

# WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P<sub>c</sub> & P<sub>w</sub>)  
(SURFACE)

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

COMPANY Gran. Peter Co. LEASE East Smith Road WELL NO. 205 DATE 7-20-62  
LOCATION: Unit 12 Section 12 Township 205 Range 33E

13237 H 13237 L/H 1000 G<sub>min</sub> 543 % CO<sub>2</sub> 1.002 % N<sub>2</sub> 1.001 % H<sub>2</sub>S

d 1005 F<sub>r</sub> 10231 Q<sub>m</sub> 0 M<sub>std</sub> (L/H) (F<sub>r</sub> Q<sub>m</sub>)<sup>2</sup> 0 P<sub>c</sub> 664 T<sub>c</sub> 438

TABLE IX & X

| LINE | ITEM                                              | SOURCE | 1       | 2       | 3        | 4       | 5        | 6       | 7                 | 8      | 9 | 10 |
|------|---------------------------------------------------|--------|---------|---------|----------|---------|----------|---------|-------------------|--------|---|----|
| 1    | H                                                 |        | 13237   | 66185   |          |         |          |         |                   |        |   |    |
| 2    | GH                                                |        | 11158.8 | 5579.4  |          |         |          |         |                   |        |   |    |
| 3    | 37.5GH                                            |        | 418454  | 209227  |          |         |          |         |                   |        |   |    |
| 4    | P <sub>c</sub> or P <sub>n</sub>                  |        | 4667.2  | 3972.8  | 3849.6   | 3085.1  | 2979.3   | 2982.5  | (P <sub>u</sub> ) | 2984.8 |   |    |
| 5    | P <sub>r</sub>                                    |        | 7.03    | 5.83    | 5.80     | 4.57    | 4.49     | 4.49    |                   |        |   |    |
| 6    | T                                                 |        | 666     | 600     | 600      | 534     | 534      | 534     |                   |        |   |    |
| 7    | T <sub>r</sub>                                    |        | 1.52    | 1.37    | 1.37     | 1.22    | 1.22     | 1.22    |                   |        |   |    |
| 8    | Z                                                 |        | 924     | 1801    | 1799     | 1656    | 1649     | 1649    |                   |        |   |    |
| 9    | P/Z P/Z                                           | 4÷8    | 5051.06 | 4836.2  | 4818.07  | 4626.6  | 4590.5   | 4595.6  |                   |        |   |    |
| 10   | P/TZ                                              | 9÷6    | 7584207 | 8106313 | 81030120 | 8164044 | 81596515 | 8165997 |                   |        |   |    |
| 11   | (P/TZ) <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>1</sub> + I <sub>2</sub>                   |        |         |         |          |         |          |         |                   |        |   |    |
| 14   | I <sub>n</sub>                                    | 10÷13  | 131852  | 1241044 | 124531   | 115419  | 116325   | 116194  |                   |        |   |    |
| 15   | M=P <sub>n</sub> -P <sub>n-1</sub>                |        |         | 793     | 818      | 816     | 870      | 867     |                   |        |   |    |
| 16   | N=I <sub>n</sub> + I <sub>n-1</sub>               |        |         | 255.916 | 256.323  | 239.980 | 240.857  | 240.729 |                   |        |   |    |
| 17   | M x N                                             | 15x16  |         |         | 209608   |         |          | 208731  |                   |        |   |    |
| 18   | Σ(M x N)                                          | Σ17    |         |         | 208845   |         |          | 209719  |                   |        |   |    |