DRAIN_HIGHK.hob

```
#           CoverageGUID ObjectType ID X Y Time OBNAME
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5774, 221327.2, 326728.0 ts_0
hed1
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5775, 219776.0, 326790.0 ts_0
hed2
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5776, 220131.0, 325400.6 ts_0
hed3
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5777, 220779.0, 324851.0 ts_0
hed4
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5778, 219770.0, 325299.0 ts_0
hed5
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5779, 220383.0, 323927.0 ts_0
hed6
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5780, 220522.0, 325981.0 ts_0
hed7
7 0 6
1.0 1.0
hed1 5 32 73 1 0.0 0.1347586289295 -0.49533529968 3689.73 1.530640358798 1 1
hed2 5 31 40 1 0.0 0.047185929761 -0.250173221704 3698.05 1.530640358798 1 1
hed3 5 55 47 1 0.0 0.4193392881939 0.2459378293005 3696.72 1.530640358798 1 1
hed4 5 65 61 1 0.0 0.060145021455 -0.071020026894 3700.85 1.530640358798 1 1
hed5 5 57 40 1 0.0 0.2015551952144 -0.376868056369 3706.41 1.530640358798 1 1
hed6 5 81 53 1 0.0 0.2684865380731 -0.432879114776 3702.56 1.530640358798 1 1
hed7 5 45 56 1 0.0 0.238255504378 -0.497782111706 3604.85 1.530640358798 1 1
```

```
                                DRAIN_HIGHK.asp
0      0    IPESTINT  INTERP
1     0    0     0.0    NOSTOP HDRYBOT LIMOP MINTHICK
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#NT-1
#12 December 2007
FREE
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HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/ibound2" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/ibound3" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/ibound4" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/ibound5" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/ibound6" 1 0 10000
-999.000000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/StartHead1" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/StartHead2" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/StartHead3" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/StartHead4" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/StartHead5" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/StartHead6" 1 0 10000
```

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#GMS_HDF5_01
752 40
       752         0         0
GMS_HDF5_01 "DRAIN_HIGHK.h5" "Specified Head" 1
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324591.94949304 1.0 no_chdf0
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 11 219594.16804226
323688.6211621 1.0 no_chdf1
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 12 220080.0 323316.0 1.0
no_chdf2
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 2 219501.18238633
328416.68044872 1.0 no_chdf3
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 3 218869.23003934
327810.9157566 1.0 no_chdf4
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 4 219829.5 323290.0 1.0
no_chdf5
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 5 221825.0 326713.0 1.0
no_chdf6
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 6 219619.23539641
324377.97340138 1.0 no_chdf7
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 8 219282.05029394
325848.27101463 1.0 no_chdf8
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 9 220581.52416746
327592.41058298 1.0 no_chdf9
#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 1 221706.7893717
324591.94949304 1.0 no_chdf10
#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 11 219594.16804226
323688.6211621 1.0 no_chdf11
#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 12 220080.0 323316.0 1.0
no_chdf12
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#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 3 218869.23003934
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#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 4 219829.5 323290.0 1.0
no_chdf15
#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 5 221825.0 326713.0 1.0
no_chdf16
#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 6 219619.23539641
324377.97340138 1.0 no_chdf17
#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 8 219282.05029394
325848.27101463 1.0 no_chdf18
#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 9 220581.52416746
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# NLAY NROW NCOL NPER TIMEUNITS LENUNITS
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47.357889655653 47.357889655653 47.357889655653 47.357889655653 47.357889655653
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INTERNAL 1.0 (free) -1
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HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/top1" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/bot1" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/bot2" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/bot3" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/bot4" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/bot5" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/bot6" 1 0 10000
1.0 1 1.0 SS
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GMS_HDF5_01 "DRAIN_HIGHK.h5" "Drain" 1
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1.0 1.0 0
1 432
no_drnf0 1 0.0 1.0 1.0e+019 1 1
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4 74 76 1.0
5 74 76 1.0
2 74 77 1.0
3 74 77 1.0
4 74 77 1.0
5 74 77 1.0
2 74 78 1.0
3 74 78 1.0
4 74 78 1.0
5 74 78 1.0
2 73 78 1.0
3 73 78 1.0
4 73 78 1.0
5 73 78 1.0
2 73 79 1.0
3 73 79 1.0
4 73 79 1.0
5 73 79 1.0
2 73 80 1.0
3 73 80 1.0
4 73 80 1.0
5 73 80 1.0
2 72 80 1.0
3 72 80 1.0
4 72 80 1.0
5 72 80 1.0
2 71 80 1.0
3 71 80 1.0
4 71 80 1.0
5 71 80 1.0
2 70 80 1.0
3 70 80 1.0
4 70 80 1.0
5 70 80 1.0
2 70 81 1.0
3 70 81 1.0
4 70 81 1.0
5 70 81 1.0
2 69 81 1.0
3 69 81 1.0
4 69 81 1.0
5 69 81 1.0
2 68 81 1.0
3 68 81 1.0
4 68 81 1.0
5 68 81 1.0
2 67 81 1.0
3 67 81 1.0
4 67 81 1.0
5 67 81 1.0
2 66 81 1.0
3 66 81 1.0
4 66 81 1.0
5 66 81 1.0
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2 65 81 1.0
3 65 81 1.0
4 65 81 1.0
5 65 81 1.0
2 64 81 1.0
3 64 81 1.0
4 64 81 1.0
5 64 81 1.0
2 63 81 1.0
3 63 81 1.0
4 63 81 1.0
5 63 81 1.0
2 62 81 1.0
3 62 81 1.0
4 62 81 1.0
5 62 81 1.0
2 61 81 1.0
3 61 81 1.0
4 61 81 1.0
5 61 81 1.0
2 60 81 1.0
3 60 81 1.0
4 60 81 1.0
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2 59 81 1.0
3 59 81 1.0
4 59 81 1.0
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2 54 83 1.0
3 54 83 1.0
4 54 83 1.0
5 54 83 1.0
2 53 83 1.0
3 53 83 1.0
4 53 83 1.0
5 53 83 1.0
2 53 84 1.0
3 53 84 1.0
4 53 84 1.0
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5 53 84 1.0
2 53 85 1.0
3 53 85 1.0
4 53 85 1.0
5 53 85 1.0
2 52 85 1.0
3 52 85 1.0
4 52 85 1.0
5 52 85 1.0
2 52 86 1.0
3 52 86 1.0
4 52 86 1.0
5 52 86 1.0
2 51 86 1.0
3 51 86 1.0
4 51 86 1.0
5 51 86 1.0
2 51 87 1.0
3 51 87 1.0
4 51 87 1.0
5 51 87 1.0
2 51 88 1.0
3 51 88 1.0
4 51 88 1.0
5 51 88 1.0
2 50 88 1.0
3 50 88 1.0
4 50 88 1.0
5 50 88 1.0
2 50 89 1.0
3 50 89 1.0
4 50 89 1.0
5 50 89 1.0
2 49 89 1.0
3 49 89 1.0
4 49 89 1.0
5 49 89 1.0
2 49 90 1.0
3 49 90 1.0
4 49 90 1.0
5 49 90 1.0
2 48 90 1.0
3 48 90 1.0
4 48 90 1.0
5 48 90 1.0
2 48 91 1.0
3 48 91 1.0
4 48 91 1.0
5 48 91 1.0
2 48 92 1.0
3 48 92 1.0
4 48 92 1.0
5 48 92 1.0
2 47 92 1.0
3 47 92 1.0
4 47 92 1.0
5 47 92 1.0
2 47 93 1.0
3 47 93 1.0
4 47 93 1.0
5 47 93 1.0
```

```
#GMS_HDF5_01
1 40
1 1 1 1
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "ET/07. Property" 3 0 1 0 10000 0 1
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "ET/07. Property" 3 1 1 0 10000 0 1
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "ET/07. Property" 3 2 1 0 10000 0 1
```

```
#           CoverageGUID ObjectType ID X Y Time OBNAME
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 2 219899.98547031
328399.37538393 1.0 no_ghbf0
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 3 219323.21532894
326636.73976194 1.0 no_ghbf1
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 4 219606.20168673
324019.54638495 1.0 no_ghbf2
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 5 221825.0 326713.0 1.0
no_ghbf3
4 263 4
1.0 1.0 0
1 79
no_ghbf0 1 0.0 1.0 1.0e+019 1 1
5 18 74 1.0
5 18 73 1.0
5 18 72 1.0
5 18 71 1.0
5 18 70 1.0
5 18 69 1.0
5 18 68 1.0
5 18 67 1.0
5 17 67 1.0
5 17 66 1.0
5 17 65 1.0
5 17 64 1.0
5 17 63 1.0
5 17 62 1.0
5 17 61 1.0
5 17 60 1.0
5 17 59 1.0
5 17 58 1.0
5 17 57 1.0
5 17 56 1.0
5 16 56 1.0
5 15 56 1.0
5 14 56 1.0
5 13 56 1.0
5 13 57 1.0
5 12 57 1.0
5 11 57 1.0
5 10 57 1.0
5 9 57 1.0
5 8 57 1.0
5 7 57 1.0
5 6 57 1.0
5 5 57 1.0
5 4 57 1.0
5 3 57 1.0
5 3 56 1.0
5 3 55 1.0
5 3 54 1.0
5 3 53 1.0
5 3 52 1.0
5 3 51 1.0
5 3 50 1.0
5 3 49 1.0
5 3 48 1.0
5 3 47 1.0
5 3 46 1.0
5 3 45 1.0
5 3 44 1.0
5 3 43 1.0
5 3 42 1.0
```

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5 3 41 1.0
5 3 40 1.0
5 3 39 1.0
5 3 38 1.0
5 3 37 1.0
5 3 36 1.0
5 3 35 1.0
5 3 34 1.0
5 2 34 1.0
5 2 33 1.0
5 2 32 1.0
5 2 31 1.0
5 2 30 1.0
5 2 29 1.0
5 2 28 1.0
5 2 27 1.0
5 2 26 1.0
5 2 25 1.0
5 2 24 1.0
5 2 23 1.0
5 2 22 1.0
5 2 21 1.0
5 2 20 1.0
5 2 19 1.0
5 2 18 1.0
5 2 17 1.0
5 2 16 1.0
5 2 15 1.0
5 2 14 1.0
1 83
no_ghbf1 1 0.0 1.0 1.0e+019 1 1
5 66 28 1.0
5 65 28 1.0
5 64 28 1.0
5 63 28 1.0
5 62 28 1.0
5 61 28 1.0
5 61 29 1.0
5 60 29 1.0
5 59 29 1.0
5 58 29 1.0
5 57 29 1.0
5 56 29 1.0
5 55 29 1.0
5 54 29 1.0
5 53 29 1.0
5 52 29 1.0
5 51 29 1.0
5 50 29 1.0
5 49 29 1.0
5 48 29 1.0
5 47 29 1.0
5 46 29 1.0
5 45 29 1.0
5 45 30 1.0
5 44 30 1.0
5 43 30 1.0
5 42 30 1.0
5 41 30 1.0
5 40 30 1.0
5 39 30 1.0
5 38 30 1.0
5 37 30 1.0
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5 36 30 1.0
5 35 30 1.0
5 34 30 1.0
5 33 30 1.0
5 32 30 1.0
5 31 30 1.0
5 30 30 1.0
5 29 30 1.0
5 29 29 1.0
5 28 29 1.0
5 27 29 1.0
5 27 28 1.0
5 26 28 1.0
5 26 27 1.0
5 25 27 1.0
5 24 27 1.0
5 24 26 1.0
5 23 26 1.0
5 22 26 1.0
5 22 25 1.0
5 21 25 1.0
5 20 25 1.0
5 20 24 1.0
5 19 24 1.0
5 18 24 1.0
5 18 23 1.0
5 17 23 1.0
5 17 22 1.0
5 16 22 1.0
5 15 22 1.0
5 15 21 1.0
5 14 21 1.0
5 13 21 1.0
5 13 20 1.0
5 12 20 1.0
5 11 20 1.0
5 11 19 1.0
5 10 19 1.0
5 9 19 1.0
5 9 18 1.0
5 8 18 1.0
5 8 17 1.0
5 7 17 1.0
5 6 17 1.0
5 6 16 1.0
5 5 16 1.0
5 4 16 1.0
5 4 15 1.0
5 3 15 1.0
5 2 15 1.0
5 2 14 1.0
1 52
no_ghbf2 1 0.0 1.0 1.0e+019 1 1
5 97 46 1.0
5 97 45 1.0
5 96 45 1.0
5 96 44 1.0
5 95 44 1.0
5 95 43 1.0
5 94 43 1.0
5 94 42 1.0
5 93 42 1.0
5 93 41 1.0
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5 92 41 1.0
5 92 40 1.0
5 91 40 1.0
5 91 39 1.0
5 90 39 1.0
5 90 38 1.0
5 89 38 1.0
5 89 37 1.0
5 88 37 1.0
5 88 36 1.0
5 87 36 1.0
5 86 36 1.0
5 85 36 1.0
5 84 36 1.0
5 83 36 1.0
5 82 36 1.0
5 81 36 1.0
5 80 36 1.0
5 79 36 1.0
5 78 36 1.0
5 77 36 1.0
5 76 36 1.0
5 75 36 1.0
5 74 36 1.0
5 73 36 1.0
5 72 36 1.0
5 72 37 1.0
5 71 37 1.0
5 70 37 1.0
5 69 37 1.0
5 68 37 1.0
5 67 37 1.0
5 66 37 1.0
5 66 36 1.0
5 66 35 1.0
5 66 34 1.0
5 66 33 1.0
5 66 32 1.0
5 66 31 1.0
5 66 30 1.0
5 66 29 1.0
5 66 28 1.0
1 49
no_ghbf3 1 0.0 1.0 1.0e+019 1 1
5 47 93 1.0
5 47 92 1.0
5 46 92 1.0
5 45 92 1.0
5 45 91 1.0
5 44 91 1.0
5 44 90 1.0
5 43 90 1.0
5 42 90 1.0
5 42 89 1.0
5 41 89 1.0
5 41 88 1.0
5 40 88 1.0
5 39 88 1.0
5 39 87 1.0
5 38 87 1.0
5 38 86 1.0
5 37 86 1.0
5 36 86 1.0
```

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5 36 85 1.0
5 35 85 1.0
5 35 84 1.0
5 34 84 1.0
5 33 84 1.0
5 33 83 1.0
5 32 83 1.0
5 32 82 1.0
5 31 82 1.0
5 30 82 1.0
5 30 81 1.0
5 29 81 1.0
5 29 80 1.0
5 28 80 1.0
5 27 80 1.0
5 27 79 1.0
5 26 79 1.0
5 25 79 1.0
5 25 78 1.0
5 24 78 1.0
5 24 77 1.0
5 23 77 1.0
5 22 77 1.0
5 22 76 1.0
5 21 76 1.0
5 21 75 1.0
5 20 75 1.0
5 19 75 1.0
5 19 74 1.0
5 18 74 1.0
```

```
#GMS_HDF5_01
263 40 AUX IFACE AUX CONDFACT AUX CELLGRP
       263         0         0
GMS_HDF5_01 "DRAIN_HIGHK.h5" "General Head" 1
```

```
                                DRAIN_HIGHK.glo
                               MODFLOW-2000
      U.S. GEOLOGICAL SURVEY MODULAR FINITE-DIFFERENCE GROUND-WATER FLOW MODEL
                         VERSION 1.18.01 06/20/2008


 This model run produced both GLOBAL and LIST files.  This is the GLOBAL file.

 GLOBAL LISTING FILE: "DRAIN_HIGHK.glo"
                         UNIT    1

 OPENING "DRAIN_HIGHK.out"
 FILE TYPE:LIST   UNIT    2   STATUS:REPLACE
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.hed"
 FILE TYPE:DATA(BINARY)   UNIT   30   STATUS:UNKNOWN
 FORMAT:BINARY                 ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.ccf"
 FILE TYPE:DATA(BINARY)   UNIT   40   STATUS:UNKNOWN
 FORMAT:BINARY                 ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.lmt"
 FILE TYPE:LMT6   UNIT   18   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL
#


# Obs-Sen-Pes Process Input Files



 OPENING "DRAIN_HIGHK.obs"
 FILE TYPE:OBS   UNIT   50   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.hob"
 FILE TYPE:HOB   UNIT   51   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.gbob"
 FILE TYPE:GBOB   UNIT   53   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.drob"
 FILE TYPE:DROB   UNIT   54   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.chob"
 FILE TYPE:CHOB   UNIT   55   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.t_snn"
 FILE TYPE:SEN   UNIT   57   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.pes"
 FILE TYPE:PES   UNIT   58   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 FILE TYPE:ASP: FILE = DRAIN_HIGHK.asp
#
```

```
# Global Input Files


 OPENING "DRAIN_HIGHK.dis"
 FILE TYPE:DIS   UNIT   19   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL
#


# Flow Process Input Files


 OPENING "DRAIN_HIGHK.ba6"
 FILE TYPE:BAS6   UNIT    3   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.lpf"
 FILE TYPE:LPF   UNIT    4   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.oc"
 FILE TYPE:OC   UNIT   15   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.rch"
 FILE TYPE:RCH   UNIT   16   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.hfb"
 FILE TYPE:HFB6   UNIT    7   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.wel"
 FILE TYPE:WEL   UNIT    9   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.drn"
 FILE TYPE:DRN   UNIT   10   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.ghb"
 FILE TYPE:GHB   UNIT   11   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.evt"
 FILE TYPE:EVT   UNIT   12   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.chd"
 FILE TYPE:CHD   UNIT   13   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_HIGHK.pcg"
 FILE TYPE:PCG   UNIT   14   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 THE FREE FORMAT OPTION HAS BEEN SELECTED

 DISCRETIZATION INPUT DATA READ FROM UNIT   19
 # MF2K DISCRETIZATION FILE
```

```
#
#
# NLAY NROW NCOL NPER TIMEUNITS LENUNITS
   6 LAYERS       100 ROWS       100 COLUMNS
   1 STRESS PERIOD(S) IN SIMULATION
MODEL TIME UNIT IS DAYS
MODEL LENGTH UNIT IS FEET
THE GROUND-WATER TRANSPORT PROCESS IS INACTIVE

THE OBSERVATION PROCESS IS ACTIVE
THE SENSITIVITY PROCESS IS ACTIVE, BUT ISENALL < 0
THE PARAMETER-ESTIMATION PROCESS IS ACTIVE

MODE: FORWARD WITH OBSERVATIONS AND PARAMETER-VALUE SUBSTITUTION

 Confining bed flag for each layer:
  0   0   0   0   0   0

    540200  ELEMENTS OF GX ARRAY USED OUT OF     540200
     60000  ELEMENTS OF GZ ARRAY USED OUT OF      60000
     60000  ELEMENTS OF IG ARRAY USED OUT OF      60000

-------------------------------------------------------------------------------

VARIABLES READ FROM ASP INPUT FILE:-

NOSTOP = 1          : DO NOT CEASE EXECUTION IF MODFLOW FAILS TO CONVERGE.
HYDRYBOT = 0        : ASSIGN HDRY TO HEAD IN DRY CELL.
MINTHICK =     0.000: DO NOT PREVENT BASAL CELLS DRYING OUT.
LIMOP = 0           : NO LIMITATIONS ON OBSERVATION OR SENSITIVITY OUTPUT.

-------------------------------------------------------------------------------



                                DELR
READING ON UNIT   19 WITH FORMAT: (FREE)



                                DELC
READING ON UNIT   19 WITH FORMAT: (FREE)


STRESS PERIOD     LENGTH       TIME STEPS     MULTIPLIER FOR DELT    SS FLAG
----------------------------------------------------------------------------
       1         1.000000          1                    1.000         SS

STEADY-STATE SIMULATION



LPF1 -- LAYER PROPERTY FLOW PACKAGE, VERSION 1, 1/11/2000
        INPUT READ FROM UNIT    4
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT   40
HEAD AT CELLS THAT CONVERT TO DRY=  -888.00
No named parameters

  LAYER FLAGS:
LAYER       LAYTYP        LAYAVG         CHANI        LAYVKA        LAYWET
--------------------------------------------------------------------------
```

```
   1            1            0    -1.000E+00            1            1
   2            0            0    -1.000E+00            1            0
   3            0            0    -1.000E+00            1            0
   4            0            0    -1.000E+00            1            0
   5            0            0    -1.000E+00            1            0
   6            0            0    -1.000E+00            1            0

  INTERPRETATION OF LAYER FLAGS:
                        INTERBLOCK     HORIZONTAL    DATA IN
        LAYER TYPE   TRANSMISSIVITY   ANISOTROPY   ARRAY VKA   WETTABILITY
 LAYER      (LAYTYP)      (LAYAVG)       (CHANI)      (LAYVKA)      (LAYWET)
 ---------------------------------------------------------------------------
   1   CONVERTIBLE      HARMONIC      VARIABLE    ANISOTROPY      WETTABLE
   2      CONFINED      HARMONIC      VARIABLE    ANISOTROPY  NON-WETTABLE
   3      CONFINED      HARMONIC      VARIABLE    ANISOTROPY  NON-WETTABLE
   4      CONFINED      HARMONIC      VARIABLE    ANISOTROPY  NON-WETTABLE
   5      CONFINED      HARMONIC      VARIABLE    ANISOTROPY  NON-WETTABLE
   6      CONFINED      HARMONIC      VARIABLE    ANISOTROPY  NON-WETTABLE

    240000 ELEMENTS IN X ARRAY ARE USED BY LPF
        36 ELEMENTS IN IX ARRAY ARE USED BY LPF

 PCG2 -- CONJUGATE GRADIENT SOLUTION PACKAGE, VERSION 2.4, 12/29/98
 MAXIMUM OF     25 CALLS OF SOLUTION ROUTINE
 MAXIMUM OF     50 INTERNAL ITERATIONS PER CALL TO SOLUTION ROUTINE
 MATRIX PRECONDITIONING TYPE :    1
    122500 ELEMENTS IN X ARRAY ARE USED BY PCG
      8750 ELEMENTS IN IX ARRAY ARE USED BY PCG
    240000 ELEMENTS IN Z ARRAY ARE USED BY PCG

 SEN1BAS6 -- SENSITIVITY PROCESS, VERSION 1.0, 10/15/98
 INPUT READ FROM UNIT   57

 NUMBER OF PARAMETER VALUES TO BE READ FROM SEN FILE:    3
 ISENALL.............................................:   -1
 SENSITIVITY PROCESS HAS BEEN DEACTIVATED BECAUSE ISENALL<0
 PARAMETER-ESTIMATION PROCESS HAS BEEN DEACTIVATED BECAUSE ISENALL<0

     60022 ELEMENTS IN X ARRAY ARE USED FOR SENSITIVITIES
     60000 ELEMENTS IN Z ARRAY ARE USED FOR SENSITIVITIES
         6 ELEMENTS IN IX ARRAY ARE USED FOR SENSITIVITIES

 OBS1BAS6 -- OBSERVATION PROCESS, VERSION 1.0, 4/27/99
 INPUT READ FROM UNIT  50
 OBSERVATION GRAPH-DATA OUTPUT FILES
 WILL BE PRINTED AND NAMED USING THE BASE: DRAIN_HIGHK

 HEAD OBSERVATIONS -- INPUT READ FROM UNIT  51
 #           CoverageGUID ObjectType ID X Y Time OBNAME
 #GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5774, 221327.2, 326728.0
ts_0 hed1
 #GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5775, 219776.0, 326790.0
ts_0 hed2
 #GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5776, 220131.0, 325400.6
ts_0 hed3
 #GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5777, 220779.0, 324851.0
ts_0 hed4
 #GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5778, 219770.0, 325299.0
ts_0 hed5
 #GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5779, 220383.0, 323927.0
ts_0 hed6
 #GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5780, 220522.0, 325981.0
ts_0 hed7
```

```
 NUMBER OF HEADS.....................................:    7
   NUMBER OF MULTILAYER HEADS........................:    0
   MAXIMUM NUMBER OF LAYERS FOR MULTILAYER HEADS....:    6

 OBS1DRN6 -- OBSERVATION PROCESS (DRAIN FLOW OBSERVATIONS)
 VERSION 1.0, 10/15/98
 INPUT READ FROM UNIT   54
 #           CoverageGUID ObjectType ID X Y Time OBNAME
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 1 221620.32472546
324401.08427563 1.0 no_drnf0

 NUMBER OF FLOW-OBSERVATION DRAIN-CELL GROUPS.....:      1
   NUMBER OF CELLS IN DRAIN-CELL GROUPS...........:    432
   NUMBER OF DRAIN-CELL FLOWS.....................:      1

 OBS1GHB6 -- OBSERVATION PROCESS (GENERAL HEAD BOUNDARY FLOW OBSERVATIONS)
 VERSION 1.0, 10/15/98
 INPUT READ FROM UNIT   53
 #           CoverageGUID ObjectType ID X Y Time OBNAME
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 2 219899.98547031
328399.37538393 1.0 no_ghbf0
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 3 219323.21532894
326636.73976194 1.0 no_ghbf1
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 4 219606.20168673
324019.54638495 1.0 no_ghbf2
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 5 221825.0 326713.0 1.0
no_ghbf3

 NUMBER OF FLOW-OBSERVATION GENERAL-HEAD-CELL GROUPS:      4
   NUMBER OF CELLS IN GENERAL-HEAD-CELL GROUPS......:    263
   NUMBER OF GENERAL-HEAD-CELL FLOWS................:      4

 OBS1BAS6F -- OBSERVATION PROCESS (CONSTANT-HEAD BOUNDARY FLOW OBSERVATIONS)
 VERSION 1.0, 12/03/99
 INPUT READ FROM UNIT  55
 #           CoverageGUID ObjectType ID X Y Time OBNAME
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 1 221706.7893717
324591.94949304 1.0 no_chdf0
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 11 219594.16804226
323688.6211621 1.0 no_chdf1
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 12 220080.0 323316.0 1.0
no_chdf2
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 2 219501.18238633
328416.68044872 1.0 no_chdf3
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 3 218869.23003934
327810.9157566 1.0 no_chdf4
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 4 219829.5 323290.0 1.0
no_chdf5
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 5 221825.0 326713.0 1.0
no_chdf6
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 6 219619.23539641
324377.97340138 1.0 no_chdf7
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 8 219282.05029394
325848.27101463 1.0 no_chdf8
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 9 220581.52416746
327592.41058298 1.0 no_chdf9
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 1 221706.7893717
324591.94949304 1.0 no_chdf10
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 11 219594.16804226
323688.6211621 1.0 no_chdf11
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 12 220080.0 323316.0 1.0
no_chdf12
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 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 2 219501.18238633
328416.68044872 1.0 no_chdf13
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327810.9157566 1.0 no_chdf14
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 4 219829.5 323290.0 1.0
no_chdf15
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 5 221825.0 326713.0 1.0
no_chdf16
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 6 219619.23539641
324377.97340138 1.0 no_chdf17
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 8 219282.05029394
325848.27101463 1.0 no_chdf18
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 9 220581.52416746
327592.41058298 1.0 no_chdf19

 NUMBER OF FLOW-OBSERVATION CONSTANT-HEAD-CELL GROUPS:   20
   NUMBER OF CELLS IN CONSTANT-HEAD-CELL GROUPS......:  752
   NUMBER OF CONSTANT-HEAD-CELL FLOWS................:   20

       9178 ELEMENTS IN X ARRAY ARE USED FOR OBSERVATIONS
        702 ELEMENTS IN Z ARRAY ARE USED FOR OBSERVATIONS
        273 ELEMENTS IN IX ARRAY ARE USED FOR OBSERVATIONS

 COMMON ERROR VARIANCE FOR ALL OBSERVATIONS SET TO:       1.000

     431700  ELEMENTS OF X ARRAY USED OUT OF     431700
     300702  ELEMENTS OF Z ARRAY USED OUT OF     300702
       9065  ELEMENTS OF IX ARRAY USED OUT OF       9065
          0  ELEMENTS OF XHS ARRAY USED OUT OF          1

 INFORMATION ON PARAMETERS LISTED IN SEN FILE
                                          LOWER         UPPER       ALTERNATE
                        VALUE IN SEN   REASONABLE    REASONABLE     SCALING
    NAME     ISENS  LN   INPUT FILE      LIMIT         LIMIT         FACTOR
 ----------  -----  --  ------------  ------------  ------------  ------------
 HK_800        1     1   0.13479       0.10000E-02    20.000        1.0000
 GHB_300       1     0    45.805       0.10000E-02    1000.0        1.0000
 GHB_400       1     0    56.493       0.10000E-02    1000.0        1.0000
 ---------------------------------------------------------------------------
 FOR THE PARAMETERS LISTED IN THE TABLE ABOVE, PARAMETER VALUES IN INDIVIDUAL
 PACKAGE INPUT FILES ARE REPLACED BY THE VALUES FROM THE SEN INPUT FILE.  THE
 ALTERNATE SCALING FACTOR IS USED TO SCALE SENSITIVITIES IF IT IS LARGER THAN
 THE PARAMETER VALUE IN ABSOLUTE VALUE AND THE PARAMETER IS NOT LOG-TRANSFORMED.

