



油气田地面工程

OIL-GAS FIELD SURFACE ENGINEERING

● 第 31 卷 Vol.31

8
2012



大庆油田设计院

ISSN 1006-6896



中国石油天然气集团公司 主管
大庆油田有限责任公司 主办

月刊 1978年创刊 核心期刊
 <中国期刊网> 加盟期刊
 <中国学术期刊(光盘版)> 收录期刊
 万方数据系统 <科技期刊群> 入网期刊
 第31卷第8期(总第252期)
 2012年8月20日出版
 国内外公开发刊

主管 中国石油天然气集团公司
 主办 大庆油田有限责任公司
 承办 大庆油田设计院
 编辑出版 油气田地面工程杂志社
 广告许可 2306004000203

电话 (0459)5903568
 网站 <http://www.yqtdmgc.com>
 信箱 yqtdmgc@petrochina.com.cn

编委会主任 谢中立
 主编 张良杰
 副主编 王德祥
 责任编辑 杨军
 版式设计 王萌
 印刷装订 大庆市金立包装印刷有限公司

国内发行 黑龙江省大庆市邮局
 国内订阅 全国各地邮局
 邮发代号 14-89
 国外发行 中国国际图书贸易总公司

全年订价 120元

| | |
|--|------------------|
| 行业论坛 | |
| 高含硫气田集输系统硫的沉积及预防 | 蒋洪 张哲(1) |
| 大港油田南部油区生活污水回注的可行性 | 袁润成 周爽 金华等(4) |
| 高寒地区管道施工的HSE管理 | 李林 李静 王彦锋等(7) |
| 用高分辨率遥感影像更新油田道路数据库 | 韩海刚 黄玉洁(9) |
| 高效油田观光旅游区建设工程的管理 | 辜新军 杨微微 买斌虎等(11) |
| 试验研究 | |
| 深层气井流动短节断脱原因* | 李忠杰 王博超 熊健等(13) |
| 聚合物对三元复合注入体系结垢的影响* | 张晓磊 李尚海(15) |
| 输油管道清管器的有效运行距离 | 杜炳洁 宋晓琴 于进(17) |
| 新疆油田风城超稠油的破乳脱水实验 | 杨林 罗小玲 何天鹏等(19) |
| 气井出水水源识别的思路与方法 | 于希南 宋健兴 高修钦等(21) |
| 不同注入阶段强碱三元复合驱采出液的处理 | 李娜(23) |
| 低渗透储层水锁效应实验 | 孟庆峰(25) |
| 注入耐高温泡沫凝胶改善吸汽剖面实验模拟 | 盖帅(27) |
| 采出水 Al ₂ O ₃ 陶瓷膜处理技术现场试验 | 杨景荣(29) |
| 改进的TOPSIS法用于油气管道穿越河流方案选择 | 吴昊(30) |
| 防清垢技术在萨南油田的应用 | 朱帅(32) |
| 单亲遗传和深度优先搜索算法的集输管网优化 | 陈坤明 简朝明 刘松泉等(34) |
| 规划设计 | |
| 一体化集成装置在长庆油田地面建设中的应用 | 张朝阳 李时宣(36) |
| 油砂热采地面处理工艺设计 | 张磊(38) |
| 稠油地面系统的建设 | 段炜华(40) |
| 大庆油田天然气输配工艺设计 | 王亚轩 赵慧(42) |
| 海塔油田小型站场标准化设计 | 林晓莉(43) |
