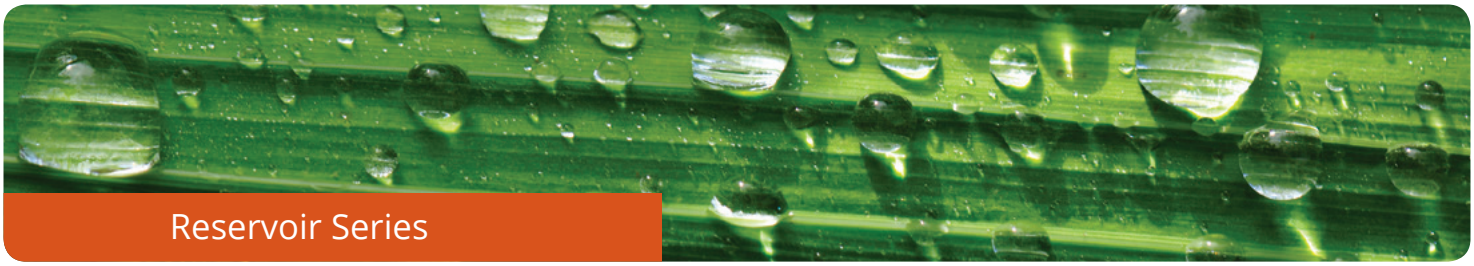


Reservoir Series

Applied Production Geology

Designed for:
The course is aimed at petroleum engineers early in their industry careers who require a firm grounding in the technical fundamentals of production geoscience as they apply to operations.

Duration
(days)

1 2 3 4 5

Learning Level:

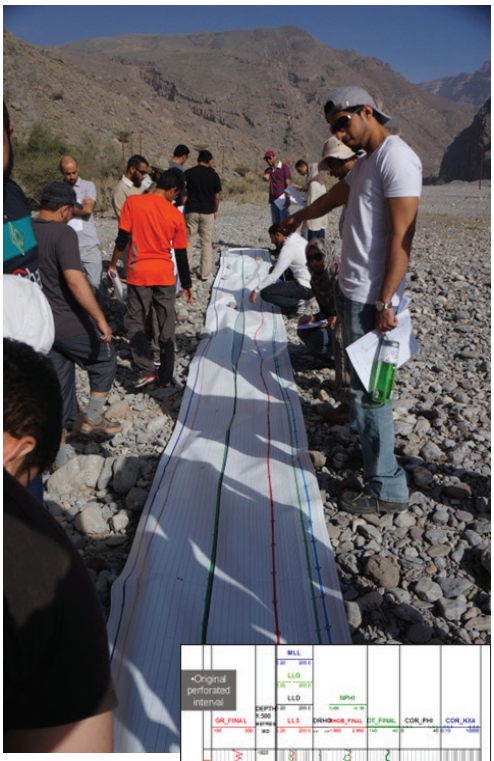
Skills
Knowledge
Awareness

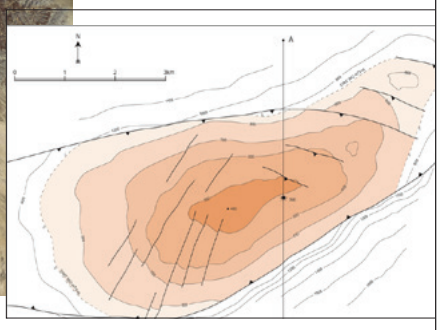
This course has been built specifically for the Middle East and uses field data from Natih and Gharif reservoirs, mapped on to analogue outcrops around Nizwa and core material at Muscat.

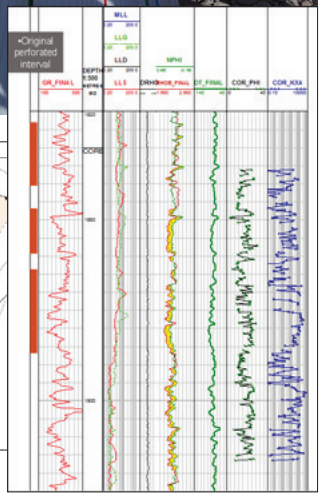
The course illustrates the linkage between geological interpretations and the petroleum engineering end-products they feed into. The standard production geological tasks of mapping, reservoir characterisation (both matrix and fractures), correlation, log interpretation, hydrocarbon distribution and volumetrics are combined with an analysis of risk and uncertainty. Running the event partly 'Open Air™' allows the crucial aspect of scale to be incorporated.

