Cased hole

# EMDS-S scanning electromagnetic defectoscope and thickness measuring tool

is designed for detailed casing string conditions survey, defects form and size identification; cumulative and drilling perforation holes detection, wall thickness determination within certain sectors

## FEATURES AND ADVANTAGES

- casing small defects identification (longitudinal cracks and cross cracks and holes);
- identification of local reductions in casing wall thickness within corrosion sectors and mechanical wear zones (including key seats);
- cumulative and drilling perforation holes detection.

## SPECIFICATIONS

| | |
|---|---|
| Casing pipe size, mm | 140-168 |
| Wall thickness measurements range, mm | 3 ÷ 12 |
| Wall thickness measurements relative error (full-circle averaged), % | 10 |
| Wall thickness measurements relative error for every sector, % | 20 |
| Defects minimal length (cracks), mm | 30 |
| Defects minimal size (holes), mm | 9 |
| Minimal spacing between perforation holes, mm | 100 |
| Max. hydrostatic pressure, MPa | 60 |
| Max. operating temperature, °C | 100 |
| Cable | one-core cable |
| Tool dimensions, mm:<br>- surface panel<br>- downhole tool diameter<br>- downhole tool length | <br>290x260x150<br>102, 112<br>3100 |

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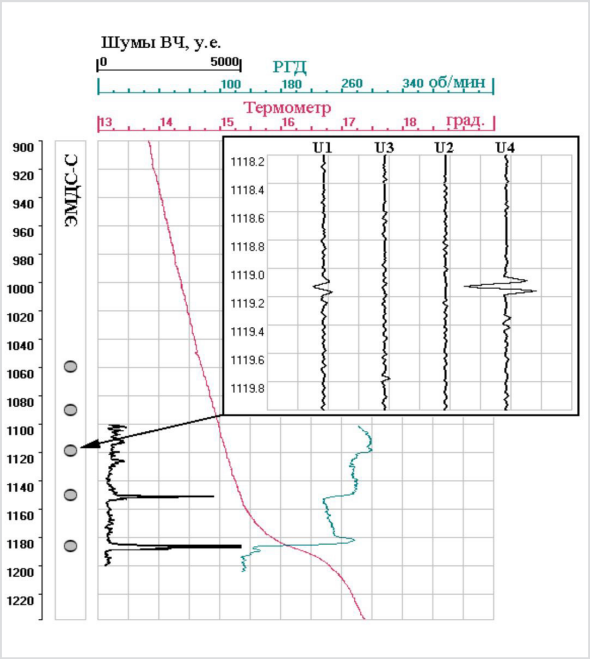
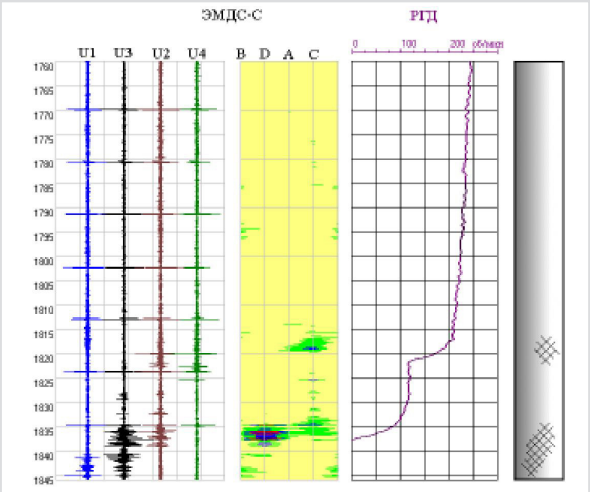
## Local defects emision

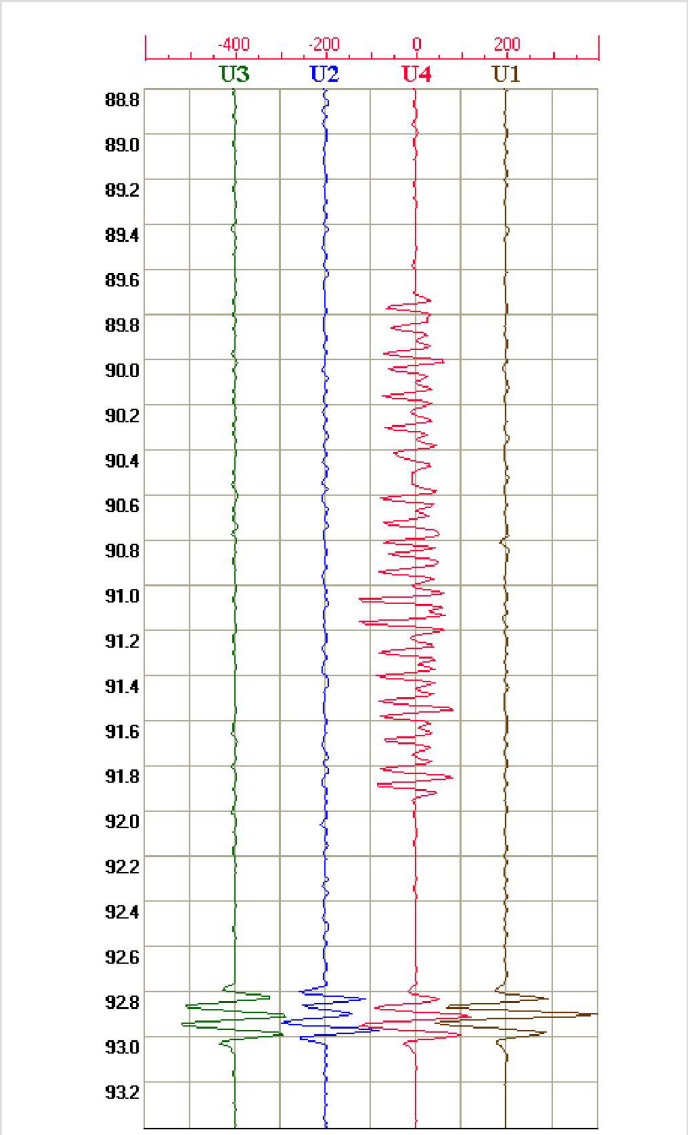



Accordind to EMDS-S data interpretation more than 20 local defects- corrosion pits 0.9-13 cm3 in volume are revealed in injection point № 529 with the interval of 1060-1350 m

## Areal corrosion spotting of EMDS-S




## Perforation holes emision




Monitor well NPF «Geophizika». EMDS-S defectoscope clear fixates all 21 holes, which were drilled by PS-112 perforator. All the holes are drilled on the one side of the column, that's why it is fixated only by one sonde of small defects

The defectoscope log indicates two areas of intensive corrosion attack in the casing. These areas are characterized by many local anomalies of local defects curves and by areas of wall thickness reduction at the separate sectors. The flowmeter log indicates a water leaking from a cracks in these areas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