

WELL NAME

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P<sub>cr</sub> & P<sub>w</sub>)  
(SURFACE) *Pat*

COMPANY LOCATION: UNIT SECTION TOWNSHIP RANGE DATE

13542 H 13542 LH 1.0 G, 619 % CO<sub>2</sub> .4 % N<sub>2</sub> .2 % H<sub>2</sub>S

d F<sub>r</sub> Q<sub>m</sub> M<sup>2</sup>cfd (L/H) (F<sub>r</sub>Q<sub>m</sub>)<sup>2</sup> P<sub>cr</sub> 671 T<sub>cr</sub> 361

| LINE | ITEM                                             | SOURCE                 | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9 |
|------|--------------------------------------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---|
| 1    | H                                                |                        | 13542   | 6771    |         |         | 0       |         |         |         |   |
| 2    | GH                                               |                        | 8380    | 4191    |         |         | 0       |         |         |         |   |
| 3    | 37.5GH                                           |                        | 14390   | 151172  |         |         | 0       |         |         |         |   |
| 4    | P <sub>c</sub> or P <sub>n</sub>                 |                        | 48160   | 4228.9  | 4229.6  | 4185.5  | 3556.7  | 3525.3  | 3491.5  | 3495.5  |   |
| 5    | P <sub>r</sub>                                   |                        | 7.18    | 6.30    | 6.27    | 6.20    | 6.10    | 5.25    | 5.20    | 5.21    |   |
| 6    | T                                                |                        | 698     | 581     | 581     | 581     | 513     | 513     | 513     | 513     |   |
| 7    | P <sub>r</sub>                                   |                        | 1.78    | 1.89    | 1.89    | 1.89    | 1.91    | 1.91    | 1.91    | 1.91    |   |
| 8    | Z                                                |                        | .992    | .904    | .902    | .902    | .783    | .770    | .777    | .778    |   |
| 9    | OIL PIZ                                          | 4 ÷ 8                  | 8836.8  | 4676.0  | 4674.7  | 4676.3  | 4591.2  | 4519.7  | 4493.6  | 4476.9  |   |
| 10   | P/IZ                                             | 9 ÷ 6                  | 7.4951  | 8.0587  | 8.0358  | 7.9937  | 8.8522  | 8.8103  | 8.7596  | 8.7581  |   |
| 11   | (P/IZ) <sup>2</sup> /1000                        | (10 <sup>2</sup> /1000 |         |         |         |         |         |         |         |         |   |
| 12   | L/H(F <sub>r</sub> Q <sub>m</sub> ) <sup>2</sup> |                        |         |         |         |         |         |         |         |         |   |
| 13   | I <sub>n</sub>                                   | 11 ÷ 12                |         |         |         |         |         |         |         |         |   |
| 14   | P <sub>n</sub> - P <sub>n-1</sub>                | 10 ÷ 13                | 133.419 | 124.084 | 124.442 | 125.098 | 112.965 | 113.502 | 114.160 | 114.119 |   |
| 15   | H <sub>n</sub> - H <sub>n-1</sub>                |                        |         | 589     | 610     | 632     | 630     | 661     | 694     | 690     |   |
| 16   | H × H                                            |                        |         | 366.839 | 257.508 | 248.432 | 249.540 | 238.064 | 226.448 | 227.662 |   |
| 17   | Σ(H × H)                                         | 15 × 16                |         |         |         | 157072  |         |         |         | 151087  |   |
| 18   |                                                  | Σ 17                   |         |         |         | 157072  |         |         |         | 314159  |   |

*1.000 P*  
Σ(3143441) = 943031 = 1260.7 P = 4818.0 - 1260.7 = 3552.2  
133.419 + 9(125.098) + 114.179 = 747.990