

$$(500 \text{ bbl})(9.5 \text{ lb/gal}) + (x)(8.33 \text{ lb/gal}) = (500 \text{ bbl} + x)(9.0 \text{ lb/gal})$$

Solving the equation for x:

$$\begin{aligned}(V_i)(MW_i) + (V_w)(D_w) &= (V_f)(MW_f) \\ (500)(9.5) + (x)(8.33) &= (500 + x)(9.0) \\ 4750 + 8.33x &= 4500 + 9.0x \\ -0.67x &= -250 \\ x &= 373 \text{ bbl of water}\end{aligned}$$

The 500 bbl of **Old Fluid**, with a 9.5 lb/gal density will have a volume of 873 bbl when its density is reduced to 9.0 lb/gal with fresh water. This is a volume increase of 373 bbl. For comparison purposes, diluting a system without allowing a volume increase (see *Density Reduction/No Volume Increase*) versus diluting a system and allowing the volume to increase results in a net volume difference of 159 bbl. Once again, availability of water, surface equipment, economics, and environmental considerations (disposal costs) play a major role in deciding to decrease density with or without a volume increase.

$$373 \text{ bbl} - 214 \text{ bbl} = 159 \text{ bbl}$$

## Mixing Two Fluids

Mixing two fluids to achieve specific results is another application for material balance concepts. Simple equations can be utilized for calculating desired parameters. The following examples should help to clarify and demonstrate the use of the material balance approach.

### Example Calculations

**EXAMPLE #1** - A circulating system of 1000 bbl has a density of 12.0 lb/gal. There are 300 bbl of 10.0 lb/gal mud in storage on the rig site. How many barrels of 10.0 lb/gal mud are needed to reduce the fluid density to 11.6 lb/gal?

Given:

	$(V_i)(MW_i)$ <u>Old Fluid</u>	$(V_s)(MW_s)$ <u>Weight Mat'l</u>	$(V_f)(MW_f)$ <u>New Fluid</u>
Volume, bbl	1000	X	--
Density, lb/gal	12.0	10.0	11.6

Where:

$$(V_i)(MW_i) + (V_s)(MW_s) = (V_f)(MW_f)$$

$MW_f$	=	Final Mud Density
$MW_i$	=	Initial Mud Density
$MW_s$	=	Stored Mud Density
$V_s$	=	Volume Stored Mud to Add
$V_f$	=	Final Volume
$V_i$	=	Initial Volume