 BECAUSE ISENALL < 0, ALL ISENS ARE SET TO 0

 HEAD OBSERVATION VARIANCES ARE MULTIPLIED BY:       1.000

 OBSERVED HEAD DATA -- TIME OFFSETS ARE MULTIPLIED BY:   1.0000

                   REFER.
      OBSERVATION  STRESS    TIME                                STATISTIC   PLOT
 OBS#    NAME      PERIOD   OFFSET    OBSERVATION  STATISTIC      TYPE      SYM.
    1 hed1            1    0.000       3690.       1.531      STD. DEV.      1
    2 hed2            1    0.000       3698.       1.531      STD. DEV.      1
    3 hed3            1    0.000       3697.       1.531      STD. DEV.      1
    4 hed4            1    0.000       3701.       1.531      STD. DEV.      1
    5 hed5            1    0.000       3706.       1.531      STD. DEV.      1
    6 hed6            1    0.000       3703.       1.531      STD. DEV.      1
    7 hed7            1    0.000       3605.       1.531      STD. DEV.      1

                                                  HEAD CHANGE
                                                   REFERENCE
```

OBS#	OBSERVATION NAME	LAY	ROW	COL	ROW OFFSET	COL OFFSET	OBSERVATION (IF > 0)
1	hed1	5	32	73	0.135	-0.495	0
2	hed2	5	31	40	0.047	-0.250	0
3	hed3	5	55	47	0.419	0.246	0
4	hed4	5	65	61	0.060	-0.071	0
5	hed5	5	57	40	0.202	-0.377	0
6	hed6	5	81	53	0.268	-0.433	0
7	hed7	5	45	56	0.238	-0.498	0

DRAIN-CELL FLOW OBSERVATION VARIANCES ARE MULTIPLIED BY: 1.000

OBSERVED DRAIN-CELL FLOW DATA
-- TIME OFFSETS ARE MULTIPLIED BY: 1.0000

GROUP NUMBER: 1 BOUNDARY TYPE: DRN NUMBER OF CELLS IN GROUP: 432
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED DRAIN FLOW GAIN (-)	STATISTIC	STATISTIC TYPE	PLOT SYM.
8	no_drnf0	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
2.	97.	46.	1.00
3.	97.	46.	1.00
4.	97.	46.	1.00
5.	97.	46.	1.00
2.	96.	46.	1.00
3.	96.	46.	1.00
4.	96.	46.	1.00
5.	96.	46.	1.00
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3.	90.	46.	1.00
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3.	88.	46.	1.00
4.	88.	46.	1.00

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         4.   47.    92.     1.00
         5.   47.    92.     1.00
         2.   47.    93.     1.00
         3.   47.    93.     1.00
         4.   47.    93.     1.00
         5.   47.    93.     1.00

GENERAL-HEAD-CELL FLOW OBSERVATION VARIANCES ARE MULTIPLIED BY:       1.000

OBSERVED GENERAL-HEAD-CELL FLOW DATA
-- TIME OFFSETS ARE MULTIPLIED BY:   1.0000

  GROUP NUMBER:      2   BOUNDARY TYPE: GHB   NUMBER OF CELLS IN GROUP:     79
  NUMBER OF FLOW OBSERVATIONS:      1

                                          OBSERVED
                   REFER.               BOUNDARY FLOW
      OBSERVATION  STRESS    TIME       GAIN (-) OR                STATISTIC   PLOT
 OBS#    NAME      PERIOD   OFFSET       LOSS (+)    STATISTIC      TYPE      SYM.
    9 no_ghbf0         1    0.000        1.000      0.1000E+20  STD. DEV.      1

      LAYER  ROW  COLUMN    FACTOR
         5.   18.    74.     1.00
         5.   18.    73.     1.00
         5.   18.    72.     1.00
         5.   18.    71.     1.00
         5.   18.    70.     1.00
         5.   18.    69.     1.00
         5.   18.    68.     1.00
         5.   18.    67.     1.00
         5.   17.    67.     1.00
         5.   17.    66.     1.00
         5.   17.    65.     1.00
         5.   17.    64.     1.00
         5.   17.    63.     1.00
         5.   17.    62.     1.00
         5.   17.    61.     1.00
         5.   17.    60.     1.00
         5.   17.    59.     1.00
         5.   17.    58.     1.00
         5.   17.    57.     1.00
         5.   17.    56.     1.00
         5.   16.    56.     1.00
         5.   15.    56.     1.00
         5.   14.    56.     1.00
         5.   13.    56.     1.00
         5.   13.    57.     1.00
         5.   12.    57.     1.00
         5.   11.    57.     1.00
         5.   10.    57.     1.00
         5.    9.    57.     1.00
         5.    8.    57.     1.00
         5.    7.    57.     1.00
         5.    6.    57.     1.00
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         5.    5.    57.     1.00
         5.    4.    57.     1.00
         5.    3.    57.     1.00
         5.    3.    56.     1.00
         5.    3.    55.     1.00
         5.    3.    54.     1.00
         5.    3.    53.     1.00
         5.    3.    52.     1.00
         5.    3.    51.     1.00
         5.    3.    50.     1.00
         5.    3.    49.     1.00
         5.    3.    48.     1.00
         5.    3.    47.     1.00
         5.    3.    46.     1.00
         5.    3.    45.     1.00
         5.    3.    44.     1.00
         5.    3.    43.     1.00
         5.    3.    42.     1.00
         5.    3.    41.     1.00
         5.    3.    40.     1.00
         5.    3.    39.     1.00
         5.    3.    38.     1.00
         5.    3.    37.     1.00
         5.    3.    36.     1.00
         5.    3.    35.     1.00
         5.    3.    34.     1.00
         5.    2.    34.     1.00
         5.    2.    33.     1.00
         5.    2.    32.     1.00
         5.    2.    31.     1.00
         5.    2.    30.     1.00
         5.    2.    29.     1.00
         5.    2.    28.     1.00
         5.    2.    27.     1.00
         5.    2.    26.     1.00
         5.    2.    25.     1.00
         5.    2.    24.     1.00
         5.    2.    23.     1.00
         5.    2.    22.     1.00
         5.    2.    21.     1.00
         5.    2.    20.     1.00
         5.    2.    19.     1.00
         5.    2.    18.     1.00
         5.    2.    17.     1.00
         5.    2.    16.     1.00
         5.    2.    15.     1.00
         5.    2.    14.     1.00

 GROUP NUMBER:      3   BOUNDARY TYPE: GHB   NUMBER OF CELLS IN GROUP:     83
 NUMBER OF FLOW OBSERVATIONS:      1

                                          OBSERVED
                     REFER.             BOUNDARY FLOW
     OBSERVATION  STRESS    TIME     GAIN (-) OR              STATISTIC   PLOT
OBS#    NAME      PERIOD   OFFSET     LOSS (+)    STATISTIC     TYPE      SYM.
  10 no_ghbf1         1    0.000       1.000      0.1000E+20  STD. DEV.     1

     LAYER  ROW  COLUMN    FACTOR
         5.   66.    28.     1.00
         5.   65.    28.     1.00
         5.   64.    28.     1.00
         5.   63.    28.     1.00
         5.   62.    28.     1.00
```

5.	61.	28.	1.00
5.	61.	29.	1.00
5.	60.	29.	1.00
5.	59.	29.	1.00
5.	58.	29.	1.00
5.	57.	29.	1.00
5.	56.	29.	1.00
5.	55.	29.	1.00
5.	54.	29.	1.00
5.	53.	29.	1.00
5.	52.	29.	1.00
5.	51.	29.	1.00
5.	50.	29.	1.00
5.	49.	29.	1.00
5.	48.	29.	1.00
5.	47.	29.	1.00
5.	46.	29.	1.00
5.	45.	29.	1.00
5.	45.	30.	1.00
5.	44.	30.	1.00
5.	43.	30.	1.00
5.	42.	30.	1.00
5.	41.	30.	1.00
5.	40.	30.	1.00
5.	39.	30.	1.00
5.	38.	30.	1.00
5.	37.	30.	1.00
5.	36.	30.	1.00
5.	35.	30.	1.00
5.	34.	30.	1.00
5.	33.	30.	1.00
5.	32.	30.	1.00
5.	31.	30.	1.00
5.	30.	30.	1.00
5.	29.	30.	1.00
5.	29.	29.	1.00
5.	28.	29.	1.00
5.	27.	29.	1.00
5.	27.	28.	1.00
5.	26.	28.	1.00
5.	26.	27.	1.00
5.	25.	27.	1.00
5.	24.	27.	1.00
5.	24.	26.	1.00
5.	23.	26.	1.00
5.	22.	26.	1.00
5.	22.	25.	1.00
5.	21.	25.	1.00
5.	20.	25.	1.00
5.	20.	24.	1.00
5.	19.	24.	1.00
5.	18.	24.	1.00
5.	18.	23.	1.00
5.	17.	23.	1.00
5.	17.	22.	1.00
5.	16.	22.	1.00
5.	15.	22.	1.00
5.	15.	21.	1.00
5.	14.	21.	1.00
5.	13.	21.	1.00
5.	13.	20.	1.00
5.	12.	20.	1.00
5.	11.	20.	1.00

5.	11.	19.	1.00
5.	10.	19.	1.00
5.	9.	19.	1.00
5.	9.	18.	1.00
5.	8.	18.	1.00
5.	8.	17.	1.00
5.	7.	17.	1.00
5.	6.	17.	1.00
5.	6.	16.	1.00
5.	5.	16.	1.00
5.	4.	16.	1.00
5.	4.	15.	1.00
5.	3.	15.	1.00
5.	2.	15.	1.00
5.	2.	14.	1.00

GROUP NUMBER: 4 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP: 52
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
11	no_ghbf2	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
5.	97.	46.	1.00
5.	97.	45.	1.00
5.	96.	45.	1.00
5.	96.	44.	1.00
5.	95.	44.	1.00
5.	95.	43.	1.00
5.	94.	43.	1.00
5.	94.	42.	1.00
5.	93.	42.	1.00
5.	93.	41.	1.00
5.	92.	41.	1.00
5.	92.	40.	1.00
5.	91.	40.	1.00
5.	91.	39.	1.00
5.	90.	39.	1.00
5.	90.	38.	1.00
5.	89.	38.	1.00
5.	89.	37.	1.00
5.	88.	37.	1.00
5.	88.	36.	1.00
5.	87.	36.	1.00
5.	86.	36.	1.00
5.	85.	36.	1.00
5.	84.	36.	1.00
5.	83.	36.	1.00
5.	82.	36.	1.00
5.	81.	36.	1.00
5.	80.	36.	1.00
5.	79.	36.	1.00
5.	78.	36.	1.00
5.	77.	36.	1.00
5.	76.	36.	1.00
5.	75.	36.	1.00
5.	74.	36.	1.00
5.	73.	36.	1.00
5.	72.	36.	1.00
5.	72.	37.	1.00

5.	71.	37.	1.00
5.	70.	37.	1.00
5.	69.	37.	1.00
5.	68.	37.	1.00
5.	67.	37.	1.00
5.	66.	37.	1.00
5.	66.	36.	1.00
5.	66.	35.	1.00
5.	66.	34.	1.00
5.	66.	33.	1.00
5.	66.	32.	1.00
5.	66.	31.	1.00
5.	66.	30.	1.00
5.	66.	29.	1.00
5.	66.	28.	1.00

GROUP NUMBER: 5 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP: 49
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
12	no_ghbf3	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
5.	47.	93.	1.00
5.	47.	92.	1.00
5.	46.	92.	1.00
5.	45.	92.	1.00
5.	45.	91.	1.00
5.	44.	91.	1.00
5.	44.	90.	1.00
5.	43.	90.	1.00
5.	42.	90.	1.00
5.	42.	89.	1.00
5.	41.	89.	1.00
5.	41.	88.	1.00
5.	40.	88.	1.00
5.	39.	88.	1.00
5.	39.	87.	1.00
5.	38.	87.	1.00
5.	38.	86.	1.00
5.	37.	86.	1.00
5.	36.	86.	1.00
5.	36.	85.	1.00
5.	35.	85.	1.00
5.	35.	84.	1.00
5.	34.	84.	1.00
5.	33.	84.	1.00
5.	33.	83.	1.00
5.	32.	83.	1.00
5.	32.	82.	1.00
5.	31.	82.	1.00
5.	30.	82.	1.00
5.	30.	81.	1.00
5.	29.	81.	1.00
5.	29.	80.	1.00
5.	28.	80.	1.00
5.	27.	80.	1.00
5.	27.	79.	1.00
5.	26.	79.	1.00
5.	25.	79.	1.00

```
         5.   25.    78.     1.00
         5.   24.    78.     1.00
         5.   24.    77.     1.00
         5.   23.    77.     1.00
         5.   22.    77.     1.00
         5.   22.    76.     1.00
         5.   21.    76.     1.00
         5.   21.    75.     1.00
         5.   20.    75.     1.00
         5.   19.    75.     1.00
         5.   19.    74.     1.00
         5.   18.    74.     1.00

CONSTANT-HEAD-CELL FLOW OBSERVATION VARIANCES ARE MULTIPLIED BY:       1.000

OBSERVED CONSTANT-HEAD-CELL FLOW DATA
-- TIME OFFSETS ARE MULTIPLIED BY:   1.0000

  GROUP NUMBER:   6   BOUNDARY TYPE: CHD   NUMBER OF CELLS IN GROUP:    98
  NUMBER OF FLOW OBSERVATIONS:     1

                                          OBSERVED
                   REFER.              BOUNDARY FLOW
      OBSERVATION  STRESS    TIME      GAIN (-) OR                STATISTIC   PLOT
 OBS#    NAME      PERIOD   OFFSET      LOSS (+)     STATISTIC     TYPE      SYM.
   13 no_chdf0         1    0.000        1.000      0.1000E+20  STD. DEV.      1

      LAYER  ROW  COLUMN    FACTOR
         1.   47.    93.     0.19
         1.   47.    92.     0.31
         1.   48.    92.     0.50
         1.   48.    91.     0.50
         1.   48.    90.     0.50
         1.   49.    90.     0.50
         1.   49.    89.     0.50
         1.   50.    89.     0.50
         1.   50.    88.     0.50
         1.   51.    88.     0.50
         1.   51.    87.     0.50
         1.   51.    86.     0.50
         1.   52.    86.     0.50
         1.   52.    85.     0.50
         1.   53.    85.     0.50
         1.   53.    84.     0.50
         1.   53.    83.     0.50
         1.   54.    83.     0.50
         1.   54.    82.     0.50
         1.   55.    82.     0.50
         1.   55.    81.     0.50
         1.   56.    81.     0.50
         1.   57.    81.     0.50
         1.   58.    81.     0.50
         1.   59.    81.     0.50
         1.   60.    81.     0.50
         1.   61.    81.     0.50
         1.   62.    81.     0.50
         1.   63.    81.     0.50
         1.   64.    81.     0.50
         1.   65.    81.     0.50
         1.   66.    81.     0.50
         1.   67.    81.     0.50
         1.   68.    81.     0.50
         1.   69.    81.     0.50
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1.	70.	81.	0.50
1.	70.	80.	0.50
1.	71.	80.	0.50
1.	72.	80.	0.50
1.	73.	80.	0.50
1.	73.	79.	0.50
1.	73.	78.	0.50
1.	74.	78.	0.50
1.	74.	77.	0.50
1.	74.	76.	0.50
1.	74.	75.	0.50
1.	75.	75.	0.50
1.	75.	74.	0.50
1.	75.	73.	0.50
1.	76.	73.	0.50
1.	76.	72.	0.50
1.	76.	71.	0.50
1.	77.	71.	0.50
1.	77.	70.	0.50
1.	77.	69.	0.50
1.	77.	68.	0.50
1.	77.	67.	0.50
1.	76.	67.	0.50
1.	76.	66.	0.50
1.	75.	66.	0.50
1.	75.	65.	0.50
1.	74.	65.	0.50
1.	73.	65.	0.50
1.	73.	64.	0.50
1.	72.	64.	0.50
1.	72.	63.	0.50
1.	72.	62.	0.50
1.	73.	62.	0.50
1.	73.	61.	0.50
1.	74.	61.	0.50
1.	75.	61.	0.50
1.	76.	61.	0.50
1.	76.	60.	0.50
1.	77.	60.	0.50
1.	78.	60.	0.50
1.	78.	59.	0.50
1.	79.	59.	0.50
1.	80.	59.	0.50
1.	81.	59.	0.50
1.	81.	58.	0.50
1.	82.	58.	0.50
1.	83.	58.	0.50
1.	83.	57.	0.50
1.	84.	57.	0.50
1.	84.	56.	0.50
1.	84.	55.	0.50
1.	85.	55.	0.50
1.	85.	54.	0.50
1.	85.	53.	0.50
1.	85.	52.	0.50
1.	85.	51.	0.50
1.	86.	51.	0.50
1.	86.	50.	0.50
1.	86.	49.	0.50
1.	86.	48.	0.50
1.	86.	47.	0.50
1.	87.	47.	0.50
1.	87.	46.	0.04

```
 GROUP NUMBER:   7   BOUNDARY TYPE: CHD   NUMBER OF CELLS IN GROUP:     5
 NUMBER OF FLOW OBSERVATIONS:     1

                                        OBSERVED
                   REFER.             BOUNDARY FLOW
     OBSERVATION   STRESS    TIME      GAIN (-) OR                STATISTIC   PLOT
OBS#    NAME       PERIOD   OFFSET      LOSS (+)    STATISTIC      TYPE      SYM.
  14 no_chdf1          1    0.000        1.000      0.1000E+20  STD. DEV.      1

     LAYER  ROW  COLUMN    FACTOR
        1.   83.    36.     0.03
        1.   84.    36.     0.51
        1.   85.    36.     0.51
        1.   86.    36.     0.51
        1.   87.    36.     0.48

 GROUP NUMBER:   8   BOUNDARY TYPE: CHD   NUMBER OF CELLS IN GROUP:    11
 NUMBER OF FLOW OBSERVATIONS:     1

                                        OBSERVED
                   REFER.             BOUNDARY FLOW
     OBSERVATION   STRESS    TIME      GAIN (-) OR                STATISTIC   PLOT
OBS#    NAME       PERIOD   OFFSET      LOSS (+)    STATISTIC      TYPE      SYM.
  15 no_chdf2          1    0.000        1.000      0.1000E+20  STD. DEV.      1

     LAYER  ROW  COLUMN    FACTOR
        1.   87.    46.     0.46
        1.   88.    46.     0.50
        1.   89.    46.     0.50
        1.   90.    46.     0.50
        1.   91.    46.     0.50
        1.   92.    46.     0.50
        1.   93.    46.     0.50
        1.   94.    46.     0.50
        1.   95.    46.     0.50
        1.   96.    46.     0.50
        1.   97.    46.     0.31

 GROUP NUMBER:   9   BOUNDARY TYPE: CHD   NUMBER OF CELLS IN GROUP:    42
 NUMBER OF FLOW OBSERVATIONS:     1

                                        OBSERVED
                   REFER.             BOUNDARY FLOW
     OBSERVATION   STRESS    TIME      GAIN (-) OR                STATISTIC   PLOT
OBS#    NAME       PERIOD   OFFSET      LOSS (+)    STATISTIC      TYPE      SYM.
  16 no_chdf3          1    0.000        1.000      0.1000E+20  STD. DEV.      1

     LAYER  ROW  COLUMN    FACTOR
        1.    2.    14.     0.15
        1.    2.    15.     0.33
        1.    2.    16.     0.50
        1.    2.    17.     0.50
        1.    2.    18.     0.50
        1.    2.    19.     0.50
        1.    2.    20.     0.50
        1.    2.    21.     0.50
        1.    2.    22.     0.50
        1.    2.    23.     0.50
        1.    2.    24.     0.50
        1.    2.    25.     0.50
        1.    2.    26.     0.50
        1.    2.    27.     0.50
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1.	2.	28.	0.50
1.	2.	29.	0.50
1.	2.	30.	0.50
1.	2.	31.	0.50
1.	2.	32.	0.50
1.	2.	33.	0.50
1.	2.	34.	0.50
1.	3.	34.	0.50
1.	3.	35.	0.50
1.	3.	36.	0.50
1.	3.	37.	0.50
1.	3.	38.	0.50
1.	3.	39.	0.50
1.	3.	40.	0.50
1.	3.	41.	0.50
1.	3.	42.	0.50
1.	3.	43.	0.50
1.	3.	44.	0.50
1.	3.	45.	0.50
1.	3.	46.	0.50
1.	3.	47.	0.50
1.	3.	48.	0.50
1.	3.	49.	0.50
1.	3.	50.	0.50
1.	3.	51.	0.50
1.	3.	52.	0.50
1.	3.	53.	0.50
1.	3.	54.	0.03

