For pressures below or equal to bubble point, Standing's correlation for calculating Bo is herein presented:

$$B_o = 0.9759 + 0.00012F^{1.2} - - - - - - - - - - - - - 2.35$$

$$Where\ F = R_s\left(\frac{\gamma_g}{\gamma_o}\right)^{0.5} + 1.25T_F - - - - - - - - - - - - - 2.36$$

Note: T_F is temperature in degree Fahrenheit.

For pressure above bubble point, the analytical equation applicable is given as:

$$B_o = B_{ob}\exp[c_o(P_b - P)] - - - - - - - - - - - - - - - - - - 2.37$$

B_{ob} *is the* B_o a*t bubble point and can be calculated using equation* 2.35 *and* 2.36