Instituto Tecnológico GeoMinero de España

DIPUTACIÓ D E CASTELLÓ

GARANTIA DE ABASTECIMIENTO CON AGUAS SUBTERRANEAS A NÚCLEOS URBANOS DE LA PLANA DE CASTELLÓN

ANÁLISIS Y PROPUESTA DE ACTUACIONES

CONVENIO DE COLABORACIÓN
Y ASISTENCIA TÉCNICA

ANEXOS

JUNIO, 1998

Secretaría de Estado de Aguas y Costas
Ministerio de Medio Ambiente

GARANTIA DE ABASTECIMIENTO CON AGUAS SUBTERRANEAS A NÚCLEOS URBANOS DE LA PLANA DE CASTELLÓN

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INDICE DE ANEXOS

SIMULACION DEL MODELO MATEMATICO

ANEJO I.: SIMULACIÓN 3F.

SIMULACIÓN 3F

```
1                    ** MODELO McDONALD-HARBAUGH **    --versi¢n castellana de F.A.B.--
0MODELO MATEMATICO DEL SISTEMA ACUIFERO JAVALAMBRE (CASTELLON)                    REGIMEN PERMANENTE :: Archivos
CAS??P
    1CAPA(S)         22FILAS         32COLUMNAS
   1 PERIODO(S) EXTRAC. SIMULADO(S)
 UNIDAD DE TIEMPO: DIAS
0UNID. I/O:
         ELEMENTO:  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
       UNIDAD I/O: 10 20  0  0  0  0 70 80 90  0  0 99  0  0  0  0  0  0  0  0  0  0  0  0
0BAS1 -- MODELO BASICO,        VERSION 1, 12/08/83 LECT. ENT. UNIDAD No  1
 MATRICES RHS Y BUFF COMPARTEN MEMORIA.
 COTAS INIC. PRESERVADAS
   6394 ELEMENTOS MATRIZ X  USADOS POR  BAS
   6394 ELEMENTOS MATRIZ X DEL TOTAL DE  30000
0BCF1 -- NUDOS CENTRADOS EN LAS CELULAS VERS. 1, 12/08/83 ENTRADAS LEIDAS DE U 10
 REGIMEN PERMANENTE
      CAPA  ACUIFERO TIPO
      --------------------
         1          1
   1409 ELEMENTOS MATRIZ X USADOS POR BCF
   7803 ELEMENTOS MATRIZ X DEL TOTAL DE  30000
0WEL1 -- MODULO POZO , VERSION 1, 12/08/83 LECT. ENT. UNID 20
 MAXIMO DE     22 POZOS
     88 ELEMENTOS MATRIZ X USADOS PARA POZOS
   7891 ELEMENTOS MATRIX X USADOS DE      30000
0RCH1 -- APLICAC. RECARGA, VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 80
 OPCION 1 -- RECARGA CAPA SUPERIOR
    704 ELEMENTOS MATRIZ X USADOS EN RECARGA
   8595 ELEMENTOS MATRIZ X USADOS DE      30000
0GHB1 -- MODULO GHB , VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 70
 MAXIMO DE     34 NUDOS EXTERNOS (dep. potenc.)
 FLUJO INTERCELDAS SE IMPRIME CUANDO ICBCFL NO ES 0
    170 ELEMENTOS MATRIZ X EMPLEADOS EN NUDOS EXTERIORES
```

```
   8765 ELEMENTOS MATRIZ X EMPLEADOS DE  30000
0SIP1 -- MODULO SOLUCION "STRONG IMPLICIT PROCEDURE" , VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 90
 MAXIMO DE  500ITERACIONES PARA CERRAR
  5 PARAMETROS ITERACION
   4821 ELEMENTOS MATRIZ X EMPLEADOS EN SIP
  13586 ELEMENTOS MATRIZ X EMPLEADOS DE  30000
1MODELO MATEMATICO DEL SISTEMA ACUIFERO JAVALAMBRE (CASTELLON)                    REGIMEN PERMANENTE :: Archivos
CAS??P
0
```

MATRIZ LIMITES PARA CAPA 1 LECTURA EN UNIDAD No 1 CON FORMATO : (32I3)

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          1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27
28  29  30
        31  32

.....................................................................................................................
.............
0  1    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
          1   1
0  2    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
          0   1
0  3    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   1   1
          1   1
0  4    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   1   1
          1   0
0  5    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   1   1
```

```
          1   0
0  6      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   0   0   0   0   0
0   1     1
          1   0
0  7      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   1   0   1   1   1
1   1     1
          1   0
0  8      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   1   1   1   1   1   1
1   1     1
          1   0
0  9      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   1   1   1   1   1   1
1   1     1
          0   0
0 10      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   1   1   1   1   1   1
1   1     0
          0   0
0 11      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   1   1   1   1   1   1   1
1   0     0
          0   0
0 12      0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
1   0     0
          0   0
0 13      0   0   0   0   0   0   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   0   0
0   0     0
          0   0
0 14      0   0   0   0   0   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   0   0   0
0   0     0
          0   0
0 15      0   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   0   0   0
0   0     0
          0   0
0 16     -1  -1  -1  -1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   0   0   0
0   0     0
          0   0
```

```
0 17    0   0   0  -1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   0   0   0   0
0   0   0
            0   0
0 18    0   0   0  -1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   0   0   0   0   0   0
0   0   0
            0   0
0 19    0   0   0  -1   1   1   1   1   1   1   1   1   0   1   1   1   1   0   1   1   0   0   0   0   0   0   0
0   0   0
            0   0
0 20    0   0   0  -1   1   1   1   1   1   1   1   0   0   0   0   1   0   0   0   0   0   0   0   0   0   0   0
0   0   0
            0   0
0 21    0   0   0  -1  -1  -1   0   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
            0   0
0 22    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
            0   0
```

0COTA DEL ACUIFERO FIJADA EN 999.99   EN NUDOS NO ACTIVOS (IBOUND = 0)
0

COTA INICIAL: CAPA 1 LECTURA EN UNIDAD   1   EN FORMATO: (32F5.0)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30	31	32								
0 1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	25.	20.								
0 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	20.								
0 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.	40.	35.	20.	20.								
0 4	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.	40.	35.	20.	0.								
0 5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.	30.	25.	20.	0.								
0 6	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	160.	140.	0.	0.	0.	0.	0.	0.	30.	25.	20.	0.								
0 7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	190.	180.

```
        160.  140.  120.    0.   75.   65.   55.   50.   30.   25.   20.    0.
0  8      0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   50.   30.   25.   20.    0.
0  9      0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   50.   30.   25.    0.    0.
0 10      0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   40.   30.    0.    0.    0.
0 11      0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.  250.  210.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   40.    0.    0.    0.    0.
0 12      0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.  300.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   40.    0.    0.    0.    0.
0 13      0.    0.    0.    0.    0.    0.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.   75.    0.    0.    0.    0.    0.    0.    0.
0 14      0.    0.    0.    0.    0.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.    0.    0.    0.    0.    0.    0.    0.    0.
0 15      0.  600.  500.  500.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.    0.    0.    0.    0.    0.    0.    0.    0.
0 16    520.  520.  520.  520.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.    0.    0.    0.    0.    0.    0.    0.    0.
0 17      0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 18      0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
```

```
0 19     0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.  370.    0.  300.  240.  220.  210.    0.
190.  180.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 20     0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.    0.    0.    0.    0.  220.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 21     0.    0.    0.  520.  520.  520.  460.  400.  430.  410.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 22     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0FORMATO IMPRESION COTAS -- NUMERO    7    FORMATO IMPRESION DESCENSOS -- NUMEROO    7
0COTAS ARCHIVADA EN UNIDAD N  0    DESCENSOS ARCHIVADOS EN UNIDAD    0
0CONTROL DE SALIDA EN TODOS LOS INTERVALOS
0                                                    COLUMN A FILA ANISOTROP. =    1.000000
0                                                                        DELX =    1000.000
0                                                                        DELY =    1500.000
0

                                HYD. COND. DIR. FILAS:     CAPA  1 LECTURA EN UNIDAD    10    EN FORMATO: (32F5.2)
----------

          1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18
19    20
        21    22    23    24    25    26    27    28    29    30    31    32

..........................................................................................................................
............
0  1    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
.00   .00
          .00   .00   .00   .00   .00   .00   .00   .00   .00   .00  1.10  1.13
```

0 2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00																	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.13						
0 3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00																	
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	1.13						
0 4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00																	
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	.00						
0 5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00																	
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	.00						
0 6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00																	
	.92	1.63	.00	.00	.00	.00	.00	.00	2.41	2.41	2.41	.00						
0 7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.76	.78																	
	.92	1.63	3.15	.00	6.21	6.21	4.46	1.03	2.41	2.41	2.41	.00						
0 8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.71
.87	.90																	
	.92	1.63	3.15	2.90	6.21	6.21	6.21	1.70	2.41	3.17	2.41	.00						
0 9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10
1.13	1.15																	
	1.15	2.05	3.96	2.90	6.21	6.21	6.21	5.17	2.41	3.24	.00	.00						
0 10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10
1.13	1.15																	
	1.15	2.05	3.96	4.14	4.26	6.21	6.21	6.21	2.41	.00	.00	.00						
0 11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.03	1.13	1.10
1.06	1.10																	
	1.15	1.47	3.52	4.14	4.26	4.26	6.21	6.21	.00	.00	.00	.00						
0 12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.91	3.38	4.00	1.54	1.59	1.56
1.52	1.59																	
	1.66	2.05	3.15	4.14	4.26	4.26	6.21	6.21	.00	.00	.00	.00						
0 13	.00	.00	.00	.00	.00	.00	2.23	2.21	3.29	3.27	2.14	1.22	3.66	3.22	3.75	1.54	1.59	1.56
1.59	1.75																	

	1.66	4.30	3.77	3.73	3.52	.00	.00	.00	.00	.00	.00	.00						
0 14	.00	.00	.00	.00	.00	1.72	2.23	2.21	3.29	3.27	2.14	3.43	3.04	3.38	3.38	1.54	1.59	1.01
1.03	1.13																	
	2.71	2.76	3.47	3.73	.00	.00	.00	.00	.00	.00	.00	.00						
0 15	.00	.62	1.38	1.38	2.39	2.41	2.46	2.48	3.01	3.11	3.47	3.47	2.60	2.60	1.59	1.31	1.91	1.59
1.61	1.52																	
	1.61	2.35	6.21	4.46	.00	.00	.00	.00	.00	.00	.00	.00						
0 16	1.38	1.38	1.38	1.38	3.01	3.08	2.85	2.92	3.01	3.11	3.47	3.47	2.60	1.54	.78	1.10	1.59	1.31
1.33	1.26																	
	2.32	2.35	6.21	4.46	.00	.00	.00	.00	.00	.00	.00	.00						
0 17	.00	.00	.00	1.72	3.38	3.36	3.36	2.92	3.01	3.11	3.22	3.13	2.60	1.82	.78	1.10	1.59	1.89
1.91	1.82																	
	2.21	3.56	6.21	.00	.00	.00	.00	.00	.00	.00	.00	.00						
0 18	.00	.00	.00	1.72	3.38	2.58	2.69	3.89	2.92	3.89	2.41	2.76	2.02	1.82	.78	1.10	2.28	1.45
2.21	2.74																	
	2.53	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
0 19	.00	.00	.00	1.72	2.23	2.60	3.36	2.81	2.76	2.85	2.94	2.85	.00	1.54	.78	1.10	2.28	.00
3.11	3.45																	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
0 20	.00	.00	.00	1.72	2.23	2.28	2.64	3.17	2.76	2.85	2.94	.00	.00	.00	.00	1.56	.00	.00
.00	.00																	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
0 21	.00	.00	.00	1.72	3.24	3.24	.00	4.32	2.92	3.89	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00																	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
0 22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00																	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
0																		

FONDO : CAPA 1 LECTURA EN UNIDAD 10 EN FORMATO: (32F5.0)

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          1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18
19    20
         21    22    23    24    25    26    27    28    29    30    31    32

.....................................................................................................................
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0  1     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
            0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -200. -100.
0  2     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
            0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -100.
0  3     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
            0.    0.    0.    0.    0.    0.    0.    0. -200.    0. -100. -100.
0  4     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
            0.    0.    0.    0.    0.    0.    0.    0. -200.    0. -100.    0.
0  5     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
            0.    0.    0.    0.    0.    0.    0.    0. -200.    0. -100.    0.
0  6     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
         -500. -500.    0.    0.    0.    0.    0.    0.    0.    0. -100.    0.
0  7     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -
600. -600.
         -500. -500. -500.    0. -100. -100. -200. -200. -150.    0. -100.    0.
0  8     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -650. -
500. -500.
         -500. -500. -500. -200. -100. -100.    0. -100. -100. -100. -100.    0.
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0  9      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.  -650.  -
650.  -650.
       -650.  -650.  -650.  -200.  -100.  -100.     0.     0.  -150.  -150.  -100.     0.
0 10      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.  -650.  -
650.  -650.
       -650.  -650.  -650.  -200.  -200.     0.     0.     0.  -150.  -150.  -100.     0.
0 11      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.  -650.  -650.  -650.  -
500.  -500.
       -650.  -650.  -500.  -200.  -200.  -200.  -200.  -200.     0.     0.     0.     0.
0 12      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.  -400.  -500.  -500.  -650.  -650.  -650.  -
500.  -550.
       -650.  -650.  -500.  -200.  -200.  -200.  -200.  -200.     0.     0.     0.     0.
0 13      0.     0.     0.     0.     0.     0.   100.   100.   100.   100.   300.   300.  -400.  -550.  -550.  -650.  -650.  -650.  -
650.  -600.
       -650.  -650.  -500.  -150.  -200.     0.     0.     0.     0.     0.     0.     0.
0 14      0.     0.     0.     0.     0.   200.   100.   100.   100.   100.   300.   200.   250.  -500.  -650.  -650.  -650.  -650.  -
650.  -600.
       -650.  -650.  -550.  -150.     0.     0.     0.     0.     0.     0.     0.     0.
0 15      0.  -250.  -250.  -250.  -250.  -250.  -250.  -250.  -150.  -150.  -100.  -100.   250.  -400.  -650.  -650.  -650.  -450.  -
450.  -500.
       -650.  -650.     0.  -150.     0.     0.     0.     0.     0.     0.     0.     0.
0 16   -250.  -250.  -250.  -250.  -100.  -100.  -150.  -150.  -150.  -150.  -100.  -100.   250.  -300.  -650.  -650.  -650.  -450.  -
450.  -500.
       -650.  -650.     0.  -150.     0.     0.     0.     0.     0.     0.     0.     0.
0 17      0.     0.     0.  -100.   100.   100.   100.  -150.  -150.  -150.  -150.  -150.   250.  -200.  -650.  -650.  -650.  -450.  -
450.  -500.
       -250.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0 18      0.     0.     0.  -100.   100.   200.   200.   350.   350.   300.   100.   300.   250.  -200.  -650.  -650.  -650.  -650.  -
650.  -200.
       -200.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0 19      0.     0.     0.  -100.  -300.  -200.   100.   200.  -200.  -200.  -200.  -200.     0.  -300.  -650.  -650.  -650.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0 20      0.     0.     0.  -100.  -300.  -300.  -200.  -100.  -200.  -200.  -200.     0.     0.     0.     0.  -650.     0.     0.
0.     0.
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                0.      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
0 21            0.      0.      0.   -100.   -100.   -100.    300.    300.    350.    350.      0.      0.      0.      0.      0.      0.      0.      0.
0.      0.
                0.      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
0 22            0.      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
0.      0.
                0.      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
0
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SOLUCION POR "STRONGLY IMPLICIT PROCEDURE"

ITERACIONES MAXIMAS PARA CERRAR = 500
PARAMETRO ACELERADOR = 1.0000
CRITERIO DE CIERRE EN POTENCIAL = .50000E-01
INTERV. IMPRIMIR CAMBIO POTENCIAL = 10
CALCULA PARAM. ITERACION DEL WSEED CALCULADO POR EL MODELO
PERIODO EXTRAC. N 1, DURACION 365.2500

NUMERO DE INTERVALOS = 1

MULTIPLICADOR INTERV. 1.000

DURACION INTERVALO UNO = 365.2500

22 POZOS

CAPA	FILA	COL	CAUDAL	POZO No.
1	9	21	-9.0000	1
1	11	21	-30.000	2
1	18	7	-71.000	3
1	17	21	-74.000	4
1	13	9	-82.000	5
1	12	17	-284.00	6
1	13	17	-360.00	7
1	11	20	-572.00	8
1	14	23	-630.00	9
1	7	23	-770.00	10
1	9	20	-812.00	11
1	12	20	-821.00	12
1	10	28	-1916.0	13
1	13	25	-2738.0	14
1	8	29	-2953.0	15
1	10	27	-3432.0	16

1	9	29	-5677.0	17
1	9	31	-5818.0	18
1	9	28	-6948.0	19
1	18	12	-4233.0	20
1	18	13	-4233.0	21
1	9	30	-19507.	22

0

RECARGA LECTURA EN UNIDAD 80 EN FORMATO: (32F6.0)

	1	2	3	4	5	6	7	8	9	10
11										
	12	13	14	15	16	17	18	19	20	21
22										
	23	24	25	26	27	28	29	30	31	32
0 1	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
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	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
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0 2	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
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0 3	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
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	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
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	.000	.000	.000	.000	.000	.000	1.933E-05	1.933E-05	4.267E-05	.000
0 4	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000										
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000										
	.000	.000	.000	.000	.000	.000	2.867E-05	3.333E-05	.000	.000

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0  5     .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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         .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
.000
         .000        .000        .000       3.800E-05    .000        .000       3.333E-05   4.267E-05    .000        .000
0  6     .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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         .000        .000        .000        .000        .000        .000        .000        .000        .000       1.033E-04
1.807E-04
         .000        .000        .000       4.267E-05   4.733E-05    .000       1.933E-05   2.400E-05    .000        .000
0  7     .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
.000
         .000        .000        .000        .000        .000        .000        .000       1.033E-04   2.067E-04   2.327E-04
5.200E-05
        5.200E-05    .000       1.400E-05   3.800E-05   1.933E-05   9.333E-06   2.400E-05   9.333E-06   1.400E-05    .000
0  8     .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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         .000        .000        .000        .000        .000        .000       7.733E-05   2.587E-04   2.587E-04   2.600E-05
.000
         .000       5.200E-05   3.333E-05   3.333E-05   2.867E-05   9.333E-06   3.800E-05   9.333E-06   1.400E-05    .000
0  9     .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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         .000        .000        .000        .000        .000        .000       2.067E-04   1.553E-04   1.293E-04    .000
.000
         .000       7.733E-05   9.333E-06   3.800E-05   3.333E-05   9.333E-06    .000        .000        .000        .000
0 10     .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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         .000        .000        .000        .000        .000        .000       7.733E-05    .000        .000        .000
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         .000       3.094E-03   1.400E-05   9.333E-06   9.333E-06   4.667E-06    .000        .000        .000        .000
0 11     .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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         .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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         .000       3.094E-03   2.400E-05   9.333E-06   4.667E-06    .000        .000        .000        .000        .000
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0 12     .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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         .000       1.667E-05   5.733E-05   1.807E-04   .000        .000        .000       2.600E-05   1.293E-04   .000
5.200E-05
        2.600E-05   3.094E-03   .000        .000        .000        .000        .000        .000        .000        .000
0 13     .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
5.733E-05
        2.467E-05   1.667E-05   .000       2.327E-04    .000        .000        .000       5.200E-05   2.600E-05   .000
2.600E-05
        2.600E-05   2.067E-04   .000        .000        .000        .000        .000        .000        .000        .000
0 14     .000        .000        .000        .000        .000        .000        .000        .000        .000       8.000E-06
6.533E-05
        5.733E-05   4.067E-05   .000       7.733E-05    .000        .000        .000        .000        .000        .000
.000
        2.600E-05   2.327E-04   .000        .000        .000        .000        .000        .000        .000        .000
0 15     .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
.000
         .000       5.733E-05   .000        .000        .000       5.200E-05    .000        .000       7.733E-05   2.600E-05
3.094E-03
        3.223E-03   2.067E-04   .000        .000        .000        .000        .000        .000        .000        .000
0 16     .000        .000        .000        .000        .000        .000        .000        .000        .000       1.667E-05
.000
        1.667E-05   8.200E-05   .000        .000       2.600E-05   1.033E-04    .000        .000       2.600E-05   7.733E-05
3.094E-03
        2.587E-04   7.733E-05   .000        .000        .000        .000        .000        .000        .000        .000
0 17     .000        .000        .000       4.067E-05    .000        .000        .000        .000        .000       7.333E-05
2.467E-05
         .000       6.533E-05   4.933E-05   .000        .000        .000        .000        .000       5.200E-05   1.293E-04
2.600E-05
        2.327E-04    .000        .000        .000        .000        .000        .000        .000        .000        .000
0 18     .000        .000        .000        .000       6.533E-05   4.933E-05    .000        .000        .000       6.533E-05
8.200E-05
        5.733E-05   8.200E-05   5.733E-05    .000       1.553E-04   1.807E-04   2.067E-04   1.807E-04   1.293E-04   7.733E-05
.000
        2.600E-05    .000        .000        .000        .000        .000        .000        .000        .000        .000
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0 19     .000        .000        .000        .000        .000        .000        .000        .000        .000        3.267E-05
7.333E-05
         4.067E-05   1.667E-05   .000        5.200E-05   5.200E-05   5.200E-05   .000        7.733E-05   2.600E-05   1.293E-04
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0 21     .000        .000        .000        .000        .000        .000        .000        4.933E-05   6.533E-05   1.667E-05
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         .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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         .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
0
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34 NUDOS EXTERIORES

0

CAPA	FIL	COL	COTA	CONDUCTANCIA	EXTER. N.
1	1	32	19.00	275.0	1
1	2	32	19.00	290.0	2
1	3	32	19.00	265.0	3
1	4	31	19.00	290.0	4
1	5	31	19.00	295.0	5
1	6	31	15.00	310.0	6
1	7	31	15.00	320.0	7
1	8	31	15.00	325.0	8
1	9	30	15.00	195.0	9
1	10	29	27.00	858.0	10
1	11	28	35.00	873.0	11
1	12	28	35.00	901.0	12
1	12	27	45.00	744.0	13
1	12	26	55.00	708.0	14
1	13	25	60.00	656.0	15
1	14	24	90.00	677.0	16
1	15	24	90.00	656.0	17
1	16	24	90.00	677.0	18
1	17	23	110.0	656.0	19
1	17	22	130.0	677.0	20
1	20	11	370.0	312.0	21
1	19	12	350.0	295.0	22
1	18	13	300.0	275.0	23
1	19	14	300.0	250.0	24
1	19	15	240.0	275.0	25
1	20	16	220.0	285.0	26
1	19	17	200.0	295.0	27
1	18	18	190.0	305.0	28
1	19	19	180.0	275.0	29
1	8	18	200.0	585.0	30
1	7	19	190.0	576.0	31

```
                  1        7       20     180.0          537.0          32
                  1        6       21     160.0          557.0          33
                  1        6       22     140.0          576.0          34
0"SEED" PROM. =  .00258395
 "SEED" MIN.  =  .00057664
0
    5 PARAMETROS ITERACION CALCULADOS DEL  "SEED" PROM.:

            .0000000E+00   .7745393E+00   .9491675E+00   .9885393E+00   .9974161E+00
0
    15 ITERACIONES INTERVALO N.   1 PERIODO EXTRACC.  1
0CAMBIO POT. MAX. PARA CADA ITERACION  :
0 CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO
POT.  CAPA,FIL,COL
 ------------------------------------------------------------------------------------------------------------------
-----------------
   -89.10      (  1, 15,  2)  -34.41      (  1, 12, 14)  -24.64      (  1, 13, 15)  -22.41      (  1, 12, 13)   15.64
(  1, 13, 12)
   -8.400      (  1, 13, 12)   3.179      (  1, 13, 12)   1.275      (  1, 13, 13)   .7533      (  1, 13,  9)  -.7318
(  1, 14, 12)
   -.2650      (  1, 13, 11)   .7230E-01 (  1, 15, 12)  -.5544E-01 (  1, 13, 14)  -.7781E-01 (  1,  9, 25)   .3344E-
01 (  1, 13, 12)
0
0INDIC. IMPRESION COTAS/DESC.= 1      INDICADOR IMPRIMIR BALANCE = 1      INDICADOR FLUJO INTERCELDAS = 1
0INDICADORES SALIDA POR CAPA:
          COTA     DESCENSO  COTA   DESCENSO
  CAPA  IMPRIMIR   IMPRIMIR SALVA    SALVA
 ---------------------------------------
    1       1         0        0        0
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     1    CAPA  1  FILA   1   COL  32 CAUDAL  -9.531593
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     2    CAPA  1  FILA   2   COL  32 CAUDAL  -40.94553
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     3    CAPA  1  FILA   3   COL  32 CAUDAL  -186.4985
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     4    CAPA  1  FILA   4   COL  31 CAUDAL  -363.0459
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     5    CAPA  1  FILA   5   COL  31 CAUDAL  -376.5807
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     6    CAPA  1  FILA   6   COL  31 CAUDAL  -1563.015
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0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     7    CAPA  1  FILA   7   COL  31 CAUDAL  -2120.042
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     8    CAPA  1  FILA   8   COL  31 CAUDAL  -2074.557
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     9    CAPA  1  FILA   9   COL  30 CAUDAL   1756.141
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    10    CAPA  1  FILA  10   COL  29 CAUDAL  -6547.850
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    11    CAPA  1  FILA  11   COL  28 CAUDAL  -20037.58
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    12    CAPA  1  FILA  12   COL  28 CAUDAL  -18961.65
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    13    CAPA  1  FILA  12   COL  27 CAUDAL  -13428.86
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    14    CAPA  1  FILA  12   COL  26 CAUDAL  -14381.34
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    15    CAPA  1  FILA  13   COL  25 CAUDAL  -23569.29
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    16    CAPA  1  FILA  14   COL  24 CAUDAL  -19832.58
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    17    CAPA  1  FILA  15   COL  24 CAUDAL  -19799.81
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    18    CAPA  1  FILA  16   COL  24 CAUDAL  -20659.98
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    19    CAPA  1  FILA  17   COL  23 CAUDAL  -14229.09
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    20    CAPA  1  FILA  17   COL  22 CAUDAL  -9916.857
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    21    CAPA  1  FILA  20   COL  11 CAUDAL  -20744.93
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    22    CAPA  1  FILA  19   COL  12 CAUDAL  -20654.53
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    23    CAPA  1  FILA  18   COL  13 CAUDAL  -2158.273
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    24    CAPA  1  FILA  19   COL  14 CAUDAL   12314.40
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    25    CAPA  1  FILA  19   COL  15 CAUDAL   558.7322
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    26    CAPA  1  FILA  20   COL  16 CAUDAL  -1062.714
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    27    CAPA  1  FILA  19   COL  17 CAUDAL  -5429.556
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    28    CAPA  1  FILA  18   COL  18 CAUDAL  -3481.657
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    29    CAPA  1  FILA  19   COL  19 CAUDAL  -2126.164
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    30    CAPA  1  FILA   8   COL  18 CAUDAL   16365.88
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    31    CAPA  1  FILA   7   COL  19 CAUDAL   11175.25
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    32    CAPA  1  FILA   7   COL  20 CAUDAL   9730.159
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    33    CAPA  1  FILA   6   COL  21 CAUDAL   6482.400
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    34    CAPA  1  FILA   6   COL  22 CAUDAL  -1782.940
1                    COTA  EN CAPA  1 AL FINAL INTERVALO   1 PERIODO EXTRACC.  1
                 --------------------------------------------------------------

