



Paolo Martini – Consultant Petroleum Geologist – Geopaso Sarl

Profile/Summary

- Senior petroleum geologist with 30 years of experience, including Exploration, Appraisal and Development project administration
- Managed diverse and multicultural teams working on a variety of subsurface projects.

Key Strengths

- Wellsite & Operations Geology, Petrophysics, Reservoir & Development Geology expertise
- Business Development, Prospects and Reserves evaluation, License administration, Service company supervision, Project cost control.

Career Highlights:

- Sound Energy entered Morocco to appraise the Tendrara gas discovery. Hired as Petroleum Operations Manager. Drilled, hydraulically stimulated and tested one vertical and one horizontal well, proved commerciality, prepared FDP, managed third party Recoverable Resources Certification and obtained Production Concession. Drilled three further exploration wells.
- Northern Petroleum was present in Italy and sought expansion of exploration portfolio. Hired as Principal Geologist. Fully exploited Italian legislation allowing a rebate on seismic survey acquisition worth over £2.5M; obtained new permits, permits suspensions and extensions through a significant effort in the relationships with the Economic Development Ministry by preparing and presenting a large number of technical documents and justifications. Built tight gas fields 3D models for The Netherlands' portfolio, highlighting the need for a substantial reserves' revision, managed wellsite operations in Italy and UK.
- KPO Karachaganak JV was preparing Phase II of this giant oil field redevelopment. Hired as Reservoir Geologist. Organized and verified 250+ wells database, built 3D facies model to allow REs running multiple production scenarios, designed appraisal and development wells.
- LTE Lasmo, after ENI's takeover, needed to replace a very experienced petrophysicist. Hired as Senior Petrophysicist. Successfully handled petrophysical analyses for the whole business (from 5 continents); built facies model for offshore condensate field Bayu-Undan and succeeded in having petrophysical interpretation and facies model accepted and adopted as part of the unitization process.

Career History/Work Experience

06/2019 – Present	<u>Consultant Petroleum Geologist</u>	Geopaso Sarl	Morocco	Supported Sound Energy during divestment period, trained two PhD students on Petroleum Operations field, lab and office activities. Worked with Enxon Technology on a bid to redevelop ONHYM's Meskala gas field. Collaborated with GePlan for petrophysical interpretation project proposals.
12/2015 – 05/2019	<u>Petroleum Operations Manager</u>	Sound Energy	Morocco	Managed the subsurface activities of the Tendrara tight gas field through appraisal and development phases, completed FDP, obtained Production Concession, steered Recoverable Resources Certification; managed Exploration campaign operations. Assisted the NBD Team seeking new country entry.
03/2016	<u>Technical Instructor</u>	Serintel	Myanmar	Held 5 dd "Reservoir Geology" training for Myanmar State petroleum geologists on behalf of ENI.
04/2015 – 08/2015	<u>Technical Director Geoscience</u>	Kuwait Energy	Kuwait	Led a team of Geoscientists working on S Iraq FDPs, exploration activities in the MENA Region; helped regional offices with Quality Assurance of geological/petrophysical technical activities.

09/2012 – 01/2015	<u>Geologist/Petrophysicist</u>	Geomarpa Consulting Ltd	UK
Independent petrophysicist/geologist for oil & gas exploration and production: Northern Petroleum, Ouro Preto Resources, Apennine Energy, Italmin Exploration, La Societe' Global Petroleum.			
02/2008 – 08/2012	<u>Principal Geologist/Petrophysicist</u>	Northern Petroleum Plc	UK
Contributed to operational success in Italy, Netherlands & UK with petrophysical interpretation, NBD, acreage applications, presentations to authorities; reservoir modeling for developed assets and exploration prospects; well planning and data acquisition programs, wellsite & operations geology, mentoring of younger geologists.			
06/1990 – 02/2008	<u>Various roles</u>	ENI	
<p>2005-2008 - <i>Reservoir Geologist</i> at KPDL Karachaganak JV – UK: Built 3D model of a super-giant oil and gas field based on Facies data from core, cuttings and image logs from a large well database; captured structural, stratigraphic, petrophysical and dynamic uncertainties; successfully upscaled the model for development wells planning & optimization.</p> <p>2001 – 2005 - <i>Senior Petrophysicist</i> at ENI/Lasmo – UK: Petrophysical interpretation, facies characterization and 3D properties distribution – Bayu Undan, Australia, Kadanwari & Sawan, Pakistan; Nigeria – Obiafu-Obrikom & Ebocha-Mbede reservoir studies, petrophysics, facies characterization and 3D model; regional and field studies, business development screening and data rooms, training of junior staff.</p> <p>1997 – 2001 - <i>Petrophysicist</i> at Agip Division - Italy: Open hole and cased hole reservoir characterisation, including single well analyses and field studies for 100% operated and JV assets, as well as for potential acquisitions and NBD; participated to the IFP research project on Chlorite effects in clastic reservoir; training of new and less experienced staff.</p> <p>1995 – 1997 - <i>Geology Operations SPV</i> at CABGOC – Cabinda, Angola</p> <p>1993 – 1995 - <i>Geology Operations SPV, Operations & Wellsite Geologist</i> at Agip – Italy</p> <p>1992 – 1993 – <i>Wellsite Geologist</i> at Agip UK – UK North Sea</p> <p>1991 – 1992 – <i>Wellsite Geologist</i> at Agip Malaysia – Offshore Malaysia</p> <p>1990 – 1991 – <i>Trainee Wellsite Geologist</i> at Agip – Onshore & Offshore Italy</p>			
01/1989 – 06/1990	<u>Geologist</u>	SGI, Studio Geotecnico Italiano	Italy

