

PETROLEUM TUBULAR GOODS & INSTRUMENTS

ISSN 2096-0077

CN 61-1500/TE

石油管材与仪器

SHIYOU GUANCAI YU YIQI

中国石油学会石油管材专业委员会会刊

双月刊

2022 Vol. 8

2

《中国石油文献数据库》收录期刊
《中国期刊全文数据库》全文收录期刊
《中文科技期刊数据库》原文收录期刊
《中国核心期刊(遴选)数据库》收录期刊
《中国学术期刊影响因子年报》统计源期刊
《中国学术期刊综合评价数据库》统计源期刊



主管:中国石油天然气集团有限公司

主办:中国石油集团工程材料研究院有限公司

万方数据

目次



本刊微信公众号

■ 综述

- 1 石油天然气工业绿色低碳工作实践和标准化探索
..... 许晓锋,秦长毅,张 华,李炎华,吕 华,陈心怡
- 5 油气开采用功能压裂支撑剂的研究进展
..... 蔡 克,薛 凯,陈奋华,靳 权,宋恩鹏,康红勃
- 14 井下压裂工具用可溶解铝合金材料中国专利分析
..... 李二行,何 志,孙 良,董 会,翟文彦

■ 试验研究

- 19 基于套管损伤分析的射孔关键参数优化研究
..... 慈建发,刘献博,李 军,杨宏伟,柳贡慧,文 涛
- 23 页岩气井多级压裂过程中地应力变化对套管载荷的影响
..... 吴建忠,张小军,李 军,张 慧,连 威,刘鹏林
- 30 新型溶垢解堵技术在西部油田某转油站外输管线的应用效果研究
..... 马 超,李小龙,鲜 俊,夏明明,李丹平,范 磊

■ 腐蚀与防护

- 34 井下挂环技术在多元热流体井筒腐蚀监测中的应用
..... 罗 鸣,高德利,李 军,李文拓,刘金璐,杨宏伟
- 38 原油电脱盐参数筛选及脱后原油盐含量的模拟溶液对 20# 钢的腐蚀行为研究
..... 彭 洋,徐秀清,付安庆,郑兴文
- 43 基于统计数据的油田集输管道内腐蚀影响因素分析
..... 李 明,马一鸣,杨 威,蔡 亮,梁昌晶

■ 失效分析与预防

- 48 某井随钻扩眼器接头外螺纹断裂原因分析 邝献任,邢 星,闫 湃
- 54 无磁钻铤开裂失效分析 靳 权,李锐峰,栾 晖,薛 凯,蔡 克,宋恩鹏,郝凤丹
- 60 套铣钻杆接头螺纹断裂分析与有限元模拟 丁洁琼,鲁喜宁,高连新

■ 仪器设备与应用

- 65 检波器埋置工序数字化管理技术 杜清波,杨 韬,孙 哲,胡永贵,张洪涛,接铭丽,王秋成
- 69 同井网上返开发停层封堵效果评价方法优化 侯文斌,杜东旭,邓亨建
- 74 基于多标准层的测井标准化方法及其应用
..... 胡春桥,张洪美,黄 峰,李 娜,马二平,张 格,于 珺,孟旺才
- 78 双磁记号无线传输装置的设计与应用 张林通

■ 经验交流

- 82 枯竭油气藏型储气库老井再利用可行性分析
..... 乔智国,刘鹏林,李 军,王兆会,连 威,宋学锋
- 90 地震勘探中“串感应”产生原因分析及处理
..... 赵 杰,康旭鹏,燕想吉,李 恒,王 荣,靳恒杰
- 93 eSeis 节点采集单元常见故障解析 艾 梅,卢 涛,曲学政,井 乔,王 钊
- 98 ECIM55402 径仪无法开收腿故障分析及解决办法
..... 潘明宇,吴学涛,彭宏文,杨 爽,姚劲松
- 29 《石油管材与仪器》首届青年编委会招募启事
- 53 广告索引

主管单位: 中国石油天然气集团有限公司
 主办单位: 中国石油集团工程材料研究院有限公司
 主 编: 冯耀荣
 副 主 编: 马小芳 姜 婷
 本期责编: 屈忆欣
 英文编辑: 屈忆欣
 技术编辑: 王 骏

编辑出版: 《石油管材与仪器》编辑部
 本刊地址: 西安市锦业二路89号
 邮政编码: 710077
 编 辑: 029-81887825 81887589
 投 稿: 029-81887585
 广告发行: 029-81887585
 网 址: www.gcyq.net
 电子邮箱: sygcyq@126.com
 发 行: 《石油管材与仪器》编辑部
 印 刷: 陕西省委机关第二印刷厂
 国际标准连续出版物号: ISSN 2096 - 0077
 国内统一连续出版物号: CN 61-1500/TE
 邮发代号: 52-286
 广告经营许可证号: 6101004003048
 单册定价: 20.00元
 全年定价: 120.00元

BIMONTHLY. Started in 2015

Apr. 1st, 2022
Vol.8
No.2 (Serial No.44)

