

Drilling-fluid Processing Systems Evaluation

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Contents

	Page
1	Scope..... 1
2	Normative References 1
3	Terms, Definitions, Symbols, Acronyms, and Abbreviations..... 1
3.1	Terms and Definitions..... 1
3.2	Symbols, Acronyms, and Abbreviations 10
4	Requirements 16
5	System Performance of Drilling-fluid Processing Equipment..... 16
5.1	Principle 16
5.2	Volume of Drilling Fluid Built for Dilution..... 20
5.3	Volume of Excavated Drilled Solids 22
5.4	Drilled-solids Removal System Efficiency..... 22
5.5	Procedure for Measuring Drilling-fluid-to-Drilled-solids Ratio of Shale Shaker Discard 24
5.6	Volume of Discarded Drilling Fluid 28
5.7	Procedure for Calculating Drilling Waste Volumes 28
5.8	Procedure for Estimating Drilling-fluid Dilution and Waste Volumes 29
5.9	Procedure for Optimum Drilled-solids Removal System Efficiency 30
6	Rigsite Evaluation of Drilled-solids Management Equipment..... 31
6.1	Principle 31
6.2	Application 31
6.3	Sampling of Streams for Capture Analysis 32
6.4	Determination of Mass Fraction (Percent) Solids 32
6.5	Calculation of Capture 33
6.6	Interpretation of Results..... 33
6.7	Procedure for Characterizing Removed Solids 34
6.8	Calculation of Mass Fraction (Percent) of Weighting Material and LGS 34
6.9	Particle Size Assessment on Removed Solids 35
6.10	Economics 35
7	Practical Operational Guidelines..... 35
7.1	Principle 35
7.2	Apparatus..... 35
7.3	Procedure for System Design and Operation 36
7.4	Installation of Shale Shakers 40
7.5	Operation of Shale Shakers 40
7.6	Installation of Degassers..... 41
7.7	Operation of Degassers..... 41
7.8	Installation of Desanders and Desilters..... 42
7.9	Installation of Mud Cleaners 44
7.10	Installation of Centrifuges..... 44
7.11	Use of Addition Sections..... 45
7.12	Use of Drilling-fluid Mixing and Blending Equipment..... 45
7.13	Use of Suction Section 45
7.14	Use of Discharge Section 45
8	Conductance of Shale Shaker Screens 46
8.1	Principle 46
8.2	Conductance..... 46
8.3	Apparatus for Measurement of Conductance 47
8.4	Procedure for Measuring Conductance..... 49
8.5	Calculation of Conductance..... 51
9	Shale Shaker Screen Designation 53
9.1	Principle 53

9.2	Materials and Apparatus	55
9.3	Preparation of AIO Test Media.....	56
9.4	Preparation of Test Screen	58
9.5	Test Procedure.....	58
9.6	Calculation of D100 Separation for Test Screen Cloth	59
10	Non-blanked Area of Shale Shaker Screen Panel	63
10.1	Principle	63
10.2	Apparatus	63
10.3	Procedure for Pretensioned or Perforated Panel-type Screens	63
10.4	Calculation for Pretensioned or Perforated Panel-type Screens.....	63
10.5	Procedure for Open-hook Strip Panels.....	63
10.6	Calculation for Open-hook Strip Panels	64
10.7	Examples	64
11	Shale Shaker Screen Labeling.....	65
11.1	API Screen Designation	65
11.2	Label and Tag Format.....	67
11.3	API Screen Designation Label Examples	68
11.4	Other Screen Label and Tags	70
	Annex A (informative) Derivation of Capture Equation	71
	Annex B (informative) Finder's Method	73
	Annex C (normative) 50 mL Retort Procedure for Wet Drilled-solids Samples	76
	Annex D (informative) Example Calculations System Performance of Drilling-fluid Processing Equipment..	90
	Bibliography	109

Figures

1	Dilution Volume Dependency on Target Drilled-solids Concentration	17
2	Dilution Volume Dependency on Drilled-solids Removal System Efficiency	17
3	Interdependency of Drilled-solids Removal and Drilling-fluid Conservation	18
4	Optimum Dilution Volume and Drilled-solids Removal System Efficiency (No Excess Drilling Fluid Built)	20
5	Density Method for Measuring Drilling-fluid-to-Drilled-solids Ratio	25
6	Process Stream Terminology for Centrifugal Separators	32
7	Sand Trap Design.....	38
8	Typical Basic Fluid Routing Through Processing Equipment.....	40
9	Typical Screen Conductance Testing Equipment Set-up.....	48
10	Example of Sieve Analysis with Unknown Shaker Screen Sample	62
11	Side-by-Side Basic Label	68
12	Side-by-Side Example Label	69
13	Top-and-Bottom Basic Label	69
14	Top-and-Bottom Example Label.....	70
B.1	Graphical Example of Finder's Method	75
D.1	Drilling-fluid Processing Equipment (System Performance Calculation Example D.2)	90
D.2	Drilling-fluid Processing Equipment, Day 1 (System Performance Calculation Example D.3).....	94
D.3	Drilling-fluid Processing Equipment (System Performance Calculation Example D.3)	99

Tables

1	Example of Conductance Test Data and Parameters	52
2	API Screen Designation and ASTM Sieve Opening	54
3	Test Sieve Designation (As per ASTM E11-17)	55
4	Examples of AIO Test Media Sample Preparation	57
5	D100 Separation and API Screen Number	60
6	Example Experimental Results	61
B.1	Example of Finder’s Method Sample Preparation	74
C.1	Precision of Liquid Receiver	77
D.1	Interval and Drilling-fluid Input Data (System Performance Calculation Example D.2).....	90
D.2	Measuring Density of Discarded Drilled Solids by Shale Shaker (System Performance Calculation Example D.2)	90
D.3	Interval and Drilling-fluid Input Data (System Performance Calculation Example D.3).....	94
D.4	System Performance Daily Data with Cumulative Totals, Shale Shaker Discharge Only	98
D.5	Input Data Shale Shakers and Centrifuge Discharges (Calculation Example D.3).....	100

Drilling-fluid Processing Systems Evaluation

1 Scope

This recommended practice specifies procedures for assessing and modifying the performance of solids control equipment systems commonly used in the field in petroleum and natural gas drilling-fluids processing.

The procedures described in this standard are not intended for the comparison of similar types of individual pieces of equipment.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

API Recommended Practice 13B-2, *Field Testing Nonaqueous-based Drilling Fluids*

ASTM E11 ¹, *Standard Specification for Woven Wire Test Sieve Cloth and Test Sieves*

3 Terms, Definitions, Symbols, Acronyms, and Abbreviations

3.1 Terms and Definitions

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

3.1.1

addition section

Compartment(s) in the surface drilling-fluid system, between the removal section and the suction section, which provides (a) well-agitated compartment(s) for the addition of drilling-fluid additives.

3.1.2

agitator

mechanical stirrer

Mechanically driven mixer that stirs the drilling fluid by turning an impeller near the bottom of a mud compartment to blend additives, suspend solids, and maintain a uniform consistency of the drilling fluid.

3.1.3

aperture

(screen cloth)

Opening between the wires in a screen cloth.

3.1.4

aperture

(screen surface)

Opening in a screen surface.

3.1.5

apex

Opening at lower end of a hydrocyclone.

¹ ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428, www.astm.org.