

特种油气藏

1994年创刊(双月刊)
第24卷 第5期 总第124期
2017年10月25日出版

编委会主任 张志东

技术顾问 马玉龙 主编 张方礼
副主编 刘德铸
常务副主编 王威

主管单位 中国石油天然气集团公司
主办单位 中国石油辽河油田分公司
承办单位 辽河油田分公司勘探开发研究院
辽河油田分公司钻采工艺研究院
编辑出版 《特种油气藏》编辑部
印刷 辽河石油报印刷厂
发行范围 国内外公开发行
国内发行 辽宁省盘锦市邮政局 邮发代号:8-173
国外发行 中国国际图书贸易总公司
(北京399信箱) 国外代号:BM1504
地址 辽宁省盘锦市辽河油田分公司
勘探开发研究院
电话 0427-7823579;0427-7820262
邮编 124010
投稿网址 www.sogr.com.cn
中国标准连 ISSN 1006-6535
续出版物号 CN 21-1357/TE
广告许可 211100100026
证号
定价 26.00元/册
责任编辑 林树龙 技术编辑 朱雅楠
彩页编辑 孟凡勤 英文翻译 北京太科石油信息
咨询服务公司

SPECIAL OIL & GAS RESERVOIRS

Vol.24 No.5(Sum.No.124)Oct.2017

Superintended by CNPC

Sponsored by Liaohe Oilfield Company of PetroChina

Organized by E&D Research Institute of Liaohe Oilfield
Company of PetroChina

Drilling And Oil Production Technology Research
Institute of Liaohe Oilfield Company of PetroChina

Technical Advisors MA Yu-long

Editor-in-Chief ZHANG Fang-li

Associate Editor-in-Chief LIU De-zhu

Managing Associate Editor-in-Chief WANG Wei

Edited & Published by Editorial Office of Special
Oil & Gas Reservoirs

Address E&D Research Institute of Liaohe Oilfield Company,
Petro China,Panjin,Liao-ning,China,124010

Tel 0427-7823579 0427-7820262

Printing The Press of Liaohe Petroleum Newspaper Office

Overseas Distribution China International Book Trading
Corporation P.O.Box 399, Beijing, China
(Code, No.BM1504)

Subscription Rate(Overseas) US \$26 per copy
US \$156 per year

目次

综述

页岩微纳米孔隙多尺度渗流理论研究进展
..... 端祥刚,高树生,胡志明,常进(1)

地质勘探

周庄油田戴一段岩性上倾尖灭油藏成因分析
..... 刘金华,夏步余,葛政俊,闵路,毕天卓(10)
白云深水区珠海组陆架边缘三角洲沉积演化
..... 邢作昌,林畅松,张忠涛,秦成岗,王思琦(15)
牛圈湖油田西山窑II砂组沉积特征及有利区预测
..... 文静,张娜,姚孟多,刘俊田,杨志刚(21)
油源断裂输导能力对油气分布的控制作用
..... 刘峻桥,张桐,孙同文,孙永河,王永统(27)
高家河地区盒段地层地震-沉积响应特征研究
..... 乔向阳,朱晴,孙建峰(32)
鄂尔多斯盆地延长组致密油有效烃源岩评价
..... 马芳侠,李耀华,葛云锦,刘聃,万成祥(37)
伊川凹陷谭庄组储层特征与致密油成藏条件
..... 司庆红,司马献章,张超,孙卫志,王善博(42)
凝析气与轻质油的气测识别方法及应用
..... 刘娟霞,王昕,吴昊晟,胡云,黄小刚(48)
莺歌海盆地天然气类型划分与来源分析
..... 郭潇潇,熊小峰,徐新德,甘军,梁刚(54)
渤中凹陷南部火成岩体精细雕刻及火山喷发模式研究
..... 李楠,王龙颖,刘丽芳,朱石磊(59)
金湖凹陷铜城断裂带断层活动与油气富集关系
..... 王韬,张卫海,李婷,刘喜欢,杨立干(65)
L凹陷古近系文昌组储层物性控制因素研究
..... 余加松,纪友亮,刘君龙,贾浪波,王茹(72)
元素录井技术在渤海潜山岩性识别中的应用
..... 孙哲,韦阿娟,江尚昆,付立,叶涛(78)

