



Society of Petroleum Engineers

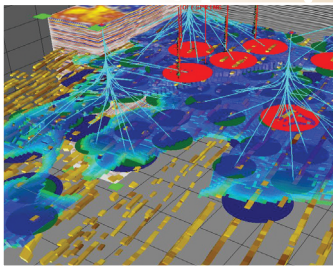
Register by 11 June 2010

Supported by the Aberdeen branch of:



21–23 June 2010 | Hilton Aberdeen Treetops | Aberdeen, UK

Reservoir Description & Dynamics: Optimised Field Development Planning through Improved Reservoir and Facility Engineering Integration



Who Should Attend

The workshop is a limited attendance meeting of up to 80 people, designed for those in the oil and gas industry who work on field development preparation.

Delegates are expected to actively participate in discussions. The goal is to have approximately equal numbers of facilities and reservoir engineers present.

Committee List

Co-Chairpersons:

David Aron
Petroleum Development Consultants

Iain Percival
Schlumberger Business Consulting

Steering Committee:

Shahin Abasov
Halliburton

Farzad Farshbaf
Delft University of Technology

Dr. John H Hargreaves
Production Services Network

Nigel McKim
Hess Limited

Neeraj Nandurdikar
IPA

Dr. Neil C Renton
University of Aberdeen

Simon Richards
EP Consult Ltd

Phil Roberts
Adil

Jean van Berkel
Shell International

Robert Weston
Cameron

Tao Yang
Statoil

Workshop Description

The development planning process as the front end of project delivery has become increasingly important in ensuring that asset value is maximized from new oil and gas reserves. The relevance of getting this process right has increased with the challenges posed by non-traditional reservoirs and difficult environments. The volatility of oil and gas prices has had the effect of amplifying the penalties incurred if the process is not well understood and projects do not deliver as promised.

Reservoir engineering and facilities design are two key elements of this process. However effective communication between these two communities often leaves much to be desired. A critical aim of the workshop will be to enable reservoir engineers and facilities engineers to better understand their respective roles and develop ideas on how improved integration can be achieved.

The workshop will look at the impact this lack of full integration between reservoir engineers and facilities engineers can have on the development process and ultimately on project success. Typically negative impacts could involve a potential reduction in hydrocarbon recovery, increased costs both capital and operating or an increased HSE exposure.

Participants in the workshop will contribute to the dialogue, be introduced to latest advanced modelling techniques, gain a better understanding of the process and become more aware of the importance of managing uncertainty.

Workshop Objectives and Deliverables

To bring together a number of practising reservoir and facilities engineers from both operator and service companies in order to improve the development planning process and to:

- understand the information facilities engineers require from the reservoir engineers and its timing.
- explain reservoir engineering uncertainty and its impact on input to facilities engineers and timing
- hear about the latest integrated modelling techniques from operators and service companies
- appreciate the importance of uncertainty management in the development process
- discuss how development decisions are made and possible improvements in the process



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21–23 April 2010 | Hilton Aberdeen Treetops | Aberdeen, UK

WORKSHOP

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Reservoir Description & Dynamics:
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Improved Reservoir and Facility Engineering Integration*

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Sponsorship Support

Sponsorship support helps offset the cost of producing workshops and allows SPE to keep the attendance price within reach of operations-level individuals who benefit most from these technical workshops.

This workshop offers the Sponsor unique access to a focused group of key decision makers in the operating community. This is an informed audience discussing state-of-the-art technology and best practices.

While SPE prohibits any type of commercialism within the technical session room itself, the society recognises that sponsoring companies offer valuable information to attendees outside the technical sessions.

Sponsorship Categories

Sponsorships are offered on a first come first served basis. Please contact SPE to verify the availability of a particular Sponsorship.

Sponsorship opportunities:

- Audio-Visual equipment
- Welcome reception and dinner
- Coffee breaks
- Lunch breaks
- General sponsorship

Sponsorship Benefits

In addition to on-site recognition SPE will recognise sponsors on the SPE website and in printed material for the workshop.

For More Information

For a detailed list of available sponsorships, including benefits and pricing, please contact Stephanie Gardner at sgardner@spe.org

Schedule

Monday, 21 June

1200–1300	Registration open
1230–1330	Opening delegate lunch
1330–1400	Welcome/opening session
1400–1530	Session I: Facilitates: Important Issues and Case Studies
1530–1600	Coffee break
1600–1730	Session I: continued
1830–1930	Welcome reception
1930–2200	Dinner

Tuesday, 22 June

0900–1030	Session II: Reservoir: Important Issues and Case Studies
1030–1100	Coffee break
1100–1230	Session II: continued
1230–1330	Lunch
1330–1500	Session III: Modelling and Dealing with Uncertainties
1500–1530	Coffee break
1530–1700	Session III: continued

Wednesday, 23 June

0845–1015	Session IV: Reaching Field Development Decisions
1015–1030	Coffee break
1030–1200	Session IV: continued
1200–1245	Lunch
1245–1415	Session V: Improving the Development Planning Process
1415–1430	Coffee break
1430–1530	Session V: continued
1530–1600	Workshop wrap-up and close

Preliminary Technical Agenda

Monday, 21 June 2010

Session I– Facilities: Important Issues and Case Studies

Session Managers: Dr. John Hargreaves, Phil Roberts, Robert Weston

This session is planned to give a clear and systematic introduction to the main concerns of the facilities engineer in the development process. Major issues in facilities development will be identified, discussed and illustrated through case studies, establishing shared terms of reference to be developed, enabling active discussion on the issues.

