



中文核心期刊
中国科技核心期刊
CSCD 来源期刊
河南省一级期刊
美国剑桥科学文摘收录期刊
美国石油文摘 (PA) 收录期刊
美国化学文摘 (CA) 收录期刊

ISSN 1005-8907
CN 41-1219/TE

断块油气田

FAULT-BLOCK OIL & GAS FIELD

中原油田专家论坛专题
油气田勘探与开发国际会议 (IFEDC) 专题
非常规油气专题
碳酸盐岩油气藏专题

Vol.29 No.2
2022.2

ISSN 1005-8907



中国石油化工集团有限公司 主管
中国石化集团中原石油勘探局有限公司 主办

目次

中原油田专家论坛

四川盆地普光和通南巴地区须家河组气藏气源探讨·····张鹏伟,张洪安,王学军,彭君,周勇水,徐田武,张云献,张斌,康华	145
东濮凹陷北部流体作用与油气运聚·····徐田武,张成富,金爱民,朱蓉,王君,王库,王睿,姚欣雨	152
东濮凹陷上古生界甜点储层地震预测技术·····苏云,李令喜,孟凡冰,李传强,邓明霞,侯东濮,姚欣雨	157
凝析气藏气驱二维填砂物理模型实验研究·····齐桂雪,李中超,刘平,邓瑞健,王燕丽,高志飞,陈华,景洪信	164

油气田勘探与开发国际会议(IFEDC)

川中安岳气田须二段致密砂岩气藏开发有利区优选·····张满郎,张静平,汤子余,李明秋,徐艳梅,罗万静,彭越,姜仁	171
胜利海上油田下古生界潜山油藏储层描述与开发调整·····王志伟,张凯,张本华,武群虎,刘少斌,周红科,张在振	178
低阻页岩气储层含气饱和度计算方法——以涪陵地区焦石坝区块为例·····石文睿,张占松,黄梓桑,石元会,廖勇	183
小尺度缝洞型碳酸盐岩储集体地震预测技术——以四川盆地台内GS18井区灯影组四段储层为例·····李春梅,彭才,韦柳阳,别静,王紫笛,李雯琪,何小会	189
塔里木盆地深层致密油藏地质工程一体化模拟技术·····范家伟,袁野,李绍华,王彦秋,黄兰,尚钰凯,李君,陶正武	194

非常规油气

南鄱阳盆地二甲村凹陷乐平组官山段古地理环境特征·····曾广平,王峻,张春光,赵晴,吴双	199
川西新场地区须二段物源特征及其对储层物性的控制·····王志康,林良彪,余瑜,张俊法,王兴龙	207
试油数据在估算致密砂砾岩储层渗透率中的应用·····王鑫,张旭阳,黄长兵,汪康,顾明翔,吴伟	214
页岩气叠后裂缝综合预测技术——以长宁国家级页岩气示范区为例·····黄浩勇,苟其勇,刘胜军,王乐之,张宗和,钟高,程晓莉	218
塔里木盆地M区块致密砂岩气藏水锁损害影响因素评价·····宋学锋,魏慧蕊,李文杰,张蕾,朱英斌,邓德坤	224
考虑组分差异的致密油二氧化碳吞吐效果分子模拟·····任旭,王杰,董海海,盛萍,徐虎,张鸿英	229
致密砂岩油藏高速通道压裂裂缝导流能力影响因素分析·····金萍,王献,张尚明,王鲁川,卢志敏	234

碳酸盐岩油气藏

低频次叠加的同生溶蚀作用对滩相储层发育的控制——以川中栖霞组为例·····韩心奕,伏美燕,邓虎成,吴冬,胥旺,何溥为,陈培,郭恒玮	239
川东南地区二叠系—三叠系碳酸盐岩气藏气源及成因类型·····潘磊,秦华,张文睿,李炳波	245
基于等效渗流角模型的顺北油田线性流地层渗透率确定方法·····李冬梅,邹伟,谢进,李会会,朱苏阳	251
顺北油气田奥陶系破碎性地层井壁失稳影响因素分析·····张亚云,李大奇,高书阳,林永学,曾义金	256

常规油气

断层气密性定量评价方法及其在油田开发中的应用·····吴义志,王建,武刚	261
致密砂岩储层成岩相及孔隙演化过程——以川中北部地区沙二1亚段为例·····朱讯,冯林杰,吕乐,蒋裕强,王小娟,李明秋,李雪松	265
博兴洼陷樊1断块沙四上亚段滩坝砂体预测·····梁书义,董艳蕾,关维锋,杨晓敏,徐磊,谢风猛,霍爱民,赵文勋	271
基于空心球破碎概率的双梯度钻井井筒压力预测·····张锐尧,李军,柳贡慧,郝希宁,何玉发,周云健,王宁	278
爆燃压裂技术在海上油田定向井多层合采中的应用·····李凡,曹卫东,孙玉华,陈康,江华,李少伟	285

综合资讯

中原油田举办第二届专家论坛	170	油气田勘探与开发国际会议(IFEDC)	198
---------------	-----	---------------------	-----