Education

1982 – 1988	Milan State University	Italy
BSc in Geology with full marks		
Petroleum Geology dissertation: Relationships between texture and composition of carbonate rocks and their thermal conductivity		

Specific skills developed:

- Multicultural team leadership in demanding environments with tight and ambitious targets
- Reservoir characterisation and Petrophysics: extensive worldwide basin experience in clastics and carbonates, complex lithology, low resistivity pay, tight gas reservoirs, fractured carbonates
- Reservoir Modelling: facies models in clastic and carbonate fields based on log, core and geophysical data integration in Australia (Bayu/Undan field), Nigeria, Kazakhstan (Karachaganak field), Netherlands (Geesbrug & Papekop fields), Italy (Giove discovery), 3D model building in clastic and carbonate fields in Netherlands (Geesbrug & Papekop fields), Italy (Giove discovery) and UK (Markwells Wood)
- Well trajectory design: vertical, deviated and horizontal wells onshore Morocco, Kazakhstan, Italy, UK
- Pressure tests interpretation: RFT and MDT data QC and interpretation, uncertainty evaluation, fluid gradients and contacts determination
- Supervision of geological operations in vertical, deviated and horizontal wells, well prognosis and well data acquisition programs: onshore and offshore Italy, offshore Malaysia, North Sea and Cabinda, onshore Morocco, Netherlands, UK, Kazakhstan and Canada

Training

- ENI: Wellsite Geology Operations, Log interpretation, Porous media Petrophysics, Well testing, Cased hole and PLT interpretation, Gas While Drilling
- EAGE: Seismic Amplitude interpretation
- Imperial College: SCAL QC and interpretation, Reservoir Performance
- Chevron: Mapping
- Tigress: Cluster Analysis
- Paradigm: Introduction to 3D Reservoir Grid Building and Reservoir Properties
- Schlumberger: Petrel introduction and property modeling, Petrel 2012 grid building and property modeling
- Nautilus: Introduction to Reservoir Engineering, Critical Guide to Reservoir Appraisal and Development, Geophysics for Subsurface Professionals, Petroleum Economics & Risk Analysis, Carbonate Field Trip to Southern Apennines, Italy
- Roxar: 3D Reservoir Modeling, Reservoir Engineering & Well Planning
- LPS: Fluids in the Reservoir, Shale gas & Shale Oil
- PESGB: North Africa and Eastern Mediterranean Petroleum Geology
- Stanford University: Reservoir Geomechanics (online)
- IHRDC: Petroleum Geomechanics (online)

Computer skills

Petrophysical Interpretation – Various software such as Powerlog, IP, Geoquest Elan, Techlog
Geomodelling – RMS, Petrel, Gocad
Microsoft Office

Affiliations

SGI - Italian Geological Society

Foreign languages

Mother tongue Italian, bilingual English, working proficiency French & basic Spanish
English level tested in October 2019 by Trinity School (Rome, Italy) as part of Serintel's bid to obtain a Geology & Geophysics Training Contract

Publications:

O.Schenk, C.Caldarelli, A.Riva, O.Shtukert, E.Battara, M.Marian, M.Robinson, P.Martini, C.Silenziaro, 2015; "**Hydrocarbon prospectivity offshore Southern Sicily: new basin and petroleum system modeling results**", abstract accepted by the AAPG, to be presented in the AAPG European Regional Conference & Exhibition, 18-19 May 2015, Lisbon

R.Calabrò, P.Martini, A.Pica, G.Rigo, P.Shiner, P.Vecchia, 2014 "**The Hydrocarbon Geology Group. A New Group within the Geological Society of Italy**", Geoscienze, 87th Congress of the Geological Society of Italy, 10 September 2014, Rome

C.Caldarelli, P.Martini, D.Smith, 2013; "**Source rock potential and maturity modelling in the Southern Adriatic Sea area: key controls for predicting hydrocarbon distribution**", Search and Discovery article, presented at the AAPG European Regional Conference & Exhibition in Barcelona, 8-10 April 2013