

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE (P<sub>f</sub> & P<sub>s</sub>)  
(SURFACE) ~~(P<sub>f</sub> & P<sub>w</sub>)~~

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

DATE 8-27-76

LOCATION: Unit 11 Section 24 Township 20 Range 20

L 11207 H 11207 L/H 1.000 G .588 % CO<sub>2</sub> % N<sub>2</sub> % H<sub>2</sub>S

d 1.000 F<sub>1</sub> 0.018251 Q<sub>m</sub> 0.0182 M<sub>2</sub> 0.0182 (L/H) (F<sub>1</sub>Q<sub>m</sub>)<sup>2</sup> .002225 P<sub>cr</sub> 672 T<sub>cr</sub> 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       | 6601    |         | 3300    |         |   |   |   |   |    |
| 3    | 37.5GH                                           |                                 | 0       | 247,538 |         | 123,750 |         |   |   |   |   |    |
| 4    | P <sub>c</sub> or P <sub>n</sub>                 |                                 | 2973.2  | 3165.5  | 3126.4  | 3779.8  | 3782.8  |   |   |   |   |    |
| 5    | P <sub>f</sub>                                   |                                 | 5.68    | 4.65    | 4.65    | 5.62    | 5.63    |   |   |   |   |    |
| 6    | T                                                |                                 | 534     | 589     | 589     | 639     | 639     |   |   |   |   |    |
| 7    | T <sub>r</sub>                                   |                                 | 1.52    | 1.68    | 1.68    | 1.83    | 1.83    |   |   |   |   |    |
| 8    | Z                                                |                                 | .772    | .868    | .868    | .932    | .932    |   |   |   |   |    |
| 9    | P/Z P/Z                                          | 4/8                             | 3203.6  | 3600.8  | 3601.8  | 4055.6  | 4058.8  |   |   |   |   |    |
| 10   | P/TZ                                             | 9/6                             | 5,999   | 6,113   | 6,115   | 6,347   | 6,352   |   |   |   |   |    |
| 11   | (P/TZ) <sup>2</sup> /1000                        | (10)2/1000                      | .03600  | .03737  | .03740  | .04028  | .04035  |   |   |   |   |    |
| 12   | L/H(F <sub>1</sub> Q <sub>m</sub> ) <sup>2</sup> |                                 | .002225 | .002225 | .002225 | .002225 | .002225 |   |   |   |   |    |
| 13   |                                                  | I <sub>1</sub> + I <sub>2</sub> | .06825  | .06462  | .06465  | .06753  | .06760  |   |   |   |   |    |
| 14   | I <sub>n</sub>                                   | I <sub>0</sub> ÷ I <sub>3</sub> | 94.838  | 94.594  | 94.593  | 93.986  | 93.970  |   |   |   |   |    |
| 15   | M = P <sub>n</sub> - P <sub>n-1</sub>            |                                 | 613.3   | 613.2   | 613.4   | 616.4   |         |   |   |   |   |    |
| 16   | N = I <sub>n</sub> + I <sub>n-1</sub>            |                                 | 189.412 | 189.451 | 189.579 | 188.563 |         |   |   |   |   |    |
| 17   | M x N                                            | I <sub>5</sub> x I <sub>6</sub> |         |         |         |         |         |   |   |   |   |    |
| 18   | Σ (M x N)                                        | Σ I <sub>7</sub>                |         |         | 123,783 |         |         |   |   |   |   |    |

PS - P<sub>f</sub> + ΔP = 3782.8