# **Amoco Production Company Drilling Fluids Manual**

**Bill Rehm, Arash Haghshenas, Amir  
Saman Paknejad, Abdullah Al-Yami, Jim  
Hughes**



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<b>Drilling Fluids Manual</b> Amoco Production Company,1994
<b>Drilling Manual</b> ,1976
<p><u>Drilling Fluids Processing Handbook</u> ASME Shale Shaker ASME Shale Shaker Committee,2011-03-15 Written by the Shale Shaker Committee of the American Society of Mechanical Engineers originally of the American Association of Drilling Engineers the authors of this book are some of the most well respected names in the world for drilling The first edition Shale Shakers and Drilling Fluid Systems was only on shale shakers a very important piece of machinery on a drilling rig that removes drill cuttings The original book has been much expanded to include many other aspects of drilling solids control including chapters on drilling fluids cut point curves mud cleaners and many other pieces of equipment that were not covered in the original book Written by a team of more than 20 of the world s foremost drilling experts from such companies as Shell Conoco Amoco and BP There has never been a book that pulls together such a vast array of materials and depth of topic coverage in the area of drilling fluids Covers quickly changing technology that updates the drilling engineer on all of the latest equipment fluids and techniques</p>
<u>Drilling Mud and Cement Slurry Rheology Manual</u> Comité des Techniciens, Chambre Syndicale de la Recherche et de la Production du Pétrole et du Gaz Naturel,2014-11-14
<p><u>Underbalanced Drilling: Limits and Extremes</u> Bill Rehm,Arash Haghshenas,Amir Saman Paknejad,Abdullah Al-Yami,Jim Hughes,2013-11-25 The present crude oil and natural gas reservoirs around the world have depleted conventional production levels To continue enhancing productivity for the remaining mature reservoirs drilling decision makers could no longer rely on traditional balanced or overbalanced methods of drilling Derived from conventional air drilling underbalanced drilling is increasingly necessary to meet today s energy and drilling needs While more costly and extreme underbalanced drilling can minimize pressure within the formation increase drilling rate of penetration reduce formation damage and lost circulation making mature reservoirs once again viable and more productive To further explain this essential drilling procedure Bill Rehm an experienced legend in drilling along with his co editors has compiled a handbook perfect for the drilling supervisor Underbalanced Drilling Limits and Extremes written under the auspices of the IADC Technical Publications Committee contain many great features and contributions including Real case studies shared by major service companies to give the reader guidelines on what might happen in actual operations Questions and answers at the end of the chapters for upcoming engineers to test their knowledge Common procedures typical and special equipment involved and most importantly the limits and challenges that still surround this technology</p>
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Composition and Properties of Drilling and Completion Fluids HCH Darley, George R. Gray, 1988-03-22 Composition and Properties of Drilling and Completion Fluids Fifth Edition covers the fundamental principles of geology chemistry and physics that provide the scientific basis for drilling fluids technology New material for drilling logging and production supervisors and engineers explains how the choice of a drilling fluid and proper maintenance can profoundly reduce total well costs It also defines technical terms necessary to the understanding of instructions and information provided by the mud engineer Updated chapters discuss evaluation of drilling fluid performance clay mineralogy and colloid chemistry rheology filtration properties hole stability drilling problems and completion fluids

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Drilling Fluid Engineering Manual Dresser Industries. Magcobar Operations, Dresser Industries, inc. Oilfield Products Division. Magcobar Operations, 1972

*A Practical Handbook for Drilling Fluids Processing* Samuel Bridges, Leon Robinson, 2020-02-15 A Practical Handbook for Drilling Fluids Processing delivers a much needed reference for drilling fluid and mud engineers to safely understand how the drilling fluid processing operation affects the drilling process Agitation and blending of new additions to the surface system are explained with each piece of drilled solids removal equipment discussed in detail Several calculations of drilled solids such as effect of retort volumes are included along with multiple field methods such as determining the drilled solids density Tank arrangements are covered as well as operating guidelines for the surface system Rounding out with a solutions chapter with additional instruction and an appendix with equation derivations this book gives today's drilling fluid engineers a tool to understand the technology available and step by step guidelines of how to safely evaluate surface systems in the oil and gas fields Presents practical guidance from real example problems that are encountered on drilling rigs Helps readers understand multiple field methods and drilled solids calculations with the help of practice questions Gives readers what they need to master each piece of drilling fluid processing equipment including mud cleaners and safe mud tank arrangements

Drilling Fluids Optimization James L. Lummus, Jamal J. Azar, 1986

*Drilling Fluids Engineering Manual* , 1998

**Drilling Fluids Processing Handbook** Asme Shale Shaker Committee, 2004-11-26 Written by the Shale Shaker Committee of the American Society of Mechanical Engineers originally of the American Association of Drilling Engineers the authors of this book are some of the most well respected names in the world for drilling The first edition Shale Shakers and Drilling Fluid Systems was only on shale shakers a very important piece of machinery on a drilling rig that removes drill cuttings The original book has been much expanded to include many other aspects of drilling solids control including chapters on drilling fluids cut point curves mud cleaners and many other pieces of equipment that were not covered in the original book Written by a team of more than 20 of the world's foremost drilling experts from such companies as Shell Conoco Amoco and BP There has never been a book that pulls together such a vast array of materials and depth of topic coverage in the area of drilling fluids Covers quickly changing technology that updates the drilling engineer on all of the latest equipment fluids and techniques

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