

中文核心期刊
中国科技核心期刊
RCCSE中国核心学术期刊

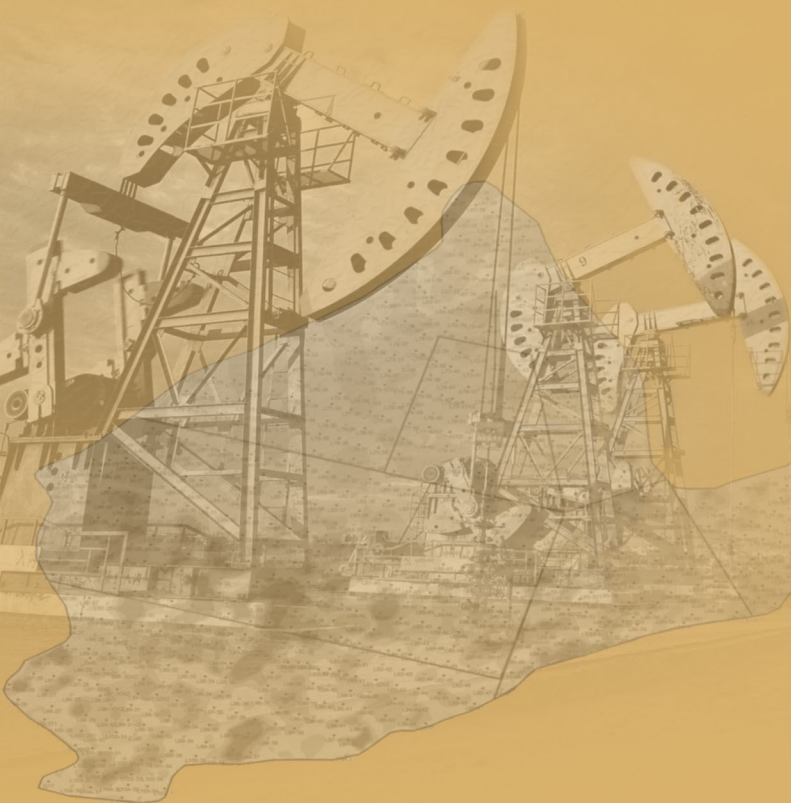
ISSN 1673-064X
CN 61-1435/TE



西安石油大学学报

JOURNAL OF XI'AN SHIYOU UNIVERSITY

自然科学版
Natural Science Edition



VOL.38
2023 **2**



ISSN 1673-064X

CN 61-1435/TE

西安石油大学学报 (自然科学版) · 双月刊

XI'AN SHIYOU DAXUE XUEBAO(ZIRAN KEXUE BAN)

2023年3月25日出版 第38卷第2期(总第199期)

目次

【石油地质与勘探】

- 花场气田构造控油气作用及油气藏类型 付景龙,丁文龙,汪博,孙守刚,甘运才,王丹,孙津,肖伟,王濡岳(1)
- 辽西低凸起 JZ 油田沙二段古地貌特征及其对沉积的控制作用 刘宗宾,程奇,刘洪洲,房娜,高红立(9)
- 渤海海域新近系薄互层砂体沉积特征及定量预测 曹龙,李超,秦润森,穆朋飞,张鹏志(16)
- 地震拓频技术在涠洲 6-12 油气田薄储层刻画中的应用 张益,魏峰,查玉强,袁丙龙,隋波,张宇航(25)
- 吴起北部长 6 段沉积微相特征及其对储层非均质性的影响 赵辉,杨学武,刘玉峰,王贵文,莫磊,邹胜林,赵晓红,郭愿刚,惠磊(35)
- 南海北部深水区白云凹陷中深层油气成藏过程初探 张忠涛,王卓越,陈聪,吴哲,陈淑慧,翟普强(43)
- 基于梯度惩罚-生成对抗神经网络的页岩三维数字岩心重构 李秉科,聂昕,朱林奇,王晨晨,林伟,韩登林(53)

【油气田开发与开采】

- 高温高盐条件下调剖用酚醛冻胶的研制 吕琦,葛际江,郭洪宾,陈晋,范家伟,毛源(61)
- 吉木萨尔页岩水力压裂后渗吸采油潜力分析 廖凯,李俊杰,谢勃勃,祝健(68)
- 低流量稠油油藏启动机制及主控因素实验研究 张戈,邢振华,张伟,丁步杰,吴飞鹏(77)
- 水驱油藏注采受益关系及注水效果定量评价 吴明录,陈大伟,李涛,王小剑,赵金玲(84)
- 基于机器学习的油水层解释新方法——以新安边油田南部长 7 油层组为例 陶静,张宝辉,杨博,周剑飞,胡晓雪,卜广平,路向伟,屈乐(89)
- 双层套管射孔产能预测模型数值模拟研究 辛雪松,闫新江,文敏,张永涛,毕刚,齐致远(96)

