Despite its challenges, targeting recoveries of up to 70% is possible but requires a long-term perspective and a step change in the way we think about field developments.

Traditional approaches focus on EOR per well optimisation rather than total field recovery and determining a field’s optimal well spacing early on could significantly lower overall development costs in the future. Likewise, early identification of a field’s future EOR potential is important as it may guide early design considerations, such as materials selection and avoid unnecessary expenditures down the line. Since one solution is often not applicable across a given field, piloting different EOR schemes may also be required.

Recovery rates tend to be very low. Any improvement in the understanding of the reservoir fractures distribution and density, creates an opportunity to boost the production, and to enhance the life span and recovery from these complex assets.

This workshop aims to tackle state-of-the-art advances, studies, and technologies related to carbonate reservoirs, targeting an international audience and inviting presentations and sharing of specific examples and case histories that have shaped the exploration, delineation, exploitation, and depletion strategies and operations of the most intensively studied reservoirs of the world.
Prior to any acquisition. Data acquisition should be expressed as a market. Therefore, value on information (VOI) becomes a key driver for reservoir monitoring to successfully deliver an EOR project. Surveillance cost could be achieved by advanced software and services which help select the best EOR technique for the unique properties of the reservoir, and design strategies to overcome technical challenges and increased confidence for maximum return.

Repeated measurements for EOR projects over the life cycle of a field requires technical accuracy, where permanent installations can mitigate problems associated with repeatability and enhance frequency of the acquired data. Within the past decade, several major fields have served as testing grounds for permanent installations. These fields now stand as maturing examples that display the value and range of new technologies that have proven capable of accurately monitoring subsurface properties as they change throughout the life of a field. These are referred to in the industry as permanent reservoir monitoring (PRM) such as life-of-field seismic (LoFS) systems. Downhole permanent measurement, real-time monitoring and data transmission are becoming more common practices.

Technology integration in an EOR scheme is a vital component to achieving higher recovery factors in mature giant reservoirs. From seismic acquisition and geological interpretation right through to reservoir simulation, the last decade has seen dramatic increases in computing power and more complex and detailed geological models than ever before. With the smallest percentage rise in oil and gas recovery having a huge impact on the bottom line, there has been an increased focus on reservoir management technologies in providing operators with the crucial information they need to develop assets and increase recovery rates. From seismic acquisition and geological interpretation right through to reservoir simulation, the last decade has seen dramatic increases in computing power and more complex and detailed geological models than ever before. Such computing power has also enabled research, previously found in academic journals, to start making the transition into operational, external funding and declining budgets through to those who favour commercial technologies. However, hurdles remain from lack of the...
external funding and declining budgets through to those who favour the status quo and a disjointed approach between partners. Against the backdrop of the current low oil and gas price environment, close partnerships and collaboration between operators, service companies, and academia is vital to ensure a healthy technology pipeline that can meet today’s field development and recovery challenges.

0930–1030 | Breakout Session

1030–1100 | Coffee Break

1100–1200 | Session 4: IOR/EOR Pilots

Session Chairs: Bader Salf Al-Badi, ADMA-OPCO; Amr Hussan, The Linde Group

Due to the complexity and uncertainty associated with most EOR processes, a small-scale pilot is often needed to demonstrate the successful application of an EOR process within a specific reservoir prior to wider commercial implementation. Designing and realising a pilot is an important step between models, laboratory experiments, and commercial implementation.

A pilot requires careful planning; objectives need to be clearly defined, a plan designed to address specific risks/uncertainties needs to be created, data acquisition and monitoring strategies must be developed, facilities and operational procedures must be adequate, and finally, results should be interpretable for full field implementation.

The objective of this pilot/experiments/case studies session is to present the real experience of EOR with the intent of illustrating and sharing successful technological and operational best practices that have been developed, as well as the shortcomings and challenges experienced along with various other findings which may be adaptable to EOR projects.

What are the key lessons learnt by the experts? What are the main technical and operational challenges, what can be optimised, what are the key process variables to monitor, and when to start and end the pilot, are some of the key questions to be covered in this session.

1150–1250 | Breakout Session

1300–1400 | Luncheon

1400–1500 | Session 5: Field Development Planning (Economics) Challenges and Opportunities

Session Chairs: Martin Bremeier, Wintershall; Djamal Ouzzane, ADMA-OPCO

Reservoir characterisation lays a good foundation for generating the reservoir development plan. The geological model is upscaled and the dynamic model is generated by incorporating any available historical production data, well test results, and various facilities options, etc. This model is in turn used to generate many development scenarios. Reservoir engineers apply their technical know-how, regional knowledge, and use specialised tools to generate and short list the field development options.

The economic outcome of different scenarios is usually the key factor in selecting the optimum field development plan. However, there are many challenges and opportunities to consider. These are different for different companies.

