

17

WORK SHEET FOR STEPWISE CALCULATION

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

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

COMPANY Shawano LEASE Section 1 WELL NO. 1 DATE 7-14-77

LOCATION: Unit L 13279 Section H Township 13279 Range 1

L 13279 H 13279 L/H 1.051 G .6916 % CO<sub>2</sub> .716 % N<sub>2</sub> .528 % H<sub>2</sub>S 0

d 2441 F<sub>r</sub> 2.423 Q<sub>m</sub> 2.423 M<sup>2</sup>cfd (L/H) (F<sub>r</sub>Q<sub>m</sub>)<sup>2</sup> .001351 P<sub>CT</sub> 666 T<sub>CT</sub> 384

TABLE IX & X

| LINE | ITEM                                              | SOURCE  | 1       | 2       | 3       | 4       | 5       | 6       | 7                            | 8               | 9 | 10     |
|------|---------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|------------------------------|-----------------|---|--------|
| 1    | H                                                 |         | 0       | 6639.5  |         | 13279   |         |         |                              |                 |   |        |
| 2    | GH                                                |         | 0       | 4591.9  |         | 7182.8  |         |         | AP                           | 1033173         |   |        |
| 3    | 37.5GH                                            |         | 0       | 172105  |         | 244301  |         |         | 125208 + 4(129400) + 136.786 |                 |   |        |
| 4    | P <sub>c</sub> or P <sub>n</sub>                  |         | 3113.2  | 5102.2  | 5900.2  | 4463.2  | 4421.2  | 4432.2  |                              | 1033173         |   | 1225.6 |
| 5    | P <sub>r</sub>                                    |         | 467     | 571     | 569     | 571     | 605     | 666     |                              | 779.410         |   |        |
| 6    | T                                                 |         | 520     | 588     | 588     | 656     | 656     | 656     |                              |                 |   |        |
| 7    | T <sub>r</sub>                                    |         | 1.04    | 1.53    | 1.53    | 1.71    | 1.71    | 1.71    | 73 =                         | 3113.2 + 1325.6 |   | 4438.8 |
| 8    | Z                                                 |         | .765    | .855    | .854    | .952    | .950    | .950    |                              |                 |   |        |
| 9    | P/Z P/Z                                           | 4÷8     | 4069.5  | 4142.0  | 4438.2  | 4692.4  | 4691.8  | 4620.7  |                              |                 |   |        |
| 10   | P/TZ                                              | 9÷6     | 2.8260  | 2.8630  | 2.5479  | 2.1521  | 2.1215  | 2.1200  |                              |                 |   |        |
| 11   | (P/TZ) <sup>2</sup> /1000 (10 <sup>2</sup> /1000) |         | .061260 | .057198 | .022971 | .051167 | .050718 | .050595 |                              |                 |   |        |
| 12   | L/H(F <sub>r</sub> Q <sub>m</sub> ) <sup>2</sup>  |         | .001351 | .001251 | .001251 | .001251 | .001251 | .001251 |                              |                 |   |        |
| 13   |                                                   | 11 + 12 | .062604 | .058555 | .058328 | .052524 | .052075 | .052052 |                              |                 |   |        |
| 14   | I <sub>n</sub>                                    | 10÷13   | 12.5008 | 12.7161 | 12.9404 | 136.187 | 136.757 | 136.786 |                              |                 |   |        |
| 15   | M=P <sub>n</sub> -P <sub>n-1</sub>                |         |         | 689     | 677     | 677     | 148     | 647     |                              |                 |   |        |
| 16   | N=I <sub>n</sub> +I <sub>n-1</sub>                |         |         | 254.169 | 254.412 | 265.591 | 266.161 | 266.190 |                              |                 |   |        |
| 17   | M x N                                             | 15 x 16 |         |         | 172.237 |         |         | 172.225 |                              |                 |   |        |
| 18   | Σ (M x N)                                         | Σ 17    |         |         | 172.237 |         |         | 344.462 |                              |                 |   |        |

22.11.14

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