## AAPG/EAGE Tight Reservoirs in the Middle East Workshop 2013

Abu Dhabi, United Arab Emirates 28 – 30 October 2013

ISBN: 978-1-5108-2829-2

## Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2013) by the European Association of Geoscientists & Engineers (EAGE) All rights reserved.

Printed by Curran Associates, Inc. (2016)

For permission requests, please contact by the European Association of Geoscientists & Engineers (EAGE) at the address below.

European Association of Geoscientists & Engineers (EAGE) PO Box 59 3990 DB Houten The Netherlands

Phone: +31 88 995 5055 Fax: +31 30 634 3524

eage@eage.org

## Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA

Phone: 845-758-0400 Fax: 845-758-2633

Email: curran@proceedings.com Web: www.proceedings.com

## TABLE OF CONTENTS

More Oil and Gas to be discovered in Mature Fields: A Case from Offshore Abu Dhabi	1
An Overview of Pre-Devonian Petroleum Systems – Unique Characteristics and Elevated Risks	2
Barry Katz, Fang Lin	
Integrating Seismic Stratigraphy and Forward Stratigraphic Modeling for Prediction of Source	
Rocks and Tight Carbonate Facies: A Case Study from the Callovian-Oxfordian of the Eastern Saudi	
Arabia	3
Abdel Fattah Bakhiet, David Z. Tang, Abdel Ghayoum Ahmed	
Seismic Characterization of Tight Gas Reservoirs; An Integrated Approach	4
Advanced Cutting Analysis to Define Reservoir Geochemistry (TOC, Thermal Maturity, etc.) and	
Elemental Analysis to determine Brittleness Index, and Wellbore Placement with Geosteering	5
Application Of Petroleum Exploration Concepts To Differentiate Between Source Rocks And	
Unconventional Reservoirs	6
B. Martin	
Characterization Of A Tight Chert Reservoir At The Precambrian-Cambrian Boundary: The Athel	
Silicilyte, South Oman Salt Basin	7
I. Rajaibi, C. Hollis	
Identification and Characterization of Producing Fractures in Naturally Fractured Reservoirs Using	
PIWD	8
M. Mazouz	
Drilling and Completion Fluids Design for Horizontal Well Drilling – Case History from Raudhatein	0
Field	9
Integrated Approach to Drilling and Completing a Multistage Well	10
S. Wilson	10
First Successful Wire Line And Extended Coring Through The Unconventional Reservoirs In UAE:	
Saved 50% Of Coring Time With World Record	11
G. Hegazy	11
Multi-Well Pad Completions - How Operations, Geographic Infrastructure, and Service	
Company/Operator Relationship Evolve in a Contemporary Efficiency Based Environment	12
C. Soileau	
Completing a Deep Unconventional Well with Wellbore Limitations in Saudi Arabia: Case Study	13
Connecting the Worlds of Hydraulic Fracturing and Production Evaluation	14
B. Vos	
Is It The Rock or The Frac? Shale Reservoir Quality and Production Performance	15
R. Miller	
A New Strategy to Explore Tight Oil / Gas Reservoirs – Fit for Purpose Acid Fracturing	16
G. Hegazy	
Hydraulic Fracture Optimization Model to Maximize Tight Gas Recovery	17
M. Rahman, J. Gomes	
Maturation of an HPHT Tight Gas Fields in North Oman	18
Q. Riyami, A. Briner, D. Elliott, H. Habsi, M. Lane, E. Lamers	
Unconventional Gas Resources: Economics & Developments	19
G. Yeung, M. Mian, A. Beaiji	
Author Index	