

1^a Bodega - 1^o termino - para propio

	5 ^o tanteo		2 ^o		3 ^o		4 ^o	
+0,00002 (-409,000 + 13,000,000)	+15,466,000	+ 309,0	+15,900,000	+ 318	+16,166,000	+ 223,2	+15,616,000	+ 312,3
-0,2527 (1920 + 1,000)	+ 3,078	-	+ 3,000	- 758	+ 3,094	- 789,0	+ 3,065	- 770,0
+0,0045 x (-800)	- 950	-	- 850	- 4	- 880	- 2,7	- 850	- 3,8
+0,0120 x (7,750 + 75,000)	+106,750	+ 1,100	+105,700	+ 1,270	+97,750	+ 1,160,0	+97,750	+ 1,160,0
				+ 826		+ 699,5		+ 698,5
+0,00002				+ 318		+ 323,2		+ 312,3
+0,2673				+ 800		+ 830,0		+ 820,0
-0,505				+ 430		+ 420,0		+ 430,0
+0,00039				+ 41		+ 38,0		+ 38,0
				+ 1589		+1611,2	+ 25	+ 1,600,3
+0,00002				+ 318		+ 323,2		+ 312,3
-0,2765				- 830		- 860,0		- 850,0
+0,0079				- 7		- 6,4		- 6,7
-0,0112				- 1,180		- 1,090,0		- 1,090,0
				- 1,699		- 1,633,2		- 1,634,4
-0,00002				- 318		- 323,2		- 312,3
-0,2673				- 800		- 830,0		- 820,0
-0,495				+ 420		+ 410,0		+ 420,0
-0,00039				- 41		- 38,0		- 38,0
				- 739		- 781,2	- 25	- 750,3

g₁ = 75,000
 g₂ = 98,000
 g₃ = 90,000
 g₄ = 90,000
 g₅ = 99,000

+27,920	+ 23,000,000	+ 19,500,000	+ 7,000,000	+ 19,500,000
+66,498	+ 10,500,000	+ 10,750,000	+ 1,660,000	+ 10,600,000
+65,950	- 11,000,000	- 10,750,000	- 660,000	- 10,700,000
+27,298	- 20,000,000	- 21,400,000	+ 680,000	- 20,400,000
Membrana				
θ =	- 3,000,000	- 1,900,000	- 2,900,000	- 1,900,000
+3,824	+ 3,150,000	+ 2,690,000	+ 2,690,000	+ 2,690,000
+1,712	+ 2,700,000	+ 2,750,000	+ 2,750,000	+ 2,750,000
-1,573	+ 2,660,000	+ 2,560,000	+ 2,560,000	+ 2,560,000
-4,134	+ 3,050,000	+ 3,250,000	+ 3,100,000	+ 3,100,000
Membrana	- 670,000	- 670,000	- 670,000	- 670,000
η =	+ 10,890,000	+ 10,580,000	+ 10,430,000	+ 10,430,000
+0,126	+ 104	+ 88,0	+ 88,0	+ 88,0
-0,300	- 495	- 495,0	- 480,0	- 480,0
+0,304	- 515	- 500,0	- 500,0	- 500,0
-0,124	+ 91	+ 97,0	+ 92,0	+ 92,0
N =	- 795	- 810	- 799	- 799
+0,408	+ 285	+ 285	+ 285	+ 285
-0,182	- 294	- 294	- 290	- 290
-0,152	+ 250	+ 250	+ 250	+ 250
+0,395	- 290	- 295	- 295	- 295
Membrana	- 551	- 551	- 551	- 551
d ₅	- 537	- 620	- 601	- 601
d ₁₀	- 350	- 396	- 392	- 392
	- 887	- 1016	- 993	- 993

