



中国石化集团石油工程技术研究院有限公司 主办

ISSN 1001-0890
CN 11-1763/TE

石油钻探技术

PETROLEUM DRILLING TECHNIQUES

2019年第2期
第47卷（总第224期）

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



科学出版社
Science Press

三 次

■ 专家视点

- 塔河油田钻井完井技术进步与展望 张平, 贾晓斌, 白彬珍, 宋海 (1)

■ 钻井完井

- 新疆玛湖油田砂砾岩致密油水平井钻井关键技术 路宗羽, 赵飞, 雷鸣, 邹灵战, 石建刚, 卓鲁斌 (9)
玛湖油田玛18井区“工厂化”水平井钻井技术 秦文政, 党军, 藏传贞, 李保伦, 雷鸣 (15)
威远区块深层页岩气水平井水基钻井液技术 林永学, 甄剑武 (21)
苏北盆地戴南组和阜宁组地层取心关键技术 曹华庆, 龙志平 (28)
深水钻井浅水流地层井眼坍塌影响因素分析 孙金, 吴时国, 邓金根, 王吉亮 (34)
深水油气井关井期间井筒含天然气水合物相变的气泡上升规律研究
韦红术, 杜庆杰, 曹波波, 王志远, 孙宝江, 刘争 (42)
高温高压对微波破岩效果的影响模拟研究 胡亮, 马兰荣, 谷磊, 李丹丹, 韩艳浓 (50)
深水钻井管柱系统动力学分析与设计方法研究 廖茂林, 周英操, 苏义脑, 连志龙, 蒋宏伟 (56)
涪陵页岩气田平桥南区块钻井岩屑综合利用技术 夏海帮, 包凯, 王玉海, 周成香, 杨玉坤 (63)
拉扭复合载荷条件下V150钻杆的力学性能研究 舒志强, 欧阳志英, 袁鹏斌 (68)
固井用热固性树脂-镁氧水泥复合材料研究 陈雷, 周仕明, 赵艳, 高元, 谭春勤, 徐春虎 (74)
油基钻井液用冲洗液PC-W31L的制备及性能研究 陈小华, 张福铭, 赵琥, 代丹, 王雪山 (81)

■ 油气开发

- 杭锦旗区块致密气藏混合水体积压裂技术 贾光亮, 邵彤, 殷晓霞, 姜尚明, 徐文斯, 王玉柱 (87)
基于节点网络的水平井分段流入剖面预测方法 庞伟, 刘理明, 何祖清, 何同, 王国华 (93)
中短半径井眼固井防砂一体化管柱研究与试验 郝宙正, 左凯, 刘禹铭, 李宁, 魏爱拴, 王明杰 (99)
水平井油管传输标记物分段找水技术 于永生, 廖汉明, 齐行涛, 刘贺, 张祖峰, 邵彦峰 (105)
SXJD-I型低伤害暂堵修井液技术 赵全民, 李燕, 刘浩亚, 何青水, 唐文泉 (109)

■ 测井录井

- 随钻高分辨率电阻率成像仪器探测特性研究 倪卫宁, 康正明, 路保平, 柯式镇, 李新, 李铭宇 (114)
基于线性仿真的高频磁耦合有缆钻杆信道建模 胡永建, 王岚 (120)

责任编辑: 滕春鸣 编辑: 令文学, 刘文臣 英文编辑: Susan Smith Nash 英文翻译: 徐恩信, 张保平, 赵金海

期刊基本参数: CN 11-1763/TE * 1973 * b * A4 * 126 * zh * P * ¥30.00 * 2000 * 20 * 2019—03

CONTENTS

■ Expert Viewpoint

- Progress and Outlook on Drilling and Completion Technologies in the Tahe Oilfield
..... ZHANG Ping , JIA Xiaobin , BAI Binzen , SONG Hai (1)

