**Dilution of Mud System**

Where ;

Vwm = barrels of dilution water or mud required  
Vm = barrels of mud in circulating system  
Fa = percent low gravity solids in system  
Fcop = percent total optimum low gravity solids desired  
Fca = percent low gravity solids (bentonite and/or chemicals added)

Sample Case : 1000 bbl of mud in system. Total LGS = 6%, reduce solids to

4%.

Dilute with water :

If dilution is done with a 2% bentonite slurry, the total would be :