PETROLEUM TUBULAR GOODS & INSTRUMENTS

CONTENTS

OVERVIEW

- 1 Practice and Standardization of Green and Low-carbon Work in Oil and Natural Gas Industry
..... XU Xiaofeng, QIN Changyi, ZHANG Hua, LI Yanhua, LYU Hua, CHEN Xinyi
- 5 Research Progress of Functional Fracturing Proppants in Oil and Gas Development
..... CAI Ke, XUE Kai, CHEN Fenghua, JIN Quan, SONG Enpeng, KANG Hongbo
- 14 Analysis of Chinese Patent of Dissolvable Aluminum Alloy Material Used for Downhole Fracturing Tools
..... LI Erhang, HE Zhi, SUN Liang, DONG Hui, ZHAI Wenyan

EXPERIMENTS AND INVESTIGATION

- 19 Optimization of Perforation Key Parameters Based on Casing Damage Analysis
..... CI Jianfa, LIU Xianbo, LI Jun, YANG Hongwei, LIU Gonghui, WEN Tao
- 23 Influence of In-situ Stress Variation on Casing Load During Multi-stage Fracturing of Shale Gas Well
..... WU Jianzhong, ZHANG Xiaojun, LI Jun, ZHANG Hui, LIAN Wei, LIU Penglin
- 30 Application Effect of New Scale-dissolving and Block-removal Technology in the Export Pipeline of an Oil Transfer Station
..... MA Chao, LI Xiaolong, XIAN Jun, XIA Mingming, LI Danping, FAN Lei

CORROSION AND PROTECTION

- 34 Application of Downhole Hanging Ring Technology in Multiple Thermal-fluid Well Corrosion Monitoring
..... LUO Ming, GAO Deli, LI Jun, LI Wentuo, LIU Jinlu, YANG Hongwei
- 38 Selection of Electric Desalting Parameters and Corrosion Behavior of 20# Steel in Solution Simulating Desalted Crude Oil
..... PENG Yang, XU Xiuqing, FU Anqing, ZHENG Xingwen
- 43 Influencing Factors of Internal Corrosion of Oil Gathering and Transportation Pipelines Based on Statistical Data
..... LI Ming, MA Yiming, YANG Wei, CAI Liang, LIANG Changjing

FAILURE ANALYSIS AND PREVENTION

- 48 Fracture Analysis of External Thread of Reamer Joint While Drilling
..... KUANG Xianren, XING Xing, YAN Pai
- 54 Failure Analysis of the Non-magnetic Drill Collar Crack
..... JIN Quan, LI Rui Feng, LUAN Hui, XUE Kai, CAI Ke, SONG Enpeng, HAO Fengdan
- 60 Thread Fracture Analysis and Finite Element Simulation of Drill Pipe Joint
..... DING Jieqiong, LU Xining, GAO Lianxin

INSTRUMENT AND EQUIPMENT

- 65 The Technique of Digital Management for Geophone Planting Procedure
..... DU Qingbo, YANG Tao, SUN Zhe, HU Yonggui, ZHANG Hongtao, JIE Mingli, WANG Qiucheng
- 69 Optimization of Evaluation Method for Plugging Effect of Injection Stopping Stratum in the Same Well Network Developing
..... HOU Wenbin, DU Dongxu, DENG Hengjian
- 74 Research and Application of Log Normalization Based on Multiple Index Beds
..... HU Chunqiao, ZHANG Hongmei, HUANG Feng, LI Na, MA Erping, ZHANG Ge, YU Jun, MENG Wangcai
- 78 Design and Application of Wireless Dual Magnetic Mark Transmission Device
..... ZHANG Lintong

EXPERIENCE EXCHANGE

- 82 Feasibility Analysis on the Reuse of Gas Storage Old Wells in Depleted Oil and Gas Reservoirs
..... QIAO Zhiguo, LIU Penglin, LI Jun, WANG Zhaohui, LIAN Wei, SONG Xuefeng
- 90 Reason Analysis and Treatment of "String Induction" in Seismic Exploration
..... ZHAO Jie, KANG Xupeng, YAN Xiangji, LI Heng, WANG Rong, JIN Hengjie
- 93 Analysis of Common Faults of eSeis Node Acquisition Unit
..... AI Mei, LU Tao, QU Xuezheng, JING Qiao, WANG Chai
- 98 Trouble Analysis and Solutions of ECIM55402 Caliper Tool
..... PAN Mingyu, WU Xuetao, PENG Hongwen, YANG Shuang, YAO Jinsong

Responsible Authority : China National Petroleum Corporation
Sponsor : CNPC Tubular Goods Research Institute
Editor in Chief : Feng Yaorong
Vice chief-editor: Ma Xiaofang Jiang Ting
Editor in Charge: Qu Yixin
English Editor: Qu Yixin
Technical Editor: Wang Jun

Editor and Publisher:

Editorial Department of
PETROLEUM TUBULAR GOODS & INSTRUMENTS
Address: No.89 Jinye 2nd Road, Xi'an, China
Post Code: 710077
Editor Tel : (029) 81887825 81887589
Manuscript Tel: (029)81887585
Advertisement Tel: (029)81887585
Website: <http://www.gcyq.net>
E-mail: sygcyyq@126.com
Distributor: Editorial Department of
PETROLEUM TUBULAR GOODS & INSTRUMENTS
Printer: The Second Printing Factory of
Shaanxi Shengwei Jiguan
Periodical Registration: ISSN 2096-0077
CN 61-1500/TE
Postal Code: 52-286
Advertisement License: 6101004003048
Subscription Rates: RMB 20.00 per copy
RMB 120.00 per year