

Gallagher Site (H-308) Step Draw down Test (10/5/86)

Discharge		Time (min)	Depth to Water (ft)	Drawdown (ft)	sp. cap. (gpm/ft)	Comments
(in)	(gpm)					
0		0	4.87	0		
12.5	149	.25	6.16	1.29		
		.5	6.29	1.42		
		.83	6.28	1.41	105.7	
		1.17	6.28	1.41		
		1.5	6.29	1.42		
		2.0	6.31	1.44		
		2.5	6.30	1.43	104.2	AS (one log cycle) .14
		3.5	6.30	1.43		T = 280,971
		4.0	6.30	1.43		
		4.5	6.30	1.43		
		5.0	6.30	1.43		
		6.0	6.30	1.43		
		7.0	6.31	1.44		
		8.0	6.31	1.44		
		9.0	6.32	1.45		
		10.0	6.33	1.46		
		11.0	6.33	1.47	101.36	
		15.0	6.33	1.47		
		25.0	6.37	1.50	99.3	
24	200	25.3	7.17	2.30		
		25.7	7.19	2.32	86.2	
		26.0	7.20	2.33	85.8	
		26.5	7.20	2.33		
		27.0	7.20	2.33		
		28.0	7.22	2.35	85.1	AS .05
		29.0	7.22	2.35		
		30.0	7.22	2.35		
		32.0	7.21	2.34		
		34.0	7.23	2.36	84.75	
		40.0	7.25	2.38	84.0	
50	296	40.3	8.76	3.89		
		40.5	8.90	4.03		
		41.17	8.96	4.09		
		41.5	8.96	4.09		
		42.0	8.98	4.11	72.03	
		42.6	9.01	4.14		
		43.0	9.01	4.14		

Ellagher sp. cap test pg 2 10/5/86

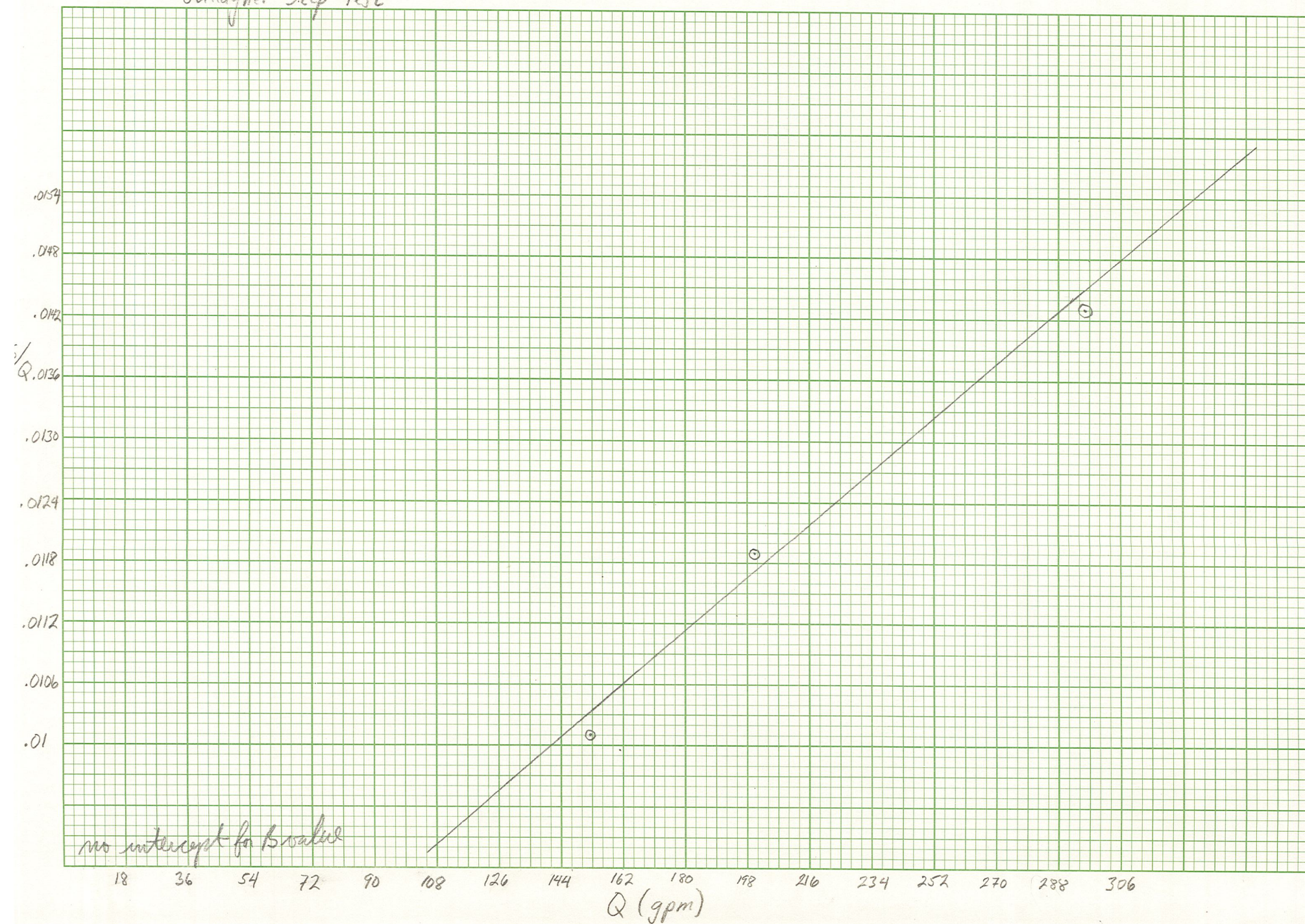
Discharge in GPM	Time (min)	Depth to Water (ft)	Drawdown (ft)	Sp. Cap (gpm/ft)
	43.5	9.03	4.16	
	44.0	9.02	4.15	71.33
	45.0	9.03	4.16	
	46.0	9.07	4.20	
	47.0	9.08	4.21	70.3
	48.0	9.09	4.22	
	50.0	9.09	4.22	
	52.0	9.10	4.23	
	54.0	9.10	4.23	70