           1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18
19    20
          21    22    23    24    25    26    27    28    29    30    31    32
```

```
.....
.....
0  1  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   19.   19.
0  2  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   19.
0  3  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   26.   24.   21.   20.
0  4  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   27.   24.   20. 1000.
0  5  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   29.   25.   20. 1000.
0  6  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
       148.  143. 1000. 1000. 1000. 1000. 1000. 1000.   36.   28.   20. 1000.
0  7  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
171.  162.
       147.  137.  131. 1000.   91.   87.   82.   67.   51.   34.   22. 1000.
0  8  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.  172.
161.  151.
       139.  130.  123.  112.  100.   92.   81.   60.   38.   25.   21. 1000.
0  9  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.  157.
152.  144.
       134.  126.  121.  113.  101.   92.   77.   47.   23.    6. 1000. 1000.
0 10  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.  156.
151.  143.
       133.  125.  120.  113.  102.   89.   71.   52.   35. 1000. 1000. 1000.
0 11  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.  183.  176.  167.
157.  145.
```

```
       135.  126.  119.  111.   97.   81.   68.   58. 1000. 1000. 1000. 1000.
0 12  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.  210.  207.  203.  194.  184.  173.
162.  149.
       139.  130.  122.  111.   94.   75.   63.   56. 1000. 1000. 1000. 1000.
0 13  1000. 1000. 1000. 1000. 1000. 1000.  440.  436.  430.  425.  412.  321.  214.  212.  208.  200.  189.  178.
166.  153.
       141.  133.  126.  114.   96. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 14  1000. 1000. 1000. 1000. 1000.  458.  450.  441.  432.  424.  402.  373.  282.  221.  215.  207.  197.  185.
170.  156.
       145.  137.  130.  119. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 15  1000.  512.  508.  501.  488.  474.  460.  447.  434.  421.  406.  391.  313.  237.  224.  213.  202.  190.
177.  163.
       151.  144.  134.  120. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 16   520.  520.  520.  520.  496.  481.  465.  451.  437.  423.  409.  394.  327.  256.  235.  218.  207.  195.
182.  168.
       156.  148.  135.  121. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 17  1000. 1000. 1000.  520.  502.  486.  469.  453.  439.  425.  411.  396.  331.  263.  240.  222.  210.  199.
188.  178.
       165.  145.  132. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 18  1000. 1000. 1000.  520.  507.  495.  480.  465.  447.  431.  418.  392.  308.  255.  239.  223.  212.  201.
192.  186.
       180. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 19  1000. 1000. 1000.  520.  508.  498.  486.  469.  453.  442.  431.  420. 1000.  251.  238.  225.  218. 1000.
188.  187.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 20  1000. 1000. 1000.  520.  511.  502.  487.  471.  458.  447.  436. 1000. 1000. 1000. 1000.  224. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 21  1000. 1000. 1000.  520.  520.  520. 1000.  466.  460.  454. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 22  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0
```

BALANCE GLOBAL PARA TODO EL MODELO --- FINAL INTERVALO 1 PERIODO EXTRACC. 1

VOLUMS. ACUMULADOS L**3		CAUDALES PROM. INTERVALO L**3/T
ENT		ENT
ALMACENAMIENTO =	.00000	ALMACENAMIENTO = .00000
NUDOS NIV CONST =	.74078E+08	NUDOS NIV CONST = .20282E+06
POZOS =	.00000	POZOS = .00000
RECARGA =	.14798E+08	RECARGA = 40515.
NUDOS EXTERIORES =	.21324E+08	NUDOS EXTERIORES = 58383.
ENTRADAS =	.11020E+09	ENTRADAS = .30171E+06
SAL:		SAL:
ALMACENAMIENTO =	.00000	ALMACENAMIENTO = .00000
NUDOS NIV CONST =	.00000	NUDOS NIV CONST = .00000
POZOS =	.20510E+08	POZOS = 56152.
RECARGA =	.00000	RECARGA = .00000
NUDOS EXTERIORES =	.89683E+08	NUDOS EXTERIORES = .24554E+06

0 SALIDAS = .11019E+09 SALIDAS =
.30169E+06
0 DIFERENC.= 7616.0 DIFERENC.=
20.875
0 ERROR PORCENTUAL = .01 ERROR PORCENTUAL =
.01

0

RESUMEN TIEMPOS FINAL INTERVALO 1 PERIODO EXTRACC. 1

	SEGUNDOS	MINUTOS	HORAS	DIAS	AYOS
DURACION INTERVALO	.315576E+08	525960.	8766.00	365.250	1.00000
TIEMPO PERIOD. EXTRAC	.315576E+08	525960.	8766.00	365.250	1.00000
TIEMPO TOTAL SIMULADO	.315576E+08	525960.	8766.00	365.250	1.00000

1

ANEJO II.: SIMULACIÓN 3FO1.

SIMULACIÓN 3F01

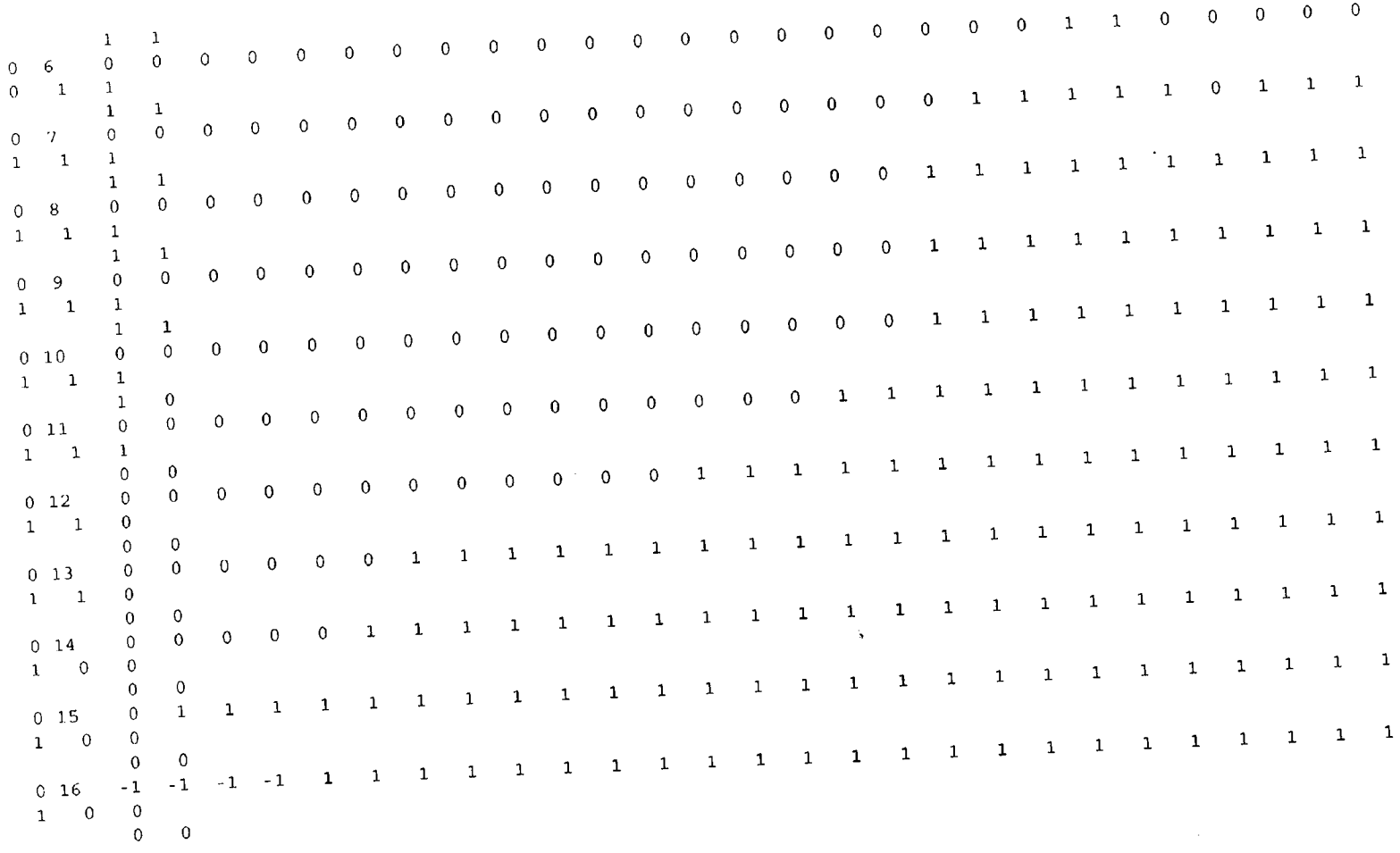
```
1                    ** MODELO McDONALD-HARBAUGH **   --versi¢n castellana de F.A.B.--
0MODELO MATEMATICO DEL SISTEMA ACUIFERO JAVALAMBRE (CASTELLON)                    REGIMEN PERMANENTE :: Archivos
CAS??P
    1CAPA(S)         22FILAS         32COLUMNAS
   1 PERIODO(S) EXTRAC. SIMULADO(S)
 UNIDAD DE TIEMPO: DIAS
0UNID. I/O:
         ELEMENTO:  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
       UNIDAD I/O: 10 20  0  0  0  0 70 80 90  0  0 99  0  0  0  0  0  0  0  0  0  0  0  0
0BAS1 -- MODELO BASICO,        VERSION 1, 12/08/83 LECT. ENT. UNIDAD No  1
 MATRICES RHS Y BUFF COMPARTEN MEMORIA.
 COTAS INIC. PRESERVADAS
   6394 ELEMENTOS MATRIZ X  USADOS POR  BAS
   6394 ELEMENTOS MATRIZ X DEL TOTAL DE  30000
0BCF1 -- NUDOS CENTRADOS EN LAS CELULAS VERS. 1, 12/08/83 ENTRADAS LEIDAS DE U 10
 REGIMEN PERMANENTE
      CAPA  ACUIFERO TIPO
      -------------------
         1         1
   1409 ELEMENTOS MATRIZ X USADOS POR BCF
   7803 ELEMENTOS MATRIZ X DEL TOTAL DE  30000
0WEL1 -- MODULO POZO , VERSION 1, 12/08/83 LECT. ENT. UNID 20
 MAXIMO DE    51 POZOS
    204 ELEMENTOS MATRIZ X USADOS PARA POZOS
   8007 ELEMENTOS MATRIX X USADOS DE     30000
0RCH1 -- APLICAC. RECARGA, VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 80
 OPCION 1 -- RECARGA CAPA SUPERIOR
    704 ELEMENTOS MATRIZ X USADOS EN RECARGA
   8711 ELEMENTOS MATRIZ X USADOS DE     30000
0GHB1 -- MODULO GHB , VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 70
 MAXIMO DE    38 NUDOS EXTERNOS (dep. potenc.)
 FLUJO INTERCELDAS SE IMPRIME CUANDO ICBCFL NO ES 0
    190 ELEMENTOS MATRIZ X EMPLEADOS EN NUDOS EXTERIORES
```

```
   8901 ELEMENTOS MATRIZ X EMPLEADOS DE  30000
0SIP1 -- MODULO SOLUCION "STRONG IMPLICIT PROCEDURE" , VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 90
 MAXIMO DE  500ITERACIONES PARA CERRAR
  5 PARAMETROS ITERACION
   4821 ELEMENTOS MATRIZ X EMPLEADOS EN SIP
  13722 ELEMENTOS MATRIZ X EMPLEADOS DE  30000
1MODELO MATEMATICO DEL SISTEMA ACUIFERO JAVALAMBRE (CASTELLON)                REGIMEN PERMANENTE :: Archivos
CAS??P
0
```

MATRIZ LIMITES PARA CAPA 1 LECTURA EN UNIDAD No 1 CON FORMATO : (32I3)

```
          1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27
28  29  30
        31  32
```

```
0  1    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
          1   1
0  2    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
          0   1
0  3    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   1   1
          1   1
0  4    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   1   1
          1   1
0  5    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   1   1
```



```
0 17    0   0   0  -1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
1   0   0
            0   0
0 18    0   0   0  -1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   0   0   0   0   0   0
0   0   0
            0   0
0 19    0   0   0  -1   1   1   1   1   1   1   1   1   0   1   1   1   1   0   1   1   0   0   0   0   0   0   0
0   0   0
            0   0
0 20    0   0   0  -1   1   1   1   1   1   1   1   0   0   0   0   1   0   0   0   0   0   0   0   0   0   0   0
0   0   0
            0   0
0 21    0   0   0  -1  -1  -1   0   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
            0   0
0 22    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
            0   0
0COTA DEL ACUIFERO FIJADA EN  999.99     EN NUDOS NO ACTIVOS (IBOUND = 0)
0
```

```
                                        COTA INICIAL:     CAPA  1 LECTURA EN UNIDAD     1   EN FORMATO: (32F5.0)
                                        ------------------------------------------------------------------------
----------

          1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18
19    20
         21    22    23    24    25    26    27    28    29    30    31    32

.....................................................................................................
.............
0  1     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.   25.   20.
```

0 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	20.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0 3	0.	0.	0.	0.	0.	0.	0.	0.	40.	35.	20.	20.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0 4	0.	0.	0.	0.	0.	0.	0.	0.	40.	35.	20.	20.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0 5	0.	0.	0.	0.	0.	0.	0.	0.	30.	25.	20.	20.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0 6	0.	0.	0.	0.	0.	0.	0.	0.	30.	25.	20.	20.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0 7	160.	140.	0.	0.	0.	0.	0.	0.	30.	25.	20.	20.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	200.
190.	180.	160.	140.	120.	0.	75.	65.	55.	50.	30.	25.	20.	20.	0.	0.	0.	0.	0.	0.	0.	0.	0.	200.
0 8	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	200.
190.	180.	160.	140.	120.	100.	75.	65.	55.	50.	30.	25.	20.	20.	0.	0.	0.	0.	0.	0.	0.	0.	0.	200.
0 9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	200.
190.	180.	160.	140.	120.	100.	75.	65.	55.	50.	30.	25.	20.	20.	0.	0.	0.	0.	0.	0.	0.	0.	0.	200.
0 10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	200.
190.	180.	160.	140.	120.	100.	75.	65.	55.	40.	30.	25.	20.	0.	0.	0.	0.	0.	0.	0.	0.	250.	210.	200.
0 11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	200.
190.	180.	160.	140.	120.	100.	75.	65.	55.	40.	30.	25.	0.	0.	0.	350.	300.	240.	220.	210.	200.			
0 12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	200.
190.	180.	160.	140.	120.	100.	75.	65.	55.	40.	30.	0.	0.	0.	350.	300.	240.	220.	210.	200.				
0 13	0.	0.	0.	0.	0.	0.	0.	460.	450.	430.	410.	390.	370.	350.	300.	240.	220.	210.	200.				
190.	180.																						

```
        160.  140.  120.  100.   75.   65.   55.   40.   30.    0.    0.    0.
0 14      0.    0.    0.    0.    0.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   40.    0.    0.    0.    0.
0 15      0.  600.  500.  500.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   40.    0.    0.    0.    0.
0 16    520.  520.  520.  520.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   40.    0.    0.    0.    0.
0 17      0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   40.    0.    0.    0.    0.
0 18      0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 19      0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.  370.    0.  300.  240.  220.  210.    0.
190.  180.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 20      0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.    0.    0.    0.    0.  220.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 21      0.    0.    0.  520.  520.  520.  460.  400.  430.  410.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 22      0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0FORMATO IMPRESION COTAS -- NUMERO    7    FORMATO IMPRESION DESCENSOS -- NUMEROO   7
0COTAS ARCHIVADA EN UNIDAD N  0    DESCENSOS ARCHIVADOS EN UNIDAD   0
0CONTROL DE SALIDA EN TODOS LOS INTERVALOS
0                                                    COLUMN A FILA ANISOTROP. =   1.000000
0                                                                        DELX =   1000.000
0                                                                        DELY =   1500.000
0
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HYD. COND. DIR. FILAS: CAPA 1 LECTURA EN UNIDAD 10 EN FORMATO: (32F5.2)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30	31	32								
0 1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10	1.13								
0 2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.13								
0 3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	1.13								
0 4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	7.36								
0 5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	7.36								
0 6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.92	1.63	.00	.00	.00	.00	.00	.00	2.41	2.41	2.41	8.74								
0 7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76	.78
	.92	1.63	3.15	.00	6.21	6.21	4.46	1.03	2.41	2.41	2.41	8.74								
0 8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.71	.87	.90

	.92	1.63	3.15	2.90	6.21	6.21	6.21	1.70	2.41	3.17	2.41	9.43						
0 9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10
1.13	1.15																	
	1.15	2.05	3.96	2.90	6.21	6.21	6.21	5.17	2.41	3.24	7.87	9.43						
0 10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10
1.13	1.15																	
	1.15	2.05	3.96	4.14	4.26	6.21	6.21	6.21	2.41	8.05	5.57	.00						
0 11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.03	1.13	1.10
1.06	1.10																	
	1.15	1.47	3.52	4.14	4.26	4.26	6.21	6.21	3.45	8.05	.00	.00						
0 12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.91	3.38	4.00	1.54	1.59	1.56
1.52	1.59																	
	1.66	2.05	3.15	4.14	4.26	4.26	6.21	6.21	2.18	.00	.00	.00						
0 13	.00	.00	.00	.00	.00	.00	2.23	2.21	3.29	3.27	2.14	1.22	3.66	3.22	3.75	1.54	1.59	1.56
1.59	1.75																	
	1.66	4.30	3.77	3.73	3.52	14.28	14.28	14.28	2.18	.00	.00	.00						
0 14	.00	.00	.00	.00	.00	1.72	2.23	2.21	3.29	3.27	2.14	3.43	3.04	3.38	3.38	1.54	1.59	1.01
1.03	1.13																	
	2.71	2.76	3.47	3.73	8.10	9.66	9.66	9.66	.00	.00	.00	.00						
0 15	.00	.62	1.38	1.38	2.39	2.41	2.46	2.48	3.01	3.11	3.47	3.47	2.60	2.60	1.59	1.31	1.91	1.59
1.61	1.52																	
	1.61	2.35	6.21	4.46	10.23	9.66	9.66	9.66	.00	.00	.00	.00						
0 16	1.38	1.38	1.38	1.38	3.01	3.08	2.85	2.92	3.01	3.11	3.47	3.47	2.60	1.54	.78	1.10	1.59	1.31
1.33	1.26																	
	2.32	2.35	6.21	4.46	10.23	9.66	9.66	9.66	.00	.00	.00	.00						
0 17	.00	.00	.00	1.72	3.38	3.36	3.36	2.92	3.01	3.11	3.22	3.13	2.60	1.82	.78	1.10	1.59	1.89
1.91	1.82																	
	2.21	3.56	6.21	10.23	10.23	9.66	9.66	9.66	.00	.00	.00	.00						
0 18	.00	.00	.00	1.72	3.38	2.58	2.69	3.89	2.92	3.89	2.41	2.76	2.02	1.82	.78	1.10	2.28	1.45
2.21	2.74																	
	2.53	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
0 19	.00	.00	.00	1.72	2.23	2.60	3.36	2.81	2.76	2.85	2.94	2.85	.00	1.54	.78	1.10	2.28	.00
3.11	3.45																	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						

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0 20    .00   .00   .00  1.72  2.23  2.28  2.64  3.17  2.76  2.85  2.94   .00   .00   .00   .00  1.56   .00   .00
.00   .00
        .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
0 21    .00   .00   .00  1.72  3.24  3.24   .00  4.32  2.92  3.89   .00   .00   .00   .00   .00   .00   .00   .00
.00   .00
        .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
0 22    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
.00   .00
        .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
0
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FONDO : CAPA 1 LECTURA EN UNIDAD 10 EN FORMATO: (32F5.0)

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          1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18
19    20
         21    22    23    24    25    26    27    28    29    30    31    32

.....................................................................................................................
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0  1     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.     0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -200. -100.
0  2     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.     0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -100.
0  3     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.     0.
          0.    0.    0.    0.    0.    0.    0.    0. -200.    0. -100. -100.
0  4     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.     0.
          0.    0.    0.    0.    0.    0.    0.    0. -200.    0. -100. -100.
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0  5     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0. -200.     0. -100. -100.
0  6     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
       -500. -500.     0.     0.     0.     0.     0.     0.     0.     0. -100. -100.
0  7     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -
600. -600.
       -500. -500. -500.     0. -100. -100. -200. -200. -150.     0. -100. -100.
0  8     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -650. -
500. -500.
       -500. -500. -500. -200. -100. -100.     0. -100. -100. -100. -100. -100.
0  9     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -650. -
650. -650.
       -650. -650. -650. -200. -100. -100.     0.     0. -150. -150. -100. -100.
0 10     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -650. -
650. -650.
       -650. -650. -650. -200. -200.     0.     0.     0. -150. -100. -100.     0.
0 11     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -650. -650. -650. -
500. -500.
       -650. -650. -500. -200. -200. -200. -200. -200. -200. -200.     0.     0.
0 12     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -400. -500. -500. -650. -650. -650. -
500. -550.
       -650. -650. -500. -200. -200. -200. -200. -200. -350.     0.     0.     0.
0 13     0.     0.     0.     0.     0.     0.   100.   100.   100.   100.   300.   300. -400. -550. -550. -650. -650. -650. -
650. -600.
       -650. -650. -500. -150. -200. -350. -350. -350. -520.     0.     0.     0.
0 14     0.     0.     0.     0.     0.   200.   100.   100.   100.   100.   300.   200.   250. -500. -650. -650. -650. -650. -
650. -600.
       -650. -650. -550. -150. -400. -350. -350. -350.     0.     0.     0.     0.
0 15     0. -250. -250. -250. -250. -250. -250. -250. -150. -150. -100. -100.   250. -400. -650. -650. -650. -450. -
450.   500.
       -650. -650.     0. -150. -400. -400. -400. -525.     0.     0.     0.     0.
0 16  -250. -250. -250. -250. -100. -100. -150. -150. -150. -150. -100. -100.   250. -300. -650. -650. -650. -450. -
450.   500.
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      -650. -650.    0. -150. -400. -400. -525. -525.    0.    0.    0.    0.
0 17     0.    0.    0. -100.  100.  100.  100. -150. -150. -150. -150. -150.  250. -200. -650. -650. -650. -450. -
450. -500.
      -250.    0.    0. -400. -400. -400. -525. -525.    0.    0.    0.    0.
0 18     0.    0.    0. -100.  100.  200.  200.  350.  350.  300.  100.  300.  250. -200. -650. -650. -650. -650. -
650. -200.
      -200.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 19     0.    0.    0. -100. -300. -200.  100.  200. -200. -200. -200. -200.    0. -300. -650. -650. -650.    0.
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         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 20     0.    0.    0. -100. -300. -300. -200. -100. -200. -200. -200.    0.    0.    0.    0. -650.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 21     0.    0.    0. -100. -100. -100.  300.  300.  350.  350.    0.    0.    0.    0.    0.    0.    0.    0.
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         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 22     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
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      SOLUCION POR "STRONGLY IMPLICIT PROCEDURE"
      ------------------------------------------
ITERACIONES MAXIMAS PARA CERRAR      =       500
            PARAMETRO ACELERADOR     =    1.0000
 CRITERIO DE CIERRE EN POTENCIAL     =    .50000E-01
 INTERV. IMPRIMIR CAMBIO POTENCIAL   =        10
 CALCULA PARAM. ITERACION DEL WSEED CALCULADO POR EL MODELO
PERIODO EXTRAC. N    1, DURACION    365.2500
 ------------------------------------------------

