

DR. MAURO ALESSANDRONI
Geologist, Expert in geological and environmental characterization

PROFILE SUMMARY

Geologist experienced in integrating data of different source (core, outcrop, geophysics, log, hydrogeology) for geological, hydrogeological and environmental characterization studies. Skilled in geological and fracture modeling, field work, design of monitoring wells, data acquisition planning, sampling of environmental matrices, analysis and interpretation of cores, hydrogeological & geophysical data, environmental characterization & remediation. Good knowledge of Italian environmental legislation and ISPRA guidelines. Experience in various geological settings.

Ability to positively interact with peers having different professional background. Ability to collaborate with third parties on studies. Able to deliver maps, presentations & reports to peers, management, administrative bodies, government representatives. Experience in project management, managing relationships with clients, commercial promotion of the company, experience in industry and national agencies. Strong interpersonal skills, highly committed, able to make decisions, objective.

KEY QUALIFICATIONS

- Geological characterization
- Geological modeling
- Fracture modeling
- GIS
- Soil & water sampling
- Core description
- Hydrogeological characterization
- Environmental characterization
- Volumetric assessment
- Well, logging, coring planning
- Fluid-flow modeling
- International experience
- Good presentation skills
- Good reporting skills
- Third parties' work overview
- Environmental legislation
- Experience in industry
- Fluent in English & French

WORK EXPERIENCE

Environmental geologist at ARPAM (Agenzia Regionale Protezione Ambientale delle Marche) in the **Remediation of Contaminated Sites team** 10/2021 to date

Overview of site characterization and remediation plans, field work supervision during drilling of soil borings, installation of monitoring wells and samples collection, direct data collection (soil, water), geological and hydrogeological site characterization, GIS database creation.

Geologist - Freelance Consultant 01/2018 to 07/2020

Provides expertise in geological modeling, fracture modeling, structural geology, field development

Reservoir Geologist at Addax Petroleum (Geneva-Switzerland) 09/2014 to 12/2017

In charge of all geological aspects of the Taq-Taq oilfield in the Iraqi Kurdistan: structural interpretation and mapping, geological and fractures (DFN) modeling, volumetric assessment, wells, logging & coring planning (vertical, horizontal, sidetracks), well proposals writing, completion design, drilling operations support, review and validation of third-party work, Field Development Plan reporting. Geologist in New Ventures projects.

Reservoir & Structural Geologist at Beicip-Franlab (Paris-France) 09/2008 to 08/2014

Consultant involved in project management, technical work, commercial promotion, managing business relationships with clients, mentoring in natural fractures modeling. Completed the following projects and tasks:

- Mangrullo field* (Petrobras) Argentina; tight gas sandstone modelling and simulation: Project leader.
- Khost field* (MPCL) Pakistan; tight carbonate integrated reservoir study: Project leader.
- Greater Burgan field*, Kuwait (KOC); structural and fracture modelling in Maaddud and Marrat carbonate reservoir and 2D full field restoration. Coaching young Kuwaiti geologists in fracture modelling.
- Magwa field*, Kuwait (KOC), geological and fracture modelling of Marrat carbonate reservoir

- *Toual field* (Sonatrach) Algeria; geological and fracture modelling - Ordovician Quarzites.
- *Bastora and Benenan fields* (DNO), Iraqi Kurdistan; fracture modelling in different carbonate reservoirs.
- *Yurubcheno oilfield*, Russia (Rosneft); fracture modelling. Detached in Tomsk and Moscow.
- *Timan-Pechora basin*, Russia (Lukoil); fracture modelling. Detached in Arkhangelsk and Ukhta.
- *Mississippi Lime play* (Repsol) USA; structural study for tight oil development. Detached in Houston.
- *Saleski field* (Laricina) Canada; fracture modelling of Grosmont fm (heavy oil). Detached in Calgary.
- *B-NC186 field*, Libya (Akakus Oil); Ordovician sandstone fracture modelling. Detached in Tripoli.
- *Zarat field* (PA Resources) Tunisia; fracture modelling of El Gueria reservoir. Detached in Tunis.
- *La Yesera field*, Argentina (Chevron); fracture characterization in Pre-Cuyo volcanic reservoir.
- *Melut basin*, Sudan (PDOG); cross-section restoration and study of tectonic evolution of basin.
- *Muglad Basin*, Sudan (GNPOC); natural fracture evaluation from cores for shale oil development.
- *Paris basin*, France (Hess); natural fractures analysis from cores in carbonate reservoirs.

Provides software & professional trainings as fractured reservoir expert to different operators worldwide: ConocoPhillips (Indonesia), ONGC (India), KOC (Kuwait), PDVSA (Venezuela), Tatneft, Rosneft, (Russia), Petrobras (Argentina). Provides professional trainings as fractured reservoir expert at IFP Training (France).

ATTENDED TRAININGS

QGIS basic and advanced training (11/2021-ISPRA), Technical-administrative managing of contaminated sites (12/2021-SAFA), News on environmental remediation (10/2021-GEAM) Geostatistics, Geomodeling, Project management (BeicipFranlab) Management (Moortgat) Petrophysical Interpretation, Prospect Evaluation, Introduction to Reservoir Engineering, Seismic Interpretation, Geomodeling, Electrofacies analysis and Rock-Typing (IFP Training).

EDUCATION

Doctorate in Earth Sciences, University of Camerino, Italy 07/2008
 Thesis: "Structural control on the flow and accumulation of hydrocarbons in carbonate grainstones: an example from the Bolognano Fm. (Maiella, Italy)" Advisor: Prof. Emanuele Tondi
Degree in Geology (5 years), University of Camerino, Italy 06/2004

SKILLS

- Languages: Italian (mother tongue) English, French (fluent), Spanish (average).
- Software: QGIS, Surfer, Microsoft Office, WellCAD, Petrel, FracaFlow, GeoX, REP, Kingdom

PUBLICATIONS

- DE JOUSSINEAU G., BARRETT K.R., **ALESSANDRONI M.**, LE MAUX T. (2016). Organization, flow impact and modeling of natural fracture networks in a karstified carbonate bitumen reservoir: an example in the Grosmont Formation of the Athabasca Saleski leases, Alberta, Canada. *Bulletin of Canadian Petroleum Geology*, 64, n.2, pp. 291-308
- JADI M., KUMAR P., KUMAR P., ROBERT J., **ALESSANDRONI M.**, ET ALII. (2015). Integration of Reservoir Performance and Geoscience Studies in the History Match of a Complex Carbonate Reservoir – a Case Study from the Magwa Marrat Reservoir – Kuwait. *SPE Conference Paper 172594-MS*
- ALZANKHAWI O., AL-HOUTI R., MA E., ALI F., **ALESSANDRONI M.**, ALVIS M. (2014). Maaddud Fractured Reservoir Analysis, Greater Burgan field: Integrated Fracture Characterization using Static and Dynamic Data. *IPTC paper 17471-MS*.
- AGOSTA F., **ALESSANDRONI M.**, ANTONELLINI M., GIORGIONI M., TONDI E. (2010). From fractures to flow, a field-based quantitative analysis of an outcropping carbonate reservoir. *Tectonophysics*, 490 (2010) 197–213.
- AGOSTA F., **ALESSANDRONI M.**, TONDI E., AYDIN A. (2009). Oblique normal faulting along the northern edge of the Majella anticline, Central Italy: inferences on hydrocarbon migration and accumulation. *Journ. Structural Geology*, 31, 7, 674-690.