

西安石油大学学报  
(自然科学版)

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

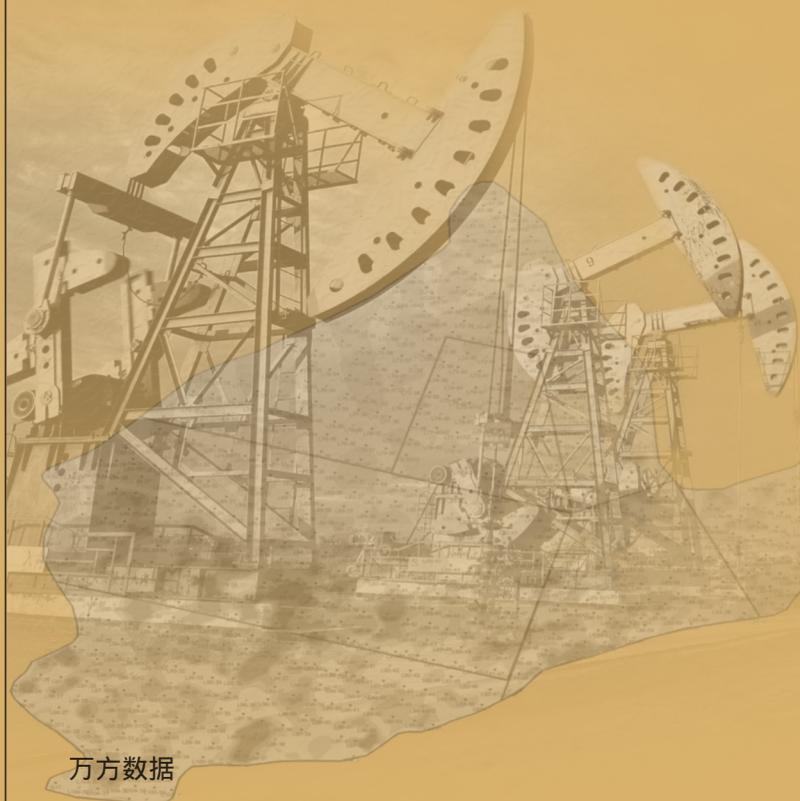
JOURNAL OF XI'AN SHIYOU UNIVERSITY

自然科学版  
Natural Science Edition

第三十四卷

第一期

二〇一九年一月



**VOL.34**  
**2019** **1**

万方数据



(国内外公开发刊)

# 西安石油大学学报 (自然科学版) · 双月刊

XI'AN SHIYOU DAXUE XUEBAO(ZIRAN KEXUE BAN)

2019年1月25日出版 第34卷第1期(总第174期)

## 目 次

### 【地质与勘探】

- 论油气本源共同体——老油区发现新储量的探索思路 林隆栋,陶士振,袁学诚,李玉琪,陈伟立(1)
- 苏里格气田苏36区块盒8—山1段沉积特征 李森,张金亮,王金凯,侯锡鹏,柳慧敏(13)
- 鄂尔多斯盆地东缘临兴地区上古生界烃源岩特征及其对天然气成藏的控制作用 宋平,郭明强,赵靖舟,李军(22)
- 渤海SZ油田非主力油层构型解剖及挖潜实践 田博,刘宗宾,刘超,贾晓飞,王颖超(29)
- 嘉荫断陷白垩系沉积特征与石油地质条件 许杰,朱建伟,胡菲,周永恒(36)
- 准格尔盆地中部1区三工河组低渗透储层成因机制 张江华,相鹏(43)
- 白豹油田长6油藏储层岩矿及孔隙结构特征 李博克,谭成仟(50)
- 莱州湾凹陷东缘走滑断裂带特征及沉积响应 汪晶,刘睿,张海义,王孝辕,郭轩(55)

### 【油气田开发与开采】

- 延长油田化子坪油区长6油层CO<sub>2</sub>驱油与封存潜力分析 赵习森,杨红,陈龙龙,吴波,康宇龙,江绍静,汪杰,汤瑞佳,王宏(62)
- 裂缝性油藏注水井动态渗吸数学模型及特征分析 李蒙蒙,李琪,林加恩,毕刚(69)
- 基于裂缝尖端应力强度因子的裂缝穿层行为分析 李浩哲,姜在炳,范耀(76)
- 乳化能力对低渗透油藏表面活性剂驱油效果的影响 崔鹏兴,胡占群,奥洋洋,贺杰(83)
- 硫酸钡阻垢剂的制备及性能评价 李洪建,王苗苗,唐汉林,曾丽瑶,秦芳(89)
- 火驱尾气中H<sub>2</sub>S与O<sub>2</sub>化学反应热力学研究 梁建军,王苏雯,陈龙,王寿喜,王勇(95)
- 长效抗剪切聚合物驱油剂的合成及性能 胡科,张健,薛新生,陈文娟,华朝,施雷庭(100)
- 水乳环氧树脂对水硬性凝胶工作液性能的影响 黎凌,张宗谭,周蓓宁,袁志平,李枝林(108)
- 一株采油用嗜热特基拉芽孢杆菌厌氧生长代谢研究 林军章,冯云,谭晓明,王静,汪卫东,李希明(115)

