Slim Hole Drilling and Completion – The Way Forward

7 - 8 MAY 2018
KUALA LUMPUR, MALAYSIA

Oil prices have gradually increased and stabilised towards the end of last year and the industry is getting ready to steadily move forward efficiently and be more cost-conscious. Among the lessons learnt from the low oil price environment is that some not commonly applied but proven techniques can be further explored and optimised in search of even lower well cost. One of the techniques is working with small diameter boreholes.

Slim Hole Drilling and Completion is not new. Its application historically has been largely driven by efforts to capitalise on a number of advantages, mainly to attain cost savings. This technique involves wells that are designed, constructed and completed with slim borehole sizes and cased-off with not only smaller sizes of tubulars but often with reduced number of casing strings and fit-for-purpose completions. When properly planned and executed, the savings can come from many sources without compromising HSE and well or operations integrity. This technique has the potential to reduce impact on the environment if the footprint, equipment and operations can be scaled down, and well drilling efficiency minimised. It can offer an economical way to drill and test exploration wells but the envelope has been pushed to also include producing and injection wells thus enabling cost-effective development of marginal offshore fields.

This workshop will cover the philosophy, experiences and best practices for this technique. In addition, some focus will be directed on various existing and new methods and designs to overcome the technical challenges inherent to Slim Hole Drilling and Completion. Recent development and technology advancement will also be discussed to help address well design complexities, completions intricacies, operational risks, efficiency enhancement and maximise benefit realisation.

There will also be spotlight on applying intelligent and fit for purpose completions that minimise intervention and also exploring the completion options to potentially prevail over issues related to well life, recovery factor and more.

Session Highlights

Slim Wells – Surmounting the Obstacles
Subsurface Insights to Slim Hole Drilling and Development
Slim Hole Drilling Solutions
Case Studies: Exploration Drilling and Testing
Completions and Interventions Solutions
Case Studies: Development Drilling and Completions

Who Should Attend
Professionals involved in:
• Drilling
• Completions
• Production and Operations
• Subsurface
• Well Engineering

Technical Programme Committee

CHAIRPERSONS
Mohd Zulkifli Zakaria
Head of Well Management
PETRONAS

Sunchai Ponggorapin
Vice President, Thailand Offshore Well Operations Department
PTT Exploration and Production Public Company Limited

COMMITTEE MEMBERS

Le (Lola) Dang
Sand Control Business Development Manager
Baker Hughes, a GE company

Rajdeep Gupta
Product Line Manager, Drilling Services – Southeast Asia
Baker Hughes, a GE company

Muhammad Fadzli Abdul Rahim
Technical & Sales Manager – Completions & Wellbore Intervention
Baker Hughes, a GE company

Ahmad Razien Lyiacket Ali
Country Manager
Halliburton Energy Services (M) Sdn Bhd

Adrian Robert Young
Drilling Team Leader
Murphy Sarawak Oil Company Ltd

Norjusni Omar
Staff Completion Engineer
PETRONAS

Malik Faisal Abdulla
Principal Engineer – MPMI Wells Management
PETRONAS

Noorazmah Yusoff
Senior Manager
Wells Malaysia Exploration
PETRONAS Carigali Sdn Bhd

WORKSHOP ADVISOR
Mohd Abshar Mohd Nor
Head of Wells Development Sabah Wells Delivery Malaysia
PETRONAS Carigali Sdn Bhd
Member, SPE Asia Pacific Regional Technical Advisory Committee
Workshop Objectives

This workshop provides opportunities for sharing and discussing views, experience, success stories, technology advancement, and challenges from various facets including that of operators, service providers, and regulators. The aim is to encourage more industry acceptance to further explore slim hole drilling technique, promote the same in Malaysia and South East Asia, and optimise its application to meet the current industry demands of enhancing operational efficiency and reducing well cost.

LEAGUE OF VOLUNTEERS

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Join our league of dedicated members who provide the energy that makes our society work.

