

# WX50

DIGITAL CABLE STANDOFF

The world's first cable-mounted data package.



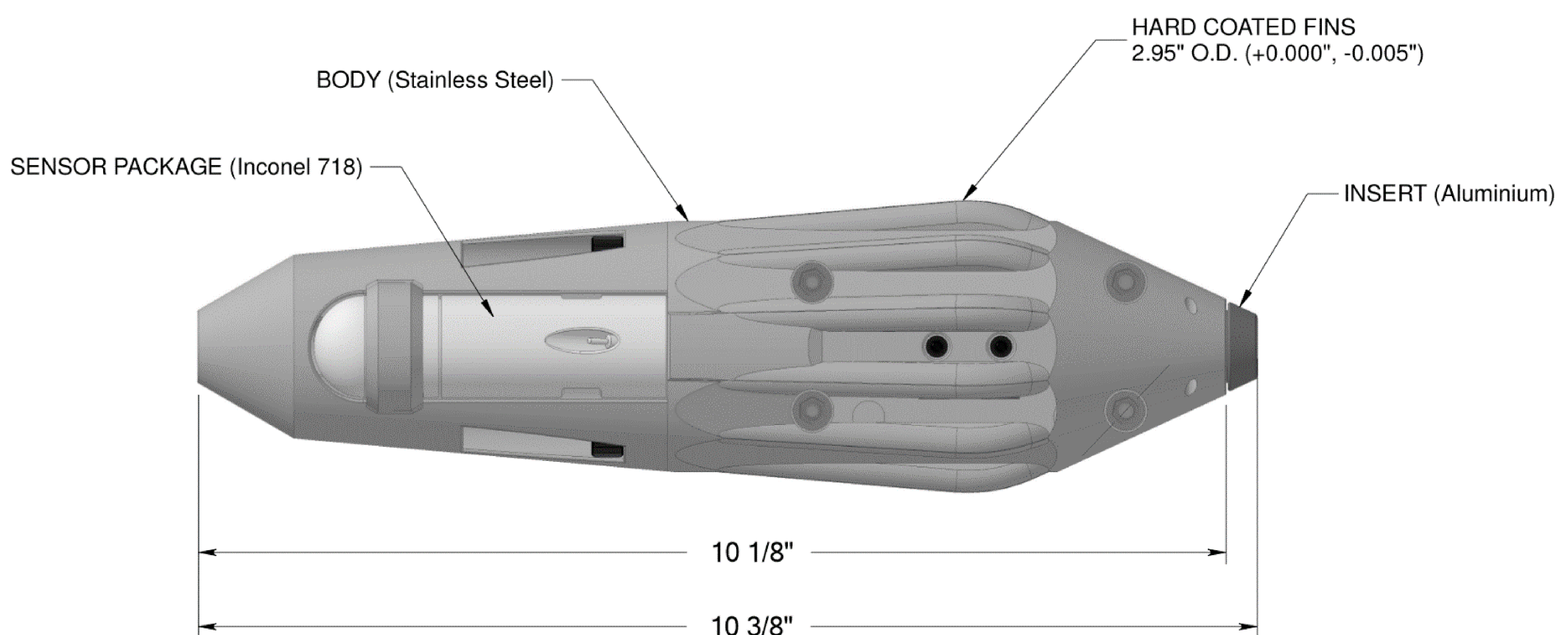


## WXSO

### INTRODUCTION

WXSO is the result of Gaia's ongoing R&D into wellbore and cable dynamics (drag, creep and torque) and future conveyance technologies. It can be considered a "black-box" for a logging run. The WXSO provides downhole recordings of borehole data and cable dynamics including pressure, temperature, deviation, rotation, cable movement, road noise and CCL.

