

South Australia Society of Petroleum Engineers

TRAINING COURSES

Formation Water Interpretation

Instructor: David Bowyer

Course Outline

- Fundamentals of water analyses
- Data visualisation and the use and abuse of databases
- Insights from natural water systems
- Applications in exploration including the use of salinity trends, R_w gradients, fingerprinting of formation waters and unmasking water types with a view to identifying potential bypassed pay
- Applications in production including water influx patterns, hydrochemical profiles, basic water compatibility for waterfloods, tracers, scaling and corrosion
- Geothermal waters, formation waters associated with coalbed methane and organic compounds in formation waters

9-10 FEBURARY 2012 | 09:00-17:00

Ayers House | 288 North Terrace | Adelaide SA 5000

Register today for this comprehensive 2-day training course taught by an industry leader

Class size is limited, so don't delay – Register today!

Email: Dr. Manny Haghighi (mhaghighi@asp.adelaide.edu.au)

Turn over for more course details...

Society of Petroleum Engineers
<http://southaustralia.spe.org/>



South Australian Section

South Australia Society of Petroleum Engineers

TRAINING COURSES: Formation Water Interpretation



South Australian Section

Course Fees

SPE Member:	AU \$ 1500
Non Member:	AU \$ 1650
SPE Student Member:	AU \$ 150

Course fees are inclusive of 10% GST

Attendees will receive course manual and materials. Full catering will be provided.

To Register

Email completed registration form to :

Dr. Manny Haghighi

mhaghighi@asp.adelaide.edu.au

RSVP: 15th January 2012

Payment required to guarantee your reservation.

Note: Santos employees - use Oracle No. 100847

Course Description

The interpretation of water analyses is essential for geoscientists and engineers engaged in petroleum exploration and production. Significant variations in water chemistries require explanation. Water recoveries don't automatically mean formation water. Sources of water influx must be determined. Incorrect interpretations can impact on the direction of exploration programs and the economics of production wells. Unmasking water types in samples, identifying formation water and determining possible bypassed pay are some of the topics to be covered.

This short course will provide participants with the skills necessary to get the most from water analysis data. A range of examples and exercises will familiarise participants with interpretive procedures and evaluations. Exercises will require the use of a standard calculator.

What Participants will Learn

- How to interpret water analysis reports
- Techniques in presenting hydrochemical data
- Screening procedures for identifying water types
- An understanding of a wide range of water chemistries
- How water analyses are a critical component in drill stem test analysis
- A range of applications of hydrochemistry in exploration and production

About the Instructor

David Bowyer graduated with a BSc (Hons) in Geology from Adelaide University in 1982. David worked for Santos Ltd from 1983 to 1997, being involved with the Exploration Data Base Project, Development Geology and Geophysics, the Petrophysics Team and the Acreage Evaluation Team (South Australian Business Unit). His work focussed on interpretation of formation waters from the Cooper, Eromanga, Bonaparte and Amadeus basins for geological, engineering and environmental applications. From 1998 to 2000, David worked as a Project Geologist for Strike Oil NL and since 1998 he has been independently consulting on formation water interpretation.

David's experience has included compilation, review and mapping of geological and geochemical data for the Cooper and Eromanga basins for evaluation of oil and gas leads and prospects, along with maintenance of computer based geological and petrophysical data for field and regional studies. Consulting work has focussed on formation waters from the Surat, Bowen, Cooper, Eromanga, Carnarvon, Canning, Bonaparte, Gunnedah and Papuan Basins. David is a member of AAPG, PESA, SPE and the International Association of Hydrogeologists (IAH).



South Australian Section

CONTINUING EDUCATION PROGRAM REGISTRATION FORM

Formation Water Interpretation

David Bowyer

Ayers House, 288 North Terrace, Adelaide SA 5000
February 9– 10, 2012 (09:00 - 17:00)

ATTENDEE DETAILS

NAME : _____

JOB TITLE : _____

ORGANISATION : _____

SPE MEMBER : YES / NO

IF YES, MEMBERSHIP # : _____

ATTENDANCE TYPE:

SPE MEMBER (\$1500) ☐ NON-MEMBER (\$1650) ☐ STUDENT SPE MEMBER (\$150) ☐

ADDRESS : (Street Name) _____

(Suburb) _____ (Post Code) _____

TEL : _____ FAX : _____

EMAIL : _____

SIGNATURE : _____

Please send your completed registration form together with the course fee by January 15, 2012 to the attention of:

Dr Manny Haghighi, SPE-South Australia Section
C/- Australian School of Petroleum
The University of Adelaide, Adelaide SA5005
Tel: (08) 8303-4296 e-mail: mhaghighi@asp.adelaide.edu.au

Forms of Payment :

(sorry, no credit card facilities available)

Money Order/Cheque payable to:

“Society of Petroleum Engineers South Australian Section”

Electronic Funds Transfer to: (Please include your name in the transaction description)

Account Name: Society of Petroleum Engineers

BSB : 805 050 Account # : 61557045

Note: Santos employees
please enrol through
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