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• Contribute to programmes and activities with your knowledge and experience
• Meet and network with members near you and around the globe
• Demonstrate thought leadership in your area of expertise and interest at both local and international levels

www.spe.org/volunteer

Contact us at volunteer@spe.org for more information

Technical Programme Preview

MONDAY, 7 MAY 2018

0700 - 0800  Arrival of Delegates and Registration

0730 - 0800  Discussion Leaders and Session Managers Briefing

0825 - 0830  Safety Announcement by Hotel

0830 - 0840  Welcome, Introduction and Joint Keynote Addresses

0840 - 0930  Session 1: Joint Keynote Speakers

0930 - 1000  Group Photo / Coffee and Tea Break

1000 - 1200  Session 2: Panel Session Slim Wells – Surmounting the Obstacles

1200 - 1300  Networking Luncheon

1300 - 1430  Session 3: Subsurface Insights to Slim Hole Drilling and Development

1430 - 1445  Coffee and Tea Break

POSTER SOLICITATION & INFORMATION

All participants are encouraged to prepare a poster for the Workshop. Presentations on both research and field experience are welcomed. Posters, including unconfirmed / partial results, are to be presented at an assigned time and are open for discussion. Posters will be on display for the entire Workshop period.

When preparing your poster:

• Avoid commercialism. No mention of trademarks / product name
• Poster size should be approximately 0.8m x 1.2m (W x H) or size A0 in portrait layout
• Identify topic by title, affiliation, address, and phone number
• Include a brief abstract that summarises the technology to be addressed
• Make the display as self-explanatory as possible
• Place the information in sequence: beginning with the main idea or problem, method used, results, etc. (Draw a plan keeping the size and number of illustrations in mind)
• Keep illustrations simple by using charts, graphs, drawings, and pictures to create interest and visually explain a point
• Use contrasting colours
• Use large print for narrative materials. (We suggest a minimum of 24 points or 3” high letters for the title)

*Note that the Workshop Programme Committee will review all poster abstracts / materials prior to display, and reserves the right to refuse permission to display any poster considered to be commercial in nature. If you are interested to participate, please email your proposed topic with a short abstract (between 200-300 words) to Jenny Chong, SPE Senior Event Manager at jchong@spe.org by 6 April 2018.

ATTENTION NON-MEMBERS: Join our worldwide membership!

Non-member full workshop attendees can join SPE at no additional cost. Look for your exclusive offer by email shortly after the event.
### Tuesday, 8 May 2018

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>0800 – 0900</td>
<td>SPE Registration / Networking Breakfast</td>
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<tr>
<td>0900 – 1100</td>
<td><strong>Session 6: Case Studies: Exploration Drilling and Testing</strong></td>
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<td>1100 – 1115</td>
<td>Coffee and Tea Break</td>
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<td>1115 – 1315</td>
<td><strong>Session 7: Completions and Interventions Solutions</strong></td>
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<td>Session Managers: Jennie Pui Ling Chin, Schlumberger, Le Lola Dang, Baker Hughes, a GE company</td>
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<td>1315 – 1415</td>
<td>Networking Luncheon</td>
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<td>1415 – 1615</td>
<td><strong>Session 8: Case Studies – Development Drilling and Completions</strong></td>
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<td>Session Managers: Norjusni Omar, PETRONAS, Muhammad Fadzi B Maui, Baker Hughes, a GE company</td>
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<td>1615 – 1630</td>
<td>Coffee and Tea Break</td>
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<td>1630 – 1700</td>
<td><strong>Session 9: Workshop Summary and Closing Remarks</strong></td>
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<td></td>
<td>Co-Chairpersons: Mohd Zukifli Zakaria, PETRONAS, Sunchai Pongorapin, PTT Exploration and Production Public Company Limited</td>
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### GENERAL INFORMATION

**DOCUMENTATION**
- Proceedings will not be published; therefore, formal papers and handouts are not expected from speakers.
- Work-in-progress, new ideas, and interesting projects are sought.
- Note-taking by attendees is encouraged. However, to ensure free and open discussions, no formal records will be kept.

**WORKSHOP DELIVERABLES**
- The committee will prepare a full report containing highlights of the Workshop and the report will be circulated to all attendees.
- Powerpoint presentations will be posted online and provided to attendees after the Workshop.
- Provision of the material by Discussion Leaders will signify their permission for SPE to do so.

