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Petroleum and natural gas industries -- Drilling fluids -- Processing equipment evaluation

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the re-drafting method to refer to ISO 13501..2011 "Oil and gas industry drilling fluid control equipment evaluation" preparation, and

ISO 13501..2011 consistency is non-equivalent.

This standard is proposed by the National Petroleum Drilling Equipment and Tools Standardization Technical Committee (SAC/TC96).

The drafting of this standard. China Petroleum and Natural Gas Co., Ltd. Exploration and Development Institute of Petroleum Industry Standardization Institute, Baoji Oil

Machinery Co., Ltd., China National Petroleum Group Drilling Engineering Technology Research Institute Jianghan Machinery Research Institute, Sichuan Honghua Petroleum Equipment Co., Ltd.

1 Scope

This standard specifies the performance evaluation and improvement of the common solid-controlled equipment systems for drilling fluid fixation in oil and gas drilling operations

program.

The procedures described in this standard do not apply to performance comparisons between individual devices of similar types.

2 normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article

Pieces. For undated references, the latest edition (including all modifications) applies to this

document.

GB/T 778.1-2007 Measurement of water flow in closed pipelines Drinking cold water meters and hot water meters - Part 1. Specifications

GB/T 778.2-2007 Measurement of water flow in closed pipelines Drinking cold water meters and hot water meters Part 2. Installation

Claim

GB/T 778.3-2007 Measurement of water flow in closed pipelines Drinking cold water meters and hot water meters Part 3. Test methods

Law and test equipment

GB/T 9109.2-2014 Dynamic metering of petroleum and liquid petroleum products - Part 2. Technical requirements for flowmeter installation

Petroleum and liquid petroleum products - Calculation of oil volume - Dynamic metering GB/T 9109.5-2009

Steel for oil and gas pipelines for oil and gas industry GB/T 9711-2011

GB/T 16783.1-2006 Field test of drilling fluid for oil and gas industry - Part 1. Water-based drilling fluid

GB/T 16783.2-2012 Field test of oil and gas industry drilling fluid - Part 2. Oil - based drilling fluid

3.1 Terms and definitions

The following terms and definitions apply to this document.

3.1.1

Feeding area additionsection

In the ground drilling fluid circulation system between the solid phase removal area and the drilling pump suction area, with a good stirring conditions of one or several

The area of the tank can be added to the mud chamber by adding the chemicals, the necessary solid and liquid materials.

3.1.2

Agitator agitator

Mechanical agitator mechanicalstirrer

The mechanically driven stirrer is stirred by a blade mounted on the bottom of the mud tank to agitate the drilling fluid, thereby mixing the additive and suspending the solid phase,

Keep the viscosity of the drilling fluid uniform.

3.1.3

Baffle baffle

A partition or obstruction installed in the mud chamber to change the direction of the flow.