CONTENTS

Forecasting Petroleum Production Using the Time-Series Prediction of Artificial Neural Network
   BA Dan, SHI Guangren (1)

Simulating CO₂ and Viscosity Dissolver Assisted Steam Flooding Technology in Extra-Heavy Oil Reservoir by Using 3-D Physical Modelling
   WANG Chunzhi, LI Zhaomin, LI Songyan, LI Binfei, LIU Wei (7)

Influence of the Pore Structures on Stress Sensitivity of Tight Sandstone Reservoir
   REN Xiaoxia, LI Aifen, HE Bingqing, WU Songtao (13)

The Experimental Research of the Relationship Between Rock Surface Roughness and PDC Bit Wear
   XING Enhao, LI Shibin, ZHANG Ligang, GUAN Bing, WANG Yeqiang, QU Zongwei (19)

Study on Adaptability of Suizhong 36-1 Oilfield Acidizing Fluid System
   WANG Jigang, LIU Zhikai, ZHANG Hao, LIU Qingwang, FAN Zhenzhong (25)

New Method to Determine the Strength of Wax Deposits in Field Pipelines
   BAI Chengyu, ZHANG Jinjun (31)

The Application of Fuzzy Clustering Method in the Division of Reservoir Flow Unit
   SONG Kaoping, WANG Di (37)

Experimental Study of Fracture Propagation Mechanisms by Oriented Perforation Technology for SRV Fracturing
   CHANG Xin, WANG Huaidong, CHENG Yuanfang, HAN Xiuting (44)

Research on Low Density Cementing Technology of Coalbed Methane Well
   WANG Chufeng, WANG Ruihe, YANG Huanqiang, WANG Fangxiang (50)

Research of Seepage Flow Law of Tight Oil Reservoir in North Songliao Basin
   SHI Xiaodong, AI Chi, ZHAN Jianfei, XIAO Qianhua, HU Chaoyang (58)

Study on Unproppant Waterfrac Flow Conductivity Mechanism and Test Method
   WANG Li, YAN Tie, WANG Hongliang (64)

Formation Selection Criteria for Volume Fracturing in Chang 7 Tight Reservoir in the Ordos Basin
   YUAN Huayu, CHENG Yuanfang, LI Youzhi (67)

Application of Support Vector Machines to a Small-Sample Prediction
   MENG Minghui, ZHAO Chuanfeng (72)
The Determination of Acid-Rock Reaction Kinetic Equation With Deep-Penetration and Low-Damage Acid
WANG Jigang, XIN Yongle, WANG Shuyi, WANG Hongbin, MA Decheng (76)

Damage Constitutive Model of Mudstone Creep Based on the Theory of Fractional Calculus
ZENG Jia, ZHANG Jun (83)

Experimental Study on the Down-Speed of Conductor Pipe Influenced by Jetting Displacement in Deepwater Drilling
ZHANG Hongkun, GUO Yanli, FAN Zhi, HUANG Mingzhao, WANG Lingxiao, CHEN Jiahui, SUN Baojiang (88)

Mechanical Calculation for Workover String in Highly-Deviated and Horizontal Well
LIU Hu, LIU Xingyi, YOU Yanrui (93)

Changyuan Periphery Oilfield Economic Evaluation Method of Waterflood Potential Exploitation Measures
REN Jiawei, ZHOU Xisheng, ZHANG Dong (98)

Research on the Bottom Hole Flow Field of PDC Bit
ZHANG Hui (103)

Study on Small Layers Producing Condition by Using the Method of Fuzzy Comprehensive Evaluation
SONG Jingyang, FANG Yanjun, ZHAO Chunsen, WANG Guangjie (108)

Discussions of General Methods for Measurement and Monitoring of Corrosion in the Oil & Gas Industry
ZHANG Lu (111)

Calculation Method for Ignition Temperature and Stable Combustion Temperature of the In-Situ Combustion Process
SHI Guang, LIU Yongjian (117)

Evaluation on Coalbed Methane Favourable Zone of Jixi Basin
Wang Haibo (120)

Experimental Study on Borehole Collapse
TAO Lin (126)

Analysis and Experimental Study on Acoustic Emission Source Characteristics of Corrosion Process in Atmospheric Vertical Tank Bottom
QIU Feng, DAI Guang, ZHANG Mingyu, LI Chengzhi (130)

Analysis of Synthesis of General-Purpose Phenolic Resin and Its Curing Mechanism
LIU Weili (135)

Foundation of the Reaction Mechanism of Deep Penetration and Low-Damage Acidizing Fluid
WANG Jigang, YIN Rujia, LIU Qingwang, FAN Zhenzhong (140)

Drilling Engineering Design of Well WT-1
YU Chengpeng (147)

Research on Sealing Technology of Waste Well Cement Slurry
LIU Yongsheng (152)