



## **CURRICULUM VITAE**

**Name :** Damian Victor Ferreira

Present Occupation: Sr. Geophysicist

### **Summary of skills**

- ✚ Play based exploration and Regional framework studies
- ✚ 2D/ 3D seismic interpretation and geological mapping
- ✚ Structural interpretation and reconstruction of rift basins
- ✚ Seismic interpretation of clastic reservoirs
- ✚ Seismic sequence stratigraphy
- ✚ Prospect maturation workflows (including volumes and risking)
- ✚ Reservoir geomechanics and wellbore stability
- ✚ Operations geology
- ✚ Technical report writing and presentations

### **CAREER HISTORY**

**Structural Geologist**  
**Private consultancy**

**March 2015 – Present**

- Geological mapping using well data, subsurface 3D modeling of faults, stratigraphic horizons; structural evaluation.

**Geologist**  
**Oman Oil, Oman**

**July 2014 – September 2014**

Block 60 (*Fahud Salt Basin, Oman*) - Development drilling in the Abu Butabul tight gas & condensate field.

**Structural Geologist**  
**Private consultancy**

**January 2014 – June 2014**

- Geological mapping using well data, subsurface 3D modeling of faults, stratigraphic horizons; structural evaluation.

**Sr. Geophysicist**  
**Mubadala Petroleum, Thailand**

**April 2011 – December 2013**

Regional & prospect scale evaluation of large offshore areas eg. Southern gulf of Thailand, with an emphasis on North Pattani basin (*Jasmine oil Field*), Karawake basin (*adjacent to the giant Erawan gas Field*), South Pattani basin (*Wassana & Nong Yao oil Fields*), North Malay basin (*adjacent to the Bongkot gas Field*) and Narathiwat sub basin (*adjacent to North Samudra gas Field*).

### **Responsibilities**

- Identification and mapping of leads and prospects for appraisal drilling using a variety of geological data including well logs, core, 2D and 3D seismic data.

- Provide inputs for regional evaluation, petroleum systems modelling and reservoir characterisation to de-risk appraisal drilling opportunities.
- Quantification of play & prospect risks, resources (in place & recoverable) and assessment of economic viability.
- Propose optimal well locations and contribute to the well planning processes using a variety of geological and geophysical data to enhance and facilitate maximum recovery.

#### Key Achievements

- Identification of additional structural and structural-stratigraphic leads using 2D and 3D seismic data in the North and South Pattani basins for future exploration/ appraisal drilling and reserves replacement of the nearby Jasmine & Banyen fields.
- Generation of regional maps using legacy, regional 2D seismic and 3D seismic data for petroleum systems modelling and new play identification, over a large area covering the South Pattani basin, North Malay basin and the Narathiwat sub basin.
- A regional structural review of the southern gulf of Thailand basins using regional depth maps and geo-seismic cross sections generated from available seismic and published data to illustrate the key structural elements and the interplay between structural deformation and reservoir and source rock facies distribution in the southern Gulf of Thailand basins.
- Integration of seismic attributes and rock physics for reservoir characterisation, generation of GDE models and CRS maps.
- Quantitative fault seal study in the South Pattani basin using well log, seismic and palynology data, demonstrating the presence and effectiveness of lateral fault seal and top seal in the area.
- Illustration and presentation of the findings of regional studies, play concepts, appraisal drilling opportunities, etc to peer reviews teams and joint venture partners pursuant to development drilling.
- Drafting of well approval documents (WAD's), well prognosis, etc for senior management, highlighting justifications for proposed exploration wells.
- Drafting of comprehensive block obligation reports for partners and Government at the end of the license obligation periods.

#### **Operations Geologist Geopetrol International, India**

**May 2009 – September 2009**

Block AA-OON-2003\_2 (*Assam Basin, India*) - 3 well onshore Exploration drilling project in a Mesozoic foreland fold and thrust belt setting.

#### Key Achievements

- Timely preparation of Pre-Drill Reports for Government and partners.
- Reconnaissance field work over the block including field mapping and the generation of geo-seismic cross sections to evaluate existing structural models.

#### **Operations Geologist (sublet by Pearl Energy) GFI – SOCO Exploration, Thailand**

**December 2007 – February 2008**

Bualuang Field (*Western Basin, Thailand*) - Development drilling project in shallow water Tertiary rift basins.

#### Key Achievements

- Hands on geological study of legacy drill cuttings for reservoir characterisation.
- Interpretation of core data and generation of detailed core log sections for facies characterisation.

#### **Wellsite Geologist Pearl Energy, Thailand**

**January 2007 – June 2008**

Development drilling (*Jasmine oil Field, North Pattani Basin, Thailand*) and near field Exploration drilling (*present day Ban Yen oil Field, North Pattani Basin*) in shallow water Tertiary rift basins.

### Key Achievements

- Extensive experience of wireline operations, quick look interpretation of memory logs to decide on MDT pressure points and the generation of post logging reports of net pay based on field petrophysical analysis.
- Landing and steering horizontal wells using conventional LWD in moderate - good quality reservoirs to achieve optimum production.
- Drafting and finalising of 50+ final well reports and Composite logs along with other key deliverables for internal library, partners and government.

### **Pore Pressure Specialist International Logging Overseas**

**January 2004 – December 2006  
India, Thailand, Vietnam**

### Key Achievements

- Working as part of an integrated team to log and monitor various Operational, Geological, Drilling and Mud Engineering aspects, for the safe and successful completion of 150+ wells at various locations offshore and onshore.
- Early identification of abnormal pressure zones and potential drilling problems based on the interpretation of geological data and real time drilling data.
- Training and mentoring of local and foreign crews at various locations in India, Thailand and Vietnam.

### **TRAINING / CERTIFICATES**

Petrosys (Mapping Software)

PE 01 Pore Pressure Engineering (conducted by International Logging Inc, India)

Wellsite Geology School (conducted by International Logging Inc, Malaysia)

Computer Science 101 - Stanford University

### **TECHNICAL EXPERIENCE**

- SMT Kingdom Suite
- Petrosys
- MMRA – Rose & Associates
- Arc GIS
- Petrel
- IKON Science Rok Doc
- Corel Draw

### **PERSONAL DETAILS**

Date of Birth : 22<sup>nd</sup> February 1980

Nationality : Indian

Education : **PG Cert.** Applied Reservoir Geomechanics (NA), California, USA  
(Stanford University - March 2015)

**M.Sc.** Structural Geology with Geophysics, Leeds, UK  
(University of Leeds - September 2010)

**M.Sc.** (Geology) from St. Xavier's College, Mumbai, India  
(University of Mumbai - April 2003)

**B.Sc.** (Geology) from St. Xavier's College, Mumbai, India  
(University of Mumbai - May 2001)

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# Damian Ferreira

## Geochronology

