**Specific Gravity (SG)**

**Specific Gravity using mud weight (ppg)**

SG = mud weight (ppg) ÷ 8.33

Case : 15.0 ppg fluid

SG = 15.0 ppg ÷ 8.33

= 1.8

**Specific Gravity using pressure gradient (psi/ft)**

SG = pressure gradient (psi/ft) ÷ 0.433

Case : pressure gradient = 0.624 si/ft

SG = 0.624 psi/ft ÷ 0.433

= 1.44

**Specific Gravity using mud weight (lb/ft3)**

SG = mud weight (lb/ft3) ÷ 62.4

Case : mud weight = 120 lb/ft3

SG = 120 1b/ft3 ÷ 62,4

= 1.92

**Convert specific gravity to mud weight (ppg)**

Mud Weight (ppg) = specific gravity x 8.33

Case : specific gravity 1.80

Mud Weight (ppg) = 1.80 x 8.33

= 15.0 ppg

**Convert Specific Gravity to Pressure Gradient (psi/ft)**

Pressure Gradient (psi/ft) = Specific Gravity x 0.433

Case : Specific Gravity = 1.44

Pressure Gradient (psi/ft) = 1.44 x 0.433

= 0.624

**Convert Specific Gravity to Mud Weight (lb/ft3)**

Mud Weight (lb/ft3) = specific gravity x 62.4

Case : Specific Gravity = 1.92

Mud Weight (lb/ft3) = 1.92 x 62.4

= 120