- ✓ **Under 5 minutes rig time for installation and removal.**
- ✓ **6.4 days constant recording at high resolution.**
- ✓ **Continuous temperature and pressure log.**
- ✓ **Mud integrity log.**
- ✓ **Independent wireline jar firing and re-cocking record.**
- ✓ **Independent record of all sticking events.**
- ✓ **Cable creep analysis for optimising formation testing.**
- ✓ **Cable torque log for stranding risk analysis.**
- ✓ **Loss and influx zone identification.**
- ✓ **Wellbore transients during clean-up and sampling.**
- ✓ **Casing collar locator (CCL) log from magnetometer.**
- ✓ **Cased hole contact log for predicting wireline wear zones.**
- ✓ **For a more accurate interval mud weight, 2 WXSOs can be run simultaneously.**
- ✓ **Maximum temperature 150°C (302°F).**
- ✓ **Maximum pressure 20,000 psi.**





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### PRODUCTS AND DELIVERABLES

✓ **Depth based logs**

Depth-based log data including deviation, relative bearing and rotation, road noise, accelerometer readings, CCL, pressure and mud weight and temperature.

✓ **WXSO Report**

A comprehensive report on all the WXSO data acquired. Includes time and depth logs, station logs, temperature, mud weight, cable rotation and creep analysis, plus analysis of any sticking points encountered on the logging operation.

✓ **Temperature Analysis**

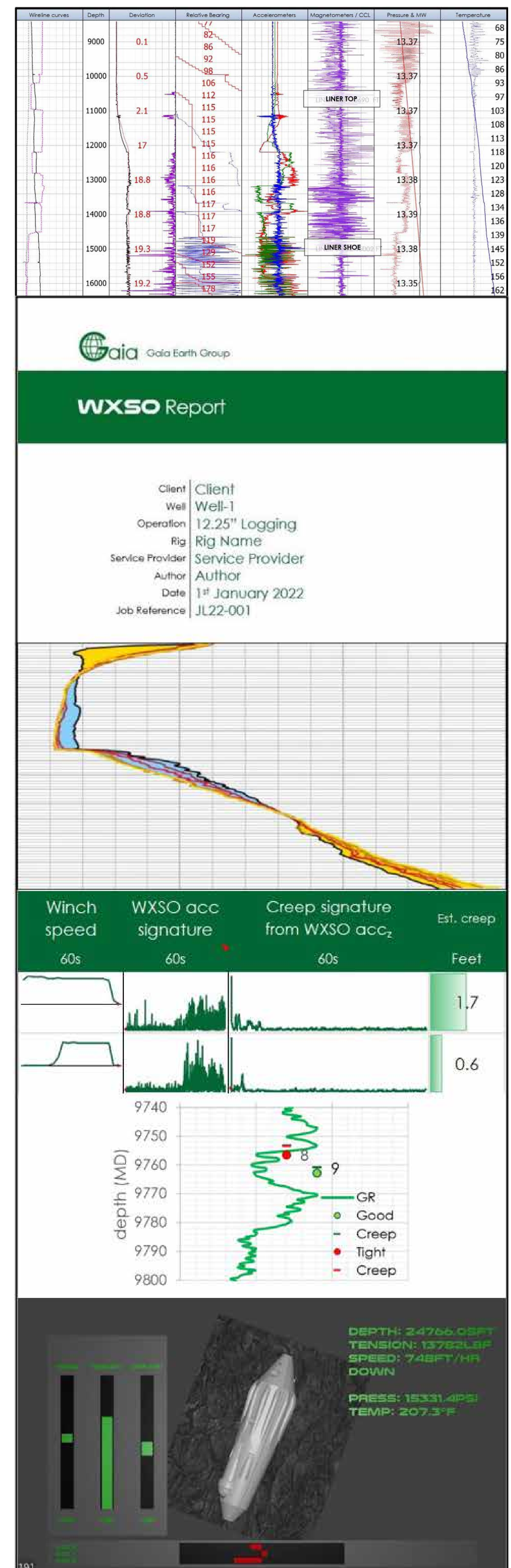
Analysis of data from the WXSO's continuous-reading external temperature sensor. This includes an extrapolated borehole temperature if multiple logs are run.

✓ **Cable Creep Analysis**

Analysis of cable creep for station logs using the WXSO accelerometer. Creep distance is calculated for each point, and planned and actual depths are plotted against the GR log. Actual depths can also be used to improve pressure gradients.

✓ **Event Visualisation**

Events can be played back as an animation to show cable spin, jar firing, cable creep, stuck tool situations and more.



WXSO clients include:



# Gaia Technologies

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