THOMAS LEDER

Forensic Infrastructure Expert | Geophysicist | Licensed Texas Master Plumber
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Languages: English, German (native), Spanish

PROFESSIONAL SUMMARY

Thomas Leder is a German-trained geophysicist and licensed Texas master plumber with more than twenty years of technical and field experience in the United States, Germany, and Mexico. He combines the hands-on expertise of a licensed master plumber with the scientific methodology of a European-trained geophysicist. He provides forensic consulting and expert witness services to plaintiff and defense counsel in cases involving plumbing system failures, pipe material failures, construction defects, subsurface utility damage, infrastructure failure analysis, and ground disturbance liability. His work covers piping material behavior and failure mechanisms (PEX, CPVC, copper, cast iron), installation quality, fuel gas and drainage systems, and code compliance.

AREAS OF EXPERTISE

Plumbing System Failure Analysis	Pipe Material Failure & Degradation	Plumbing Code Compliance (UPC/IPC, TSBPE)
Fuel Gas Piping Installation & Testing	Construction Defect Analysis	Scope & Cost Reasonableness Review
Subsurface Investigation	Ground Penetrating Radar & Magnetometry	Non-Destructive Testing (NDT)

PROFESSIONAL EXPERIENCE

Owner & Forensic Infrastructure Expert | Jupiter Forensics
- Forensic consulting and expert witness services for plaintiff and defense counsel
- Plumbing and pipe material failures, fuel gas and drainage installations, construction defect, and infrastructure failure analysis
- Case review, site inspection, technical reporting, deposition, and trial testimony

Owner & Licensed Master Plumber | Jupiter Plumbing LLC
- Commercial plumbing services including installation, inspection, and failure diagnosis
- Extensive field experience installing, inspecting, and diagnosing PEX, CPVC, copper, cast iron, and fuel gas piping systems in Texas
- Technical reporting for insurance and litigation professionals

Owner & Principal Geophysicist | Jupiter Geophysics (USA & Germany)
- High-resolution magnetometer surveys, GPR, and NDT for infrastructure and environmental projects
- UXO detection and clearance support; subsurface investigation for engineering firms and government contractors

Owner | Europa Remodeling
- Kitchen and bathroom remodeling and plumbing installation

Senior Geophysicist | ION Geophysical — Houston, Texas and Villahermosa, Mexico
- Seismic data processing and interpretation; technical leadership of multinational project teams

Geophysicist | TEEC — Hannover, Germany
- Seismic data processing and interpretation, including international project deployment to Mexico

Research Geophysicist | Leibniz Institute for Applied Geophysics (LIAG) — Hannover, Germany
- Applied geophysics research, field investigations, and subsurface characterization

EDUCATION

Diplom in Geophysics (equivalent to M.Sc.) | University of Bremen, Germany

Pre-diploma in Geophysics | TU Bergakademie Freiberg, Germany

LICENSES & CERTIFICATIONS

- Master Plumber — Texas State Board of Plumbing Examiners, License No. M-42808
- Master Plumber Certificate — Germany

ADDITIONAL CERTIFICATIONS

- Firefighter II — State Firefighters' and Fire Marshals' Association of Texas
- Emergency Medical Technician (EMT) — Specialist, National Registry of Emergency Medical Technicians

MILITARY SERVICE

- Medical Corps (combat medic), German Armed Forces — compulsory service

EXPERT WITNESS SERVICES

Available to plaintiff and defense counsel in Texas state and federal courts for:

- Plumbing and fuel gas system failures, defective installations, and building code violations
- Reasonableness and necessity of plumbing scope, methods, and charges
- Subsurface utility strikes and buried infrastructure damage
- Construction defect involving underground or structural components
- Infrastructure failure analysis and root cause determination