2^a Bodega

	5 ^o tanteo		2 ^o		3 ^o		4 ^o	
+0,000028 (-1,613,000 + 8,000,000)	+ 8,817,000	+ 177	+9,100,000	+ 255	+9,277,000	+ 260	+8,967,000	+ 250,0
-0,343 (1,764 + 700)	+ 2563	-	+ 2,580	- 890	+ 2,559	- 880	+ 2,574	- 880,0
+0,0157 (-800)	- 950	-	- 850	- 13	- 880	- 13	- 850	- 13,4
+0,0124 (26,400 + 75,000)	+125,400	+ 1,100	+124,400	+ 1,540	+116,400	+ 1,440	+116,400	+ 1,440,0
				+ 892		+ 807		+ 796,6
+0,000028				+ 255		+ 260		+ 250,0
+0,388				+ 1,000		+ 1,000		+ 1,000,0
-0,522				+ 445		+ 435		+ 445,0
+0,00083				+ 104		+ 96		+ 97,0
				+ 1,804		+ 1,791		+ 1,792,0
+0,000029				+ 264		+ 270		+ 260,0
-0,366				- 940		- 940		- 940,0
+0,0446				- 38		- 37		- 38,0
-0,0109				- 1350		- 1260		- 1,270,0
				- 2,064		- 1,967		- 1,988,0
-0,000028				- 255		- 260		- 250,0
-0,388				- 1,000		- 1,000		- 1,000,0
-0,478				+ 405		+ 395		+ 405,0
-0,00083				- 104		- 96		- 97,0
				- 954		- 961		- 942,0

2^o tanteo (valor de t)

1 ^o termino	2 ^o termino
+98,000	- 6,500
+10,300	- 1,440
+27,000	- 1,820
<u>137,300</u>	<u>9,760</u>
77	8,5
t = 650	t = 1,140

3^o tanteo

1 ^o termino	2 ^o termino
+90,000	- 4,550
+ 8,700	- 690
+14,800	- 630
<u>+113,500</u>	<u>- 5,870</u>
77	8,5
t = 775	t = -685

4^o tanteo

1 ^o termino	2 ^o termino
+90,000	- 5,200
+ 7,700	- 890
+28,500	- 1,360
<u>+126,200</u>	<u>- 7,450</u>
77	8,5
t = 770	t = -880

5^o tanteo

1 ^o termino	2 ^o termino
+99,000	- 5,200
+ 8,200	- 730
+11,600	- 750
<u>+118,800</u>	<u>- 6,680</u>
77	8,5
t = 770	t = -790

-13,638	- 12,200,000	- 11,000,000	- 1500	- 10,800,000
-28,703	- 52,000,000	- 51,500,000	- 700	- 51,500,000
-26,956	+ 56,000,000	+ 52,500,000	+ 2,700	+ 53,200,000
-10,155	+ 9,600,000	+ 9,700,000	+ 250	+ 9,500,000
Membrana				
θ =	+ 1,400,000	- 300,000	+ 600	+ 400,000
		+ 1,600		
-4,484	- 4,000,000	- 3,610,000	- 3,550,000	- 3,550,000
-1,963	- 3,550,000	- 3,510,000	- 3,500,000	- 3,500,000
+1,606	- 3,350,000	- 3,180,000	- 3,200,000	- 3,200,000
+4,993	- 4,750,000	- 4,800,000	- 4,700,000	- 4,700,000
Membrana	- 925,000	- 925,000	- 925,000	- 925,000
η =	- 16,575,000	- 16,025,000	- 15,875,000	- 15,875,000
-0,151	- 135	- 121	- 120	- 120
+0,344	+ 620	+ 620	+ 619	+ 619
-0,369	+ 760	+ 720	+ 730	+ 730
+0,138	- 131	- 134	- 131	- 131
N =	+ 1,114	+ 1,085	+ 1,098	+ 1,098
-0,345	- 310	- 280	- 275	- 275
+0,165	+ 298	+ 295	+ 295	+ 295
+0,129	- 266	- 252	- 255	- 255
-0,326	+ 310	+ 315	+ 309	+ 309
Membrana	+ 318	+ 318	+ 318	+ 318
d ₅	+ 350	+ 396	+ 392	+ 392
d ₁₀	+ 420,0			

