	<p style="text-align: center;">IADC UBO & MPD Committee Meeting MoM</p>	<p style="text-align: center;">2nd Quarter Meeting Apr 19-20, 2018 One Shell Square, New Orleans</p>
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Day 1 – Thursday April 19

08:30 Welcome, Announcements and Safety Moment

Andre Alonso Fernandes welcomed the UBO & MPD Committee and thanked Shell for sponsoring the meeting. Sara Shayegi gave the safety briefing about the facilities.

Introduction of Committee Members and Guests. The group was asked to introduce itself. Each attendee gave an introduction including company name and work location. See Appendix 1 for the detailed list of the attendees.

Martyn Parker volunteered to be a minute taker.

Safety moment – Andre Alonso Fernandes. Faulty temperature sensor and its consequences. Moral of the story validate and check the sensors you rely on.

Leesa Teel (IADC) spoke about anti -Trust policy.

Reviewed last meeting minutes:

- Influx Management Annex on progressing.
- Training curriculum finished. Plan to have final revision during current meeting.
- UBD subcommittee reviewed almost all the document. Need the full document to complete the task.
- DGD subcommittee reviewing and aligning the API RP 92 C to the API RP 92 S document.
- Nothing new to add/change on the minutes.

09:00 Discussed Meeting and conference schedule

2018 Committee Meeting Schedule.

Q3 2018: September 18 – 20, Aberdeen Sponsors: Weatherford / Maersk Training

Q4 2018: December 4 – 6, Houston Sponsor: Nabors

2019 Committee Meeting Schedule.

Q1 2019: April 11-12, Amsterdam Sponsor and venue TBD

Q2 2019: June, Houston Sponsor: AFGlobal

Q3 2019: September, Houston Sponsor: Calvin Holt will confirm w/Chevron

2020 MPD conference Location

Locations Considered: Canada, Austin, Denver, Mexico City, and San Antonio (Other cities voiced but not voted on: Dallas, Dubai).

Denver picked by majority vote.

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Actions:

- Leesa will look at options to hold at Movenpick.
- Looking for sponsors for Amsterdam Conference and Committee meeting.

09:30 Subcommittee reports

UBO

- Dennis Moore: The document was 80% reviewed, API needs to send the last version of the document.
- Plan to add 2-Phase MPD section.

MPD

- There won't be a new ballot for API 92P and 92S with API. API aware and in agreement.
- Still working on Influx Management Annex, got contribution from volunteers.

Gas in the Riser

- RGH Addendum can be placed on IADC Deep Water Guidelines Wesley Williams LSU volunteered to lead. Leesa to put Wesley Williams in touch with Steve Kropler and Pete Bennet.
- Paul Sonnemann sent annex with the current status of work and future work.

DGD

- Making DGD document consistent with API 92S.
- Dave Smith reviewed the document and organized the document for what is required for CML. The document is approximately 75% reviewed. The goal is to send the document to the Full committee for Ballot before Q3.

HSE & Training

- Jacob Petz reported that the MCD material was included in the MPD curriculum and it is close to finalize.

MPD Influx Control workgroup

Liaison Reports

Regulatory (Calvin) Reviewed regions and regulatory Survey requirements countries have been ranked. Next step is to send an introductory message to the regulators. The action item the ARS (Audience Response System) survey only showed a 10 % interest in this topic.

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API 16 RCD Group

16RCD Annex G goal is to develop the revised testing standard is the current work. API have reviewed current document color-coding the use of 'Shall' and 'Should'. Roland will be working with the committee to align the document.

API RP 92 P & S

92S & 92P have both been balloted comments resolved some changes made post ballot. The provision for the changes to be recirculated to the committee for a final review is by end of +/- next month.

BSEE NTL subsea BOP group

Sara BSEE NTL 2008 work on Sub Sea Stacks as a break out group aiming to give a draft document for May 24th to BSSE. The original document was written in 2006 surface stack only pre 92 series documents. The intention is to reduce the amount of changes on the preexisting document.

11:00 Categorization Matrix for MPD Ready rigs

Stena Presented: Rig MPD Categorization Matrix for levels of readiness for a floating drilling vessel to perform MPD operations. The matrix presented had more level dimensions than the group expected to be reasonable.

The plan is to use Stena Matrix to further define the Wood Mackenzie Tier 1-4 levels. The proposed change is to separate the items from the matrix in two different groups. The first group would serve to define the tier, while the second would facilitate the categorization of the rig.

12:00 Lunch - Sponsored by Shell

13:00 New Business: Are we needing to bring in some new agenda?

13:15 Breakout sessions

Groups breaking in work sessions: MPD Subcommittee (to work on Influx management Annex), API 16 RDC, BSEE NTL, HSE & Training.

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16:00 Reconvene committee and meeting adjourned for the day

Training

- Document is ready to be issued to the IADC.

API 16 RCD

- Working on Annex G Testing requirements, need to add a link from the main document to the Annex. Close to agreement on the formulation of fluids required for testing.
- API review of Annex B erroneous and ambiguous content requires a rewrite.
- API is recommending that once work is done submit for a re-release as the main document would need a re-release by 2020.

