Match:

(there are many possible match points, this is just one)

$$s = 1ft$$

$$W(u) \sim 0.4$$

$$t = 100s$$

$$T = \frac{Q}{4\pi s}W(u)$$
 $S = \frac{4Tu}{(r^2/t)}$

$$S = \frac{4 T u}{(r^2/t)}$$

1/u ~ 0.6

Calculations:

 $T \sim 1.2 \times 10^{-3} \text{ ft}^2/\text{sec}$ $K \sim 1.4 \times 10^{-5} \text{ ft/sec}$ rounding T ~ $1x10^{-3}$ ft²/sec K ~ $1x10^{-5}$ ft/sec

$$S \sim 8.3x10^{-7}$$
 $Ss \sim 9.4x10^{-9}$ ft⁻¹ rounding $S \sim 1x10^{-6}$ $Ss \sim 1x10^{-8}$ ft⁻¹