1ª Borda - 1º termino - Nivel

2ª Borda

	5º tanteo	6º tanteo	3º tanteo	4º tanteo		5º tanteo	6º tanteo	3º tanteo	4º tanteo
+0,0002 (371,400 + 3,900,000)	+5,073,523	+4,743,400	+5,360,000	+4,448,535	+9,00028 (-1,217,478 + 2,260,000)	+1,851,957	+1,926,522	+1,942,000	+1,230,957
-0,2527 (258,6 + 200)	+101,4	+94,8	+107,2	+88,5	-0,343 (397 + 100)	+52,0	+40,0	+54,5	+34,5
+0,0045 (-75)	+489,5	+473,6	+490	+432	+0,0157 (-75)	-180,0	-175,0	-179,0	+478,9
+0,012 (-3,044 + 16,500)	-90	-85	-25	-180	+0,0124 (5,945 + 16,500)	-1,4	-85	-25	-180
	+16,956	+17,956	+14,756	+25,456		+25,945	+26,945	+20,745	+24,445
	+178,0	+189,4	+124,1	+281,9		+190,6	+193,7	+131,1	+282,5
	+101,4	+94,8	+107,2	+88,5	+0,00028	+52,0	+40,0	+54,5	+34,5
+0,0002	+131,0	+126,0	+131,0	+116,0	+0,388	+202,0	+196,0	+200,0	+185,0
+0,2673	+45,5	+43,0	+12,5	+66,0	-0,522	+47,2	+45,0	+13,0	+68,0
-0,505	+6,6	+7,0	+4,6	+10,0	+0,00083	+215,0	+22,4	+17,1	+28,6
+0,00039	+284,5	+270,8	+255,3	+280,5		+323,7	+303,4	+284,6	+316,1
	+101,4	+94,8	+107,2	+88,5	+0,00027	+52,0	+41,5	+56,5	+36,0
+0,0002	-136,0	-131,0	-136,0	-120,0	-0,366	-190,0	-185,0	-190,0	-175,0
-0,2765	+8,7	+0,7	+0,2	+1,0	+0,0446	-4,0	-3,8	-1,2	-5,8
+0,0079	-189,0	-200,0	-131,0	-285,0	-0,0107	-280,0	-294,0	-225,0	-376,0
-0,012	-224,3	-236,9	-159,80	-317,5		-422,0	-441,3	-369,70	-520,8
	-101,4	-94,8	-107,2	-88,5	-0,00028	-52,0	-40,0	-54,5	-34,5
-0,0002	-131,0	-126,0	-131,0	-116,0	-0,389	-203,0	-196,0	-202,0	-185,0
-0,2673	+44,5	+42,0	+12,5	+64,7	-0,478	+44,0	+40,5	+11,9	+62,0
-0,495	+6,6	+7,0	+4,6	+10,0	-0,00083	-215,0	-22,4	-17,1	-28,6
+0,00039	-194,5	-185,8	-230,3	-150,4		-232,5	-217,9	-260,7	-186,10
	+4,900,000	+5,250,000	+3,420,000	+7,800,000		-13,638	-2,600,000	-2650,000	-1,800,000
$G_2 = 98,000 \times \frac{-261,7}{-887} = 29,000$	+66,498	+18,000,000	+17,100,000	+18,700,000	+850	-28,703	-9,300,000	-8,700,000	-8,200,000
	+65,950	-15,600,000	-10,500,000	-20,900,000	-340	-26,956	+11,400,000	+11,900,000	+9,800,000
	+27,298	-5,100,000	-6,300,000	-4,100,000		-10,155	+2,350,000	+2,210,000	+2,640,000
$G_3 = 90,000 \times \frac{-145,5}{-887} = 14,800$	$\theta =$	+2,200,000	+2,550,000	+3,720,000	-4,000	$\theta =$	+1,850,000	+2,760,000	+2,440,000
	+3,824	+680,000	+725,000	+1,080,000	+1,294,000	-4,484	-850,000	-870,000	-590,000
	+1,712	+490,000	+465,000	+440,000	+485,000	-1,963	-640,000	-600,000	-560,000
$G_4 = 90,000 \times \frac{-319,8}{-1,016} = 28,500$	-1,572	+350,000	+370,000	+252,000	+500,000	+1,606	-680,000	-710,000	-575,000
	-4,134	+800,000	+770,000	+960,000	+680,000	+4,993	-1,150,000	-1,090,000	-1,300,000
		+324,000	+324,425	+324,425	+324,425		-1,052,000	-1,052,000	-1,052,135
$G_5 = 90,000 \times \frac{116}{993} = 10,200$ <i>le toma 20,000</i>	$\eta =$	+2,640,000	+2,654,000	+2,448,435	+3,069,435	$\eta =$	-4,372,000	-4,322,000	-4,077,135
	+0,126	+22,5	+24,0	+15,6	+35,5	-0,157	-29,0	-29,2	-49,6
	-0,3	-86,0	-81,0	-77,0	-84,0	+0,244	+111,0	+105,0	+98,0
$G_6 = 90,000 \times \frac{248}{993} = 22,500$ <i>le toma 21,000</i>	+0,304	-68,0	-72,0	-49,0	-96,0	-0,369	+165,0	+163,0	+131,0
	-0,124	+24,0	+23,0	+28,5	+20,5	+0,128	-32,0	-30,0	-36,0
	$N =$	-107,5	-106,0	-81,9	-124,0	$N =$	+215,0	+208,8	+173,4
	+0,408	+72,0	+77,0	+50,5	+115,0	-0,345	-66,0	-67,0	-45,0
	-0,102	-53,0	-49,2	-46,5	-51,0	+0,165	+52,5	+50,0	+47,0
	-0,152	+24,0	+36,0	+24,2	+48,0	+0,129	-54,0	-57,0	-46,0
	+0,395	-76,5	-74,0	-92,0	-65,0	-0,326	+76,0	+71,0	+85,0
		-107,5	-107,5	-107,5	-107,5		+107,5	+107,5	+107,5
	$\frac{dS}{dx}$	-131,0	-117,7	-171,3	-60,5	$\frac{dS}{dx}$	+117,00	+104,5	+148,5
		-117,0	-104,5	-148,5	-55,5				
		-248,0	-222,2	-319,8	-116,0				

