

APPENDIX 1

Calculations:

$$P1 = D1 \times 0.433 \times SG(f)$$

$$P2 = (S2 - S1) + P2$$

$$MW = \frac{P2}{D2} \times 19.27$$

Where:

P1 & P2 = Pore Pressures

D1 & D2 = Depths

S1 & S2 = Overburden Stresses

H = D2 - D1

S2 - S1 = H x 0.433 x SG(b)

SG(f) = Specific gravity of formation fluid in communication with surface (assume 1.01).

SG(b) = Specific gravity of interstitial fluid bearing rocks, equal to average bulk density over formation between D1 and D2 (assume 2.72, see Fig. 2).

MW = Mud Weight.