

## CONTENTS

#### Economic Evaluation of Waterflood Using Regression and Classification Algorithms

ZHANG Qian, SHI Guangren (1)

A New Waterflooding Characteristic Curve for Naturally Fractured Sandstone Reservoirs HAN Shugang, ZHAO Chuanfeng (9)

#### Morphological and Thermo-Mechanical Characterization of Open-Cell Spray Polyurethane Foamed Wall Insulation Modified With Cellulose Fiber

Mustafa Khazabi, Mohini Sain (13)

- Under the Non-Uniform Ground Stress Condition for Simulating the Casing Deformation AI Chi, GAO Changlong, YU Miaochuan, YANG Ming (22)
- Study on Impact of Compositional Gradient on Volatile Oil Reservoir Development WANG Wendong, DING Shengjun, HE Xinfei, LÜ Yuan, JIN Xiaolin (27)
- **Experimental Study on the Anisotropy of the Tensile and Shearing Strength of Coal Rock** *CUI Yueming, LI Yuwei (33)*
- Finite Element Simulation of Casing Shearing Impairment in Different Cementing Method CUI Yueming (39)

### **Investigation on Actuating Pressure Gradient of Low Permeability Reservoir** *ZHAO Chunsen, WU Didi, TAO Bo (43)*

### Study of Mechanisms of Enhanced Oil Recovery by Multi-Thermal Fluids

ZHANG Fengyi, XU Wankun, LIU Xiaohong (46)

## Research on Acoustic Emission Signal Acquisition and Acoustic Source Identification of Tank Floor Corrosion

QIU Feng, DAI Guang, ZHANG Ying, ZHAO Yongtao, LI Chengzhi (54)

## Investigation on Percolation Theory and Optimization Method in Low Permeability Reservoir Injection-Production Pattern on the Condition of Fracturing

SONG Wenling, ZHAO Chunsen, XIE Zhiwui (60)

#### A New Gas Injection System for Ultra-Thick Metamorphic Rock Buried Hill Reservoirs

XU Ning, HE Chengchen, XU Wanchen, LI Ruoyi, SI Yong, XU Ping (64)

#### Research on the Initiation Mechanism of Artificial Fracture in the Fractured Reservoir

LI Siqi, YAN Tie, LI Wei, ZHANG Yang, KOU Hongbin (70)

#### Effect of Eccentricity on Annulus Pressure of Aerated Drilling

ZHANG Nan, BI Xueliang, CHEN Xun, YU Xiaowen, LIU Shanshan (74)

#### **Research Status of Oil Well Casing Damage Image Recognition Technology**

WANG Changjin, LI Yinpeng, HA Mingda (79)

#### Water Drive Characteristic Curve Theory of Low Permeability Reservoir

ZHAO Chunsen, TAO Bo, WU Didi (83)

## Calculating Method for the Axial Force of Washover String During Extracting Casing in Directional Well

Ai Chi, Yu Fahao, Feng Fuping, Yan Maosen, Wei Ting (86)

# The Application of Performed Particle Gel for Water Shutoff and Flooding in Severe Heterogeneous Reservoir

QIU Weiqing (92)

#### Experimental Study of Downhole Shock Absorber Based on the Similarity Theory

ZHANG Hongning, GUANG Zhichuan, WANG Heng, XU Yuqiang (98)

#### Low Cycle Fatigue of Class G Well Cement

TAO Jianwen, SONG Kaoping, BAI Mingxing, SUN Ning (103)

### Analysis of Thermal Recovery Horizontal Well Drilling Technology in Gudong Nine District

QIN Guanghui, GAO Xiangsen, YAN Zhenlai (111)

#### **Optimization of Drilling Engineering Design and Construction for Anshun 1 Well**

LI Peili (115)

## Trajectory Control Technology of the Shallow Layer Cluster Horizontal Well in Western Margin of the Junggar Basin

YANG Chunxu (119)

#### Research on Non-Linearity Percolation Characteristics in Tight Sandstone Gas Reservoir

WANG Fengjiao, LIU Yikun, WANG Yongping, LIANG Shuang (127)