1ª Bodega - 2ª Termin - pesa propia

2ª Bodega

	1ª Bodega - 2ª Termin - pesa propia				2ª Bodega			
	1º tanteo	2º tanteo	3º tanteo	4º tanteo	1º tanteo	2º tanteo	3º tanteo	4º tanteo
+0,00006(+16,303 - 150,000)	-133,000	- 8	-160,000	- 9,6	-78,517	- 6,7	-120,000	- 10,3
-0,0757(-663 - 150)	- 813	+ 62	- 850	+ 65,5	- 688	+ 76,0	- 740	+ 82,0
-0,0146	+100	- 1,5	+125	- 9,8	+ 100	- 0,6	+125	- 0,7
+0,0120(-289 - 4000)	-4289	- 51	-6,789	- 81,0	-4978	- 59,5	-7,478	- 90,0
		+ 1,5		- 26,9		+ 9,2		- 19,0
				- 5,6				+ 4,4
				- 12,85				- 1,87
+0,00006	- 8	- 9,6	- 11,0	- 9,0	+0,00084	- 6,7	- 10,2	- 8,8
+0,0884	- 72	- 76	- 75,0	- 74,1	+0,1239	- 85,0	- 91,0	- 89,0
-0,4886	- 448	- 61	- 54,0	- 58,5	-0,5	- 50,0	- 62,5	- 55,0
+0,0004	- 1,7	- 3	- 1,9	- 2,2	+0,00047	- 2,3	- 3,5	- 2,6
	- 126,5	- 149,6	- 141,9	- 143,8		- 144,0	- 167,2	- 155,4
+0,00006	- 8	- 9,6	- 14,0	- 9,0	+0,00084	- 6,7	- 10,2	- 8,8
-0,0988	+ 81	+ 85,0	+ 84,0	+ 83,0	-0,1743	+ 92,0	+ 99,0	+ 97,0
-0,0136	- 1,4	- 1,7	- 1,5	- 1,64	-0,00289	- 0,3	- 0,4	- 0,3
-0,0110	+ 47	+ 74,0	+ 52,5	+ 60,00	-0,011	+ 55,0	+ 82,0	+ 61,0
	+ 118,6	+ 147,7	+ 124,0	+ 132,36		+ 140,0	+ 170,4	+ 148,9
-0,00006	+ 8	+ 9,6	+ 11,0	+ 9,0	-0,00084	+ 6,7	+ 10,2	+ 8,8
-0,0884	+ 72	+ 76,0	+ 75,0	+ 74,1	-0,1239	+ 85,0	+ 91,0	+ 89,0
-0,5114	- 51,1	- 64,0	- 56,5	- 62,0	-0,5	- 50,0	- 62,5	- 55,0
-0,0004	+ 1,7	+ 3,0	+ 1,9	+ 2,2	-0,00047	+ 2,3	+ 3,5	+ 2,6
	+ 30,6	+ 24,6	+ 31,4	+ 23,3		+ 44,0	+ 42,2	+ 45,4
$t_1 = -4000$								
$t_2 = 98000 \times \frac{+527,7}{9 \times 887} = -6500$	+15,186	+ 22,600	- 405,000	- 84,000	-194,000	-6,864	- 63,000	+ 130,000
	+37,886	-4,800,000	-5620,000	-5,350,000	-5,400,000	-16,547	+ 2,380,000	+ 2,760,000
	+38,797	+4,560,000	+5,700,000	+4,820,000	+5,120,000	-16,824	- 2,360,000	-2,875,000
	+16,466	+ 500,000	+ 406,000	+ 520,000	+ 380,000	-6,864	- 300,000	- 290,000
	$\theta =$	+282,600	+ 81,000	- 94,000	- 94,000	$\theta =$	- 343,000	- 275,000
	+706,3	+ 1,060	- 18,800	- 391,0	- 9,000	-848,1	- 7,800	+ 16,100
	+344,3	-43,600	- 51,500	- 49,000	- 49,000	-399,6	+ 57,000	+ 67,000
	-301,6	- 36,500	- 44,500	- 39,500	- 40,000	+361,5	+ 51,000	+ 61,500
	-822,4	- 25,400	- 20,400	- 26,000	- 19,100	+966,9	+ 42,600	+ 41,000
	Membrana	-13,880	- 13,880	- 13,880	- 13,880	Membrana	+10,231	+ 10,231
	$\eta =$	-117,320	-149,080	- 130,290	-130,980	$\eta =$	+153,000	+195,831
	+0,212	+ 0,32	- 5,7	- 1,18	- 2,75	-0,254	- 23,4	+ 4,8
	+0,532	+ 67,50	+ 76,5	+ 76,00	+ 76,00	+0,620	- 89,0	- 104,0
	+0,513	+ 61,00	+ 75,5	+ 64,00	+ 68,00	-0,617	- 86,0	- 104,0
	-0,220	- 6,78	- 5,4	- 6,90	- 5,15	+0,257	+ 11,2	+ 10,8
	$N =$	+122,0	+ 140,9	+ 132,0	+ 136,1	$N =$	-187,2	-192,4
	+2,15	+ 3,2	- 58	- 12,0	- 27,6	-1,81	- 16,6	+ 34,5
	-1,03	+ 130,0	+ 154	+ 146,0	+ 146,0	+0,852	- 122,0	- 142,0
	-0,715	- 84,0	- 105	- 88,5	- 95,0	+0,624	+ 88,0	+ 107,0
	+2,03	+ 62,0	+ 50	+ 64,0	+ 47,0	-1,78	- 76,0	- 73,0
	Membrana	+183,8	+ 183,8	+ 183,8	+ 183,8	Membrana	-106,1	- 106,1
	$\frac{dS}{dx} =$	+ 295,0	+ 224,8	+ 293,3	+ 254,2	$\frac{dS}{dx} =$	- 232,7	- 179,6
		+ 232,7	+ 179,6	+ 231,6	+ 213,5			
		+527,7	+404,4	+ 524,9	+467,7			