GROUP NUMBER: 10 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 36
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
17	no_chdf4	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	2.	14.	0.35
1.	2.	15.	0.17
1.	3.	15.	0.50
1.	4.	15.	0.50
1.	4.	16.	0.50
1.	5.	16.	0.50
1.	6.	16.	0.50
1.	6.	17.	0.50
1.	7.	17.	0.50
1.	8.	17.	0.50
1.	8.	18.	0.50
1.	9.	18.	0.50
1.	9.	19.	0.50
1.	10.	19.	0.50
1.	11.	19.	0.50
1.	11.	20.	0.50
1.	12.	20.	0.50
1.	13.	20.	0.50
1.	13.	21.	0.50
1.	14.	21.	0.50
1.	15.	21.	0.50
1.	15.	22.	0.50
1.	16.	22.	0.50
1.	17.	22.	0.50

```
        1.   17.    23.     0.50
        1.   18.    23.     0.50
        1.   18.    24.     0.50
        1.   19.    24.     0.50
        1.   20.    24.     0.50
        1.   20.    25.     0.50
        1.   21.    25.     0.50
        1.   22.    25.     0.50
        1.   22.    26.     0.50
        1.   23.    26.     0.50
        1.   24.    26.     0.50
        1.   24.    27.     0.48

 GROUP NUMBER:  11   BOUNDARY TYPE: CHD   NUMBER OF CELLS IN GROUP:    21
 NUMBER OF FLOW OBSERVATIONS:     1

                                   OBSERVED
                   REFER.        BOUNDARY FLOW
    OBSERVATION  STRESS    TIME    GAIN (-) OR              STATISTIC   PLOT
OBS#    NAME      PERIOD   OFFSET    LOSS (+)    STATISTIC     TYPE      SYM.
  18 no_chdf5         1    0.000      1.000      0.1000E+20  STD. DEV.      1

    LAYER  ROW  COLUMN    FACTOR
        1.   87.    36.     0.03
        1.   88.    36.     0.51
        1.   88.    37.     0.51
        1.   89.    37.     0.50
        1.   89.    38.     0.50
        1.   90.    38.     0.50
        1.   90.    39.     0.50
        1.   91.    39.     0.50
        1.   91.    40.     0.50
        1.   92.    40.     0.50
        1.   92.    41.     0.50
        1.   93.    41.     0.50
        1.   93.    42.     0.50
        1.   94.    42.     0.50
        1.   94.    43.     0.50
        1.   95.    43.     0.50
        1.   95.    44.     0.50
        1.   96.    44.     0.50
        1.   96.    45.     0.50
        1.   97.    45.     0.50
        1.   97.    46.     0.19

 GROUP NUMBER:  12   BOUNDARY TYPE: CHD   NUMBER OF CELLS IN GROUP:    49
 NUMBER OF FLOW OBSERVATIONS:     1

                                   OBSERVED
                   REFER.        BOUNDARY FLOW
    OBSERVATION  STRESS    TIME    GAIN (-) OR              STATISTIC   PLOT
OBS#    NAME      PERIOD   OFFSET    LOSS (+)    STATISTIC     TYPE      SYM.
  19 no_chdf6         1    0.000      1.000      0.1000E+20  STD. DEV.      1

    LAYER  ROW  COLUMN    FACTOR
        1.   18.    74.     0.49
        1.   19.    74.     0.50
        1.   19.    75.     0.50
        1.   20.    75.     0.50
        1.   21.    75.     0.50
        1.   21.    76.     0.50
        1.   22.    76.     0.50
        1.   22.    77.     0.50
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1.	23.	77.	0.50
1.	24.	77.	0.50
1.	24.	78.	0.50
1.	25.	78.	0.50
1.	25.	79.	0.50
1.	26.	79.	0.50
1.	27.	79.	0.50
1.	27.	80.	0.50
1.	28.	80.	0.50
1.	29.	80.	0.50
1.	29.	81.	0.50
1.	30.	81.	0.50
1.	30.	82.	0.50
1.	31.	82.	0.50
1.	32.	82.	0.50
1.	32.	83.	0.50
1.	33.	83.	0.50
1.	33.	84.	0.50
1.	34.	84.	0.50
1.	35.	84.	0.50
1.	35.	85.	0.50
1.	36.	85.	0.50
1.	36.	86.	0.50
1.	37.	86.	0.50
1.	38.	86.	0.50
1.	38.	87.	0.50
1.	39.	87.	0.50
1.	39.	88.	0.50
1.	40.	88.	0.50
1.	41.	88.	0.50
1.	41.	89.	0.50
1.	42.	89.	0.50
1.	42.	90.	0.50
1.	43.	90.	0.50
1.	44.	90.	0.50
1.	44.	91.	0.50
1.	45.	91.	0.50
1.	45.	92.	0.50
1.	46.	92.	0.50
1.	47.	92.	0.19
1.	47.	93.	0.30

GROUP NUMBER: 13 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 28
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
20	no_chdf7	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	66.	28.	0.27
1.	66.	29.	0.50
1.	66.	30.	0.50
1.	66.	31.	0.50
1.	66.	32.	0.50
1.	66.	33.	0.50
1.	66.	34.	0.50
1.	66.	35.	0.50
1.	66.	36.	0.50
1.	66.	37.	0.50
1.	67.	37.	0.50

1.	68.	37.	0.50
1.	69.	37.	0.50
1.	70.	37.	0.50
1.	71.	37.	0.50
1.	72.	37.	0.50
1.	72.	36.	0.50
1.	73.	36.	0.50
1.	74.	36.	0.50
1.	75.	36.	0.50
1.	76.	36.	0.50
1.	77.	36.	0.50
1.	78.	36.	0.50
1.	79.	36.	0.50
1.	80.	36.	0.50
1.	81.	36.	0.50
1.	82.	36.	0.51
1.	83.	36.	0.47

GROUP NUMBER: 14 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 48
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
21	no_chdf8	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	24.	27.	0.02
1.	25.	27.	0.50
1.	26.	27.	0.50
1.	26.	28.	0.50
1.	27.	28.	0.50
1.	27.	29.	0.50
1.	28.	29.	0.50
1.	29.	29.	0.50
1.	29.	30.	0.50
1.	30.	30.	0.50
1.	31.	30.	0.50
1.	32.	30.	0.50
1.	33.	30.	0.50
1.	34.	30.	0.50
1.	35.	30.	0.50
1.	36.	30.	0.50
1.	37.	30.	0.50
1.	38.	30.	0.50
1.	39.	30.	0.50
1.	40.	30.	0.50
1.	41.	30.	0.50
1.	42.	30.	0.50
1.	43.	30.	0.50
1.	44.	30.	0.50
1.	45.	30.	0.50
1.	45.	29.	0.50
1.	46.	29.	0.50
1.	47.	29.	0.50
1.	48.	29.	0.50
1.	49.	29.	0.50
1.	50.	29.	0.50
1.	51.	29.	0.50
1.	52.	29.	0.50
1.	53.	29.	0.50
1.	54.	29.	0.50

1.	55.	29.	0.50
1.	56.	29.	0.50
1.	57.	29.	0.50
1.	58.	29.	0.50
1.	59.	29.	0.50
1.	60.	29.	0.50
1.	61.	29.	0.50
1.	61.	28.	0.50
1.	62.	28.	0.50
1.	63.	28.	0.50
1.	64.	28.	0.50
1.	65.	28.	0.50
1.	66.	28.	0.23

GROUP NUMBER: 15 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 38
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
22	no_chdf9	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	3.	54.	0.47
1.	3.	55.	0.50
1.	3.	56.	0.50
1.	3.	57.	0.50
1.	4.	57.	0.50
1.	5.	57.	0.50
1.	6.	57.	0.50
1.	7.	57.	0.50
1.	8.	57.	0.50
1.	9.	57.	0.50
1.	10.	57.	0.50
1.	11.	57.	0.50
1.	12.	57.	0.50
1.	13.	57.	0.50
1.	13.	56.	0.50
1.	14.	56.	0.50
1.	15.	56.	0.50
1.	16.	56.	0.50
1.	17.	56.	0.50
1.	17.	57.	0.50
1.	17.	58.	0.50
1.	17.	59.	0.50
1.	17.	60.	0.50
1.	17.	61.	0.50
1.	17.	62.	0.50
1.	17.	63.	0.50
1.	17.	64.	0.50
1.	17.	65.	0.50
1.	17.	66.	0.50
1.	17.	67.	0.50
1.	18.	67.	0.50
1.	18.	68.	0.50
1.	18.	69.	0.50
1.	18.	70.	0.50
1.	18.	71.	0.50
1.	18.	72.	0.50
1.	18.	73.	0.50
1.	18.	74.	0.01

GROUP NUMBER: 16 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 98
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
23	no_chdf10	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	47.	93.	0.20
1.	47.	92.	0.31
1.	48.	92.	0.50
1.	48.	91.	0.50
1.	48.	90.	0.50
1.	49.	90.	0.50
1.	49.	89.	0.50
1.	50.	89.	0.50
1.	50.	88.	0.50
1.	51.	88.	0.50
1.	51.	87.	0.50
1.	51.	86.	0.50
1.	52.	86.	0.50
1.	52.	85.	0.50
1.	53.	85.	0.50
1.	53.	84.	0.50
1.	53.	83.	0.50
1.	54.	83.	0.50
1.	54.	82.	0.50
1.	55.	82.	0.50
1.	55.	81.	0.50
1.	56.	81.	0.50
1.	57.	81.	0.50
1.	58.	81.	0.50
1.	59.	81.	0.50
1.	60.	81.	0.50
1.	61.	81.	0.50
1.	62.	81.	0.50
1.	63.	81.	0.50
1.	64.	81.	0.50
1.	65.	81.	0.50
1.	66.	81.	0.50
1.	67.	81.	0.50
1.	68.	81.	0.50
1.	69.	81.	0.50
1.	70.	81.	0.50
1.	70.	80.	0.50
1.	71.	80.	0.50
1.	72.	80.	0.50
1.	73.	80.	0.50
1.	73.	79.	0.50
1.	73.	78.	0.50
1.	74.	78.	0.50
1.	74.	77.	0.50
1.	74.	76.	0.50
1.	74.	75.	0.50
1.	75.	75.	0.50
1.	75.	74.	0.50
1.	75.	73.	0.50
1.	76.	73.	0.50
1.	76.	72.	0.50
1.	76.	71.	0.50
1.	77.	71.	0.50

```
        1.   77.    70.     0.50
        1.   77.    69.     0.50
        1.   77.    68.     0.50
        1.   77.    67.     0.50
        1.   76.    67.     0.50
        1.   76.    66.     0.50
        1.   75.    66.     0.50
        1.   75.    65.     0.50
        1.   74.    65.     0.50
        1.   73.    65.     0.50
        1.   73.    64.     0.50
        1.   72.    64.     0.50
        1.   72.    63.     0.50
        1.   72.    62.     0.50
        1.   73.    62.     0.50
        1.   73.    61.     0.50
        1.   74.    61.     0.50
        1.   75.    61.     0.50
        1.   76.    61.     0.50
        1.   76.    60.     0.50
        1.   77.    60.     0.50
        1.   78.    60.     0.50
        1.   78.    59.     0.50
        1.   79.    59.     0.50
        1.   80.    59.     0.50
        1.   81.    59.     0.50
        1.   81.    58.     0.50
        1.   82.    58.     0.50
        1.   83.    58.     0.50
        1.   83.    57.     0.50
        1.   84.    57.     0.50
        1.   84.    56.     0.50
        1.   84.    55.     0.50
        1.   85.    55.     0.50
        1.   85.    54.     0.50
        1.   85.    53.     0.50
        1.   85.    52.     0.50
        1.   85.    51.     0.50
        1.   86.    51.     0.50
        1.   86.    50.     0.50
        1.   86.    49.     0.50
        1.   86.    48.     0.50
        1.   86.    47.     0.50
        1.   87.    47.     0.50
        1.   87.    46.     0.04

 GROUP NUMBER:  17   BOUNDARY TYPE: CHD   NUMBER OF CELLS IN GROUP:     5
 NUMBER OF FLOW OBSERVATIONS:     1

                                          OBSERVED
                     REFER.             BOUNDARY FLOW
    OBSERVATION      STRESS    TIME      GAIN (-) OR              STATISTIC   PLOT
OBS#    NAME         PERIOD   OFFSET      LOSS (+)    STATISTIC     TYPE      SYM.
  24 no_chdf11          1    0.000        1.000      0.1000E+20  STD. DEV.      1

    LAYER  ROW  COLUMN    FACTOR
        1.   83.    36.     0.03
        1.   84.    36.     0.49
        1.   85.    36.     0.49
        1.   86.    36.     0.49
        1.   87.    36.     0.47

 GROUP NUMBER:  18   BOUNDARY TYPE: CHD   NUMBER OF CELLS IN GROUP:    11
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NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
25	no_chdf12	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	87.	46.	0.45
1.	88.	46.	0.50
1.	89.	46.	0.50
1.	90.	46.	0.50
1.	91.	46.	0.50
1.	92.	46.	0.50
1.	93.	46.	0.50
1.	94.	46.	0.50
1.	95.	46.	0.50
1.	96.	46.	0.50
1.	97.	46.	0.31

GROUP NUMBER: 19 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 42
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
26	no_chdf13	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	2.	14.	0.15
1.	2.	15.	0.33
1.	2.	16.	0.50
1.	2.	17.	0.50
1.	2.	18.	0.50
1.	2.	19.	0.50
1.	2.	20.	0.50
1.	2.	21.	0.50
1.	2.	22.	0.50
1.	2.	23.	0.50
1.	2.	24.	0.50
1.	2.	25.	0.50
1.	2.	26.	0.50
1.	2.	27.	0.50
1.	2.	28.	0.50
1.	2.	29.	0.50
1.	2.	30.	0.50
1.	2.	31.	0.50
1.	2.	32.	0.50
1.	2.	33.	0.50
1.	2.	34.	0.50
1.	3.	34.	0.50
1.	3.	35.	0.50
1.	3.	36.	0.50
1.	3.	37.	0.50
1.	3.	38.	0.50
1.	3.	39.	0.50
1.	3.	40.	0.50
1.	3.	41.	0.50
1.	3.	42.	0.50
1.	3.	43.	0.50
1.	3.	44.	0.50

```
        1.    3.    45.     0.50
        1.    3.    46.     0.50
        1.    3.    47.     0.50
        1.    3.    48.     0.50
        1.    3.    49.     0.50
        1.    3.    50.     0.50
        1.    3.    51.     0.50
        1.    3.    52.     0.50
        1.    3.    53.     0.50
        1.    3.    54.     0.03

 GROUP NUMBER:  20   BOUNDARY TYPE: CHD   NUMBER OF CELLS IN GROUP:    36
 NUMBER OF FLOW OBSERVATIONS:     1

                                   OBSERVED
                  REFER.          BOUNDARY FLOW
    OBSERVATION  STRESS    TIME     GAIN (-) OR              STATISTIC   PLOT
OBS#    NAME      PERIOD   OFFSET     LOSS (+)    STATISTIC     TYPE      SYM.
  27 no_chdf14        1    0.000       1.000      0.1000E+20  STD. DEV.      1

    LAYER  ROW  COLUMN    FACTOR
        1.    2.    14.     0.35
        1.    2.    15.     0.17
        1.    3.    15.     0.50
        1.    4.    15.     0.50
        1.    4.    16.     0.50
        1.    5.    16.     0.50
        1.    6.    16.     0.50
        1.    6.    17.     0.50
        1.    7.    17.     0.50
        1.    8.    17.     0.50
        1.    8.    18.     0.50
        1.    9.    18.     0.50
        1.    9.    19.     0.50
        1.   10.    19.     0.50
        1.   11.    19.     0.50
        1.   11.    20.     0.50
        1.   12.    20.     0.50
        1.   13.    20.     0.50
        1.   13.    21.     0.50
        1.   14.    21.     0.50
        1.   15.    21.     0.50
        1.   15.    22.     0.50
        1.   16.    22.     0.50
        1.   17.    22.     0.50
        1.   17.    23.     0.50
        1.   18.    23.     0.50
        1.   18.    24.     0.50
        1.   19.    24.     0.50
        1.   20.    24.     0.50
        1.   20.    25.     0.50
        1.   21.    25.     0.50
        1.   22.    25.     0.50
        1.   22.    26.     0.50
        1.   23.    26.     0.50
        1.   24.    26.     0.50
        1.   24.    27.     0.48

 GROUP NUMBER:  21   BOUNDARY TYPE: CHD   NUMBER OF CELLS IN GROUP:    21
 NUMBER OF FLOW OBSERVATIONS:     1

                                   OBSERVED
                  REFER.          BOUNDARY FLOW
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OBS#	OBSERVATION NAME	STRESS PERIOD	TIME OFFSET	GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
28	no_chdf15	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	87.	36.	0.03
1.	88.	36.	0.49
1.	88.	37.	0.49
1.	89.	37.	0.50
1.	89.	38.	0.50
1.	90.	38.	0.50
1.	90.	39.	0.50
1.	91.	39.	0.50
1.	91.	40.	0.50
1.	92.	40.	0.50
1.	92.	41.	0.50
1.	93.	41.	0.50
1.	93.	42.	0.50
1.	94.	42.	0.50
1.	94.	43.	0.50
1.	95.	43.	0.50
1.	95.	44.	0.50
1.	96.	44.	0.50
1.	96.	45.	0.50
1.	97.	45.	0.50
1.	97.	46.	0.19

GROUP NUMBER: 22 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 49
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
29	no_chdf16	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	18.	74.	0.49
1.	19.	74.	0.50
1.	19.	75.	0.50
1.	20.	75.	0.50
1.	21.	75.	0.50
1.	21.	76.	0.50
1.	22.	76.	0.50
1.	22.	77.	0.50
1.	23.	77.	0.50
1.	24.	77.	0.50
1.	24.	78.	0.50
1.	25.	78.	0.50
1.	25.	79.	0.50
1.	26.	79.	0.50
1.	27.	79.	0.50
1.	27.	80.	0.50
1.	28.	80.	0.50
1.	29.	80.	0.50
1.	29.	81.	0.50
1.	30.	81.	0.50
1.	30.	82.	0.50
1.	31.	82.	0.50
1.	32.	82.	0.50
1.	32.	83.	0.50
1.	33.	83.	0.50
1.	33.	84.	0.50

1.	34.	84.	0.50
1.	35.	84.	0.50
1.	35.	85.	0.50
1.	36.	85.	0.50
1.	36.	86.	0.50
1.	37.	86.	0.50
1.	38.	86.	0.50
1.	38.	87.	0.50
1.	39.	87.	0.50
1.	39.	88.	0.50
1.	40.	88.	0.50
1.	41.	88.	0.50
1.	41.	89.	0.50
1.	42.	89.	0.50
1.	42.	90.	0.50
1.	43.	90.	0.50
1.	44.	90.	0.50
1.	44.	91.	0.50
1.	45.	91.	0.50
1.	45.	92.	0.50
1.	46.	92.	0.50
1.	47.	92.	0.19
1.	47.	93.	0.31

GROUP NUMBER: 23 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 28
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
30	no_chdf17	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	66.	28.	0.27
1.	66.	29.	0.50
1.	66.	30.	0.50
1.	66.	31.	0.50
1.	66.	32.	0.50
1.	66.	33.	0.50
1.	66.	34.	0.50
1.	66.	35.	0.50
1.	66.	36.	0.50
1.	66.	37.	0.50
1.	67.	37.	0.50
1.	68.	37.	0.50
1.	69.	37.	0.50
1.	70.	37.	0.50
1.	71.	37.	0.50
1.	72.	37.	0.50
1.	72.	36.	0.50
1.	73.	36.	0.50
1.	74.	36.	0.50
1.	75.	36.	0.50
1.	76.	36.	0.50
1.	77.	36.	0.50
1.	78.	36.	0.50
1.	79.	36.	0.50
1.	80.	36.	0.50
1.	81.	36.	0.50
1.	82.	36.	0.49
1.	83.	36.	0.46

GROUP NUMBER: 24 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 48
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
31	no_chdf18	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	24.	27.	0.02
1.	25.	27.	0.50
1.	26.	27.	0.50
1.	26.	28.	0.50
1.	27.	28.	0.50
1.	27.	29.	0.50
1.	28.	29.	0.50
1.	29.	29.	0.50
1.	29.	30.	0.50
1.	30.	30.	0.50
1.	31.	30.	0.50
1.	32.	30.	0.50
1.	33.	30.	0.50
1.	34.	30.	0.50
1.	35.	30.	0.50
1.	36.	30.	0.50
1.	37.	30.	0.50
1.	38.	30.	0.50
1.	39.	30.	0.50
1.	40.	30.	0.50
1.	41.	30.	0.50
1.	42.	30.	0.50
1.	43.	30.	0.50
1.	44.	30.	0.50
1.	45.	30.	0.50
1.	45.	29.	0.50
1.	46.	29.	0.50
1.	47.	29.	0.50
1.	48.	29.	0.50
1.	49.	29.	0.50
1.	50.	29.	0.50
1.	51.	29.	0.50
1.	52.	29.	0.50
1.	53.	29.	0.50
1.	54.	29.	0.50
1.	55.	29.	0.50
1.	56.	29.	0.50
1.	57.	29.	0.50
1.	58.	29.	0.50
1.	59.	29.	0.50
1.	60.	29.	0.50
1.	61.	29.	0.50
1.	61.	28.	0.50
1.	62.	28.	0.50
1.	63.	28.	0.50
1.	64.	28.	0.50
1.	65.	28.	0.50
1.	66.	28.	0.23

GROUP NUMBER: 25 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 38
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
32	no_chdf19	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	3.	54.	0.47
1.	3.	55.	0.50
1.	3.	56.	0.50
1.	3.	57.	0.50
1.	4.	57.	0.50
1.	5.	57.	0.50
1.	6.	57.	0.50
1.	7.	57.	0.50
1.	8.	57.	0.50
1.	9.	57.	0.50
1.	10.	57.	0.50
1.	11.	57.	0.50
1.	12.	57.	0.50
1.	13.	57.	0.50
1.	13.	56.	0.50
1.	14.	56.	0.50
1.	15.	56.	0.50
1.	16.	56.	0.50
1.	17.	56.	0.50
1.	17.	57.	0.50
1.	17.	58.	0.50
1.	17.	59.	0.50
1.	17.	60.	0.50
1.	17.	61.	0.50
1.	17.	62.	0.50
1.	17.	63.	0.50
1.	17.	64.	0.50
1.	17.	65.	0.50
1.	17.	66.	0.50
1.	17.	67.	0.50
1.	18.	67.	0.50
1.	18.	68.	0.50
1.	18.	69.	0.50
1.	18.	70.	0.50
1.	18.	71.	0.50
1.	18.	72.	0.50
1.	18.	73.	0.50
1.	18.	74.	0.01

```
                                   SOLUTION BY THE CONJUGATE-GRADIENT METHOD
                                  -----------------------------------------
                    MAXIMUM NUMBER OF CALLS TO PCG ROUTINE =       25
                        MAXIMUM ITERATIONS PER CALL TO PCG =       50
                               MATRIX PRECONDITIONING TYPE =        1
       RELAXATION FACTOR (ONLY USED WITH PRECOND. TYPE 1) =    0.10000E+01
PARAMETER OF POLYNOMIAL PRECOND. = 2 (2) OR IS CALCULATED :        0
                          HEAD CHANGE CRITERION FOR CLOSURE =    0.10000E+00
                     RESIDUAL CHANGE CRITERION FOR CLOSURE =    0.10000E+00
           PCG HEAD AND RESIDUAL CHANGE PRINTOUT INTERVAL =      999
    PRINTING FROM SOLVER IS LIMITED(1) OR SUPPRESSED (>1) =        2
                                        DAMPING PARAMETER =    0.10000E+01

WETTING CAPABILITY IS ACTIVE IN   1 LAYERS
 WETTING FACTOR=   10.00000
 WETTING ITERATION INTERVAL=          10
```

```
 IHDWET=           0

    0 Well parameters

    0 Drain parameters

    0 Evapotranspiration parameters

    0 GHB parameters

    0 Recharge parameters

    0 TIME-VARIANT SPECIFIED-HEAD PARAMETERS

    0 HFB parameters

   3 PARAMETERS HAVE BEEN DEFINED IN ALL PACKAGES.
(SPACE IS ALLOCATED FOR  999 PARAMETERS.)

SMALLEST AND LARGEST WEIGHTED RESIDUALS

     SMALLEST WEIGHTED RESIDUALS      |       LARGEST WEIGHTED RESIDUALS
                WEIGHTED   PERCENT OF |                  WEIGHTED   PERCENT OF
NAME            RESIDUAL    OBJ FUNC  | NAME             RESIDUAL    OBJ FUNC
no_ghbf2       -0.507E-12     0.00    | hed6             0.204E+04    46.87
no_ghbf1       -0.129E-14     0.00    | hed4             0.173E+04    33.67
no_ghbf3       -0.100E-14     0.00    | hed7              839.         7.96
no_ghbf0       -0.405E-15     0.00    | hed3              758.         6.51
no_chdf11       0.168E-15     0.00    | hed1              460.         2.39

STATISTICS FOR ALL RESIDUALS :
AVERAGE WEIGHTED RESIDUAL  : 0.202E+03
# RESIDUALS >= 0. :     28
# RESIDUALS < 0.  :      4
NUMBER OF RUNS  :    3  IN   32 OBSERVATIONS

INTERPRETING THE CALCULATED RUNS STATISTIC VALUE OF     -3.87
NOTE: THE FOLLOWING APPLIES ONLY IF
       # RESIDUALS >= 0 . IS GREATER THAN 10 AND
       # RESIDUALS < 0.   IS GREATER THAN 10
THE NEGATIVE VALUE MAY INDICATE TOO FEW RUNS:
   IF THE VALUE IS LESS THAN -1.28, THERE IS LESS THAN A 10 PERCENT
      CHANCE THE VALUES ARE RANDOM,
   IF THE VALUE IS LESS THAN -1.645, THERE IS LESS THAN A 5 PERCENT
      CHANCE THE VALUES ARE RANDOM,
   IF THE VALUE IS LESS THAN -1.96, THERE IS LESS THAN A 2.5 PERCENT
      CHANCE THE VALUES ARE RANDOM.


