



SERVICE DATA SHEET

CASING INTEGRITY

Well integrity evaluation means getting the full picture of a well's barrier performance. It is about understanding the structural integrity of the tubing, casing and liners to ultimately manage risk, extend operating life and optimise the management of wells across their lifecycle.

ANSA are experts in casing integrity data analysis. For 30 years we have been delivering robust cased hole data analytics solutions to operators and service companies all over the world.

Our global network of experts process, analyse and interpret data acquired with mechanical, magnetic, acoustic and ultrasonic technologies to bring clarity and in-depth insights for our clients. We produce trusted intelligence that identifies issues early, reduces remediation costs, and mitigates potential future failures.

ANSA offers a portfolio of innovative analytics solutions for the assessment of casing and tubing integrity, including:

- Interior and exterior corrosion
- Pitting
- Parting
- Splits
- Casing/tubing deformation
- Downhole item condition, e.g. nipples, side pocket mandrels
- Holes
- Scale deposition
- Paraffin build-up
- Pre-patch/plug/whipstock setting condition
- Sliding sleeve position

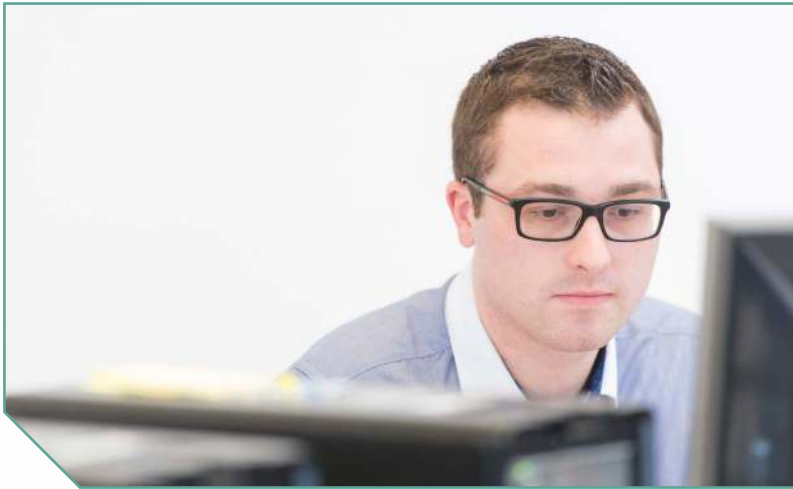
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APPLICATIONS

- Statistical analysis of individual tubing/casing joints
- Determination of plug/packer setting depths
- Investigation for damage to completion equipment such as nipples, side pocket mandrels
- Calculation of scale volumes
- 360° measurement for detailed 3D imagery of casings and completions
- Location of leaks and perforations
- Determination of sliding sleeve device (SSD) status
- Calculation of burst pipe pressure
- Confirmation of well access limitations
- Assessment of potential for future continued corrosion through monitoring and historical time-lapse analysis

BENEFITS

- Deeper understanding of extent of damage with 3D visualisation
- Predict future casing/tubing failures
- Reduced workover decision time and minimal lost production
- Rapid and highly accurate results with ANSA's Fast Turn Around (FTA) service
- Run with complementary services such as Leak Detection and Cement Evaluation to fully understand well integrity issues within your well



INDEPENDENT SERVICE

Our service is truly impartial.

We provide 100% unbiased data analysis and interpretation for all major service company cased hole data.

We can support your operations no matter which technology supplier or tool manufacturer is involved.

With ANSA, you get total transparency of your data.

QUALITY GUARANTEED

We have a solid track record in data analysis spanning three decades and our team of expert analysts have more than 150 years of combined experience.

So your data really is in safe and qualified hands.

All ANSA reports adhere to our stringent quality control process as part of our robust quality management system, guaranteeing excellence every time in the survey overview and objectives; data quality; processing and analysis steps; interpretation results; and field paperwork.

FLEXIBLE REPORTING

ANSA analysis products can be tailored to suit clients' individual requirements. We are happy to accommodate requests to deliver reports in a variety of file types, using specified software, and incorporating bespoke information.

FAST TURN AROUND (FTA)

Our FTA analysis is a valuable add-on that can be provided for all ANSA services to propel the progress of a project.

WE TYPICALLY DELIVER AN FTA IN A MATTER OF HOURS FROM RECEIPT OF DATA:

- Ultra-fast response, definitive results
- Actionable intelligence when clients need it
- Global on-call support 24/7, 365 days a year

We can tailor our fast response to your needs, and our experts are on hand to QC data as it is acquired, providing clients with preliminary findings in real time.

The ANSA FTA prioritises and delivers agreed objectives in an accelerated timeframe, enabling immediate decision making and action at the point of operation.