1^a Bodega - 2^o termino - Viento

2^a Bodega

	1 ^o tanteo		2 ^o tanteo		3 ^o tanteo		4 ^o tanteo			1 ^o tanteo		2 ^o tanteo		3 ^o tanteo		4 ^o tanteo	
+9,000 (8326 + 6,000)	+14,226	+ 0,86	+ 6,400	+ 0,4	+23,300	+ 14	+11,076	+ 0,66	+0,00085 (2,915 - 30,000)	-27,085	- 2,3	-37,085	- 3,15	-44,000	- 3,75	-35,685	- 3,00
-0,0758 (-459,4 + 0)	-459,4	+ 34,50	- 405	+ 33,5	- 458	+ 34,8	-455,75	+ 34,50	-0,1113 (136 - 60)	+ 76	- 8,4	+70	- 7,8	+ 82	- 9,10	+ 83	- 9,20
-0,0146 (30)	+ 30	- 0,44	+ 20	- 0,3	+ 20	- 0,3	+ 30	- 0,44	-0,0056 (30)	+ 30	- 0,17	+20	- 0,1	+ 20	- 0,10	+ 30	- 0,16
+0,012 (-100 - 550)	- 650	- 7,80	-1,550	- 18,6	-790	- 9,5	- 980	- 11,80	+0,012 (113 - 550)	-337	- 4,05	-1,327	- 16,0	- 577	- 6,90	-767	- 9,20
	+ 27,12		+ 15,0		+ 26,4		+ 22,92			- 14,92		- 27,05		- 19,85		- 21,56	
+0,0006	+ 0,86		+ 0,4		+ 14		+ 0,66		+0,00084	- 2,3		- 3,15		- 3,70		- 3,00	
+0,0884	- 40,50		- 39,5		- 40,5		- 40,50		+0,1239	+ 9,4		+ 8,60		+ 10,20		+ 10,20	
-0,489	- 14,60		- 9,7		- 9,7		- 15,00		- 0,5	- 15,0		- 10,00		- 10,00		- 15,00	
+0,0004	- 0,26		- 0,06		- 0,4		- 0,39		+0,00047	- 0,16		- 0,63		- 0,27		- 0,36	
	- 54,5		- 48,86		- 49,2		- 55,23			- 8,06		- 5,18		- 3,77		- 8,16	
+0,0006	+ 0,86		+ 0,40		+ 14		+ 0,66		+0,00084	- 2,3		- 3,15		- 3,70		- 3,00	
-0,09882	+ 45,50		+ 44,0		+ 45,5		+ 45,20		-0,1307	- 10,2		- 9,40		- 11,00		- 11,00	
-0,0136	- 0,44		- 0,3		- 0,3		- 0,41		-0,0289	- 0,08		- 0,01		- 0,05		- 0,09	
-0,011	+ 7,2		+ 17,1		+ 8,7		+ 10,80		-0,011	+ 2,70		+ 14,60		+ 6,30		+ 8,40	
	+ 53,15		+ 61,2		+ 55,3		+ 56,25			- 8,88		+ 2,04		- 8,45		- 6,69	
-0,0006	- 0,86		- 0,4		- 14		- 0,66		-0,00084	+ 2,3		+ 3,15		+ 2,70		+ 3,00	
-0,0884	+ 40,50		+ 39,5		+ 40,5		+ 40,50		-0,1239	- 9,4		- 8,60		- 10,2		- 10,20	
-0,511	- 15,40		- 10,2		- 10,2		- 15,40		- 0,5	- 15,0		- 10,00		- 10,0		- 15,00	
-0,0004	+ 0,26		+ 0,06		+ 0,4		+ 0,39		-0,00047	+ 0,16		+ 0,63		+ 0,27		+ 0,36	
	+ 24,50		+ 28,86		+ 30,5		+ 24,83			- 21,94		- 14,82		- 16,23		- 21,84	
$\xi_2 = 6,500 \times \frac{89,2}{404,4} = -1,440$	+15,186	+ 410,000	+ 226,000		+ 400,000		+ 345,000			-6,864	+ 102,000	+ 186,000	+ 135,000	+ 149,000		+ 149,000	
