Answer on Question #71403, Economics / Microeconomics

$Q = 64K^{0.5} L^{0.5}$,
K = 500 acres,
k = \$10 per acre,
w = \$500 per labour,
FC = K*k = 500*\$10 = \$5,000,
VC = w*L, TC = FC + VC, ATC = TC/Q, AVC = VC/Q, AFC = FC/Q.
Complete the following table:

| L | Q | FC | VC | TC | AFC | AVC | ATC |
|---|---|----|----|----|----|----|----|
| 0 | 0,00 | 5000 | 0 | 5000 | - | - | - |
| 1 | 1431,08 | 5000 | 500 | 5500 | 3,49 | 0,35 | 3,84 |
| 2 | 2023,86 | 5000 | 1000 | 6000 | 2,47 | 0,49 | 2,96 |
| 3 | 2478,71 | 5000 | 1500 | 6500 | 2,02 | 0,61 | 2,62 |
| 4 | 2862,17 | 5000 | 2000 | 7000 | 1,75 | 0,70 | 2,45 |
| 5 | 3200,00 | 5000 | 2500 | 7500 | 1,56 | 0,78 | 2,34 |
| 6 | 3505,42 | 5000 | 3000 | 8000 | 1,43 | 0,86 | 2,28 |
| 7 | 3786,29 | 5000 | 3500 | 8500 | 1,32 | 0,92 | 2,24 |
| 8 | 4047,72 | 5000 | 4000 | 9000 | 1,24 | 0,99 | 2,22 |
| 9 | 4293,25 | 5000 | 4500 | 9500 | 1,16 | 1,05 | 2,21 |
| 10 | 4525,48 | 5000 | 5000 | 10000 | 1,10 | 1,10 | 2,21 |
| 11 | 4746,37 | 5000 | 5500 | 10500 | 1,05 | 1,16 | 2,21 |
| 12 | 4957,42 | 5000 | 6000 | 11000 | 1,01 | 1,21 | 2,22 |
| 13 | 5159,84 | 5000 | 6500 | 11500 | 0,97 | 1,26 | 2,23 |
| 14 | 5354,62 | 5000 | 7000 | 12000 | 0,93 | 1,31 | 2,24 |
| 15 | 5542,56 | 5000 | 7500 | 12500 | 0,90 | 1,35 | 2,26 |
| 16 | 5724,33 | 5000 | 8000 | 13000 | 0,87 | 1,40 | 2,27 |
| 17 | 5900,51 | 5000 | 8500 | 13500 | 0,85 | 1,44 | 2,29 |
| 18 | 6071,57 | 5000 | 9000 | 14000 | 0,82 | 1,48 | 2,31 |
| 19 | 6237,95 | 5000 | 9500 | 14500 | 0,80 | 1,52 | 2,32 |
| 20 | 6400,00 | 5000 | 10000 | 15000 | 0,78 | 1,56 | 2,34 |

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