STATIC BHP

# WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES ($P_c$ ~~or $P_w$~~)

## FROM KNOWN BOTTOM HOLE PRESSURE ($P_f$ ~~or $P_s$~~)

Form C-122F
Adopted 9-1-65

COMPANY TXO PROD. CO. LEASE CALLAGHAN RAYROUX WELL NO. 1 DATE 2-23-89

LOCATION: Unit P Section 11 Township 21S Range 27E

L * 8950 H 8950 L/H 1.000 G .616 % $CO_2$ .86 % $N_2$ .53 % $H_2S$ 0

* BHP INST. SET @ THIS POINT

GH 5573.2 $P_{ct}$ 671 (TABLE IX & X) $T_{ct}$ 562 (TABLE IX & X)

(1)

| LINE | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | $T_w$(W.H. °R) | 534 | 534 | | | | | | |
| 2 | $T_s$(B.H. °R) | 624 | 624 | | | | | | |
| 3 | $T=(\frac{T_w + T_s}{2})$ | 579 | 579 | | | | | | |
| 4 | Z (Est.) | .893 | .901 | | | | | | |
| 5 | TZ | 517.0 | 521.6 | | | | | | |
| 6 | GH/TZ | 10.662 | 10.568 | | | | | | |
| 7 | $e^s$(Table XIV) | 1.491 | 1.486 | | | | | | |
| 8 | $P_f$ or ~~$P_s$~~ | 962.2 | 962.2 | | | | | | |
| 9 | $P_f^2$ or ~~$P_s^2$~~ | 925.8 | 925.8 | | | | | | |
| 10 | $P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$ | 620.6 | 622.8 | | | | | | |
| 11 | $P_c$ or ~~$P_w$~~ | 787.8 | 789.2 ** | ** = $P_c$ | CAL. | FROM BHP | BACK | TO | SURFACE |
| 12 | $P=(\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$ | 875.0 | 875.7 | | | | | | |
| 13 | $P_t = (P/P_{ct})$ | 1.30 | 1.30 | | | | | | |
| 14 | $T_t = (T/T_{ct})$ | 1.60 | 1.60 | | | | | | |
| 15 | Z (Table XI) | .901 | .901 | | | | | | |

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