CORRELATION BETWEEN ORDERED WEIGHTED RESIDUALS AND NORMAL ORDER STATISTICS
FOR OBSERVATIONS =    0.474

-------------------------------------------------------------------------
COMMENTS ON THE INTERPRETATION OF THE CORRELATION BETWEEN
WEIGHTED RESIDUALS AND NORMAL ORDER STATISTICS:
```

Generally, IF the reported CORRELATION is LESS than the critical value, at the selected significance level (usually 5 or 10%), the hypothesis that the weighted residuals are INDEPENDENT AND NORMALLY DISTRIBUTED would be REJECTED. HOWEVER, in this case, conditions are outside of the range of published critical values as discussed below.

The sum of the number of observations and prior information items is 32 which is less than 35, the minimum value for which critical values are published. Therefore, the critical values for the 5 and 10% significance levels are less than 0.943 and 0.952, respectively.

CORRELATIONS GREATER than these critical values indicate that, probably, the weighted residuals ARE INDEPENDENT AND NORMALLY DISTRIBUTED.

Correlations LESS than these critical values MAY BE ACCEPTABLE, and rejection of the hypothesis is not necessarily warranted.

The Kolmogorov-Smirnov test can be used to further evaluate the residuals.

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1 46 92 47 92 1.0e-009
1 47 91 47 92 1.0e-009
1 48 91 48 92 1.0e-009
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5 86 48 86 49 1.0e-009
5 86 47 87 47 1.0e-009
5 87 46 87 47 1.0e-009
```

```
5 95 46 96 46 1.0e-009
5 96 45 96 46 1.0e-009
5 97 45 97 46 1.0e-009
0
```

```
# MF2K-MT3DMS LINKER FILE
#
OUTPUT_FILE_NAME "DRAIN_HIGHK.hff"
OUTPUT_FILE_UNIT
OUTPUT_FILE_HEADER standard
OUTPUT_FILE_FORMAT unformatted
```

```
40 -888.0 0 0
1 0 0 0 0 0
0 0 0 0 0 0
-1.0 -1.0 -1.0 -1.0 -1.0 -1.0
1 1 1 1 1 1
1 0 0 0 0 0
10.0   10   0
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HK1" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HANI1" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/VANI1" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/WET1" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HK2" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HANI2" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/VANI2" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HK3" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HANI3" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/VANI3" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HK4" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HANI4" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/VANI4" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HK5" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HANI5" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/VANI5" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HK6" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HANI6" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/VANI6" 1 0 10000
```

```
# MF2K NAME file
#
# Output Files
GLOBAL        1 "DRAIN_HIGHK.glo"
LIST          2 "DRAIN_HIGHK.out"
DATA(BINARY) 30 "DRAIN_HIGHK.hed"
DATA(BINARY) 40 "DRAIN_HIGHK.ccf"
LMT6         18 "DRAIN_HIGHK.lmt"
#
# Obs-Sen-Pes Process Input Files
OBS          50 "DRAIN_HIGHK.obs"
HOB          51 "DRAIN_HIGHK.hob"
GBOB         53 "DRAIN_HIGHK.gbob"
DROB         54 "DRAIN_HIGHK.drob"
CHOB         55 "DRAIN_HIGHK.chob"
SEN          57 "DRAIN_HIGHK.snn"
PES          58 "DRAIN_HIGHK.pes"
ASP          71 "DRAIN_HIGHK.asp"
#
# Global Input Files
DIS          19 "DRAIN_HIGHK.dis"
#
# Flow Process Input Files
BAS6          3 "DRAIN_HIGHK.ba6"
LPF           4 "DRAIN_HIGHK.lpf"
OC           15 "DRAIN_HIGHK.oc"
RCH          16 "DRAIN_HIGHK.rch"
HFB6          7 "DRAIN_HIGHK.hfb"
WEL           9 "DRAIN_HIGHK.wel"
DRN          10 "DRAIN_HIGHK.drn"
GHB          11 "DRAIN_HIGHK.ghb"
EVT          12 "DRAIN_HIGHK.evt"
CHD          13 "DRAIN_HIGHK.chd"
PCG          14 "DRAIN_HIGHK.pcg"
```

DRAIN_HIGHK 3

```
HEAD SAVE UNIT 30
COMPACT BUDGET AUX
PERIOD 1 STEP 1
    PRINT BUDGET
    SAVE HEAD
    SAVE BUDGET
```

```
                    MODFLOW-2000
     U.S. GEOLOGICAL SURVEY MODULAR FINITE-DIFFERENCE GROUND-WATER FLOW MODEL
                    VERSION 1.18.01 06/20/2008


This model run produced both GLOBAL and LIST files.  This is the LIST file.


#NT-1
#12 December 2007
THE FREE FORMAT OPTION HAS BEEN SELECTED
   6 LAYERS       100 ROWS       100 COLUMNS
   1 STRESS PERIOD(S) IN SIMULATION

BAS6 -- BASIC PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT    3
        30 ELEMENTS IN IR ARRAY ARE USED BY BAS

WEL6 -- WELL PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT    9
#GMS_HDF5_01
No named parameters
MAXIMUM OF      1 ACTIVE WELLS AT ONE TIME
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT   40
AUXILIARY WELL VARIABLE: IFACE
AUXILIARY WELL VARIABLE: QFACT
AUXILIARY WELL VARIABLE: CELLGRP
         7 ELEMENTS IN RX ARRAY ARE USED BY WEL

DRN6 -- DRAIN PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT   10
#GMS_HDF5_01
No named parameters
MAXIMUM OF    432 ACTIVE DRAINS AT ONE TIME
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT   40
AUXILIARY DRAIN VARIABLE: IFACE
AUXILIARY DRAIN VARIABLE: CONDFACT
AUXILIARY DRAIN VARIABLE: CELLGRP
      3456 ELEMENTS IN RX ARRAY ARE USED BY DRN

EVT6 -- EVAPOTRANSPIRATION PACKAGE, VERSION 6, 12/14/2000
        INPUT READ FROM UNIT   12
#GMS_HDF5_01
No named parameters
OPTION 1 -- EVAPOTRANSPIRATION FROM TOP LAYER
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT   40
     30000 ELEMENTS IN RX ARRAY ARE USED BY EVT
     10000 ELEMENTS IN IR ARRAY ARE USED BY EVT

GHB6 -- GHB PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT   11
#GMS_HDF5_01
No named parameters
MAXIMUM OF    263 ACTIVE GHB CELLS AT ONE TIME
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT   40
AUXILIARY GHB VARIABLE: IFACE
AUXILIARY GHB VARIABLE: CONDFACT
AUXILIARY GHB VARIABLE: CELLGRP
      2104 ELEMENTS IN RX ARRAY ARE USED BY GHB

RCH6 -- RECHARGE PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT   16
#GMS_HDF5_01
No named parameters
OPTION 3 -- RECHARGE TO HIGHEST ACTIVE NODE IN EACH VERTICAL COLUMN
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT   40
     10000 ELEMENTS IN RX ARRAY ARE USED BY RCH
     10000 ELEMENTS IN IR ARRAY ARE USED BY RCH
```

```
 CHD6 -- TIME-VARIANT SPECIFIED-HEAD PACKAGE, VERSION 6, 1/11/2000
 INPUT READ FROM UNIT   13
 #GMS_HDF5_01
 No named parameters
 MAXIMUM OF    752 TIME-VARIANT SPECIFIED-HEAD CELLS AT ONE TIME
       3760 ELEMENTS IN RX ARRAY ARE USED BY CHD
 HFB6 -- HORIZONTAL FLOW BARRIER PACKAGE, VERSION 6, 1/11/1000.
   INPUT READ FROM UNIT    7
     0 PARAMETERS DEFINE A MAXIMUM OF      0 HORIZONTAL FLOW BARRIERS
    380 HORIZONTAL FLOW BARRIERS NOT DEFINED BY PARAMETERS
       2660 ELEMENTS IN RX ARRAY ARE USED FOR
           HORIZONTAL FLOW BARRIER PACKAGE

      51987  ELEMENTS OF RX ARRAY USED OUT OF      51987
          0  ELEMENTS OF RZ ARRAY USED OUT OF          1
      20030  ELEMENTS OF IR ARRAY USED OUT OF      20030
1
 #NT-1
 #12 December 2007

                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          33          34          35          36
  37           38          39          40
                41          42          43          44          45          46
  47           48          49          50
                51          52          53          54          55          56
  57           58          59          60
                61          62          63          64          65          66
  67           68          69          70
                71          72          73          74          75          76
  77           78          79          80
                81          82          83          84          85          86
  87           88          89          90
                91          92          93          94          95          96
  97           98          99         100

.......................................................................................
.......................................
   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
                0           0           0           0           0           0
   0            0           0           0
                0           0           0           0           0           0
   0            0           0           0
                0           0           0           0           0           0
   0            0           0           0
                0           0           0           0           0           0
   0            0           0           0
                0           0           0           0           0           0
   0            0           0           0
                0           0           0           0           0           0
   0            0           0           0
                0           0           0           0           0           0
```

```
0          0          0          0
2          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
           1          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          0          0          0
           0          0          0          0          0          0
0          0          0          0
           0          0          0          0          0          0
0          0          0          0
           0          0          0          0          0          0
0          0          0          0
           0          0          0          0          0          0
0          0          0          0
3          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          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          0          0          0          0
0          0          0          0
           0          0          0          0          0          0
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          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          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          0          0          0
           0          0          0          0          0          0
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          0          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           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           0
                0           0           0           0           0           0
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           0           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           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           0
                0           0           0           0           0           0
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               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           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           0           0           0           0
0           0           0           0
                0           0           0           0           0           0
0           0           0           0
                0           0           0           0           0           0
0           0           0           0
                0           0           0           0           0           0
0           0           0           0
8               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          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          0          0          0          0
0          0          0          0
           0          0          0          0          0          0
0          0          0          0
           0          0          0          0          0          0
0          0          0          0
           0          0          0          0          0          0
0          0          0          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          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
0          0          0          0
           0          0          0          0          0          0
0          0          0          0
           0          0          0          0          0          0
0          0          0          0
           0          0          0          0          0          0
0          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
           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          0          0          0          0
0          0          0          0
           0          0          0          0          0          0
0          0          0          0
           0          0          0          0          0          0
0          0          0          0
           0          0          0          0          0          0
0          0          0          0
11         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          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
 0            0            0            0
                0            0            0            0            0            0
 0            0            0            0
                0            0            0            0            0            0
 0            0            0            0
                0            0            0            0            0            0
 0            0            0            0
12              0            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            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
 0            0            0            0
                0            0            0            0            0            0
 0            0            0            0
                0            0            0            0            0            0
 0            0            0            0
                0            0            0            0            0            0
 0            0            0            0
13              0            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            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
 0            0            0            0
                0            0            0            0            0            0
 0            0            0            0
                0            0            0            0            0            0
 0            0            0            0
                0            0            0            0            0            0
 0            0            0            0
14              0            0            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            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          0
0          0          0          0
           0          0          0          0          0          0
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          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          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
0          0          0          0
           0          0          0          0          0          0
0          0          0          0
           0          0          0          0          0          0
0          0          0          0
           0          0          0          0          0          0
0          0          0          0
16         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          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          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          0
           0          0          0          0          0          0
0          0          0          0
           0          0          0          0          0          0
0          0          0          0
17         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          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          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           0
                0           0           0           0           0           0
 0           0           0           0
                0           0           0           0           0           0
 0           0           0           0
18              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
 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           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           0           0           0
 0           0           0           0
                0           0           0           0           0           0
 0           0           0           0
19              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           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           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           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           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
                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           1           1
                1           1           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          0          0
21           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          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
 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          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          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          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
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
23           0          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          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          1          1          1
             1          1          1          1          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
```

```
24          0          0          0          0          0          0
 0          0          0          0
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 0          0          0          0
25          0          0          0          0          0          0
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26          0          0          0          0          0          0
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 0          0          0          0
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 0          0          0          0
27          0          0          0          0          0          0
 0          0          0          0
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28           0          0          0          0          0          0
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29           0          0          0          0          0          0
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 0          0          0          0
30           0          0          0          0          0          0
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 0          0          0          0
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 0          0          1
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33              0            0            0            0            0            0
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34          0          0          0          0          0          0
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35          0          0          0          0          0          0
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36          0          0          0          0          0          0
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37              0            0            0            0            0            0
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38              0            0            0            0            0            0
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39              0            0            0            0            0            0
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 0          0          0          0
40           0          0          0          0          0          0
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 0          0          0          0
41           0          0          0          0          0          0
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42           0          0          0          0          0          0
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43              0           0           0           0           0           0
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44              0           0           0           0           0           0
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45              0           0           0           0           0           0
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 0           0           0           0
46              0           0           0           0           0           0
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0          0          0          0
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0          0          0          0
47         0          0          0          0          0          0
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0          0          0          0
48         0          0          0          0          0          0
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0          0          0          0
49         0          0          0          0          0          0
0          0          0          0
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50              0           0           0           0           0           0
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51              0           0           0           0           0           0
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52              0           0           0           0           0           0
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53          0          0          0          0          0          0
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54          0          0          0          0          0          0
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55          0          0          0          0          0          0
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56              0            0            0            0            0            0
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57              0            0            0            0            0            0
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58              0            0            0            0            0            0
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59          0          0          0          0          0          0
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60          0          0          0          0          0          0
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 0          0          0          0
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 0          0          0          0
61          0          0          0          0          0          0
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64              0            0            0            0            0            0
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66          0          0          0          0          0          0
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67          0          0          0          0          0          0
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68          0          0          0          0          0          0
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71              0            0            0            0            0            0
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0          0          0          0
72         0          0          0          0          0          0
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73         0          0          0          0          0          0
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0          0          0          0
74         0          0          0          0          0          0
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1          1          1          1
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75              0           0           0           0           0           0
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76              0           0           0           0           0           0
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77              0           0           0           0           0           0
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 0          0          0          0
78           0          0          0          0          0          0
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79           0          0          0          0          0          0
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80           0          0          0          0          0          0
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81              0           0           0           0           0           0
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82              0           0           0           0           0           0
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83              0           0           0           0           0           0
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84          0          0          0          0          0          0
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85          0          0          0          0          0          0
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86          0          0          0          0          0          0
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87          0          0          0          0          0          0
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90          0          0          0          0          0          0
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91           0          0          0          0          0          0
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92           0          0          0          0          0          0
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93           0          0          0          0          0          0
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94              0            0            0            0            0            0
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95              0            0            0            0            0            0
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97          0          0          0          0          0          0
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98          0          0          0          0          0          0
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  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          33          34          35          36
 37          38          39          40
               41          42          43          44          45          46
 47          48          49          50
               51          52          53          54          55          56
 57          58          59          60
               61          62          63          64          65          66
 67          68          69          70
               71          72          73          74          75          76
 77          78          79          80
               81          82          83          84          85          86
 87          88          89          90
               91          92          93          94          95          96
 97          98          99         100

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11          0          0          0          0          0          0
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 0          0          0          0
12          0          0          0          0          0          0
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 0          0          0          0
13          0          0          0          0          0          0
 0          0          0          0
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14          0          0          0          0          0          0
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15           0          0          0          0          0          0
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16           0          0          0          0          0          0
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17           0          0          0          0          0          0
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18              0            0            0            0            0            0
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19              0            0            0            0            0            0
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20              0            0            0            0            0            0
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 1          1          1          1
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21           0          0          0          0          0          0
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23           0          0          0          0          0          0
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25              0            0            0            0            0            0
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26              0            0            0            0            0            0
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27          0          0          0          0          0          0
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28          0          0          0          0          0          0
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33              0           0           0           0           0           0
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               11          12          13          14          15          16
 17          18          19          20
               21          22          23          24          25          26
 27          28          29          30
               31          32          33          34          35          36
 37          38          39          40
               41          42          43          44          45          46
 47          48          49          50
               51          52          53          54          55          56
 57          58          59          60
               61          62          63          64          65          66
 67          68          69          70
               71          72          73          74          75          76
 77          78          79          80
               81          82          83          84          85          86
 87          88          89          90
               91          92          93          94          95          96
 97          98          99         100

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 27          28          29          30
              31          32          33          34          35          36
 37          38          39          40
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 47          48          49          50
              51          52          53          54          55          56
 57          58          59          60
              61          62          63          64          65          66
 67          68          69          70
              71          72          73          74          75          76
 77          78          79          80
              81          82          83          84          85          86
 87          88          89          90
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               91          92          93          94          95          96
  97          98          99         100

....................................................................................
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7            0           0           0           0           0           0
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0          0          0          0
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51            0           0           0           0           0           0
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70             0           0            0           0            0           0
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72         0          0          0          0          0          0
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 27          28          29          30
              31          32          33          34          35          36
 37          38          39          40
              41          42          43          44          45          46
 47          48          49          50
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               71          72          73          74          75          76
  77          78          79          80
               81          82          83          84          85          86
  87          88          89          90
               91          92          93          94          95          96
  97          98          99         100

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0           0           0           0
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0           0           0           0
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0           0           0           0
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0           0           0           0
9            0           0           0           0           0           0
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0           0           0           0
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  16            0           0           0           0           0           0
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19            0           0           0           0           0           0
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79            0           0           0           0           0           0
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                         1           2           3           4           5           6
            7           8           9          10
```

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               11          12          13          14          15          16
  17          18          19          20
               21          22          23          24          25          26
  27          28          29          30
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  37          38          39          40
               41          42          43          44          45          46
  47          48          49          50
               51          52          53          54          55          56
  57          58          59          60
               61          62          63          64          65          66
  67          68          69          70
               71          72          73          74          75          76
  77          78          79          80
               81          82          83          84          85          86
  87          88          89          90
               91          92          93          94          95          96
  97          98          99         100

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12            0           0           0           0           0           0
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 0           0           0           0
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16            0           0           0           0           0           0
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 0         0         0         0
25          0         0         0         0         0         0
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            0         0         0         0         0         0
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27            0           0           0           0           0           0
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28            0           0           0           0           0           0
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 0           0           0           0
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 0           0           1           1
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44            0           0           0           0           0           0
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0          0          0          0
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 0           0           0           0
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 0           0           0           0
              0           0           0           0           0           0
```

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  0           0           0           0
 83            0           0           0           0           0           0
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  0           0           0           0
```

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85            0           0           0           0           0           0
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              0           0           0           0           0           0
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86            0           0           0           0           0           0
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87            0           0           0           0           0           0
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 0           0           0           0
88            0           0           0           0           0           0
 0           0           0           0
              0           0           0           0           0           0
```

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89            0           0           0           0           0           0
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90            0           0           0           0           0           0
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91            0           0           0           0           0           0
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 0           0           0           0
              0           0           0           0           0           0
 0           0           0           0
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92            0           0           0           0           0           0
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93            0           0           0           0           0           0
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94            0           0           0           0           0           0
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              0           1           1           1           1           1
```

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96            0           0           0           0           0           0
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 0           0           0           0
97            0           0           0           0           0           0
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 0           0           0           0
```

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   0           0           0           0
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   0           0           0           0
 100            0           0           0           0           0           0
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   0           0           0           0
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   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           0           0           0
               0           0           0           0           0           0
  0           0           0           0
               0           0           0           0           0           0
  0           0           0           0

AQUIFER HEAD WILL BE SET TO -999.00     AT ALL NO-FLOW NODES (IBOUND=0).

OUTPUT CONTROL IS SPECIFIED ONLY AT TIME STEPS FOR WHICH OUTPUT IS DESIRED
COMPACT CELL-BY-CELL BUDGET FILES WILL BE WRITTEN
AUXILIARY DATA WILL BE SAVED IN CELL-BY-CELL BUDGET FILES
HEAD PRINT FORMAT CODE IS   0    DRAWDOWN PRINT FORMAT CODE IS   0
HEADS WILL BE SAVED ON UNIT   30    DRAWDOWNS WILL BE SAVED ON UNIT    0

   380 BARRIERS NOT DEFINED BY PARAMETERS
BARRIER  LAYER  IROW1  ICOL1  IROW2  ICOL2    HYDCHR
     1      1     47     92     47     93   0.10000E-08
     2      1     46     92     47     92   0.10000E-08
     3      1     47     91     47     92   0.10000E-08
     4      1     48     91     48     92   0.10000E-08
     5      1     48     90     49     90   0.10000E-08
     6      1     49     89     49     90   0.10000E-08
     7      1     49     89     50     89   0.10000E-08
     8      1     50     88     50     89   0.10000E-08
     9      1     50     88     51     88   0.10000E-08
    10      1     50     87     51     87   0.10000E-08
    11      1     51     86     51     87   0.10000E-08
    12      1     51     86     52     86   0.10000E-08
    13      1     52     85     52     86   0.10000E-08
    14      1     52     85     53     85   0.10000E-08
    15      1     53     84     53     85   0.10000E-08
    16      1     53     83     54     83   0.10000E-08
    17      1     54     82     54     83   0.10000E-08
    18      1     54     82     55     82   0.10000E-08
    19      1     55     81     55     82   0.10000E-08
    20      1     62     81     63     81   0.10000E-08
    21      1     63     80     63     81   0.10000E-08
    22      1     64     80     64     81   0.10000E-08
    23      1     65     80     65     81   0.10000E-08
    24      1     66     80     66     81   0.10000E-08
    25      1     67     80     67     81   0.10000E-08
    26      1     68     80     68     81   0.10000E-08
    27      1     69     80     69     81   0.10000E-08
    28      1     70     80     70     81   0.10000E-08
    29      1     72     80     73     80   0.10000E-08
    30      1     72     79     73     79   0.10000E-08
    31      1     73     78     73     79   0.10000E-08
    32      1     73     78     74     78   0.10000E-08
    33      1     73     77     74     77   0.10000E-08
    34      1     74     76     74     77   0.10000E-08
    35      1     74     75     75     75   0.10000E-08
    36      1     75     74     75     75   0.10000E-08
    37      1     75     73     76     73   0.10000E-08
    38      1     76     72     76     73   0.10000E-08
    39      1     76     71     77     71   0.10000E-08
    40      1     76     70     77     70   0.10000E-08
    41      1     76     69     77     69   0.10000E-08
    42      1     76     68     77     68   0.10000E-08
    43      1     76     67     77     67   0.10000E-08
    44      1     76     66     76     67   0.10000E-08
    45      1     75     66     76     66   0.10000E-08
    46      1     75     65     75     66   0.10000E-08
    47      1     74     65     74     66   0.10000E-08
```

48	1	73	65	74	65	0.10000E-08
49	1	73	64	73	65	0.10000E-08
50	1	72	64	73	64	0.10000E-08
51	1	72	62	73	62	0.10000E-08
52	1	73	61	73	62	0.10000E-08
53	1	74	61	75	61	0.10000E-08
54	1	75	60	75	61	0.10000E-08
55	1	76	60	76	61	0.10000E-08
56	1	76	60	77	60	0.10000E-08
57	1	77	59	77	60	0.10000E-08
58	1	78	59	78	60	0.10000E-08
59	1	79	59	80	59	0.10000E-08
60	1	80	58	80	59	0.10000E-08
61	1	81	58	81	59	0.10000E-08
62	1	82	58	83	58	0.10000E-08
63	1	83	57	83	58	0.10000E-08
64	1	84	55	85	55	0.10000E-08
65	1	84	54	85	54	0.10000E-08
66	1	84	53	85	53	0.10000E-08
67	1	85	52	85	53	0.10000E-08
68	1	85	51	86	51	0.10000E-08
69	1	85	50	86	50	0.10000E-08
70	1	85	49	86	49	0.10000E-08
71	1	86	48	86	49	0.10000E-08
72	1	86	47	87	47	0.10000E-08
73	1	87	46	87	47	0.10000E-08
74	1	95	46	96	46	0.10000E-08
75	1	96	45	96	46	0.10000E-08
76	1	97	45	97	46	0.10000E-08
77	2	47	92	47	93	0.10000E-08
78	2	46	92	47	92	0.10000E-08
79	2	47	91	47	92	0.10000E-08
80	2	48	91	48	92	0.10000E-08
81	2	48	90	49	90	0.10000E-08
82	2	49	89	49	90	0.10000E-08
83	2	49	89	50	89	0.10000E-08
84	2	50	88	50	89	0.10000E-08
85	2	50	88	51	88	0.10000E-08
86	2	50	87	51	87	0.10000E-08
87	2	51	86	51	87	0.10000E-08
88	2	51	86	52	86	0.10000E-08
89	2	52	85	52	86	0.10000E-08
90	2	52	85	53	85	0.10000E-08
91	2	53	84	53	85	0.10000E-08
92	2	53	83	54	83	0.10000E-08
93	2	54	82	54	83	0.10000E-08
94	2	54	82	55	82	0.10000E-08
95	2	55	81	55	82	0.10000E-08
96	2	62	81	63	81	0.10000E-08
97	2	63	80	63	81	0.10000E-08
98	2	64	80	64	81	0.10000E-08
99	2	65	80	65	81	0.10000E-08
100	2	66	80	66	81	0.10000E-08
101	2	67	80	67	81	0.10000E-08
102	2	68	80	68	81	0.10000E-08
103	2	69	80	69	81	0.10000E-08
104	2	70	80	70	81	0.10000E-08
105	2	72	80	73	80	0.10000E-08
106	2	72	79	73	79	0.10000E-08
107	2	73	78	73	79	0.10000E-08
108	2	73	78	74	78	0.10000E-08
109	2	73	77	74	77	0.10000E-08
110	2	74	76	74	77	0.10000E-08

111	2	74	75	75	75	0.10000E-08
112	2	75	74	75	75	0.10000E-08
113	2	75	73	76	73	0.10000E-08
114	2	76	72	76	73	0.10000E-08
115	2	76	71	77	71	0.10000E-08
116	2	76	70	77	70	0.10000E-08
117	2	76	69	77	69	0.10000E-08
118	2	76	68	77	68	0.10000E-08
119	2	76	67	77	67	0.10000E-08
120	2	76	66	76	67	0.10000E-08
121	2	75	66	76	66	0.10000E-08
122	2	75	65	75	66	0.10000E-08
123	2	74	65	74	66	0.10000E-08
124	2	73	65	74	65	0.10000E-08
125	2	73	64	73	65	0.10000E-08
126	2	72	64	73	64	0.10000E-08
127	2	72	62	73	62	0.10000E-08
128	2	73	61	73	62	0.10000E-08
129	2	74	61	75	61	0.10000E-08
130	2	75	60	75	61	0.10000E-08
131	2	76	60	76	61	0.10000E-08
132	2	76	60	77	60	0.10000E-08
133	2	77	59	77	60	0.10000E-08
134	2	78	59	78	60	0.10000E-08
135	2	79	59	80	59	0.10000E-08
136	2	80	58	80	59	0.10000E-08
137	2	81	58	81	59	0.10000E-08
138	2	82	58	83	58	0.10000E-08
139	2	83	57	83	58	0.10000E-08
140	2	84	55	85	55	0.10000E-08
141	2	84	54	85	54	0.10000E-08
142	2	84	53	85	53	0.10000E-08
143	2	85	52	85	53	0.10000E-08
144	2	85	51	86	51	0.10000E-08
145	2	85	50	86	50	0.10000E-08
146	2	85	49	86	49	0.10000E-08
147	2	86	48	86	49	0.10000E-08
148	2	86	47	87	47	0.10000E-08
149	2	87	46	87	47	0.10000E-08
150	2	95	46	96	46	0.10000E-08
151	2	96	45	96	46	0.10000E-08
152	2	97	45	97	46	0.10000E-08
153	3	47	92	47	93	0.10000E-08
154	3	46	92	47	92	0.10000E-08
155	3	47	91	47	92	0.10000E-08
156	3	48	91	48	92	0.10000E-08
157	3	48	90	49	90	0.10000E-08
158	3	49	89	49	90	0.10000E-08
159	3	49	89	50	89	0.10000E-08
160	3	50	88	50	89	0.10000E-08
161	3	50	88	51	88	0.10000E-08
162	3	50	87	51	87	0.10000E-08
163	3	51	86	51	87	0.10000E-08
164	3	51	86	52	86	0.10000E-08
165	3	52	85	52	86	0.10000E-08
166	3	52	85	53	85	0.10000E-08
167	3	53	84	53	85	0.10000E-08
168	3	53	83	54	83	0.10000E-08
169	3	54	82	54	83	0.10000E-08
170	3	54	82	55	82	0.10000E-08
171	3	55	81	55	82	0.10000E-08
172	3	62	81	63	81	0.10000E-08
173	3	63	80	63	81	0.10000E-08

