

# **NEW: CONDITION ASSESSEMENT TOOL FOR STEEL CASED WATER WELLS “Well-CAT 20”**

**Russell NDE Systems Inc. announces the deployment of the world’s first “Smart Pig” designed especially for assessing the condition of the steel casings of large bore water wells.**



**The Well-CAT 20 smart pig is lowered into a 1250’ well using a picker truck or a davit arm mounted on a pickup.**

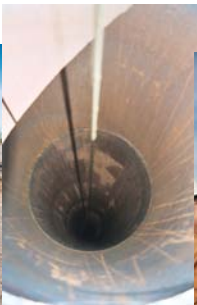
**It is designed to inspect the steel casing to a maximum depth of 2200’ (685M).**

**A wireline provides power to the tool and is used to lower it into the well.**

**A valuable feature of the tool is its ability to measure the wall-thickness of the steel casing without having to touch it, and without having to clean the water scale from the inside of the casing. In fact, the clearance of the tool inside the well is an amazing 3” (75mm).**

**More than 90 channels of data produced by the tool are stored in non-volatile memory on board. This has the advantage that if power from the wireline is interrupted, the data logged to that point is preserved.**

**Soft centralizers are used to center the tool, without the possibility of damaging the casing in thin areas.**

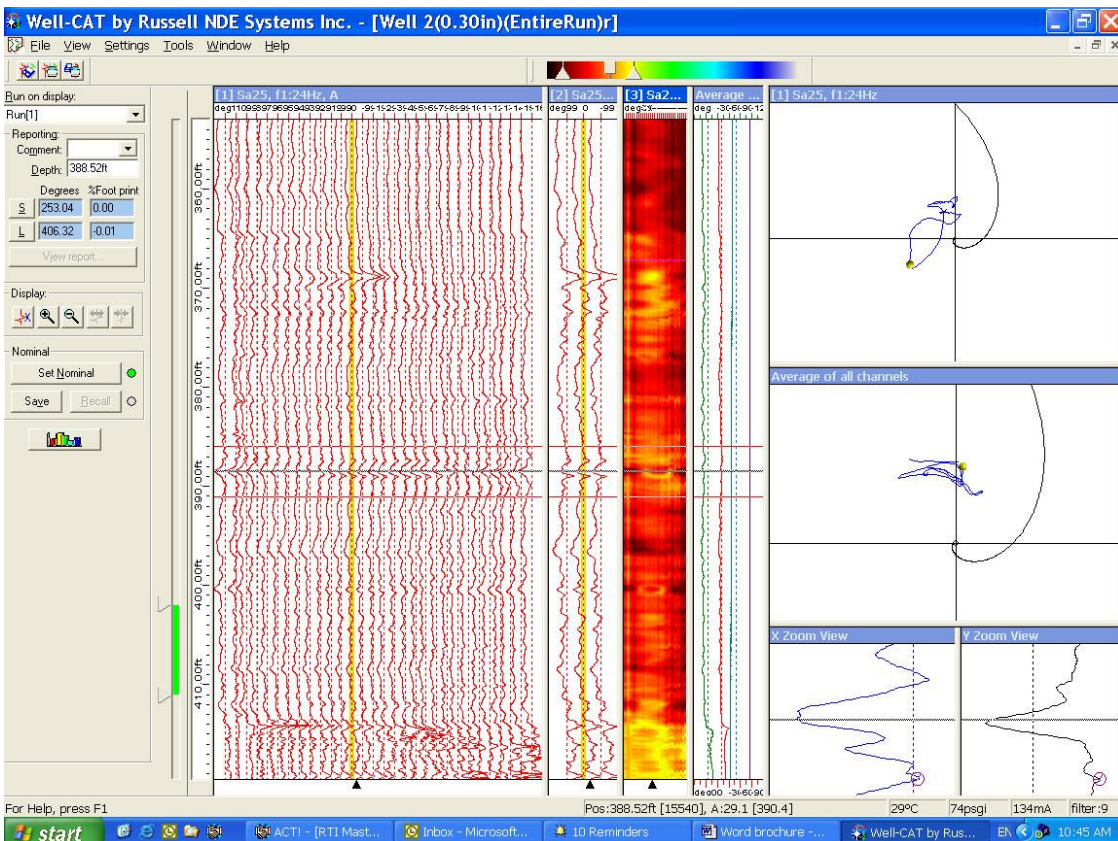


**The Tool packs into 3 boxes for**

**transport. Data is downloaded from the tool on site and can be reviewed immediately. Detailed analysis software is used to size and locate small defects accurately**

# SPECIFICATIONS

- **Depth Range:** To 2200' (685m)
- **Tool weight:** Less than 200 lbs (91 kg)
- **Dimensions:** Three sections, field assembled in 20 minutes
- **Total length:** approx 96".
- **Channels:** 91 channels plus self-diagnostics
- **Science:** RFT technique, proven in pipelines, exchanger tubes
- **Measurement:** Wall Thickness, Temperature, Pressure, Speed
- **Odometer:** Imperial or Metric accurate to 0.1% depth prediction
- **Power:** 88 – 185 VDC, 110 Watts max.
- **Speed:** Logging speed: 33'/min (10m/min)
- **Logging direction:** Up hole (can drop down hole faster than log speed)



The Well-CAT 20 is designed to detect thinning due to corrosion in steel pipes. It has equal sensitivity to internal or external thinning and can size general thinning to within 10% of actual remaining wall thickness. Data analysis is semi-automatic and results are presented as chart logs, voltage planes, color maps, histograms and a spreadsheet showing the remaining wall at defined depths. Data can be sorted by depth or severity or other parameters. Data can also be trended and displayed side by side for year to year comparisons.

**For information: Call 1-800-661-0127, ask for Dave, Ad or Dan.**  
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