Tuesday, 22 June 2010

Session II– Reservoir: Important Issues and Case Studies

Session Managers: Shahin Abasov, Farzad Farshbaf, Iain Percival

This session will introduce the issues and allow reservoir engineers to present their understanding of what is required of them by the facilities engineers to give the best chance of the project delivering maximum value to the owners. Examples of both positive and negative experiences will be discussed with the aim of capturing lessons learned. It will address the key question of what can be done to improve communication with the facility engineers in order to ensure production and recovery is maximized. It will also explore the issue of whether the understanding of subsurface uncertainties is improving especially in terms of the impact of the uncertainties at various stages of project maturation. In particular, the issue of “when is enough work, enough?” will be discussed in terms of understanding the project in the wider commercial context and timeframe.

The discussion will consider issues such as the:

- link between uncertainties, consequent decision making and risk management
- structure and process to ensuring the knowledge is captured and shared amongst all team members as time goes on, more work is done and knowledge grows
- importance of clear information management and knowledge preservation particularly in dispersed/distributed teams
- structure of team communication: do the project team members communicate in a structured way using a shared “language” with a view to addressing uncertainties and preserving decision making rationale throughout project life

Session III– Modelling and Dealing with Uncertainties

Session managers: Jean van Berkel, Tao Yang

This session will focus on the current status of integrated modelling of reservoirs and facilities for development planning. PVT remains a major issue as reservoir models tend to have no more than ten components but facility models 20 to 50 components.

Examples of integrated reservoir - facility models will be discussed.

- What is the best approach in modelling for development planning, e.g. separate reservoir and facility models or an integrated model?
- What are the pros and cons of simple and rigorous methodologies?
- What is the impact of uncertainties in the reservoir on the design of the facilities and are the current modelling tools able to handle them?
- What are the issues in characterising the PVT for the reservoirs and facilities and why do the surface facilities need so many components?
- Are there any water issues?
- How sure are we of the final outcome and what has been the impact when we were wrong?

Wednesday, 23 June 2010

Session IV– Reaching Field Development Decisions

Session Managers: Nigel McKim, Neeraj Nandurdikar, Simon Richards

Successful field development decisions can only be reached by effective interaction between the subsurface community and the facilities concept and engineering teams and overcoming the facilities and reservoir divide. This session will focus on presentations and case studies that will identify key factors and practical solutions by which this divide can be bridged.

Example topics that will be covered in this session include:

Register by 11 June 2010

- Identifying what we can do better: How can we improve our decision making process? How do we balance the needs for shorter project timelines with getting complete data? Can a production engineering perspective provide some insights?
- Team Formation: Are there elements of team formation such as functional representation, timing of forming an integrated team that have been proven or have the potential to overcome this divide?
- Do we require a new role and skill: What is it about our education and industry experience that leads to this divide? Does the industry need to train a new breed of people – “Asset Integrators” or “Development Planners” - who are comfortable with uncertainty and certainty and see the big picture simultaneously with clarity on detail
- Case studies of successful projects: How did they overcome these challenges? What practical steps did these organisations/projects take to enhance the development decision making process?

Session V– Improving the Development Planning Process

Session Managers: David Aron, Dr. Neil Renton

The purpose of this session will be to concentrate on how the development planning process can be improved whether by better and more effective communication or the use of innovative techniques. It will also explore the impact of commercial and drilling requirements on the development planning process.

The session will conclude with a summary of the main lessons and conclusions of the workshop.

Workshop Guidelines

FORMAT

Two and a half days of informal sessions, with a number of short presentations and breakout discussions per session, and an evening welcome reception and dinner on Monday 26 April. Full details will be provided with your registration pack.

ATTENDANCE

70-80 delegates from relevant disciplines with proven experience and/or knowledge of the subject areas being covered.

CONTINUING EDUCATION UNITS

The workshop qualifies for SPE Continuing Education Units (CEU), at the rate of 0.1 CEU per hour of the workshop.

SCRIBE'S REPORT

The steering committee will appoint a scribe to make a full report of the workshop, summarising all presentations and discussion. This report will be circulated to all attendees. The copyright of the scribe's report will belong to SPE.

ATTENDANCE CERTIFICATE

All attendees will receive a certificate from SPE attesting to their participation.

CANCELLATION POLICY

Written notice received 30 days before the starting date of the workshop entitles registrants to a 50% refund. There will be no refund for cancellations received after this time.

PLEASE USE FORM ON BACK FOR REGISTRATION

UPCOMING WORKSHOPS AND CONFERENCES

17–20 May 2010	Unconventional Gas Production <i>Krakow, Poland</i>
24–25 May 2010	SPE International Conference on Oilfield Corrosion <i>Aberdeen, UK</i>
26–27 May 2010	SPE International Conference on Oilfield Scale <i>Aberdeen, UK</i>

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