

Louise Fritz

Freelance Petroleum Geologist

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PROFESSIONAL SUMMARY

Accomplished petroleum geologist with over 20 years of international experience spanning exploration, appraisal, and field development across West Africa, the North Sea, and the Gulf of Mexico. Specialist in integrated subsurface interpretation, basin modelling, and prospect generation. Proven track record of delivering high-impact results as an independent consultant for major operators and national oil companies. Bilingual in English and French; adept at leading cross-functional teams in multicultural environments.

PROFESSIONAL EXPERIENCE

Independent Petroleum Geology Consultant

2015 – Present

Self-Employed · Charlotte, NC, USA / International

- Provide specialist subsurface consultancy to independent E&P; companies, NOCs, and private equity-backed ventures across five continents.
- Lead geological interpretation workflows including seismic mapping, well-log correlation, facies modelling, and volumetric estimation (P10/P50/P90).
- Conduct prospect and lead maturation studies; authored multiple CPR-compliant resource reports conforming to SPE-PRMS standards.
- Advise on exploration strategy and portfolio optimisation; delivered field development concepts for two greenfield discoveries offshore Mauritania.
- Mentored junior geoscientists embedded in client teams; facilitated technical workshops on clastic and carbonate reservoir characterisation.

Senior Petroleum Geologist

2008 – 2015

Total Energies SE · Paris, France / Libreville, Gabon

- Managed exploration and appraisal programmes in the Gabon Coastal Basin; responsible for 12 exploration wells and four appraisal campaigns.
- Integrated 3-D seismic interpretation, well data, and basin modelling results to update play fairway maps and risked resource estimates.
- Collaborated with reservoir engineers and petrophysicists on static modelling and field development planning for the Anguille Marine field.
- Prepared asset-level investment proposals for senior management and presentation to the Gabon government (Directorate General of Hydrocarbons).
- Represented TotalEnergies at joint venture technical committees with Shell and Addax Petroleum.

Petroleum Geologist

2003 – 2008

Schlumberger (SLB) – Consulting Services · Aberdeen, United Kingdom

- Delivered integrated subsurface studies for North Sea operators (BP, ENI, Fairfield Energy) covering UKCS Blocks 15, 22, and 30.
- Performed AVO and DHI analysis on pre-stack depth-migrated datasets to de-risk Jurassic sandstone targets.
- Compiled and QC'd well composite logs; constructed regional stratigraphic frameworks across the Central Graben.
- Supported real-time drilling operations as an embedded wellsite geologist on two HPHT appraisal wells.

Junior Geologist

2001 – 2003

Institut Français du Pétrole et des Énergies Nouvelles (IFPEN) · Rueil-Malmaison, France

- Contributed to research programme on deep-water turbidite reservoir prediction in the South Atlantic margin.
- Processed and interpreted 2-D seismic lines; compiled petrographic thin-section analyses from analogue outcrops.
- Co-authored one peer-reviewed paper on sequence stratigraphic controls on reservoir quality.

EDUCATION

MSc Petroleum Geoscience (Distinction)

1999 – 2001

Heriot-Watt University · Edinburgh, United Kingdom

Thesis: Sequence stratigraphy and reservoir architecture of Palaeocene deep-water fans, North Sea.

Diplôme d'Ingénieur Géologue (MEng Geology)

1994 – 1999

École Nationale Supérieure de Géologie (ENSG) – Université de Lorraine · Nancy, France

Five-year integrated engineering geology programme accredited by the Commission des Titres d'Ingénieur (CTI). Majored in Petroleum Geology and Geophysics. Final-year project in partnership with TotalFina (now TotalEnergies).

TECHNICAL SKILLS

Seismic Interpretation:	Petrel, Kingdom Suite, OpendTect, IHS Kingdom
Basin Modelling:	PetroMod, Temis 3D
Well Log Analysis:	Interactive Petrophysics (IP), Techlog
Mapping & GIS:	ArcGIS, ESRI, MapInfo
Resource Estimation:	Monte Carlo volumetrics, SPE-PRMS / SEC reporting
Programming:	Python (pandas, matplotlib, lasio), MATLAB
Languages:	English (native), French (bilingual), Spanish (professional working proficiency)

PROFESSIONAL AFFILIATIONS & CERTIFICATIONS

- Member – American Association of Petroleum Geologists (AAPG)
- Member – Society of Exploration Geophysicists (SEG)
- Member – European Association of Geoscientists & Engineers (EAGE)
- Certified Petroleum Geologist (CPG) – AAPG, No. 12847
- Chartered Geologist (CGeol) – Geological Society of London

SELECTED PUBLICATIONS & PRESENTATIONS

- Fritz, L. & Morel, P. (2003). Turbidite reservoir prediction from seismic facies analysis, South Atlantic margin. *Marine and Petroleum Geology*, 20(4), 381–395.
- Fritz, L. (2012). Play fairway analysis in the Gabon Coastal Basin: integrating seismic, well, and geochemical data. *AAPG Annual Convention*, Long Beach, CA.
- Fritz, L. (2019). De-risking deep-water prospects offshore West Africa using pre-stack seismic attributes. *EAGE Annual Conference & Exhibition*, London, UK.