NUMERO DE INTERVALOS =      1

 MULTIPLICADOR INTERV.      1.000
```

0 51 POZOS

DURACION INTERVALO UNO = 365.2500

CAPA	FILA	COL	CAUDAL	POZO No.
1	19	12	-24.000	1
1	14	10	-432.00	2
1	12	17	-216.00	3
1	11	20	-4.0000	4
1	11	20	-315.00	5
1	17	21	-767.00	6
1	17	21	-10.000	7
1	12	17	-68.000	8
1	13	17	-360.00	9
1	11	20	-252.00	10
1	11	21	-30.000	11
1	7	23	-153.00	12
1	7	23	-411.00	13
1	8	29	-255.00	14
1	8	29	-3353.0	15
1	9	20	-1095.0	16
1	13	25	-1972.0	17
1	18	7	-27.000	18
1	18	7	-56.000	19
1	12	20	-821.00	20
1	9	29	-1969.0	21
1	9	30	-6784.0	22
1	9	30	-6146.0	23
1	9	29	-1917.0	24
1	9	28	-2272.0	25
1	9	28	-4680.0	26
1	10	28	-1917.0	27
1	10	27	-3434.0	28
1	11	31	-1.0000	29
1	5	32	-2922.0	30

1	18	12	-8471.0	31
1	4	32	-2739.0	32
1	14	23	-630.00	33
1	10	20	-1660.0	34
1	14	15	-54.000	35
1	19	12	-24.000	36
1	19	17	-100.00	37
1	17	20	-261.00	38
1	17	17	-153.00	39
1	12	18	-137.00	40
1	13	29	-4438.0	41
1	15	28	-178.00	42
1	10	31	-1972.0	43
1	16	26	-1479.0	44
1	16	26	-1479.0	45
1	16	26	-411.00	46
1	17	27	-958.00	47
1	11	30	-559.00	48
1	11	30	-418.00	49
1	10	31	-1746.0	50
1	8	31	-835.00	51

0

RECARGA LECTURA EN UNIDAD 80 EN FORMATO: (32F6.0)

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1 2 3 4 5 6 7 8 9 10
11
12 13 14 15 16 17 18 19 20 21
22
23 24 25 26 27 28 29 30 31 32

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        .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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        .000       .000       .000       .000       .000       .000     6.800E-05  6.800E-05  1.533E-04    .000
0  4    .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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        .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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        .000       .000       .000       .000       .000       .000     1.020E-04  1.193E-04    .000     1.707E-04
0  5    .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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        .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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        .000       .000       .000     3.800E-05    .000       .000     1.193E-04  1.533E-04    .000     1.707E-04
0  6    .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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        .000       .000       .000       .000       .000       .000       .000       .000       .000     5.067E-05
8.867E-05
        .000       .000       .000     4.267E-05  4.733E-05    .000     6.800E-05  8.533E-05    .000     1.707E-04
0  7    .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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        .000       .000       .000       .000       .000       .000       .000     5.067E-05  1.013E-04  1.140E-04
2.533E-05
      2.533E-05    .000     5.067E-05  1.367E-04  6.800E-05  3.400E-05  8.533E-05  3.400E-05  5.067E-05  1.707E-04
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0  8    .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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        .000       .000       .000       .000       .000       .000      3.800E-05  1.273E-04  1.273E-04  1.267E-05
.000
        .000      2.533E-05  1.193E-04  1.193E-04  1.020E-04  3.400E-05  1.367E-04  3.400E-05  5.067E-05  1.707E-04
0  9    .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
.000
        .000       .000       .000       .000       .000       .000      1.013E-04  7.600E-05  6.333E-05   .000
.000
        .000      3.800E-05  3.400E-05  1.367E-04  1.193E-04  3.400E-05   .000       .000      1.707E-04  1.707E-04
0 10    .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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        .000       .000       .000       .000       .000       .000      3.800E-05   .000       .000       .000
.000
        .000      3.067E-04  5.067E-05  3.400E-05  3.400E-05  1.667E-05   .000      1.707E-04  1.707E-04   .000
0 11    .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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        .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
.000
        .000      3.067E-03  8.533E-05  3.400E-05  1.667E-05   .000      1.707E-04  1.707E-04   .000       .000
0 12    .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
.000
        .000      1.933E-05  6.800E-05  8.867E-05   .000       .000       .000      1.273E-04  6.333E-05   .000
2.533E-05
       1.267E-05  3.067E-03   .000       .000       .000       .000      1.707E-04   .000       .000       .000
0 13    .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
6.800E-05
       2.933E-05  1.933E-05   .000      1.140E-04   .000       .000       .000      2.533E-05  1.267E-05   .000
1.267E-05
       1.267E-05  2.533E-05   .000       .000       .000      1.667E-05  1.533E-04   .000       .000       .000
0 14    .000       .000       .000       .000       .000       .000       .000       .000       .000      9.333E-06
7.800E-05
       6.800E-05  4.867E-05   .000      3.800E-05   .000       .000       .000       .000       .000       .000
.000
       1.267E-05  1.013E-04  1.193E-04  5.067E-05  1.667E-05  1.367E-04   .000       .000       .000       .000
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0 15     .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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         .000       6.800E-05    .000        .000        .000       2.533E-05    .000        .000       3.800E-05   1.267E-05
3.067E-03
        3.111E-03   1.140E-04   1.707E-04   1.533E-04   1.707E-04   1.707E-04    .000        .000        .000        .000
0 16     .000        .000        .000        .000        .000        .000        .000        .000        .000       1.933E-05
.000
        1.933E-05   9.733E-05    .000        .000       1.267E-05   5.067E-05    .000        .000       1.267E-05   3.800E-05
3.067E-03
        1.273E-04   1.013E-04   1.020E-04   1.533E-04   1.707E-04   1.707E-04    .000        .000        .000        .000
0 17     .000        .000        .000       4.867E-05    .000        .000        .000        .000        .000       8.800E-05
2.933E-05
         .000       7.800E-05   5.867E-05    .000        .000        .000        .000        .000       2.533E-05   6.333E-05
1.267E-05
        1.140E-04   3.800E-05   1.707E-04   1.707E-04   1.707E-04   1.707E-04    .000        .000        .000        .000
0 18     .000        .000        .000        .000       7.800E-05   5.867E-05    .000        .000        .000       7.800E-05
9.733E-05
        6.800E-05   9.733E-05   6.800E-05    .000       7.600E-05   8.867E-05   1.013E-04   8.867E-05   6.333E-05   3.800E-05
.000
        2.600E-05    .000        .000        .000        .000        .000        .000        .000        .000        .000
0 19     .000        .000        .000        .000        .000        .000        .000        .000        .000       3.867E-05
8.800E-05
        4.867E-05   1.667E-05    .000       2.533E-05   2.533E-05   2.533E-05    .000       3.800E-05   1.267E-05   1.293E-04
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         .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
0 20     .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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0 21     .000        .000        .000        .000        .000        .000        .000       5.867E-05   7.800E-05   1.933E-05
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         .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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         .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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0

38 NUDOS EXTERIORES
0

CAPA	FIL	COL	COTA	CONDUCTANCIA	EXTER. N.
1	17	24	50.00	275.0	1
1	2	32	19.00	290.0	2
1	3	32	19.00	265.0	3
1	4	32	19.00	265.0	4
1	5	32	14.00	395.0	5
1	6	32	10.00	460.0	6
1	7	32	10.00	510.0	7
1	8	32	10.00	520.0	8
1	9	32	6.000	650.0	9
1	10	31	12.00	525.0	10
1	11	30	8.000	850.0	11
1	12	29	14.00	700.0	12
1	13	29	10.00	920.0	13
1	14	28	18.00	876.0	14
1	15	28	18.00	859.0	15
1	17	28	18.00	858.0	16
1	17	27	49.00	730.0	17
1	17	26	52.00	710.0	18
1	17	25	50.00	690.0	19
1	17	22	105.0	677.0	20
1	20	11	370.0	312.0	21
1	19	12	350.0	295.0	22
1	18	13	300.0	275.0	23
1	19	14	300.0	250.0	24
1	19	15	240.0	275.0	25

```
                    1       20      16      220.0           285.0           26
                    1       19      17      200.0           295.0           27
                    1       18      18      190.0           305.0           28
                    1       19      19      180.0           275.0           29
                    1        8      18      200.0           585.0           30
                    1        7      19      190.0           576.0           31
                    1       16      28      18.00           858.0           32
                    1       17      24      100.0           650.0           33
                    1       17      23      110.0           677.0           34
                    1        6      21      160.0           557.0           35
                    1        6      22      140.0           576.0           36
                    1        1      32      19.00           290.0           37
                    1       18      13      220.0           250.0           38
0"SEED" PROM. =   .00253851
 "SEED" MIN.  =   .00055963
0
    5 PARAMETROS ITERACION CALCULADOS DEL  "SEED" PROM.:

            .0000000E+00    .7755370E+00    .9496164E+00    .9886907E+00    .9974615E+00
0
    18 ITERACIONES INTERVALO N.   1 PERIODO EXTRACC.  1
0CAMBIO POT. MAX. PARA CADA ITERACION  :
0 CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO
POT.  CAPA,FIL,COL
 ---------------------------------------------------------------------------------------------------------------
-----------------
   -89.10      (  1, 15,  2)  -35.34      (  1, 12, 14)  -29.69      (  1, 13, 15)  -33.40      (  1, 12, 13)   24.44
(  1, 13, 12)
   -18.08      (  1, 13, 12)   6.701      (  1, 13, 11)   2.991      (  1, 13, 13)   2.162      (  1, 14, 14)  -1.763
(  1, 14, 12)
   -1.789      (  1, 13, 11)  -.3189      (  1, 14,  8)  -.2829      (  1, 13,  9)  -.3085      (  1, 13, 13)   .1572
(  1, 13, 12)
   -.1144      (  1, 13, 12)   .5409E-01 (  1, 13, 12)   .2239E-01 (  1, 13, 13)
0
0INDIC. IMPRESION COTAS/DESC.= 1      INDICADOR IMPRIMIR BALANCE = 1      INDICADOR FLUJO INTERCELDAS = 1
```

```
0INDICADORES SALIDA POR CAPA:
          COTA    DESCENSO  COTA  DESCENSO
  CAPA  IMPRIMIR  IMPRIMIR SALVA   SALVA
 ----------------------------------------
    1       1         0       0       0
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    1   CAPA  1  FILA  17  COL  24 CAUDAL  -5842.640
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    2   CAPA  1  FILA   2  COL  32 CAUDAL   79.78860
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    3   CAPA  1  FILA   3  COL  32 CAUDAL   367.1252
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    4   CAPA  1  FILA   4  COL  32 CAUDAL   1573.220
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    5   CAPA  1  FILA   5  COL  32 CAUDAL   745.7007
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    6   CAPA  1  FILA   6  COL  32 CAUDAL  -1437.923
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    7   CAPA  1  FILA   7  COL  32 CAUDAL  -1862.302
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    8   CAPA  1  FILA   8  COL  32 CAUDAL  -1777.948
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    9   CAPA  1  FILA   9  COL  32 CAUDAL  -4064.791
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   10   CAPA  1  FILA  10  COL  31 CAUDAL  -2537.217
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   11   CAPA  1  FILA  11  COL  30 CAUDAL  -15679.67
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   12   CAPA  1  FILA  12  COL  29 CAUDAL  -18113.42
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   13   CAPA  1  FILA  13  COL  29 CAUDAL  -28590.11
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   14   CAPA  1  FILA  14  COL  28 CAUDAL  -29550.46
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   15   CAPA  1  FILA  15  COL  28 CAUDAL  -29187.89
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   16   CAPA  1  FILA  17  COL  28 CAUDAL  -28997.69
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   17   CAPA  1  FILA  17  COL  27 CAUDAL  -4476.563
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   18   CAPA  1  FILA  17  COL  26 CAUDAL  -5236.884
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   19   CAPA  1  FILA  17  COL  25 CAUDAL  -10074.32
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   20   CAPA  1  FILA  17  COL  22 CAUDAL  -6962.999
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   21   CAPA  1  FILA  20  COL  11 CAUDAL  -20755.07
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   22   CAPA  1  FILA  19  COL  12 CAUDAL  -20629.12
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   23   CAPA  1  FILA  18  COL  13 CAUDAL   4634.977
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   24   CAPA  1  FILA  19  COL  14 CAUDAL   15291.31
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   25   CAPA  1  FILA  19  COL  15 CAUDAL   3712.672
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   26   CAPA  1  FILA  20  COL  16 CAUDAL   1372.489
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   27   CAPA  1  FILA  19  COL  17 CAUDAL  -1865.645
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   28   CAPA  1  FILA  18  COL  18 CAUDAL   1235.507
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   29   CAPA  1  FILA  19  COL  19 CAUDAL   1554.663
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE   30   CAPA  1  FILA   8  COL  18 CAUDAL   21385.36
```

```
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    31    CAPA  1  FILA   7   COL  19 CAUDAL   16961.63
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    32    CAPA  1  FILA  16   COL  28 CAUDAL  -29178.38
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    33    CAPA  1  FILA  17   COL  24 CAUDAL   18690.12
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    34    CAPA  1  FILA  17   COL  23 CAUDAL   12270.08
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    35    CAPA  1  FILA   6   COL  21 CAUDAL   9538.735
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    36    CAPA  1  FILA   6   COL  22 CAUDAL   1572.715
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    37    CAPA  1  FILA   1   COL  32 CAUDAL   18.78212
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    38    CAPA  1  FILA  18   COL  13 CAUDAL  -15786.38
1                      COTA  EN CAPA  1 AL FINAL INTERVALO   1 PERIODO EXTRACC.  1
          ----------------------------------------------------------------------

          1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18
19    20
         21    22    23    24    25    26    27    28    29    30    31    32

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0  1  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
       1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   19.   19.
0  2  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
       1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   19.
0  3  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
       1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   26.   23.   19.   18.
0  4  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
       1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   26.   22.   15.   13.
0  5  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
       1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   28.   23.   14.   12.
0  6  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
        143.  137. 1000. 1000. 1000. 1000. 1000. 1000.   33.   24.   15.   13.
```

0 7 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
161. 146.
135. 126. 120. 1000. 82. 78. 73. 61. 47. 30. 17. 14.
0 8 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 163.
150. 137.
126. 117. 111. 101. 89. 82. 72. 54. 35. 24. 17. 13.
0 9 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 143.
137. 129.
120. 112. 107. 99. 90. 82. 69. 42. 25. 15. 14. 12.
0 10 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 139.
134. 125.
117. 109. 104. 98. 89. 78. 62. 45. 32. 23. 17. 1000.
0 11 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 162. 156. 147.
137. 126.
116. 108. 102. 95. 83. 71. 60. 50. 38. 26. 1000. 1000.
0 12 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 187. 185. 182. 173. 162. 152.
141. 128.
117. 108. 101. 92. 79. 66. 58. 51. 40. 1000. 1000. 1000.
0 13 1000. 1000. 1000. 1000. 1000. 1000. 441. 437. 432. 427. 416. 315. 192. 190. 186. 179. 168. 156.
143. 130.
118. 108. 101. 88. 70. 60. 56. 52. 41. 1000. 1000. 1000.
0 14 1000. 1000. 1000. 1000. 1000. 459. 451. 442. 433. 425. 406. 379. 273. 199. 194. 186. 175. 162.
147. 131.
119. 110. 100. 82. 67. 61. 56. 52. 1000. 1000. 1000. 1000.
0 15 1000. 512. 508. 501. 488. 475. 461. 448. 435. 422. 408. 393. 304. 217. 204. 192. 181. 169.
154. 138.
125. 115. 99. 76. 65. 61. 56. 52. 1000. 1000. 1000. 1000.
0 16 520. 520. 520. 520. 497. 481. 466. 451. 437. 424. 409. 395. 319. 238. 216. 199. 187. 175.
160. 144.
130. 119. 98. 74. 64. 60. 56. 52. 1000. 1000. 1000. 1000.
0 17 1000. 1000. 1000. 520. 502. 486. 470. 454. 440. 426. 412. 396. 322. 246. 223. 204. 192. 181.
169. 156.
142. 115. 92. 71. 65. 59. 55. 52. 1000. 1000. 1000. 1000.
0 18 1000. 1000. 1000. 520. 507. 495. 480. 465. 447. 431. 418. 391. 283. 236. 222. 208. 197. 186.
175. 167.

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          160. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 19   1000. 1000. 1000.  520.  508.  499.  486.  469.  453.  442.  431.  420. 1000.  239.  226.  213.  206. 1000.
174.   172.
       1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 20   1000. 1000. 1000.  520.  511.  502.  487.  471.  458.  447.  437. 1000. 1000. 1000. 1000.  215. 1000. 1000.
1000. 1000.
       1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 21   1000. 1000. 1000.  520.  520.  520. 1000.  466.  460.  454. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
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0 22   1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
       1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0

                    BALANCE GLOBAL PARA TODO EL MODELO --- FINAL INTERVALO  1 PERIODO EXTRACC.  1
                    ------------------------------------------------------------------------
0             VOLUMS. ACUMULADOS      L**3                                  CAUDALES PROM. INTERVALO
L**3/T
              ------------------                                            -----------------------

                   ENT                                                              ENT
                   ---                                                              ---
             ALMACENAMIENTO =     .00000                                  ALMACENAMIENTO =
.00000
           NUDOS NIV CONST =     .73602E+08                              NUDOS NIV CONST =
.20151E+06
                     POZOS =     .00000                                            POZOS =
.00000
                   RECARGA =     .15147E+08                                      RECARGA =
41471.
         NUDOS EXTERIORES =     .40545E+08                               NUDOS EXTERIORES =
.11100E+06
```

```
0                   ENTRADAS =    .12929E+09                                    ENTRADAS =
.35399E+06
0                 SAL:                                                        SAL:
                  ----                                                        ----
             ALMACENAMIENTO =    .00000                                  ALMACENAMIENTO =
.00000
            NUDOS NIV CONST =    .00000                                 NUDOS NIV CONST =
.00000
                      POZOS =    .26066E+08                                       POZOS =
71364.
                    RECARGA =    .00000                                         RECARGA =
.00000
           NUDOS EXTERIORES =    .10322E+09                            NUDOS EXTERIORES =
.28261E+06
0                   SALIDAS =    .12929E+09                                     SALIDAS =
.35397E+06
0                  DIFERENC.=   5824.0                                        DIFERENC.=
15.938
0          ERROR PORCENTUAL =                   .00                    ERROR PORCENTUAL =
.00


0


          RESUMEN TIEMPOS FINAL INTERVALO   1 PERIODO EXTRACC.  1
                               SEGUNDOS     MINUTOS         HORAS          DIAS          AÑOS
                            ------------------------------------------------------------------
    DURACION INTERVALO        .315576E+08   525960.       8766.00       365.250       1.00000
  TIEMPO PERIOD. EXTRAC       .315576E+08   525960.       8766.00       365.250       1.00000
  TIEMPO TOTAL SIMULADO       .315576E+08   525960.       8766.00       365.250       1.00000
1
```

ANEJO III.: SIMULACIÓN 4.

SIMULACIÓN 4

```
1                    ** MODELO McDONALD-HARBAUGH **    --versi¢n castellana de F.A.B.--
0MODELO MATEMATICO DEL SISTEMA ACUIFERO JAVALAMBRE (CASTELLON)                    REGIMEN PERMANENTE :: Archivos
CAS??P
    1CAPA(S)         22FILAS         32COLUMNAS
   1 PERIODO(S) EXTRAC. SIMULADO(S)
 UNIDAD DE TIEMPO: DIAS
0UNID. I/O:
         ELEMENTO:  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
       UNIDAD I/O: 10 20  0  0  0  0 70 80 90  0  0 99  0  0  0  0  0  0  0  0  0  0  0  0
0BAS1 -- MODELO BASICO,        VERSION 1, 12/08/83 LECT. ENT. UNIDAD No  1
 MATRICES RHS Y BUFF COMPARTEN MEMORIA.
 COTAS INIC. PRESERVADAS
   6394 ELEMENTOS MATRIZ X  USADOS POR  BAS
   6394 ELEMENTOS MATRIZ X DEL TOTAL DE  30000
0BCF1 -- NUDOS CENTRADOS EN LAS CELULAS VERS. 1, 12/08/83 ENTRADAS LEIDAS DE U 10
 REGIMEN PERMANENTE
      CAPA  ACUIFERO TIPO
      ------------------
         1         1
   1409 ELEMENTOS MATRIZ X USADOS POR BCF
   7803 ELEMENTOS MATRIZ X DEL TOTAL DE  30000
0WEL1 -- MODULO POZO , VERSION 1, 12/08/83 LECT. ENT. UNID 20
 MAXIMO DE    57 POZOS
    228 ELEMENTOS MATRIZ X USADOS PARA POZOS
   8031 ELEMENTOS MATRIX X USADOS DE     30000
0RCH1 -- APLICAC. RECARGA, VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 80
 OPCION 1 -- RECARGA CAPA SUPERIOR
    704 ELEMENTOS MATRIZ X USADOS EN RECARGA
   8735 ELEMENTOS MATRIZ X USADOS DE     30000
0GHB1 -- MODULO GHB , VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 70
 MAXIMO DE    37 NUDOS EXTERNOS (dep. potenc.)
 FLUJO INTERCELDAS SE IMPRIME CUANDO ICBCFL NO ES 0
    185 ELEMENTOS MATRIZ X EMPLEADOS EN NUDOS EXTERIORES
```

```
   8920 ELEMENTOS MATRIZ X EMPLEADOS DE  30000
0SIP1 -- MODULO SOLUCION "STRONG IMPLICIT PROCEDURE" , VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 90
 MAXIMO DE  500ITERACIONES PARA CERRAR
  5 PARAMETROS ITERACION
   4821 ELEMENTOS MATRIZ X EMPLEADOS EN SIP
  13741 ELEMENTOS MATRIZ X EMPLEADOS DE  30000
1MODELO MATEMATICO DEL SISTEMA ACUIFERO JAVALAMBRE (CASTELLON)                  REGIMEN PERMANENTE :: Archivos
CAS??P
0

                                         MATRIZ LIMITES PARA CAPA  1 LECTURA EN UNIDAD No  1 CON FORMATO : (32I3)
                              -----------------------------------------------------------------------------------------
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        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27
28  29  30
       31  32

.......................................................................................................................
.............
0  1    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
        1   1
0  2    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
        0   1
0  3    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   1   1
        1   1
0  4    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   1   1
        1   1
0  5    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   1   1
```

```
                1   1
0   6           0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   0   0   0   0   0
0     1         1
                1   1
0   7           0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   1   0   1   1   1
1     1         1
                1   1
0   8           0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   1   1   1   1   1   1
1     1         1
                1   1
0   9           0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   1   1   1   1   1   1
1     1         1
                1   1
0  10           0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   1   1   1   1   1   1
1     1         1
                1   0
0  11           0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   1   1   1   1   1   1   1
1     1         1
                0   0
0  12           0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
1     1         0
                0   0
0  13           0   0   0   0   0   0   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
1     1         0
                0   0
0  14           0   0   0   0   0   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
1     0         0
                0   0
0  15           0   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
1     0         0
                0   0
0  16          -1  -1  -1  -1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
1     0         0
                0   0
```

```
0 17    0   0   0  -1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
1   0   0
            0   0
0 18    0   0   0  -1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   0   0   0   0   0   0
0   0   0
            0   0
0 19    0   0   0  -1   1   1   1   1   1   1   1   1   0   1   1   1   1   0   1   1   0   0   0   0   0   0   0
0   0   0
            0   0
0 20    0   0   0  -1   1   1   1   1   1   1   1   0   0   0   0   1   0   0   0   0   0   0   0   0   0   0   0
0   0   0
            0   0
0 21    0   0   0  -1  -1  -1   0   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
            0   0
0 22    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
            0   0
0COTA DEL ACUIFERO FIJADA EN  999.99     EN NUDOS NO ACTIVOS (IBOUND = 0)
0
```

```
                                        COTA INICIAL:     CAPA  1 LECTURA EN UNIDAD     1   EN FORMATO: (32F5.0)
-----------------------------------------------------------------------------------------------------------------
----------

          1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18
19    20
         21    22    23    24    25    26    27    28    29    30    31    32

.....................................................................................................................
.....................
0  1     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.   25.   15.
```

```
0  2     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.   15.
0  3     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.   40.   35.   20.   15.
0  4     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.   40.   35.   20.   15.
0  5     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.   30.   25.   20.   15.
0  6     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
       160.  140.    0.    0.    0.    0.    0.    0.   30.   25.   20.   15.
0  7     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
190.  180.
       160.  140.  120.    0.   75.   65.   55.   50.   30.   25.   20.   15.
0  8     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.  200.
190.  180.
       160.  140.  120.  100.   75.   65.   55.   50.   30.   25.   20.   15.
0  9     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.  200.
190.  180.
       160.  140.  120.  100.   75.   65.   55.   50.   30.   25.   20.   15.
0 10     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.  200.
190.  180.
       160.  140.  120.  100.   75.   65.   55.   40.   30.   25.   20.    0.
0 11     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.  250.  210.  200.
190.  180.
       160.  140.  120.  100.   75.   65.   55.   40.   30.   25.    0.    0.
0 12     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.  350.  300.  240.  220.  210.  200.
190.  180.
       160.  140.  120.  100.   75.   65.   55.   40.   30.    0.    0.    0.
0 13     0.    0.    0.    0.    0.    0.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
```

```
        160.  140.  120.  100.   75.   65.   55.   40.   30.    0.    0.    0.
0 14      0.    0.    0.    0.    0.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   40.    0.    0.    0.    0.
0 15      0.  600.  500.  500.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   40.    0.    0.    0.    0.
0 16    520.  520.  520.  520.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   40.    0.    0.    0.    0.
0 17      0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   40.    0.    0.    0.    0.
0 18      0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 19      0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.  370.    0.  300.  240.  220.  210.    0.
190.  180.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 20      0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.    0.    0.    0.    0.  220.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 21      0.    0.    0.  520.  520.  520.  460.  400.  430.  410.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 22      0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0FORMATO IMPRESION COTAS -- NUMERO    7    FORMATO IMPRESION DESCENSOS -- NUMEROO   7
0COTAS ARCHIVADA EN UNIDAD N  0    DESCENSOS ARCHIVADOS EN UNIDAD   0
0CONTROL DE SALIDA EN TODOS LOS INTERVALOS
0                                                    COLUMN A FILA ANISOTROP. =   1.000000
0                                                                 DELX =   1000.000
0                                                                 DELY =   1500.000
0
```

	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	27.	23.	15.	13.						
0 6	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
1000.	1000.																	
	139.	134.	1000.	1000.	1000.	1000.	1000.	1000.	32.	24.	16.	14.						
0 7	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
154.	139.																	
	129.	120.	114.	1000.	77.	74.	69.	57.	44.	29.	17.	14.						
0 8	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	156.
143.	131.																	
	120.	111.	105.	95.	84.	77.	67.	50.	31.	22.	16.	14.						
0 9	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	137.
131.	123.																	
	114.	106.	101.	94.	84.	77.	64.	37.	21.	13.	13.	13.						
0 10	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	133.
128.	119.																	
	110.	103.	98.	91.	83.	72.	56.	40.	27.	20.	15.	1000.						
0 11	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	159.	153.	143.
132.	120.																	
	110.	101.	95.	88.	76.	64.	53.	44.	33.	23.	1000.	1000.						
0 12	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	193.	189.	183.	172.	160.	148.
135.	121.																	
	110.	100.	93.	84.	70.	58.	50.	44.	34.	1000.	1000.	1000.						
0 13	1000.	1000.	1000.	1000.	1000.	1000.	427.	421.	411.	401.	374.	294.	202.	194.	187.	177.	164.	151.
137.	123.																	
	109.	99.	92.	78.	59.	51.	47.	44.	35.	1000.	1000.	1000.						
0 14	1000.	1000.	1000.	1000.	1000.	451.	441.	430.	419.	408.	389.	368.	270.	197.	191.	182.	170.	156.
140.	123.																	
	109.	100.	90.	70.	55.	51.	47.	43.	1000.	1000.	1000.	1000.						
0 15	1000.	511.	507.	499.	485.	470.	455.	441.	427.	413.	400.	385.	297.	209.	197.	184.	172.	159.
144.	128.																	
	114.	105.	87.	62.	53.	49.	46.	42.	1000.	1000.	1000.	1000.						
0 16	520.	520.	520.	520.	495.	478.	462.	446.	432.	418.	404.	390.	311.	226.	204.	187.	175.	163.
148.	132.																	
	117.	107.	83.	58.	51.	48.	45.	42.	1000.	1000.	1000.	1000.						

```
0 17  1000. 1000. 1000.  520.  501.  484.  467.  450.  436.  422.  408.  393.  313.  230.  207.  188.  176.  165.
154.  142.
       128.  101.   69.   54.   51.   47.   44.   41. 1000. 1000. 1000. 1000.
0 18  1000. 1000. 1000.  520.  507.  494.  480.  464.  447.  431.  419.  392.  287.  215.  201.  187.  178.  167.
158.  151.
       144. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 19  1000. 1000. 1000.  520.  508.  499.  487.  470.  456.  445.  436.  427. 1000.  202.  196.  189.  184. 1000.
154.  153.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 20  1000. 1000. 1000.  520.  512.  503.  488.  474.  461.  451.  443. 1000. 1000. 1000. 1000.  189. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 21  1000. 1000. 1000.  520.  520.  520. 1000.  468.  463.  458. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 22  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0
```

BALANCE GLOBAL PARA TODO EL MODELO --- FINAL INTERVALO 1 PERIODO EXTRACC. 1

```
0                    VOLUMS. ACUMULADOS      L**3                                  CAUDALES PROM. INTERVALO
L**3/T
                     -----------------                                             ----------------------

                          ENT                                                               ENT
                          ---                                                               ---
                      ALMACENAMIENTO =     .00000                                   ALMACENAMIENTO =
.00000
                     NUDOS NIV CONST =     .76005E+08                              NUDOS NIV CONST =
.20809E+06
                               POZOS =     .00000                                            POZOS =
.00000
```

RECARGA = .15147E+08 RECARGA =
41471.
NUDOS EXTERIORES = .20833E+08 NUDOS EXTERIORES =
57038.
0 ENTRADAS = .11199E+09 ENTRADAS =
.30660E+06
0 SAL: SAL:
---- ----
ALMACENAMIENTO = .00000 ALMACENAMIENTO =
.00000
NUDOS NIV CONST = .00000 NUDOS NIV CONST =
.00000
POZOS = .40065E+08 POZOS =
.10969E+06
RECARGA = .00000 RECARGA =
.00000
NUDOS EXTERIORES = .71885E+08 NUDOS EXTERIORES =
.19681E+06
0 SALIDAS = .11195E+09 SALIDAS =
.30650E+06
0 DIFERENC.= 35840. DIFERENC.=
98.125
0 ERROR PORCENTUAL = .03 ERROR PORCENTUAL =
.03

0

RESUMEN TIEMPOS FINAL INTERVALO 1 PERIODO EXTRACC. 1

	SEGUNDOS	MINUTOS	HORAS	DIAS	A¥OS
DURACION INTERVALO	.315576E+08	525960.	8766.00	365.250	1.00000
TIEMPO PERIOD. EXTRAC	.315576E+08	525960.	8766.00	365.250	1.00000

TIEMPO TOTAL SIMULADO	.315576E+08	525960.	8766.00	365.250	1.00000

1

ANEJO IV.: SIMULACIÓN 5.