【石油机械设备及自动化】

- 基于瞬变电磁偏心阵列的套管开窗侧钻井开窗轨迹与窗口形态检测方法 杨玲,党瑞荣,党博,刘长赞,郭瑞,盛磊祥(105)
- 基于机器学习算法的 CO₂ 腐蚀速率预测 彭龙,韩国庆,鄢书豪,马赫,马少云(113)
- 气举柱塞波浪形紊流槽流动性能强化研究 崔璐,田柯,庞永策,程嘉瑞,李臻(122)
- 一种中值滤波快速系统的 FPGA 实现 穆向阳,雷妍,王闻博(128)

【油气加工与储运】

- 胶凝原油临界损伤屈服应力计算模型研究 肖铁全,张健,郭欣悦,于茜,杨红(135)

CONTENTS

· Geology and Exploration ·

Control Action of Structure on Oil and Gas and Types of Oil and Gas Reservoirs in Huachang Gasfield

FU Jinglong, DING Wenlong, WANG Bo, SUN Shougang, GAN Yuncai, WANG Dan, SUN Jin, XIAO Wei, WANG Ruyue (1)

Paleogeomorphologic Characteristics of 2nd Member of Shahejie Formation of JZ Oilfield in Liaoxi Low Uplift and Its Control On Sedimentation

LIU Zongbin, CHENG Qi, LIU Hongzhou, FANG Na, GAO Hongli (9)

Sedimentary Characteristics and Quantitative Prediction of Neogene Thin Interbed Sand-bodies in Bohai Sea Area

CAO Long, LI Chao, QIN Runsen, MU Pengfei, ZHANG Pengzhi (16)

Application of Seismic Extension Frequency Technology in Thin Reservoir Characterization of Weizhou 6-12 Oil /Gas Field

ZHANG Yi, WEI Feng, ZHA Yuqiang, YUAN Binglong, SUI Bo, ZHANG Yuhang (25)

Characteristics of Sedimentary Microfacies of Chang 6 Member in Northern Wuqi Area and Its Effect on Reservoir Heterogeneity

ZHAO Hui, YANG Xuewu, LIU Yufeng, WANG Guiwen, MO Lei, ZOU Shenglin, ZHAO Xiaohong, GUO Yuangang, HUI Lei (35)

Discussion on Hydrocarbon Accumulation Process in Middle-Deep Layers of Baiyun Sag in Deep Water Area of the Northern South China Sea

ZHANG Zhongtao, WANG Zhuochao, CHEN Cong, WU Zhe, CHEN Shuhui, ZHAI Puqiang (43)

Reconstruction of 3D Shale Digital Core Based on Generative Adversarial Neural Networks with Gradient Penalty

LI Bingke, NIE Xin, ZHU Linqi, WANG Chenchen, LIN Wei, HAN Denglin (53)

· Development and Exploitation of Oil and Gas Fields ·

Development of Phenolic Gel for Profile Control under High Temperature and High Salt Condition

LYU Qi, GE Jijiang, GUO Hongbin, CHEN Jin, FAN Jiawei, MAO Yuan (61)

Study on Imbibition Oil Recovery Potential of Jimusar Shale After Hydraulic Fracturing

LIAO Kai, LI Junjie, XIE Bobo, ZHU Jian (68)

Experimental Study on Start-up Mechanism and Main Controlling Factors of Low-Mobility Heavy Oil Reservoir

ZHANG Ge, XING Zhenhua, ZHANG Wei, DING Bujie, WU Feipeng (77)

Quantitative Evaluation of Injection-Production Relation and Water Injection Effect in Water Flooding Reservoir

WU Minglu, CHEN Dawei, LI Tao, WANG Xiaojian, ZHAO Jinling (84)

A New Method for Oil/Water Layer Interpretation Based on Machine Learning: Taking Chang 7 Oil Layer Group in South of Xin'anbian Oilfield as an Example

TAO Jing, ZHANG Baohui, YANG Bo, ZHOU Chuangfei, HU Xiaoxue, PU Guangping, LU Xiangwei, QU Le (89)

Numerical Simulation of Productivity Prediction Model for Double Casing Perforation

XING Xuesong, YAN Xinjiang, WEN Min, ZHANG Yongtao, BI Gang, QI Zhiyuan (96)

· Petroleum Mechanical Equipment and Its Automation ·

Eccentric Array-based Borehole Transient Electromagnetic System for Trajectory and Window Shape Detection in

Sidetracking Well

YANG Ling, DANG Ruirong, DANG Bo, LIU Changzan, GUO Rui, SHENG Leixiang (105)

Prediction of CO₂ Corrosion Rate Based on Machine Learning Algorithms

PENG Long, HAN Guoqing, WU Shuhao, MA He, MA Shaoyun (113)

Study on Enhancement of Wavy Turbulent Groove of Gas-Lifting Plunger to Gas Lifting Performance

CUI Lu, TIAN Ke, PANG Yongce, CHENG Jiarui, LI Zhen (122)

Implementation of a Median Filtering Acceleration System Using FPGA

MU Xiangyang, LEI Yan, WANG Wenbo (128)

· Processing, Storage and Transportation of Petroleum ·

Study on Critical Damage Yield Stress Calculation Model of Gelled Crude Oil

XIAO Tiequan, ZHANG Jian, GUO Xinyue, YU Qian, YANG Hong (135)