

目 次

· 专论 ·

- 国内钻井液处理剂研究进展、现状分析与发展建议 王中华 1
纳米纤维素的制备及在钻井液中的应用研究进展 赵雄虎, 王灿, 肖喆, 张喜, 赵月琴 20

· 钻井液 ·

- 鄂尔多斯盆地东缘海陆过渡相页岩气层应力敏感实验 李兵, 宿洗逸, 朱卫平, 陈明君, 何朋勃, 康毅力, 赖哲涵 30
漏失裂缝内封堵层演化规律及颗粒特征行为的可视化实验研究 蒲磊, 谢凌志, 徐鹏, 陈欢, 许明标, 汪帮哲 41
顺北地区破碎性碳酸盐岩地层钻井液井壁稳定技术 刘雄伟, 范胜, 管金田, 贺垠博 51
渤海盆地锦州 25-1 区块中部泥岩地层井壁失稳机理及钻井液对策 耿立军, 刘峰, 江鹏, 董新柔, 刘伟, 李博佳 58
适用于新疆沙排 9 组地层抗高温新型离子液体抑制剂及抑制机理 高世峰, 屈元治, 黄宏军, 任晗, 贾海东, 刘敬平, 贾寒 66
钻井液用可降解聚合物暂堵剂的研制 田智元, 齐舵, 王海波, 张馨鹏, 郭宝华, 徐军 74
高密度高性能水基钻井液在巴基斯坦 ADHI 区块的研究与应用 黎凌, 周楚翔, 吉永忠, 张光锦, 吴刚 82
考虑盐浓度的天然气水合物三维相平衡曲面热力学预测模型 张更, 李文拓, 黄洪林, 罗鸣, 马传华, 吴艳辉, 李军 90

· 固井液 ·

- 抗高温固井用悬浮稳定型降失水剂的制备与应用 杜宇斌, 刘子帅, 吕斌, 赵维超, 周崇峰, 樊荣华 102
有机膦酸盐缓凝剂异常增稠油井水泥浆作用机理 邹亦玮, 代丹, 王义昕, 耿晨梓, 朱思佳, 姚晓 110

· 压裂液与酸化液 ·

- 低腐蚀自生热冻胶压裂液流变性能及反应动力学研究 李芋池, 罗明良, 战永平, 樊乔, 吕元佳, 赵春光 117
滑溜水压裂返排液在钻井液中资源化利用 刘怀珠, 赵康宁, 陈东, 张超, 常晓峰, 张洁, 张望远, 张帆 127

· 完井液 ·

- 一种单步解除有机沉积及无机垢的单相酸体系 崔波, 荣新明, 冯浦涌, 姚二冬, 周福建, 王顺 134

Drilling Fluid & Completion Fluid

Vol. 42, No. 1, Jan. 2025

CONTENTS

·FORUM·

Research Progress, Current Situation Analysis and Development Suggestions of Drilling Fluid Treatment Agents in China	WANG Zhonghua	1
.....		
Research Progress in Preparation of Nanocellulose and Its Application in Drilling Fluids	ZHAO Xionghu, WANG Can, XIAO Zhe, ZHANG Xi, ZHAO Yueqin	20
.....		

·DRILLING FLUID·

Stress Sensitivity Experiment on Shale Gas Formations in Marine-Continental Transitional Facies in Eastern Margin of Ordos Basin	LI Bing, NING Xianyi, ZHU Weiping, CHEN Mingjun, HE Pengbo, KANG Yili, LAI Zhehan	30
.....		
Visual Experimental Study on Evolution and Particle's Characteristic Behavior of Plugging Layers inside Fractured Loss Zones	PU Lei, XIE Lingzhi, XU Peng, CHEN Huan, XU Mingbiao, WANG Bangzhe	41
.....		
Wellbore Stability Technology of Fractured Carbonate Formation Drilling Fluid in Shunbei Region	LIU Xiongwei, FAN Sheng, GUAN Jintian, HE Yinbo	51
.....		
Mechanisms of Borehole Wall Destabilization in Drilling Shale Formations in the Central Part of Block Jinzhou-25-1 in Bohai Basin and Drilling Fluid Countermeasures	GENG Lijun, LIU Feng, GANG peng, DONG Xinrou, LIU Wei, LI Bojia	58
.....		
Investigation of High-Temperature Resistant Ionic Liquid Inhibitors for Xinjiang Shapai Group 9 and Their Inhibition Mechanism	GAO Shifeng, QU Yuanzhi, HUANG Hongjun, REN Han, JIA Haidong, LIU Jingping, JIA Han	66
.....		
Development of a Biodegradable Polymer Temporary Plugging Agent for Drilling Fluid	TIAN Zhiyuan, QI Duo, WANG Haibo, ZHANG Xinpeng, GUO Baohua, XU Jun	74
.....		
High Density and High Performance Drilling Fluid System Research and Application at Pakistan North Region ADHI Block	LI Ling, ZHOU Chuxiang, JI Yongzhong, ZHANG Guangjin, WU Gang	82
.....		
A Thermodynamic Model for Predicting 3D Phase Equilibrium Surface of Natural Gas Hydrates Considering Salt Concentration	ZHANG Geng, LI Wentuo, HUANG Honglin, LUO Ming, MA Chuanhua, WU Yanhui, LI Jun	90
.....		

·CEMENTING FLUID·

Preparation and Application of a High Temperature Suspension Stabilizing Filter Loss Reducer for Cement Slurries	DU Yubin, LIU Zishuai, LYU Bin, ZHAO Weichao, ZHOU Chongfeng, FAN Ronghua	102
.....		
Mechanisms of Organic Phosphonate Retarders to Abnormally Thicken Oil Well Cement	ZOU Yiwei, DAI Dan, WANG Yixin, GENG Chenzi, ZHU Sijia, YAO Xiao	110
.....		

·FRACTUREING FLUID & ACIDIZING FLUID·

Study on Rheology and Reaction Kinetics of Low Corrosion Self-Heating Gelling Fracturing Fluids	LI Yuchi, LUO Mingliang, ZHAN Yongping, FAN Qiao, LYU Yuanjia, ZHAO Chunguang	117
.....		
Recycling in Drilling Fluids of Flowback Fluids from Slick Water Fracturing Operation	LIU Huaizhu, ZHAO Kangning, CHEN Dong, ZHANG Chao, CHANG Xiaofeng, ZHANG Jie, ZHANG Wangyuan, ZHANG Fan	127
.....		

·COMPLETION FLUID·

A Single Phase Acid for One Step Removal of Organic Deposition and Inorganic Scale	CUI Bo, RONG Xinning, FENG Puyong, YAO Erdong, ZHOU Fujian, WANG Shun	134
.....		