

油气地质与采收率

Youqi Dizhi yu Caishoulü

(公开发行 双月刊 1994年创刊)

第18卷 第2期 (总第89期)

2011年3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 胜利油田分公司地质科学研究院

主编 孙换泉

副主编 张绍东 刘显太 王永诗

马立驰(常务)

编辑出版 油气地质与采收率期刊社

地址 山东省东营市聊城路2号

邮政编码 257015

联系电话 0546-8715240, 8717738

传真 0546-8715240

网址 www.yqdzysl.com

电子邮箱 pgre@vip.163.com

责任编辑 武云云

技术编辑 罗欣 王薇波

英文编辑 温志峰 英文审核 刘北羿

国内发行 油气地质与采收率期刊社

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 地质科学研究院制图印刷厂

广告经营许可证 3700004000143

国内定价 25.00元/册

Petroleum Geology and Recovery Efficiency

(Bimonthly, Started in 1994)

Vol. 18, No. 2, Mar. 2011

Chief Editor: Sun Huanquan

Vice Chief Editor: Zhang Shaodong, Liu Xiantai

Wang Yongshi, Ma Lichi

Sponsor: Shengli Oilfield Company, SINOPEC

Undertaker: Geoscience Research Institute, SLOF

Editor & Publisher: Periodical Office of Petroleum

Geology and Recovery Efficiency

Address: No. 2 Liaocheng Road, Dongying,

Shandong, China

Zip Code: 257015

Telephone: 86-546-8715240, 8717738

Fax: 86-546-8715240

Distributor: Periodical Office of Petroleum

Geology and Recovery Efficiency

Printer: Geoscience Research Institute Printing

House

如发现印刷、装订错误, 请与期刊社联系更换

目 次

· 油气地质 ·

1 断块圈闭控藏模式——以辽河盆地西部凹陷为例 冷济高, 庞雄奇, 杨克明, 等

7 大型克拉通盆地海侵类型及特征 吕大炜, 李增学, 刘海燕, 等

12 渤海湾盆地锦州南油田太古界变质岩潜山储层裂缝三维地质建模 张岚, 霍春亮, 赵春明, 等

16 陈家庄凸起及北坡油气成藏差异性 彭传圣

21 南堡凹陷古近系深层烃源岩分布特征及厚度预测 范泓澈, 黄志龙, 庞雄奇, 等

26 低可容纳空间曲流河河道砂体划分与识别 ——以羊二庄油田明化镇组Ⅲ-5小层为例 段冬平, 侯加根, 吴勇, 等

30 盐家地区沙四段上亚段砂砾岩体储层特征及成岩演化 田美荣

34 南海南部万安盆地烃源岩成熟史数值模拟研究 刘旭明, 张成

38 沾化凹陷孤西地区二氧化碳特征及成因 赵勇, 李敏, 万丛礼, 等

· 勘探技术 ·

41 孔隙流体核磁共振弛豫特征及油水层识别方法 王志战, 许小琼, 周宝洁

45 普光气田飞仙关组鲕滩白云岩储层预测 裴磊

· 油气采收率 ·

49 剪切作用对疏水缔合聚合物溶液分子聚集行为的影响 施雷庭, 贾天泽, 叶仲斌, 等

52 表面活性剂一聚合物二元复合体系评价指标探讨 董玲, 张群志, 李织宏, 等

55 海上油田早期聚合物驱历史拟合方法 唐恩高, 杨俊茹, 张贤松

58 大庆原油中活性物质对界面张力的影响 刘立伟, 侯吉瑞, 岳湘安

· 油气藏工程 ·

62 复杂断块油藏三级细分技术的研究与应用 ——以永安镇油田永3-1断块沙二段7—9层系为例 王端平, 杨勇, 梁承春, 等

65 沥青质伤害油藏数值模拟研究 孙业恒

69 酸压裂缝导流能力影响因素分析 韦建业, 张士诚

72 端部脱砂压裂防砂技术在老河口油田老168区块的应用 吴建平

76 注干气开发凝析气藏注采压力系统研究 ——以塔里木盆地大涝坝2号构造凝析气藏为例 彭松, 黄全华, 杨翠萍, 等

80 大尺度缝洞型碳酸盐岩油藏含水率变化规律 常宝华, 熊伟, 高树生, 等

83 试井资料在低渗透油藏评价中的应用 黄成江

87 低渗透油藏不稳定产量递减分析 赵宏军, 廖新维, 王绍平, 等

90 低渗透油藏非线性微观渗流机理 杨仁锋, 姜瑞忠, 孙君书, 等

· 油气钻采工程 ·

94 抽油机悬点与抽油杆柱运动协调及临界冲次研究 陈德春, 周淑娟, 向刚, 等

98 生物酶对钻井液的降解性能影响因素及解堵作用研究 李公让

102 低渗透储层压裂液伤害核磁共振评价方法 姚凤英

105 特低渗透油藏注水粘土稳定剂及评价方法 ——以海拉尔盆地贝尔油田为例 江建林, 岳湘安, 高震, 等

108 低粘度堵剂在管外窜槽模型中的注入选择性研究 杨浩, 邓军, 陈伟, 等

· 信息 ·

《油气地质与采收率》2011年第3期要目(61) 英文摘要(I) 《油气地质与采收率》

第四届编委会(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 * 110 * zh * P * ¥25.00 * 3400 * 29 * 2011-03