174	3	64	80	64	81	0.10000E-08
175	3	65	80	65	81	0.10000E-08
176	3	66	80	66	81	0.10000E-08
177	3	67	80	67	81	0.10000E-08
178	3	68	80	68	81	0.10000E-08
179	3	69	80	69	81	0.10000E-08
180	3	70	80	70	81	0.10000E-08
181	3	72	80	73	80	0.10000E-08
182	3	72	79	73	79	0.10000E-08
183	3	73	78	73	79	0.10000E-08
184	3	73	78	74	78	0.10000E-08
185	3	73	77	74	77	0.10000E-08
186	3	74	76	74	77	0.10000E-08
187	3	74	75	75	75	0.10000E-08
188	3	75	74	75	75	0.10000E-08
189	3	75	73	76	73	0.10000E-08
190	3	76	72	76	73	0.10000E-08
191	3	76	71	77	71	0.10000E-08
192	3	76	70	77	70	0.10000E-08
193	3	76	69	77	69	0.10000E-08
194	3	76	68	77	68	0.10000E-08
195	3	76	67	77	67	0.10000E-08
196	3	76	66	76	67	0.10000E-08
197	3	75	66	76	66	0.10000E-08
198	3	75	65	75	66	0.10000E-08
199	3	74	65	74	66	0.10000E-08
200	3	73	65	74	65	0.10000E-08
201	3	73	64	73	65	0.10000E-08
202	3	72	64	73	64	0.10000E-08
203	3	72	62	73	62	0.10000E-08
204	3	73	61	73	62	0.10000E-08
205	3	74	61	75	61	0.10000E-08
206	3	75	60	75	61	0.10000E-08
207	3	76	60	76	61	0.10000E-08
208	3	76	60	77	60	0.10000E-08
209	3	77	59	77	60	0.10000E-08
210	3	78	59	78	60	0.10000E-08
211	3	79	59	80	59	0.10000E-08
212	3	80	58	80	59	0.10000E-08
213	3	81	58	81	59	0.10000E-08
214	3	82	58	83	58	0.10000E-08
215	3	83	57	83	58	0.10000E-08
216	3	84	55	85	55	0.10000E-08
217	3	84	54	85	54	0.10000E-08
218	3	84	53	85	53	0.10000E-08
219	3	85	52	85	53	0.10000E-08
220	3	85	51	86	51	0.10000E-08
221	3	85	50	86	50	0.10000E-08
222	3	85	49	86	49	0.10000E-08
223	3	86	48	86	49	0.10000E-08
224	3	86	47	87	47	0.10000E-08
225	3	87	46	87	47	0.10000E-08
226	3	95	46	96	46	0.10000E-08
227	3	96	45	96	46	0.10000E-08
228	3	97	45	97	46	0.10000E-08
229	4	47	92	47	93	0.10000E-08
230	4	46	92	47	92	0.10000E-08
231	4	47	91	47	92	0.10000E-08
232	4	48	91	48	92	0.10000E-08
233	4	48	90	49	90	0.10000E-08
234	4	49	89	49	90	0.10000E-08
235	4	49	89	50	89	0.10000E-08
236	4	50	88	50	89	0.10000E-08

237	4	50	88	51	88	0.10000E-08
238	4	50	87	51	87	0.10000E-08
239	4	51	86	51	87	0.10000E-08
240	4	51	86	52	86	0.10000E-08
241	4	52	85	52	86	0.10000E-08
242	4	52	85	53	85	0.10000E-08
243	4	53	84	53	85	0.10000E-08
244	4	53	83	54	83	0.10000E-08
245	4	54	82	54	83	0.10000E-08
246	4	54	82	55	82	0.10000E-08
247	4	55	81	55	82	0.10000E-08
248	4	62	81	63	81	0.10000E-08
249	4	63	80	63	81	0.10000E-08
250	4	64	80	64	81	0.10000E-08
251	4	65	80	65	81	0.10000E-08
252	4	66	80	66	81	0.10000E-08
253	4	67	80	67	81	0.10000E-08
254	4	68	80	68	81	0.10000E-08
255	4	69	80	69	81	0.10000E-08
256	4	70	80	70	81	0.10000E-08
257	4	72	80	73	80	0.10000E-08
258	4	72	79	73	79	0.10000E-08
259	4	73	78	73	79	0.10000E-08
260	4	73	78	74	78	0.10000E-08
261	4	73	77	74	77	0.10000E-08
262	4	74	76	74	77	0.10000E-08
263	4	74	75	75	75	0.10000E-08
264	4	75	74	75	75	0.10000E-08
265	4	75	73	76	73	0.10000E-08
266	4	76	72	76	73	0.10000E-08
267	4	76	71	77	71	0.10000E-08
268	4	76	70	77	70	0.10000E-08
269	4	76	69	77	69	0.10000E-08
270	4	76	68	77	68	0.10000E-08
271	4	76	67	77	67	0.10000E-08
272	4	76	66	76	67	0.10000E-08
273	4	75	66	76	66	0.10000E-08
274	4	75	65	75	66	0.10000E-08
275	4	74	65	74	66	0.10000E-08
276	4	73	65	74	65	0.10000E-08
277	4	73	64	73	65	0.10000E-08
278	4	72	64	73	64	0.10000E-08
279	4	72	62	73	62	0.10000E-08
280	4	73	61	73	62	0.10000E-08
281	4	74	61	75	61	0.10000E-08
282	4	75	60	75	61	0.10000E-08
283	4	76	60	76	61	0.10000E-08
284	4	76	60	77	60	0.10000E-08
285	4	77	59	77	60	0.10000E-08
286	4	78	59	78	60	0.10000E-08
287	4	79	59	80	59	0.10000E-08
288	4	80	58	80	59	0.10000E-08
289	4	81	58	81	59	0.10000E-08
290	4	82	58	83	58	0.10000E-08
291	4	83	57	83	58	0.10000E-08
292	4	84	55	85	55	0.10000E-08
293	4	84	54	85	54	0.10000E-08
294	4	84	53	85	53	0.10000E-08
295	4	85	52	85	53	0.10000E-08
296	4	85	51	86	51	0.10000E-08
297	4	85	50	86	50	0.10000E-08
298	4	85	49	86	49	0.10000E-08
299	4	86	48	86	49	0.10000E-08

300	4	86	47	87	47	0.10000E-08
301	4	87	46	87	47	0.10000E-08
302	4	95	46	96	46	0.10000E-08
303	4	96	45	96	46	0.10000E-08
304	4	97	45	97	46	0.10000E-08
305	5	47	92	47	93	0.10000E-08
306	5	46	92	47	92	0.10000E-08
307	5	47	91	47	92	0.10000E-08
308	5	48	91	48	92	0.10000E-08
309	5	48	90	49	90	0.10000E-08
310	5	49	89	49	90	0.10000E-08
311	5	49	89	50	89	0.10000E-08
312	5	50	88	50	89	0.10000E-08
313	5	50	88	51	88	0.10000E-08
314	5	50	87	51	87	0.10000E-08
315	5	51	86	51	87	0.10000E-08
316	5	51	86	52	86	0.10000E-08
317	5	52	85	52	86	0.10000E-08
318	5	52	85	53	85	0.10000E-08
319	5	53	84	53	85	0.10000E-08
320	5	53	83	54	83	0.10000E-08
321	5	54	82	54	83	0.10000E-08
322	5	54	82	55	82	0.10000E-08
323	5	55	81	55	82	0.10000E-08
324	5	62	81	63	81	0.10000E-08
325	5	63	80	63	81	0.10000E-08
326	5	64	80	64	81	0.10000E-08
327	5	65	80	65	81	0.10000E-08
328	5	66	80	66	81	0.10000E-08
329	5	67	80	67	81	0.10000E-08
330	5	68	80	68	81	0.10000E-08
331	5	69	80	69	81	0.10000E-08
332	5	70	80	70	81	0.10000E-08
333	5	72	80	73	80	0.10000E-08
334	5	72	79	73	79	0.10000E-08
335	5	73	78	73	79	0.10000E-08
336	5	73	78	74	78	0.10000E-08
337	5	73	77	74	77	0.10000E-08
338	5	74	76	74	77	0.10000E-08
339	5	74	75	75	75	0.10000E-08
340	5	75	74	75	75	0.10000E-08
341	5	75	73	76	73	0.10000E-08
342	5	76	72	76	73	0.10000E-08
343	5	76	71	77	71	0.10000E-08
344	5	76	70	77	70	0.10000E-08
345	5	76	69	77	69	0.10000E-08
346	5	76	68	77	68	0.10000E-08
347	5	76	67	77	67	0.10000E-08
348	5	76	66	76	67	0.10000E-08
349	5	75	66	76	66	0.10000E-08
350	5	75	65	75	66	0.10000E-08
351	5	74	65	74	66	0.10000E-08
352	5	73	65	74	65	0.10000E-08
353	5	73	64	73	65	0.10000E-08
354	5	72	64	73	64	0.10000E-08
355	5	72	62	73	62	0.10000E-08
356	5	73	61	73	62	0.10000E-08
357	5	74	61	75	61	0.10000E-08
358	5	75	60	75	61	0.10000E-08
359	5	76	60	76	61	0.10000E-08
360	5	76	60	77	60	0.10000E-08
361	5	77	59	77	60	0.10000E-08
362	5	78	59	78	60	0.10000E-08

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    363      5     79     59     80     59   0.10000E-08
    364      5     80     58     80     59   0.10000E-08
    365      5     81     58     81     59   0.10000E-08
    366      5     82     58     83     58   0.10000E-08
    367      5     83     57     83     58   0.10000E-08
    368      5     84     55     85     55   0.10000E-08
    369      5     84     54     85     54   0.10000E-08
    370      5     84     53     85     53   0.10000E-08
    371      5     85     52     85     53   0.10000E-08
    372      5     85     51     86     51   0.10000E-08
    373      5     85     50     86     50   0.10000E-08
    374      5     85     49     86     49   0.10000E-08
    375      5     86     48     86     49   0.10000E-08
    376      5     86     47     87     47   0.10000E-08
    377      5     87     46     87     47   0.10000E-08
    378      5     95     46     96     46   0.10000E-08
    379      5     96     45     96     46   0.10000E-08
    380      5     97     45     97     46   0.10000E-08

    380 HFB BARRIERS
1
                              STRESS PERIOD NO.    1, LENGTH =   1.000000
                              ----------------------------------------------

                                NUMBER OF TIME STEPS =     1

                                 MULTIPLIER FOR DELT =     1.000

                              INITIAL TIME STEP SIZE =   1.000000

 WELL NO.  LAYER   ROW   COL   STRESS RATE         IFACE           QFACT
CELLGRP

--------------------------------------------------------------------------------
--------------
      1      5     45     55      -3100.           0.000           1.000
1.000