	+27,886	- 2,060,000	-1,840,000		-1,850,000		- 2,090,000			-16,547	+ 134,000	+ 86,000	+ 62,000	+ 134,000		+ 134,000	
	+38,797	+ 2,060,000	+2,390,000		+ 2,190,000		+ 2,190,000			-16,824	+ 150,000	- 34,200	+ 141,000	+ 113,000		+ 113,000	
	+16,466	+ 400,000	+ 270,000		+ 500,000		+ 410,000			-6,864	+ 150,000	+ 101,000	+ 112,000	+ 150,000		+ 150,000	
$\xi_3 = -4,550 \times \frac{60,2}{404,4} = -690$	0	+ 810,000	+1,246,000		+ 1,200,000		+ 855,000		$\theta =$	+ 536,000	+ 339,000	+ 450,000	+ 546,000		+ 546,000		
	+706	+ 19,400	+ 10,500		+ 18,600		+ 16,100		-248	+ 12,600	+ 23,000	+ 16,700	+ 18,500		+ 18,500		
	+344	- 19,000	- 16,900		- 17,000		- 19,100		-399	+ 3,200	+ 2,060	+ 1,500	+ 3,200		+ 3,200		
$\xi_4 = -5,200 \times \frac{89,5}{524,9} = -880$	-302	- 16,100	- 18,600		- 16,600		- 17,000		+361	- 3,250	+ 740	- 2,050	- 2,420		- 2,420		
	-822	- 20,020	- 23,600		- 25,200		- 20,500		+967	- 21,400	- 14,300	- 15,900	- 21,000		- 21,000		
	+ 1,600	+ 1,600	+ 1,600		+ 1,600		+ 1,600			+ 3,500	+ 3,500	+ 2,500	+ 3,500		+ 3,500		
$\xi_5 = -5,200 \times \frac{65,7}{467,7} = -730$	$\eta =$	- 34,120	- 47,000		- 38,600		- 38,900		$\eta =$	-5,350	+15,000	+ 2,750	+ 1,780		+ 1,780		
	+0,212	+ 5,85	+ 3,2		+ 5,6		+ 4,8		-0,254	+ 3,75	+ 6,8	+ 5,0	+ 5,50		+ 5,50		
	-0,522	+ 29,70	+ 26,0		+ 26,1		+ 29,5		+0,620	- 5,00	- 3,2	- 2,35	- 6,05		- 6,05		
	+0,513	+ 27,40	+ 31,6		+ 28,4		+ 29,0		-0,617	+ 5,50	- 1,25	+ 5,20	+ 4,10		+ 4,10		
	-0,220	- 5,4	- 6,4		- 6,7		- 5,5		+0,257	- 5,65	- 3,80	- 4,20	- 5,60		- 5,60		
	$N =$	+ 57,05	+ 54,4		+ 53,4		+ 57,80		$N =$	-1,4	- 1,45	+ 3,65	- 1,05		- 1,05		
	+ 2,15	+ 58,0	+ 32,2		+ 57,0		+ 49,0		-1,81	+ 27,0	+ 52,0	+ 36,0	+ 39,0		+ 39,0		
	- 103	+ 56,5	+ 50,0		+ 50,0		+ 57,0		+0,852	- 6,9	- 0,4	- 3,2	- 6,9		- 6,9		
	-0,72	- 38,5	- 40,2		- 41,0		- 41,0		+0,624	- 5,6	+ 1,26	- 5,3	- 4,2		- 4,2		
	+2,02	+ 49,5	+ 58,5		+ 62,0		+ 50,0		-1,73	+ 38,0	+ 25,50	+ 28,2	+ 37,6		+ 37,6		
		- 22,1	- 22,1		- 22,1		- 22,1			- 38,3	- 38,3	- 38,3	- 38,3		- 38,3		
$\frac{dS}{dx}$	+ 103,4	+ 74,4	+ 106,9		+ 92,9		+ 92,9		$\frac{dS}{dx} =$	+ 14,2	+ 36,0	+ 17,4	+ 27,2		+ 27,2		
	- 14,2	- 14,2	- 17,4		- 27,2		- 27,2										
	+ 83,2	+ 60,2	+ 89,5		+ 65,7		+ 65,7										

