

特邀主编 徐长贵 杜晓峰 朱红涛

# 地球科学

2020年10月 第45卷 第10期

## 目次

### 陆相混积岩与优质储层专辑

陆相断陷盆地陆源碎屑与碳酸盐混合沉积研究进展 ..... 杜晓峰,徐长贵,朱红涛,解习农,朱筱敏,刘可禹,姜在兴,曾洪流 (3509)

渤海海域秦南凹陷东南缘沙一段混积岩优质储层成因及勘探意义 ..... 薛永安,庞小军,郝轶伟,冯冲 (3527)

东营凹陷细粒混积岩发育环境及其岩相组合:以沙四上亚段泥页岩细粒沉积为例 ..... 刘惠民,王勇,杨永红,张顺 (3543)

渤海海域沙一段基底岩性条件对湖相混积岩储层的控制作用 ..... 王清斌,牛成民,潘文静,刘晓健,郝轶伟 (3556)

渤海湾盆地黄河口凹陷沙河街组白云岩成因机理 ..... 姚婷婷,朱红涛,杨香华,石文龙,牛成民 (3567)

莱州湾凹陷火山岩—湖相碳酸盐岩混积岩储层特征和成因 ..... 刘晓健,王清斌,代黎明,刘士磊,郝轶伟 (3579)

辽东湾北部地区混合沉积特征及地球物理响应 ..... 吴奎,惠冠洲,高京华,加东辉 (3589)

南堡凹陷高北地区“异迁移”型层序构型成因及其对沉积的意义 ..... 刘可行,甘华军,陈思,孟令箭,李潇鹏,柯友亮,马江浩,王思洋 (3603)

渤海海域沙一二段混合沉积分布特征与勘探实践 ..... 徐伟,杜晓峰,宋章强,李正宇,李虹 (3618)

济阳拗陷细粒混积岩类型与湖盆演化的耦合关系 ..... 马义权,刘惠民,张守鹏,陆永潮,刘晓峰 (3633)

渤海海域莱南斜坡带沙三下亚段混合沉积发育特征及主控因素 ..... 王启明,杜晓峰,宛良伟,付鑫,李晓辉 (3645)

渤海古近系混合沉积发育特征与沉积模式 ..... 宋章强,杜晓峰,徐伟,卢欢,陈丽祥 (3663)

渤海海域沙一二段湖相混积岩储层测井分类与识别 ..... 冯冲,代黎明,刘晓健,赵梦,张参 (3677)

渤海海域成因环境约束的混积岩储层地球物理综合预测技术 ..... 王志萍,吕丁友,宋章强,陈延芳,于喜通 (3693)

渤海海域沙河街组一二段扇三角洲混合沉积特征、沉积模式及勘探意义 ..... 付鑫,杜晓峰,官大勇,王启明,叶茂松 (3706)

湖相混积岩系同沉积淋滤作用识别标志与优质储层形成机理:以石臼坨凸起陡坡带Q29和Q36构造沙一、二段为例 ..... 卢欢,王清斌,牛成民,杜晓峰,宋章强,冯冲 (3721)

渤海湾盆地黄河口凹陷古近系沙一段混积岩发育特征及沉积模式 ..... 叶子倩,朱红涛,杜晓峰,杨香华,姚婷婷,李森 (3731)

珠江口盆地珠江组混积岩中有孔虫的矿化特征与机制 ..... 刘娜,吴克强,刘立,于雷,徐思萌,彭晓蕾 (3746)

饶阳凹陷蠡县斜坡沙一下亚段混积滩坝沉积特征与发育模式 ..... 杜一帆,朱筱敏,叶蕾,高园 (3759)

沧东凹陷孔二段混合细粒沉积岩相特征及形成环境 ..... 李圪,刘可禹,蒲秀刚,陈世悦,韩文中,张伟,汪虎,梁超,赵建华 (3779)

黄河口凹陷渤中27-A构造沙一二段湖相混积岩储层特征及成因 ..... 代黎明,牛成民,庞小军,冯冲,万琳,金小燕 (3797)

东营凹陷古近系湖相细粒混积岩沉积成岩特征 ..... 滕建彬,刘惠民,邱隆伟,张守鹏 (3808)

渤海沙一段生物碎屑混积岩古生物特征及储层意义 ..... 潘文静,王清斌,杜晓峰,田德瑞,王改卫,曹洁 (3827)