SIMULACIÓN 5

```
1                    ** MODELO McDONALD-HARBAUGH **   --versi¢n castellana de F.A.B.--
0MODELO MATEMATICO DEL SISTEMA ACUIFERO JAVALAMBRE (CASTELLON)                    REGIMEN PERMANENTE :: Archivos
CAS??P
    1CAPA(S)         22FILAS         32COLUMNAS
   1 PERIODO(S) EXTRAC. SIMULADO(S)
 UNIDAD DE TIEMPO: DIAS
0UNID. I/O:
         ELEMENTO:  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
       UNIDAD I/O: 10 20  0  0  0  0 70 80 90  0  0 99  0  0  0  0  0  0  0  0  0  0  0  0
0BAS1 -- MODELO BASICO,        VERSION 1, 12/08/83 LECT. ENT. UNIDAD No  1
 MATRICES RHS Y BUFF COMPARTEN MEMORIA.
 COTAS INIC. PRESERVADAS
   6394 ELEMENTOS MATRIZ X  USADOS POR  BAS
   6394 ELEMENTOS MATRIZ X DEL TOTAL DE  30000
0BCF1 -- NUDOS CENTRADOS EN LAS CELULAS VERS. 1, 12/08/83 ENTRADAS LEIDAS DE U 10
 REGIMEN PERMANENTE
      CAPA  ACUIFERO TIPO
      ------------------
         1         1
   1409 ELEMENTOS MATRIZ X USADOS POR BCF
   7803 ELEMENTOS MATRIZ X DEL TOTAL DE  30000
0WEL1 -- MODULO POZO , VERSION 1, 12/08/83 LECT. ENT. UNID 20
 MAXIMO DE    57 POZOS
    228 ELEMENTOS MATRIZ X USADOS PARA POZOS
   8031 ELEMENTOS MATRIX X USADOS DE     30000
0RCH1 -- APLICAC. RECARGA, VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 80
 OPCION 1 -- RECARGA CAPA SUPERIOR
    704 ELEMENTOS MATRIZ X USADOS EN RECARGA
   8735 ELEMENTOS MATRIZ X USADOS DE     30000
0GHB1 -- MODULO GHB , VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 70
 MAXIMO DE    37 NUDOS EXTERNOS (dep. potenc.)
 FLUJO INTERCELDAS SE IMPRIME CUANDO ICBCFL NO ES 0
    185 ELEMENTOS MATRIZ X EMPLEADOS EN NUDOS EXTERIORES
```

```
   8920 ELEMENTOS MATRIZ X EMPLEADOS DE  30000
0SIP1 -- MODULO SOLUCION "STRONG IMPLICIT PROCEDURE" , VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 90
 MAXIMO DE  500ITERACIONES PARA CERRAR
  5 PARAMETROS ITERACION
   4821 ELEMENTOS MATRIZ X EMPLEADOS EN SIP
  13741 ELEMENTOS MATRIZ X EMPLEADOS DE  30000
1MODELO MATEMATICO DEL SISTEMA ACUIFERO JAVALAMBRE (CASTELLON)                   REGIMEN PERMANENTE :: Archivos
CAS??P
0

                                        MATRIZ LIMITES PARA CAPA  1 LECTURA EN UNIDAD No  1 CON FORMATO : (32I3)
                              ----------------------------------------------------------------------------------
----------

        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27
28  29  30
       31  32

..................................................................................................................
.............
0  1    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
        1   1
0  2    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
        0   1
0  3    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   1   1
        1   1
0  4    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   1   1
        1   1
0  5    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   1   1
```

		1	1																											
0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0		
0	1	1																												
		1	1																											
0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	1	1		
1	1	1																												
		1	1																											
0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1		
1	1	1																												
		1	1																											
0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1		
1	1	1																												
		1	1																											
0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1		
1	1	1																												
		1	0																											
0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1		
1	1	1																												
		0	0																											
0	12	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
1	1	0																												
		0	0																											
0	13	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
1	1	0																												
		0	0																											
0	14	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
1	0	0																												
		0	0																											
0	15	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
1	0	0																												
		0	0																											
0	16	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
1	0	0																												
		0	0																											

```
0 17    0   0   0  -1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
1   0   0
          0   0
0 18    0   0   0  -1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   0   0   0   0   0   0
0   0   0
          0   0
0 19    0   0   0  -1   1   1   1   1   1   1   1   1   0   1   1   1   1   0   1   1   0   0   0   0   0   0   0
0   0   0
          0   0
0 20    0   0   0  -1   1   1   1   1   1   1   1   1   0   0   0   0   1   0   0   0   0   0   0   0   0   0   0
0   0   0
          0   0
0 21    0   0   0  -1  -1  -1   0   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
          0   0
0 22    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
          0   0
0COTA DEL ACUIFERO FIJADA EN  999.99      EN NUDOS NO ACTIVOS (IBOUND = 0)
0
```

```
                                        COTA INICIAL:     CAPA  1 LECTURA EN UNIDAD     1    EN FORMATO: (32F5.0)
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          1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18
19    20
         21    22    23    24    25    26    27    28    29    30    31    32

.....................................................................................................................
............
0  1     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.   25.   15.
```

0 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	15.	0.	0.	0.	0.	0.	0.
0 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	40.	35.	20.	15.	0.	0.	0.	0.	0.	0.
0 4	0.	0.	0.	0.	0.	0.	0.	0.	40.	35.	20.	15.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	30.	25.	20.	15.	0.	0.	0.	0.	0.	0.
0 5	0.	0.	0.	0.	0.	0.	0.	0.	30.	25.	20.	15.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	30.	25.	20.	15.	0.	0.	0.	0.	0.	0.
0 6	0.	0.	0.	0.	0.	0.	0.	0.	30.	25.	20.	15.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	30.	25.	20.	15.	0.	0.	0.	0.	0.	0.
0 7	160.	140.	0.	0.	0.	0.	0.	0.	30.	25.	20.	15.	0.	0.	0.	0.	0.	0.
190.	180.	160.	140.	120.	0.	75.	65.	55.	50.	30.	25.	20.	15.	0.	0.	0.	0.	200.
0 8	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
190.	180.	160.	140.	120.	100.	75.	65.	55.	50.	30.	25.	20.	15.	0.	0.	0.	0.	200.
0 9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
190.	180.	160.	140.	120.	100.	75.	65.	55.	50.	30.	25.	20.	15.	0.	0.	0.	0.	200.
0 10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
190.	180.	160.	140.	120.	100.	75.	65.	55.	40.	30.	25.	20.	0.	0.	0.	0.	250.	210.	200.
0 11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
190.	180.	160.	140.	120.	100.	75.	65.	55.	40.	30.	25.	0.	0.	350.	300.	240.	220.	210.	200.
0 12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
190.	180.	160.	140.	120.	100.	75.	65.	55.	40.	30.	0.	0.	0.	350.	300.	240.	220.	210.	200.
0 13	0.	0.	0.	0.	0.	0.	460.	450.	430.	410.	390.	370.	350.	300.	240.	220.	210.	200.
190.	180.																	

```
        160.  140.  120.  100.   75.   65.   55.   40.   30.    0.    0.    0.
0 14      0.    0.    0.    0.    0.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   40.    0.    0.    0.    0.
0 15      0.  600.  500.  500.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   40.    0.    0.    0.    0.
0 16    520.  520.  520.  520.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   40.    0.    0.    0.    0.
0 17      0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.  140.  120.  100.   75.   65.   55.   40.    0.    0.    0.    0.
0 18      0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
        160.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 19      0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.  370.    0.  300.  240.  220.  210.    0.
190.  180.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 20      0.    0.    0.  520.  480.  470.  460.  450.  430.  410.  390.    0.    0.    0.    0.  220.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 21      0.    0.    0.  520.  520.  520.  460.  400.  430.  410.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 22      0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0FORMATO IMPRESION COTAS -- NUMERO    7    FORMATO IMPRESION DESCENSOS -- NUMEROO   7
0COTAS ARCHIVADA EN UNIDAD N  0    DESCENSOS ARCHIVADOS EN UNIDAD   0
0CONTROL DE SALIDA EN TODOS LOS INTERVALOS
0                                                  COLUMN A FILA ANISOTROP. =   1.000000
0                                                                  DELX =   1000.000
0                                                                  DELY =   1500.000
0
```

HYD. COND. DIR. FILAS: CAPA 1 LECTURA EN UNIDAD 10 EN FORMATO: (32F5.2)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30	31	32								
0 1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10	1.13								
0 2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.13								
0 3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	1.13								
0 4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	7.36								
0 5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	7.36								
0 6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.92	1.63	.00	.00	.00	.00	.00	.00	2.41	2.41	2.41	8.74								
0 7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76	.78
	.92	1.63	3.15	.00	6.21	6.21	4.46	1.03	2.41	2.41	2.41	8.74								
0 8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.71	.87	.90

	.92	1.63	3.15	2.90	6.21	6.21	6.21	1.70	2.41	3.17	2.41	9.43						
0 9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10
1.13	1.15																	
	1.15	2.05	3.96	2.90	6.21	6.21	6.21	5.17	2.41	3.24	7.87	9.43						
0 10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10
1.13	1.15																	
	1.15	2.05	3.96	4.14	4.26	6.21	6.21	6.21	2.41	8.05	5.57	.00						
0 11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.03	1.13	1.10
1.06	1.10																	
	1.15	1.47	3.52	4.14	4.26	4.26	6.21	6.21	3.45	8.05	.00	.00						
0 12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.91	3.38	4.00	1.54	1.59	1.56
1.52	1.59																	
	1.66	2.05	3.15	4.14	4.26	4.26	6.21	6.21	2.18	.00	.00	.00						
0 13	.00	.00	.00	.00	.00	.00	2.23	2.21	3.29	3.27	2.14	1.22	3.66	3.22	3.75	1.54	1.59	1.56
1.59	1.75																	
	1.66	4.30	3.77	3.73	3.52	14.28	14.28	14.28	2.18	.00	.00	.00						
0 14	.00	.00	.00	.00	.00	1.72	2.23	2.21	3.29	3.27	2.14	3.43	3.04	3.38	3.38	1.54	1.59	1.01
1.03	1.13																	
	2.71	2.76	3.47	3.73	8.10	9.66	9.66	9.66	.00	.00	.00	.00						
0 15	.00	.62	1.38	1.38	2.39	2.41	2.46	2.48	3.01	3.11	3.47	3.47	2.60	2.60	1.59	1.31	1.91	1.59
1.61	1.52																	
	1.61	2.35	6.21	4.46	10.23	9.66	9.66	9.66	.00	.00	.00	.00						
0 16	1.38	1.38	1.38	1.38	3.01	3.08	2.85	2.92	3.01	3.11	3.47	3.47	2.60	1.54	.78	1.10	1.59	1.31
1.33	1.26																	
	2.32	2.35	6.21	4.46	10.23	9.66	9.66	9.66	.00	.00	.00	.00						
0 17	.00	.00	.00	1.72	3.38	3.36	3.36	2.92	3.01	3.11	3.22	3.13	2.60	1.82	.78	1.10	1.59	1.89
1.91	1.82																	
	2.21	3.56	6.21	10.23	10.23	9.66	9.66	9.66	.00	.00	.00	.00						
0 18	.00	.00	.00	1.72	3.38	2.58	2.69	3.89	2.92	3.89	2.41	2.76	2.02	1.82	.78	1.10	2.28	1.45
2.21	2.74																	
	2.53	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
0 19	.00	.00	.00	1.72	2.23	2.60	3.36	2.81	2.76	2.85	2.94	2.85	.00	1.54	.78	1.10	2.28	.00
3.11	3.45																	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						

```
0 20     .00    .00    .00   1.72   2.23   2.28   2.64   3.17   2.76   2.85   2.94    .00    .00    .00    .00   1.56    .00    .00
.00    .00
         .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
0 21     .00    .00    .00   1.72   3.24   3.24    .00   4.32   2.92   3.89    .00    .00    .00    .00    .00    .00    .00    .00
.00    .00
         .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
0 22     .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
.00    .00
         .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
0
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FONDO : CAPA 1 LECTURA EN UNIDAD 10 EN FORMATO: (32F5.0)

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          1      2      3      4      5      6      7      8      9     10     11     12     13     14     15     16     17     18
19     20
            21     22     23     24     25     26     27     28     29     30     31     32

.....................................................................................................................................
.............
0  1      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -200. -100.
0  2      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -100.
0  3      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0. -200.     0. -100. -100.
0  4      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0. -200.     0. -100. -100.
```

```
0  5      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
                0.     0.     0.     0.     0.     0.     0.     0.  -200.     0.  -100.  -100.
0  6      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
               -500.  -500.     0.     0.     0.     0.     0.     0.     0.     0.  -100.  -100.
0  7      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
600.  -600.
               -500.  -500.  -500.     0.  -100.  -100.  -200.  -200.  -150.     0.  -100.  -100.
0  8      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.  -
500.  -500.
               -500.  -500.  -500.  -200.  -100.  -100.     0.  -100.  -100.  -100.  -100.  -100.
0  9      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.  -650.  -
650.  -650.
               -650.  -650.  -650.  -200.  -100.  -100.     0.     0.  -150.  -150.  -100.  -100.
0 10      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.  -650.  -
650.  -650.
               -650.  -650.  -650.  -200.  -200.     0.     0.     0.  -150.  -100.  -100.     0.
0 11      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.  -650.  -650.  -650.  -
500.  -500.
               -650.  -650.  -500.  -200.  -200.  -200.  -200.  -200.  -200.  -200.     0.     0.
0 12      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.  -400.  -500.  -500.  -650.  -650.  -650.  -
500.  -550.
               -650.  -650.  -500.  -200.  -200.  -200.  -200.  -200.  -350.     0.     0.     0.
0 13      0.     0.     0.     0.     0.     0.   100.   100.   100.   100.   200.   175.  -400.  -550.  -550.  -650.  -650.  -650.  -
650.  -600.
               -650.  -650.  -500.  -150.  -200.  -350.  -350.  -350.  -520.     0.     0.     0.
0 14      0.     0.     0.     0.     0.   200.   100.   100.   100.   100.   200.   150.   250.  -500.  -650.  -650.  -650.  -650.  -
650.  -600.
               -650.  -650.  -550.  -150.  -400.  -350.  -350.  -350.     0.     0.     0.     0.
0 15      0.  -250.  -250.  -250.  -250.  -250.  -250.  -250.  -150.  -150.  -100.  -100.   250.  -400.  -650.  -650.  -650.  -450.  -
450.  -500.
               -650.  -650.     0.  -150.  -400.  -400.  -400.  -525.     0.     0.     0.     0.
0 16   -250.  -250.  -250.  -250.  -100.  -100.  -150.  -150.  -150.  -150.  -100.  -100.   250.  -300.  -650.  -650.  -650.  -450.  -
450.  -500.
```

```
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    26    CAPA  1  FILA  19   COL  17 CAUDAL  -903.6970
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    27    CAPA  1  FILA  18   COL  18 CAUDAL  -1716.990
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    28    CAPA  1  FILA  19   COL  19 CAUDAL  -907.9044
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    29    CAPA  1  FILA   8   COL  18 CAUDAL   20418.63
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    30    CAPA  1  FILA   7   COL  19 CAUDAL   16679.83
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    31    CAPA  1  FILA  16   COL  28 CAUDAL  -24150.36
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    32    CAPA  1  FILA  17   COL  23 CAUDAL   707.5826
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    33    CAPA  1  FILA   6   COL  21 CAUDAL   9391.295
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    34    CAPA  1  FILA   6   COL  22 CAUDAL   3498.609
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    35    CAPA  1  FILA   1   COL  32 CAUDAL   16.34060
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    36    CAPA  1  FILA  18   COL  13 CAUDAL  -5404.853
ONUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    37    CAPA  1  FILA   7   COL  20 CAUDAL  -1100.864
1                      COTA  EN CAPA  1 AL FINAL INTERVALO   1 PERIODO EXTRACC.  1
          ----------------------------------------------------------------------

          1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18
19    20
            21    22    23    24    25    26    27    28    29    30    31    32

.....................................................................................................................
............
0  1  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   19.   19.
0  2  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   19.
0  3  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   25.   23.   19.   18.
0  4  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   26.   22.   16.   14.
0  5  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
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    .8831     (  1, 14, 12)   .3518     (  1,  7, 26)   .4239     (  1, 13,  8)   .3607     (  1, 15, 14)  -.2952
(  1, 14, 12)
    .2148     (  1, 13, 12)  -.6018E-01 (  1, 14, 12)   .2608E-01 (  1, 19, 17)
0
0INDIC. IMPRESION COTAS/DESC.= 1     INDICADOR IMPRIMIR BALANCE = 1     INDICADOR FLUJO INTERCELDAS = 1
0INDICADORES SALIDA POR CAPA:
          COTA     DESCENSO  COTA  DESCENSO
  CAPA  IMPRIMIR   IMPRIMIR SALVA   SALVA
 ----------------------------------------
    1       1         0       0       0
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     1    CAPA  1  FILA  17   COL  24 CAUDAL  -1020.247
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     2    CAPA  1  FILA   2   COL  32 CAUDAL   69.40744
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     3    CAPA  1  FILA   3   COL  32 CAUDAL   319.1294
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     4    CAPA  1  FILA   4   COL  32 CAUDAL   1686.097
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     5    CAPA  1  FILA   5   COL  32 CAUDAL   695.1330
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     6    CAPA  1  FILA   6   COL  32 CAUDAL  -1025.127
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     7    CAPA  1  FILA   7   COL  32 CAUDAL  -1452.111
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     8    CAPA  1  FILA   8   COL  32 CAUDAL  -1193.438
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     9    CAPA  1  FILA   9   COL  32 CAUDAL  -2117.510
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    10    CAPA  1  FILA  10   COL  31 CAUDAL  -1590.910
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    11    CAPA  1  FILA  11   COL  30 CAUDAL  -12934.34
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    12    CAPA  1  FILA  12   COL  29 CAUDAL  -15913.98
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    13    CAPA  1  FILA  13   COL  29 CAUDAL  -22686.88
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    14    CAPA  1  FILA  14   COL  28 CAUDAL  -23299.17
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    15    CAPA  1  FILA  15   COL  28 CAUDAL  -23692.03
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    16    CAPA  1  FILA  17   COL  28 CAUDAL  -23840.23
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    17    CAPA  1  FILA  17   COL  27 CAUDAL  -878.3342
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    18    CAPA  1  FILA  17   COL  26 CAUDAL  -1605.793
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    19    CAPA  1  FILA  17   COL  25 CAUDAL  -416.0388
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    20    CAPA  1  FILA  17   COL  22 CAUDAL   2604.083
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    21    CAPA  1  FILA  20   COL  11 CAUDAL  -14349.71
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    22    CAPA  1  FILA  19   COL  12 CAUDAL  -14176.82
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    23    CAPA  1  FILA  19   COL  14 CAUDAL  -432.2084
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    24    CAPA  1  FILA  19   COL  15 CAUDAL   730.1156
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    25    CAPA  1  FILA  20   COL  16 CAUDAL   221.7363
```

```
                1       17      22      105.0           677.0           20
                1       20      11      370.0           197.0           21
                1       19      12      350.0           185.0           22
                1       19      14      200.0           188.0           23
                1       19      15      200.0           206.0           24
                1       20      16      190.0           213.0           25
                1       19      17      180.0           221.0           26
                1       18      18      160.0           229.0           27
                1       19      19      150.0           206.0           28
                1        8      18      200.0           468.0           29
                1        7      19      190.0           460.0           30
                1       16      28      15.00           900.0           31
                1       17      23      70.00           677.0           32
                1        6      21      160.0           445.0           33
                1        6      22      140.0           576.0           34
                1        1      32      19.00           290.0           35
                1       18      13      260.0           200.0           36
                1        7      20      135.0           275.0           37
0"SEED" PROM. =   .00255272
 "SEED" MIN.  =   .00083052
0
    5 PARAMETROS ITERACION CALCULADOS DEL  "SEED" PROM.:

            .0000000E+00   .7752235E+00   .9494755E+00   .9886433E+00   .9974473E+00
0
    18 ITERACIONES INTERVALO N.   1 PERIODO EXTRACC.  1
0CAMBIO POT. MAX. PARA CADA ITERACION  :
0 CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO
POT.  CAPA,FIL,COL
 ------------------------------------------------------------------------------------------------------------------
-----------------
   -89.11     (  1, 15,  2)  -30.91     (  1, 12, 14)  -26.39     (  1, 13, 15)  -34.75     (  1, 13, 13)   27.03
(  1, 14, 12)
   -17.87     (  1, 13, 12)   5.058     (  1, 14, 12)   2.436     (  1, 21, 10)   1.783     (  1, 13,  9)  -1.747
(  1, 14, 12)
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	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
0 21	.000	.000	.000	.000	.000	.000	.000	5.867E-05	7.800E-05	1.933E-05
.000										
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000										
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
0 22	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
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	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000										
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
0										

37 NUDOS EXTERIORES

0

CAPA	FIL	COL	COTA	CONDUCTANCIA	EXTER. N.
1	17	24	50.00	275.0	1
1	2	32	19.00	290.0	2
1	3	32	19.00	265.0	3
1	4	32	20.00	265.0	4
1	5	32	15.00	300.0	5
1	6	32	11.00	360.0	6
1	7	32	11.00	450.0	7
1	8	32	11.00	420.0	8
1	9	32	8.000	450.0	9
1	10	31	12.00	525.0	10
1	11	30	8.000	850.0	11
1	12	29	14.00	800.0	12
1	13	29	10.00	920.0	13
1	14	28	17.00	900.0	14
1	15	28	16.00	900.0	15
1	17	28	15.00	900.0	16
1	17	27	43.00	730.0	17
1	17	26	45.00	710.0	18
1	17	25	50.00	690.0	19

