

# WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE ( $P_f$  &  $P_s$ )  
(SURFACE) ( $P_c$  &  $P_w$ )

3rd

Form C-122E  
Adopted 1-1-65

COMPANY Amoco LEASE Wabash WELL NO. 1 DATE 4-16-74

LOCATION: Unit I Section 13 Township 21S Range 30E

L 11964 H 10000 L/H 1.0000 C .682 % CO<sub>2</sub> .301 % N<sub>2</sub> .818 % H<sub>2</sub>S 0

d 1  $F_r$  0  $Q_m$  0  $M^2cid$  (L/H) ( $F_r Q_m$ )<sup>2</sup> 0  $P_{cr}$  1532.65  $T_{cr}$  300.6

TABLE IX & X

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| LINE | ITEM                              | SOURCE | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8 | 9 | 10 |
|------|-----------------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---|---|----|
| 1    | H                                 |        | 11964   | 5989.0  |         |         | 0       |         |         |   |   |    |
| 2    | GH                                |        | 5989.41 | 4085.0  |         |         | 0       |         |         |   |   |    |
| 3    | 37.5GH                            |        | 36402   | 159310  |         |         | 0       |         |         |   |   |    |
| 4    | $P_c$ or $P_n$                    |        | 2126.6  | 1814.6  | 1823.6  | 1823.6  | 1520.6  | 1520.6  | 1520.6  |   |   |    |
| 5    | $P_f$                             |        | 318     | 2.72    | 2.72    | 2.72    | 2.27    | 2.28    | 2.28    |   |   |    |
| 6    | T                                 |        | 623     | 583     | 583     | 583     | 534     | 534     | 534     |   |   |    |
| 7    | $T_r$                             |        | 1.65    | 1.53    | 1.53    | 1.53    | 1.40    | 1.40    | 1.40    |   |   |    |
| 8    | Z                                 |        | .841    | .801    | .801    | .801    | .743    | .743    | .743    |   |   |    |
| 9    | $P/Z$                             |        | 2271.7  | 2271.7  | 2271.9  | 2276.7  | 2056.3  | 2056.0  | 2056.0  |   |   |    |
| 10   | $P/TZ$                            |        | 4.0011  | 3.8466  | 3.9922  | 3.9051  | 3.5326  | 3.5522  | 3.8196  |   |   |    |
| 11   | $(P/TZ)/2/1000$ ( $10^6/2/1000$ ) |        |         |         |         |         |         |         |         |   |   |    |
| 12   | $L/H(F_r Q_m)^2$                  |        |         |         |         |         |         |         |         |   |   |    |
| 13   |                                   |        |         |         |         |         |         |         |         |   |   |    |
| 14   | $I_n$                             |        | 249.931 | 256.674 | 256.451 | 256.455 | 262.59  | 262.59  | 262.902 |   |   |    |
| 15   | $M=P_n - P_{n-1}$                 |        | 309     | 303     | 303     | 303     | 286     | 286     | 286     |   |   |    |
| 16   | $N=I_n + I_{n-1}$                 |        |         | 506.565 | 508.869 | 506.000 | 516.004 | 516.802 | 515.972 |   |   |    |
| 17   | $M \times N$                      |        |         |         |         |         |         |         | 153265  |   |   |    |
| 18   | $\Sigma (M \times N)$             |        | 306428  |         |         |         |         |         |         |   |   |    |