油藏工程

体积压裂水平井不稳定试井解释研究
..... 尹洪军,李兴科,赵二猛,Perapon Fakcharoenphol,付京(85)
天然气水合物加热分解储层变形破坏规律研究
..... 孙可明,王婷婷,翟诚,罗惠玉(91)
特高含水期油田水驱特征曲线优化研究
..... 王继强,岳圣杰,宋瑞文,陈青松,王博(97)
基于示踪剂返排的致密油压裂缝网评价方法
..... 李林凯,姜汉桥,李俊健,孟凡乐,秦积舜(102)
考虑反凝析影响的边水凝析气藏见水时间预测模型
..... 李元生,杨志兴,伍锐东,藤赛男(107)
高石梯-磨溪碳酸盐岩气藏斜井产能评价
..... 孟凡坤,雷群,闫海军,何东博,邓惠(111)
岩性油藏含水上升规律预测新方法
..... 党海龙,刘滨,赵习森,高涛,畅斌(116)
夹层对蒸汽辅助重力泄油的影响
..... 张洪源,李婷,解阳波,王立龙,杨万立(120)
空气泡沫驱适应性模糊综合评价方法及应用
..... 尚庆华,王玉霞,杨永超,黄春霞,张建成(126)
中拐凸起中基性火山岩油藏流体性质识别方法
..... 陈国军,殷晓兰,李静,高衍武,高明(131)
低渗透油藏微乳液驱微观剩余油驱替机理研究
..... 殷代印,项俊辉,房雨佳(136)
河流相稠油油田合理注水时机实验研究
..... 葛丽珍,朱志强,程大勇(141)
水驱气藏水侵动态储量损失实验研究
..... 胡世莱,李继强,姜楠,袁迎中,万小进(146)

钻采工程

致密砂岩交替注酸压裂工艺技术
..... 刘建坤,蒋廷学,吴春方,万有余,刘世华(150)
哈拉哈塘油田自流注水技术先导试验
..... 姜许健,程为红,罗惠玉(156)
杆式泵泄压工具的研制与应用
..... 任文博,宋正聪,汪沪亮(161)
勺形水平井在四川长宁页岩气开发中的应用
..... 孟璧桥,周柏年,付志,谷翠琳,阳强(165)
裂缝性油藏压裂井产能敏感因素评价方法研究
..... 刘欣佳,温庆志,张遂安,宋丽娜 Muhammad Haseeb(170)

期刊基本参数:CN 21-1357/TE*1994*b*A4*176*zh*P*¥26.00*3000*32*2017-10

CONTENTS

Summary

Research Progress in Multi-scale Percolation Theory in Shale Micro-nano Pores Duan Xianggang, Gao Shusheng, Hu Zhiming, Chang Jin(1)

Geologic Exploration

Analysis of Lithological Updip Pinchout Reservoir in Dai 1 Member, Zhouzhuang Oilfield Liu Jinhua, Xia Buyu, Ge Zhengjun, Min Lu, Bi Tianzhuo(10)

Deposit Evolution of Continental Margin Delta in the Zhuhai Formation in Deep Water Area of Baiyun Sag Xing Zuochang, Lin Changsong, Zhang Zhongtao, Qin Chenggang, Wang Siqi(15)

Depositional features of sand group II in Xishanyao Formation and Prediction of Favorable Regions in Niujianhu Oilfield Wen Jing, Zhang Na, Yao Mengduo, Liu Juntian, Yang Zhigang(21)

Controlling Effect of Conducting Capacity of Oil Source Faults on Oil and Gas Distribution Liu Junqiao, Zhang Tong, Sun Tongwen, Sun Yonghe, Wang Yongtong(27)

Features of Seismic-sedimentation Responses in He-8 Interval of the Gaojiahe Area Qiao Xiangyang, Zhu Qing, Sun Jianfeng(32)

Evaluation on Effective Source Rock of Tight Oil in Yanchang Formation, Ordos Basin Ma Fangxia, Li Yaohua, Ge Yunjin, Liu Dan, Wan Chengxiang(37)

Accumulation Conditions for Tanzhuang Formation in Yichuan Depression Si Qinghong, Sima Xianzhang, Zhang Chao, Sun Weizhi, Wang Shanbo(42)

Identification Method for Condensate Gas and Light Oil by Gas Logging and Its Application Liu Juanxia, Wang Xin, Wu Haosheng, Hu Yun, Huang Xiaogang(48)

Type Classification and Origin Analysis of Natural Gas in the Yinggehai Basin Guo Xiaoxiao, Xiong Xiaofeng, Xu Xinde, Gan Jun, Liang Gang(54)

