

$$s(r,t) = \frac{Q}{4\pi T} \left(\ln \frac{2.25T}{r^2 S} + \ln t \right) = \beta + \alpha \ln t$$

$$\alpha = \frac{Q}{4 \pi T}$$

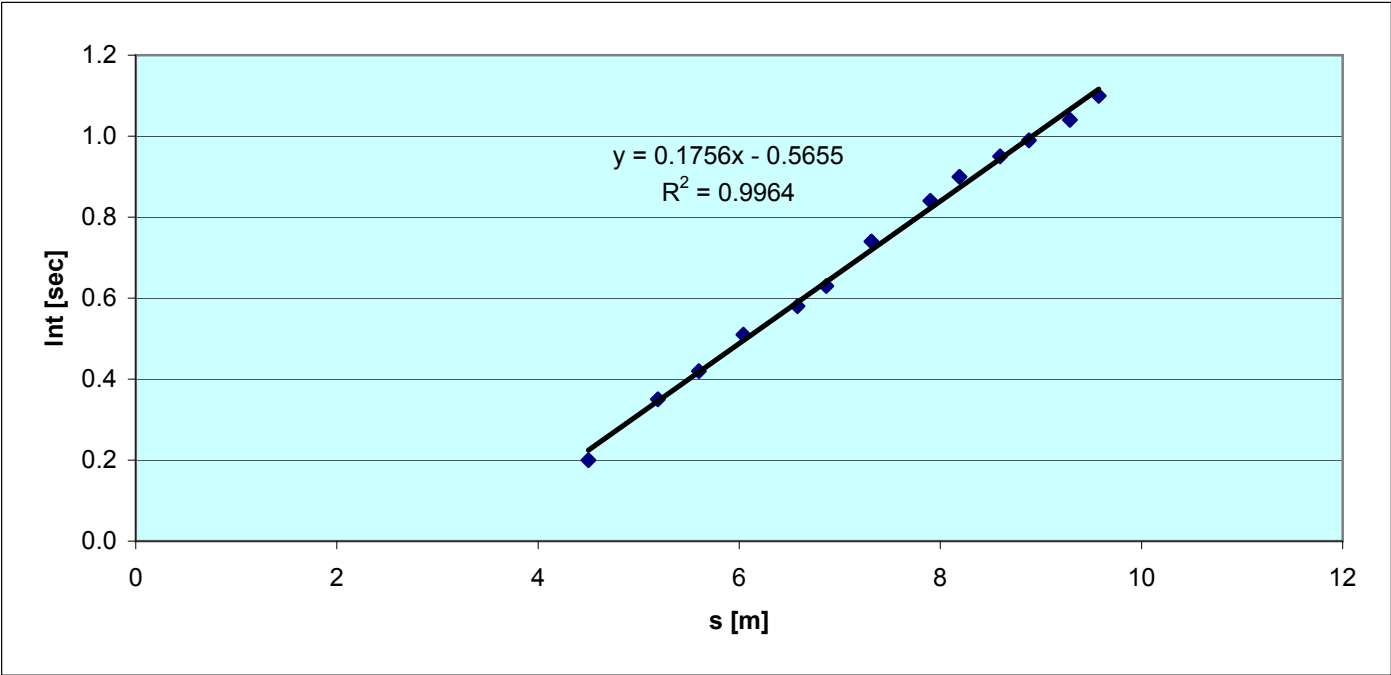
$$\beta = \frac{Q}{4 \pi T} \ln \frac{2.25 T}{r^2 S}$$

t [min]	t [sec]	Int [sec]	s [m]
1.5	90	4.500	0.20
3	180	5.193	0.35
4.5	270	5.598	0.42
7	420	6.040	0.51
12	720	6.579	0.58
16	960	6.867	0.63
25	1500	7.313	0.74
45	2700	7.901	0.84
60	3600	8.189	0.90
90	5400	8.594	0.95
120	7200	8.882	0.99
180	10800	9.287	1.04
240	14400	9.575	1.10

Q	105 m ³ /hr
α	0.1756
T	47.5734327 m ² /hr
	0.01321 m ² /sec

r	100 m
β	-0.5655
β/α	-3.2195
e ^{β/α}	0.03997581
S	0.0000744

b	20 m
K	0.00066 m/sec



t	6 hr
S	0.0000744
T	47.5734327 m ² /hr
r ₁	100 m
r ₂	200 m
Q	105 m ³ /hr

$$\left. \begin{array}{l} u = 0.000651 < 0.05 \\ u = 0.002606 < 0.05 \end{array} \right\} \text{Ισχύει η Cooper-Jacob}$$

s(100,7)	1.187 m
s(200,7)	0.944 m

Q	105 m ³ /hr
T	47.57343271 m ² /hr
r₁	100 m
r₂	200 m
S	0.0000744
s₁	1.245 m
s₂	1.002 m

t1	8.342 hr
t2	8.342 hr

Έλεγχος

για r₁=100m
u
0.000469 <0.05

για r₂=100m
u
0.001874 <0.05

}
Ισχύει η Cooper-Jacob
}

W(u)=[ln(2.25*T*t)]/(r²*S)

S(r,t)=(Q/(4*π*T))*(ln(2.25*T*t)/(r²*S))

Q	105 m ³ /hr
T	47.57343 m ² /hr
r₁	100 m
r₂	200 m
d_w	0.5 m
s_w	3.35 m
r_w	0.25 m

h_2-h_w
2.348 m
 s_w-s_1

s₂	1.002 m
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Ομοίως

h_1-h_w
2.105 m
 s_w-s_2

s₁	1.245 m
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