The course makes use of the 'Madmar Field' case study as a red thread. Madmar is a synthetic oil and gas field case scaled to the outcrops near Nizwa and populated with data from Natih and Gharif producing reservoirs.

The objective is for petroleum engineers who have had basic training in geoscience to take that knowledge out in to the field, consolidate what they know and build on it. Attendees should come out of the event with a clear view of the component parts of production geoscience work, and first-hand experience of how geoscience work impacts on the other petroleum engineering disciplines.

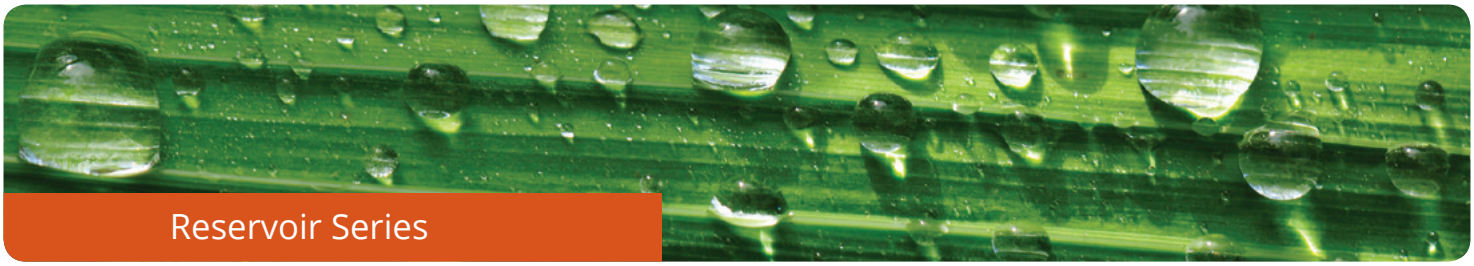






Early Development
E&P Overview
Reservoir
Wells
Business & Risk
Open Air
Coaching
Master Class

TRACS

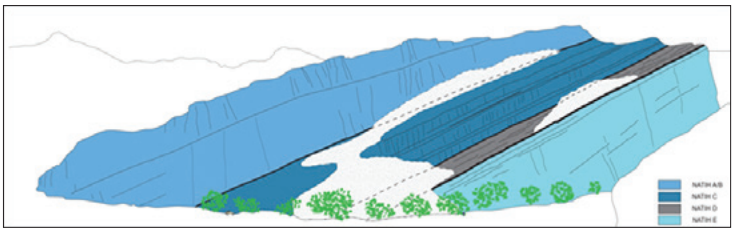


Reservoir Series

Applied Production Geology continued

Course Content:

- Carbonate reservoir characterisation
- Clastic reservoir characterisation
- Framework mapping
- Reservoir heterogeneity
- Interpreting core
- Interpreting logs
- Rock properties, data and scale
- Properties of fracture systems
- Understanding saturation-height
- Volumetrics
- Handling uncertainty
- Production geoscience deliverables



Logisitics

Golden Tulip Hotel, Nizwa (3 days) and Intercontinental Hotel, Muscat (2 days)

Course Duration:

Duration is 5 days.

Courses available from this series:

Basic Geoscience
Introduction to Geophysics
Geological Application of Well Logs
Openhole Petrophysical Interpretation
Core Description
Production Geology
Applied Production Geology
Reservoir Model Design
Fractured Reservoir Characterisation
Geology for Drilling Engineers
Reservoir Engineering
Applied Reservoir Engineering
Well Test Design & Analysis
Logging While Drilling
Basin Analysis
Geomechanics

Course Tutors

Mark Bentley PhD
Main Series tutoring: Reservoir, E&P Overview, Open Air and Master Class
I**ndustry experience:** over 25 years, geoscience
Career background: Shell, AGR and TRACS
Personal: Author 'Reservoir Model Design', SPE and EAGE distinguished lecturer, AGR & TRACS Training director, associate professor Heriot-Watt University

John Howell PhD
Main Series tutoring: Reservoir, Open Air
Industry experience: over 25 years, geoscience
Career background: Gaps, University of Liverpool, University of Bergen, Rocksource ASA
Personal: Published over 100 scientific articles and edited three books

TRACS International Limited
East Wing First Floor, Admiral Court
Poynernook Road, Aberdeen, AB11 5QX
Tel: +44 (0)1224 024074

Contact
training@tracs.com

www.tracs.com /tracs-international