

Pulse IGNIS Specifications



Mechanical

Maximum temperature	32-500°F 0-260°C*
Maximum pressure	20,000 psi 137.90 MPa
H ₂ S resistance	Up to 30%
Outside diameter	2.36 in 60 mm
Housing material	Inconel
Tool length	126 in 3,210 mm
Tool weight	116 lb 53 kg
Recommended logging speed	6.6 – 19.7 ft/min 2 – 6 m/min
Logging mode	Memory and Real-time

Measurement

Measurement type	Wall thickness / metal loss
Barrier coverage	Up to 4 concentric tubulars
Max single barrier wall thickness	0.62 in 1.6 cm
Max dual barrier wall thickness	0.975 in 2.5 cm
Max triple barrier wall thickness	1.5 in 3.8 cm
Pipe OD range	3 1/2 - 13 3/8 in 8.9 - 34 cm
Accuracy range**	±3.5% to ±30%

*Indicative ranges and operating envelopes have been provided. Actual specifications and temperature rating depend on tool combination, product type and downhole time.
** Accuracy depends on barrier configuration, pipe size, wall thickness, material and completion geometry.

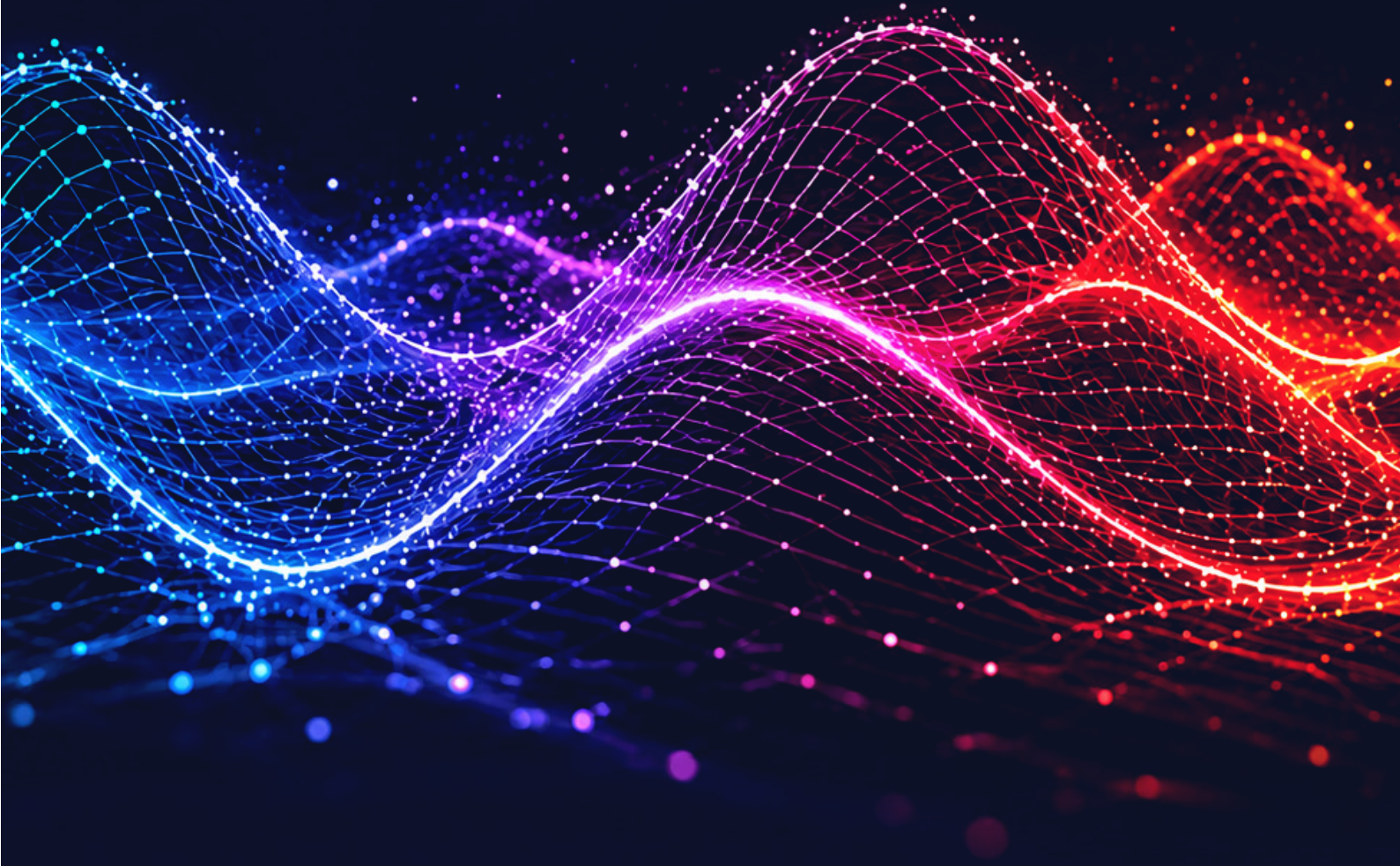


Pulse testing lab comprises various size tubing/casings with and without defects into which the Pulse tool is placed for rigorous testing.



Pulse IGNIS

Extreme temperature EM diagnostics for Integrity certainty in hot wells



Hotter wells. Multiple barriers.

Complete integrity confidence.

Pulse IGNIS delivers high-fidelity electromagnetic evidence in extreme-temperature wells, helping operators assess metal loss and barrier condition across concentric tubulars with confidence.

It extends proven Pulse multi-barrier diagnostics into hotter operating envelopes, preserving measurement fidelity and interpretation confidence.



Primary Tube Integrity



Multi-Barrier Integrity



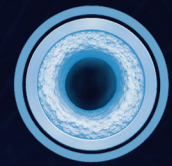
