

International Field Exploration and Development 2015 (IFEDC 2015)

IET Conference Publications 674

**Xi'an, China
20 – 21 September 2015**

ISBN: 978-1-5108-2124-8

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© (2015) by the Institution of Engineering and Technology
All rights reserved.

Printed by Curran Associates, Inc. (2016)

For permission requests, please contact the Institution of Engineering and Technology
at the address below.

Institution of Engineering and Technology
P. O. Box 96
Stevenage, Hertfordshire
U.K. SG1 2SD

Phone: 01-441-438-767-328-328
Fax: 01-441-438-767-328-375

www.theiet.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

A NEW ALGORITHM TO QUANTIFY WATER CONING IN HYDRAULICALLY FRACTURED TIGHT OIL RESERVOIRS	1
<i>S. Kalam ; S. Alnuaim ; M. H. Rammay</i>	
A PRACTICAL APPROACH TO HISTORY-MATCHING WATER-RECYCLING IN WATERFLOOD RESERVOIR SIMULATION - METHOD AND CASE STUDIES IN SOUTH BELRIDGE DIATOMITE WATERFLOOD 2015IFEDC	6
<i>Z. M. Yang and A. H. Urdaneta</i>	
A SIMPLE-EFFECTIVE ANALYTICAL MODEL FOR MULTI-WELL GAS LIFT ALLOCATION OPTIMIZATION 2015IFEDC	16
<i>R. A. Fandi</i>	
A STUDY ON NONLINEAR FLOW LAW WITH DEFORMED MEDIA IN LOW PERMEABILITY RESERVOIR	23
<i>Yibo Xu ; Ningyu Yu ; Qinya Feng ; Hongjun Liu ; Qi Wang</i>	
CASING SETTING DEPTH OPTIMISATION BASED ON WELL CONTROL CONSIDERATIONS.....	27
<i>C. H. Lek</i>	
COMPUTATIONAL FLUID DYNAMICS SIMULATION OF THE EFFECT OF DRILL PIPE ROTATION ON CUTTINGS TRANSPORT IN HORIZONTAL WELLBORES USING A NEWTONIAN FLUID	33
<i>T. N. Ofei and S. A. Alhemyari</i>	
DESIGNING OF FRAC FLOW MODEL IN NATURALLY FRACTURE RESERVOIR FOR REDUCING WATER CONNING MECHANISM	41
<i>I. Haneef ; F. H. Memon ; S. Memon ; A. W. Khuwaja</i>	
DEVELOPMENT PREDICTION AND THEORETICAL ANALYSIS IN THE ULTRA-HIGH WATER CUT STAGE FOR WATER FLOODING SANDSTONE RESERVOIRS	48
<i>Chuanzhi Cui and Jianpeng Xu</i>	
ENERGY RESOURCES POTENTIAL OF METHANE HYDRATE AS POTENTIAL FUEL SOURCE	55
<i>A. Rauf ; H. Faisal ; M. Asadullah</i>	
ENHANCED ACCESS AND VISUALIZATION OF FIBER-OPTICS DATA USING A SIMPLE TRANSMISSION SYSTEM	60
<i>J. L. Serrano Acevedo ; O. C. Agudelo S ; E. G. E. Naveda ; P. Maguet ; F. D. Louie ; A. Azancot</i>	
ENHANCING CONDENSATE RECOVERY FROM GAS CONDENSATE RESERVOIRS THROUGH GAS INJECTION	67
<i>A. Esmaeili</i>	
EXPERIMENTAL RESEARCH ON HYDRAULIC FRACTURE INITIATION AND PROPAGATION BY CT SCANNING	73
<i>Sun Zhiyu ; Huang Zhiwen ; Liu Changyin ; Wu Chuan</i>	
EXPERIMENTAL AND NUMERICAL STUDY OF ZNO AND AL₂O₃ NANOPARTICLES EFFECT ON WETTABILITY ALTERATION IN HEAVY OIL RESERVOIR	79
<i>M. Tajmiri ; S. M. Mousavi Mirkalaei ; M. R. Ehsani</i>	
HYDRAULIC FRACTURE WITH FRACTURE-FACE DAMAGE SKIN OPTIMIZATION IN GAS CONDENSATE RESERVOIRS	86
<i>S. Ahmed and T. Zeeshan</i>	
LOCAL THERMAL EFFECT ON VAPOR EXTRACTION (VAPEX) FOR HEAVY OIL ENHANCED RECOVERY	91
<i>A. Esmaeili and M. A. Ayoub</i>	
PRACTICAL APPROACH TO DETERMINE FORMATION PERMEABILITY USING MDT TEST DATA.....	96
<i>Wu Ming-Lu ; Liu Pi-Yang ; Wang Jun ; Zhao Gao-Long ; Hao Jie</i>	
RANDOM RELIABILITY ANALYSIS OF OIL DERRICK BASED ON APDL SECOND DEVELOPMENT	100
<i>Han Dongying ; Luo Gen ; Wei Shimin ; Wei Qing ; Du Chunwang</i>	
RESEARCH AND APPLICATION OF DYNAMIC RESERVES APPRAISING METHODS IN SULIGE GAS FIELD UNDER DOWNHOLE THROTTLING PRODUCTION MODE	105
<i>Xu Yundong ; Lan Yifei ; Wu Yong ; Xie Shan ; Zhang Jianguo ; Fei Shixiang</i>	

SINGLE WELL MODEL CASE STUDY: THE APPLIED STUDY OF PORE GEOMETRY-STRUCTURE AND PERMEABILITY PREDICTION IN RESERVOIR CHARACTERIZATION	108
<i>Z. Muttaqin</i>	
STREAM-TUBE NUMERICAL SIMULATION FOR THE LINEAR HORIZONTAL-VERTICAL WELL PATTERN	116
<i>Yin Hong-Jun ; Fu Ying ; Zhang Hai-Xia ; Yang Chun-Cheng ; Fu Jing</i>	
STUDY OF FLOW MECHANISMS OF SHALE GAS AND ESTABLISHMENT OF GAS PRODUCTION MODEL	121
<i>S. Mishra and S. Soni</i>	
STUDY ON THE EFFECT OF SILICA FUME WITH LOW CALCIUM GEOPOLYMER PROPERTIES FOR OIL WELL CEMENTING	129
<i>M. Sugumaran and R. R. Suppiyah</i>	
SWEEP EFFICIENCY ESTIMATION FOR HORIZONTAL WELLS ARRANGED IN RECTANGULAR ARRAYS	138
<i>M. M. Khasanov ; A. P. Roschektaev ; A. M. Andrianova ; O. M. Fuks</i>	
THE METHOD OF DETERMINATION OF WATER-INDUCED HYDRAULIC FRACTURE'S GEOMETRY	142
<i>M. A. Trimanova and N. V. Dubinya</i>	
Author Index	