湖相混积岩储层孔喉组合特征多尺度表征及评价 ..... 万琳,代黎明,汤国民,郝轶伟,高曦龙 (3841)

渤海海域环渤中地区沙一二段混积岩优质储层差异及成因 ..... 庞小军,牛成民,杜晓峰,王清斌,代黎明 (3853)

珠江口盆地东部碎屑岩—碳酸盐混合沉积区岩性油气藏形成地质条件与潜力 ..... 梁卫,李小平 (3870)

·文章荐读·

解密超大陆—超地幔柱旋回在大陆地壳生长演化中的角色 ..... 王选策,Simon A. Wilde,李正祥,李劭杰,李琳琳 (3745)

《地球科学》2020年11月第45卷第11期要目预告 ..... (3840)

主编 赖旭龙

责任编辑 谢晓红

期刊基本参数: CN 42-1874/P \* 1957 \* m \* A4 \* 376 \* zh \* P \* ¥20.00 \* 1200 \* 26 \* 2020-10

封面照片: 渤海海域混合沉积颗粒、生屑、孔隙特征(杜晓峰提供)

**EARTH SCIENCE**  
**Vol.45 No.10 Oct. 2020**

**CONTENTS**

*Continental Mixed Siliciclastic-Carbonate Sediments and High-Quality Reservoir*

Research Advances of Mixed Siliciclastic and Carbonate Sediments in Continental Rift Basins  
 ... Du Xiaofeng, Xu Changgui, Zhu Hongtao, Xie Xi'ong, Zhu Xiaomin, Liu Keyu, Jiang Zaixing, Zeng Hongliu (3509)

Genesis of High-Quality Mixed Rock Reservoir and Its Exploration Significance in E<sub>s1</sub> around Southeast Margin of Qinnan Sag, Bohai Sea  
 ... Xue Yong'an, Pang Xiaojun, Hao Yiwei, Feng Chong (3527)

Sedimentary Environment and Lithofacies of Fine-Grained Hybrid Sedimentary in Dongying Sag: A Case of Fine-Grained Sedimentary System of the E<sub>s4</sub>  
 ... Liu Huimin, Wang Yong, Yang Yonghong, Zhang Shun (3543)

Impacts of Basement Lithology on Reservoir of Lacustrine Carbonate and Clastic Mixed-Deposition in Member 1 of Shahejie Formation, Bohai Sea Area  
 ... Wang Qingbin, Niu Chengmin, Pan Wenjing, Liu Xiaojian, Hao Yiwei (3556)

Dolomite Origin of Shahejie Formation in Huanghekou Sag, Bohai Bay Basin  
 ... Yao Tingting, Zhu Hongtao, Yang Xianghua, Shi Wenlong, Niu Chengmin (3567)

Reservoir Characteristics and Formation Mechanisms of Lacustrine Carbonate and Volcanics Mixing Sediments, Laizhouwan Sag  
 ... Liu Xiaojian, Wang Qingbin, Dai Liming, Liu Shilei, Hao Yiwei (3579)

Mixed Sediment Characteristics and Geophysical Responses in Northern Area of Liaodong Bay, Bohai Bay Basin  
 ... Wu Kui, Hui Guanzhou, Gao Jinghua, Jia Donghui (3589)

Genetic Mechanism of Allogenic Migrated Sequence Stratigraphic Architecture in Gaobei Area of Nanpu Sag and Its Significance for Sedimentation  
 ... Liu Kexing, Gan Huajun, Chen Si, Meng Lingjian, Li Xiaopeng, Ke Youliang, Ma Jianghao, Wang Siyang (3603)

Distribution Characteristics and Exploration Practice of Mixed Siliciclastic-Carbonate Sediments in Bohai Sea Area  
 ... Xu Wei, Du Xiaofeng, Song Zhangqiang, Li Zhengyu, Li Hong (3618)

Types of Fine-Grained Mixed Sedimentary Rocks of Shahejie Formation and Evolution of Lake Basin in Jiyang Depression, Eastern China  
 ... Ma Yiquan, Liu Huimin, Zhang Shoupeng, Lu Yongchao, Liu Xiaofeng (3633)

Characteristics of Mixed Sedimentary Development and Main Control Factors in Lower Third Member of Shahejie Formation of Southern Slope Belt of Laizhouwan Sag, Bohai Sea  
 ... Wang Qiming, Du Xiaofeng, Wan Liangwei, Fu Xin, Li Xiaohui (3645)