```
        1.267E-05  2.533E-05   .000       .000       .000       1.667E-05  1.533E-04   .000       .000       .000
0 14     .000       .000       .000       .000       .000        .000       .000       .000       .000      9.333E-06
7.800E-05
        6.800E-05  4.867E-05   .000      3.800E-05   .000        .000       .000       .000       .000       .000
.000
        1.267E-05  1.013E-04  1.193E-04  5.067E-05  1.667E-05  1.367E-04   .000       .000       .000       .000
0 15     .000       .000       .000       .000       .000        .000       .000       .000       .000       .000
.000
         .000      6.800E-05   .000       .000       .000       2.533E-05   .000       .000      3.800E-05  1.267E-05
3.067E-03
        3.111E-03  1.140E-04  1.707E-04  1.533E-04  1.707E-04  1.707E-04   .000       .000       .000       .000
0 16     .000       .000       .000       .000       .000        .000       .000       .000       .000      1.933E-05
.000
        1.933E-05  9.733E-05   .000       .000      1.267E-05  5.067E-05   .000       .000      1.267E-05  3.800E-05
3.067E-03
        1.273E-04  1.013E-04  1.020E-04  1.533E-04  1.707E-04  1.707E-04   .000       .000       .000       .000
0 17     .000       .000       .000      4.867E-05   .000        .000       .000       .000       .000      8.800E-05
2.933E-05
         .000      7.800E-05  5.867E-05   .000       .000        .000       .000       .000      2.533E-05  6.333E-05
1.267E-05
        1.140E-04  3.800E-05  1.707E-04  1.707E-04  1.707E-04  1.707E-04   .000       .000       .000       .000
0 18     .000       .000       .000       .000      7.800E-05  5.867E-05   .000       .000       .000      7.800E-05
9.733E-05
        6.800E-05  9.733E-05  6.800E-05   .000      7.600E-05  8.867E-05  1.013E-04  8.867E-05  6.333E-05  3.800E-05
.000
        2.600E-05   .000       .000       .000       .000        .000       .000       .000       .000       .000
0 19     .000       .000       .000       .000       .000        .000       .000       .000       .000      3.867E-05
8.800E-05
        4.867E-05  1.667E-05   .000      2.533E-05  2.533E-05  2.533E-05   .000      3.800E-05  1.267E-05  1.293E-04
.000
         .000       .000       .000       .000       .000        .000       .000       .000       .000       .000
0 20     .000       .000       .000       .000       .000        .000       .000       .000       .000       .000
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         .000       .000       .000       .000       .000        .000       .000       .000       .000       .000
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        .000        .000        .000       4.267E-05  4.733E-05   .000       6.800E-05  8.533E-05   .000       1.707E-04
0  7    .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
.000
        .000        .000        .000        .000       .000       .000        .000      5.067E-05  1.013E-04  1.140E-04
2.533E-05
       2.533E-05    .000       5.067E-05  1.367E-04  6.800E-05  3.400E-05  8.533E-05   3.400E-05  5.067E-05  1.707E-04
0  8    .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
.000
        .000        .000        .000        .000       .000       .000       3.800E-05  1.273E-04  1.273E-04  1.267E-05
.000
        .000       2.533E-05  1.193E-04  1.193E-04  1.020E-04  3.400E-05  1.367E-04   3.400E-05  5.067E-05  1.707E-04
0  9    .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
.000
        .000        .000        .000        .000       .000       .000       1.013E-04  7.600E-05  6.333E-05   .000
.000
        .000       3.800E-05  3.400E-05  1.367E-04  1.193E-04  3.400E-05   .000        .000       1.707E-04  1.707E-04
0 10    .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
.000
        .000        .000        .000        .000       .000       .000       3.800E-05   .000       .000        .000
.000
        .000       3.067E-04  5.067E-05  3.400E-05  3.400E-05  1.667E-05   .000       1.707E-04  1.707E-04   .000
0 11    .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
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        .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
.000
        .000       3.067E-03  8.533E-05  3.400E-05  1.667E-05   .000       1.707E-04  1.707E-04   .000        .000
0 12    .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
.000
        .000       1.933E-05  6.800E-05  8.867E-05   .000       .000        .000       1.273E-04  6.333E-05   .000
2.533E-05
       1.267E-05   3.067E-03   .000        .000       .000       .000       1.707E-04   .000       .000        .000
0 13    .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
6.800E-05
       2.933E-05   1.933E-05   .000       1.140E-04   .000       .000        .000       2.533E-05  1.267E-05   .000
1.267E-05
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	12	13	14	15	16	17	18	19	20	21	22
	23	24	25	26	27	28	29	30	31	32	
0 1	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
0 2	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
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0 3	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	6.800E-05	6.800E-05	1.533E-04	.000	
0 4	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	1.020E-04	1.193E-04	.000	1.707E-04	
0 5	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	3.800E-05	.000	.000	1.193E-04	1.533E-04	.000	1.707E-04	
0 6	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	5.067E-05	8.867E-05

1	18	12	-8471.0	31
1	4	32	-2739.0	32
1	14	23	-630.00	33
1	10	20	-1660.0	34
1	14	15	-54.000	35
1	19	12	-24.000	36
1	19	17	-100.00	37
1	17	20	-261.00	38
1	17	17	-153.00	39
1	12	18	-137.00	40
1	13	29	-4438.0	41
1	15	28	-178.00	42
1	10	31	-1972.0	43
1	16	26	-1479.0	44
1	16	26	-1479.0	45
1	16	26	-411.00	46
1	17	27	-958.00	47
1	11	30	-559.00	48
1	11	30	-418.00	49
1	10	31	-1746.0	50
1	8	31	-835.00	51
1	17	22	-6388.0	52
1	17	23	-6388.0	53
1	16	24	-6388.0	54
1	15	24	-6388.0	55
1	14	24	-6388.0	56
1	13	25	-6388.0	57

0

RECARGA LECTURA EN UNIDAD 80 EN FORMATO: (32F6.0)

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1 2 3 4 5 6 7 8 9 10

11

HYD. COND. DIR. FILAS: CAPA 1 LECTURA EN UNIDAD 10 EN FORMATO: (32F5.2)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30	31	32								
0 1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10	1.13								
0 2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.13								
0 3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	1.13								
0 4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	7.36								
0 5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	7.36								
0 6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.92	1.63	.00	.00	.00	.00	.00	.00	2.41	2.41	2.41	8.74								
0 7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76	.78
	.92	1.63	3.15	.00	6.21	6.21	4.46	1.03	2.41	2.41	2.41	8.74								
0 8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.71	.87	.90

```
        .92  1.63  3.15  2.90  6.21  6.21  6.21  1.70  2.41  3.17  2.41  9.43
0  9    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00  1.10
1.13  1.15
       1.15  2.05  3.96  2.90  6.21  6.21  6.21  5.17  2.41  3.24  7.87  9.43
0 10    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00  1.10
1.13  1.15
       1.15  2.05  3.96  4.14  4.26  6.21  6.21  6.21  2.41  8.05  5.57   .00
0 11    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00  1.03  1.13  1.10
1.06  1.10
       1.15  1.47  3.52  4.14  4.26  4.26  6.21  6.21  3.45  8.05   .00   .00
0 12    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00  3.91  3.38  4.00  1.54  1.59  1.56
1.52  1.59
       1.66  2.05  3.15  4.14  4.26  4.26  6.21  6.21  2.18   .00   .00   .00
0 13    .00   .00   .00   .00   .00   .00  2.23  2.21  3.29  3.27  2.14  1.22  3.66  3.22  3.75  1.54  1.59  1.56
1.59  1.75
       1.66  4.30  3.77  3.73  3.52 14.28 14.28 14.28  2.18   .00   .00   .00
0 14    .00   .00   .00   .00   .00  1.72  2.23  2.21  3.29  3.27  2.14  3.43  3.04  3.38  3.38  1.54  1.59  1.01
1.03  1.13
       2.71  2.76  3.47  3.73  8.10  9.66  9.66  9.66   .00   .00   .00   .00
0 15    .00   .62  1.38  1.38  2.39  2.41  2.46  2.48  3.01  3.11  3.47  3.47  2.60  2.60  1.59  1.31  1.91  1.59
1.61  1.52
       1.61  2.35  6.21  4.46 10.23  9.66  9.66  9.66   .00   .00   .00   .00
0 16   1.38  1.38  1.38  1.38  3.01  3.08  2.85  2.92  3.01  3.11  3.47  3.47  2.60  1.54   .78  1.10  1.59  1.31
1.33  1.26
       2.32  2.35  6.21  4.46 10.23  9.66  9.66  9.66   .00   .00   .00   .00
0 17    .00   .00   .00  1.72  3.38  3.36  3.36  2.92  3.01  3.11  3.22  3.13  2.60  1.82   .78  1.10  1.59  1.89
1.91  1.82
       2.21  3.56  6.21 10.23 10.23  9.66  9.66  9.66   .00   .00   .00   .00
0 18    .00   .00   .00  1.72  3.38  2.58  2.69  3.89  2.92  3.89  2.41  2.76  2.02  1.82   .78  1.10  2.28  1.45
2.21  2.74
       2.53   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
0 19    .00   .00   .00  1.72  2.23  2.60  3.36  2.81  2.76  2.85  2.94  2.85   .00  1.54   .78  1.10  2.28   .00
3.11  3.45
        .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
```

```
0 20     .00    .00    .00   1.72   2.23   2.28   2.64   3.17   2.76   2.85   2.94    .00    .00    .00    .00   1.56    .00    .00
.00    .00
         .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
0 21     .00    .00    .00   1.72   3.24   3.24    .00   4.32   2.92   3.89    .00    .00    .00    .00    .00    .00    .00    .00
.00    .00
         .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
0 22     .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
.00    .00
         .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
0
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FONDO : CAPA 1 LECTURA EN UNIDAD 10 EN FORMATO: (32F5.0)

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          1      2      3      4      5      6      7      8      9     10     11     12     13     14     15     16     17     18
19     20
          21     22     23     24     25     26     27     28     29     30     31     32

.....................................................................................................................................
............
0  1      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -200. -100.
0  2      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -100.
0  3      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0. -200.     0. -100. -100.
0  4      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0. -200.     0. -100. -100.
```

```
0  5      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0. -200.     0. -100. -100.
0  6      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
         -500. -500.     0.     0.     0.     0.     0.     0.     0.     0. -100. -100.
0  7      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -
600. -600.
         -500. -500. -500.     0. -100. -100. -200. -200. -150.     0. -100. -100.
0  8      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -650. -
500. -500.
         -500. -500. -500. -200. -100. -100.     0. -100. -100. -100. -100. -100.
0  9      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -650. -
650. -650.
         -650. -650. -650. -200. -100. -100.     0.     0. -150. -150. -100. -100.
0 10      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -650. -
650. -650.
         -650. -650. -650. -200. -200.     0.     0.     0. -150. -100. -100.     0.
0 11      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -650. -650. -650. -
500. -500.
         -650. -650. -500. -200. -200. -200. -200. -200. -200. -200.     0.     0.
0 12      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -400. -500. -500. -650. -650. -650. -
500. -550.
         -650. -650. -500. -200. -200. -200. -200. -200. -350.     0.     0.     0.
0 13      0.     0.     0.     0.     0.     0.   100.   100.   100.   100.   200.   175. -400. -550. -550. -650. -650. -650. -
650. -600.
         -650. -650. -500. -150. -200. -350. -350. -350. -520.     0.     0.     0.
0 14      0.     0.     0.     0.     0.   200.   100.   100.   100.   100.   200.   150.   250. -500. -650. -650. -650. -650. -
650. -600.
         -650. -650. -550. -150. -400. -350. -350. -350.     0.     0.     0.     0.
0 15      0. -250. -250. -250. -250. -250. -250. -250. -150. -150. -100. -100.   250. -400. -650. -650. -650. -450. -
450. -500.
         -650. -650.     0. -150. -400. -400. -400. -525.     0.     0.     0.     0.
0 16   -250. -250. -250. -250. -100. -100. -150. -150. -150. -150. -100. -100.   250. -300. -650. -650. -650. -450. -
450. -500.
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      -650. -650.    0. -150. -400. -400. -525. -525.    0.    0.    0.    0.
0 17     0.    0.    0. -100.  100.  100.  100. -150. -150. -150. -150. -150.  250. -200. -650. -650. -650. -450. -
450. -500.
      -250.    0.    0. -400. -400. -400. -525. -525.    0.    0.    0.    0.
0 18     0.    0.    0. -100.  100.  200.  200.  350.  350.  300.  100.  300.  250. -200. -650. -650. -650. -650. -
650. -200.
      -200.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 19     0.    0.    0. -100. -300. -200.  100.  200. -200. -200. -200. -200.    0. -300. -650. -650. -650.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 20     0.    0.    0. -100. -300. -300. -200. -100. -200. -200. -200.    0.    0.    0.    0. -650.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 21     0.    0.    0. -100. -100. -100.  300.  300.  350.  350.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 22     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0
```

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0
                                        SOLUCION POR "STRONGLY IMPLICIT PROCEDURE"
                                        ------------------------------------------
                                    ITERACIONES MAXIMAS PARA CERRAR      =      500
                                              PARAMETRO ACELERADOR       =    1.0000
                                      CRITERIO DE CIERRE EN POTENCIAL    =    .50000E-01
                                      INTERV. IMPRIMIR CAMBIO POTENCIAL  =       10
0                                     CALCULA PARAM. ITERACION DEL WSEED CALCULADO POR EL MODELO
1                                    PERIODO EXTRAC. N    1, DURACION   365.2500
                                     ---------------------------------------------

                                     NUMERO DE INTERVALOS =      1

                                      MULTIPLICADOR INTERV.      1.000
```

0 57 POZOS

DURACION INTERVALO UNO = 365.2500

CAPA	FILA	COL	CAUDAL	POZO No.
1	19	12	-24.000	1
1	14	10	-432.00	2
1	12	17	-216.00	3
1	11	20	-4.0000	4
1	11	20	-315.00	5
1	17	21	-767.00	6
1	17	21	-10.000	7
1	12	17	-68.000	8
1	13	17	-360.00	9
1	11	20	-252.00	10
1	11	21	-30.000	11
1	7	23	-153.00	12
1	7	23	-411.00	13
1	8	29	-255.00	14
1	8	29	-3353.0	15
1	9	20	-1095.0	16
1	13	25	-1972.0	17
1	18	7	-27.000	18
1	18	7	-56.000	19
1	12	20	-821.00	20
1	9	29	-1969.0	21
1	9	30	-6784.0	22
1	9	30	-6146.0	23
1	9	29	-1917.0	24
1	9	28	-2272.0	25
1	9	28	-4680.0	26
1	10	28	-1917.0	27
1	10	27	-3434.0	28
1	11	31	-1.0000	29
1	5	32	-2922.0	30

```
      -650. -650.    0. -150. -400. -400. -525. -525.    0.    0.    0.    0.
0 17     0.    0.    0. -100.  100.  100.  100. -150. -150. -150. -150. -150.  250. -200. -650. -650. -650. -450. -
450. -500.
      -250.    0.    0. -400. -400. -400. -525. -525.    0.    0.    0.    0.
0 18     0.    0.    0. -100.  100.  200.  200.  350.  350.  300.  100.  300.  250. -200. -650. -650. -650. -650. -
650. -200.
      -200.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 19     0.    0.    0. -100. -300. -200.  100.  200. -200. -200. -200. -200.    0. -300. -650. -650. -650.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 20     0.    0.    0. -100. -300. -300. -200. -100. -200. -200. -200.    0.    0.    0.    0. -650.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 21     0.    0.    0. -100. -100. -100.  300.  300.  350.  350.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 22     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0
```

```
0
                                        SOLUCION POR "STRONGLY IMPLICIT PROCEDURE"
                                        ------------------------------------------
                                    ITERACIONES MAXIMAS PARA CERRAR      =       500
                                                PARAMETRO ACELERADOR     =     1.0000
                                      CRITERIO DE CIERRE EN POTENCIAL    =     .50000E-01
                                      INTERV. IMPRIMIR CAMBIO POTENCIAL  =       10
0                                     CALCULA PARAM. ITERACION DEL WSEED CALCULADO POR EL MODELO
1                                    PERIODO EXTRAC. N    1, DURACION    365.2500
                                     ---------------------------------------------

                                     NUMERO DE INTERVALOS =      1

                                      MULTIPLICADOR INTERV.      1.000
```

0 57 POZOS

DURACION INTERVALO UNO = 365.2500

CAPA	FILA	COL	CAUDAL	POZO No.
1	19	12	-24.000	1
1	14	10	-432.00	2
1	12	17	-216.00	3
1	11	20	-4.0000	4
1	11	20	-315.00	5
1	17	21	-767.00	6
1	17	21	-10.000	7
1	12	17	-68.000	8
1	13	17	-360.00	9
1	11	20	-252.00	10
1	11	21	-30.000	11
1	7	23	-153.00	12
1	7	23	-411.00	13
1	8	29	-2181.0	14
1	9	20	-1095.0	15
1	13	25	-1972.0	16
1	18	7	-27.000	17
1	18	7	-56.000	18
1	12	20	-821.00	19
1	9	30	-2182.0	20
1	9	29	-2182.0	21
1	9	28	-2182.0	22
1	10	28	-2182.0	23
1	10	27	-2182.0	24
1	11	31	-1.0000	25
1	5	32	-2922.0	26
1	18	12	-8471.0	27
1	4	32	-2739.0	28
1	14	23	-630.00	29
1	10	20	-1660.0	30

1	14	15	-54.000	31
1	19	12	-24.000	32
1	19	17	-100.00	33
1	17	20	-261.00	34
1	17	17	-153.00	35
1	12	18	-137.00	36
1	13	29	-4438.0	37
1	15	28	-178.00	38
1	10	31	-1972.0	39
1	16	26	-1479.0	40
1	16	26	-1479.0	41
1	16	26	-411.00	42
1	17	27	-958.00	43
1	11	30	-559.00	44
1	11	30	-418.00	45
1	10	31	-1746.0	46
1	8	31	-835.00	47
1	13	25	-2182.0	48
1	9	26	-2182.0	49
1	10	29	-2182.0	50
1	11	27	-2182.0	51
1	11	28	-2182.0	52
1	12	25	-2182.0	53
1	12	26	-2182.0	54
1	12	27	-2182.0	55
1	12	28	-2182.0	56
1	12	28	-2182.0	57

0

RECARGA LECTURA EN UNIDAD 80 EN FORMATO: (32F6.0)

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1 2 3 4 5 6 7 8 9 10

11

	12	13	14	15	16	17	18	19	20	21	22
	23	24	25	26	27	28	29	30	31	32	
0 1	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
0 2	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
0 3	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	6.800E-05	6.800E-05	1.533E-04	.000	
0 4	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	1.020E-04	1.193E-04	.000	1.707E-04	
0 5	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	3.800E-05	.000	.000	1.193E-04	1.533E-04	.000	1.707E-04	
0 6	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	5.067E-05	8.867E-05

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        .000        .000        .000       4.267E-05  4.733E-05   .000       6.800E-05  8.533E-05   .000       1.707E-04
0  7    .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
.000
        .000        .000        .000        .000       .000       .000        .000      5.067E-05  1.013E-04  1.140E-04
2.533E-05
       2.533E-05    .000       5.067E-05  1.367E-04  6.800E-05  3.400E-05  8.533E-05  3.400E-05  5.067E-05  1.707E-04
0  8    .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
.000
        .000        .000        .000        .000       .000       .000       3.800E-05  1.273E-04  1.273E-04  1.267E-05
.000
        .000       2.533E-05  1.193E-04  1.193E-04  1.020E-04  3.400E-05  1.367E-04  3.400E-05  5.067E-05  1.707E-04
0  9    .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
.000
        .000        .000        .000        .000       .000       .000       1.013E-04  7.600E-05  6.333E-05   .000
.000
        .000       3.800E-05  3.400E-05  1.367E-04  1.193E-04  3.400E-05   .000        .000       1.707E-04  1.707E-04
0 10    .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
.000
        .000        .000        .000        .000       .000       .000       3.800E-05   .000       .000        .000
.000
        .000       3.067E-04  5.067E-05  3.400E-05  3.400E-05  1.667E-05   .000       1.707E-04  1.707E-04   .000
0 11    .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
.000
        .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
.000
        .000       3.067E-03  8.533E-05  3.400E-05  1.667E-05   .000       1.707E-04  1.707E-04   .000        .000
0 12    .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
.000
        .000       1.933E-05  6.800E-05  8.867E-05   .000       .000        .000       1.273E-04  6.333E-05   .000
2.533E-05
       1.267E-05   3.067E-03   .000        .000       .000       .000       1.707E-04   .000       .000        .000
0 13    .000        .000        .000        .000       .000       .000        .000       .000       .000        .000
6.800E-05
       2.933E-05   1.933E-05   .000       1.140E-04   .000       .000        .000       2.533E-05  1.267E-05   .000
1.267E-05
```

```
        1.267E-05  2.533E-05   .000       .000       .000       1.667E-05  1.533E-04  .000       .000       .000
0 14     .000       .000       .000       .000       .000       .000       .000       .000       .000       9.333E-06
7.800E-05
        6.800E-05  4.867E-05   .000       3.800E-05  .000       .000       .000       .000       .000       .000
.000
        1.267E-05  1.013E-04   1.193E-04  5.067E-05  1.667E-05  1.367E-04  .000       .000       .000       .000
0 15     .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
.000
         .000       6.800E-05  .000       .000       .000       2.533E-05  .000       .000       3.800E-05  1.267E-05
3.067E-03
        3.111E-03  1.140E-04   1.707E-04  1.533E-04  1.707E-04  1.707E-04  .000       .000       .000       .000
0 16     .000       .000       .000       .000       .000       .000       .000       .000       .000       1.933E-05
.000
        1.933E-05  9.733E-05   .000       .000       1.267E-05  5.067E-05  .000       .000       1.267E-05  3.800E-05
3.067E-03
        1.273E-04  1.013E-04   1.020E-04  1.533E-04  1.707E-04  1.707E-04  .000       .000       .000       .000
0 17     .000       .000       .000       4.867E-05  .000       .000       .000       .000       .000       8.800E-05
2.933E-05
         .000       7.800E-05  5.867E-05  .000       .000       .000       .000       .000       2.533E-05  6.333E-05
1.267E-05
        1.140E-04  3.800E-05   1.707E-04  1.707E-04  1.707E-04  1.707E-04  .000       .000       .000       .000
0 18     .000       .000       .000       .000       7.800E-05  5.867E-05  .000       .000       .000       7.800E-05
9.733E-05
        6.800E-05  9.733E-05   6.800E-05  .000       7.600E-05  8.867E-05  1.013E-04  8.867E-05  6.333E-05  3.800E-05
.000
        2.600E-05   .000       .000       .000       .000       .000       .000       .000       .000       .000
0 19     .000       .000       .000       .000       .000       .000       .000       .000       .000       3.867E-05
8.800E-05
        4.867E-05  1.667E-05   .000       2.533E-05  2.533E-05  2.533E-05  .000       3.800E-05  1.267E-05  1.293E-04
.000
         .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
0 20     .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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         .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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        .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
0 21    .000       .000       .000       .000       .000       .000       .000     5.867E-05  7.800E-05  1.933E-05
.000
        .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
.000
        .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
0 22    .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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        .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
.000
        .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
0
```

