



ENGINEERING CALCULATIONS

Standard Weight-Up Formula

$$[(350 \cdot \text{sg}) \cdot (W_2 - W_1)] \div [(8.33 \cdot \text{sg}) - W_2] = X$$

And,

$$1 \text{ bbl } \underline{\text{volume increase}} = 350 \cdot \text{sg} = \text{lb of material}$$

Where:

sg	=	specific gravity of weighting agent
W_1	=	initial density (lb/gal)
W_2	=	desired density (lb/gal)
X	=	lb of weighting material per existing bbl