

WESSEL J. PENTZ

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PROFESSIONAL SUMMARY

Results-driven Geologist with two years of progressive field and technical experience across Sub-Saharan Africa and South America, spanning vanadium, copper, gold, lithium/coltan, and graphite exploration. Demonstrated capability to lead large-scale field programs and operate independently in remote, rugged environments while delivering high-level technical outputs including drill core logging, structural mapping, systematic soil sampling, and geological database management. Proven track record of managing complex field logistics, applying advanced in-field analytical technology, and producing rigorous technical reporting that directly informs strategic exploration decisions.

PROFESSIONAL EXPERIENCE

Minrom Consulting — Geologist

Cape Town, South Africa (Remote/Field)

January 2025 – Present

- Executing detailed logging of diamond drill core at an active vanadium mine site in South Africa to support ongoing mining operations and delineation of mineralization extensions.
- Conducted a remote reconnaissance site visit in Namibia (copper) to identify geological features, potential mineralization zones, and structural controls; measured dip and dip direction, performed geological mapping, and collected targeted samples for laboratory analysis.
- Authored a comprehensive technical report for the Namibia copper project, including geological maps, findings, and strategic recommendations to guide future exploration.
- Deployed for multiple multi-month field cycles in Uruguay (gold, 2025/2026), executing 4,700 meters of trenching and detailed trench logging under remote field conditions.
- Led field execution of a major soil sampling program across new gold anomaly targets in Uruguay, directly managing the systematic collection of 5,500 soil samples based on targets developed by senior leadership.
- Synthesized and reviewed comprehensive historical datasets — including trench logs, soil sample assays, structural readings, surface mapping, and geophysics — to successfully target and orient the final trenching program in Uruguay.
- Attained specialized training in detectORE™ technology, utilizing portable XRF (pXRF) for rapid, low-level gold detection and in-field analysis.
- Managed and imported complex geological, drilling, and survey data into specialized geological database software across projects in Uruguay and Zambia.
- Coordinated critical logistical operations for a month-long, 4,700-line-kilometer airborne Mobile MT geophysics survey via helicopter over pegmatitic terrain in the Democratic Republic of Congo (lithium/coltan), tracking flight durations, fuel consumption, and operational metrics to ensure strict project auditability.
- Served as on-site geologist for a six-month, 24-hour diamond drilling operation totaling 8,000 meters in a highly remote location in Uganda (graphite), responsible for logging oriented core and verifying accurate drill rig alignment.

CERTIFICATIONS

Handheld XRF Radiation Safety & Basic User Training

Portable Scientific Pty Ltd | March 2026

Basic CPR/AED & First Aid (Adults)

ETUM (Educación en Urgencias Médicas) / National Resuscitation Council, Uruguay | December 2025

EDUCATION

BSc Honours in Environmental Sciences (Environmental Geology)

North-West University | 2024

BSc in Environmental Sciences (Geology and Geography)

North-West University | 2021 – 2023