

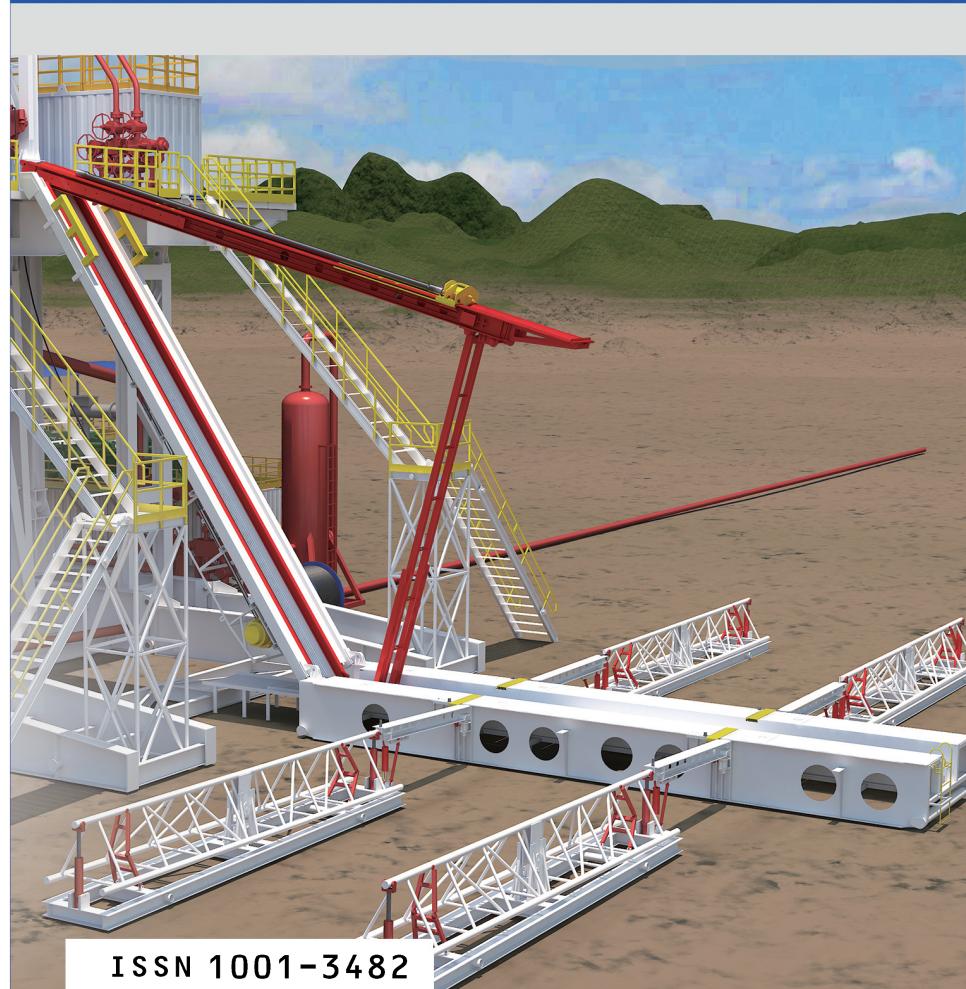
石油矿场机械

Oil Field Equipment

2021
第50卷 1

主管：中国机械工业集团有限公司
主办：兰州石油机械研究所有限公司

自动化管柱处理系统
实现钻井自动化作业



ISSN 1001-3482



动力猫道



钻台扶正机械手

石油矿场机械

SHIYOU KUANGCHANG JIXIE

目 次

第1期(总第358期)第50卷

2021年1月25日出版

专题研究 · 气井中旋流式引射器性能影响因素研究

..... 赵佳乐,任连城,金 鑫,邱正阳,谢 帅,魏长吉,曾繁荣,蔡少辉(1)

· 钻井液连续循环短节结构优化设计与分析

刘 强,张武辇(7)

设计计算 · 海洋导管架四轮磁吸附式水下清洗机器人设计

..... 岳春梅,刘书海,姜明明(15)

· 张力腿平台模块钻机井架设计及风动力学分析

..... 侯 敏,李汶东,张友会,廉光义,雷传军,李鹏举(23)

· 4 200 r/min 卧螺离心机转鼓和螺旋输送器结构参数优选

..... 张增年,席建秋,刘东方,李华川,蒋 锐,刘少胡,甘泉泉(30)

试验研究 · S310 系列钻井液振动筛性能现场测试分析

..... 王 奇,侯召坡,李凤玉,牟长清,柴占文,张 杰,高 洁(36)

· 35 MPa 环空放气阀设计及试验

李宝龙,齐海涛,王明杰,

左 凯,郝宙正,包陈义,孔学云,姚智翔,闫 绅(49)

开发利用 · CDS 系统下全漂浮套管串工艺及技术分析

..... 魏裕森,王跃曾,张新平,陈绪跃(55)

· 增材制造技术在井下工具中应用及问题分析

..... 游 娜,樊春明,段树军,王德贵,左永强,惠坤亮(62)

· QT-127 型全通径无级投球压裂滑套研制

..... 王明杰,魏爱拴,包陈义,李宝龙,严孟凯,段 威(69)