Barrier Integrity



Chrome Completions



Dual Completions



Scale / Wax Environments



Geothermal Well Integrity



P&A Support

High-Temperature insights across critical applications

Pulse IGNIS identifies where tubular metal has been lost, which barriers are affected, and how integrity risk is evolving. Supports primary tubing surveillance, casing/barrier integrity, corrosion assessment, geothermal wells and P&A decisions.

Critical for geothermal wells, Pulse IGNIS helps assess production and injection tubular integrity, corrosion risk and barrier condition where high temperatures challenge conventional diagnostics.

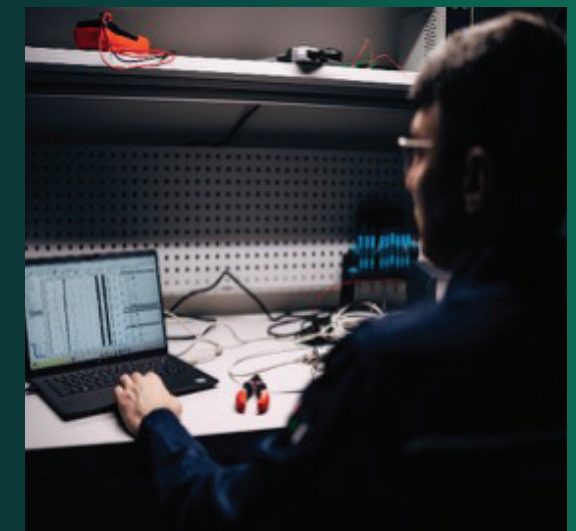
Engineered for heat.

Built on proven Pulse performance.



Built on TGT's Pulse electromagnetic sensing and modeling technology, engineered to preserve high-fidelity integrity evidence when temperature, pressure and complex completions limit conventional diagnostics.

Designed, engineered and manufactured in-house for reliable electromagnetic performance in harsh environments.



The challenge

Deep, hot and geothermal wells demand accurate tube integrity evidence across barriers, yet conventional diagnostics can be constrained by heat, complex completions, CRA materials and deposits.

What IGNIS enables

EM integrity diagnostics for wall thickness, metal loss and barrier-by-barrier integrity evaluation in extreme-temperature conditions.

The impact

- Detect tube weaknesses earlier
- Improve repair, P&A and barrier decisions
- Extend diagnostics into conditions where conventional tools may be limited

Result

Clearer electromagnetic Integrity evidence in extreme temperature wells. Confident decisions.