This session will highlight the challenges the operators may face and the opportunities they may consider in selecting the optimum field development scenario. The session will also explore new technologies which would significantly improve recovery in various zones and regions of a reservoir and may improve the economic outcome of the FDP, e.g. smart multi-lateral wells, selective acidisation, etc.

1500–1530 | Coffee Break

1530–1630 | Breakout Session

1630–1645 | Co-Chairs’ Closing Remarks
REGISTER BY
26 DECEMBER 2015
TO AVOID LATE FEES

REGISTRATION FORM
SPE Workshop: The Journey to 70% Recovery Factor—From Vision to Plan
9-10 February 2016   Jumeirah at Etihad Towers | Abu Dhabi, UAE   www.spe.org/events/15aab6

Attendance is limited and is not guaranteed. Early registration is recommended. Please print or type in black ink.

IMPORTANT:
Registration fee MUST be paid in advance for attending the workshop.

WORKSHOP FEE:
SPE Members:
○ Before 26 December = USD 1150
○ After 26 December = USD 1600
Nonmembers:
○ Before 26 December = USD 1350
○ After 26 December = USD 1800

TRAINING COURSE FEE:
○ SPE Members: USD 750
○ Nonmembers: USD 900

WORKSHOP WITH TRAINING COURSE FEE:
SPE Members:
○ Before 26 December = USD 1400
○ After 26 December = USD 2100
Nonmembers:
○ Before 26 December = USD 1600
○ After 26 December = USD 2300

Workshop fee includes:
Technical sessions, materials, daily coffee breaks and luncheons, certificate of Continuing Education Units (CEU), and welcome reception and dinner (if applicable). Accommodation is NOT included in the workshop registration fee.

IMPORTANT: All SPE Middle East rates are net of taxes. The fees in this form do not include any local or withholding taxes. All such taxes will be added to the invoice.

Fax or email the completed registration form with payment or credit card information to:
Online: www.spe.org/events/15aab6
Email to: registrationdubai@spe.org
Telephone: +971 (4) 457 5800
Fax: +971 (4) 457 3164
Visa: SPE Middle East, North Africa, and South Asia will assist in providing a visa invitation letter, upon request in writing, to confirmed registrants after receiving full payment of registration fees. Visa invitation letters take five days to issue from the date of request and it is the delegate’s responsibility to obtain their own visa. SPE cannot issue the visa nor can we guarantee it will be obtained.
Questions: Contact Damian Godzisz at dgodzisz@spe.org.

FIRST NAME       LAST NAME

SPE MEMBER?    Yes  No  MEMBER NUMBER

COMPANY/ORGANISATION    JOB TITLE

STREET/P.O. BOX NUMBER    CITY    STATE/PROVINCE

ZIP/POSTAL CODE    COUNTRY    FAX

TELEPHONE    EMAIL (REQUIRED)

DO YOU WISH TO PRESENT A POSTER? (SUBJECT TO SELECTION)
○ Yes  ○ No

DO YOU WISH TO BE CONSIDERED A DISCUSSION LEADER? (SUBJECT TO SELECTION)
○ Yes  ○ No

If yes, please indicate the subject on which you would like to present:

HOW DID YOU FIRST BECOME AWARE OF THIS EVENT?
○ Colleague (word of mouth)  ○ Section or Student Chapter  ○ JPT Ad  ○ Industry Publication
○ Email from SPE  ○ SPE Website  ○ Other Industry Website  ○ Brochure Received by Mail
○ I am a Committee Member/Presenter  ○ Employer  ○ An Exhibitor
○ Others (please specify)

DO YOU HAVE ANY MOBILITY/DIETARY REQUIREMENTS? (PLEASE SPECIFY):

PAYMENT DETAILS:
○ Bank Transfers: (Please include the name of the registrant and 15AAB6 as reference for the transfer)
  Name of Bank: HSBC Bank Middle East Ltd. Jebel Ali Branch, P.O. Box 66, Dubai, UAE
  Name of Account: SPE Middle East DMCC
  Account Number: 036-217131-100  IBAN Number: AE180200000036217131100
  Swift Code: BBMEAEAD
○ Credit Card (Check one):
  American Express  MasterCard  Visa
  Card Number (will be billed through Society of Petroleum Engineers)
  Expiry Date (mm/yy)
  Security Code

CANCELLATION AND REFUND POLICY:
• A processing fee of USD 100 will be charged for cancellations received before the registration deadline of 10 January 2016.
• For cancellations received after the registration deadline, 10 January 2016, 25% of the fee will be refunded to the registrant.
• No refund on cancellations received within seven (7) days prior to the workshop date, i.e. on or after 2 February 2016.
• No refund will be issued if a registrant fails to attend the workshop.

NAME OF CREDIT CARD HOLDER: (PRINTED)

SIGNATURE: (REQUIRED)

DATE:

To submit your registration online, please visit the event’s website, www.spe.org/events/15aab6. Alternatively, you can email this form to registrationdubai@spe.org or fax it to +971.4.457.3164.