| 现代工厂配管设计计算机系统的智能化技术 | 李铭(45) |
| 真空加热炉波形炉胆成型新工艺 | 潘斌(47) |
| 集输处理 | |
| 综合物理除油加磁过滤技术处理含油污水 | 王法芹(48) |
| 地面集输管线中频感应加热技术 | 田鸣邦 赵治理 苗新松等(50) |
| 高含碳天然气脱碳净化工艺优化 | 付源(52) |
| 柔性复合高压输送管在单井集输系统中的应用 | 赵军艳 蔡共先(53) |
| 高含聚采出水三维超导催化处理技术 | 洪光(55) |
| 大庆油田含油污泥的处理 | 金彦雄(56) |
| 仪表自控 | |
| 双管柱水平井动态测井新工艺 | 常孝森(57) |
| 天然气压缩机组故障停机的分析与处理 | 孙燕辉(59) |
| 二连油田变电站集控化技术思路与方向 | 杜洪 卢宇光(61) |
| 油田生产中等电位联结技术及其作用 | 李中华(63) |
| GI57测井系统在河南油田的应用 | 孙旭光 李强 张亚莉(64) |
| 配电线路故障的在线监测 | 刘金海(66) |
| SUE3000装置在大庆石化公司的应用 | 苏彬(67) |
| 生产管理 | |
| 萨北开发区电脱水器工艺结构改造 | 李瑞红(68) |
| 石南21集中处理站原油储罐腐蚀与防护对策 | 易新愚(70) |
| 沙漠腹地油田生产区域的应急体系建设 | 李泽伟 朱晓虎 安静等(72) |
| 原油泄漏爆炸事故的处置 | 余青原(74) |
| 海上油气集输系统决策平台的构建 | 黄鑫(76) |
| 大型钢制内浮顶储罐单盘焊接变形控制 | 陈思(78) |
| 漠大原油管道伴行路多年冻土路基施工技术 | 吕娜 孙健 刘文彦(79) |
| 油气田彩色混凝土路面施工 | 郝景生 刘文彦 樊耳东(81) |
| T2紫铜管与1Cr18Ni9Ti板的管板焊接工艺 | 纪海涛(82) |
| 油田道路施工质量控制 | 谢金莉 易伟(83) |
| 论项目总监理工程师的综合素质 | 陆顺才(84) |
| 工程量清单计价模式下的工程投资控制方法 | 钱秀莉(85) |
| 预制产品质量的监督控制 | 靳明恂(86) |
| 采油厂信息化建设和油田生产数据质量控制 | 姜春梅(87) |
| 燃气供销差率的因果关系 | 李晓波(88) |
| 技术纵横 | |
| 地下储气库放空技术探讨 | 王东军 孟凡彬 齐德珍(89) |
| 抽油杆在线检测技术 | 吴刚(91) |
| 镍基高温合金表面渗铝层的热腐蚀试验 | 李玉春 杜保成 付保红等(92) |
| 高含水后期油藏数值模拟技术 | 闫长新(93) |
| 水解对重烷基苯磺酸中和值的影响 | 孙宏庆 邓发强(94) |
| 稠油埋地单井管线新型防腐保温结构 | 张彦军 韩文礼 张红磊等(95) |
| 产品视点 | |
| 水锤消除装置 | 任重海 许世芹(96) |
| 注入井新型电子式套压表 | 高宏海(98) |
| 防泄漏双压帽光杆密封器 | 初玉林(100) |
| 玻璃钢管道在油田应用中的问题 | 张向东(101) |
| 组合电极电脱水器 | 陈克宁(102) |

