

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURE (Pc or Pw)  
FROM KNOWN BOTTOM HOLE PRESSURE (Pf or Ps)

FORM C-122F

COMPANY PENWELL

LEASE : INDIAN DRAWELL NO. : 1 DATE 2/14/98

UNIT

SECTION : TWNSHP : RANGE :

L

H : 11763 L/H : 11763 B/GMIX : 0.5850

CO2 : 1.055 N2 : 0.24 H2S :

GH : 6881.4 PCR : 675 TCR : 350

| LINE |                         | 1       | 2       | 3     | 4     | 5     | 6     | 7     | 8     |
|------|-------------------------|---------|---------|-------|-------|-------|-------|-------|-------|
| 1    | TW(W.H. R)              | 534     | 534     | 534   | 534   | 534   | 534   | 534   | 534   |
| 2    | Ts(B.H. R)              | 651.6   | 651.6   | 651.6 | 651.6 | 651.6 | 651.6 | 651.6 | 651.6 |
| 3    | T=(Tw+Ts/2)             | 592.8   | 592.8   | 592.8 | 592.8 | 592.8 | 592.8 | 592.8 | 592.8 |
| 4    | Z (EST.)                | 0.923   | 0.848   | ERR   | ERR   | ERR   | ERR   | ERR   | ERR   |
| 5    | TZ                      | 547     | 503     | ERR   | ERR   | ERR   | ERR   | ERR   | ERR   |
| 6    | GH/TZ                   | 12.581  | 13.688  | ERR   | ERR   | ERR   | ERR   | ERR   | ERR   |
| 7    | eS(TABLE XIV)           | 1.603   | 1.671   | ERR   | ERR   | ERR   | ERR   | ERR   | ERR   |
| 8    | Pf or Ps                | 3286.85 | 3286.85 | 0     | 0     | 0     | 0     | 0     | 0     |
| 9    | Pf2 or Ps2              | 10803.4 | 10803.4 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10   | Pc2=Pf/eS or Pw2=Ps2/eS | 6740.1  | 6465.9  | ERR   | ERR   | ERR   | ERR   | ERR   | ERR   |
| 11   | Pc or Pw                | 2596    | 2543    | ERR   | ERR   | ERR   | ERR   | ERR   | ERR   |
| 12   | P=(Pw+Ps/2)or(Pc+Pf/2)  | 2942    | 2915    | ERR   | ERR   | ERR   | ERR   | ERR   | ERR   |
| 13   | Pr=(P/Pcr)              | 4.36    | 4.32    | ERR   | ERR   | ERR   | ERR   | ERR   | ERR   |
| 14   | Tr(T/Tcr)               | 1.69    | 1.69    | 1.69  | 1.69  | 1.69  | 1.69  | 1.69  | 1.69  |
| 15   | Z (TABLE XI)            | 0.848   | 0.847   | ERR   | ERR   | ERR   | ERR   | ERR   | ERR   |

PC PW 1 : 2542.8 PW 2 : ERR PW 3 : ERR PW 4 : ERR