of tubing, casing pipes and well strainer by a complex of methods including defectoscope and thickness measuring tool, highly sensitive thermometer, gamma-ray logging and pressure sensor.

In most drilling wells MID-K-GK is used to control:

- well construction having till 4 casings;
- compliance to casing interval project with different diameter and wall thickness;
- tail liner installation interval;
- casing integrity and rate of wear during tool operation.

In the running wells MID-K-GK allows to define:

- perforation intervals;
- cut through failure position;
- casing blowout in double casing string well program;
- factual installation intervals of sealing patch;
- factual installation depth of casing packer and etc.;
- well construction till 4 casings;
- corrosion intervals and casing rate of wear;
- casing failure intervals, requiring repair;
- first, second and third casing thickness.



SPECIFICATIONS

Pipe maximum diameter, mm	324
A single-pipe wall thickness measurement error, mm:	
- for single pipes 2.5"	±0,4
- for single pipes 5"	±0,5
Through-tubing casing 5" wall thickness measurement error, mm	±0,7
Minimum length of a «crack»-type detectable defect along the pipe axis, mm:	
- for single pipes 2.5"	30
- for single pipes 5"	50
- for casing pipes 5" through-tubing measurement	70
Minimum length of a «transversal crack»-type detectable defect	1/6 of the perimeter
Thermometer resolution, °C	0,01
Thermometer time constant, sec	0,5
Maximum operating temperature, °C	120, 150, 175
Maximum operating pressure, MPa	100 (110)
Downhole dimensions, mm:	
- diameter	42
- length	2595
Weight, kg	9
Power consumption, W	up to 4



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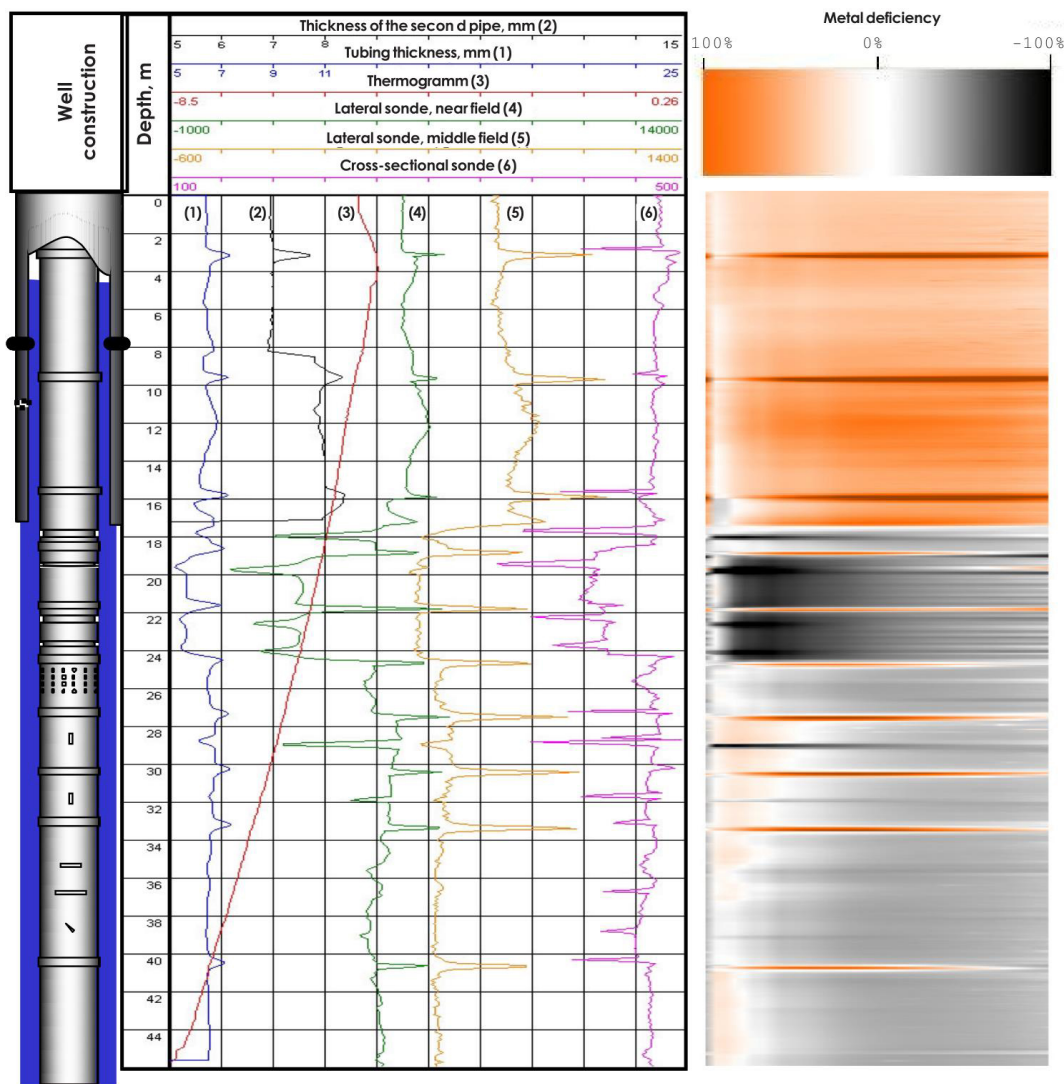
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THE EXAMPLE OF CASING THICKNES AND DEFECTS DETERMINATION BY MID-K (MID-GAZPROM) EQUIPMENT



The apparatus is certified in the "GOST R" system, There is the methodological manual for logging operations in gas and oil wells and processing of measuring data. The manual is approved by JSC «GAZPROM».



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