Observation Well Data

Well #/r	<u>Production Zone Wells</u>			<u>Water Table Wells</u>		
	LT3/ 54.5'	LT2/ 100.5'	LT1/ 250.9'	WTP/ ~10'	WT1/ ~55'	WT2/ ~101'
Initial depth to water	3.41	5.05	4.06	4.36	4.53	4.04
depth to water at						
Step 1 (18-20 min)	3.68	5.27	—	4.42	4.57	3.96
Step 2 (34-36 min)	3.77	5.36	—	4.36	4.56	3.76
Step 3 (54 min)	3.87	5.42	4.42	4.26	4.55	3.56
drawdown at						
Step 1	0.27	0.22	—	0.06	0.04	+0.08
Step 2	0.36	0.31	—	0	0.03	+0.28
Step 3	0.46	0.37	0.36	+0.1	0.02	+0.48

note - water was discharged near WT2 and LT3, causing increase in water levels in WT2, and possibly WTP

Gallagher Step Test



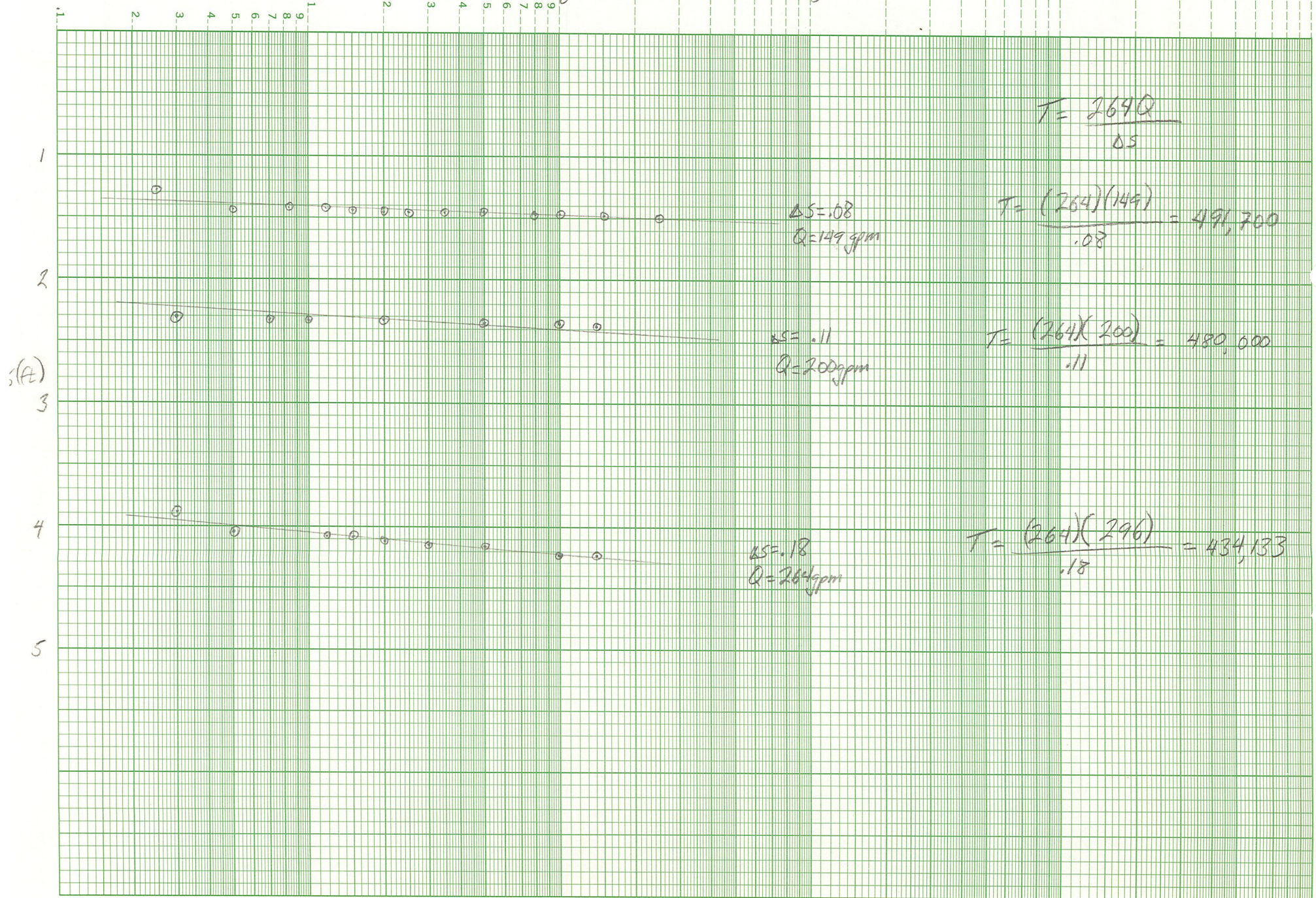


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Gallagher Step Test

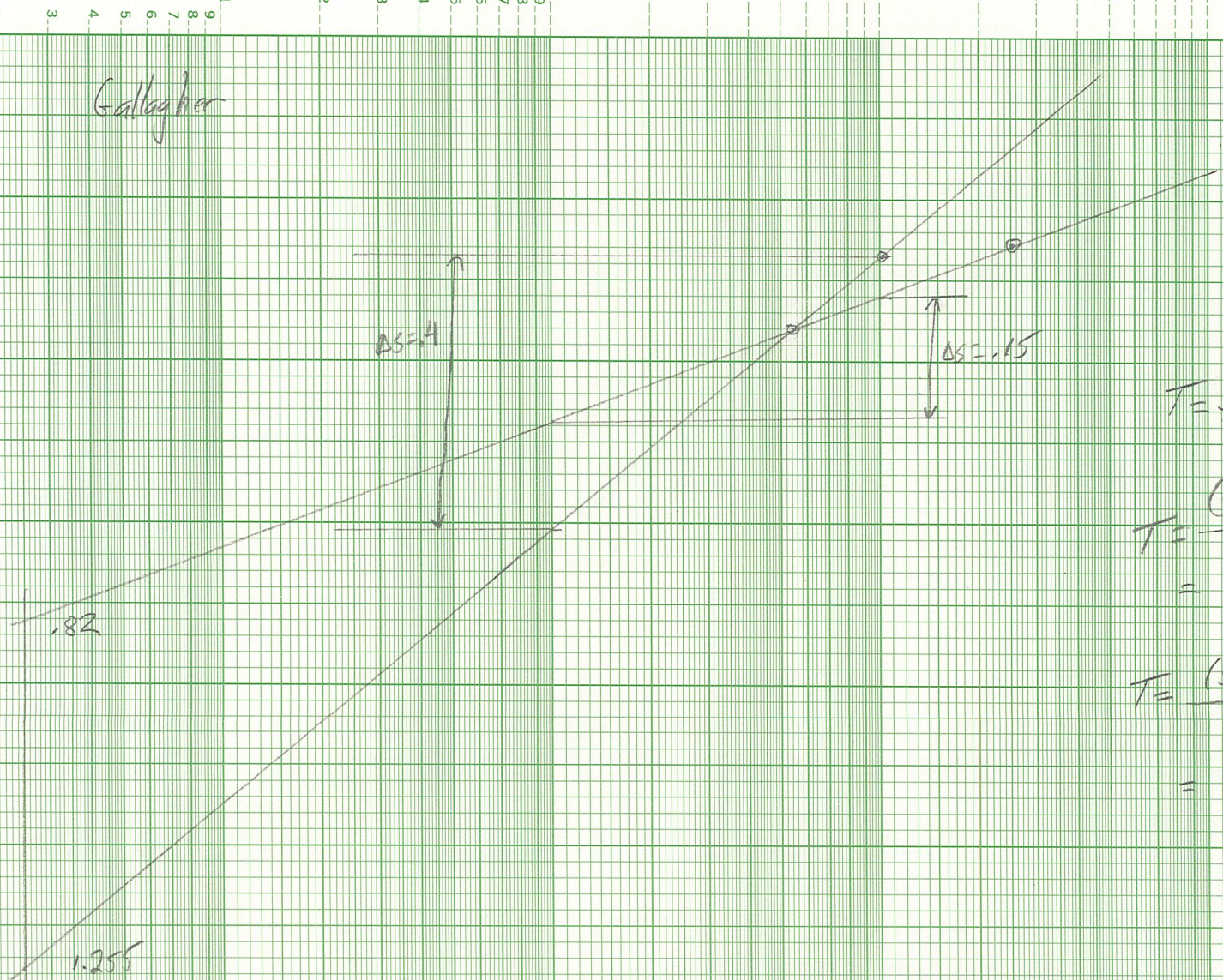
46 6210

$T(\text{min})$



(r) ft

Gallagher



$$T = \frac{528 Q}{\Delta S}$$

$$T = \frac{(528)(296)}{.34} = 459,670$$

$$T = \frac{(528)(296)}{.15} = 1,041,920$$

$$.82 / 4.23 = 19\%$$

$$1.255 / 4.23 = 30\%$$