Influx Management

- Reviewed the document section 3.4 Determination of Safe Operating Limits as written by William Bacon (Blade).

BSEE

- Reviewed document, made changes to NTL, and it will be released to the Committee & BSEE for review period of 2 weeks for feedback. To minimize confusion, a request was made to send the Feedback, Questions and Comments only to the Committee volunteers and NOT TO BSEE. The group is looking for Example Schematics to include in the document. The group concluded the work for this meeting.


CML

- The group reviewed API 92C against the forthcoming guidance from NORSOK regulations to avoid conflict between the documents.

Day 2 – Thursday April 20

08:30 Andre welcomed back the UBO & MPD Committee, thanked Shell for hosting and sponsoring meeting.

Martin Culen showed the committee IRP-22 with reference to RMD and opened discussion as to how best within API RP documents to cover the ‘technique of RMD’ nuisance gas. Action point is to review the final document with a view to putting this in API-RP-92-U. Leiro Medina will perform a gap analysis and get back to the committee.

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09:00 Resume working sessions

Influx Management Annex, Gas in the Riser and API 16 RCD.

12:00 Reconvene committee and meeting adjourned

API 16 RCD

- Identified that a complete rewrite of the document section 4 is required. Changes have been made to Annex G. Martin Culen will tidy up the document and issue to the group for review.

Influx Management

- Continued to review the Influx management document. Looking for new volunteers to work on the document sections.

Gas in riser

- Ultimate goal is to write a document to assist operators.
 - Sara has actions to obtain data from drilling contractors and operators
 - LSU experimental test matrix
 - Potentially planning

DGD

- Future items 92C Dave has some edits, then the document will be issued for review by subcommittee following this the goal is to issue to the main committee for comment.

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Appendix 1. Attendance List:

First Name	Last Name	Company Name
Sohail	Mohammed	ABS
Brian	Piccolo	AFGLOBAL CORP
Shawn	Mcclosey	AFGLOBAL CORP
Roland	Goodman	AMERICAN PETROLEUM INSTITUTE
Claire	Thompson	ANADARKO PETROLEUM CORPORATION
Igal	Askeroglu	ANADARKO PETROLEUM CORPORATION
Leiro	Medina	BEYOND ENERGY SERVICES & TECHNOLOGY CORP
Martin	Culen	BLADE ENERGY PARTNERS
Oscar	Gabaldon	BLADE ENERGY PARTNERS
Will	Bacon	BLADE ENERGY PARTNERS
Calvin	Holt	CHEVRON
Jeff	Graybeal	DIAMOND OFFSHORE
Pari	Natarajan	DNV GL
Einer	Lecrvik	DNV GL
Borre	Fossli	ENHANCED DRILLING
Dave	Smith	ENHANCED DRILLING
Chris	French	ENHANCED DRILLING
Ala Eddine	Omrani	ENSCO PLC
Thomas	Proehl	ENSCO PLC
Carlton	Walden	EXXONMOBIL
Paul	Francis	FENTEN LTD
Rachel	Johnson	HALLIBURTON ENERGY SERVICES
Joseph	Karigan	HALLIBURTON ENERGY SERVICES
Leesa	Teel	IADC
Babak	Akbari	LOUISIANA STATE UNIVERSITY
Wesley	Williams	LOUISIANA STATE UNIVERSITY
Mauricio	Almeida	LOUISIANA STATE UNIVERSITY
Adebowale	Solarin	MAERSK DRILLING
Jacob	Petz	MAERSK TRAINING, INC



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Orleans**

Dennis	Moore	MARATHON OIL COMPANY
Danny	Spencer	NABORS CORPORATE SERVICES
Andre	Perales	NABORS CORPORATE SERVICES
Svein	Hovland	NATIONAL OILWELL VARCO
Jon	Thain	OCEAN RIG MANAGEMENT INC
Frédéric	Jacquemin	PACIFIC DRILLING
Andre	Fernandes	PETROBRAS
Guilherme	Vani	PETROBRAS
Igor	Fonseca	PETROBRAS
Bianca	Malta	PETROBRAS
Sagar	Nauduri	PRUITT
Martyn	Parker	PRUITT
Micah	Spahn	PRUITT
Jeff	Mardon	REGIONAL MARINE & ENGINEERING SERVICES
Abdullah	O Q AILI	Saudi Aramco
Adel	Mettai	Schlumberger
Sara	Shayegi	SHELL EXPLORATION & PRODUCTION
Brain	Tarr	SHELL EXPLORATION & PRODUCTION
Roger	Van Noort	SHELL EXPLORATION & PRODUCTION
Sunday	Awe	SHELL SPDC
Ragnar	Fredriksen	STATOIL
Gavin	Humphreys	STENA DRILLING LTD
Nick	Ward	STENA DRILLING LTD
Alex	Bruce	STENA DRILLING LTD
Ezequiel	Bulant	Tecpetrol
Omer	Kaldirim	TEXAS A&M UNIVERSITY IADC STUDENT CHAPTER
Harshad	Patil	WEATHERFORD
Brian	Grayson	WEATHERFORD
Leslie	Cook	Wood McKenzie
Dag	Vavik	Future Well Control