(2 of 2)

# WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) (SURFACE) PRESSURE ($P_f$ & $P_s$) ~~($P_c$ & $P_w$)~~

Form C-122-E
Adopted 9-1-65

COMPANY [illegible] LEASE [illegible] WELL NO. 1 DATE 8-22-96

LOCATION: Unit M Section 24 Township 20 Range 27

L 11207 H 11209 L/H [illegible] G .583 % $CO_2$ _____ % $N_2$ _____ % $H_2S$ _____

d [illegible] $F_r$ [illegible] $Q_m$ 2.715 $M^2$cfd $(L/H)(F_rQ_m)^2$ .01827 $P_{cr}$ 622 (TABLE IX & X) $T_{cr}$ 350 (TABLE IX & X)

| LINE | ITEM | SOURCE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | H | | 0 | 11207 | | 5604 | | | | | | |
| 2 | GH | | 0 | 6537 | | 3300 | | | | | | |
| 3 | 37.5GH | | 0 | 247,538 | | 123,750 | | | | | | |
| | | | | | | | | | | | | |
| 4 | $P_c$ or $P_n$ | | 2000.0 | 3991.1 | 3997.6 | 4074.8 | 4071.1 | $P_s = P_f + \Delta P = 4061.2$ | | | | |
| 5 | $P_r$ | | 3.22 | 6.20 | 6.14 | 6.06 | 6.06 | | | | | |
| 6 | T | | 530 | 589 | 588 | 639 | 639 | | | | | |
| 7 | $T_r$ | | 1.53 | 1.68 | 1.68 | 1.83 | 1.83 | | | | | |
| 8 | Z | | .784 | .886 | .886 | .928 | .928 | | | | | |
| 9 | P/Z P/Z | $\bar{4}\div\bar{8}$ | 3594.0 | 3791.4 | 3796.3 | 4278.3 | 4299.4 | | | | | |
| 10 | P/TZ | $\bar{9}\div\bar{6}$ | 6.927 | 6.692 | 6.613 | 6.727 | 6.720 | | | | | |
| 11 | $(P/TZ)^2/1000$ | $(\bar{10})^2/1000$ | .047999 | .044778 | .043766 | .045251 | .045176 | | | | | |
| 12 | $L/H(F_rQ_m)^2$ | | .01827 | .01827 | .01827 | .01827 | .01827 | | | | | |
| 13 | | $\bar{11}+\bar{12}$ | .06626 | .06305 | .06193 | .06352 | .06343 | | | | | |
| 14 | $I_n$ | $\bar{10}\div\bar{13}$ | 104.544 | 106.192 | 106.174 | 105.97 | 105.936 | | | | | |
| 15 | $M=P_n-P_{n-1}$ | | | 591.9 | 587.4 | 587.2 | 583.5 | | | | | |
| 16 | $N=I_n+I_{n-1}$ | | | 210,736 | 210,736 | 212,068 | 212,128 | | | | | |
| 17 | M x N | $\bar{15}\times\bar{16}$ | | | 123,787 | | 123,776 | | | | | |
| 18 | $\Sigma$(M x N) | $\Sigma\bar{17}$ | | | [illegible] | | | | | | | |

One copy to be filed in District Office (Work copy acceptable)