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Organophilic clay for oil based drilling fluids

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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.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed and is under the jurisdiction of the National Technical Committee on Standardization of Petroleum and Natural Gas (SAC/TC355).

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Organic soil for oil-based drilling fluids

1 Scope

This document specifies the technical requirements, instruments and reagents, testing methods, testing rules, and packaging for organic clay used in oil-based drilling fluids.

Labelling, transportation and storage, health and safety and environmental protection requirements.

This document applies to the quality inspection and acceptance of organic soil for diesel-based drilling fluids and organic soil for white oil-based drilling fluids.

2 Normative references

GB/T 6003.1

GB/T 6678

GB/T 6679

GB/T 6682

GB/T 16783.1

GB/T 16783.2

GB 19147

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 colloidal ratio

The percentage of the total volume of the suspension formed by dispersing organic clay in the oil phase in oil-based drilling fluid.

4 Technical Requirements

The technical requirements for organic soil used in oil-based drilling fluids are shown in Tables 1 and 2.

Table 1 Technical Requirements for the Physicochemical Properties of Organic Soil for Oil-Based Drilling Fluids project Technical Requirements Diesel-based white oil-based Appearance. grayish-white or light yellow free-flowing powder Loss on drying/% ≤ 4.0 Residue on sieve/% ≤ 5.0