      1 WELL

 DRAIN NO.  LAYER   ROW   COL     DRAIN EL.  CONDUCTANCE         IFACE
CONDFACT        CELLGRP

--------------------------------------------------------------------------------
----------------------------
      1      2     97     46       0.000           5272.           6.000
52.72           1.000
      2      3     97     46       0.000           5272.           6.000
52.72           1.000
      3      4     97     46       0.000           5272.           6.000
52.72           1.000
      4      5     97     46       0.000           5272.           6.000
52.72           1.000
      5      2     96     46       0.000           5704.           6.000
57.04           1.000
      6      3     96     46       0.000           5704.           6.000
57.04           1.000
      7      4     96     46       0.000           5704.           6.000
57.04           1.000
      8      5     96     46       0.000           5704.           6.000
57.04           1.000
      9      2     95     46       0.000           5704.           6.000
57.04           1.000
```

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     10      3     95     46       0.000           5704.           6.000
57.04           1.000
     11      4     95     46       0.000           5704.           6.000
57.04           1.000
     12      5     95     46       0.000           5704.           6.000
57.04           1.000
     13      2     94     46       0.000           5704.           6.000
57.04           1.000
     14      3     94     46       0.000           5704.           6.000
57.04           1.000
     15      4     94     46       0.000           5704.           6.000
57.04           1.000
     16      5     94     46       0.000           5704.           6.000
57.04           1.000
     17      2     93     46       0.000           5704.           6.000
57.04           1.000
     18      3     93     46       0.000           5704.           6.000
57.04           1.000
     19      4     93     46       0.000           5704.           6.000
57.04           1.000
     20      5     93     46       0.000           5704.           6.000
57.04           1.000
     21      2     92     46       0.000           5704.           6.000
57.04           1.000
     22      3     92     46       0.000           5704.           6.000
57.04           1.000
     23      4     92     46       0.000           5704.           6.000
57.04           1.000
     24      5     92     46       0.000           5704.           6.000
57.04           1.000
     25      2     91     46       0.000           5704.           6.000
57.04           1.000
     26      3     91     46       0.000           5704.           6.000
57.04           1.000
     27      4     91     46       0.000           5704.           6.000
57.04           1.000
     28      5     91     46       0.000           5704.           6.000
57.04           1.000
     29      2     90     46       0.000           5704.           6.000
57.04           1.000
     30      3     90     46       0.000           5704.           6.000
57.04           1.000
     31      4     90     46       0.000           5704.           6.000
57.04           1.000
     32      5     90     46       0.000           5704.           6.000
57.04           1.000
     33      2     89     46       0.000           5704.           6.000
57.04           1.000
     34      3     89     46       0.000           5704.           6.000
57.04           1.000
     35      4     89     46       0.000           5704.           6.000
57.04           1.000
     36      5     89     46       0.000           5704.           6.000
57.04           1.000
     37      2     88     46       0.000           5704.           6.000
57.04           1.000
     38      3     88     46       0.000           5704.           6.000
57.04           1.000
     39      4     88     46       0.000           5704.           6.000
57.04           1.000
     40      5     88     46       0.000           5704.           6.000
57.04           1.000
     41      2     87     46       0.000           5914.           6.000
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59.14              1.000
     42       3     87      46       0.000            5914.            6.000
59.14              1.000
     43       4     87      46       0.000            5914.            6.000
59.14              1.000
     44       5     87      46       0.000            5914.            6.000
59.14              1.000
     45       2     87      47       0.000            524.5            6.000
5.245              1.000
     46       3     87      47       0.000            524.5            6.000
5.245              1.000
     47       4     87      47       0.000            524.5            6.000
5.245              1.000
     48       5     87      47       0.000            524.5            6.000
5.245              1.000
     49       2     86      47       0.000            4399.            6.000
43.99              1.000
     50       3     86      47       0.000            4399.            6.000
43.99              1.000
     51       4     86      47       0.000            4399.            6.000
43.99              1.000
     52       5     86      47       0.000            4399.            6.000
43.99              1.000
     53       2     86      48       0.000            4924.            6.000
49.24              1.000
     54       3     86      48       0.000            4924.            6.000
49.24              1.000
     55       4     86      48       0.000            4924.            6.000
49.24              1.000
     56       5     86      48       0.000            4924.            6.000
49.24              1.000
     57       2     86      49       0.000            4924.            6.000
49.24              1.000
     58       3     86      49       0.000            4924.            6.000
49.24              1.000
     59       4     86      49       0.000            4924.            6.000
49.24              1.000
     60       5     86      49       0.000            4924.            6.000
49.24              1.000
     61       2     86      50       0.000            4924.            6.000
49.24              1.000
     62       3     86      50       0.000            4924.            6.000
49.24              1.000
     63       4     86      50       0.000            4924.            6.000
49.24              1.000
     64       5     86      50       0.000            4924.            6.000
49.24              1.000
     65       2     86      51       0.000            1675.            6.000
16.75              1.000
     66       3     86      51       0.000            1675.            6.000
16.75              1.000
     67       4     86      51       0.000            1675.            6.000
16.75              1.000
     68       5     86      51       0.000            1675.            6.000
16.75              1.000
     69       2     85      51       0.000            3249.            6.000
32.49              1.000
     70       3     85      51       0.000            3249.            6.000
32.49              1.000
     71       4     85      51       0.000            3249.            6.000
32.49              1.000
     72       5     85      51       0.000            3249.            6.000
32.49              1.000
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     73      2     85     52       0.000           4924.           6.000
49.24           1.000
     74      3     85     52       0.000           4924.           6.000
49.24           1.000
     75      4     85     52       0.000           4924.           6.000
49.24           1.000
     76      5     85     52       0.000           4924.           6.000
49.24           1.000
     77      2     85     53       0.000           4924.           6.000
49.24           1.000
     78      3     85     53       0.000           4924.           6.000
49.24           1.000
     79      4     85     53       0.000           4924.           6.000
49.24           1.000
     80      5     85     53       0.000           4924.           6.000
49.24           1.000
     81      2     85     54       0.000           4924.           6.000
49.24           1.000
     82      3     85     54       0.000           4924.           6.000
49.24           1.000
     83      4     85     54       0.000           4924.           6.000
49.24           1.000
     84      5     85     54       0.000           4924.           6.000
49.24           1.000
     85      2     85     55       0.000           2825.           6.000
28.25           1.000
     86      3     85     55       0.000           2825.           6.000
28.25           1.000
     87      4     85     55       0.000           2825.           6.000
28.25           1.000
     88      5     85     55       0.000           2825.           6.000
28.25           1.000
     89      2     84     55       0.000           2098.           6.000
20.98           1.000
     90      3     84     55       0.000           2098.           6.000
20.98           1.000
     91      4     84     55       0.000           2098.           6.000
20.98           1.000
     92      5     84     55       0.000           2098.           6.000
20.98           1.000
     93      2     84     56       0.000           4924.           6.000
49.24           1.000
     94      3     84     56       0.000           4924.           6.000
49.24           1.000
     95      4     84     56       0.000           4924.           6.000
49.24           1.000
     96      5     84     56       0.000           4924.           6.000
49.24           1.000
     97      2     84     57       0.000           6836.           6.000
68.36           1.000
     98      3     84     57       0.000           6836.           6.000
68.36           1.000
     99      4     84     57       0.000           6836.           6.000
68.36           1.000
    100      5     84     57       0.000           6836.           6.000
68.36           1.000
    101      2     83     57       0.000           70.83           6.000
0.7083          1.000
    102      3     83     57       0.000           70.83           6.000
0.7083          1.000
    103      4     83     57       0.000           70.83           6.000
0.7083          1.000
    104      5     83     57       0.000           70.83           6.000
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59.74             1.000
    110       3     82      58       0.000            5974.            6.000
59.74             1.000
    111       4     82      58       0.000            5974.            6.000
59.74             1.000
    112       5     82      58       0.000            5974.            6.000
59.74             1.000
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    114       3     81      58       0.000            3951.            6.000
39.51             1.000
    115       4     81      58       0.000            3951.            6.000
39.51             1.000
    116       5     81      58       0.000            3951.            6.000
39.51             1.000
    117       2     81      59       0.000            2023.            6.000
20.23             1.000
    118       3     81      59       0.000            2023.            6.000
20.23             1.000
    119       4     81      59       0.000            2023.            6.000
20.23             1.000
    120       5     81      59       0.000            2023.            6.000
20.23             1.000
    121       2     80      59       0.000            5974.            6.000
59.74             1.000
    122       3     80      59       0.000            5974.            6.000
59.74             1.000
    123       4     80      59       0.000            5974.            6.000
59.74             1.000
    124       5     80      59       0.000            5974.            6.000
59.74             1.000
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59.74             1.000
    126       3     79      59       0.000            5974.            6.000
59.74             1.000
    127       4     79      59       0.000            5974.            6.000
59.74             1.000
    128       5     79      59       0.000            5974.            6.000
59.74             1.000
    129       2     78      59       0.000            1857.            6.000
18.57             1.000
    130       3     78      59       0.000            1857.            6.000
18.57             1.000
    131       4     78      59       0.000            1857.            6.000
18.57             1.000
    132       5     78      59       0.000            1857.            6.000
18.57             1.000
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41.18             1.000
    134       3     78      60       0.000            4118.            6.000
41.18             1.000
    135       4     78      60       0.000            4118.            6.000
41.18             1.000
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59.74             1.000
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    140       5     77      60        0.000            5974.            6.000
59.74             1.000
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    146       3     76      61        0.000            237.6            6.000
2.376             1.000
    147       4     76      61        0.000            237.6            6.000
2.376             1.000
    148       5     76      61        0.000            237.6            6.000
2.376             1.000
    149       2     75      61        0.000            5974.            6.000
59.74             1.000
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59.74             1.000
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59.74             1.000
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59.74             1.000
    155       4     74      61        0.000            5974.            6.000
59.74             1.000
    156       5     74      61        0.000            5974.            6.000
59.74             1.000
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36.43             1.000
    159       4     73      61        0.000            3643.            6.000
36.43             1.000
    160       5     73      61        0.000            3643.            6.000
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23.32             1.000
    163       4     73      62        0.000            2332.            6.000
23.32             1.000
    164       5     73      62        0.000            2332.            6.000
23.32             1.000
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42.68             1.000
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42.68             1.000
    167       4     72      62        0.000            4268.            6.000
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42.68            1.000
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42.68            1.000
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47.36            1.000
    172      5     72      63       0.000           4736.           6.000
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27.86            1.000
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    179      4     73      64       0.000           4241.           6.000
42.41            1.000
    180      5     73      64       0.000           4241.           6.000
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    184      5     73      65       0.000           2352.           6.000
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    187      4     74      65       0.000           6592.           6.000
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33.23            1.000
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6.730            1.000
    208      5     77     67       0.000            673.0            6.000
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    216      5     77     69       0.000            4753.            6.000
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29.09            1.000
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    227      4     76     71       0.000            2476.            6.000
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    235      4     76      73       0.000            3797.            6.000
37.97            1.000
    236      5     76      73       0.000            3797.            6.000
37.97            1.000
    237      2     75      73       0.000            1627.            6.000
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    238      3     75      73       0.000            1627.            6.000
16.27            1.000
    239      4     75      73       0.000            1627.            6.000
16.27            1.000
    240      5     75      73       0.000            1627.            6.000
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54.24            1.000
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54.24            1.000
    244      5     75      74       0.000            5424.            6.000
54.24            1.000
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46.46            1.000
    246      3     75      75       0.000            4646.            6.000
46.46            1.000
    247      4     75      75       0.000            4646.            6.000
46.46            1.000
    248      5     75      75       0.000            4646.            6.000
46.46            1.000
    249      2     74      75       0.000            777.6            6.000
7.776            1.000
    250      3     74      75       0.000            777.6            6.000
7.776            1.000
    251      4     74      75       0.000            777.6            6.000
7.776            1.000
    252      5     74      75       0.000            777.6            6.000
7.776            1.000
    253      2     74      76       0.000            5424.            6.000
54.24            1.000
    254      3     74      76       0.000            5424.            6.000
54.24            1.000
    255      4     74      76       0.000            5424.            6.000
54.24            1.000
    256      5     74      76       0.000            5424.            6.000
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54.24            1.000
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54.24            1.000
    259      4     74      77       0.000            5424.            6.000
54.24            1.000
    260      5     74      77       0.000            5424.            6.000
54.24            1.000
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0.7145            1.000
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0.7145            1.000
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0.7145            1.000
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53.52            1.000
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54.24            1.000
    271      4     73     79       0.000            5424.            6.000
54.24            1.000
    272      5     73     79       0.000            5424.            6.000
54.24            1.000
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9.205            1.000
    274      3     73     80       0.000            920.5            6.000
9.205            1.000
    275      4     73     80       0.000            920.5            6.000
9.205            1.000
    276      5     73     80       0.000            920.5            6.000
9.205            1.000
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76.13            1.000
    278      3     72     80       0.000            7613.            6.000
76.13            1.000
    279      4     72     80       0.000            7613.            6.000
76.13            1.000
    280      5     72     80       0.000            7613.            6.000
76.13            1.000
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    282      3     71     80       0.000            5709.            6.000
57.09            1.000
    283      4     71     80       0.000            5709.            6.000
57.09            1.000
    284      5     71     80       0.000            5709.            6.000
57.09            1.000
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33.24            1.000
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33.24            1.000
    287      4     70     80       0.000            3324.            6.000
33.24            1.000
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    290      3     70     81       0.000            2385.            6.000
23.85            1.000
    291      4     70     81       0.000            2385.            6.000
23.85            1.000
    292      5     70     81       0.000            2385.            6.000
23.85            1.000
    293      2     69     81       0.000            5709.            6.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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57.09            1.000
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32.96            1.000
    351      4     55     81       0.000            3296.            6.000
32.96            1.000
    352      5     55     81       0.000            3296.            6.000
32.96            1.000
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38.17            1.000
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38.17            1.000
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24.67            1.000
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24.67            1.000
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24.67            1.000
    360      5     54      82       0.000            2467.            6.000
24.67            1.000
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62.07            1.000
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62.07            1.000
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62.07            1.000
    364      5     54      83       0.000            6207.            6.000
62.07            1.000
    365      2     53      83       0.000            77.12            6.000
0.7712            1.000
    366      3     53      83       0.000            77.12            6.000
0.7712            1.000
    367      4     53      83       0.000            77.12            6.000
0.7712            1.000
    368      5     53      83       0.000            77.12            6.000
0.7712            1.000
    369      2     53      84       0.000            6284.            6.000
62.84            1.000
    370      3     53      84       0.000            6284.            6.000
62.84            1.000
    371      4     53      84       0.000            6284.            6.000
62.84            1.000
    372      5     53      84       0.000            6284.            6.000
62.84            1.000
    373      2     53      85       0.000            2312.            6.000
23.12            1.000
    374      3     53      85       0.000            2312.            6.000
23.12            1.000
    375      4     53      85       0.000            2312.            6.000
23.12            1.000
    376      5     53      85       0.000            2312.            6.000
23.12            1.000
    377      2     52      85       0.000            3972.            6.000
39.72            1.000
    378      3     52      85       0.000            3972.            6.000
39.72            1.000
    379      4     52      85       0.000            3972.            6.000
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    380      5     52      85       0.000            3972.            6.000
39.72            1.000
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47.02            1.000
    382      3     52      86       0.000            4702.            6.000
47.02            1.000
    383      4     52      86       0.000            4702.            6.000
47.02            1.000
    384      5     52      86       0.000            4702.            6.000
47.02            1.000
    385      2     51      86       0.000            1582.            6.000
15.82            1.000
    386      3     51      86       0.000            1582.            6.000
15.82            1.000
    387      4     51      86       0.000            1582.            6.000
15.82            1.000
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    389      2     51     87       0.000            6284.            6.000
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    390      3     51     87       0.000            6284.            6.000
62.84            1.000
    391      4     51     87       0.000            6284.            6.000
62.84            1.000
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8.072            1.000
    394      3     51     88       0.000            807.2            6.000
8.072            1.000
    395      4     51     88       0.000            807.2            6.000
8.072            1.000
    396      5     51     88       0.000            807.2            6.000
8.072            1.000
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54.77            1.000
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54.77            1.000
    399      4     50     88       0.000            5477.            6.000
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54.77            1.000
    401      2     50     89       0.000            3197.            6.000
31.97            1.000
    402      3     50     89       0.000            3197.            6.000
31.97            1.000
    403      4     50     89       0.000            3197.            6.000
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    404      5     50     89       0.000            3197.            6.000
31.97            1.000
    405      2     49     89       0.000            3087.            6.000
30.87            1.000
    406      3     49     89       0.000            3087.            6.000
30.87            1.000
    407      4     49     89       0.000            3087.            6.000
30.87            1.000
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30.87            1.000
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55.86            1.000
    410      3     49     90       0.000            5586.            6.000
55.86            1.000
    411      4     49     90       0.000            5586.            6.000
55.86            1.000
    412      5     49     90       0.000            5586.            6.000
55.86            1.000
    413      2     48     90       0.000            697.8            6.000
6.978            1.000
    414      3     48     90       0.000            697.8            6.000
6.978            1.000
    415      4     48     90       0.000            697.8            6.000
6.978            1.000
    416      5     48     90       0.000            697.8            6.000
6.978            1.000
    417      2     48     91       0.000            6284.            6.000
62.84            1.000
    418      3     48     91       0.000            6284.            6.000
62.84            1.000
    419      4     48     91       0.000            6284.            6.000
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62.84            1.000
    420      5     48     91       0.000           6284.           6.000
62.84            1.000
    421      2     48     92       0.000           1692.           6.000
16.92            1.000
    422      3     48     92       0.000           1692.           6.000
16.92            1.000
    423      4     48     92       0.000           1692.           6.000
16.92            1.000
    424      5     48     92       0.000           1692.           6.000
16.92            1.000
    425      2     47     92       0.000           4592.           6.000
45.92            1.000
    426      3     47     92       0.000           4592.           6.000
45.92            1.000
    427      4     47     92       0.000           4592.           6.000
45.92            1.000
    428      5     47     92       0.000           4592.           6.000
45.92            1.000
    429      2     47     93       0.000           114.5           6.000
1.145            1.000
    430      3     47     93       0.000           114.5           6.000
1.145            1.000
    431      4     47     93       0.000           114.5           6.000
1.145            1.000
    432      5     47     93       0.000           114.5           6.000
1.145            1.000

    432 DRAINS

 BOUND. NO. LAYER   ROW   COL     STAGE      CONDUCTANCE         IFACE
CONDFACT        CELLGRP

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----------------------------
      1      5     18     74       3700.           3.986           6.000
0.6643           1.000
      2      5     18     73       3700.           284.7           6.000
47.45            1.000
      3      5     18     72       3700.           284.7           6.000
47.45            1.000
      4      5     18     71       3700.           284.7           6.000
47.45            1.000
      5      5     18     70       3700.           284.7           6.000
47.45            1.000
      6      5     18     69       3700.           284.7           6.000
47.45            1.000
      7      5     18     68       3700.           284.7           6.000
47.45            1.000
      8      5     18     67       3700.           150.4           6.000
25.07            1.000
      9      5     17     67       3700.           134.3           6.000
22.38            1.000
     10      5     17     66       3700.           284.7           6.000
47.45            1.000
     11      5     17     65       3701.           284.7           6.000
47.45            1.000
     12      5     17     64       3701.           284.7           6.000
47.45            1.000
     13      5     17     63       3701.           284.7           6.000
47.45            1.000
     14      5     17     62       3701.           284.7           6.000
47.45            1.000
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47.45            1.000
     16       5      17      60        3701.            284.7            6.000
47.45            1.000
     17       5      17      59        3701.            284.7            6.000
47.45            1.000
     18       5      17      58        3701.            284.7            6.000
47.45            1.000
     19       5      17      57        3701.            284.7            6.000
47.45            1.000
     20       5      17      56        3701.            231.7            6.000
38.62            1.000
     21       5      16      56        3701.            342.6            6.000
57.10            1.000
     22       5      15      56        3701.            342.6            6.000
57.10            1.000
     23       5      14      56        3701.            342.6            6.000
57.10            1.000
     24       5      13      56        3701.            223.0            6.000
37.17            1.000
     25       5      13      57        3701.            119.6            6.000
19.93            1.000
     26       5      12      57        3702.            342.6            6.000
57.10            1.000
     27       5      11      57        3702.            342.6            6.000
57.10            1.000
     28       5      10      57        3702.            342.6            6.000
57.10            1.000
     29       5       9      57        3702.            342.6            6.000
57.10            1.000
     30       5       8      57        3702.            342.6            6.000
57.10            1.000
     31       5       7      57        3702.            342.6            6.000
57.10            1.000
     32       5       6      57        3702.            342.6            6.000
57.10            1.000
     33       5       5      57        3702.            342.6            6.000
57.10            1.000
     34       5       4      57        3702.            342.6            6.000
57.10            1.000
     35       5       3      57        3702.            236.3            6.000
39.39            1.000
     36       5       3      56        3702.            284.4            6.000
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     37       5       3      55        3702.            284.4            6.000
47.40            1.000
     38       5       3      54        3702.            284.4            6.000
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     39       5       3      53        3702.            284.4            6.000
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47.40            1.000
     41       5       3      51        3703.            284.4            6.000
47.40            1.000
     42       5       3      50        3703.            284.4            6.000
47.40            1.000
     43       5       3      49        3703.            284.4            6.000
47.40            1.000
     44       5       3      48        3703.            284.4            6.000
47.40            1.000
     45       5       3      47        3703.            284.4            6.000
47.40            1.000
     46       5       3      46        3703.            284.4            6.000
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     47       5       3      45        3703.            284.4            6.000
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     49       5       3      43        3703.            284.4            6.000
47.40              1.000
     50       5       3      42        3703.            284.4            6.000
47.40              1.000
     51       5       3      41        3703.            284.4            6.000
47.40              1.000
     52       5       3      40        3703.            284.4            6.000
47.40              1.000
     53       5       3      39        3703.            284.4            6.000
47.40              1.000
     54       5       3      38        3703.            284.4            6.000
47.40              1.000
     55       5       3      37        3704.            284.4            6.000
47.40              1.000
     56       5       3      36        3704.            284.4            6.000
47.40              1.000
     57       5       3      35        3704.            284.4            6.000
47.40              1.000
     58       5       3      34        3704.            258.2            6.000
43.03              1.000
     59       5       2      34        3704.            26.26            6.000
4.377              1.000
     60       5       2      33        3704.            284.4            6.000
47.40              1.000
     61       5       2      32        3704.            284.4            6.000
47.40              1.000
     62       5       2      31        3704.            284.4            6.000
47.40              1.000
     63       5       2      30        3704.            284.4            6.000
47.40              1.000
     64       5       2      29        3704.            284.4            6.000
47.40              1.000
     65       5       2      28        3704.            284.4            6.000
47.40              1.000
     66       5       2      27        3704.            284.4            6.000
47.40              1.000
     67       5       2      26        3704.            284.4            6.000
47.40              1.000
     68       5       2      25        3704.            284.4            6.000
47.40              1.000
     69       5       2      24        3704.            284.4            6.000
47.40              1.000
     70       5       2      23        3704.            284.4            6.000
47.40              1.000
     71       5       2      22        3704.            284.4            6.000
47.40              1.000
     72       5       2      21        3705.            284.4            6.000
47.40              1.000
     73       5       2      20        3705.            284.4            6.000
47.40              1.000
     74       5       2      19        3705.            284.4            6.000
47.40              1.000
     75       5       2      18        3705.            284.4            6.000
47.40              1.000
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47.40              1.000
     77       5       2      16        3705.            284.4            6.000
47.40              1.000
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     81       5      65      28        3711.            2615.            6.000
57.09            2.000
     82       5      64      28        3711.            2615.            6.000
57.09            2.000
     83       5      63      28        3711.            2615.            6.000
57.09            2.000
     84       5      62      28        3711.            2615.            6.000
57.09            2.000
     85       5      61      28        3711.            2330.            6.000
50.86            2.000
     86       5      61      29        3711.            285.0            6.000
6.221            2.000
     87       5      60      29        3710.            2615.            6.000
57.09            2.000
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57.09            2.000
     89       5      58      29        3710.            2615.            6.000
57.09            2.000
     90       5      57      29        3710.            2615.            6.000
57.09            2.000
     91       5      56      29        3710.            2615.            6.000
57.09            2.000
     92       5      55      29        3710.            2615.            6.000
57.09            2.000
     93       5      54      29        3710.            2615.            6.000
57.09            2.000
     94       5      53      29        3710.            2615.            6.000
57.09            2.000
     95       5      52      29        3710.            2615.            6.000
57.09            2.000
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57.09            2.000
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57.09            2.000
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45.82            2.000
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11.27            2.000
    104       5      44      30        3709.            2615.            6.000
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    106       5      42      30        3709.            2615.            6.000
57.09            2.000
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57.09            2.000
    109       5      39      30        3709.            2615.            6.000
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57.09		2.000					
110	5	38	30	3709.	2615.	6.000	
57.09		2.000					
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57.09		2.000					
112	5	36	30	3708.	2615.	6.000	
57.09		2.000					
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57.09		2.000					
114	5	34	30	3708.	2615.	6.000	
57.09		2.000					
115	5	33	30	3708.	2615.	6.000	
57.09		2.000					
116	5	32	30	3708.	2615.	6.000	
57.09		2.000					
117	5	31	30	3708.	2689.	6.000	
58.69		2.000					
118	5	30	30	3708.	2874.	6.000	
62.75		2.000					
119	5	29	30	3708.	847.6	6.000	
18.50		2.000					
120	5	29	29	3708.	2027.	6.000	
44.25		2.000					
121	5	28	29	3708.	2874.	6.000	
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122	5	27	29	3708.	289.3	6.000	
6.315		2.000					
123	5	27	28	3707.	2585.	6.000	
56.44		2.000					
124	5	26	28	3707.	2605.	6.000	
56.88		2.000					
125	5	26	27	3707.	269.1	6.000	
5.875		2.000					
126	5	25	27	3707.	2874.	6.000	
62.75		2.000					
127	5	24	27	3707.	2047.	6.000	
44.69		2.000					
128	5	24	26	3707.	827.5	6.000	
18.07		2.000					
129	5	23	26	3707.	2874.	6.000	
62.75		2.000					
130	5	22	26	3707.	1488.	6.000	
32.50		2.000					
131	5	22	25	3707.	1386.	6.000	
30.26		2.000					
132	5	21	25	3707.	2874.	6.000	
62.75		2.000					
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20.31		2.000					
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42.45		2.000					
135	5	19	24	3707.	2874.	6.000	
62.75		2.000					
136	5	18	24	3707.	371.8	6.000	
8.116		2.000					
137	5	18	23	3707.	2503.	6.000	
54.64		2.000					
138	5	17	23	3707.	2688.	6.000	
58.68		2.000					
139	5	17	22	3706.	186.6	6.000	
4.074		2.000					
140	5	16	22	3706.	2874.	6.000	
62.75		2.000					

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    141       5      15      22        3706.            2129.            6.000
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    142       5      15      21        3706.            745.0            6.000
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62.75             2.000
    144       5      13      21        3706.            1571.            6.000
34.30             2.000
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28.45             2.000
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62.75             2.000
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22.11             2.000
    148       5      11      19        3706.            1862.            6.000
40.64             2.000
    149       5      10      19        3706.            2874.            6.000
62.75             2.000
    150       5       9      19        3706.            454.3            6.000
9.917             2.000
    151       5       9      18        3706.            2420.            6.000
52.83             2.000
    152       5       8      18        3706.            2770.            6.000
60.48             2.000
    153       5       8      17        3706.            104.1            6.000
2.273             2.000
    154       5       7      17        3706.            2874.            6.000
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48.29             2.000
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14.46             2.000
    157       5       5      16        3705.            2874.            6.000
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62.75             2.000
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23.91             2.000
    162       5       2      14        3705.            901.1            6.000
19.67             2.000
    163       5      97      46        3704.            1813.            6.000
32.08             3.000
    164       5      97      45        3704.            2081.            6.000
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    165       5      96      45        3704.            2069.            6.000
36.62             3.000
    166       5      96      44        3704.            2144.            6.000
37.95             3.000
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35.51             3.000
    168       5      95      43        3705.            2207.            6.000
39.06             3.000
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    170       5      94      42        3705.            2270.            6.000
40.17             3.000
    171       5      93      42        3705.            1880.            6.000
33.29             3.000
    172       5      93      41        3705.            2332.            6.000
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41.29            3.000
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32.17            3.000
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29.95            3.000
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44.62            3.000
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    180      5     89     37       3706.           2584.           6.000
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27.72            3.000
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57.05            3.000
    186      5     84     36       3707.           3223.           6.000
57.05            3.000
    187      5     83     36       3707.           3223.           6.000
57.05            3.000
    188      5     82     36       3707.           3223.           6.000
57.05            3.000
    189      5     81     36       3707.           3223.           6.000
57.05            3.000
    190      5     80     36       3707.           3223.           6.000
57.05            3.000
    191      5     79     36       3708.           3223.           6.000
57.05            3.000
    192      5     78     36       3708.           3223.           6.000
57.05            3.000
    193      5     77     36       3708.           3223.           6.000
57.05            3.000
    194      5     76     36       3708.           3223.           6.000
57.05            3.000
    195      5     75     36       3708.           3223.           6.000
57.05            3.000
    196      5     74     36       3708.           3223.           6.000
57.05            3.000
    197      5     73     36       3709.           3223.           6.000
57.05            3.000
    198      5     72     36       3709.           1681.           6.000
29.76            3.000
    199      5     72     37       3709.           1541.           6.000
27.28            3.000
    200      5     71     37       3709.           3223.           6.000
57.05            3.000
    201      5     70     37       3709.           3223.           6.000
57.05            3.000
    202      5     69     37       3709.           3223.           6.000
57.05            3.000
    203      5     68     37       3709.           3223.           6.000
57.05            3.000
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    204       5     67      37       3710.           3223.           6.000
57.05            3.000
    205       5     66      37       3710.           1527.           6.000
27.03            3.000
    206       5     66      36       3710.           2682.           6.000
47.48            3.000
    207       5     66      35       3710.           2682.           6.000
47.48            3.000
    208       5     66      34       3710.           2682.           6.000
47.48            3.000
    209       5     66      33       3710.           2682.           6.000
47.48            3.000
    210       5     66      32       3710.           2682.           6.000
47.48            3.000
    211       5     66      31       3711.           2682.           6.000
47.48            3.000
    212       5     66      30       3711.           2682.           6.000
47.48            3.000
    213       5     66      29       3711.           2682.           6.000
47.48            3.000
    214       5     66      28       3711.           862.7           6.000
15.27            3.000
    215       5     47      93       3705.         0.1811E-01        6.000
1.811            4.000
    216       5     47      92       3705.         0.2785            6.000
27.85            4.000
    217       5     46      92       3705.         0.6485            6.000
64.85            4.000
    218       5     45      92       3705.         0.6669E-01        6.000
6.669            4.000
    219       5     45      91       3705.         0.5818            6.000
58.18            4.000
    220       5     44      91       3705.         0.4118            6.000
41.18            4.000
    221       5     44      90       3704.         0.2366            6.000
23.66            4.000
    222       5     43      90       3704.         0.6485            6.000
64.85            4.000
    223       5     42      90       3704.         0.1085            6.000
10.85            4.000
    224       5     42      89       3704.         0.5400            6.000
54.00            4.000
    225       5     41      89       3704.         0.4536            6.000
45.36            4.000
    226       5     41      88       3704.         0.1948            6.000
19.48            4.000
    227       5     40      88       3704.         0.6485            6.000
64.85            4.000
    228       5     39      88       3704.         0.1503            6.000
15.03            4.000
    229       5     39      87       3704.         0.4982            6.000
49.82            4.000
    230       5     38      87       3703.         0.4954            6.000
49.54            4.000
    231       5     38      86       3703.         0.1530            6.000
15.30            4.000
    232       5     37      86       3703.         0.6485            6.000
64.85            4.000
    233       5     36      86       3703.         0.1921            6.000
19.21            4.000
    234       5     36      85       3703.         0.4564            6.000
45.64            4.000
    235       5     35      85       3703.         0.5372            6.000
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53.72            4.000
    236      5     35     84       3703.          0.1112          6.000
11.12            4.000
    237      5     34     84       3703.          0.6485          6.000
64.85            4.000
    238      5     33     84       3703.          0.2339          6.000
23.39            4.000
    239      5     33     83       3703.          0.4146          6.000
41.46            4.000
    240      5     32     83       3702.          0.5790          6.000
57.90            4.000
    241      5     32     82       3702.          0.6944E-01      6.000
6.944            4.000
    242      5     31     82       3702.          0.6485          6.000
64.85            4.000
    243      5     30     82       3702.          0.2757          6.000
27.57            4.000
    244      5     30     81       3702.          0.3728          6.000
37.28            4.000
    245      5     29     81       3702.          0.6208          6.000
62.08            4.000
    246      5     29     80       3702.          0.2763E-01      6.000
2.763            4.000
    247      5     28     80       3702.          0.6485          6.000
64.85            4.000
    248      5     27     80       3702.          0.3175          6.000
31.75            4.000
    249      5     27     79       3702.          0.3310          6.000
33.10            4.000
    250      5     26     79       3701.          0.6485          6.000
64.85            4.000
    251      5     25     79       3701.          0.1417E-01      6.000
1.417            4.000
    252      5     25     78       3701.          0.6343          6.000
63.43            4.000
    253      5     24     78       3701.          0.3593          6.000
35.93            4.000
    254      5     24     77       3701.          0.2892          6.000
28.92            4.000
    255      5     23     77       3701.          0.6485          6.000
64.85            4.000
    256      5     22     77       3701.          0.5597E-01      6.000
5.597            4.000
    257      5     22     76       3701.          0.5925          6.000
59.25            4.000
    258      5     21     76       3701.          0.4011          6.000
40.11            4.000
    259      5     21     75       3700.          0.2474          6.000
24.74            4.000
    260      5     20     75       3700.          0.6485          6.000
64.85            4.000
    261      5     19     75       3700.          0.9778E-01      6.000
9.778            4.000
    262      5     19     74       3700.          0.5507          6.000
55.07            4.000
    263      5     18     74       3700.          0.4290          6.000
42.90            4.000

    263 GHB CELLS

 CHD NO.   LAYER   ROW   COL    START HEAD        END HEAD
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      1      1     47     93       690.6            690.6
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2	1	47	92	1110.	1110.
3	1	48	92	1783.	1783.
4	1	48	91	1784.	1784.
5	1	48	90	1785.	1785.
6	1	49	90	1785.	1785.
7	1	49	89	1786.	1786.
8	1	50	89	1786.	1786.
9	1	50	88	1787.	1787.
10	1	51	88	1787.	1787.
11	1	51	87	1788.	1788.
12	1	51	86	1789.	1789.
13	1	52	86	1789.	1789.
14	1	52	85	1790.	1790.
15	1	53	85	1790.	1790.
16	1	53	84	1791.	1791.
17	1	53	83	1792.	1792.
18	1	54	83	1792.	1792.
19	1	54	82	1793.	1793.
20	1	55	82	1793.	1793.
21	1	55	81	1794.	1794.
22	1	56	81	1795.	1795.
23	1	57	81	1796.	1796.
24	1	58	81	1796.	1796.
25	1	59	81	1797.	1797.
26	1	60	81	1798.	1798.
27	1	61	81	1799.	1799.
28	1	62	81	1800.	1800.
29	1	63	81	1801.	1801.
30	1	64	81	1802.	1802.
31	1	65	81	1803.	1803.
32	1	66	81	1804.	1804.
33	1	67	81	1805.	1805.
34	1	68	81	1806.	1806.
35	1	69	81	1807.	1807.
36	1	70	81	1807.	1807.
37	1	70	80	1808.	1808.
38	1	71	80	1808.	1808.
39	1	72	80	1809.	1809.
40	1	73	80	1810.	1810.
41	1	73	79	1811.	1811.
42	1	73	78	1811.	1811.
43	1	74	78	1812.	1812.
44	1	74	77	1812.	1812.
45	1	74	76	1813.	1813.
46	1	74	75	1814.	1814.
47	1	75	75	1814.	1814.
48	1	75	74	1815.	1815.
49	1	75	73	1816.	1816.
50	1	76	73	1816.	1816.
51	1	76	72	1817.	1817.
52	1	76	71	1817.	1817.
53	1	77	71	1818.	1818.
54	1	77	70	1818.	1818.
55	1	77	69	1819.	1819.
56	1	77	68	1820.	1820.
57	1	77	67	1820.	1820.
58	1	76	67	1821.	1821.
59	1	76	66	1822.	1822.
60	1	75	66	1822.	1822.
61	1	75	65	1823.	1823.
62	1	74	65	1823.	1823.
63	1	73	65	1824.	1824.
64	1	73	64	1825.	1825.

65	1	72	64	1825.	1825.
66	1	72	63	1826.	1826.
67	1	72	62	1827.	1827.
68	1	73	62	1827.	1827.
69	1	73	61	1828.	1828.
70	1	74	61	1828.	1828.
71	1	75	61	1829.	1829.
72	1	76	61	1830.	1830.
73	1	76	60	1830.	1830.
74	1	77	60	1831.	1831.
75	1	78	60	1832.	1832.
76	1	78	59	1832.	1832.
77	1	79	59	1833.	1833.
78	1	80	59	1834.	1834.
79	1	81	59	1835.	1835.
80	1	81	58	1835.	1835.
81	1	82	58	1836.	1836.
82	1	83	58	1837.	1837.
83	1	83	57	1837.	1837.
84	1	84	57	1838.	1838.
85	1	84	56	1839.	1839.
86	1	84	55	1839.	1839.
87	1	85	55	1840.	1840.
88	1	85	54	1840.	1840.
89	1	85	53	1841.	1841.
90	1	85	52	1842.	1842.
91	1	85	51	1843.	1843.
92	1	86	51	1843.	1843.
93	1	86	50	1844.	1844.
94	1	86	49	1844.	1844.
95	1	86	48	1845.	1845.
96	1	86	47	1846.	1846.
97	1	87	47	1846.	1846.
98	1	87	46	151.7	151.7
99	1	2	14	541.2	541.2
100	1	2	15	1220.	1220.
101	1	2	16	1834.	1834.
102	1	2	17	1833.	1833.
103	1	2	18	1833.	1833.
104	1	2	19	1832.	1832.
105	1	2	20	1832.	1832.
106	1	2	21	1831.	1831.
107	1	2	22	1831.	1831.
108	1	2	23	1830.	1830.
109	1	2	24	1830.	1830.
110	1	2	25	1829.	1829.
111	1	2	26	1828.	1828.
112	1	2	27	1828.	1828.
113	1	2	28	1827.	1827.
114	1	2	29	1827.	1827.
115	1	2	30	1826.	1826.
116	1	2	31	1826.	1826.
117	1	2	32	1825.	1825.
118	1	2	33	1825.	1825.
119	1	2	34	1824.	1824.
120	1	3	34	1824.	1824.
121	1	3	35	1823.	1823.
122	1	3	36	1823.	1823.
123	1	3	37	1822.	1822.
124	1	3	38	1822.	1822.
125	1	3	39	1821.	1821.
126	1	3	40	1821.	1821.
127	1	3	41	1820.	1820.

128	1	3	42	1819.	1819.
129	1	3	43	1819.	1819.
130	1	3	44	1818.	1818.
131	1	3	45	1818.	1818.
132	1	3	46	1817.	1817.
133	1	3	47	1817.	1817.
134	1	3	48	1816.	1816.
135	1	3	49	1816.	1816.
136	1	3	50	1815.	1815.
137	1	3	51	1814.	1814.
138	1	3	52	1814.	1814.
139	1	3	53	1813.	1813.
140	1	3	54	122.0	122.0
141	1	2	14	1294.	1294.
142	1	2	15	615.3	615.3
143	1	3	15	1835.	1835.
144	1	4	15	1836.	1836.
145	1	4	16	1836.	1836.
146	1	5	16	1836.	1836.
147	1	6	16	1836.	1836.
148	1	6	17	1837.	1837.
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151	1	8	18	1837.	1837.
152	1	9	18	1838.	1838.
153	1	9	19	1838.	1838.
154	1	10	19	1838.	1838.
155	1	11	19	1838.	1838.
156	1	11	20	1838.	1838.
157	1	12	20	1839.	1839.
158	1	13	20	1839.	1839.
159	1	13	21	1839.	1839.
160	1	14	21	1839.	1839.
161	1	15	21	1840.	1840.
162	1	15	22	1840.	1840.
163	1	16	22	1840.	1840.
164	1	17	22	1840.	1840.
165	1	17	23	1840.	1840.
166	1	18	23	1841.	1841.
167	1	18	24	1841.	1841.
168	1	19	24	1841.	1841.
169	1	20	24	1841.	1841.
170	1	20	25	1842.	1842.
171	1	21	25	1842.	1842.
172	1	22	25	1842.	1842.
173	1	22	26	1842.	1842.
174	1	23	26	1842.	1842.
175	1	24	26	1843.	1843.
176	1	24	27	1771.	1771.
177	1	87	36	93.94	93.94
178	1	88	36	1847.	1847.
179	1	88	37	1847.	1847.
180	1	89	37	1846.	1846.
181	1	89	38	1846.	1846.
182	1	90	38	1846.	1846.
183	1	90	39	1845.	1845.
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186	1	92	40	1844.	1844.
187	1	92	41	1844.	1844.
188	1	93	41	1843.	1843.
189	1	93	42	1843.	1843.
190	1	94	42	1843.	1843.

191	1	94	43	1842.	1842.
192	1	95	43	1842.	1842.
193	1	95	44	1842.	1842.
194	1	96	44	1841.	1841.
195	1	96	45	1841.	1841.
196	1	97	45	1841.	1841.
197	1	97	46	696.2	696.2
198	1	18	74	1782.	1782.
199	1	19	74	1809.	1809.
200	1	19	75	1809.	1809.
201	1	20	75	1808.	1808.
202	1	21	75	1807.	1807.
203	1	21	76	1807.	1807.
204	1	22	76	1806.	1806.
205	1	22	77	1806.	1806.
206	1	23	77	1805.	1805.
207	1	24	77	1804.	1804.
208	1	24	78	1804.	1804.
209	1	25	78	1803.	1803.
210	1	25	79	1803.	1803.
211	1	26	79	1802.	1802.
212	1	27	79	1802.	1802.
213	1	27	80	1801.	1801.
214	1	28	80	1800.	1800.
215	1	29	80	1800.	1800.
216	1	29	81	1799.	1799.
217	1	30	81	1799.	1799.
218	1	30	82	1798.	1798.
219	1	31	82	1798.	1798.
220	1	32	82	1797.	1797.
221	1	32	83	1797.	1797.
222	1	33	83	1796.	1796.
223	1	33	84	1795.	1795.
224	1	34	84	1795.	1795.
225	1	35	84	1794.	1794.
226	1	35	85	1794.	1794.
227	1	36	85	1793.	1793.
228	1	36	86	1793.	1793.
229	1	37	86	1792.	1792.
230	1	38	86	1791.	1791.
231	1	38	87	1791.	1791.
232	1	39	87	1790.	1790.
233	1	39	88	1790.	1790.
234	1	40	88	1789.	1789.
235	1	41	88	1788.	1788.
236	1	41	89	1788.	1788.
237	1	42	89	1787.	1787.
238	1	42	90	1787.	1787.
239	1	43	90	1786.	1786.
240	1	44	90	1786.	1786.
241	1	44	91	1785.	1785.
242	1	45	91	1784.	1784.
243	1	45	92	1784.	1784.
244	1	46	92	1783.	1783.
245	1	47	92	672.9	672.9
246	1	47	93	1092.	1092.
247	1	66	28	995.9	995.9
248	1	66	29	1840.	1840.
249	1	66	30	1840.	1840.
250	1	66	31	1841.	1841.
251	1	66	32	1841.	1841.
252	1	66	33	1841.	1841.
253	1	66	34	1841.	1841.

254	1	66	35	1842.	1842.
255	1	66	36	1842.	1842.
256	1	66	37	1842.	1842.
257	1	67	37	1842.	1842.
258	1	68	37	1843.	1843.
259	1	69	37	1843.	1843.
260	1	70	37	1843.	1843.
261	1	71	37	1843.	1843.
262	1	72	37	1844.	1844.
263	1	72	36	1844.	1844.
264	1	73	36	1844.	1844.
265	1	74	36	1844.	1844.
266	1	75	36	1845.	1845.
267	1	76	36	1845.	1845.
268	1	77	36	1845.	1845.
269	1	78	36	1845.	1845.
270	1	79	36	1846.	1846.
271	1	80	36	1846.	1846.
272	1	81	36	1846.	1846.
273	1	82	36	1847.	1847.
274	1	83	36	1735.	1735.
275	1	24	27	72.26	72.26
276	1	25	27	1843.	1843.
277	1	26	27	1843.	1843.
278	1	26	28	1843.	1843.
279	1	27	28	1843.	1843.
280	1	27	29	1843.	1843.
281	1	28	29	1843.	1843.
282	1	29	29	1843.	1843.
283	1	29	30	1843.	1843.
284	1	30	30	1843.	1843.
285	1	31	30	1842.	1842.
286	1	32	30	1842.	1842.
287	1	33	30	1842.	1842.
288	1	34	30	1842.	1842.
289	1	35	30	1842.	1842.
290	1	36	30	1842.	1842.
291	1	37	30	1842.	1842.
292	1	38	30	1842.	1842.
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294	1	40	30	1842.	1842.
295	1	41	30	1842.	1842.
296	1	42	30	1842.	1842.
297	1	43	30	1842.	1842.
298	1	44	30	1842.	1842.
299	1	45	30	1842.	1842.
300	1	45	29	1841.	1841.
301	1	46	29	1841.	1841.
302	1	47	29	1841.	1841.
303	1	48	29	1841.	1841.
304	1	49	29	1841.	1841.
305	1	50	29	1841.	1841.
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312	1	57	29	1841.	1841.
313	1	58	29	1841.	1841.
314	1	59	29	1840.	1840.
315	1	60	29	1840.	1840.
316	1	61	29	1840.	1840.

317	1	61	28	1840.	1840.
318	1	62	28	1840.	1840.
319	1	63	28	1840.	1840.
320	1	64	28	1840.	1840.
321	1	65	28	1840.	1840.
322	1	66	28	844.1	844.1
323	1	3	54	1691.	1691.
324	1	3	55	1813.	1813.
325	1	3	56	1813.	1813.
326	1	3	57	1813.	1813.
327	1	4	57	1813.	1813.
328	1	5	57	1813.	1813.
329	1	6	57	1812.	1812.
330	1	7	57	1812.	1812.
331	1	8	57	1812.	1812.
332	1	9	57	1812.	1812.
333	1	10	57	1812.	1812.
334	1	11	57	1812.	1812.
335	1	12	57	1812.	1812.
336	1	13	57	1812.	1812.
337	1	13	56	1812.	1812.
338	1	14	56	1812.	1812.
339	1	15	56	1812.	1812.
340	1	16	56	1811.	1811.
341	1	17	56	1811.	1811.
342	1	17	57	1811.	1811.
343	1	17	58	1811.	1811.
344	1	17	59	1811.	1811.
345	1	17	60	1811.	1811.
346	1	17	61	1811.	1811.
347	1	17	62	1811.	1811.
348	1	17	63	1811.	1811.
349	1	17	64	1811.	1811.
350	1	17	65	1811.	1811.
351	1	17	66	1811.	1811.
352	1	17	67	1811.	1811.
353	1	18	67	1810.	1810.
354	1	18	68	1810.	1810.
355	1	18	69	1810.	1810.
356	1	18	70	1810.	1810.
357	1	18	71	1810.	1810.
358	1	18	72	1810.	1810.
359	1	18	73	1810.	1810.
360	1	18	74	27.60	27.60
361	1	83	36	112.0	112.0
362	1	84	36	1847.	1847.
363	1	85	36	1847.	1847.
364	1	86	36	1847.	1847.
365	1	87	36	1754.	1754.
366	1	87	46	1695.	1695.
367	1	88	46	1846.	1846.
368	1	89	46	1845.	1845.
369	1	90	46	1844.	1844.
370	1	91	46	1844.	1844.
371	1	92	46	1843.	1843.
372	1	93	46	1843.	1843.
373	1	94	46	1842.	1842.
374	1	95	46	1841.	1841.
375	1	96	46	1841.	1841.
376	1	97	46	1144.	1144.
377	1	47	93	701.2	701.2
378	1	47	92	1127.	1127.
379	1	48	92	1810.	1810.

380	1	48	91	1810.	1810.
381	1	48	90	1810.	1810.
382	1	49	90	1810.	1810.
383	1	49	89	1810.	1810.
384	1	50	89	1810.	1810.
385	1	50	88	1810.	1810.
386	1	51	88	1810.	1810.
387	1	51	87	1810.	1810.
388	1	51	86	1810.	1810.
389	1	52	86	1810.	1810.
390	1	52	85	1810.	1810.
391	1	53	85	1810.	1810.
392	1	53	84	1810.	1810.
393	1	53	83	1810.	1810.
394	1	54	83	1810.	1810.
395	1	54	82	1810.	1810.
396	1	55	82	1810.	1810.
397	1	55	81	1810.	1810.
398	1	56	81	1810.	1810.
399	1	57	81	1810.	1810.
400	1	58	81	1810.	1810.
401	1	59	81	1810.	1810.
402	1	60	81	1810.	1810.
403	1	61	81	1810.	1810.
404	1	62	81	1810.	1810.
405	1	63	81	1810.	1810.
406	1	64	81	1810.	1810.
407	1	65	81	1810.	1810.
408	1	66	81	1810.	1810.
409	1	67	81	1810.	1810.
410	1	68	81	1810.	1810.
411	1	69	81	1810.	1810.
412	1	70	81	1810.	1810.
413	1	70	80	1810.	1810.
414	1	71	80	1810.	1810.
415	1	72	80	1810.	1810.
416	1	73	80	1810.	1810.
417	1	73	79	1810.	1810.
418	1	73	78	1810.	1810.
419	1	74	78	1810.	1810.
420	1	74	77	1810.	1810.
421	1	74	76	1810.	1810.
422	1	74	75	1810.	1810.
423	1	75	75	1810.	1810.
424	1	75	74	1810.	1810.
425	1	75	73	1810.	1810.
426	1	76	73	1810.	1810.
427	1	76	72	1810.	1810.
428	1	76	71	1810.	1810.
429	1	77	71	1810.	1810.
430	1	77	70	1810.	1810.
431	1	77	69	1810.	1810.
432	1	77	68	1810.	1810.
433	1	77	67	1810.	1810.
434	1	76	67	1810.	1810.
435	1	76	66	1810.	1810.
436	1	75	66	1810.	1810.
437	1	75	65	1810.	1810.
438	1	74	65	1810.	1810.
439	1	73	65	1810.	1810.
440	1	73	64	1810.	1810.
441	1	72	64	1810.	1810.
442	1	72	63	1810.	1810.

443	1	72	62	1810.	1810.
444	1	73	62	1810.	1810.
445	1	73	61	1810.	1810.
446	1	74	61	1810.	1810.
447	1	75	61	1810.	1810.
448	1	76	61	1810.	1810.
449	1	76	60	1810.	1810.
450	1	77	60	1810.	1810.
451	1	78	60	1810.	1810.
452	1	78	59	1810.	1810.
453	1	79	59	1810.	1810.
454	1	80	59	1810.	1810.
455	1	81	59	1810.	1810.
456	1	81	58	1810.	1810.
457	1	82	58	1810.	1810.
458	1	83	58	1810.	1810.
459	1	83	57	1810.	1810.
460	1	84	57	1810.	1810.
461	1	84	56	1810.	1810.
462	1	84	55	1810.	1810.
463	1	85	55	1810.	1810.
464	1	85	54	1810.	1810.
465	1	85	53	1810.	1810.
466	1	85	52	1810.	1810.
467	1	85	51	1810.	1810.
468	1	86	51	1810.	1810.
469	1	86	50	1810.	1810.
470	1	86	49	1810.	1810.
471	1	86	48	1810.	1810.
472	1	86	47	1810.	1810.
473	1	87	47	1810.	1810.
474	1	87	46	148.7	148.7
475	1	2	14	533.9	533.9
476	1	2	15	1203.	1203.
477	1	2	16	1810.	1810.
478	1	2	17	1810.	1810.
479	1	2	18	1810.	1810.
480	1	2	19	1810.	1810.
481	1	2	20	1810.	1810.
482	1	2	21	1810.	1810.
483	1	2	22	1810.	1810.
484	1	2	23	1810.	1810.
485	1	2	24	1810.	1810.
486	1	2	25	1810.	1810.
487	1	2	26	1810.	1810.
488	1	2	27	1810.	1810.
489	1	2	28	1810.	1810.
490	1	2	29	1810.	1810.
491	1	2	30	1810.	1810.
492	1	2	31	1810.	1810.
493	1	2	32	1810.	1810.
494	1	2	33	1810.	1810.
495	1	2	34	1810.	1810.
496	1	3	34	1810.	1810.
497	1	3	35	1810.	1810.
498	1	3	36	1810.	1810.
499	1	3	37	1810.	1810.
500	1	3	38	1810.	1810.
501	1	3	39	1810.	1810.
502	1	3	40	1810.	1810.
503	1	3	41	1810.	1810.
504	1	3	42	1810.	1810.
505	1	3	43	1810.	1810.

506	1	3	44	1810.	1810.
507	1	3	45	1810.	1810.
508	1	3	46	1810.	1810.
509	1	3	47	1810.	1810.
510	1	3	48	1810.	1810.
511	1	3	49	1810.	1810.
512	1	3	50	1810.	1810.
513	1	3	51	1810.	1810.
514	1	3	52	1810.	1810.
515	1	3	53	1810.	1810.
516	1	3	54	121.8	121.8
517	1	2	14	1276.	1276.
518	1	2	15	606.8	606.8
519	1	3	15	1810.	1810.
520	1	4	15	1810.	1810.
521	1	4	16	1810.	1810.
522	1	5	16	1810.	1810.
523	1	6	16	1810.	1810.
524	1	6	17	1810.	1810.
525	1	7	17	1810.	1810.
526	1	8	17	1810.	1810.
527	1	8	18	1810.	1810.
528	1	9	18	1810.	1810.
529	1	9	19	1810.	1810.
530	1	10	19	1810.	1810.
531	1	11	19	1810.	1810.
532	1	11	20	1810.	1810.
533	1	12	20	1810.	1810.
534	1	13	20	1810.	1810.
535	1	13	21	1810.	1810.
536	1	14	21	1810.	1810.
537	1	15	21	1810.	1810.
538	1	15	22	1810.	1810.
539	1	16	22	1810.	1810.
540	1	17	22	1810.	1810.
541	1	17	23	1810.	1810.
542	1	18	23	1810.	1810.
543	1	18	24	1810.	1810.
544	1	19	24	1810.	1810.
545	1	20	24	1810.	1810.
546	1	20	25	1810.	1810.
547	1	21	25	1810.	1810.
548	1	22	25	1810.	1810.
549	1	22	26	1810.	1810.
550	1	23	26	1810.	1810.
551	1	24	26	1810.	1810.
552	1	24	27	1739.	1739.
553	1	87	36	92.03	92.03
554	1	88	36	1810.	1810.
555	1	88	37	1810.	1810.
556	1	89	37	1810.	1810.
557	1	89	38	1810.	1810.
558	1	90	38	1810.	1810.
559	1	90	39	1810.	1810.
560	1	91	39	1810.	1810.
561	1	91	40	1810.	1810.
562	1	92	40	1810.	1810.
563	1	92	41	1810.	1810.
564	1	93	41	1810.	1810.
565	1	93	42	1810.	1810.
566	1	94	42	1810.	1810.
567	1	94	43	1810.	1810.
568	1	95	43	1810.	1810.

569	1	95	44	1810.	1810.
570	1	96	44	1810.	1810.
571	1	96	45	1810.	1810.
572	1	97	45	1810.	1810.
573	1	97	46	684.8	684.8
574	1	18	74	1782.	1782.
575	1	19	74	1810.	1810.
576	1	19	75	1810.	1810.
577	1	20	75	1810.	1810.
578	1	21	75	1810.	1810.
579	1	21	76	1810.	1810.
580	1	22	76	1810.	1810.
581	1	22	77	1810.	1810.
582	1	23	77	1810.	1810.
583	1	24	77	1810.	1810.
584	1	24	78	1810.	1810.
585	1	25	78	1810.	1810.
586	1	25	79	1810.	1810.
587	1	26	79	1810.	1810.
588	1	27	79	1810.	1810.
589	1	27	80	1810.	1810.
590	1	28	80	1810.	1810.
591	1	29	80	1810.	1810.
592	1	29	81	1810.	1810.
593	1	30	81	1810.	1810.
594	1	30	82	1810.	1810.
595	1	31	82	1810.	1810.
596	1	32	82	1810.	1810.
597	1	32	83	1810.	1810.
598	1	33	83	1810.	1810.
599	1	33	84	1810.	1810.
600	1	34	84	1810.	1810.
601	1	35	84	1810.	1810.
602	1	35	85	1810.	1810.
603	1	36	85	1810.	1810.
604	1	36	86	1810.	1810.
605	1	37	86	1810.	1810.
606	1	38	86	1810.	1810.
607	1	38	87	1810.	1810.
608	1	39	87	1810.	1810.
609	1	39	88	1810.	1810.
610	1	40	88	1810.	1810.
611	1	41	88	1810.	1810.
612	1	41	89	1810.	1810.
613	1	42	89	1810.	1810.
614	1	42	90	1810.	1810.
615	1	43	90	1810.	1810.
616	1	44	90	1810.	1810.
617	1	44	91	1810.	1810.
618	1	45	91	1810.	1810.
619	1	45	92	1810.	1810.
620	1	46	92	1810.	1810.
621	1	47	92	683.2	683.2
622	1	47	93	1109.	1109.
623	1	66	28	979.7	979.7
624	1	66	29	1810.	1810.
625	1	66	30	1810.	1810.
626	1	66	31	1810.	1810.
627	1	66	32	1810.	1810.
628	1	66	33	1810.	1810.
629	1	66	34	1810.	1810.
630	1	66	35	1810.	1810.
631	1	66	36	1810.	1810.

632	1	66	37	1810.	1810.
633	1	67	37	1810.	1810.
634	1	68	37	1810.	1810.
635	1	69	37	1810.	1810.
636	1	70	37	1810.	1810.
637	1	71	37	1810.	1810.
638	1	72	37	1810.	1810.
639	1	72	36	1810.	1810.
640	1	73	36	1810.	1810.
641	1	74	36	1810.	1810.
642	1	75	36	1810.	1810.
643	1	76	36	1810.	1810.
644	1	77	36	1810.	1810.
645	1	78	36	1810.	1810.
646	1	79	36	1810.	1810.
647	1	80	36	1810.	1810.
648	1	81	36	1810.	1810.
649	1	82	36	1810.	1810.
650	1	83	36	1700.	1700.
651	1	24	27	70.96	70.96
652	1	25	27	1810.	1810.
653	1	26	27	1810.	1810.
654	1	26	28	1810.	1810.
655	1	27	28	1810.	1810.
656	1	27	29	1810.	1810.
657	1	28	29	1810.	1810.
658	1	29	29	1810.	1810.
659	1	29	30	1810.	1810.
660	1	30	30	1810.	1810.
661	1	31	30	1810.	1810.
662	1	32	30	1810.	1810.
663	1	33	30	1810.	1810.
664	1	34	30	1810.	1810.
665	1	35	30	1810.	1810.
666	1	36	30	1810.	1810.
667	1	37	30	1810.	1810.
668	1	38	30	1810.	1810.
669	1	39	30	1810.	1810.
670	1	40	30	1810.	1810.
671	1	41	30	1810.	1810.
672	1	42	30	1810.	1810.
673	1	43	30	1810.	1810.
674	1	44	30	1810.	1810.
675	1	45	30	1810.	1810.
676	1	45	29	1810.	1810.
677	1	46	29	1810.	1810.
678	1	47	29	1810.	1810.
679	1	48	29	1810.	1810.
680	1	49	29	1810.	1810.
681	1	50	29	1810.	1810.
682	1	51	29	1810.	1810.
683	1	52	29	1810.	1810.
684	1	53	29	1810.	1810.
685	1	54	29	1810.	1810.
686	1	55	29	1810.	1810.
687	1	56	29	1810.	1810.
688	1	57	29	1810.	1810.
689	1	58	29	1810.	1810.
690	1	59	29	1810.	1810.
691	1	60	29	1810.	1810.
692	1	61	29	1810.	1810.
693	1	61	28	1810.	1810.
694	1	62	28	1810.	1810.

695	1	63	28	1810.	1810.
696	1	64	28	1810.	1810.
697	1	65	28	1810.	1810.
698	1	66	28	830.3	830.3
699	1	3	54	1688.	1688.
700	1	3	55	1810.	1810.
701	1	3	56	1810.	1810.
702	1	3	57	1810.	1810.
703	1	4	57	1810.	1810.
704	1	5	57	1810.	1810.
705	1	6	57	1810.	1810.
706	1	7	57	1810.	1810.
707	1	8	57	1810.	1810.
708	1	9	57	1810.	1810.
709	1	10	57	1810.	1810.
710	1	11	57	1810.	1810.
711	1	12	57	1810.	1810.
712	1	13	57	1810.	1810.
713	1	13	56	1810.	1810.
714	1	14	56	1810.	1810.
715	1	15	56	1810.	1810.
716	1	16	56	1810.	1810.
717	1	17	56	1810.	1810.
718	1	17	57	1810.	1810.
719	1	17	58	1810.	1810.
720	1	17	59	1810.	1810.
721	1	17	60	1810.	1810.
722	1	17	61	1810.	1810.
723	1	17	62	1810.	1810.
724	1	17	63	1810.	1810.
725	1	17	64	1810.	1810.
726	1	17	65	1810.	1810.
727	1	17	66	1810.	1810.
728	1	17	67	1810.	1810.
729	1	18	67	1810.	1810.
730	1	18	68	1810.	1810.
731	1	18	69	1810.	1810.
732	1	18	70	1810.	1810.
733	1	18	71	1810.	1810.
734	1	18	72	1810.	1810.
735	1	18	73	1810.	1810.
736	1	18	74	27.60	27.60
737	1	83	36	109.7	109.7
738	1	84	36	1810.	1810.
739	1	85	36	1810.	1810.
740	1	86	36	1810.	1810.
741	1	87	36	1718.	1718.
742	1	87	46	1661.	1661.
743	1	88	46	1810.	1810.
744	1	89	46	1810.	1810.
745	1	90	46	1810.	1810.
746	1	91	46	1810.	1810.
747	1	92	46	1810.	1810.
748	1	93	46	1810.	1810.
749	1	94	46	1810.	1810.
750	1	95	46	1810.	1810.
751	1	96	46	1810.	1810.
752	1	97	46	1125.	1125.

752 TIME-VARIANT SPECIFIED-HEAD CELLS

SOLVING FOR HEAD