### 【石油机械设备及其自动化】

- 基于层次分析的油库区静电风险模糊综合评价方法 刘金玉,王殿生,胡玉琴(120)

## CONTENTS

### · Geology and Exploration ·

- On the Community of Oil and Gas Sources; The Most Realistic Exploration Method to Discover New Reserves in an Old Oilfield  
*LIN Longdong, TAO Shizhen, YUAN Xuecheng, LI Yuqi, CHEN Weili* ( 1 )
- Sedimentary Characteristics of He 8 Member – Shan 1 Member in Su 36 Block of Sulige Gas Field  
*LI Miao, ZHANG Jinliang, WANG Jinkai, HOU Xipeng, LIU Huimin* ( 13 )
- Characteristics of Upper Paleozoic Source Rocks in Linxing Area, Eastern Margin of Ordos Basin and Their Controlling Effect on Accumulation of Natural Gas  
*SONG Ping, GUO Mingqiang, ZHAO Jingzhou, LI Jun* ( 22 )
- Configuration Analysis and Potential Tapping Practice of Non-Main Reservoirs in SZ Oilfield, Bohai Bay  
*TIAN Bo, LIU Zongbin, LIU Chao, JIA Xiaofei, WANG Yingchao* ( 29 )
- Sedimentary Characteristics and Petroleum Geological Conditions of Cretaceous in Jiayin Fault Depression  
*XU Jie, ZHU Jianwei, HU Fei, ZHOU Yongheng* ( 36 )
- Genetic Mechanisms of Low-permeability Reservoir of Sangonghe Formation in Block 1 of Central Junggar Basin  
*ZHANG Jianghua, XIANG Peng* ( 43 )
- Characteristics and Pore Structure of Chang 6 Reservoir in Baibao Oilfield, Ordos Basin  
*LI Boke, TAN Chengqian* ( 50 )
- Characteristics of Strike Slip Fault Zone in the Eastern Margin of Laizhou Bay Sag and Their Sedimentary Response  
*WANG Jing, LIURui, ZHANG Haiyi, WANG Xiaoyuan, GUO Xuan* ( 55 )

### · Oil and Gas Exploitation ·

- Analysis of CO<sub>2</sub> Flooding and Storage Potential of Chang 6 Reservoir in Huaziping Area of Yanchang Oilfield  
*ZHAO Xisen, YANG Hong, CHEN Longlong, WU Bo, KANG Yulong, JIANG Shaojing, WANG Jie, TAN Ruijia, WANG Hong* ( 62 )
- Dynamic Imbibition Mathematical Model of Water Injection Wells in Fractured Reservoirs and Analysis of Its Characteristics  
*LI Mengmeng, LI Qi, LIN Jiaen, BI Gang* ( 69 )
- Analysis of Crack Across-layer Extension Behavior Based on Stress Intensity Factor at Crack Tip  
*LI Haozhe, JIANG Zaibing, FAN Yao* ( 76 )
- Effect of Emulsifying Ability of Surfactant on Surfactant Oil Displacement Result in Low Permeability Reservoirs  
*CUI Pengxing, HU ZHANqun, AO Yangyang, HE Jie* ( 83 )
- Preparation and Performance Evaluation of Barium Sulfate Scale Inhibitor  
*LI Hongjian, WANG Miaomiao, TANG Hanlin, ZENG Liyao, QIN Fang* ( 89 )
- Thermodynamics of Chemical Reaction between H<sub>2</sub>S and O<sub>2</sub> in In-situ Combustion Exhaust  
*LIANG Jianjun, WANG Suwen, CHEN Long, WANG Shouxi, WANG Yong* ( 95 )
- Synthesis and Properties of Long-term Shear Resistance Polymer Oil-displacing Agent  
*HU Ke, ZHANG Jian, XUE Xinsheng, CHEN Wenjuan, HUA Zhao, SHI Leitong* ( 100 )
- Influence of Waterborne Epoxy Resin Emulsion on Performance of Hydrogel Working Fluid  
*LI Ling, ZHANG Zongtan, ZHOU Xiaoning, YUAN Zhiping, LI Zhilin* ( 108 )
- Study on Anaerobic Growth Metabolism of a Bacillus Tequilensis Strain Used for Oil Recovery  
*LIN Junzhang, FENG Yun, TAN Xiaoming, WANG Jing, WANG Weidong, LI Ximing* ( 115 )

### · Petroleum Mechanical Equipment and Its Automation ·

- Fuzzy Comprehensive Evaluation of Electrostatic Risk in Oil Depot Based on Analytic Hierarchy Process  
*LIU Jinyu, WANG Diansheng, HU Yuqin* ( 120 )