Sedimentary Features and Development Pattern of Mixed Deposition of Paleogene System in Bohai Sea Area  
 ... Song Zhangqiang, Du Xiaofeng, Xu Wei, Lu Huan, Chen Lixiang (3663)

Logging Classification and Recognition of Lacustrine Mixed Sedimentary Reservoirs in First and Second Members of Shahejie Formation in Bohai Sea  
 ... Feng Chong, Dai Liming, Liu Xiaojian, Zhao Meng, Zhang Can (3677)

Geophysical Integrated Prediction Technology of Mixed Rock Reservoir with Genetic Environment Constraints in Bohai Sea Area  
 ... Wang Zhiping, Lü Dingyou, Song Zhangqiang, Chen Yanfang, Yu Xitong (3693)

Depositional System, Plane Distribution and Exploration Significance of Fan-Delta Mixed Siliciclastic-Carbonate Sediments in Lacustrine Basin: An Example of Member 1-2 of Shahejie Formation in Offshore Bohai Bay, Eastern China  
 ... Fu Xin, Du Xiaofeng, Guan Dayong, Wang Qiming, Ye Maosong (3706)

Meteoric Leaching Evidences, Diagenetic Model and Its Geology Significance in Mixed Rock of Steep Slope Zone of Shijiutuo Uplift  
 ... Lu Huan, Wang Qingbin, Niu Chengmin, Du Xiaofeng, Song Zhangqiang, Feng Chong (3721)

Sedimentary Characteristics and Model of Mixed Siliciclastic-Carbonates of Member 1 of Paleogene Shahejie Formation, Huanghekou Sag, Bohai Bay Basin  
 ... Ye Ziqian, Zhu Hongtao, Du Xiaofeng, Yang Xianghua, Yao Tingting, Li Sen (3731)

Mineralization Characteristics and Mechanism of Foraminifera in Mixed Siliciclastic-Carbonate Sediments in Zhujiang Formation of Pearl River Mouth Basin  
 ... Liu Na, Wu Keqiang, Liu Li, Yu Lei, Xu Simeng, Peng Xiaolei (3746)

Features and Model of Mixed Sediments in Lower Submember of First Member of Shahejie Formation in Lixian Slope, Raoyang Sag  
 ... Du Yifan, Zhu Xiaomin, Ye Lei, Gao Yuan (3759)

Lithofacies Characteristics and Formation Environments of Mixed Fine-Grained Sedimentary Rocks in Second Member of Kongdian Formation in Cangdong Depression, Bohai Bay Basin  
 ... Li Yi, Liu Keyu, Pu Xiugang, Chen Shiyue, Han Wenzhong, Zhang Wei, Wang Hu, Liang Chao, Zhao Jianhua (3779)

Reservoir Characteristics and Forming Mechanisms of Lacustrine Mixed Sedimentary Rock of First and Second Members of Shahejie Formation in BZ27-A Structure, Huanghekou Sag  
 ... Dai Liming, Niu Chengmin, Pang Xiaojun, Feng Chong, Wan Lin, Jin Xiaoyan (3797)

Sedimentary and Diagenetic Characteristics of Lacustrine Fine-Grained Hybrid Rock in Paleogene Formation in Dongying Sag  
 ... Teng Jianbin, Liu Huimin, Qiu Longwei, Zhang Shoupeng (3808)

Paleobiological Characteristics and Its Reservoir Significance of Bioclastic Migmatite in First Member of Shahejie Formation in Bohai Sea  
 ... Pan Wenjing, Wang Qingbin, Du Xiaofeng, Tian Derui, Wang Gaiwei, Cao Jie (3827)

Multi-Scale Characterization and Evaluation of Pore-Throat Combination Characteristics of Lacustrine Mixed Rock Reservoir  
 ... Wan Lin, Dai Liming, Tang Guomin, Hao Yiwei, Gao Xilong (3841)

Differences and Genesis of High-Quality Reservoirs of Mixed Siliciclastic-Carbonate Rocks in the E<sub>s12</sub> around Bozhong Depression, Bohai Sea  
 ... Pang Xiaojun, Niu Chengmin, Du Xiaofeng, Wang Qingbin, Dai Liming (3853)

Lithological Exploration and Potential in Mixed Siliciclastic-Carbonate Depositional Area of Eastern Pearl River Mouth Basin  
 ... Liang Wei, Li Xiaoping (3870)