```
 OUTPUT CONTROL FOR STRESS PERIOD    1   TIME STEP   1
    PRINT BUDGET
    SAVE HEAD FOR ALL LAYERS
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV1 SAVING "FLOW LOWER FACE " ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV4 SAVING "           WELLS" ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV4 SAVING "          DRAINS" ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV3 SAVING "              ET" ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV4 SAVING " HEAD DEP BOUNDS" ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV3 SAVING "        RECHARGE" ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1


 ***Link-MT3DMS Package***
 OPENING LINK-MT3DMS OUTPUT FILE: DRAIN_HIGHK.hff


 ON UNIT NUMBER:   333
 FILE TYPE: UNFORMATTED
 HEADER OPTION: STANDARD
 ***Link-MT3DMS Package***


 SAVING SATURATED THICKNESS AND FLOW TERMS ON UNIT  333 FOR MT3DMS
 BY THE LINK-MT3DMS PACKAGE V6.3 AT TIME STEP    1, STRESS PERIOD    1


 HEAD WILL BE SAVED ON UNIT   30 AT END OF TIME STEP   1, STRESS PERIOD    1
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP  1 IN STRESS PERIOD   1
  ------------------------------------------------------------------------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP      L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =           0.0000
       CONSTANT HEAD =        1588.9995        CONSTANT HEAD =        1588.9995
               WELLS =           0.0000                WELLS =           0.0000
              DRAINS =           0.0000               DRAINS =           0.0000
                  ET =           0.0000                   ET =           0.0000
     HEAD DEP BOUNDS =     5099664.0000      HEAD DEP BOUNDS =     5099664.0000
            RECHARGE =      964420.4375             RECHARGE =      964420.4375

            TOTAL IN =     6065673.5000             TOTAL IN =     6065673.5000

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =           0.0000
       CONSTANT HEAD =      966000.4375        CONSTANT HEAD =      966000.4375
               WELLS =        3100.0000                WELLS =        3100.0000
              DRAINS =     5096543.5000               DRAINS =     5096543.5000
                  ET =           1.0073                   ET =           1.0073
     HEAD DEP BOUNDS =          26.7080      HEAD DEP BOUNDS =          26.7080
            RECHARGE =           0.0000             RECHARGE =           0.0000

           TOTAL OUT =     6065671.5000            TOTAL OUT =     6065671.5000

            IN - OUT =           2.0000             IN - OUT =           2.0000
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```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =           0.00



          TIME SUMMARY AT END OF TIME STEP   1 IN STRESS PERIOD    1
                    SECONDS     MINUTES      HOURS       DAYS        YEARS
                    ---------------------------------------------------------
   TIME STEP LENGTH  86400.      1440.0      24.000      1.0000     2.73785E-03
 STRESS PERIOD TIME  86400.      1440.0      24.000      1.0000     2.73785E-03
         TOTAL TIME  86400.      1440.0      24.000      1.0000     2.73785E-03
1

 DATA AT HEAD LOCATIONS

        OBSERVATION     OBSER-     SIMUL.                            WEIGHTED
  OBS#    NAME          VATION     EQUIV.    RESIDUAL  WEIGHT**.5  RESIDUAL
                          *          *
     1 hed1           0.369E+04  0.299E+04   704.      0.653       460.
     2 hed2           0.370E+04  0.334E+04   354.      0.653       231.
     3 hed3           0.370E+04  0.254E+04  0.116E+04  0.653       758.
     4 hed4           0.370E+04  0.106E+04  0.264E+04  0.653      0.173E+04
     5 hed5           0.371E+04  0.306E+04   643.      0.653       420.
     6 hed6           0.370E+04   587.      0.312E+04  0.653      0.204E+04
     7 hed7           0.360E+04  0.232E+04  0.128E+04  0.653       839.