37 NUDOS EXTERIORES

0

CAPA	FIL	COL	COTA	CONDUCTANCIA	EXTER. N.
1	17	24	50.00	275.0	1
1	2	32	19.00	290.0	2
1	3	32	19.00	265.0	3
1	4	32	20.00	265.0	4
1	5	32	15.00	300.0	5
1	6	32	11.00	360.0	6
1	7	32	11.00	450.0	7
1	8	32	11.00	420.0	8
1	9	32	8.000	450.0	9
1	10	31	12.00	525.0	10
1	11	30	8.000	850.0	11
1	12	29	14.00	800.0	12
1	13	29	10.00	920.0	13
1	14	28	17.00	900.0	14
1	15	28	16.00	900.0	15
1	17	28	15.00	900.0	16
1	17	27	43.00	730.0	17
1	17	26	45.00	710.0	18
1	17	25	50.00	690.0	19

```
                    1       17      22      105.0           677.0           20
                    1       20      11      370.0           197.0           21
                    1       19      12      350.0           185.0           22
                    1       19      14      200.0           188.0           23
                    1       19      15      200.0           206.0           24
                    1       20      16      190.0           213.0           25
                    1       19      17      180.0           221.0           26
                    1       18      18      160.0           229.0           27
                    1       19      19      150.0           206.0           28
                    1        8      18      200.0           468.0           29
                    1        7      19      190.0           460.0           30
                    1       16      28      15.00           900.0           31
                    1       17      23      70.00           677.0           32
                    1        6      21      160.0           445.0           33
                    1        6      22      140.0           576.0           34
                    1        1      32      19.00           290.0           35
                    1       18      13      260.0           200.0           36
                    1        7      20      135.0           275.0           37
0"SEED" PROM. =  .00255272
 "SEED" MIN.  =  .00083052
0
    5 PARAMETROS ITERACION CALCULADOS DEL  "SEED" PROM.:

            .0000000E+00   .7752235E+00   .9494755E+00   .9886433E+00   .9974473E+00
0
    18 ITERACIONES INTERVALO N.   1 PERIODO EXTRACC.  1
0CAMBIO POT. MAX. PARA CADA ITERACION  :
0 CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO
POT.  CAPA,FIL,COL
 ------------------------------------------------------------------------------------------------------------------
-----------------
   -89.11     (  1, 15,  2)  -30.89     (  1, 12, 14)  -25.95     (  1, 13, 15)  -33.63     (  1, 13, 13)   25.93
(  1, 14, 12)
   -16.90     (  1, 13, 12)   4.545     (  1, 14, 12)   2.325     (  1, 21, 10)   1.639     (  1, 13,  9)  -1.599
(  1, 14, 12)
```

```
    .8292      (  1, 14, 12)    .3237      (  1, 16, 11)    .4042      (  1, 13,  8)    .3311      (  1, 15, 14)   -.2666
(  1, 14, 12)
    .1924      (  1, 13, 12)   -.5185E-01 (  1, 14, 12)    .2424E-01 (  1, 17, 19)
0
0INDIC. IMPRESION COTAS/DESC.= 1      INDICADOR IMPRIMIR BALANCE = 1      INDICADOR FLUJO INTERCELDAS = 1
0INDICADORES SALIDA POR CAPA:
          COTA     DESCENSO  COTA  DESCENSO
  CAPA  IMPRIMIR   IMPRIMIR SALVA   SALVA
 ----------------------------------------
    1       1         0       0       0
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     1    CAPA  1  FILA  17   COL  24 CAUDAL  -2054.092
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     2    CAPA  1  FILA   2   COL  32 CAUDAL   48.77234
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     3    CAPA  1  FILA   3   COL  32 CAUDAL   223.9309
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     4    CAPA  1  FILA   4   COL  32 CAUDAL   1490.344
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     5    CAPA  1  FILA   5   COL  32 CAUDAL   375.0129
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     6    CAPA  1  FILA   6   COL  32 CAUDAL  -1624.766
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     7    CAPA  1  FILA   7   COL  32 CAUDAL  -2587.361
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     8    CAPA  1  FILA   8   COL  32 CAUDAL  -2833.399
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     9    CAPA  1  FILA   9   COL  32 CAUDAL  -4559.539
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    10    CAPA  1  FILA  10   COL  31 CAUDAL  -3920.120
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    11    CAPA  1  FILA  11   COL  30 CAUDAL  -14479.29
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    12    CAPA  1  FILA  12   COL  29 CAUDAL  -16156.88
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    13    CAPA  1  FILA  13   COL  29 CAUDAL  -23598.31
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    14    CAPA  1  FILA  14   COL  28 CAUDAL  -24988.38
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    15    CAPA  1  FILA  15   COL  28 CAUDAL  -25648.45
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    16    CAPA  1  FILA  17   COL  28 CAUDAL  -25765.48
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    17    CAPA  1  FILA  17   COL  27 CAUDAL  -2572.418
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    18    CAPA  1  FILA  17   COL  26 CAUDAL  -3487.389
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    19    CAPA  1  FILA  17   COL  25 CAUDAL  -2587.147
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    20    CAPA  1  FILA  17   COL  22 CAUDAL  -1042.482
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    21    CAPA  1  FILA  20   COL  11 CAUDAL  -14337.23
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    22    CAPA  1  FILA  19   COL  12 CAUDAL  -14161.87
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    23    CAPA  1  FILA  19   COL  14 CAUDAL  -641.6343
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    24    CAPA  1  FILA  19   COL  15 CAUDAL   491.8212
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    25    CAPA  1  FILA  20   COL  16 CAUDAL   12.90298
```

```
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    26    CAPA  1  FILA  19   COL  17 CAUDAL  -1200.204
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    27    CAPA  1  FILA  18   COL  18 CAUDAL  -2134.698
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    28    CAPA  1  FILA  19   COL  19 CAUDAL  -1259.327
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    29    CAPA  1  FILA   8   COL  18 CAUDAL   20043.48
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    30    CAPA  1  FILA   7   COL  19 CAUDAL   16420.92
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    31    CAPA  1  FILA  16   COL  28 CAUDAL  -26157.46
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    32    CAPA  1  FILA  17   COL  23 CAUDAL  -3073.901
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    33    CAPA  1  FILA   6   COL  21 CAUDAL   9182.314
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    34    CAPA  1  FILA   6   COL  22 CAUDAL   3199.219
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    35    CAPA  1  FILA   1   COL  32 CAUDAL   11.48577
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    36    CAPA  1  FILA  18   COL  13 CAUDAL  -5502.948
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    37    CAPA  1  FILA   7   COL  20 CAUDAL  -1293.510
1                      COTA  EN CAPA  1 AL FINAL INTERVALO   1 PERIODO EXTRACC.  1
          ----------------------------------------------------------------------

          1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18
19    20
          21    22    23    24    25    26    27    28    29    30    31    32

.....
.....
0  1  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   19.   19.
0  2  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   19.
0  3  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   27.   24.   20.   18.
0  4  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   28.   24.   17.   14.
0  5  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
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	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	29.	25.	16.	14.						
0 6	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
1000.	1000.																	
	139.	134.	1000.	1000.	1000.	1000.	1000.	1000.	35.	26.	18.	16.						
0 7	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
154.	140.																	
	130.	121.	115.	1000.	80.	76.	72.	61.	49.	34.	20.	17.						
0 8	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	157.
144.	132.																	
	121.	112.	106.	97.	86.	80.	71.	56.	40.	30.	22.	18.						
0 9	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	138.
132.	124.																	
	115.	107.	103.	95.	86.	78.	67.	49.	34.	26.	21.	18.						
0 10	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	135.
129.	121.																	
	112.	104.	99.	93.	85.	73.	59.	43.	31.	25.	19.	1000.						
0 11	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	162.	155.	145.
134.	122.																	
	112.	103.	97.	89.	77.	64.	53.	44.	34.	25.	1000.	1000.						
0 12	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	195.	191.	186.	175.	162.	150.
137.	124.																	
	112.	103.	95.	86.	71.	59.	50.	43.	34.	1000.	1000.	1000.						
0 13	1000.	1000.	1000.	1000.	1000.	1000.	427.	420.	411.	400.	374.	295.	204.	196.	189.	180.	167.	153.
139.	125.																	
	112.	102.	95.	81.	63.	53.	49.	45.	36.	1000.	1000.	1000.						
0 14	1000.	1000.	1000.	1000.	1000.	451.	441.	430.	419.	408.	389.	368.	271.	199.	193.	184.	172.	158.
142.	126.																	
	112.	103.	93.	75.	59.	53.	49.	45.	1000.	1000.	1000.	1000.						
0 15	1000.	511.	507.	499.	485.	470.	455.	441.	427.	413.	399.	385.	298.	211.	199.	186.	175.	162.
146.	131.																	
	117.	108.	92.	68.	56.	52.	48.	44.	1000.	1000.	1000.	1000.						
0 16	520.	520.	520.	520.	495.	478.	462.	446.	432.	418.	404.	390.	311.	228.	206.	189.	177.	165.
150.	135.																	
	121.	110.	88.	64.	54.	51.	47.	44.	1000.	1000.	1000.	1000.						

```
0 17  1000. 1000. 1000.  520.  501.  484.  467.  450.  436.  422.  408.  393.  314.  231.  208.  190.  178.  167.
156.  145.
       131.  107.   75.   57.   54.   50.   47.   44. 1000. 1000. 1000. 1000.
0 18  1000. 1000. 1000.  520.  507.  494.  479.  464.  446.  431.  419.  391.  288.  217.  203.  189.  180.  169.
160.  153.
       147. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 19  1000. 1000. 1000.  520.  508.  499.  487.  470.  455.  445.  435.  427. 1000.  203.  198.  190.  185. 1000.
156.  155.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 20  1000. 1000. 1000.  520.  512.  503.  488.  473.  461.  451.  443. 1000. 1000. 1000. 1000.  190. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 21  1000. 1000. 1000.  520.  520.  520. 1000.  468.  463.  458. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 22  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0
```

BALANCE GLOBAL PARA TODO EL MODELO --- FINAL INTERVALO 1 PERIODO EXTRACC. 1

```
0              VOLUMS. ACUMULADOS      L**3                       CAUDALES PROM. INTERVALO
L**3/T
               ------------------                                 -----------------------

                  ENT                                                       ENT
                  ---                                                       ---
                 ALMACENAMIENTO =    .00000                         ALMACENAMIENTO =
.00000
               NUDOS NIV CONST =    .76096E+08                     NUDOS NIV CONST =
.20834E+06
                         POZOS =    .00000                                   POZOS =
.00000
```

RECARGA = .15147E+08 RECARGA =
41471.
NUDOS EXTERIORES = .18810E+08 NUDOS EXTERIORES =
51500.
0 ENTRADAS = .11005E+09 ENTRADAS =
.30131E+06
0 SAL: SAL:
---- ----
ALMACENAMIENTO = .00000 ALMACENAMIENTO =
.00000
NUDOS NIV CONST = .00000 NUDOS NIV CONST =
.00000
POZOS = .26863E+08 POZOS =
73548.
RECARGA = .00000 RECARGA =
.00000
NUDOS EXTERIORES = .83156E+08 NUDOS EXTERIORES =
.22767E+06
0 SALIDAS = .11002E+09 SALIDAS =
.30122E+06
0 DIFERENC.= 34824. DIFERENC.=
95.344
0 ERROR PORCENTUAL = .03 ERROR PORCENTUAL =
.03

0

RESUMEN TIEMPOS FINAL INTERVALO 1 PERIODO EXTRACC. 1

	SEGUNDOS	MINUTOS	HORAS	DIAS	AÑOS
DURACION INTERVALO	.315576E+08	525960.	8766.00	365.250	1.00000
TIEMPO PERIOD. EXTRAC	.315576E+08	525960.	8766.00	365.250	1.00000

TIEMPO TOTAL SIMULADO	.315576E+08	525960.	8766.00	365.250	1.00000

1

ANEJO V: SIMULACIÓN 6.

SIMULACIÓN 6

```
1                    ** MODELO McDONALD-HARBAUGH **    --versi¢n castellana de F.A.B.--
0MODELO MATEMATICO DEL SISTEMA ACUIFERO JAVALAMBRE (CASTELLON)                    REGIMEN PERMANENTE :: Archivos
CAS??P
    1CAPA(S)         22FILAS         32COLUMNAS
   1 PERIODO(S) EXTRAC. SIMULADO(S)
 UNIDAD DE TIEMPO: DIAS
0UNID. I/O:
         ELEMENTO:  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
       UNIDAD I/O: 10 20  0  0  0  0 70 80 90  0  0 99  0  0  0  0  0  0  0  0  0  0  0  0
0BAS1 -- MODELO BASICO,        VERSION 1, 12/08/83 LECT. ENT. UNIDAD No  1
 MATRICES RHS Y BUFF COMPARTEN MEMORIA.
 COTAS INIC. PRESERVADAS
   6394 ELEMENTOS MATRIZ X  USADOS POR  BAS
   6394 ELEMENTOS MATRIZ X DEL TOTAL DE  30000
0BCF1 -- NUDOS CENTRADOS EN LAS CELULAS VERS. 1, 12/08/83 ENTRADAS LEIDAS DE U 10
 REGIMEN PERMANENTE
      CAPA  ACUIFERO TIPO
      ------------------
         1         1
   1409 ELEMENTOS MATRIZ X USADOS POR BCF
   7803 ELEMENTOS MATRIZ X DEL TOTAL DE  30000
0WEL1 -- MODULO POZO , VERSION 1, 12/08/83 LECT. ENT. UNID 20
 MAXIMO DE    63 POZOS
    252 ELEMENTOS MATRIZ X USADOS PARA POZOS
   8055 ELEMENTOS MATRIX X USADOS DE     30000
0RCH1 -- APLICAC. RECARGA, VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 80
 OPCION 1 -- RECARGA CAPA SUPERIOR
    704 ELEMENTOS MATRIZ X USADOS EN RECARGA
   8759 ELEMENTOS MATRIZ X USADOS DE     30000
0GHB1 -- MODULO GHB , VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 70
 MAXIMO DE    37 NUDOS EXTERNOS (dep. potenc.)
 FLUJO INTERCELDAS SE IMPRIME CUANDO ICBCFL NO ES 0
    185 ELEMENTOS MATRIZ X EMPLEADOS EN NUDOS EXTERIORES
```

```
   8944 ELEMENTOS MATRIZ X EMPLEADOS DE  30000
0SIP1 -- MODULO SOLUCION "STRONG IMPLICIT PROCEDURE" , VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 90
 MAXIMO DE  500ITERACIONES PARA CERRAR
  5 PARAMETROS ITERACION
   4821 ELEMENTOS MATRIZ X EMPLEADOS EN SIP
  13765 ELEMENTOS MATRIZ X EMPLEADOS DE  30000
1MODELO MATEMATICO DEL SISTEMA ACUIFERO JAVALAMBRE (CASTELLON)                  REGIMEN PERMANENTE :: Archivos
CAS??P
0
```

MATRIZ LIMITES PARA CAPA 1 LECTURA EN UNIDAD No 1 CON FORMATO : (32I3)

```
          1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27
28  29  30
        31  32
 1    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
 0    0
          1   1
 2    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
 0    0
          0   1
 3    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
 0    1   1
          1   1
 4    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
 0    1   1
          1   1
 5    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
 0    1   1
```

		1	1																												
0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0			
0	1	1																													
		1	1																												
0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	1	1			
1	1	1																													
		1	1																												
0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1			
1	1	1																													
		1	1																												
0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1			
1	1	1																													
		1	1																												
0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1			
1	1	1																													
		1	0																												
0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1			
1	1	1																													
		0	0																												
0	12	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
1	1	0																													
		0	0																												
0	13	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
1	1	0																													
		0	0																												
0	14	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
1	0	0																													
		0	0																												
0	15	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
1	0	0																													
		0	0																												
0	16	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
1	0	0																													
		0	0																												

```
0 17    0   0   0  -1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
1   0   0
            0   0
0 18    0   0   0  -1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   0   0   0   0   0   0
0   0   0
            0   0
0 19    0   0   0  -1   1   1   1   1   1   1   1   1   0   1   1   1   1   0   1   1   0   0   0   0   0   0   0
0   0   0
            0   0
0 20    0   0   0  -1   1   1   1   1   1   1   1   0   0   0   0   1   0   0   0   0   0   0   0   0   0   0   0
0   0   0
            0   0
0 21    0   0   0  -1  -1  -1   0   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
            0   0
0 22    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
            0   0
0COTA DEL ACUIFERO FIJADA EN  999.99      EN NUDOS NO ACTIVOS (IBOUND = 0)
0
```

```
                                        COTA INICIAL:      CAPA  1 LECTURA EN UNIDAD      1    EN FORMATO: (32F5.0)
                                       ------------------------------------------------------------------------------
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          1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18
19    20
         21    22    23    24    25    26    27    28    29    30    31    32

.....................................................................................................................
............
0  1     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.   25.   15.
```

0 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.																	
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	15.						
0 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.																	
	0.	0.	0.	0.	0.	0.	0.	0.	40.	35.	20.	15.						
0 4	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.																	
	0.	0.	0.	0.	0.	0.	0.	0.	40.	35.	20.	15.						
0 5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.																	
	0.	0.	0.	0.	0.	0.	0.	0.	30.	25.	20.	15.						
0 6	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.																	
	160.	140.	0.	0.	0.	0.	0.	0.	30.	25.	20.	15.						
0 7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
190.	180.																	
	160.	140.	120.	0.	75.	65.	55.	50.	30.	25.	20.	15.						
0 8	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	200.
190.	180.																	
	160.	140.	120.	100.	75.	65.	55.	50.	30.	25.	20.	15.						
0 9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	200.
190.	180.																	
	160.	140.	120.	100.	75.	65.	55.	50.	30.	25.	20.	15.						
0 10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	200.
190.	180.																	
	160.	140.	120.	100.	75.	65.	55.	40.	30.	25.	20.	0.						
0 11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	250.	210.	200.
190.	180.																	
	160.	140.	120.	100.	75.	65.	55.	40.	30.	25.	0.	0.						
0 12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	350.	300.	240.	220.	210.	200.
190.	180.																	
	160.	140.	120.	100.	75.	65.	55.	40.	30.	0.	0.	0.						
0 13	0.	0.	0.	0.	0.	0.	460.	450.	430.	410.	390.	370.	350.	300.	240.	220.	210.	200.
190.	180.																	

```
        160.   140.   120.   100.    75.    65.    55.    40.    30.     0.     0.     0.
0 14      0.     0.     0.     0.     0.   470.   460.   450.   430.   410.   390.   370.   350.   300.   240.   220.   210.   200.
190.   180.
        160.   140.   120.   100.    75.    65.    55.    40.     0.     0.     0.     0.
0 15      0.   600.   500.   500.   480.   470.   460.   450.   430.   410.   390.   370.   350.   300.   240.   220.   210.   200.
190.   180.
        160.   140.   120.   100.    75.    65.    55.    40.     0.     0.     0.     0.
0 16    520.   520.   520.   520.   480.   470.   460.   450.   430.   410.   390.   370.   350.   300.   240.   220.   210.   200.
190.   180.
        160.   140.   120.   100.    75.    65.    55.    40.     0.     0.     0.     0.
0 17      0.     0.     0.   520.   480.   470.   460.   450.   430.   410.   390.   370.   350.   300.   240.   220.   210.   200.
190.   180.
        160.   140.   120.   100.    75.    65.    55.    40.     0.     0.     0.     0.
0 18      0.     0.     0.   520.   480.   470.   460.   450.   430.   410.   390.   370.   350.   300.   240.   220.   210.   200.
190.   180.
        160.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0 19      0.     0.     0.   520.   480.   470.   460.   450.   430.   410.   390.   370.     0.   300.   240.   220.   210.     0.
190.   180.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0 20      0.     0.     0.   520.   480.   470.   460.   450.   430.   410.   390.     0.     0.     0.     0.   220.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0 21      0.     0.     0.   520.   520.   520.   460.   400.   430.   410.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0 22      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0FORMATO IMPRESION COTAS -- NUMERO    7    FORMATO IMPRESION DESCENSOS -- NUMEROO   7
0COTAS ARCHIVADA EN UNIDAD N  0    DESCENSOS ARCHIVADOS EN UNIDAD   0
0CONTROL DE SALIDA EN TODOS LOS INTERVALOS
0                                                    COLUMN A FILA ANISOTROP. =    1.000000
0                                                                        DELX =    1000.000
0                                                                        DELY =    1500.000
0
```

HYD. COND. DIR. FILAS: CAPA 1 LECTURA EN UNIDAD 10 EN FORMATO: (32F5.2)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30	31	32								
0 1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10	1.13								
0 2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.13								
0 3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	1.13								
0 4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	7.36								
0 5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	7.36								
0 6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.92	1.63	.00	.00	.00	.00	.00	.00	2.41	2.41	2.41	8.74								
0 7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76	.78
	.92	1.63	3.15	.00	6.21	6.21	4.46	1.03	2.41	2.41	2.41	8.74								
0 8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.71	.87	.90

	.92	1.63	3.15	2.90	6.21	6.21	6.21	1.70	2.41	3.17	2.41	9.43						
0 9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10
1.13	1.15																	
	1.15	2.05	3.96	2.90	6.21	6.21	6.21	5.17	2.41	3.24	7.87	9.43						
0 10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10
1.13	1.15																	
	1.15	2.05	3.96	4.14	4.26	6.21	6.21	6.21	2.41	8.05	5.57	.00						
0 11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.03	1.13	1.10
1.06	1.10																	
	1.15	1.47	3.52	4.14	4.26	4.26	6.21	6.21	3.45	8.05	.00	.00						
0 12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.91	3.38	4.00	1.54	1.59	1.56
1.52	1.59																	
	1.66	2.05	3.15	4.14	4.26	4.26	6.21	6.21	2.18	.00	.00	.00						
0 13	.00	.00	.00	.00	.00	.00	2.23	2.21	3.29	3.27	2.14	1.22	3.66	3.22	3.75	1.54	1.59	1.56
1.59	1.75																	
	1.66	4.30	3.77	3.73	3.52	14.28	14.28	14.28	2.18	.00	.00	.00						
0 14	.00	.00	.00	.00	.00	1.72	2.23	2.21	3.29	3.27	2.14	3.43	3.04	3.38	3.38	1.54	1.59	1.01
1.03	1.13																	
	2.71	2.76	3.47	3.73	8.10	9.66	9.66	9.66	.00	.00	.00	.00						
0 15	.00	.62	1.38	1.38	2.39	2.41	2.46	2.48	3.01	3.11	3.47	3.47	2.60	2.60	1.59	1.31	1.91	1.59
1.61	1.52																	
	1.61	2.35	6.21	4.46	10.23	9.66	9.66	9.66	.00	.00	.00	.00						
0 16	1.38	1.38	1.38	1.38	3.01	3.08	2.85	2.92	3.01	3.11	3.47	3.47	2.60	1.54	.78	1.10	1.59	1.31
1.33	1.26																	
	2.32	2.35	6.21	4.46	10.23	9.66	9.66	9.66	.00	.00	.00	.00						
0 17	.00	.00	.00	1.72	3.38	3.36	3.36	2.92	3.01	3.11	3.22	3.13	2.60	1.82	.78	1.10	1.59	1.89
1.91	1.82																	
	2.21	3.56	6.21	10.23	10.23	9.66	9.66	9.66	.00	.00	.00	.00						
0 18	.00	.00	.00	1.72	3.38	2.58	2.69	3.89	2.92	3.89	2.41	2.76	2.02	1.82	.78	1.10	2.28	1.45
2.21	2.74																	
	2.53	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
0 19	.00	.00	.00	1.72	2.23	2.60	3.36	2.81	2.76	2.85	2.94	2.85	.00	1.54	.78	1.10	2.28	.00
3.11	3.45																	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						

```
0 20     .00    .00    .00   1.72   2.23   2.28   2.64   3.17   2.76   2.85   2.94    .00    .00    .00    .00   1.56    .00    .00
.00    .00
         .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
0 21     .00    .00    .00   1.72   3.24   3.24    .00   4.32   2.92   3.89    .00    .00    .00    .00    .00    .00    .00    .00
.00    .00
         .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
0 22     .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
.00    .00
         .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
0
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FONDO : CAPA 1 LECTURA EN UNIDAD 10 EN FORMATO: (32F5.0)

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          1      2      3      4      5      6      7      8      9     10     11     12     13     14     15     16     17     18
19     20
         21     22     23     24     25     26     27     28     29     30     31     32

.....................................................................................................................................
.............
0  1     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -200. -100.
0  2     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -100.
0  3     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0. -200.     0. -100. -100.
0  4     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0. -200.     0. -100. -100.
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0  5     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0. -200.    0. -100. -100.
0  6     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
         -500. -500.    0.    0.    0.    0.    0.    0.    0.    0. -100. -100.
0  7     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -
600. -600.
         -500. -500. -500.    0. -100. -100. -200. -200. -150.    0. -100. -100.
0  8     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -650. -
500. -500.
         -500. -500. -500. -200. -100. -100.    0. -100. -100. -100. -100. -100.
0  9     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -650. -
650. -650.
         -650. -650. -650. -200. -100. -100.    0.    0. -150. -150. -100. -100.
0 10     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -650. -
650. -650.
         -650. -650. -650. -200. -200.    0.    0.    0. -150. -100. -100.    0.
0 11     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -650. -650. -650. -
500. -500.
         -650. -650. -500. -200. -200. -200. -200. -200. -200. -200.    0.    0.
0 12     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -400. -500. -500. -650. -650. -650. -
500. -550.
         -650. -650. -500. -200. -200. -200. -200. -200. -350.    0.    0.    0.
0 13     0.    0.    0.    0.    0.    0.  100.  100.  100.  100.  200.  175. -400. -550. -550. -650. -650. -650. -
650. -600.
         -650. -650. -500. -150. -200. -350. -350. -350. -520.    0.    0.    0.
0 14     0.    0.    0.    0.    0.  200.  100.  100.  100.  100.  200.  150.  250. -500. -650. -650. -650. -650. -
650. -600.
         -650. -650. -550. -150. -400. -350. -350. -350.    0.    0.    0.    0.
0 15     0. -250. -250. -250. -250. -250. -250. -250. -150. -150. -100. -100.  250. -400. -650. -650. -650. -450. -
450. -500.
         -650. -650.    0. -150. -400. -400. -400. -525.    0.    0.    0.    0.
0 16  -250. -250. -250. -250. -100. -100. -150. -150. -150. -150. -100. -100.  250. -300. -650. -650. -650. -450. -
450. -500.
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      -650.  -650.    0.  -150.  -400.  -400.  -525.  -525.    0.    0.    0.    0.
0 17    0.     0.     0.  -100.   100.   100.   100.  -150.  -150.  -150.  -150.  -150.   250.  -200.  -650.  -650.  -650.  -450.  -
450.  -500.
      -250.     0.     0.  -400.  -400.  -400.  -525.  -525.    0.    0.    0.    0.
0 18    0.     0.     0.  -100.   100.   200.   200.   350.   350.   300.   100.   300.   250.  -200.  -650.  -650.  -650.  -650.  -
650.  -200.
      -200.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0 19    0.     0.     0.  -100.  -300.  -200.   100.   200.  -200.  -200.  -200.  -200.     0.  -300.  -650.  -650.  -650.     0.
0.     0.
        0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0 20    0.     0.     0.  -100.  -300.  -300.  -200.  -100.  -200.  -200.  -200.     0.     0.     0.     0.  -650.     0.     0.
0.     0.
        0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0 21    0.     0.     0.  -100.  -100.  -100.   300.   300.   350.   350.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
        0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0 22    0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
        0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0
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                    SOLUCION POR "STRONGLY IMPLICIT PROCEDURE"
                    -----------------------------------------
0                  ITERACIONES MAXIMAS PARA CERRAR     =       500
                             PARAMETRO ACELERADOR      =     1.0000
                    CRITERIO DE CIERRE EN POTENCIAL    =     .50000E-01
                    INTERV. IMPRIMIR CAMBIO POTENCIAL  =       10
0                   CALCULA PARAM. ITERACION DEL WSEED CALCULADO POR EL MODELO
1                  PERIODO EXTRAC. N   1, DURACION   365.2500
                   -------------------------------------------