**COMMERCIALISM**
- In keeping with the Workshop objectives and the SPE mission, excessive commercialism in posters or presentations is not permitted. Company logos must be limited to the title slide and used only to indicate the affiliation of the presenter.

**ATTENDANCE CERTIFICATE**
- All attendees will receive a Workshop attendance certificate. This certificate will be provided in exchange for a complete Attendee Survey Form.

### SPONSORSHIP SUPPORT INFORMATION

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

Supporters benefit both directly and indirectly by having their names associated with a specific workshop. While SPE prohibits any type of commercialism within the workshop room itself, the Society recognises that supporting companies offer valuable information to attendees outside the technical sessions.

**SPONSORSHIP CATEGORIES**
Sponsorship categories are offered on a first-come basis. Please contact SPE to enquire and verify the availability of categories. Existing supporters have the opportunity to renew the same level of support for annual workshops.

**SPONSORSHIP BENEFITS**
In addition to onsite recognition, SPE will recognise sponsors on the SPE website and in all printed materials for the workshop. Based on the category selected, supporting companies also receive logo visibility on promotional workshop items.

**FOR MORE INFORMATION**
For a detailed list of available sponsorship opportunities, including benefits and pricing, contact Jenny Chong at jchong@spe.org

The Society of Petroleum Engineers (SPE) is a not-for-profit organisation. Income from this event will be invested back into SPE to support many other Society programmes. When you attend an SPE event, you help provide even more opportunities for industry professionals to enhance their technical and professional competence. Scholarships, certification, the Distinguished Lecturer programmes, and SPE’s energy education programmes Energy4me are just a few examples of programmes that are supported by SPE.
Would you be willing to give a brief (10-15 minutes) presentation?  □ Yes  □ No

If yes, please attach the topic with a short abstract of your proposed presentation.

One of the Programme Committee members will contact you to discuss your presentation.

*IMPORTANT: REGISTRANTS FOR SPE WORKSHOPS ARE ACCEPTED ON THE BASIS OF INFORMATION SUBMITTED BY EACH REGISTRANT.

Technical Disciplines (Check One)  □ Drilling  □ Completions  □ Management and Information
□ Health, Safety, Security, Environment, and Social Responsibility  □ Production and Operations  □ Reservoir Description and Dynamics
□ Projects, Facilities and Construction

Primary Responsibility (Check One)  □ Drilling  □ Economics  □ Geology  □ Geophysics  □ Management
□ Operation  □ Production  □ Reservoir  □ Surveillance  □ Other

Listing background and experience. (Use additional paper if required)

List your expectation for the Workshop, so that the committee can tailor a portion of the Workshop to answering attendees' concerns. (Use additional paper if required)

Registration Fees
(Please tick appropriate box)

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<tr>
<th></th>
<th>SPE MEMBER</th>
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<tr>
<td>Workshop</td>
<td>USD 1,600.00</td>
<td>USD 1,800.00</td>
<td>USD 1,700.00</td>
<td>USD 1,900.00</td>
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Group Registration Available - Please contact us at spekl@spe.org

Note: Fee includes workshop sessions, workbook, certificate, daily luncheons and coffee breaks. Registration fees do not include accommodation. If attendance is not sufficient for training course by 16 March 2018, SPE reserves the right to cancel the course.

Cancellation Policy

• A processing fee of USD150.00 will be charged for cancellation received thirty (30) days prior to the first day of the workshop.
• 25% refund will be made for cancellation received between twenty nine (29) - fifteen (15) days prior to the first day of the workshop.
• No refund on cancellation received fourteen (14) days prior to the first day of the workshop.
• No refund will be issued if a registrant fails to show up on-site.

This form may be used as a company invoice. Mail completed registration form with remittance and any supporting material to:

Society of Petroleum Engineers
Suite 12.01, Level 12, Menara IGB, Mid Valley City
Lingkaran Syed Putra, 59200 Kuala Lumpur, Malaysia

T 60.3.2182.3000  F 60.3.2182.3030  E spekl@spe.org

Note: Forms will not be processed and space cannot be guaranteed unless accompanied by payment for total amount due.