Ponder M = 50

1ª Bodega - L. Termino - Nieve

2ª Bodega

	5º tanteo		6º tanteo		7º tanteo		4º tanteo	
+0,0006 (10,671-36,000)	-29149	- 1,7	-26,659	- 1,6	-27,889	- 1,65	-26,500	- 1,6
-0,0758 (-86-35)	-128,94	+ 9,8	-121,75	+ 9,2	-124,04	+ 9,35	-119,76	+ 9,0
-0,0146 (20)	+ 19	- 0,3	+ 23	- 0,4	+ 23	- 0,34	+ 30	- 0,4
+0,012 (-113-800)	-637	- 7,6	-887	-10,6	-887	-10,6	-1,247	-15,0
		+ 0,2		- 3,4		- 3,24		- 8,0
+0,0006	- 1,7		- 1,6		- 1,65		- 1,6	
+0,0884	-11,5		-10,8		-11,00		-10,5	
-0,4886	+ 9,3		+11,2		+11,20		+14,5	
+0,0004	+ 0,2		+ 0,3		+ 0,30		+ 0,5	
	-22,7		-23,9		-24,15		-24,1	
+0,0006	- 1,7		- 1,6		- 1,65		- 1,6	
-0,0988	+12,8		+12,1		+12,40		+11,9	
-0,0136	- 0,3		- 0,3		- 0,32		- 0,4	
-0,011	+ 7,0		+ 9,7		+ 9,70		+13,6	
	+17,8		+19,90		+20,13		+23,5	
-0,0006	+ 1,7		+ 1,6		+ 1,65		+ 1,6	
-0,0884	+11,5		+10,8		+11,00		+10,5	
-0,511	- 9,7		-11,7		-11,70		-15,3	
-0,0004	+ 0,2		+ 0,3		+ 0,30		+ 0,5	
	+ 3,70		+1,00		+ 1,25		- 2,7	

