

全国中文核心期刊
中国科技论文统计源期刊
RCCSE中国核心学术期刊 (A类)
中国科学引文数据库 (CSCD) 来源期刊

ISSN 1009-9603
CN 37-1359/TE
CODEN YDYCA5

油气地质与采收率

PETROLEUM GEOLOGY AND RECOVERY EFFICIENCY

PG&RE

2019 6

第26卷 (卷终) 第6期 Vol.26 No.6

ISSN 1009-9603



中国石油化工股份有限公司胜利油田分公司 主办

油气地质与采收率

Youqi Dizhi yu Caishoulü

(公开发行人 双月刊 1994年创刊)

第26卷 第6期 (总第141期)

2019年11月25日

国际标准连续出版物号 ISSN 1009-9603
国内统一连续出版物号 CN 37-1359/TE
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
胜利油田分公司
承办单位 胜利油田分公司勘探开发研究院

主 编 孔凡群
副 主 编 孙 国 杨 勇 李伟忠(常务)

编辑出版 《油气地质与采收率》编辑部
地 址 山东省东营市聊城路2号
邮政编码 257015
联系电话 0546-8715246, 8716980
网 址 http://yqdzycsl.cnjournals.com
电子邮箱 pgre@vip.163.com

责任编辑 经雅丽
技术编辑 罗 欣
英文编辑 刘北羿 英文审核 王钧剑

国内发行 《油气地质与采收率》编辑部
国外发行 中国国际图书贸易总公司
(北京399信箱)
国外代号 BM1709
印刷单位 山东润天彩色印刷有限公司
广告经营许可证 3700004000143
国内定价 50.00元/册

Petroleum Geology and Recovery Efficiency

(Bimonthly, Started in 1994)

Vol.26, No.6, Nov.2019

Chief Editor: Kong Fanqun

Vice Chief Editor: Sun Guo, Yang Yong
Li Weizhong

Sponsor: Shengli Oilfield Company, SINOPEC

Undertaker: Exploration and Development
Research Institute, SLOF

Editor & Publisher: Editorial Board of Petroleum
Geology and Recovery Efficiency

Address: No.2 Liao Cheng Road, Dongying,
Shandong, China

Zip Code: 257015

Telephone: 86-546-8715246, 8716980

Distributor: Editorial Board of Petroleum
Geology and Recovery Efficiency

Printer: Shandong Runtian Color Printing Co., Ltd.

如发现印刷、装订错误,请与编辑部联系更换

目 次

·油气地质·

- 1 潜山内幕一种新型储集体的形成与分布
.....金 强,毛艺阳,刘小琦,程付启,杜玉山,张 强
- 11 火山岩风化壳发育规律及油气地质意义——以准西车排子地区石炭系火山岩为例
.....林会喜,宫亚军,赵乐强,闵飞琼,曾治平,管永国,牛靖靖
- 19 特高含水期油藏剩余油分布新认识——以孤岛油田中一区Ng[±]3砂组为例
.....李振泉,郭长春,王 军,黄迎松,闫 萍,陈丽华
- 28 鄂尔多斯盆地临兴区块太原组致密砂岩黏土矿物特征及其对储层物性的影响
.....刘 玲,汤达祯,王 烽
- 36 苏里格西部致密砂岩储层不同孔隙类型下的气水渗流规律
.....董鑫旭,冯强汉,王 冰,杨 勃,张永洁,袁嘉赓,朱玉双
- 46 松北致密气藏砂砾岩储层脆性特征实验研究唐鹏飞
- 53 塔河油田缝洞型油藏不同成因岩溶储集体表征
.....余智超,王志章,魏荷花,肖凤英,李永强
- 62 珠江口盆地惠西南地区新近系岩性圈闭形成条件及发育类型
.....朱 明,陈维涛,杜家元,颜承志,刘汉卿
- 70 灰质背景下浊积岩储层地震响应特征及识别方法——以东营凹陷坳71井区为例
.....张建芝,李谋杰,张云银,魏红梅,商 伟
- 80 煤层气储层孔渗参数的应力响应特征吴 双,汤达祯,李 松,李 翔

·油气采收率·

- 87 幂函数递减模型的建立、对比与应用陈元千,傅礼兵
- 92 高渗区分布形态对砾岩油藏聚合物驱窜流的影响
.....王业飞,曲正天,张 菁,钱 程,丁名臣,康元勇,张以根
- 100 基于边界层理论的低渗透油藏非线性渗流新模型张世明
- 107 缝洞型碳酸盐岩油藏岩溶储集体注氮气提高采收率实验杨景斌,侯吉瑞
- 115 聚合物驱后期油藏注采耦合技术提高采收率研究及应用
.....李宗阳,谭河清,李林祥,曹绪龙,崔文福,陈孝芝,王业飞,李文华
- 122 致密油藏压裂水平井Blasingame曲线分析
.....林 旺,范洪富,王少军,闫 林,陈福利,刘立峰,车树芹
- 129 CO₂和N₂对页岩气开采效果的影响朱 艳,李义连,杨 森,刘丹青,罗 飞
- 136 压裂裂缝充填覆膜支撑剂控水增油实验王海栋,刘义坤