PETROLEUM GEOLOGY AND RECOVERY EFFICIENCY

Vol. 18 No. 2 2011

CONTENTS

• PETROLEUM GEOLOGY •

Hydrocarbon accumulation model of fault block trap—a case study of west sag of Liaohe basin	Leng Jigao, Pang Xiongqi, Yang Keming et al (1)
Study on characteristics of transgression types in superimposed basins	Liu Dawei, Li Zengxue, Liu Haiyan et al (7)
Geologic modeling of Jinzhounan Neo-Archean metamorphic buried hill fracture reservoir	Zhang Lan, Huo Chunliang, Zhao Chunming et al (12)
Differentiation of mechanisms and models of hydrocarbon accumulation in Chenjiazhuang uplift and its north slope	Peng Chuansheng (16)
Evaluation approach and early-stage prediction on Paleogene hydrocarbon source rocks in Nanpu sag, Bohai Bay basin	Fan Hongche, Huang Zhilong, Pang Xiongqi et al (21)
The division and recognition of meandering river sand body in lower accommodation space—case study of Ming III-5, Yangerzhuang oilfield	Duan Dongping, Hou Jiagen, Wu Yong et al (26)
Diagenesis evolution characteristics of glutenite reservoir in Yanjia area	Tian Meirong (30)
Numerical simulation of source rock maturity history in Wan'an basin, Southern South China Sea	Liu Xuming, Zhang Cheng (34)
Analysis on characteristic and origin of carbon dioxide, Guxi area, Zhanhua depression	Zhao Yong, Li Min, Wan Congli et al (38)

• EXPLORATION TECHNIQUE •

Relaxation features of pore fluid and water/oil bed recognition with NMR technology	Wang Zhizhan, Xu Xiaoqiong, Zhou Baojie (41)
Forecast on oolite and shoal dolomite reservoir of Feixianguan group Puguang gas field	Pei Lei (45)

• PETROLEUM RECOVERY EFFICIENCY •

Shearing effect on the assembling behavior of hydrophobic associative polymer solution	Shi Leiting, Jia Tianze, Ye Zhongbin et al (49)
Discussion on performance evaluation index of surfactant/polymer combinational flooding system	Dong Ling, Zhang Qunzhi, Li Zihong et al (52)
History matching study of early stage polymer flooding	Tang Engao, Yang Junru, Zhang Xiansong (55)
Influence of active substance on interfacial tension in crude oil	Liu Liwei, Hou Jirui, Yue Xiang'an (58)

• RESERVOIR ENGINEERING •

Research and application of three-class subdivision technique on complex fault block reservoirs—a case study of Es ₂ , 7–9 layer series of Yong 3–1 fault block in Yonganzhen oilfield	Wang Duanping, Yang Yong, Liang Chengchun et al (62)
Numerical simulation on reservoir damage by asphaltene	Sun Yeheng (65)
Influence factor analysis on acid pressure rips diversion capacity	Mou Jianye, Zhang Shicheng (69)
Application of top screen out frac-pack sand control technique in Zhuangxi Lao168 block	Wu Jianping (72)
Study on injection-production pressure system for developing condensate gas reservoir via cycling dry gas—case study of Dalaoba No. 2 structure condensate gas reservoir	Peng Song, Huang Quanhua, Yang Cuiping et al (76)

Variation rule of water cut in large-scale fractured-cavernous reservoir	Chang Baohua, Xiong Wei, Gao Shusheng et al (80)
Application of well test data in evaluation of low-permeability oil reservoirs	Huang Chengjiang (83)
Analysis of instable production decline for low permeability reservoir	Zhao Hongjun, Liao Xinwei, Wang Shaoping et al (87)
Study on non-linear flow mechanism in low permeability porous medium	Yang Renfeng, Jiang Ruizhong, Sun Junshu et al (90)

• PETROLEUM DRILLING & OIL PRODUCING ENGINEERING •

Studies on coordination between suspension center's and rod string's movements and critical stroke frequency	Chen Dechun, Zhou Shujuan, Xiang Gang et al (94)
Studies on enzyme degradation and un-blocking interaction of drilling and completion fluids	Li Gongrang (98)
NMR evaluation of reservoir damage caused by fracturing liquid on low permeable reservoir	Yao Fengying (102)
Study on clay stabilizer and evaluation method for extra-low permeability oil field—a case study of Beier oilfield	Jiang Jianlin, Yue Xiang'an, Gao Zhen et al (105)
Selective injection of plugging agent of low viscosity in outside channeling model	Yang Hao, Deng Jun, Chen Wei et al (108)