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**Petroleum drilling and production equipment-Evaluation and
testing of mechanical cement plugs**

石油天然气钻采设备 机械式固井胶塞的测试与评价

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Table of Contents

Preface	1
1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Test requirements	1
4:1 Sample preparation	1
4:2 Test medium	2
4:3 General requirements for test equipment	2
4:4 Test Project	2
5 Testing and Evaluation	3
5:1 Penetration pressure test	3
5:2 Seal pressure test	5
5:3 Turnover pressure test	6
5:4 Test of ability to withstand back pressure	8
5:5 Wiping ability test	9
5:6 Pass proficiency test	11
5:7 Wear resistance test	12
5:8 Compression deformation test	14
5:9 Anti-rotation ability test	14
5:10 Drillability performance test	15
Appendix A (Informative) Test Record Form	17
Appendix B (informative) Test parameter recommendation table	22

Foreword

This document complies with the provisions of GB/T 1:1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

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Inspection Center, China Petroleum Corporation Bohai Drilling Engineering Co., Ltd., China National Petroleum Corporation North China Oilfield Branch, Dezhou Continental Shelf Petroleum Engineering Technology Co., Ltd., Hebei Shangshan Petroleum Machinery Co., Ltd., Dannuo (Beijing) Petroleum Technical Services Co., Ltd., and Beijing Petroleum Machinery Co., Ltd:

The main drafters of this document: Li Liangliang, Ren Lu, Luo Yucai, Wang Dingsheng, Tan Tianyu, Wang Hanyang, Ming Xianggui, Yang Zhongzu, Jiang Benqiang, Song Jianming, Duan Fenghai, Sun Heping, Zhang Hulin, Zhou Jiaqi, Liu Xiaoxiao, Kong Fanggang, Li Weiran, Jiang Yongkui, Xiao Tao, Ma Chunhui, Su Qing:

Oil and gas drilling equipment Testing and evaluation of mechanical cementing plugs

1 Scope

This document specifies the testing requirements, testing and evaluation of mechanical cementing plugs for oil and gas cementing operations:

This document is applicable to the detection and evaluation of mechanical cementing rubber plugs:

2 Normative reference documents

GB/T 9867

GB/T 13283

GB/T 19830

GB/T 20971

GB/T 29166

3 Terms and definitions

The following terms and definitions as defined in SY/T 5083 and SY/T 5150 apply to this document: 3:1 invertpressure The liquid pressure difference caused by the flipping of the rubber stopper lip: 3:2 Sub-searelease plug It is used on floating or semi-submersible offshore drilling platforms to isolate drilling fluid and cement slurry, and to replace the rubber plug of cement slurry in the pipe string:

4 Test requirements

4:1 Sample preparation 4:1:1 The sample shall be a randomly selected finished rubber stopper:

4:1:2 Determination of the wear resistance of rubber stopper rubber materials The

specimens shall be prepared in accordance with the provisions of GB/T 9867:

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