

Calculation of P<sub>u</sub> at H = 11,253

$$\Delta P = \frac{3(37.5GH)}{I_t + 4I_1 + I_2}$$

$$G = .671$$

$$H = 11253$$

$$I_t = 100.168$$

$$I_1 = 104.893$$

$$I_2 = 108.263$$

$$P_t = 4638.2$$

$$\Delta P = \frac{3(290,655)}{100.168 + 4(104.893) + 108.263} = \frac{871,965}{628.003}$$

$$= 1388.5$$

$$P_s = P_t + \Delta P = 4638.2 + 1388.5 = 6026.7$$

For static column:

$$I_s = \frac{1000}{P/I_2} = 111.284$$

$$E_{at} M = \frac{149,072}{222.568} = 669.782$$

$$P_1 = P_n - M = 5358.2$$

$$N = 111.284 + 107.457 = 218.741$$

$$M = \frac{141,583}{218.741} = 647.263 \text{ wrong}$$

recalculate

$$M = \frac{141,583}{218.454} = 648.1$$

$$M = \frac{141,583}{218.454} = 648 \text{ check}$$

For H=0