(责任编辑:岳艳丽 英文编辑:郭勇)

CONTENTS

Expert Forum in Zhongyuan Oilfield

Origin of natural gas in the Xujiahe Formation in Puguang and Tongnanba area, Sichuan Basin, China	
..... ZHANG Pengwei, ZHANG Hongan, WANG Xuejun, PENG Jun, ZHOU Yongshui, XU Tianwu, ZHANG Yunxian, ZHANG Bin, KANG Hua	145
Fluid action and hydrocarbon migration and accumulation in the northern part of Dongpu Sag	
..... XU Tianwu, ZHANG Chengfu, JIN Aimin, ZHU Rong, WANG Jun, WANG Ku, YAO Xinyu, WANG Rui	152
The technology of seismic prediction for sweet reservoir of the Upper Paleozoic in Dongpu Depression	
..... SU Yun, LI Lingxi, MENG Fanbing, LI Chuanqiang, DENG Mingxia, HOU Dongpu, YAO Xinyu	157
An experimental study of two-dimensional sand filling physical model for gas flooding in condensate gas reservoir	
..... QI Guixue, LI Zhongchao, LIU Ping, DENG Ruijian, WANG Yanli, GAO Zhifei, CHEN Hua, JING Hongxin	164

International Field Exploration and Development Conference

Preferential selection of favorable development areas of tight sandstone gas reservoir in the second Member of Xujiahe Formation in Anyue gas field of central Sichuan Basin	
..... ZHANG Manlang, ZHANG Jingping, TANG Ziyu, LI Mingqiu, XU Yanmei, LUO Wanqing, PENG Yue, JIANG Reng	171
Reservoir description and development adjustment of the Lower Paleozoic buried hill in Shengli offshore oil field	
..... WANG Zhiwei, ZHANG Kai, ZHANG Benhua, WU Qunhu, LIU Shaobin, ZHOU Hongke, ZHANG Zaizhen	178
Study on calculation method of gas saturation in low-resistivity shale gas reservoir: a case study of Jiaoshiba block in Fuling area	
..... SHI Wenrui, ZHANG Zhansong, HUANG Zisang, SHI Yuanhui, LIAO Yong	183
Seismic prediction technology of small scale fractured-cave carbonate reservoir: taking the intra-platform reservoir of the fourth Member of Dengying Formation in GS18 wellblock, Sichuan Basin as an example	
..... LI Chunmei, PENG Cai, WEI Liuyang, BIE Jing, WANG Zidi, LI Wenqi, HE Xiaohui	189
Geology-engineering integrated simulation technology of deep tight oil reservoir in Tarim Basin	
..... FAN Jiawei, YUAN Ye, LI Shaohua, WANG Yanqiu, HUANG Lan, SHANG Zhengkai, LI Jun, TAO Zhengwu	194

Unconventional Oil and Gas

Paleogeographic environment characteristics of the Guanshan Member of the Leping Formation in Erjiacun Depression, Southern Poyang Basin	
..... ZENG Guangping, WANG Jun, ZHANG Chunguang, ZHAO Qing, WU Shuang	199
Provenance characteristics and its controlling on reservoir physical properties of the second Member of the Xujiahe Formation in Xinchang area, western Sichuan Depression	
..... WANG Zhikang, LIN Liangbiao, YU Yu, ZHANG Junfa, WANG Xinglong	207
Application of oil test data in estimating permeability of tight glutenite reservoir	
..... WANG Xin, ZHANG Xuyang, HUANG Changbing, WANG Kan, GU Mingxiang, WU Wei	214
Post-stack fracture comprehensive prediction technology for shale gas: taking Changning national shale gas demonstration area as an example	
..... HUANG Haoyong, GOU Qiyong, LIU Shengjun, WANG Lezhi, ZHANG Zonghe, ZHONG Gao, CHENG Xiaoli	218
Evaluation on influencing factors of water lock damage of tight sandstone gas reservoir in block M of Tarim Basin	
..... SONG Xuefeng, WEI Huirui, LI Wenjie, ZHANG Lei, ZHU Yingbin, DENG Dekun	224
Molecular simulation of CO ₂ huff and puff effects in tight oil considering component differences	
..... REN Xu, WANG Jie, DONG Haihai, SHENG Ping, XU Hu, ZHANG Hongying	229
Influencing factors of fracture conductivity in high-speed channel fracturing in tight sandstone reservoir	
..... JIN Ping, WANG Xian, ZHANG Shangming, WANG Luchuan, LU Zhimin	234

Carbonate Reservoir

The control of syngenetic dissolution of low-frequency superposition on the development of shoal facies reservoir: a case study of Qixia Formation in central Sichuan	
..... HAN Xinyi, FU Meiyang, DENG Hucheng, WU Dong, XU Wang, HE Puwei, CHEN Pei, GUO Hengwei	239
Gas source and genetic types of Permian-Triassic carbonate gas reservoirs in Southeast Sichuan	
..... PAN Lei, QIN Hua, ZHANG Wenrui, LI Bingtao	245
The permeability determining method for linear flow reservoirs in Shunbei oil field based on the equivalent seepage angle model	
..... LI Dongmei, ZOU Wei, XIE Jin, LI Huihui, ZHU Suyang	251
Analysis on influencing factors of wellbore instability of Ordovician fractured formation in Shunbei Oil and Gas Field	
..... ZHANG Yayun, LI Daqi, GAO Shuyang, LIN Yongxue, ZENG Yijin	256