Vol.31 No.8 August 2012

INDEX

- | | |
|---|----------------------|
| 1. Deposition and Prevention of Sulfur in High-sulfur Gas Field Gathering System | Jiang Hong et al |
| 4. Feasibility of Domestic Sewage Reinjection in the South of Dagang Oilfield | Yuan Runcheng et al |
| 7. HSE Management of Pipeline Construction in the High Cold Area | Li Lin et al |
| 9. Updating Road Data of Oilfield Database Using High-resolution Remotely Sensed Image | Han Haigang et al |
| 11. Construction Management of High-efficiency Oilfield Tourist Area | Gu Xinjun et al |
| 13. Reasons of Flow Coupling Breaking off in Underground of Deep Gas Wells | Li Zhongjie et al |
| 15. Impact on Scaling Formation by PAM in ASP Flooding Injecting System | Zhang Xiaolei et al |
| 17. Available Distance of Pig in Oil Pipeline | Du Xinjie et al |
| 19. Experiment of Demulsification and Dehydration for Super Heavy Oil of Wind City in Xinjiang Oilfield | Yang Lin et al |
| 21. Ideas and Methods for Water Source Identification of Water Production of Gas Well | Yu Xinan et al |
| 23. Treatment of ASP Flooding Produced Fluid in Different Water Injection Stage | Li Na |
| 25. Laboratory of Water Lock Effect in Low Permeability Reservoir | Meng Qingfeng |
| 27. Simulation Experiment on Improvement of Steam Conformance by Thermal Foamed Gel | Gai Shuai |
| 29. Field Test on the Technology of Produced Water Al_2O_3 Ceramic Coating Treatment | Yang Jingrong |
| 30. Application of Improved TOPSIS Method on the Selection of Crossing the River Project for Oil-Gas Pipeline | Wu Hao |
| 32. Application of Scale Removal and Prevention Technology in Sanan Oilfield | Zhu Shuai |
| 34. Optimization of Gathering Pipeline Network Based on Partheno-genetic and Depth-first Search Algorithm | Chen Kunming et al |
| 36. Application of Integration Devices in Changqing Oilfield Surface Construction | Zhang Zhaoyang et al |
| 38. Ground Processing Design of Oil Sands from Thermal Recovery | Zhang Lei |
| 40. Construction on Heavy Oil Surface System | Duan Weihua |
| 42. Design for Natural Gas Transmission Process in Daqing Oilfield | Wang Yaxuan et al |
| 43. Standardization Design in Small Station of Haita Oilfield | Lin Xiaoli |
| 45. Intelligent Technology of Computer System of Piping Design in Modern Factory | Li Ming |
| 47. New Process of Furnace Gall Molding of Wave Shape for Vacuum Heating Boiler | Pan Bin |
| 48. Comprehensive Physical Deoiling and Magnetic Filtered Technology on Wastewater Treatment | Wang Faqin |
| 50. Technology of Medium Frequency Induction Heating in Ground Gathering Line | Tian Mingbang et al |
| 52. Process Optimization of Decarburization and Purification for High-carbon Natural Gas | Fu Yuan |
| 53. Application of Flexible Composite High-pressure Pipeline in Single Well Gathering System | Zhao Junyan et al |
| 55. Three-Dimensional Superconducting Catalysis Technique for Treatment of Produced Water Containing High Concentration Polymer | Hong Guang |
| 56. Technology of Oily Sludge Treatment in Daqing Oilfield | Jin Yanxiong |
| 57. New Process of Dynamic Logging for Dual String Horizontal Wells | Chang Xiaosen |
| 59. Analysis and Treatment of Fault Shutdown of Natural Gas Compressor Unit | Sun Yanhui |
| 61. Ideas and Direction on Centralized Control Technology of Erlian Oilfield Substation | Du Hong et al |
| 63. Equipotential Bonding Technology and Its Function in Oilfield Production | Li Zhonghua |
| 64. Application of G157 Logging System in Henan Oilfield | Sun Xuguang et al |
| 66. Monitoring On-line of the Faults of Power Distribution Lines | Liu Jinhai |
| 67. Application of SUE3000 Set in Daqing Petrochemical Corporation | Su Bin |
| 68. Structure Improvement of Electric Dehydrator Process of Sabei Development District | Li Ruihong |
| 70. Countermeasures on Corrosion and Prevention for Crude Oil Storage Tank of Shinan 21 Central Treatment Plant | Yi Xinyu |
| 72. Emergency System Construction of Oilfield Production Area in the Desert | Li Zewei et al |
| 74. Treatment of Leakage and Explosion Accident for the Crude Oil | Yu Qingyuan |
| 76. Construction on Decision-making Platform for Oil & Gas Gathering and Transferring System on the Offshore | Huang Xin |
| 78. Deformation Control of Single Tray Welding on Large Steel Inner Floating Roof Storage Tank | Chen Si |
| 79. Construction on Permafrost Road Bed of Mo-Da Crude Oil Pipeline | Lv Na et al |
| 81. Colored Concrete Pavement Construction in the Oil-Gas Field | Hao Jingsheng et al |
| 82. Tube-Sheet Welding Process of Red Copper Tube T2 and Sheet 1Cr18Ni9Ti | Ji Haitao |
| 83. Construction Quality Control of Road in the Oilfield | Xie Jinli et al |
| 84. Overall Quality of the Supervising Engineer on the Project | Lu Shunca |
| 85. Engineering Investment Control Method of Engineering Quantities Bill Bidding Mode | Qian Xiuli |
| 86. Supervision Control of Precast Production Quality | Jin Mingxun |
| 87. Information System Construction of Oil Production Factory and Quality Control of Oilfield Production Data | Jiang Chunmei |
| 88. Causal Relations for Ratio of Supplying and Marketing of Gas | Li Xiaobo |
| 89. Discussion on Gas Venting Technology Underground Gas Storage | Wang Dongjun et al |
| 91. Online Detection Technology of Sucker Rod | Wu Gang |
| 92. Hot Corrosion Test on Aluminized Coating of Ni-base Superalloy | Li Yuchun et al |
| 93. Technology of Reservoir Numerical Simulation in Late High Water Cut Period | Yan Changxin |
| 94. Influence of Hydrolysis on Neutralization Number of Heavy Alkylbenzene Sulfonic | Sun Hongqing et al |
| 95. New Anticorrosion-insulation Struction for Heavy Buried Single Well Pipeline | Zhang Yanjun et al |
| 96. Water Hammer Removal Set | Ren Zhonghai et al |
| 98. New Electronic Casing Meters of Injection Well | Gao Honghai |
| 100. Anti-leakage Bi-capped Polished Rod Sealer | Chu Yulin |
| 101. Application of Fiberglass Pipeline in the Oilfield | Zhang Xiangdong |
| 102. Composite Electrode Electric Dehydrator | Chen Kening |

EDITOR IN CHARGE: Yang Jun