■ Drilling & Completion

- Key Technologies for Drilling Horizontal Wells in Glutonite Tight Oil Reservoirs in the Mahu Oilfield of Xinjiang
..... LU Zongyu , ZHAO Fei , LEI Ming , ZOU Lingzhan , SHI Jiangang , ZHUO Lubin (9)
Factorization Drilling Technology of the Horizontal Well in the Ma18 Well Block of the Mahu Oilfield
..... QIN Wenzheng , DANG Jun , ZANG Chuanzhen , LI Baolun , LEI Ming (15)
Water Based Drilling Fluid Technology for Deep Shale Gas Horizontal Wells in Block Weiyuan
..... LIN Yongxue , ZHEN Jianwu (21)
Key Coring Technologies for the Dainan Formation and Funing Formation in North Jiangsu Basin
..... CAO Huaqing , LONG Zhiping (28)
Analysis of the Contributing Factors to Wellbore Collapse in Shallow Water Flow Formations for Deepwater Drilling
..... SUN Jin , WU Shiguo , DENG Jingren , WANG Jiliang (34)
The Ascending Law of Gas Bubbles in a Wellbore Considering the Phase Change of Natural Gas Hydrates during Deepwater Well Shut-in
..... WEI Hongshu , DU Qingjie , CAO Bobo , WANG Zhiyuan , SUN Baojiang , LIU Zheng (42)
Simulation Study on the Influences of HTHP on the Results of Microwave Rock Breaking
..... HU Liang , MA Lanrong , GU Lei , LI Dandan , HAN Yannong (50)
A Study of the Dynamic Analysis and Design Method of Deepwater Drilling String Systems
..... LIAO Maolin , ZHOU Yingcao , SU Yinao , LIAN Zhilong , JIANG Hongwei (56)
An Integrated Drilling Cuttings Utilization Technique in the South Pingqiao Block of the Fuling Shale Gas Field
..... XIA Haibang , BAO Kai , WANG Yuhai , ZHOU Chengxiang , YANG Yukun (63)
The Mechanical Performance of V150 Drill Pipe under Combined Tension-Torsion Loading
..... SHU Zhiqiang , OUYANG Zhiying , YUAN Pengbin (68)
Study of a Thermosetting Resin-Magnesia Cement Composite for Cementing
..... CHEN Lei , ZHOU Shimeng , ZHAO Yan , GAO Yuan , TAN Chunqin , XU Chunhu (74)
The Development and Properties of PC-W31L Flushing Fluid for Oil-Based Drilling Fluid
..... CHEN Xiaohua , ZHANG Fuming , ZHAO Hu , DAI Dan , WANG Xueshan (81)

■ Oil & Gas Exploitation

- Volumetric Fracturing with Mixed Water in Tight Gas Reservoirs in the Hangjinqi Block
..... JIA Guangliang , SHAO Tong , YIN Xiaoxia , JIANG Shangming , XU Wensi , WANG Yuzhu (87)
A Dynamic Prediction Method for Segmental Flow Performance in Horizontal Wells Based on Node Networks
..... PANG Wei , LIU Liming , HE Zuqing , HE Tong , WANG Guohua (93)
Research and Testing of the Integrated String for Cementing and Controlling Sand in a Medium-Short Radius Wellbore
..... HAO Zhouzheng , ZUO Kai , LIU Yuming , LI Ning , WEI Aishuan , WANG Mingjie (99)
Segmented Water Location Technology via Conveyed Tubing Marker for Horizontal Wells
..... YU Yongsheng , LIAO Hanming , QI Xingtao , LIU He , ZHANG Zufeng , SHAO Yanfeng (105)
The Technology of SXJD- I Type Low Damage Temporary Plugging Workover Fluid
..... ZHAO Quanmin , LI Yan , LIU Haoya , HE Qingshui , TANG Wenquan (109)

■ Well Logging & Surface Logging

- The Detection Characteristics of a High Resolution Resistivity Imaging Instrument while Drilling
..... NI Weining , KANG Zhengming , LU Baoping , KE Shizhen , LI Xin , LI Mingyu (114)
Modeling High-Frequency Magnetic Coupling Wired Drill Pipe Channel Based on Linear Simulation
..... HU Yongjian , WANG Lan (120)

Duty Editor: Teng Chunming **Editor:** Ling Wenxue, Liu Wenchen **English Editor:** Susan Smith Nash **English Translator:** Xu Enxin, Zhang BaoPing, Zhao Jinhai

Serial parameters: CN 11-1763/TE * 1973 * b * A4 * 126 * zh * P * ¥30.00 * 2000 * 20 * 2019—03