Florida Method of Test for VISCOSITY OF SLURRY

Designation: FM 8-RP13B-2

1. SCOPE

1.1 Viscosity relates to the flow properties of muds. The study of deformation and flow of matter is rheology.

1.2 The instrument used to measure viscosity of drilling fluids on a routine basis is the Marsh Funnel or Marsh Cone.

1.3 This test method has been adapted from Section 2 of the American Petroleum Institute (API) Recommended Practice FM 8-RP13B-1: Standard Procedure for Field Testing Water-Based Drilling Fluids (FM 8-RP13B-1). Use of a direct-reading viscometer has been eliminated.

2. EQUIPMENT

2.1 Marsh Funnel: A Marsh Funnel (see Fig. 1) is calibrated to out-flow 946 mL (one quart) of fresh water at a temperature of 21 ±3°C (70 ±5°F) in 26 ±0.5 seconds. A graduated cup is used as a receiver.

Specifications
Funnel Cone
Length .......................... 305 mm (12.0 in.)
Diameter .......................... 152 mm (6.0 in.)
Capacity to bottom of screen............ 1500 mL
Orifice
Length .......................... 50.8 mm (2.0 in.)
Inside Diameter..................... 4.7 mm (3/16 in.)
Screen.............................. 12 mesh
Has 1.6 mm (1/16 in.) openings and is fixed at a level 19.0 mm (3/4 in.)