Cementing Float Equipment Testing

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Contents

Page

1 Scope . . . 1

2 Normative References . . . 1
2.1 Use of SI and U.S. Customary Units . . . 1

3 Terms and Definitions . . . 1

4 Symbols and Abbreviations . . . 2

5 General Information . . . 2
5.1 Function of Cementing Float Equipment . . . 2
5.2 Performance of Cementing Float Equipment . . . 3

6 Calibration . . . 3
6.1 General . . . 3
6.2 Timers . . . 3
6.3 Flow Meter Systems . . . 4
6.4 Pressure Measuring Systems . . . 4
6.5 Temperature Measuring Systems . . . 4
6.6 Data Acquisition System . . . 4
6.7 Volumetric Glassware and Liquid Receivers . . . 4
6.8 Balances . . . 4

7 Flow Durability Time Categories . . . 4
7.1 Categories . . . 4
7.2 Auto-fill Equipment-Reverse Flow Test . . . 5

8 Flow Durability Rate Categories . . . 5

9 Apparatus and Materials . . . 5
9.1 Flow Loop . . . 5

10 Durability Test . . . 10
10.1 Test Setup . . . 10

11 Static High-temperature/High-pressure Category Rating . . . 12

12 High-temperature/High-pressure Test Cell . . . 12
12.1 Apparatus . . . 12
12.2 Test Cell Procedure . . . 13

13 Extrapolation and Interpolation of Test Results . . . 14
13.1 Extrapolation . . . 14
13.2 Interpolation . . . 14

14 Reporting of Results . . . 15

15 Marking . . . 15

Annex A (informative) Results of Performance Tests on Cementing Float Equipment . . . 16

Annex B (informative) Evaluation of Elastomers in Nonaqueous Fluids . . . 18

Bibliography . . . 19

Figures
1 Forward Flow . . . 6

Contents

Page

2 Reverse Flow 7
3 Backflow Pressure Testing. 8
4 Typical Controlled Pressure-Temperature Test Cell 13

Tables
1 Categories of Flow Durability Tests for Float Equipment 4
2 Reverse Flow Duration for Casing Fill-up Equipment 5
3 Forward Flow Rates for Flow Durability Testing 5
4 Temperature Categories of Static High-temperature Tests 12
5 Pressure Categories of High-pressure Tests 12

Cementing Float Equipment Testing

1 Scope

This specification provides testing and marking requirements for cementing float equipment to be used in oil and natural gas well construction.

2 Normative References

The following referenced documents are indispensable for the application of this document. For undated references, the latest edition of the referenced document applies (including any addenda/errata). For dated references, only the edition cited applies. However, not all documents listed may apply to your specific needs. The body of the standard should be referred to for how these documents are specifically applied.

API Recommended Practice 13B-1, *Field Testing Water-Based Drilling Fluids*

API Specification 13A, *Drilling Fluid Materials*

API Specification Q1, *Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry*

For a list of other documents associated with this standard, see the Bibliography.

2.1 Use of SI and U.S. Customary Units

This document contains derived metric units (SI) and U.S. customary oilfield units. For the purposes of this document, the conversion between the systems is not exact and has been intentionally rounded to allow for ease of use in calibration and measurement.

3 Terms and Definitions

For the purposes of this specification, the following terms and definitions apply.

3.1
annulus
Area between the casing and open hole or previously set casing.

3.2
autofill (auto-fill)
A feature incorporated in the design of some float equipment that allows the flow check system(s) to be initially disengaged so fluid may pass in either direction when running a string of casing. This feature facilitates casing fill-up and may also be used for surge reduction.

NOTE This action may reduce surge pressures in the well that may otherwise be present if float valves remained closed during running of the casing.

3.3
float equipment
float equipment assembly
Casing accessories that contain one or more check valves and become part of the lower section of a casing string for the purpose of preventing the reverse flow of cement once placed in a wellbore annulus.