Conventional Oil and Gas

Quantitative assessment of fault gas-sealing capacity and its application in oilfield development	
..... WU Yizhi, WANG Jian, WU Gang	261
Diagenetic facies and pore evolution of tight sandstone reservoir: taking Sha ₂ ¹ sub-member in the north of Central Sichuan Basin as an example	
..... ZHU Xun, FENG Linjie, LYU Le, JIANG Yuqiang, WANG Xiaojuan, LI Mingqiu, LI Xuesong	265
Prediction of beach and bar sand body in the upper of the fourth Member of Shahejie Formation of Fan 1 fault block in Boxing Depression	
..... LIANG Shuyi, DONG Yanlei, GUAN Weifeng, YANG Xiaomin, XU Lei, XIE Fengmeng, HUO Aimin, ZHAO Wenxun	271
Prediction of wellbore pressure in dual-gradient drilling based on the breaking probability of hollow glass spheres	
..... ZHANG Ruiyao, LI Jun, LIU Gonghui, HAO Xining, HE Yufa, ZHOU Yunjian, WANG Ning	278
Application of deflagration fracturing technology to multi-layer combined production in offshore directional wells	
..... LI Fan, CAO Weidong, SUN Yuhua, CHEN Kang, JIANG Hua, LI Shaowei	285

《断块油气田》第四届编辑委员会

主 任：王志刚

副主任：朱伟林 蔡希源 金之钧 李 阳 赵文智 王寿平

特邀院士编委（按姓氏笔画排序）：

杨文采 张国伟 贾承造 康玉柱 戴金星

编委会委员（按姓氏笔画排序）：

马永生 马新华 王中华 王生朗 王寿平 王志刚 王良书 毛凤鸣 孔凡群 邓 军 邓瑞健
付 广 印兴耀 冯建辉 毕义泉 毕建霞 吕新华 朱伟林 朱筱敏 任玉林 刘 伟 刘 斌
刘玉琳 刘池阳 杜志敏 杨文采 杨树锋 李 阳 李存贵 吴信荣 何治亮 宋子齐 张 勇
张中伟 张庆生 张来斌 张昌民 张国伟 张洪安 张峭楠 张善文 张强德 陈万江 陈宗林
呼舜兴 罗晓容 国殿斌 金之钧 周立宏 周延军 孟卫工 赵化廷 赵文智 赵贤正 胡群爱
袁向春 耿师江 贾承造 徐卫东 谈玉明 黄泽贵 常学军 康玉柱 董月霞 韩保清 傅 强
焦大庆 舒尚文 曾大乾 蔡希源 蔡其新 潘 懋 戴金星

主 编：张庆生

常务副主编：张洪安

副 主 编：徐深谋

断块油气田

Duankuai Youqitian

（双月刊 1994 年创刊）

第 29 卷 第 2 期（总第 170 期）2022 年 3 月 25 日出版

FAULT-BLOCK OIL & GAS FIELD

（Bimonthly, Started in 1994）

Vol.29 No.2

Published on Mar. 25, 2022

主管单位 中国石油化工集团有限公司
主办单位 中国石化集团中原石油勘探局有限公司
主 编 张庆生
常务副主编 张洪安
副 主 编 徐深谋
编辑出版 《断块油气田》编辑部
地 址 河南省濮阳市华龙区中原东路 360 号
邮 编 457001
电 话 0393-4820093
网 址 www.dkyqt.com
E - mail dkyqt@vip.163.com
印 刷 河南濮阳中原石油报社彩色印刷厂
国内发行 河南省邮政局
邮发代号 36-351
国外发行 中国国际图书贸易总公司
北京 399 信箱 邮编 100044
广告经营许可证号 4109004000001

Responsible Institution: China Petrochemical Corporation
Sponsor: Zhongyuan Petroleum Exploration Bureau Co., Ltd., SINOPEC
Chief Editor: Zhang Qingsheng
Vice-standing Chief Editor: Zhang Hongan
Vice Chief Editor: Xu Shenmou
Publisher: Editorial Department of Fault-Block Oil & Gas Field
Address: No.360, East Zhongyuan Road, Puyang, Henan, China
Postcode: 457001
Tel: 86-393-4820093
Web Address: <http://www.dkyqt.com>
E-mail: dkyqt@vip.163.com
Domestic Distributor: Post Office of Henan Province
Overseas Distributor: China International Book Trading Corporation,
P. O. Box 399, Beijing 100044, P. R. China
Ad. Licence: 4109004000001

国际标准连续出版物号 ISSN 1005-8907

国内统一连续出版物号 CN 41-1219/TE

定价：国内 60 元 / 国外 20 美元