

C-122D  
 Adopted 9-1-65

LOCATION: Unit 6 Section 35 Township 16-S Range 24-E

$$d = \frac{2.0279}{F_1} \frac{GH}{2044.2}$$

$$P_{CT} = \frac{6.205}{T_{CT}}$$

| LINE                                          | 1       | 2       | 3       | 4       | 5       | 6 | 7 | 8     | 9     |
|-----------------------------------------------|---------|---------|---------|---------|---------|---|---|-------|-------|
| 1 $Q_m$                                       |         | 1.060   | 1.058   | 1.120   | 1.141   |   |   | 1.060 | 1.058 |
| 2 $T_w$ (W.H. °R)                             | 498     | 509     | 512     | 516     | 518     |   |   |       |       |
| 3 $T_s$ (B.H. °R)                             | 566     | 565     | 564     | 563     | 562     |   |   |       |       |
| 4 $T = (\frac{T_w + T_s}{2})$                 | 532     | 537     | 538.5   | 539.5   | 540     |   |   |       |       |
| 5 $Z$ (Est.)                                  | 1.750   | 1.796   | 1.845   | 1.873   | 1.885   |   |   |       |       |
| 6 $T_z$                                       | 429.445 | 435.03  | 437.035 | 437.035 | 437.035 |   |   |       |       |
| 7 $GH/TZ$                                     | 7.630   | 7.0812  | 6.64901 | 6.4625  | 6.3484  |   |   |       |       |
| 8 $e^S$ (Table XIV)                           | 1.3312  | 1.3051  | 1.2855  | 1.2712  | 1.2688  |   |   |       |       |
| 9 $1-e^S$ (Table XIV)                         |         | 0.2344  | 0.2213  | 0.2252  | 0.2119  |   |   |       |       |
| 10 $P_t$                                      | 1718.2  | 1719.25 | 1719.25 | 1718.2  | 1718.2  |   |   |       |       |
| 11 $P_t/2/1000$                               | 2952.2  | 1719.25 | 900.38  | 533.01  | 453.20  |   |   |       |       |
| 12 $F_t$ (Table XIV) $1.0375 \frac{F_t}{T_z}$ | 0.25611 | 0.26707 | 0.25088 | 0.24228 | 0.23807 |   |   |       |       |
| 13 $F_c = F_t T_z$                            |         | 7.2727  | 7.7419  | 8.0133  | 8.1586  |   |   |       |       |
| 14 $F_c Q_m$                                  |         | 0.4136  | 0.351   | 0.303   | 1.150   |   |   |       |       |
| 15 $L/H (F_c Q_m)^2$                          |         | 0.190   | 0.110   | 0.20    | 1.323   |   |   |       |       |
| 16 $F_w = L/H (F_c Q_m)^2 (1-e^S)$            |         | 0.105   | 0.110   | 0.20    | 0.28    |   |   |       |       |
| 17 $P_w^2 = P_t^2 + F_w$                      |         | 1719.30 | 901.08  | 582.67  | 453.48  |   |   |       |       |
| 18 $P_s^2 = e^S P_w^2$                        | 3930.0  | 2245.6  | 1158.5  | 742.5   | 595.4   |   |   |       |       |
| 19 $P_s$                                      | 1982.4  | 1498.5  | 1076.1  | 861.9   | 758.5   |   |   |       |       |
| 20 $P = (\frac{P_t + P_s}{2})$                | 1850.3  | 1404.9  | 1012.7  | 812.4   | 715.9   |   |   |       |       |
| 21 $P_t = (P/P_c)$                            | 2.760   | 2.095   | 1.510   | 1.212   | 1.068   |   |   |       |       |
| 22 $T_t = (T/T_c)$                            | 1.448   | 1.461   | 1.465   | 1.468   | 1.470   |   |   |       |       |
| 23 $Z$ (Table XI)                             | 0.752   | 0.7975  | 0.845   | 0.873   | 0.888   |   |   |       |       |