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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 16783.2-2012

Replacing GB/T 16782-1997

**Petroleum and natural gas industries -- Field testing of drilling
fluids -- Part 2: Oil-based fluids**

石油天然气工业 钻井液现场测试 第2部分：油基钻井液

(English Translation)

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Foreword

GB/T 16783 "Field testing of drilling oil and gas industry" is divided into two parts.

Part 1. Water-based drilling fluids;

Part 2. Oil-based drilling fluids.

This section is Part 2 GB/T 16783 in.

Rules in this section in accordance with GB/T 1.1-2009 given draft.

This Part replaces GB/T 16782-1997 "oil-based drilling fluids field testing program."
Compared with the GB/T 16782-1997 main technical Surgery changes are as follows.

--- Increased Chapter 1, "" and Chapter 2, "Terms and definitions" and Chapter 3, "Acronyms";

--- Increased in Chapter 5 "fluid density measurement Workaround";

--- Delete the original standard Appendix F "from the drilling fluid prior to testing step of removing air or gas," and Appendix G "SI units change Sheets ";

Analysis of activity by Garrett sulfide gas separation method --- Added Appendix G "measuring method Chenevert cuttings activity" Appendix H " Thing, "Appendix I" glassware, thermometers, viscometers, retort cup and drilling fluid density meter test and calibration "and Appendix J" non Water-based drilling fluids sand content determination procedures ";

--- Deleted all the photos of test equipment.

This section uses redrafted law, modify using ISO 10414-2. Part 2 Field testing of drilling oil and gas industry 2002 " Score. oil-based drilling fluids. " this portion of the ISO 10414-2. compared to the differences in the structure of the 2002 Appendix A.

This portion of the ISO 10414-2:2002 technical differences and the reasons are. the addition of "This section applies to oil in Chapter 1," Scope " Based drilling fluids, field testing and analysis "prepared to adapt to the requirements of the standard.

This part made the following editorial changes.

--- Remove the ISO 10414-2:2002 Annex F, Appendix G (both informative);

--- Added Appendix J (informative).

This part is proposed by the China National Petroleum Corporation.

This part of the National Oil and Gas Standardization Technical Committee (SAC/TC355) centralized.

1 Scope

This section GB/T 16783 provide OBM following performance standard testing procedures.

- a) drilling fluid density;
- b) viscosity and shear force;
- c) fluid loss;
- d) of oil, water and solids content;
- e) alkalinity, chloride and calcium content;
- f) electrical stability;
- g) lime, calcium chloride and sodium chloride content;
- h) and low-density solid phase weighting material content.

Appendix B, C, D, E, G, H, J gives additional test method can choose to use to test the following properties.

- a) static shear force;
- b) Oil and water content on the cuttings;
- c) drilling activity;
- d) aniline point;
- e) cuttings activity;
- f) active sulfide;
- g) a non-water-based drilling fluids sand content.

Appendix I shows the alternative use program that can be used to.

--- Gauges, thermometers, viscometers, retort cup and glass drilling fluid density meter test and calibration.

Appendix F gives an example of the following calculation.

--- Lime, salinity and solid content.

This section applies to field testing and analysis of oil-based drilling fluid.

2 Terms and definitions

The following terms and definitions apply to this document.

ACS reagent grade ACSreagentgrade in line with the American Chemical Society (ACS) purity standards specified chemical reagent grade.

3 Abbreviations

The following abbreviations apply to this document.

AC --- AC

American Chemical Society ACS ---