·信息·

《油气地质与采收率》第六届编委会(封二) 《油气地质与采收率》征稿简则(封三)

《油气地质与采收率》简介(封四)

期 刊 基 本 参 数 : CN37-1359/TE*1994*b*A4*142*zh*P*¥50.00*2000*18*2019-11

PETROLEUM GEOLOGY AND RECOVERY EFFICIENCY

Vol. 26 No.6 2019

CONTENTS

• PETROLEUM GEOLOGY •

Formation of new reservoir-body in buried hill internals

..... JIN Qiang, MAO Yiyang, LIU Xiaoqi, CHENG Fuqi, DU Yushan, ZHANG Qiang (1)

Volcanic weathering crust development pattern and its petrogeological significance: A case study

of Carboniferous volcanic crust of Chepaizi area in West Junggar Basin

..... LIN Huixi, GONG Yajun, ZHAO Leqiang, MIN Feiqiong, ZENG Zhiping, GUAN Yongguo, NIU Jingjing (11)

New understanding of remaining oil distribution in oil reservoirs at extra-high water-cut stage:

A case of Upper Ng3 sand group in Zhongyi area, Gudao Oilfield

..... LI Zhenquan, GUO Changchun, WANG Jun, HUANG Yingsong, YAN Ping, CHEN Lihua (19)

Clay minerals characteristics of tight sandstone and its impact on reservoir physical properties

in Taiyuan Formation of Block Linxing in Ordos Basin LIU Ling, TANG Dazhen, WANG Feng (28)

Gas-water percolation law of tight sandstone reservoirs with different pore types in western Sulige

..... DONG Xinxu, FENG Qianghan, WANG Bing, YANG Bo, ZHANG Yongjie, YUAN Jiageng, ZHU Yushuang (36)

Experimental study on brittleness of glutenite formation in tight gas reservoir of Songbei area TANG Pengfei (46)

Characterization of fracture-cave karst reservoirs with different genesis in Tahe Oilfield

..... YU Zhichao, WANG Zhizhang, WEI Hehua, XIAO Fengying, LI Yongqiang (53)

Formation conditions and development types of Neogene lithologic traps in southwestern Huizhou area,

Pearl River Mouth Basin ZHU Ming, CHEN Weitao, DU Jiayuan, YAN Chengzhi, LIU Hanqing (62)

Seismic response characteristics and identification methods of turbidite reservoir in limestone background: A case

study of Well Tuo71 Area in Dongying Sag ZHANG Jianzhi, LI Moujie, ZHANG Yunyin, WEI Hongmei, SHANG Wei (70)

Stress response characteristics of porosity and permeability of coalbed methane reservoirs

..... WU Shuang, TANG Dazhen, LI Song, LI Xiang (80)

• PETROLEUM RECOVERY EFFICIENCY •

Establishment, comparison and application of power function decline model Chen Yuanqian, Fu Libing (87)

Influence of distribution patterns of high-permeability zones on polymer crossflow in conglomerate oil reservoirs

..... WANG Yefei, QU Zhengtian, ZHANG Jing, QIAN Cheng, DING Mingchen, KANG Yuanyong, ZHANG Yigen (92)

A new nonlinear percolation model for low permeability reservoirs based on boundary-layer theory ZHANG Shiming (100)

Experimental study on enhanced oil recovery by nitrogen injection in fracture-cave carbonate reservoir

..... YANG Jingbin, HOU Jirui (107)

Research and application of injection-production coupling technology for enhancing oil recovery

in reservoirs at later stage of polymer flooding

..... LI Zongyang, TAN Heqing, LI Linxiang, CAO Xulong, CUI Wenfu, CHEN Xiaozhi, WANG Yefei, LI Wenhua (115)

Blasingame curve analysis of fractured horizontal well in tight oil reservoir

..... LIN Wang, FAN Hongfu, WANG Shaojun, YAN Lin, CHEN Fuli, LIU Lifeng, CHE Shuqin (122)

Effect of CO₂ and N₂ on shale gas recovery ZHU Yan, LI Yilian, YANG Sen, LIU Danqing, LUO Fei (129)

Experimental study on coated proppants packed in fractures for controlling water cut to increase

oil production WANG Haidong, LIU Yikun (136)