



Meeting Agenda

Meeting: Passive Inflow Control Technology Forum (PICT)
 Date: 21st – 23rd April 2008
 Venue: Al Ghazal 1, The Ritz Carlton Hotel, PO Box 55577, Manama, Kingdom of Bahrain,
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 Website: <http://www.ritzcarlton.com/en/Properties/Bahrain/Default.htm>
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 Travel: By taxi to / from Bahrain Airport to hotel takes approx. 30 mins – cost approx. BHD 8.

Agenda – Monday, 21st April 2008

Arrival and tea/coffee			08:30
1	Saudi Aramco, Saleh M. Al-Dawas	Welcome	09:00
2	Saudi Aramco, Eric Lauritzen	Introductory speech from Chairman	09:15
3	OTM, Shreekant Mehta	HSE, agenda & introductions	09:30
4	Reslink, Dr Terje Moen	ICD and near well bore interaction	09:45
5	Baker Oil Tools, Paolo Gavioli	Compartmentalization and passive inflow control: system equalization in short low PI horizontal wells	10:15
Tea/ coffee			10:45
6	Halliburton, Geirmund Saetre	A comparative study of ICD designs	11:15
7	Weatherford, Keith Parry	ICD – technical excellence for reservoir optimization	11:45
8	Saudi Aramco, Drew Hembling	ICD experience	12:15
Lunch			12:45
9	Woodside, Deborah Ryan / Carina Blok	ICD experience in Woodside Energy	14:15
10	Petronas, Norsamsuriya Samsudin	ICD : PCSB experience	14:45
Tea/ coffee			15:15
11	Marathon, Tor Ellis	Marathon ICD experience	15:45
12	StatoilHydro, Bjørn Tore Samuelsen / Sigurd Hundsnes	Injector ICD for optimizing water injection on Stær - a part of the Norne Satellites development	16:15
13	OTM, Shreekant Mehta	Wrap up	16:45
Meeting end			17:00
Drink reception hosted by AlHaitam Company			17:00
Dinner hosted by Weatherford			18:30

Agenda – Tuesday, 22nd April 2008

Arrival and tea/coffee			08.30
14	OTM, Shreekant Mehta	Welcome & HSE	09:00
15	Apache, Joseph Graham	Application of ICD's in producers and injectors for a low API reservoir	09:15
16	BHPB, Nick Paris	Open discussion on ICD modelling led by Nick Paris	09:45
17	Petrobras, Roberto Motta / Mario Germino	Petrobras experience using ICD	10:15
Tea/ coffee			10.45
18	BP, Darren Napier	Lessons learned from BP's first ICD completion, North Sea, West of Shetlands	11:15
19	ExxonMobil, Oluwasegun Ogunsanya	MPN Uniform Flow Profile Campaign - Experience with Inflow Control Devices	11:45
20	Saudi Aramco, Byung Lee	PLT evaluation and design criteria	12:15
Lunch			12.45
21	Ziebel, Kristian Brekke	Use of a dynamic, coupled reservoir and wellbore simulator to design and optimize completions with static inflow control devices	14:15
22	AGR Petroleum Services, Stein Erik Berthelsen	Improved understanding of fluid flow in ICD wells utilizing steady-state simulators	14:45
Tea/ coffee			15.15
23	Reslink, Edmund Leung	Steady-State and Reservoir Simulation Approaches to Modelling Passive Inflow Control Devices	15:45
24	Baker Oil Tools, Benn Voll	A statistical approach to gas and water mobility control using passive inflow control and zonal isolation in highly heterogeneous formations	16:15
25	Saudi Aramco, Eric Lauritzen	Wrap up	16:45
Meeting end			17.15



Agenda – 23rd April 2008

Arrival and tea/coffee					08.30
Saudi Aramco	Welcome and introduction to the workshop				09.00
	Group 1 Drew Hembling	Group 2 Pete Smith	Group 3 Benn Voll	Group 4 Torger Skillingstad	09.20
Workshop - part I	Fractured carbonates	Mobility control	Layered reservoirs	Injectors	
Tea / coffee					10.35
Workshop - part II	Fractured carbonates	Mobility control	Layered reservoirs	Injectors	11.05
Lunch					12.15
Feedback + Q&A	Feedback to group - fractured carbonates				13.15
Feedback + Q&A	Feedback to group - mobility control				13.50
Tea / coffee					14.25
Feedback + Q&A	Feedback to group – layered reservoirs				14.55
Feedback + Q&A	Feedback to group – injectors				15.30
Saudi Aramco	Wrap up				16.05
Meeting end					16.25

Group 1: Fractured Carbonates Workgroup Leader: Drew Hembling

Issue:

Carbonate reservoirs will experience early water/gas breakthrough problems from bottom water aquifers, gas caps, or waterfloods due to permeability and mobility contrasts that exist in most horizontal carbonate wells. This uncertainty makes PICT beneficial in many carbonate reservoirs that are developed with horizontal wells. The pros and cons for using PICT verses openhole completions.

Outcome:

Identify challenges, selection criteria (Including KPI's), selection Criteria, design issues (Fractures vr no fractures) deployment best practices, and QA/QC issues for PICT usage in horizontal carbonate well completions.

Group 2: Zonal isolation and mobility control in PICT applications Workgroup Leader: Pete Smith

Issue:

Most wells where inflow control technology could be applied are to some degree heterogeneous. In order to maximize the effectiveness of any control methods the ability to segment the reservoir is very important in order to isolate areas of potential concern such as high perm streaks, fractures or otherwise non-productive areas. The annular movement of fines can lead to plugging, hotspots and erosion.

Outcome:

Identify options for isolation in PICT applications, discuss experiences and make recommendations for different well types.

Group 3: Use of PICT in layered reservoirs Workgroup Leader: Benn Voll

Issue:

Layered reservoirs may experience different times to water/gas breakthrough in the various layers. This uncertainty may make traditional PICT unfit for use and a different deployment strategy may provide the solution. Passive/Adaptive inflow control technology versus Intelligent Wells will be discussed as well as use of dynamic reservoir modeling to optimize the completion strategy.

Outcome:

Breakdown layered reservoirs into main categories and identify challenges/solutions/strategies for PICT in each category.

Group 4: Injectors Workgroup Leader: Torger Skillingstad

Issue:

Current injector well completion review
Trends in injector well drilling and completions
Approaches to improve injector well performance

Outcome:

A dream list for injector well completions utilizing PICT