                   NUMERO DE INTERVALOS =     1

                    MULTIPLICADOR INTERV.     1.000
```

0 63 POZOS

DURACION INTERVALO UNO = 365.2500

CAPA	FILA	COL	CAUDAL	POZO No.
1	19	12	-24.000	1
1	14	10	-432.00	2
1	12	17	-216.00	3
1	11	20	-4.0000	4
1	11	20	-315.00	5
1	17	21	-767.00	6
1	17	21	-10.000	7
1	12	17	-68.000	8
1	13	17	-360.00	9
1	11	20	-252.00	10
1	11	21	-30.000	11
1	7	23	-153.00	12
1	7	23	-411.00	13
1	8	29	-3070.0	14
1	9	20	-1095.0	15
1	13	25	-1972.0	16
1	18	7	-27.000	17
1	18	7	-56.000	18
1	12	20	-821.00	19
1	9	29	-3070.0	20
1	9	30	-3070.0	21
1	9	29	-1917.0	22
1	9	28	-3070.0	23
1	10	28	-3070.0	24
1	10	27	-3070.0	25
1	11	31	-1.0000	26
1	5	32	-2922.0	27
1	18	12	-8471.0	28
1	4	32	-2739.0	29
1	14	23	-630.00	30

1	10	20	-1660.0	31
1	14	15	-54.000	32
1	19	12	-24.000	33
1	19	17	-100.00	34
1	17	20	-261.00	35
1	17	17	-153.00	36
1	12	18	-137.00	37
1	13	29	-4438.0	38
1	15	28	-178.00	39
1	10	31	-1972.0	40
1	16	26	-1479.0	41
1	16	26	-1479.0	42
1	16	26	-411.00	43
1	17	27	-958.00	44
1	11	30	-559.00	45
1	11	30	-418.00	46
1	10	31	-1746.0	47
1	8	31	-835.00	48
1	17	22	-9126.0	49
1	17	23	-9126.0	50
1	16	24	-9126.0	51
1	15	24	-9126.0	52
1	14	24	-9126.0	53
1	13	25	-9126.0	54
1	13	25	-3070.0	55
1	9	26	-3070.0	56
1	10	29	-3070.0	57
1	11	27	-3070.0	58
1	11	28	-3070.0	59
1	12	25	-3070.0	60
1	12	26	-3070.0	61
1	12	27	-3070.0	62
1	12	28	-3070.0	63

0

RECARGA LECTURA EN UNIDAD 80 EN FORMATO: (32F6.0)

	1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31	32
0 1	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
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.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
0 3	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	.000	.000	.000	.000	.000	.000	6.800E-05	6.800E-05	1.533E-04	.000
0 4	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	.000	.000	.000	.000	.000	.000	1.020E-04	1.193E-04	.000	1.707E-04
0 5	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
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        .000        .000        .000       3.800E-05    .000        .000       1.193E-04   1.533E-04    .000       1.707E-04
0  6    .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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        .000        .000        .000        .000        .000        .000        .000        .000        .000       5.067E-05
8.867E-05
        .000        .000        .000       4.267E-05   4.733E-05    .000       6.800E-05   8.533E-05    .000       1.707E-04
0  7    .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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        .000        .000        .000        .000        .000        .000        .000       5.067E-05   1.013E-04   1.140E-04
2.533E-05
       2.533E-05    .000       5.067E-05   1.367E-04   6.800E-05   3.400E-05   8.533E-05   3.400E-05   5.067E-05   1.707E-04
0  8    .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
.000
        .000        .000        .000        .000        .000        .000       3.800E-05   1.273E-04   1.273E-04   1.267E-05
.000
        .000       2.533E-05   1.193E-04   1.193E-04   1.020E-04   3.400E-05   1.367E-04   3.400E-05   5.067E-05   1.707E-04
0  9    .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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        .000        .000        .000        .000        .000        .000       1.013E-04   7.600E-05   6.333E-05    .000
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        .000       3.800E-05   3.400E-05   1.367E-04   1.193E-04   3.400E-05    .000        .000       1.707E-04   1.707E-04
0 10    .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
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        .000       3.067E-04   5.067E-05   3.400E-05   3.400E-05   1.667E-05    .000       1.707E-04   1.707E-04    .000
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        .000       3.067E-03   8.533E-05   3.400E-05   1.667E-05    .000       1.707E-04   1.707E-04    .000        .000
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        .000       1.933E-05  6.800E-05  8.867E-05  .000       .000       .000       1.273E-04  6.333E-05  .000
2.533E-05
       1.267E-05  3.067E-03  .000       .000       .000       .000       1.707E-04  .000       .000       .000
0 13    .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
6.800E-05
       2.933E-05  1.933E-05  .000       1.140E-04  .000       .000       .000       2.533E-05  1.267E-05  .000
1.267E-05
       1.267E-05  2.533E-05  .000       .000       .000       1.667E-05  1.533E-04  .000       .000       .000
0 14    .000       .000       .000       .000       .000       .000       .000       .000       .000       9.333E-06
7.800E-05
       6.800E-05  4.867E-05  .000       3.800E-05  .000       .000       .000       .000       .000       .000
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       1.267E-05  1.013E-04  1.193E-04  5.067E-05  1.667E-05  1.367E-04  .000       .000       .000       .000
0 15    .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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        .000       6.800E-05  .000       .000       .000       2.533E-05  .000       .000       3.800E-05  1.267E-05
3.067E-03
       3.111E-03  1.140E-04  1.707E-04  1.533E-04  1.707E-04  1.707E-04  .000       .000       .000       .000
0 16    .000       .000       .000       .000       .000       .000       .000       .000       .000       1.933E-05
.000
       1.933E-05  9.733E-05  .000       .000       1.267E-05  5.067E-05  .000       .000       1.267E-05  3.800E-05
3.067E-03
       1.273E-04  1.013E-04  1.020E-04  1.533E-04  1.707E-04  1.707E-04  .000       .000       .000       .000
0 17    .000       .000       .000       4.867E-05  .000       .000       .000       .000       .000       8.800E-05
2.933E-05
        .000       7.800E-05  5.867E-05  .000       .000       .000       .000       .000       2.533E-05  6.333E-05
1.267E-05
       1.140E-04  3.800E-05  1.707E-04  1.707E-04  1.707E-04  1.707E-04  .000       .000       .000       .000
0 18    .000       .000       .000       .000       7.800E-05  5.867E-05  .000       .000       .000       7.800E-05
9.733E-05
       6.800E-05  9.733E-05  6.800E-05  .000       7.600E-05  8.867E-05  1.013E-04  8.867E-05  6.333E-05  3.800E-05
.000
       2.600E-05  .000       .000       .000       .000       .000       .000       .000       .000       .000
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8.800E-05
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	4.867E-05	1.667E-05	.000	2.533E-05	2.533E-05	2.533E-05	.000	3.800E-05	1.267E-05	1.293E-04
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0 21	.000	.000	.000	.000	.000	.000	.000	5.867E-05	7.800E-05	1.933E-05
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0										

37 NUDOS EXTERIORES

0

CAPA	FIL	COL	COTA	CONDUCTANCIA	EXTER. N.
1	17	24	50.00	275.0	1
1	2	32	19.00	290.0	2
1	3	32	19.00	265.0	3
1	4	32	20.00	265.0	4
1	5	32	15.00	300.0	5
1	6	32	11.00	360.0	6
1	7	32	11.00	450.0	7
1	8	32	11.00	420.0	8
1	9	32	8.000	450.0	9
1	10	31	12.00	525.0	10
1	11	30	8.000	850.0	11
1	12	29	14.00	800.0	12

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                    1       13      29      10.00           920.0           13
                    1       14      28      17.00           900.0           14
                    1       15      28      16.00           900.0           15
                    1       17      28      15.00           900.0           16
                    1       17      27      43.00           730.0           17
                    1       17      26      45.00           710.0           18
                    1       17      25      50.00           690.0           19
                    1       17      22      105.0           677.0           20
                    1       20      11      370.0           197.0           21
                    1       19      12      350.0           185.0           22
                    1       19      14      200.0           188.0           23
                    1       19      15      200.0           206.0           24
                    1       20      16      190.0           213.0           25
                    1       19      17      180.0           221.0           26
                    1       18      18      160.0           229.0           27
                    1       19      19      150.0           206.0           28
                    1        8      18      200.0           468.0           29
                    1        7      19      190.0           460.0           30
                    1       16      28      15.00           900.0           31
                    1       17      23      70.00           677.0           32
                    1        6      21      160.0           445.0           33
                    1        6      22      140.0           576.0           34
                    1        1      32      19.00           290.0           35
                    1       18      13      260.0           200.0           36
                    1        7      20      135.0           275.0           37
0"SEED" PROM. =   .00255272
 "SEED" MIN.  =   .00083052
0
    5 PARAMETROS ITERACION CALCULADOS DEL  "SEED" PROM.:

            .0000000E+00    .7752235E+00    .9494755E+00    .9886433E+00    .9974473E+00
0
    18 ITERACIONES INTERVALO N.   1 PERIODO EXTRACC.  1
0CAMBIO POT. MAX. PARA CADA ITERACION  :
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0 CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO
POT.  CAPA,FIL,COL
 ------------------------------------------------------------------------------------------------------------------
-----------------
   -89.11      (  1, 15,  2)  -30.95      (  1, 12, 14)  -26.76      (  1, 13, 15)  -36.11      (  1, 13, 13)   28.39
(  1, 14, 12)
   -19.07      (  1, 13, 12)   5.724      (  1, 14, 12)   2.564      (  1, 21, 10)   1.986      (  1, 13,  9)  -1.933
(  1, 14, 12)
    .9745      (  1, 14, 12)   .3847      (  1, 16, 11)   .4671      (  1, 13,  8)   .3768      (  1, 15, 14)  -.3090
(  1, 14, 12)
    .2281      (  1, 13, 12)  -.6701E-01 (  1, 14, 12)   .2753E-01 (  1, 17, 18)
0
0INDIC. IMPRESION COTAS/DESC.= 1     INDICADOR IMPRIMIR BALANCE = 1     INDICADOR FLUJO INTERCELDAS = 1
0INDICADORES SALIDA POR CAPA:
          COTA    DESCENSO  COTA  DESCENSO
  CAPA  IMPRIMIR  IMPRIMIR SALVA   SALVA
 ----------------------------------------
    1       1         0       0       0
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     1    CAPA  1  FILA  17   COL  24 CAUDAL  -154.6371
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     2    CAPA  1  FILA   2   COL  32 CAUDAL   65.30321
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     3    CAPA  1  FILA   3   COL  32 CAUDAL   300.1746
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     4    CAPA  1  FILA   4   COL  32 CAUDAL   1640.317
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     5    CAPA  1  FILA   5   COL  32 CAUDAL   613.5967
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     6    CAPA  1  FILA   6   COL  32 CAUDAL  -1192.101
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     7    CAPA  1  FILA   7   COL  32 CAUDAL  -1811.849
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     8    CAPA  1  FILA   8   COL  32 CAUDAL  -1795.843
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE     9    CAPA  1  FILA   9   COL  32 CAUDAL  -3114.367
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    10    CAPA  1  FILA  10   COL  31 CAUDAL  -1858.618
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    11    CAPA  1  FILA  11   COL  30 CAUDAL  -11082.17
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    12    CAPA  1  FILA  12   COL  29 CAUDAL  -12804.06
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    13    CAPA  1  FILA  13   COL  29 CAUDAL  -19428.05
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    14    CAPA  1  FILA  14   COL  28 CAUDAL  -19962.60
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    15    CAPA  1  FILA  15   COL  28 CAUDAL  -20864.65
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    16    CAPA  1  FILA  17   COL  28 CAUDAL  -21655.20
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    17    CAPA  1  FILA  17   COL  27 CAUDAL   978.5621
```

```
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    18    CAPA  1  FILA  17   COL  26 CAUDAL   314.7473
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    19    CAPA  1  FILA  17   COL  25 CAUDAL   1601.582
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    20    CAPA  1  FILA  17   COL  22 CAUDAL   4776.070
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    21    CAPA  1  FILA  20   COL  11 CAUDAL  -14365.48
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    22    CAPA  1  FILA  19   COL  12 CAUDAL  -14195.56
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    23    CAPA  1  FILA  19   COL  14 CAUDAL  -208.5998
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    24    CAPA  1  FILA  19   COL  15 CAUDAL   982.2405
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    25    CAPA  1  FILA  20   COL  16 CAUDAL   439.6667
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    26    CAPA  1  FILA  19   COL  17 CAUDAL  -596.7836
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    27    CAPA  1  FILA  18   COL  18 CAUDAL  -1303.985
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    28    CAPA  1  FILA  19   COL  19 CAUDAL  -580.7297
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    29    CAPA  1  FILA   8   COL  18 CAUDAL   21098.78
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    30    CAPA  1  FILA   7   COL  19 CAUDAL   17164.78
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    31    CAPA  1  FILA  16   COL  28 CAUDAL  -21684.85
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    32    CAPA  1  FILA  17   COL  23 CAUDAL   3076.303
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    33    CAPA  1  FILA   6   COL  21 CAUDAL   9789.538
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    34    CAPA  1  FILA   6   COL  22 CAUDAL   4069.310
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    35    CAPA  1  FILA   1   COL  32 CAUDAL   15.37539
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    36    CAPA  1  FILA  18   COL  13 CAUDAL  -5300.409
0NUDOS EXTERIORES  PERIODO  1  INTER  1   LIMITE    37    CAPA  1  FILA   7   COL  20 CAUDAL  -736.4567
1                      COTA  EN CAPA  1 AL FINAL INTERVALO   1 PERIODO EXTRACC.  1
          ----------------------------------------------------------------------

         1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18
19    20
        21    22    23    24    25    26    27    28    29    30    31    32

.....................................................................................................
.............
0  1  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   19.   19.
0  2  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   19.
```

0 3	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	26.	23.	19.	18.								
0 4	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	26.	23.	16.	14.								
0 5	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	27.	23.	15.	13.								
0 6	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	138.	133.	1000.	1000.	1000.	1000.	1000.	1000.	32.	24.	16.	14.								
0 7	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	127.	118.	112.	1000.	74.	71.	67.	56.	44.	30.	18.	15.								
0 8	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	155.
	118.	108.	102.	92.	81.	74.	65.	50.	33.	25.	18.	15.								
0 9	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	134.
	111.	102.	98.	90.	80.	72.	61.	40.	24.	19.	17.	15.								
0 10	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	130.
	107.	99.	94.	87.	79.	67.	51.	35.	24.	20.	16.	1000.								
0 11	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	156.	150.	139.		
	106.	97.	91.	83.	71.	58.	46.	38.	29.	21.	1000.	1000.								
0 12	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	190.	186.	181.	169.	157.	145.		
	106.	96.	89.	79.	64.	51.	44.	38.	30.	1000.	1000.	1000.								
0 13	1000.	1000.	1000.	1000.	1000.	1000.	427.	421.	412.	401.	374.	293.	200.	191.	184.	174.	161.	148.		
	105.	95.	88.	73.	53.	46.	43.	39.	31.	1000.	1000.	1000.								
0 14	1000.	1000.	1000.	1000.	1000.	451.	441.	430.	419.	408.	390.	369.	268.	194.	188.	179.	167.	153.		

```
        105.   96.   85.   65.   51.   46.   43.   39. 1000. 1000. 1000. 1000.
0 15   1000.  511.  507.  499.  485.  470.  455.  441.  427.  414.  400.  386.  296.  207.  194.  182.  170.  157.
141.   125.
        111.  101.   83.   57.   49.   45.   42.   39. 1000. 1000. 1000. 1000.
0 16    520.  520.  520.  520.  495.  478.  462.  446.  432.  418.  404.  390.  310.  224.  202.  185.  173.  160.
145.   129.
        114.  104.   80.   54.   47.   44.   42.   39. 1000. 1000. 1000. 1000.
0 17   1000. 1000. 1000.  520.  501.  484.  467.  450.  436.  422.  408.  393.  312.  228.  205.  186.  174.  163.
151.   139.
        126.   98.   65.   51.   48.   45.   42.   39. 1000. 1000. 1000. 1000.
0 18   1000. 1000. 1000.  520.  507.  494.  480.  464.  447.  431.  419.  392.  287.  214.  199.  186.  176.  166.
156.   149.
        142. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 19   1000. 1000. 1000.  520.  508.  499.  487.  470.  456.  445.  436.  427. 1000.  201.  195.  187.  183. 1000.
153.   151.
       1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 20   1000. 1000. 1000.  520.  512.  503.  488.  474.  461.  451.  443. 1000. 1000. 1000. 1000.  188. 1000. 1000.
1000. 1000.
       1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 21   1000. 1000. 1000.  520.  520.  520. 1000.  469.  463.  458. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
       1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 22   1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
       1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0
```

BALANCE GLOBAL PARA TODO EL MODELO --- FINAL INTERVALO 1 PERIODO EXTRACC. 1

0 VOLUMS. ACUMULADOS L**3 CAUDALES PROM. INTERVALO
L**3/T

ENT ENT

ALMACENAMIENTO =	.00000	ALMACENAMIENTO =
.00000		
NUDOS NIV CONST =	.75886E+08	NUDOS NIV CONST =
.20777E+06		
POZOS =	.00000	POZOS =
.00000		
RECARGA =	.15147E+08	RECARGA =
41471.		
NUDOS EXTERIORES =	.24445E+08	NUDOS EXTERIORES =
66926.		
0 ENTRADAS =	.11548E+09	ENTRADAS =
.31616E+06		
0 SAL:		SAL:
----		----
ALMACENAMIENTO =	.00000	ALMACENAMIENTO =
.00000		
NUDOS NIV CONST =	.00000	NUDOS NIV CONST =
.00000		
POZOS =	.51632E+08	POZOS =
.14136E+06		
RECARGA =	.00000	RECARGA =
.00000		
NUDOS EXTERIORES =	.63808E+08	NUDOS EXTERIORES =
.17470E+06		
0 SALIDAS =	.11544E+09	SALIDAS =
.31606E+06		
0 DIFERENC.=	38456.	DIFERENC.=
105.31		
0 ERROR PORCENTUAL =	.03	ERROR PORCENTUAL =
.03		

0

RESUMEN TIEMPOS FINAL INTERVALO 1 PERIODO EXTRACC. 1

	SEGUNDOS	MINUTOS	HORAS	DIAS	AYOS
DURACION INTERVALO	.315576E+08	525960.	8766.00	365.250	1.00000
TIEMPO PERIOD. EXTRAC	.315576E+08	525960.	8766.00	365.250	1.00000
TIEMPO TOTAL SIMULADO	.315576E+08	525960.	8766.00	365.250	1.00000

1

ANEJO VI.: SIMULACIÓN 7.

SIMULACIÓN 7

```
1                    ** MODELO McDONALD-HARBAUGH **    --versi¢n castellana de F.A.B.--
0MODELO MATEMATICO DEL SISTEMA ACUIFERO JAVALAMBRE (CASTELLON)                    REGIMEN PERMANENTE :: Archivos
CAS??P
    1CAPA(S)         22FILAS         32COLUMNAS
   1 PERIODO(S) EXTRAC. SIMULADO(S)
 UNIDAD DE TIEMPO: DIAS
0UNID. I/O:
         ELEMENTO:  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
       UNIDAD I/O: 10 20  0  0  0  0 70 80 90  0  0 99  0  0  0  0  0  0  0  0  0  0  0  0
0BAS1 -- MODELO BASICO,        VERSION 1, 12/08/83 LECT. ENT. UNIDAD No  1
 MATRICES RHS Y BUFF COMPARTEN MEMORIA.
 COTAS INIC. PRESERVADAS
   6394 ELEMENTOS MATRIZ X  USADOS POR  BAS
   6394 ELEMENTOS MATRIZ X DEL TOTAL DE  30000
0BCF1 -- NUDOS CENTRADOS EN LAS CELULAS VERS. 1, 12/08/83 ENTRADAS LEIDAS DE U 10
 REGIMEN PERMANENTE
      CAPA  ACUIFERO TIPO
      -------------------
         1         1
   1409 ELEMENTOS MATRIZ X USADOS POR BCF
   7803 ELEMENTOS MATRIZ X DEL TOTAL DE  30000
0WEL1 -- MODULO POZO , VERSION 1, 12/08/83 LECT. ENT. UNID 20
 MAXIMO DE    53 POZOS
    212 ELEMENTOS MATRIZ X USADOS PARA POZOS
   8015 ELEMENTOS MATRIX X USADOS DE     30000
0RCH1 -- APLICAC. RECARGA, VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 80
 OPCION 1 -- RECARGA CAPA SUPERIOR
    704 ELEMENTOS MATRIZ X USADOS EN RECARGA
   8719 ELEMENTOS MATRIZ X USADOS DE     30000
0GHB1 -- MODULO GHB , VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 70
 MAXIMO DE    37 NUDOS EXTERNOS (dep. potenc.)
 FLUJO INTERCELDAS SE IMPRIME CUANDO ICBCFL NO ES 0
    185 ELEMENTOS MATRIZ X EMPLEADOS EN NUDOS EXTERIORES
```

```
   8904 ELEMENTOS MATRIZ X EMPLEADOS DE  30000
0SIP1 -- MODULO SOLUCION "STRONG IMPLICIT PROCEDURE" , VERSION 1, 12/08/83 LECTURA DE LA UNIDAD 90
 MAXIMO DE  500ITERACIONES PARA CERRAR
  5 PARAMETROS ITERACION
   4821 ELEMENTOS MATRIZ X EMPLEADOS EN SIP
  13725 ELEMENTOS MATRIZ X EMPLEADOS DE  30000
1MODELO MATEMATICO DEL SISTEMA ACUIFERO JAVALAMBRE (CASTELLON)                  REGIMEN PERMANENTE :: Archivos
CAS??P
0
```

MATRIZ LIMITES PARA CAPA 1 LECTURA EN UNIDAD No 1 CON FORMATO : (32I3)

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         1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27
28  29  30
        31  32

.....................................................................................................................
.............
0  1     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0    0   0
         1   1
0  2     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0    0   0
         0   1
0  3     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0    1   1
         1   1
0  4     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0    1   1
         1   1
0  5     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0    1   1
```

```
          1  1
0  6      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  0  0  0  0  0
0  1      1
          1  1
0  7      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1  0  1  1  1
1  1      1
          1  1
0  8      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1  1  1  1  1  1
1  1      1
          1  1
0  9      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1  1  1  1  1  1
1  1      1
          1  1
0 10      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1  1  1  1  1  1
1  1      1
          1  0
0 11      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1  1  1  1  1  1  1  1
1  1      1
          0  0
0 12      0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
1  1      0
          0  0
0 13      0  0  0  0  0  0  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
1  1      0
          0  0
0 14      0  0  0  0  0  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
1  0      0
          0  0
0 15      0  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
1  0      0
          0  0
0 16     -1 -1 -1 -1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
1  0      0
          0  0
```

```
0 17    0   0   0  -1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
1   0   0
            0   0
0 18    0   0   0  -1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   0   0   0   0   0   0
0   0   0
            0   0
0 19    0   0   0  -1   1   1   1   1   1   1   1   1   0   1   1   1   1   0   1   1   0   0   0   0   0   0   0
0   0   0
            0   0
0 20    0   0   0  -1   1   1   1   1   1   1   1   0   0   0   0   1   0   0   0   0   0   0   0   0   0   0   0
0   0   0
            0   0
0 21    0   0   0  -1  -1  -1   0   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
            0   0
0 22    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
0   0   0
            0   0
0COTA DEL ACUIFERO FIJADA EN  999.99     EN NUDOS NO ACTIVOS (IBOUND = 0)
0
```

```
                                        COTA INICIAL:     CAPA  1 LECTURA EN UNIDAD     1   EN FORMATO: (32F5.0)
-----------------------------------------------------------------------------------------------------------------
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          1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18
19    20
         21    22    23    24    25    26    27    28    29    30    31    32

.....................................................................................................................
.....
0  1     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0.    0.    0.   25.   15.
```

```
0  2     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
            0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.   15.
0  3     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
            0.    0.    0.    0.    0.    0.    0.    0.   40.   35.   20.   15.
0  4     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
            0.    0.    0.    0.    0.    0.    0.    0.   40.   35.   20.   15.
0  5     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
            0.    0.    0.    0.    0.    0.    0.    0.   30.   25.   20.   15.
0  6     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
          160.  140.    0.    0.    0.    0.    0.    0.   30.   25.   20.   15.
0  7     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
190.  180.
          160.  140.  120.    0.   75.   65.   55.   50.   30.   25.   20.   15.
0  8     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.  200.
190.  180.
          160.  140.  120.  100.   75.   65.   55.   50.   30.   25.   20.   15.
0  9     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.  200.
190.  180.
          160.  140.  120.  100.   75.   65.   55.   50.   30.   25.   20.   15.
0 10     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.  200.
190.  180.
          160.  140.  120.  100.   75.   65.   55.   40.   30.   25.   20.    0.
0 11     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.  250.  210.  200.
190.  180.
          160.  140.  120.  100.   75.   65.   55.   40.   30.   25.    0.    0.
0 12     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.  350.  300.  240.  220.  210.  200.
190.  180.
          160.  140.  120.  100.   75.   65.   55.   40.   30.    0.    0.    0.
0 13     0.    0.    0.    0.    0.    0.  460.  450.  430.  410.  390.  370.  350.  300.  240.  220.  210.  200.
190.  180.
```

