



CONTENTS

A Big Data Mining in Petroleum Exploration and Development

SHI Guangren, ZHU Yixiang, MI Shiyun, MA Jinshan, WAN Jun (1)

Analyze Horizontal Well Tests Using Reservoir Simulation Approach: A Case Study

James J. Sheng (9)

Full Waveform Modelling for Converted Waves Seismic Reflections in Mountainous and Marine Environment

Surender Singh, D. K. Gupta, Sanjeev Rajput (21)

Pre-Stack Seismic Inversion and Amplitude Versus Angle Modeling Reduces the Risk in Hydrocarbon Prospect Evaluation

Surender Singh, D. K. Gupta, Sanjeev Rajput (30)

Formation and Distribution of Tight Sand Gas Reservoirs in the Sichuan Basin, China

WANG Hongjun, BIAN Congsheng, XU Zhaohui, WANG Zecheng, LI Yongxin (40)

Temperature Dependent Behavior of Oil Dispersion System in Bulk and on the Metal Surface

Vladimir Sigitov, Aleksey Shakhvorostov, Evgeniy Blagikh, Rymbek Torgaev, Sarkyt Kudaibergenov (52)

Why Crude Oil Vapor Pressure Should Be Tested Prior to Rail Transport

Hannes Pichler, Josef Lutz (58)

The Study of Rock Body Damage Constitutive Model in Multiple Fracturing

WANG Chen, GAO Xuezhen, SUN Chengyan, WANG Tingting, ZHAO Wanchun (64)

Laboratory Study on the Polymer Flexible Cement Slurry System

YANG Yanyun (68)

Horizontal Well Bottom-Hole Pressure Drop Steam Flooding Numerical Calculation

SUN Qiji, WANG Xu (76)

Laboratory Study on Optimization of Oil-Soluble Cement Material

FU Huaigang (80)

Experimental Research on Placement Law of Injected Agent in General Water Shutoff for Horizontal Wells

LI Lifeng, ZHOU Fangxi, YUE Xiang'an (85)

The Numerical Simulation of Serious Flooded Area of Jin-45 Block

DUAN Xiaowei (91)

On the Basic Parameters of Pipe Measuring Device

V. F. Shayakberov, E. V. Shayakberov (96)

The Study and Application of Gray-Orthogonal Wavelet Network Forecasting Mode on Cementing Quality

WANG Tingting, ZHAO Wanchun, SUN Chengyan, ZHANG Huizhen, SHAO Keyong (99)

The Research of Oil and Gas Pipeline Corrosion and Protection Technology

LIU Xu, WANG Xiaoyu (102)

Fold Catastrophe Model of Fracture Propagation of Hydraulic Fracturing

ZHAO Wanchun, WANG Tingting, SUN Chengyan, WANG Chen, ZHANG Huizhen (106)

Quality Control for Weathered Rock Directional Drilling Pilot Hole Construction

ZHAO Peng, ZHANG Youzhu, ZHANG Haiyang (110)

Application of Conventional and Constant-Rate Mercury Injection on Microscopic Pore Structure Research

CHEN Lingyun, LIU Yikun, XIA Lihua, LIU Qian (116)

Pilot Test Study on Steam Flooding of Jin-45 Block Flooded Area

XIONG Mei (122)

Natural Gas Transmission Pipeline Temperature Drop Calculation

ZHAO Guangda, SUN Qiji, WANG Xiaohu, WANG Xu (127)