Fine Engraving of Eruptive Bodies and Study on Volcanic Eruption Model in Southern Bozhong Sag Li Nan, Wang Longying, Liu Lifang, Zhu Shilei(59)

Relationship between Fault Activity and Oil & Gas Enrichment for Tongcheng Fault Belt in Jinhu Depression Wang Tao, Zhang Weihai, Li Ting, Liu Xihuan, Yang Ligan(65)

Study on Controlling Factors of Reservoir Properties of the Paleogene Wenchang Formation in L Sag Yu Jiasong, Ji Youliang, Liu Junlong, Jia Langbo, Wang Ru(72)

Application of Element Logging Technology in Identifying Buried Hill Lithologies in Bohai Sea Sun Zhe, Wei Ajuan, Jiang Shangkun, Fu Li, Ye Tao(78)

Reservoir Engineering

Interpretation of Transient Well Test Data in Horizontal Wells with Volumetric Fracturing Yin Hongjun, Li Xingke, Zhao Ermeng, Perapon Fakcharoenphol, Fu Jing(85)

Patterns of Reservoir Deformation due to Thermal Decomposition of Natural Gas Hydrates Sun Keming, Wang Tingting, Zhai Cheng, Luo Huiyu(91)

Optimization of Characteristic Curves for Water Flooding Operations in Development of Oilfields in Stages with Extremely High Water Cut Wang Jiqiang, Yue Shengjie, Song Ruiwen, Chen Qingsong, Wang Bo(97)

Techniques for Assessments of Hydraulic Fracture Network in Tight Oil Reservoirs Based on Tracer Discharging Li Linkai, Jiang Hanqiao, Li Junjian, Meng Fanle, Qin Jishun(102)

Prediction model for Water Breakthrough Time in Gas Condensate Reservoirs with Edge Water Considering Retrograde Condensate Impact Li Yuansheng, Yang Zhixing, Wu Ruidong, Teng Sainan(107)

Productivity Assessment for Inclined Wells in Gaoshiti-Moxi Carbonate Gas Reservoirs Meng Fankun, Lei Qun, Yan Haijun, He Dongbo, Deng Hui(111)

Innovative Technique for Prediction of Water Cut Increases in Lithologic Reservoirs Dang Hailong, Liu Bin, Zhao Xisen, Gao Tao, Chang Bin(116)

Impacts of Interlayers on SAGD Zhang Hongyuan, Li Ting, Xie Yangbo, Wang Lilong, Yang Wanli(120)

Development and Application of Fuzzy and Comprehensive Evaluation Technique for Adaptability of Foam Flooding Shang Qinghua, Wang Yuxia, Yang Yongchao, Huang Chunxia, Zhang Jiancheng(126)

Identification Method for Fluid Characteristics in Intermediate-basic Volcanic Rock Reservoirs in Zhongguai Bulge Chen Guojun, Yin Xiaolan, Li Jing, Gao Yanwu, Gao Ming(131)

Study on Microemulsion Flooding Mechanism for the Residual Oil in Low-permeability Reservoirs Yin Daiyin, Xiang Junhui, Fang Yujia(136)

Experimental Study on Reasonable Water Injection Opportunity in Heavy Oil Fields in Fluvial Facies Ge Lizhen, Zhu Zhiqiang, Cheng Dayong(141)

Experimental Study on Dynamic Reserves Loss by Water Invasion in Water-driven Gas Reservoirs Hu Shilai, Li Jiqiang, Jiang Nan, Yuan Yingzhong, Wan Xiaojin(146)

Drilling & Production Engineering

Alternate Acid Injection Fracturing Technology for Tight Sandstone Reservoirs Liu Jiankun, Jiang Tingxue, Wu Chunfang, Wan Youyu, Liu Shihua(150)

Pilot Tests for Gravity Water Injection in the Halahatang Oilfield Jiang Xujian, Cheng Weihong, Luo Huiyu(156)

Development and Application of Tools to Release Pressures in Sucker Rod Pump Ren Wenbo, Song Zhengcong, Wang Huliang(161)

Application of Spoon-shaped Horizontal Wells for Development of Shale Gas in Changning, Sichuan Meng Beiqiao, Zhou Bainian, Fu Zhi, Gu Cuilin, Yang Qiang(165)

Techniques for Assessment of Productivity Sensitive Factors in Wells with fracturing Operations in Fractured Reservoirs Liu Xinjia, Wen Qingzhi, Zhang Sui'an, Song Lina, Muhammad Haseeb(170)