	5º tanteo		6º tanteo		7º tanteo		4º tanteo	
+0,00085 (8450-20,000)	-15,000	- 1,29	-11,239	- 0,96	-12,562	- 1,07	-10,940	- 0,92
-0,111 (-132,5-20)	-157,9	+17,50	-152,85	+17,00	-153,99	+17,00	-150,8	+17,00
-0,0056 (20)	+ 19	- 0,10	+ 23	- 0,13	+ 23	- 0,13	+ 30	- 0,17
+0,012 (-220-800)	-970	-11,60	-1,220	-14,60	-1,220	-14,60	-1,580	-19,00
		+ 4,51		+ 1,31		+ 1,20		- 3,09
+0,00084	- 1,26		- 0,96		- 1,06		- 0,92	
+0,1239	-19,50		-18,80		-18,80		-18,60	
-0,5	+ 9,50		+11,50		+11,50		+15,00	
+0,00047	+ 0,45		+ 0,57		+ 0,57		+ 0,75	
	-30,71		-31,83		-31,93		-35,27	
+0,00084	- 1,26		- 0,96		- 1,06		- 0,92	
-0,124	+21,00		+20,50		+20,50		+20,40	
-0,0029	- 0,06		- 0,07		- 0,07		- 0,09	
-0,011	+10,70		+13,50		+13,50		+17,40	
	+30,38		+32,97		+32,87		+36,79	
-0,00084	+ 1,26		+ 0,96		+ 1,06		+ 0,92	
-0,124	+19,50		+18,80		+18,80		+18,60	
-0,5	- 9,50		-11,50		-11,50		-15,00	
+0,00047	+ 0,45		+ 0,57		+ 0,57		+ 0,75	
	+11,71		+8,83		+8,93		+3,43	

$G_2 = -6500 \times \frac{117,5}{404,4} = -1,820$
 $G_3 = -4,550 \times \frac{56,2}{404,4} = -630$
 $G_4 = -5,200 \times \frac{138,4}{524,9} = -1,360$
 $G_5 = -5,200 \times \frac{67,75}{467,7} = -750$
 $G_6 = -5,200 \times \frac{125,17}{467,7} = -1400$ de Termino - 1000
 6000 de termino
 3000 de termino
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 3000 de termino
 1000 de termino

+15,186	+ 3,000	- 5,150	- 49,000	- 121,000
+27,886	-1860,000	-890,000	-915,000	-1,020,000
+38,997	+690,000	+770,000	+780,000	+910,000
+16,466	+61,000	+16,500	+20,500	+44,500
$\theta =$	-106,000	-108,650	-164,000	-275,500
+706	+141	-2410	-2,300	-5,650
+744	-7,800	-8,200	-8,300	-9,300
-702	-5,400	-6,000	-6,100	-7,100
-822	-3,050	-822	-1,040	+2,200
	-3,580	-3,580	-3,580	-3,580
$\eta =$	-19,689	-21,012	-21,320	-23,430
+0,212	- 0,04	- 0,7	- 0,69	- 1,7
-0,532	+12,00	+12,8	+13,00	+14,5
+0,573	+ 9,20	+10,2	+10,40	+12,0
-0,22	- 0,81	- 0,81	+ 0,28	+ 0,6
$N =$	+20,35	+21,49	+22,43	+25,40
+2,15	- 0,43	- 740	- 7,0	-17,1
-1,03	+23,50	+24,90	+25,0	+28,0
-0,72	-12,80	-14,30	-14,5	-16,9
+2,03	+ 7,5	+ 2,03	+ 2,5	+ 5,45
	+35,8	+35,8	+35,8	+35,8
$\frac{dS}{dP}$	+53,57	+41,03	+41,8	+24,05
	+71,60	+60,00	+59,96	+43,40
	+125,17	+101,03	+101,76	+67,75

Disminuir el Ma 15

-6,864	-31,000	-9,000	-8,200	+21,000
-16,547	+510,000	+520,000	+525,000	+580,000
-16,824	-515,000	-550,000	-550,000	-615,000
-6,864	-80,000	-61,000	-61,500	-24,000
$\theta =$	-116,000	-109,000	-94,200	-38,000
-848	-3,850	-1,120	-1,020	+2,640
-799	+12,200	+12,600	+12,600	+14,000
+361	+11,000	+11,900	+11,900	+13,300
+967	+11,400	+8,600	+8,600	+3,300
	+6,580	+6,580	+6,580	+6,580
$\eta =$	+37,230	+38,560	+38,680	+39,820
-0,254	- 1,15	- 0,33	- 0,31	+ 0,78
+0,62	-19,00	-19,60	-19,60	-22,00
-0,627	-18,60	-20,40	-20,40	-22,60
+0,257	+ 3,00	+ 2,29	+ 2,30	+ 0,88
$N =$	-35,75	-38,04	-38,01	-42,94
-1,81	- 8,2	- 2,40	- 2,16	+ 5,6
+0,852	-26,2	-27,00	-27,00	-30,0
+0,624	+19,0	+20,5	+20,40	+22,7
-1,73	-20,4	-15,7	-15,40	-15,9
	-35,8	-35,8	-35,80	-35,8
$\frac{dS}{dP}$	-766	-60,0	-59,76	-42,4