```
        160.   140.   120.   100.    75.    65.    55.    40.    30.     0.     0.     0.
0 14      0.     0.     0.     0.     0.   470.   460.   450.   430.   410.   390.   370.   350.   300.   240.   220.   210.   200.
190.   180.
        160.   140.   120.   100.    75.    65.    55.    40.     0.     0.     0.     0.
0 15      0.   600.   500.   500.   480.   470.   460.   450.   430.   410.   390.   370.   350.   300.   240.   220.   210.   200.
190.   180.
        160.   140.   120.   100.    75.    65.    55.    40.     0.     0.     0.     0.
0 16    520.   520.   520.   520.   480.   470.   460.   450.   430.   410.   390.   370.   350.   300.   240.   220.   210.   200.
190.   180.
        160.   140.   120.   100.    75.    65.    55.    40.     0.     0.     0.     0.
0 17      0.     0.     0.   520.   480.   470.   460.   450.   430.   410.   390.   370.   350.   300.   240.   220.   210.   200.
190.   180.
        160.   140.   120.   100.    75.    65.    55.    40.     0.     0.     0.     0.
0 18      0.     0.     0.   520.   480.   470.   460.   450.   430.   410.   390.   370.   350.   300.   240.   220.   210.   200.
190.   180.
        160.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0 19      0.     0.     0.   520.   480.   470.   460.   450.   430.   410.   390.   370.     0.   300.   240.   220.   210.     0.
190.   180.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0 20      0.     0.     0.   520.   480.   470.   460.   450.   430.   410.   390.     0.     0.     0.     0.   220.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0 21      0.     0.     0.   520.   520.   520.   460.   400.   430.   410.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0 22      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0FORMATO IMPRESION COTAS -- NUMERO    7    FORMATO IMPRESION DESCENSOS -- NUMEROO    7
0COTAS ARCHIVADA EN UNIDAD N  0    DESCENSOS ARCHIVADOS EN UNIDAD    0
0CONTROL DE SALIDA EN TODOS LOS INTERVALOS
0                                                    COLUMN A FILA ANISOTROP. =    1.000000
0                                                                 DELX =    1000.000
0                                                                 DELY =    1500.000
0
```

HYD. COND. DIR. FILAS: CAPA 1 LECTURA EN UNIDAD 10 EN FORMATO: (32F5.2)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30	31	32								
0 1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10	1.13								
0 2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.13								
0 3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	1.13								
0 4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	7.36								
0 5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	1.29	1.29	1.13	7.36								
0 6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.92	1.63	.00	.00	.00	.00	.00	.00	2.41	2.41	2.41	8.74								
0 7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76	.78
	.92	1.63	3.15	.00	6.21	6.21	4.46	1.03	2.41	2.41	2.41	8.74								
0 8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.71	.87	.90

	.92	1.63	3.15	2.90	6.21	6.21	6.21	1.70	2.41	3.17	2.41	9.43						
0 9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10
1.13	1.15																	
	1.15	2.05	3.96	2.90	6.21	6.21	6.21	5.17	2.41	3.24	7.87	9.43						
0 10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10
1.13	1.15																	
	1.15	2.05	3.96	4.14	4.26	6.21	6.21	6.21	2.41	8.05	5.57	.00						
0 11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.03	1.13	1.10
1.06	1.10																	
	1.15	1.47	3.52	4.14	4.26	4.26	6.21	6.21	3.45	8.05	.00	.00						
0 12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.91	3.38	4.00	1.54	1.59	1.56
1.52	1.59																	
	1.66	2.05	3.15	4.14	4.26	4.26	6.21	6.21	2.18	.00	.00	.00						
0 13	.00	.00	.00	.00	.00	.00	2.23	2.21	3.29	3.27	2.14	1.22	3.66	3.22	3.75	1.54	1.59	1.56
1.59	1.75																	
	1.66	4.30	3.77	3.73	3.52	14.28	14.28	14.28	2.18	.00	.00	.00						
0 14	.00	.00	.00	.00	.00	1.72	2.23	2.21	3.29	3.27	2.14	3.43	3.04	3.38	3.38	1.54	1.59	1.01
1.03	1.13																	
	2.71	2.76	3.47	3.73	8.10	9.66	9.66	9.66	.00	.00	.00	.00						
0 15	.00	.62	1.38	1.38	2.39	2.41	2.46	2.48	3.01	3.11	3.47	3.47	2.60	2.60	1.59	1.31	1.91	1.59
1.61	1.52																	
	1.61	2.35	6.21	4.46	10.23	9.66	9.66	9.66	.00	.00	.00	.00						
0 16	1.38	1.38	1.38	1.38	3.01	3.08	2.85	2.92	3.01	3.11	3.47	3.47	2.60	1.54	.78	1.10	1.59	1.31
1.33	1.26																	
	2.32	2.35	6.21	4.46	10.23	9.66	9.66	9.66	.00	.00	.00	.00						
0 17	.00	.00	.00	1.72	3.38	3.36	3.36	2.92	3.01	3.11	3.22	3.13	2.60	1.82	.78	1.10	1.59	1.89
1.91	1.82																	
	2.21	3.56	6.21	10.23	10.23	9.66	9.66	9.66	.00	.00	.00	.00						
0 18	.00	.00	.00	1.72	3.38	2.58	2.69	3.89	2.92	3.89	2.41	2.76	2.02	1.82	.78	1.10	2.28	1.45
2.21	2.74																	
	2.53	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
0 19	.00	.00	.00	1.72	2.23	2.60	3.36	2.81	2.76	2.85	2.94	2.85	.00	1.54	.78	1.10	2.28	.00
3.11	3.45																	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						

```
0 20     .00    .00    .00   1.72   2.23   2.28   2.64   3.17   2.76   2.85   2.94    .00    .00    .00    .00   1.56    .00    .00
.00    .00
         .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
0 21     .00    .00    .00   1.72   3.24   3.24    .00   4.32   2.92   3.89    .00    .00    .00    .00    .00    .00    .00    .00
.00    .00
         .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
0 22     .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
.00    .00
         .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
0
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FONDO : CAPA 1 LECTURA EN UNIDAD 10 EN FORMATO: (32F5.0)

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          1      2      3      4      5      6      7      8      9     10     11     12     13     14     15     16     17     18
19     20
            21     22     23     24     25     26     27     28     29     30     31     32

.....................................................................................................................................
.............
0  1      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -200. -100.
0  2      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0. -100.
0  3      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0. -200.     0. -100. -100.
0  4      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
0.     0.
          0.     0.     0.     0.     0.     0.     0.     0. -200.     0. -100. -100.
```

```
0  5     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
          0.    0.    0.    0.    0.    0.    0.    0. -200.    0. -100. -100.
0  6     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
         -500. -500.    0.    0.    0.    0.    0.    0.    0.    0. -100. -100.
0  7     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -
600. -600.
         -500. -500. -500.    0. -100. -100. -200. -200. -150.    0. -100. -100.
0  8     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -650. -
500. -500.
         -500. -500. -500. -200. -100. -100.    0. -100. -100. -100. -100. -100.
0  9     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -650. -
650. -650.
         -650. -650. -650. -200. -100. -100.    0.    0. -150. -150. -100. -100.
0 10     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -650. -
650. -650.
         -650. -650. -650. -200. -200.    0.    0.    0. -150. -100. -100.    0.
0 11     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -650. -650. -650. -
500. -500.
         -650. -650. -500. -200. -200. -200. -200. -200. -200. -200.    0.    0.
0 12     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0. -400. -500. -500. -650. -650. -650. -
500. -550.
         -650. -650. -500. -200. -200. -200. -200. -200. -350.    0.    0.    0.
0 13     0.    0.    0.    0.    0.    0.  100.  100.  100.  100.  200.  175. -400. -550. -550. -650. -650. -650. -
650. -600.
         -650. -650. -500. -150. -200. -350. -350. -350. -520.    0.    0.    0.
0 14     0.    0.    0.    0.    0.  200.  100.  100.  100.  100.  200.  150.  250. -500. -650. -650. -650. -650. -
650. -600.
         -650. -650. -550. -150. -400. -350. -350. -350.    0.    0.    0.    0.
0 15     0. -250. -250. -250. -250. -250. -250. -250. -150. -150. -100. -100.  250. -400. -650. -650. -650. -450. -
450. -500.
         -650. -650.    0. -150. -400. -400. -400. -525.    0.    0.    0.    0.
0 16  -250. -250. -250. -250. -100. -100. -150. -150. -150. -150. -100. -100.  250. -300. -650. -650. -650. -450. -
450. -500.
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      -650. -650.    0. -150. -400. -400. -525. -525.    0.    0.    0.    0.
0 17     0.    0.    0. -100.  100.  100.  100. -150. -150. -150. -150. -150.  250. -200. -650. -650. -650. -450. -
450. -500.
      -250.    0.    0. -400. -400. -400. -525. -525.    0.    0.    0.    0.
0 18     0.    0.    0. -100.  100.  200.  200.  350.  350.  300.  100.  300.  250. -200. -650. -650. -650. -650. -
650. -200.
      -200.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 19     0.    0.    0. -100. -300. -200.  100.  200. -200. -200. -200. -200.    0. -300. -650. -650. -650.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 20     0.    0.    0. -100. -300. -300. -200. -100. -200. -200. -200.    0.    0.    0.    0. -650.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 21     0.    0.    0. -100. -100. -100.  300.  300.  350.  350.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0 22     0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0.    0.
         0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
0
```

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0
                                        SOLUCION POR "STRONGLY IMPLICIT PROCEDURE"
                                        ------------------------------------------
                                      ITERACIONES MAXIMAS PARA CERRAR      =       500
                                                  PARAMETRO ACELERADOR     =     1.0000
                                        CRITERIO DE CIERRE EN POTENCIAL    =     .50000E-01
                                        INTERV. IMPRIMIR CAMBIO POTENCIAL  =       10
0                                       CALCULA PARAM. ITERACION DEL WSEED CALCULADO POR EL MODELO
1                                     PERIODO EXTRAC. N    1, DURACION    365.2500
                                      ----------------------------------------------

                                      NUMERO DE INTERVALOS =      1

                                       MULTIPLICADOR INTERV.      1.000
```

0 53 POZOS

DURACION INTERVALO UNO = 365.2500

CAPA	FILA	COL	CAUDAL	POZO No.
1	19	12	-24.000	1
1	14	10	-432.00	2
1	12	17	-216.00	3
1	11	20	-4.0000	4
1	11	20	-315.00	5
1	17	21	-767.00	6
1	17	21	-10.000	7
1	12	17	-68.000	8
1	13	17	-360.00	9
1	11	20	-252.00	10
1	11	21	-30.000	11
1	7	23	-153.00	12
1	7	23	-411.00	13
1	8	29	-255.00	14
1	8	29	-3353.0	15
1	9	20	-1095.0	16
1	13	25	-1972.0	17
1	18	7	-27.000	18
1	18	7	-56.000	19
1	12	20	-821.00	20
1	9	29	-1969.0	21
1	9	30	-6784.0	22
1	9	30	-6146.0	23
1	9	29	-1917.0	24
1	9	28	-2272.0	25
1	9	28	-4680.0	26
1	10	28	-1917.0	27
1	10	27	-3434.0	28
1	11	31	-1.0000	29
1	5	32	-2922.0	30

1	18	12	-8471.0	31
1	4	32	-2739.0	32
1	14	23	-630.00	33
1	10	20	-1660.0	34
1	14	15	-54.000	35
1	19	12	-24.000	36
1	19	17	-100.00	37
1	17	20	-261.00	38
1	17	17	-153.00	39
1	12	18	-137.00	40
1	13	29	-4438.0	41
1	15	28	-178.00	42
1	10	31	-1972.0	43
1	16	26	-1479.0	44
1	16	26	-1479.0	45
1	16	26	-411.00	46
1	17	27	-958.00	47
1	11	30	-559.00	48
1	11	30	-418.00	49
1	10	31	-1746.0	50
1	8	31	-835.00	51
1	13	26	-11520.	52
1	13	27	-5760.0	53

0

RECARGA LECTURA EN UNIDAD 80 EN FORMATO: (32F6.0)

1	2	3	4	5	6	7	8	9	10
11									
12	13	14	15	16	17	18	19	20	21
22									
23	24	25	26	27	28	29	30	31	32

0 1	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
0 2	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
0 3	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	6.800E-05	6.800E-05	1.533E-04	.000
0 4	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	1.020E-04	1.193E-04	.000	1.707E-04
0 5	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	3.800E-05	.000	.000	1.193E-04	1.533E-04	.000	1.707E-04
0 6	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	.000	.000	.000	.000	.000	.000	.000	.000	.000	5.067E-05
8.867E-05										
	.000	.000	.000	4.267E-05	4.733E-05	.000	6.800E-05	8.533E-05	.000	1.707E-04
0 7	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000										

```
        .000        .000        .000        .000        .000        .000        .000       5.067E-05   1.013E-04   1.140E-04
2.533E-05
       2.533E-05    .000       5.067E-05   1.367E-04   6.800E-05   3.400E-05   8.533E-05   3.400E-05   5.067E-05   1.707E-04
0  8    .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
.000
        .000        .000        .000        .000        .000        .000       3.800E-05   1.273E-04   1.273E-04   1.267E-05
.000
        .000       2.533E-05   1.193E-04   1.193E-04   1.020E-04   3.400E-05   1.367E-04   3.400E-05   5.067E-05   1.707E-04
0  9    .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
.000
        .000        .000        .000        .000        .000        .000       1.013E-04   7.600E-05   6.333E-05    .000
.000
        .000       3.800E-05   3.400E-05   1.367E-04   1.193E-04   3.400E-05    .000        .000       1.707E-04   1.707E-04
0 10    .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
.000
        .000        .000        .000        .000        .000        .000       3.800E-05    .000        .000        .000
.000
        .000       3.067E-04   5.067E-05   3.400E-05   3.400E-05   1.667E-05    .000       1.707E-04   1.707E-04    .000
0 11    .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
.000
        .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
.000
        .000       3.067E-03   8.533E-05   3.400E-05   1.667E-05    .000       1.707E-04   1.707E-04    .000        .000
0 12    .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
.000
        .000       1.933E-05   6.800E-05   8.867E-05    .000        .000        .000       1.273E-04   6.333E-05    .000
2.533E-05
       1.267E-05   3.067E-03    .000        .000        .000        .000       1.707E-04    .000        .000        .000
0 13    .000        .000        .000        .000        .000        .000        .000        .000        .000        .000
6.800E-05
       2.933E-05   1.933E-05    .000       1.140E-04    .000        .000        .000       2.533E-05   1.267E-05    .000
1.267E-05
       1.267E-05   2.533E-05    .000        .000        .000       1.667E-05   1.533E-04    .000        .000        .000
0 14    .000        .000        .000        .000        .000        .000        .000        .000        .000       9.333E-06
7.800E-05
```

```
        6.800E-05  4.867E-05   .000      3.800E-05   .000       .000       .000       .000       .000       .000
.000
        1.267E-05  1.013E-04  1.193E-04  5.067E-05  1.667E-05  1.367E-04   .000       .000       .000       .000
0 15     .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
.000
         .000       6.800E-05  .000       .000       .000       2.533E-05  .000       .000       3.800E-05  1.267E-05
3.067E-03
        3.111E-03  1.140E-04  1.707E-04  1.533E-04  1.707E-04  1.707E-04   .000       .000       .000       .000
0 16     .000       .000       .000       .000       .000       .000       .000       .000       .000       1.933E-05
.000
        1.933E-05  9.733E-05   .000       .000       1.267E-05  5.067E-05  .000       .000       1.267E-05  3.800E-05
3.067E-03
        1.273E-04  1.013E-04  1.020E-04  1.533E-04  1.707E-04  1.707E-04   .000       .000       .000       .000
0 17     .000       .000       .000       4.867E-05   .000       .000       .000       .000       .000       8.800E-05
2.933E-05
         .000       7.800E-05  5.867E-05   .000       .000       .000       .000       .000       2.533E-05  6.333E-05
1.267E-05
        1.140E-04  3.800E-05  1.707E-04  1.707E-04  1.707E-04  1.707E-04   .000       .000       .000       .000
0 18     .000       .000       .000       .000       7.800E-05  5.867E-05   .000       .000       .000       7.800E-05
9.733E-05
        6.800E-05  9.733E-05  6.800E-05   .000       7.600E-05  8.867E-05  1.013E-04  8.867E-05  6.333E-05  3.800E-05
.000
        2.600E-05   .000       .000       .000       .000       .000       .000       .000       .000       .000
0 19     .000       .000       .000       .000       .000       .000       .000       .000       .000       3.867E-05
8.800E-05
        4.867E-05  1.667E-05   .000       2.533E-05  2.533E-05  2.533E-05   .000       3.800E-05  1.267E-05  1.293E-04
.000
         .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
0 20     .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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         .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
.000
         .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
0 21     .000       .000       .000       .000       .000       .000       .000       5.867E-05  7.800E-05  1.933E-05
.000
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        .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
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        .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
0 22    .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
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        .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
.000
        .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
0
```

37 NUDOS EXTERIORES

0

CAPA	FIL	COL	COTA	CONDUCTANCIA	EXTER. N.
1	17	24	50.00	275.0	1
1	2	32	19.00	290.0	2
1	3	32	19.00	265.0	3
1	4	32	20.00	265.0	4
1	5	32	15.00	300.0	5
1	6	32	11.00	360.0	6
1	7	32	11.00	450.0	7
1	8	32	11.00	420.0	8
1	9	32	8.000	450.0	9
1	10	31	12.00	525.0	10
1	11	30	8.000	850.0	11
1	12	29	14.00	800.0	12
1	13	29	10.00	920.0	13
1	14	28	17.00	900.0	14
1	15	28	16.00	900.0	15
1	17	28	15.00	900.0	16
1	17	27	43.00	730.0	17
1	17	26	45.00	710.0	18
1	17	25	50.00	690.0	19
1	17	22	105.0	677.0	20
1	20	11	370.0	197.0	21
1	19	12	350.0	185.0	22

```
                    1       19      14      200.0           188.0           23
                    1       19      15      200.0           206.0           24
                    1       20      16      190.0           213.0           25
                    1       19      17      180.0           221.0           26
                    1       18      18      160.0           229.0           27
                    1       19      19      150.0           206.0           28
                    1        8      18      200.0           468.0           29
                    1        7      19      190.0           460.0           30
                    1       16      28      15.00           900.0           31
                    1       17      23      70.00           677.0           32
                    1        6      21      160.0           445.0           33
                    1        6      22      140.0           576.0           34
                    1        1      32      19.00           290.0           35
                    1       18      13      260.0           200.0           36
                    1        7      20      135.0           275.0           37
0"SEED" PROM. =  .00255272
 "SEED" MIN.  =  .00083052
0
    5 PARAMETROS ITERACION CALCULADOS DEL  "SEED" PROM.:

            .0000000E+00   .7752235E+00   .9494755E+00   .9886433E+00   .9974473E+00
0
    18 ITERACIONES INTERVALO N.   1 PERIODO EXTRACC.  1
0CAMBIO POT. MAX. PARA CADA ITERACION  :
0 CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO POT.  CAPA,FIL,COL CAMBIO
POT.  CAPA,FIL,COL
 ------------------------------------------------------------------------------------------------------------------
-----------------
   -89.11     (  1, 15,  2)  -30.89     (  1, 12, 14)  -25.97     (  1, 13, 15)  -33.96     (  1, 13, 13)   26.24
(  1, 14, 12)
   -17.13     (  1, 13, 12)   4.654     (  1, 14, 12)   2.357     (  1, 21, 10)   1.660     (  1, 13,  9)  -1.638
(  1, 14, 12)
    .8311     (  1, 14, 12)   .3495     (  1,  7, 26)   .4003     (  1, 13,  8)   .3534     (  1, 15, 14)  -.2875
(  1, 14, 12)
    .2074     (  1, 13, 12)  -.5614E-01 (  1, 14, 12)   .2541E-01 (  1, 19, 17)
```

```
0
0INDIC. IMPRESION COTAS/DESC.= 1      INDICADOR IMPRIMIR BALANCE = 1      INDICADOR FLUJO INTERCELDAS = 1
0INDICADORES SALIDA POR CAPA:
          COTA     DESCENSO  COTA  DESCENSO
  CAPA  IMPRIMIR   IMPRIMIR SALVA   SALVA
 ----------------------------------------
    1       1         0        0       0
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE     1    CAPA  1  FILA  17  COL  24 CAUDAL  -1923.343
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE     2    CAPA  1  FILA   2  COL  32 CAUDAL   68.03402
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE     3    CAPA  1  FILA   3  COL  32 CAUDAL   312.7850
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE     4    CAPA  1  FILA   4  COL  32 CAUDAL   1674.073
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE     5    CAPA  1  FILA   5  COL  32 CAUDAL   676.4348
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE     6    CAPA  1  FILA   6  COL  32 CAUDAL  -1058.156
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE     7    CAPA  1  FILA   7  COL  32 CAUDAL  -1508.460
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE     8    CAPA  1  FILA   8  COL  32 CAUDAL  -1263.362
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE     9    CAPA  1  FILA   9  COL  32 CAUDAL  -2209.424
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    10    CAPA  1  FILA  10  COL  31 CAUDAL  -1723.309
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    11    CAPA  1  FILA  11  COL  30 CAUDAL  -13169.89
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    12    CAPA  1  FILA  12  COL  29 CAUDAL  -16112.92
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    13    CAPA  1  FILA  13  COL  29 CAUDAL  -22867.72
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    14    CAPA  1  FILA  14  COL  28 CAUDAL  -24090.23
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    15    CAPA  1  FILA  15  COL  28 CAUDAL  -24965.91
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    16    CAPA  1  FILA  17  COL  28 CAUDAL  -25311.87
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    17    CAPA  1  FILA  17  COL  27 CAUDAL  -2197.900
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    18    CAPA  1  FILA  17  COL  26 CAUDAL  -3124.405
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    19    CAPA  1  FILA  17  COL  25 CAUDAL  -2241.566
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    20    CAPA  1  FILA  17  COL  22 CAUDAL  -916.1132
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    21    CAPA  1  FILA  20  COL  11 CAUDAL  -14338.70
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    22    CAPA  1  FILA  19  COL  12 CAUDAL  -14163.58
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    23    CAPA  1  FILA  19  COL  14 CAUDAL  -620.1510
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    24    CAPA  1  FILA  19  COL  15 CAUDAL   516.0247
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    25    CAPA  1  FILA  20  COL  16 CAUDAL   33.81427
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    26    CAPA  1  FILA  19  COL  17 CAUDAL  -1170.815
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    27    CAPA  1  FILA  18  COL  18 CAUDAL  -2095.520
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    28    CAPA  1  FILA  19  COL  19 CAUDAL  -1228.575
```

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0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    29    CAPA  1  FILA   8   COL  18 CAUDAL   20130.46
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    30    CAPA  1  FILA   7   COL  19 CAUDAL   16493.66
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    31    CAPA  1  FILA  16   COL  28 CAUDAL  -25616.33
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    32    CAPA  1  FILA  17   COL  23 CAUDAL  -2874.425
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    33    CAPA  1  FILA   6   COL  21 CAUDAL   9253.543
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    34    CAPA  1  FILA   6   COL  22 CAUDAL   3303.255
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    35    CAPA  1  FILA   1   COL  32 CAUDAL   16.01757
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    36    CAPA  1  FILA  18   COL  13 CAUDAL  -5492.749
0NUDOS EXTERIORES  PERIODO  1  INTER  1  LIMITE    37    CAPA  1  FILA   7   COL  20 CAUDAL  -1235.540
1                      COTA  EN CAPA  1 AL FINAL INTERVALO   1 PERIODO EXTRACC.  1
          ----------------------------------------------------------------------

         1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18
19    20
        21    22    23    24    25    26    27    28    29    30    31    32

.....
.....
0  1  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   19.   19.
0  2  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   19.
0  3  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   25.   23.   19.   18.
0  4  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   26.   22.   16.   14.
0  5  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.   27.   23.   15.   13.
0  6  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
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      139.  134. 1000. 1000. 1000. 1000. 1000. 1000.   32.   24.   16.   14.
0  7 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
154.  139.
      130.  121.  115. 1000.   78.   74.   69.   57.   44.   29.   17.   14.
0  8 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.  157.
144.  132.
      121.  112.  106.   96.   85.   78.   68.   50.   32.   22.   16.   14.
0  9 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.  138.
132.  124.
      115.  107.  102.   95.   85.   77.   65.   37.   22.   13.   14.   13.
0 10 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.  135.
129.  121.
      112.  104.   99.   93.   84.   73.   56.   40.   28.   20.   15. 1000.
0 11 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.  161.  155.  144.
133.  122.
      111.  103.   96.   89.   77.   64.   53.   45.   33.   23. 1000. 1000.
0 12 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.  195.  191.  185.  174.  162.  150.
137.  123.
      112.  102.   95.   86.   72.   59.   50.   44.   34. 1000. 1000. 1000.
0 13 1000. 1000. 1000. 1000. 1000. 1000.  427.  420.  411.  401.  374.  295.  204.  196.  189.  179.  166.  153.
139.  125.
      112.  102.   95.   81.   62.   51.   47.   44.   35. 1000. 1000. 1000.
0 14 1000. 1000. 1000. 1000. 1000.  451.  441.  430.  419.  408.  389.  368.  270.  199.  193.  184.  172.  158.
142.  125.
      112.  103.   93.   74.   58.   52.   48.   44. 1000. 1000. 1000. 1000.
0 15 1000.  511.  507.  499.  485.  470.  455.  441.  427.  413.  399.  385.  298.  211.  199.  186.  174.  162.
146.  130.
      117.  108.   91.   67.   56.   51.   47.   44. 1000. 1000. 1000. 1000.
0 16  520.  520.  520.  520.  495.  478.  462.  446.  432.  418.  404.  390.  311.  228.  206.  189.  177.  165.
150.  134.
      120.  110.   87.   63.   54.   50.   47.   43. 1000. 1000. 1000. 1000.
0 17 1000. 1000. 1000.  520.  501.  484.  467.  450.  436.  422.  408.  393.  314.  231.  208.  190.  178.  167.
156.  144.
      131.  106.   74.   57.   53.   49.   46.   43. 1000. 1000. 1000. 1000.
```

```
0 18  1000. 1000. 1000.  520.  507.  494.  480.  464.  446.  431.  419.  391.  287.  217.  202.  189.  180.  169.
160.  153.
       146. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 19  1000. 1000. 1000.  520.  508.  499.  487.  470.  455.  445.  436.  427. 1000.  203.  197.  190.  185. 1000.
156.  155.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 20  1000. 1000. 1000.  520.  512.  503.  488.  473.  461.  451.  443. 1000. 1000. 1000. 1000.  190. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 21  1000. 1000. 1000.  520.  520.  520. 1000.  468.  463.  458. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0 22  1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
1000. 1000.
      1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000. 1000.
0


                 BALANCE GLOBAL PARA TODO EL MODELO --- FINAL INTERVALO  1 PERIODO EXTRACC.  1
                 ----------------------------------------------------------------
0           VOLUMS. ACUMULADOS      L**3                              CAUDALES PROM. INTERVALO
L**3/T
            ------------------                                        -----------------------

                 ENT                                                          ENT
                 ---                                                          ---
             ALMACENAMIENTO =    .00000                                  ALMACENAMIENTO =
.00000
            NUDOS NIV CONST =    .76086E+08                             NUDOS NIV CONST =
.20831E+06
                      POZOS =    .00000                                           POZOS =
.00000
                   RECARGA =    .15147E+08                                      RECARGA =
41471.
```

NUDOS EXTERIORES = .19168E+08 NUDOS EXTERIORES =
52478.
0 ENTRADAS = .11040E+09 ENTRADAS =
.30226E+06
0 SAL: SAL:
---- ----
ALMACENAMIENTO = .00000 ALMACENAMIENTO =
.00000
NUDOS NIV CONST = .00000 NUDOS NIV CONST =
.00000
POZOS = .32377E+08 POZOS =
88644.
RECARGA = .00000 RECARGA =
.00000
NUDOS EXTERIORES = .77989E+08 NUDOS EXTERIORES =
.21352E+06
0 SALIDAS = .11037E+09 SALIDAS =
.30216E+06
0 DIFERENC.= 34576. DIFERENC.=
94.656
0 ERROR PORCENTUAL = .03 ERROR PORCENTUAL =
.03

0

RESUMEN TIEMPOS FINAL INTERVALO 1 PERIODO EXTRACC. 1

	SEGUNDOS	MINUTOS	HORAS	DIAS	AÑOS
DURACION INTERVALO	.315576E+08	525960.	8766.00	365.250	1.00000
TIEMPO PERIOD. EXTRAC	.315576E+08	525960.	8766.00	365.250	1.00000
TIEMPO TOTAL SIMULADO	.315576E+08	525960.	8766.00	365.250	1.00000

1