



## 目次

2021 年 第 14 卷 第 1 期  
(季刊)

总第 50 期  
2021 年 3 月 25 日出版  
(2008 年创刊)

主 编: 陈 刚

主管单位: 中国石油化工集团有限公司

主办单位: 中国石油化工股份有限公司  
上海海洋油气分公司  
中国石油化工股份有限公司  
江苏油田分公司

编辑出版: 《复杂油气藏》编辑部  
江苏省扬州市文汇西路 1 号  
电话: 0514-87762115, 87762125  
邮政编码: 225009  
网址: <http://www.fzyqc.net>  
电子信箱: [fzyqc@vip.163.com](mailto:fzyqc@vip.163.com)

发行范围: 公开发行

国内发行: 本刊发行部

国外发行: 中国国际图书贸易总公司

印刷装订: 扬州市机关彩印中心

国际标准连续出版物号: ISSN 1674-4667

国内统一连续出版物号: CN31-2019/TQ

定价: 20 元/本

责任编辑: 韩 枫  
英文编辑: 谢 葵  
装帧设计: 韩 枫

### 油气勘探

- 苏北盆地阜二、四段鱼化石及其沉积环境……………  
……………管永明, 张江永, 刘成杰, 段宏亮, 王红伟, 谢献德 1
- 四川盆地超深地震大剖面勘探及深部地质结构研究……………  
……………胡 峰, 梁顺军, 张晓斌, 彭业君, 杨智超, 龙思萍, 王中海 9
- 构造运动和岩性控制下的基岩裂缝识别与预测方法研究……………  
……………周 妍, 孙海霞 15
- 纹理属性及模式识别在沉积相研究中的应用……………岳喜伟, 余海涛 23
- 南阳凹陷魏岗地区井震一体化构造重构与滚动勘探实践……………  
……………朱煜华, 张晓亮, 刘盛阳, 王树芳, 贾艳霞, 庞 萌 27
- Q 偏移技术在三河次凹地震资料处理中的应用研究……………  
……………吴千万, 庞全康, 管文华, 侯海水 32
- 地化录井定量解释方法在南海东部海域西江凹陷的应用……………  
……………曹孟贤, 蒋钱涛, 向 超 36

### 油气开发

- 基于数据挖掘技术的碎屑岩岩性识别方法及应用……………  
……………苗 涛, 王凤琴, 高利军, 乔林胜, 段涛涛 39
- 断层精细描述在老油田剩余油挖潜中的应用……………  
……………孙秀会, 黄 飞, 盖广点, 刘金华, 匡晓东 45
- 厚层油藏高含水期基于剩余油的分层精细注水……………  
……………张 静, 蔡 晖, 刘 斌, 范 晶, 郑 彬 51
- 变黏度聚合物驱注入参数优化研究与应用……………  
……………魏 俊, 吴雅丽, 张志军, 王宏申, 李百莹, 尹 鹏 57
- L 油藏蒸汽吞吐后期剩余油分布研究……………王 腾, 李康康, 王 剑 61
- 气顶油藏油气相渗曲线反演方法及应用……………  
……………雷 源, 杨 明, 周凤军, 王 雨, 李 扬 69
- 低渗透砂岩油藏改进水驱曲线含水率预测方法……………侯 爽, 王 威 75

### 油气工程

- 丛式井施工顺序优化探讨……………  
……………谢 鑫, 丁少华, 王进涛, 窦正道, 徐 浩 80
- 许 X36A 下扬子中深探井钻井施工技术……………陈小元, 严 忠 85
- 一种新型可溶解桥塞的研究与应用……………纪 松 90
- 连续油管拖动喷射酸化在普光高含硫气田的应用……………王建青 94
- 水力自动调压装置在非均质油藏的应用……………郭宜民 98
- 厄瓜多尔 ITT 区块岩屑回注技术……………严 忠, 文建勋, 王 委 102

# COMPLEX HYDROCARBON RESERVOIRS

Vol.14 No.1 Mar.25,2021

## CONTENTS

### •Oil & Gas Exploration•

- Fossil fishes of the second and fourth members of Funing Formation in Subei Basin and their sedimentary environment  
.....*GUAN Yongming, ZHANG Jiangyong, LIU Chengjie, DUAN Hongliang, WANG Hongwei, XIE Xiande* (1)
- Ultra-deep layers seismic profile exploration and study on deep geological structure in Sichuan Basin.....  
.....*HU Feng, LIANG Shunjun, ZHANG Xiaobin, PENG Yejun, YANG Zhichao, LONG Siping, WANG Zhonghai* (9)
- Identification and prediction method of bedrock fracture under tectonic movement and lithology quality control.....  
.....*ZHOU Yan, SUN Haixia* (15)
- Application of texture attributes and pattern recognition in sedimentary facies.....*YUE Xiwei, YU Haitao* (23)
- Well-seismic integrated structure reconstruction and rolling exploration practice in Weigang area, Nanyang Sag.....  
.....*ZHU Yuhua, ZHANG Xiaoliang, LIU Shengyang, WANG Shufang, JIA Yanxia, PANG Meng* (27)
- Application and research of Q-migration technology in seismic data processing of Sanhe Subsag.....  
.....*WU Qianwan, PANG Quankang, GUAN Wenhua, HOU Haishui* (32)
- Application of quantitative interpretation method of geochemical logging in Xijiang Sag in eastern South China Sea.....  
.....*CAO Mengxian, JIANG Qiantao, XIANG Chao* (36)

### •Oil & Gas Development•

- Lithology identification method for clastic rock based on data mining technology and its application.....  
.....*MIAO Tao, WANG Fengqin, GAO Lijun, QIAO Linsheng, DUAN Taotao* (39)
- Application of fine fault description in tapping the potential of remaining oil in old oilfields.....  
.....*SUN XIUhui, HUANG Fei, GAI Guangdian, LIU Jinhua, KUANG Xiaodong* (45)
- Study on layered fine injection method based on remaining oil in high water-cut stage of thick-layered reservoir.....  
.....*ZHANG Jing, CAI Hui, LIU Bin, FAN Jing, ZHENG Bin* (51)
- Study and application of injection parameters optimization for polymer flooding with variable viscosity.....  
.....*WEI Jun, WU Yali, ZHANG Zhijun, WANG Hongshen, LI Baiying, YIN Peng* (57)
- Study on distribution of remaining oil in L reservoir after steam stimulation.....  
.....*WANG Teng, LI Kangkang, WANG Jian* (61)
- Inversion method of oil-gas permeability curve in gas cap reservoir and its application.....  
.....*LEI Yuan, YANG Ming, ZHOU Fengjun, WANG Yu, LI Yang* (69)
- Water-cut prediction method of improved waterflooding characteristic curve in low-permeability sandstone reservoirs...  
.....*HOU Shuang, WANG Wei* (75)

### •Oil & Gas Engineering•

- Discussion on optimization of cluster well construction sequence.....  
.....*XIE Xin, DING Shaohua, WANG Jintao, DOU Zhengdao, XU Hao* (80)
- Drilling technology of XuX36A mid-deep exploration well in lower Yangtze.....*CHEN Xiaoyuan, YAN Zhong* (85)
- Research and application of a new type of dissolvable bridge plug.....*JI Song* (90)
- Application of coiled tubing driven jet acidification in Puguang high sulfur gasfield.....*WANG Jianqing* (94)
- Application of hydraulic automatic pressure regulating device in heterogeneous reservoir.....*GUO Yimin* (98)
- Cuttings reinjection technology in ITT Block, Ecuador.....*YAN Zhong, WEN Jianxun, WANG Wei* (102)