· 偏心分层注水井一体化验封测调工具研制

王 超(73)

· 滑动推靠式垂直钻井系统结构性能优化及应用

..... 陶松龄,陈世春,徐明磊,黄 峰,汝大军,郭云鹏,马 哲,魏庆振(77)

· CGDS 近钻头地质导向钻井系统搭载伽马成像技术

..... 潘兴明,张海波,石 倩,王 晨,李明印(84)

· 膏盐层局部高抗挤固井工具结构及施工工艺

..... 季小娜,张京华,刘义彬,王志刚,田晓勇,蒋立坤(89)

· 压裂机组柴油机燃料油集中连续供油装置研制

..... 曾 琚,刘有平,席建秋,贺殷凯,侯勇俊,李华川,曾从良,王俊玉(94)

· 新型高温高压封隔器组合式胶筒结构设计及试验

..... 闫志远,张 斌,吴永朝,白元彬,包陈义,唐马勇,李小岭(99)

· 投稿须知

(72)

· 下期目次预告

(93)

期刊基本参数:CN62-1058/ TE * 1972 * b * A4 * 104 * zh * P * ¥20.00 * 2200 * 16 * 2021-01

OIL FIELD EQUIPMENT(OFE)

(Started in 1972)

Vol. 50 №1(Ser. 358, Bimonthly)

January. 25, 2021

CONTENTS

• MONOGRAPHIC STUDY •

- Study on Influence Factors of Cyclone Ejector Performance in Gas Well
ZHAO Jiale, REN Liancheng, JIN Xin, QIU Zhengyang, XIE Shuai, WEI Changji, ZENG Fanrong, CHAI Shaohui (1)
Optimal Design and Analysis of Drilling Fluid Continuous Circulation Sub Structure LIU Qiang, ZHANG Wunian (7)

• DESIGN AND CALCULATION •

- Design of Four-wheel Magnetic Adsorption Underwater Cleaning Robot for Offshore Platform Jacket
..... YUE Chunmei, LIU Shuhai, JIANG Mingming (15)
The Design Analysis and Wind Induced Motion of the Derrick for TLP Module Drilling Rig
..... HOU Min, LIN Wendong, ZHANG Youhui, LIAN Guangyi, LEI Chuanjun, LI Pengju (23)
Optimization of the Structure Parameters of the Drum and Screw Conveyor for 4 200 r/min Decanter Centrifuge
..... ZHANG Zengnian, XI Jianqiu, LIU Dongfang, LI Huachuan, JIANG Rui, LIU Shaohu, GAN Quanquan (30)

• TEST STUDY •

- Field Test Research on Optimized Double Track Vibrating Screen for Drilling Waste Liquid
..... WANG Qi, HOU Zhaoopo, LI Fengyu, MU Changqing, CHAI Zhanwen, ZHANG Jie, GAO Jie (36)
Development of an Annular Gas Vent Valve LI Baolong, QI Haitao, WANG Mingjie, ZUO Kai, HAO Zhouzheng
BAO Chenyi, KONG Xueyun, YAO Zhixiang, YAN Shen (49)

• DEVELOPMENT AND APPLICATION •

- Casing Drive System Running Full Floating Casing Technology
..... WEI Yusen, WANG Yuezeng, ZHANG Xinpings, CHEN Xuyue (55)
Application and Problem Analysis of Additive Manufacturing in Downhole Tools
..... YOU Na, FAN Chunming, DUAN Shujun, WANG Degui, ZUO Yongqiang, HUI Kunliang (62)
Development of QT-127 Full-diameter and Step-less Sliding Sleeve
..... WANG Mingjie, WEI Aishuan, BAO Chenyi, LI Baolong, YAN Mengkai, DUAN Wei (69)
Development of the Integrated Seal Checking and Adjustment Tool for Eccentric Stratified Injection Well
..... WANG Chao (73)
Structural Performance Optimization and Field Application of the Sliding Push Type Vertical Drilling System
..... TAO Songling, CHEN Shichun, XU Minglei, HUANG Feng, RU Dajun, GU Yunpeng, MA Zhe, WEI Qingzhen (77)
CGDS Near-bit Geosteering Drilling System Equipped with Gamma Imaging Technology
..... PAN Xingmin, ZHANG Haibo, SHI Qian, WANG Chen, LI Mingyin (84)
The High Resistance Extrusion Cementing Tool Structure and Construction Technology in the Gypsum-salt Rock
..... JI Xiaona, ZHANG Jinghua, LIU Yibin, WANG Zhigang, TIAN Xiaoyong, JIANG Likun (89)
Development of Centralized and Continuous Fuel Supply Device for Diesel Engines of Fracturing Units
..... ZENG Jun, LIU Youping, XI Jianqiu, HE Yinkai, HOU Yongjun, LI Huachuan, ZENG Congliang, WANG Junyu (94)
Structural Design and Test of a New Type of Combined Rubber Barrel for High Temperature and High Pressure Packer ...
..... YAN Zhiyuan, ZHANG Bin, WU Yongzhao, BAI Yuanbin, BAO Chenyi, TANG Mayong, LI Xiaoling (99)