

Date of Issue: July 2009

Affected Publications: *API Manual of Petroleum Measurement Standards*
Chapter 12.2, *Calculation of Petroleum Quantities Using Dynamic Measurement Methods and Volumetric Correction Factors*
Part 1, *Introduction*, Second Edition, May 1995
Part 4, *Calculation of Base Prover Volumes by Waterdraw Method*, First Edition, December 1997
Part 5, *Base Prover Volume Using Master Meter Method*, Second Edition, September 2001

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Chapter 12.2.1—Introduction

Appendix B, paragraph C8, references API *MPMS* Chapters 11.2.3 and 11.2.3M to determine *CTDW* values utilized in water calibration of volumetric provers.

API *MPMS* Chapter 11.4.1-2003 *Properties of Reference Materials Part 1—Density of Water and Water Volumetric Correction Factors for Water Calibration of Volumetric Provers*, has replaced these chapters.

Chapter 12.2.4—Calculation of Base Prover Volumes by Waterdraw Method

Section 10.1.1 references API *MPMS* Chapters 11.2.3 and 11.2.3M to determine *CTDW* values utilized in water calibration of volumetric provers.

API *MPMS* Chapter 11.4.1-2003 *Properties of Reference Materials Part 1—Density of Water and Water Volumetric Correction Factors for Water Calibration of Volumetric Provers*, has replaced these chapters.

Section 10.1.2 provides an equation for the calculation of a correction for compressibility of water (*CPL*). Chapter 11.4.1-2003 provides a different equation in Appendix E. Some users are uncertain as to which to use. As stated in Addendum 1 to Chapter 12 issued in August 2007, Chapter 12 is the primary standard for calculation of volume quantities. As such, the *CPL* equation in Chapter 11.4.1-2003, Appendix E, should not be used unless specifically required by Chapter 12.

Section 13.1, example 1 (page 32):

“Liters = 1000 cubic meters”

should be changed to

“Liters = 1000 cubic centimeters”

Section 13.2, example 2 (page 42):

“Liters = 1000 cubic meters”

should be changed to

“Liters = 1000 cubic centimeters”

Chapter 12.2.4—Calculation of Base Prover Volumes by Waterdraw Method

Section 13.3, example 3 (page 49):

“Liters = 1000 cubic meters”

should be changed to

“Liters = 1000 cubic centimeters”

Chapter 12.2.5—Base Prover Volume Using Master Meter Method

Appendix A, paragraph A.3.8, references API *MPMS* Chapter 11.2.3 and 11.2.3M to determine *CTDW* values utilized in water calibration of volumetric provers.

API *MPMS* Chapter 11.4.1-2003 *Properties of Reference Materials Part 1—Density of Water and Water Volumetric Correction Factors for Water Calibration of Volumetric Provers*, has replaced these chapters.