 * THE OBSERVATION (AND CORRESPONDING SIMULATED EQUIVALENT) IS HEAD OR TEMPORAL
   CHANGE IN HEAD, AS SPECIFIED IN THE "HOB" INPUT FILE.  NEGATIVE TEMPORAL
   CHANGES INDICATE DRAWDOWN.

 STATISTICS FOR HEAD RESIDUALS :
 MAXIMUM WEIGHTED RESIDUAL  : 0.204E+04 OBS#      6
 MINIMUM WEIGHTED RESIDUAL  :  231.     OBS#      2
 AVERAGE WEIGHTED RESIDUAL  :  924.
 # RESIDUALS >= 0. :      7
 # RESIDUALS < 0.  :      0
 NUMBER OF RUNS  :    1  IN    7 OBSERVATIONS

 SUM OF SQUARED WEIGHTED RESIDUALS (HEADS ONLY)  0.88418E+07

 DATA FOR FLOWS REPRESENTED USING THE DRAIN PACKAGE

       OBSERVATION      MEAS.      CALC.                            WEIGHTED
  OBS#    NAME          FLOW       FLOW     RESIDUAL  WEIGHT**.5  RESIDUAL

     8 no_drnf0        1.00     -0.510E+07  0.510E+07  0.100E-18  0.510E-12

 STATISTICS FOR DRAIN FLOW RESIDUALS :
 MAXIMUM WEIGHTED RESIDUAL  : 0.510E-12 OBS#      8
 MINIMUM WEIGHTED RESIDUAL  : 0.510E-12 OBS#      8
 AVERAGE WEIGHTED RESIDUAL  : 0.510E-12
 # RESIDUALS >= 0. :      1
 # RESIDUALS < 0.  :      0
 NUMBER OF RUNS:      1  IN      1 OBSERVATIONS

 SUM OF SQUARED WEIGHTED RESIDUALS (DRAIN FLOWS ONLY)  0.25975E-24

 DATA FOR FLOWS REPRESENTED USING THE GENERAL-HEAD BOUNDARY PACKAGE

        OBSERVATION      MEAS.      CALC.                            WEIGHTED
```

OBS#	NAME	FLOW	FLOW	RESIDUAL	WEIGHT**.5	RESIDUAL
9	no_ghbf0	1.00	0.406E+04	-0.405E+04	0.100E-18	-0.405E-15
10	no_ghbf1	1.00	0.129E+05	-0.129E+05	0.100E-18	-0.129E-14
11	no_ghbf2	1.00	0.507E+07	-0.507E+07	0.100E-18	-0.507E-12
12	no_ghbf3	1.00	0.100E+05	-0.100E+05	0.100E-18	-0.100E-14

```
STATISTICS FOR GENERAL-HEAD BOUNDARY FLOW RESIDUALS :
MAXIMUM WEIGHTED RESIDUAL  :-0.405E-15 OBS#      9
MINIMUM WEIGHTED RESIDUAL  :-0.507E-12 OBS#     11
AVERAGE WEIGHTED RESIDUAL  :-0.127E-12
# RESIDUALS >= 0. :      0
# RESIDUALS < 0.  :      4
NUMBER OF RUNS:      1  IN      4 OBSERVATIONS

SUM OF SQUARED WEIGHTED RESIDUALS
  (GENERAL-HEAD BOUNDARY FLOWS ONLY)  0.25732E-24

DATA FOR FLOW OBSERVATIONS AT BOUNDARIES REPRESENTED AS CONSTANT-HEAD
```

OBS#	OBSERVATION NAME	MEAS. FLOW	CALC. FLOW	RESIDUAL	WEIGHT**.5	WEIGHTED RESIDUAL
13	no_chdf0	1.00	-0.133E+06	0.133E+06	0.100E-18	0.133E-13
14	no_chdf1	1.00	-0.171E+04	0.171E+04	0.100E-18	0.171E-15
15	no_chdf2	1.00	-0.268E+04	0.268E+04	0.100E-18	0.268E-15
16	no_chdf3	1.00	-0.458E+05	0.458E+05	0.100E-18	0.458E-14
17	no_chdf4	1.00	-0.133E+05	0.133E+05	0.100E-18	0.133E-14
18	no_chdf5	1.00	-0.323E+04	0.323E+04	0.100E-18	0.323E-15
19	no_chdf6	1.00	-0.111E+06	0.111E+06	0.100E-18	0.111E-13
20	no_chdf7	1.00	-0.355E+05	0.355E+05	0.100E-18	0.355E-14
21	no_chdf8	1.00	-0.692E+05	0.692E+05	0.100E-18	0.692E-14
22	no_chdf9	1.00	-0.667E+05	0.667E+05	0.100E-18	0.667E-14
23	no_chdf10	1.00	-0.134E+06	0.134E+06	0.100E-18	0.134E-13
24	no_chdf11	1.00	-0.168E+04	0.168E+04	0.100E-18	0.168E-15
25	no_chdf12	1.00	-0.262E+04	0.263E+04	0.100E-18	0.263E-15
26	no_chdf13	1.00	-0.454E+05	0.454E+05	0.100E-18	0.454E-14
27	no_chdf14	1.00	-0.131E+05	0.131E+05	0.100E-18	0.131E-14
28	no_chdf15	1.00	-0.317E+04	0.317E+04	0.100E-18	0.317E-15
29	no_chdf16	1.00	-0.112E+06	0.112E+06	0.100E-18	0.112E-13
30	no_chdf17	1.00	-0.349E+05	0.349E+05	0.100E-18	0.349E-14
31	no_chdf18	1.00	-0.680E+05	0.680E+05	0.100E-18	0.680E-14
32	no_chdf19	1.00	-0.667E+05	0.667E+05	0.100E-18	0.667E-14

```
STATISTICS FOR CONSTANT-HEAD BOUNDARY FLOW RESIDUALS :
MAXIMUM WEIGHTED RESIDUAL  : 0.134E-13 OBS#     23
MINIMUM WEIGHTED RESIDUAL  : 0.168E-15 OBS#     24
AVERAGE WEIGHTED RESIDUAL  : 0.482E-14
# RESIDUALS >= 0. :     20
# RESIDUALS < 0.  :      0
NUMBER OF RUNS  :    1  IN   20 OBSERVATIONS

SUM OF SQUARED WEIGHTED RESIDUALS
  (CONSTANT-HEAD BOUNDARY FLOWS ONLY)  0.86012E-27

SUM OF SQUARED WEIGHTED RESIDUALS (ALL DEPENDENT VARIABLES)  0.88418E+07

STATISTICS FOR ALL RESIDUALS :
AVERAGE WEIGHTED RESIDUAL  : 0.202E+03
# RESIDUALS >= 0. :     28
# RESIDUALS < 0.  :      4
NUMBER OF RUNS  :    3  IN   32 OBSERVATIONS
```

```
INTERPRETING THE CALCULATED RUNS STATISTIC VALUE OF     -3.87
NOTE: THE FOLLOWING APPLIES ONLY IF
       # RESIDUALS >= 0 . IS GREATER THAN 10 AND
       # RESIDUALS < 0.   IS GREATER THAN 10
THE NEGATIVE VALUE MAY INDICATE TOO FEW RUNS:
   IF THE VALUE IS LESS THAN -1.28, THERE IS LESS THAN A 10 PERCENT
      CHANCE THE VALUES ARE RANDOM,
   IF THE VALUE IS LESS THAN -1.645, THERE IS LESS THAN A 5 PERCENT
      CHANCE THE VALUES ARE RANDOM,
   IF THE VALUE IS LESS THAN -1.96, THERE IS LESS THAN A 2.5 PERCENT
      CHANCE THE VALUES ARE RANDOM.


ORDERED DEPENDENT-VARIABLE WEIGHTED RESIDUALS
NUMBER OF RESIDUALS INCLUDED:        32
   -0.507E-12 -0.129E-14 -0.100E-14 -0.405E-15  0.168E-15  0.171E-15  0.263E-15
    0.268E-15  0.317E-15  0.323E-15  0.131E-14  0.133E-14  0.349E-14  0.355E-14
    0.454E-14  0.458E-14  0.667E-14  0.667E-14  0.680E-14  0.692E-14  0.111E-13
    0.112E-13  0.133E-13  0.134E-13  0.510E-12   231.       420.       460.
     758.       839.      0.173E+04  0.204E+04

CORRELATION BETWEEN ORDERED WEIGHTED RESIDUALS AND NORMAL ORDER STATISTICS
FOR OBSERVATIONS =    0.474

---------------------------------------------------------------------------
COMMENTS ON THE INTERPRETATION OF THE CORRELATION BETWEEN
WEIGHTED RESIDUALS AND NORMAL ORDER STATISTICS:

Generally, IF the reported CORRELATION is LESS than the critical value,
at the selected significance level (usually 5 or 10%), the hypothesis
that the weighted residuals are INDEPENDENT AND NORMALLY DISTRIBUTED
would be REJECTED.  HOWEVER, in this case, conditions are outside of
the range of published critical values as discussed below.

The sum of the number of observations and prior information items is    32
which is less than 35, the minimum value for which critical values are
published.  Therefore, the critical values for the 5 and 10% significance
levels are less than 0.943 and 0.952, respectively.

CORRELATIONS GREATER than these critical values indicate that, probably, the
weighted residuals ARE INDEPENDENT AND NORMALLY DISTRIBUTED.

Correlations LESS than these critical values MAY BE ACCEPTABLE, and
rejection of the hypothesis is not necessarily warranted.

The Kolmogorov-Smirnov test can be used to further evaluate the residuals.
---------------------------------------------------------------------------
```

```
25 50 1
 0.1 0.1 1.0 0 0 2 1.0
```

```
500 2.0 0.01 0.0
0 0 0 0 0 0.0 0.001 1.5 1
2 1 0
0.8 0.0 1
0 0 0
```

```
#GMS_HDF5_01
3 40
1 1
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Recharge/07. Property" 3 0 1 0 10000 0 1
```

PEST RUN RECORD: CASE drain_highk

PEST run mode:-

Parameter estimation mode

Case dimensions:-

```
Number of parameters                          :    3
Number of adjustable parameters               :    3
Number of parameter groups                    :    1
Number of observations                        :   32
Number of prior estimates                     :    0
```

Model command line(s):-

```
start /w /min DRAIN_HIGHK_bat1.bat
```

Jacobian command line:-

na

Model interface files:-

```
Templates:
   DRAIN_HIGHK.tpl_1
for model input files:
   DRAIN_HIGHK.snn_1

(Parameter values written using single precision protocol.)
(Decimal point always included.)

Instruction files:
   DRAIN_HIGHK.ins
for reading model output files:
   DRAIN_HIGHK._os
```

PEST-to-model message file:-

na

Derivatives calculation:-

Param group	Increment type	Increment	Increment low bound	Forward or central switch	Multiplier (central)	Method (central)
general outside_pts	relative	1.0000E-02	none		2.000	

Parameter definitions:-

Name	Trans-formation	Change limit	Initial value	Lower bound	Upper bound
hk_800	log	factor	1.40000	1.000000E-03	20.0000
ghb_300	none	factor	0.100000	1.000000E-03	1000.00

```
                                   drain_highk.rec
ghb_400      none              factor     0.100000       1.000000E-03    1000.00

Name         Group          Scale         Offset        Model command number
hk_800       general       1.00000        0.00000            1
ghb_300      general       1.00000        0.00000            1
ghb_400      general       1.00000        0.00000            1


Prior information:-

   No prior information supplied


Observations:-

Observation name        Observation       Weight       Group
 hed1                    3689.73         0.6533       head
 hed2                    3698.05         0.6533       head
 hed3                    3696.72         0.6533       head
 hed4                    3700.85         0.6533       head
 hed5                    3706.41         0.6533       head
 hed6                    3702.56         0.6533       head
 hed7                    3604.85         0.6533       head
 no_drnf0                1.00000         1.0000E-19   drain
 no_ghbf0                1.00000         1.0000E-19   ghb
 no_ghbf1                1.00000         1.0000E-19   ghb
 no_ghbf2                1.00000         1.0000E-19   ghb
 no_ghbf3                1.00000         1.0000E-19   ghb
 no_chdf0                1.00000         1.0000E-19   const_head
 no_chdf1                1.00000         1.0000E-19   const_head
 no_chdf2                1.00000         1.0000E-19   const_head
 no_chdf3                1.00000         1.0000E-19   const_head
 no_chdf4                1.00000         1.0000E-19   const_head
 no_chdf5                1.00000         1.0000E-19   const_head
 no_chdf6                1.00000         1.0000E-19   const_head
 no_chdf7                1.00000         1.0000E-19   const_head
 no_chdf8                1.00000         1.0000E-19   const_head
 no_chdf9                1.00000         1.0000E-19   const_head
 no_chdf10               1.00000         1.0000E-19   const_head
 no_chdf11               1.00000         1.0000E-19   const_head
 no_chdf12               1.00000         1.0000E-19   const_head
 no_chdf13               1.00000         1.0000E-19   const_head
 no_chdf14               1.00000         1.0000E-19   const_head
 no_chdf15               1.00000         1.0000E-19   const_head
 no_chdf16               1.00000         1.0000E-19   const_head
 no_chdf17               1.00000         1.0000E-19   const_head
 no_chdf18               1.00000         1.0000E-19   const_head
 no_chdf19               1.00000         1.0000E-19   const_head


Control settings:-

   Initial lambda                                                  :  10.000
   Lambda adjustment factor                                        :  2.0000
   Sufficient new/old phi ratio per optimisation iteration         : 0.30000
   Limiting relative phi reduction between lambdas                 : 3.00000E-02
   Maximum trial lambdas per iteration                             :  10

   Maximum  factor  parameter change (factor-limited changes)      :  5.0000
   Maximum relative parameter change (relative-limited changes)    :   na
   Fraction of initial parameter values used in computing
   change limit for near-zero parameters                           : 1.00000E-03
   Allow bending of parameter upgrade vector                       : no
```

```
   Allow parameters to stick to their bounds                        : no

   Relative phi reduction below which to begin use of
   central derivatives                                              : 0.10000
   Iteration at which to first consider derivatives switch          :   1

   Relative phi reduction indicating convergence                    : 0.50000E-02
   Number of phi values required within this range                  :   3
   Maximum number of consecutive failures to lower phi              :   3
   Minimal relative parameter change indicating convergence         : 0.50000E-02
   Number of consecutive iterations with minimal param change       :   3
   Maximum number of optimisation iterations                        :  20

   Attempt automatic user intervention                              : no


                              OPTIMISATION RECORD


INITIAL CONDITIONS:
  Sum of squared weighted residuals (ie phi)                  =  1.13310E+07
  Contribution to phi from observation group "head"           =  1.13310E+07
  Contribution to phi from observation group "drain"          =  2.53824E-27
  Contribution to phi from observation group "ghb"            =  1.29563E-27
  Contribution to phi from observation group "const_head"     =  8.60117E-28

      Current parameter values
      hk_800           1.40000
      ghb_300         0.100000
      ghb_400         0.100000


OPTIMISATION ITERATION NO.        :    1
   Model calls so far             :    1
   Starting phi for this iteration                            :  1.13310E+07
   Contribution to phi from observation group "head"          :  1.13310E+07
   Contribution to phi from observation group "drain"         :  2.53824E-27
   Contribution to phi from observation group "ghb"           :  1.29563E-27
   Contribution to phi from observation group "const_head"    :  8.60117E-28

       Lambda =   10.000     ----->
          Phi =  9.55810E+06  (  0.844 of starting phi)

       Lambda =   5.0000     ----->
          Phi =  9.59918E+06  (  0.847 of starting phi)

       Lambda =   20.000     ----->
          Phi =  9.53875E+06  (  0.842 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:  9.53875E+06

      Current parameter values                 Previous parameter values
      hk_800          0.964602                 hk_800            1.40000
      ghb_300         0.302348                 ghb_300          0.100000
      ghb_400         0.500000                 ghb_400          0.100000
   Maximum   factor change:  5.000     ["ghb_400"]
   Maximum relative change:  4.000     ["ghb_400"]


OPTIMISATION ITERATION NO.        :    2
   Model calls so far             :    7
```

```
   Starting phi for this iteration                          :  9.53875E+06
   Contribution to phi from observation group "head"        :  9.53875E+06
   Contribution to phi from observation group "drain"       :  3.57324E-27
   Contribution to phi from observation group "ghb"         :  2.43660E-27
   Contribution to phi from observation group "const_head"  :  8.60117E-28

       Lambda =   20.000     ----->
          Phi =  8.89409E+06  (  0.932 of starting phi)

       Lambda =   10.000     ----->
          Phi =  8.89176E+06  (  0.932 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:  8.89176E+06
   Relative phi reduction between optimisation iterations less than 0.1000
   Switch to central derivatives calculation

      Current parameter values                 Previous parameter values
      hk_800          0.192920                 hk_800           0.964602
      ghb_300         0.530618                 ghb_300          0.302348
      ghb_400         0.859583                 ghb_400          0.500000
   Maximum   factor change:  5.000     ["hk_800"]
   Maximum relative change: 0.8000     ["hk_800"]


OPTIMISATION ITERATION NO.        :    3
   Model calls so far             :   12
   Starting phi for this iteration                          :  8.89176E+06
   Contribution to phi from observation group "head"        :  8.89176E+06
   Contribution to phi from observation group "drain"       :  5.60395E-28
   Contribution to phi from observation group "ghb"         :  4.24546E-28
   Contribution to phi from observation group "const_head"  :  8.60117E-28

       Lambda =   5.0000     ----->
          Phi =  8.86916E+06  (  0.997 of starting phi)

       Lambda =   2.5000     ----->
          Phi =  8.85909E+06  (  0.996 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:  8.85909E+06

      Current parameter values                 Previous parameter values
      hk_800          0.132106                 hk_800           0.192920
      ghb_300          2.65309                 ghb_300          0.530618
      ghb_400          3.59011                 ghb_400          0.859583
   Maximum   factor change:  5.000     ["ghb_300"]
   Maximum relative change:  4.000     ["ghb_300"]


OPTIMISATION ITERATION NO.        :    4
   Model calls so far             :   20
   Starting phi for this iteration                          :  8.85909E+06
   Contribution to phi from observation group "head"        :  8.85909E+06
   Contribution to phi from observation group "drain"       :  2.64713E-27
   Contribution to phi from observation group "ghb"         :  2.41381E-27
   Contribution to phi from observation group "const_head"  :  8.60117E-28

       Lambda =   1.2500     ----->
          Phi =  8.84877E+06  (  0.999 of starting phi)

       Lambda =  0.62500     ----->
          Phi =  8.85076E+06  (  0.999 of starting phi)
```

```
     Lambda =   2.5000     ----->
        Phi =  8.84447E+06  (  0.998 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:  8.84447E+06

      Current parameter values                 Previous parameter values
      hk_800          0.134914                 hk_800           0.132106
      ghb_300          9.16105                 ghb_300           2.65309
      ghb_400          17.9505                 ghb_400           3.59011
   Maximum   factor change:  5.000     ["ghb_400"]
   Maximum relative change:  4.000     ["ghb_400"]


OPTIMISATION ITERATION NO.        :    5
   Model calls so far             :   29
   Starting phi for this iteration                          :  8.84447E+06
   Contribution to phi from observation group "head"        :  8.84447E+06
   Contribution to phi from observation group "drain"       :  4.09188E-26
   Contribution to phi from observation group "ghb"         :  3.99616E-26
   Contribution to phi from observation group "const_head"  :  8.60117E-28

     Lambda =   2.5000     ----->
        Phi =  8.84264E+06  (  1.000 of starting phi)

     Lambda =   1.2500     ----->
        Phi =  8.84304E+06  (  1.000 of starting phi)

     Lambda =   5.0000     ----->
        Phi =  8.84175E+06  (  1.000 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:  8.84175E+06

      Current parameter values                 Previous parameter values
      hk_800          0.134793                 hk_800           0.134914
      ghb_300          45.8053                 ghb_300           9.16105
      ghb_400          56.4930                 ghb_400           17.9505
   Maximum   factor change:  5.000     ["ghb_300"]
   Maximum relative change:  4.000     ["ghb_300"]

   Optimisation complete: the  3 lowest phi's are within a relative distance
                          of eachother of 5.000E-03
   Total model calls:   38

   The model has been run one final time using best parameters.
   Thus all model input files contain best parameter values, and model
   output files contain model results based on these parameters.


                         OPTIMISATION RESULTS


Parameters ----->

Parameter        Estimated         95% percent confidence limits
                 value             lower limit       upper limit
 hk_800         0.134793           3.028710E-10      5.998953E+07
 ghb_300         45.8053           -52082.9           52174.5
 ghb_400         56.4930           -82370.2           82483.2

Note: confidence limits provide only an indication of parameter uncertainty.
```

They rely on a linearity assumption which may not extend as far in parameter space as the confidence limits themselves - see PEST manual.

See file drain_highk.sen for parameter sensitivities.

Observations ----->

Observation	Measured value	Calculated value	Residual	Weight	Group
hed1	3689.73	2985.56	704.173	0.6533	head
hed2	3698.05	3344.25	353.802	0.6533	head
hed3	3696.72	2535.73	1160.99	0.6533	head
hed4	3700.85	1059.95	2640.90	0.6533	head
hed5	3706.41	3063.77	642.639	0.6533	head
hed6	3702.56	586.599	3115.96	0.6533	head
hed7	3604.85	2320.51	1284.34	0.6533	head
no_drnf0	1.00000	-5.096541E+06	5.096542E+06	1.0000E-19	drain
no_ghbf0	1.00000	4055.08	-4054.08	1.0000E-19	ghb
no_ghbf1	1.00000	12868.5	-12867.5	1.0000E-19	ghb
no_ghbf2	1.00000	5.072682E+06	-5.072681E+06	1.0000E-19	ghb
no_ghbf3	1.00000	10031.4	-10030.4	1.0000E-19	ghb
no_chdf0 const_head	1.00000	-133333.	133334.	1.0000E-19	
no_chdf1 const_head	1.00000	-1711.66	1712.66	1.0000E-19	
no_chdf2 const_head	1.00000	-2675.53	2676.53	1.0000E-19	
no_chdf3 const_head	1.00000	-45760.0	45761.0	1.0000E-19	
no_chdf4 const_head	1.00000	-13279.1	13280.1	1.0000E-19	
no_chdf5 const_head	1.00000	-3228.54	3229.54	1.0000E-19	
no_chdf6 const_head	1.00000	-111499.	111500.	1.0000E-19	
no_chdf7 const_head	1.00000	-35540.3	35541.3	1.0000E-19	
no_chdf8 const_head	1.00000	-69171.0	69172.0	1.0000E-19	
no_chdf9 const_head	1.00000	-66744.0	66745.0	1.0000E-19	
no_chdf10 const_head	1.00000	-133540.	133541.	1.0000E-19	
no_chdf11 const_head	1.00000	-1677.19	1678.19	1.0000E-19	
no_chdf12 const_head	1.00000	-2624.80	2625.80	1.0000E-19	
no_chdf13 const_head	1.00000	-45433.3	45434.3	1.0000E-19	
no_chdf14	1.00000	-13057.9	13058.9	1.0000E-19	

```
const_head
no_chdf15              1.00000       -3167.61        3168.61       1.0000E-19
const_head
no_chdf16              1.00000       -112387.        112388.       1.0000E-19
const_head
no_chdf17              1.00000       -34899.4        34900.4       1.0000E-19
const_head
no_chdf18              1.00000       -67986.9        67987.9       1.0000E-19
const_head
no_chdf19              1.00000       -66695.2        66696.2       1.0000E-19
const_head

See file drain_highk.res for more details of residuals in graph-ready format.

See file drain_highk.seo for composite observation sensitivities.


Objective function ----->

  Sum of squared weighted residuals (ie phi)                 =  8.8418E+06
  Contribution to phi from observation group "head"          =  8.8418E+06
  Contribution to phi from observation group "drain"         =  2.5975E-25
  Contribution to phi from observation group "ghb"           =  2.5732E-25
  Contribution to phi from observation group "const_head"    =  8.6012E-28


Correlation Coefficient ----->

  Correlation coefficient                                    =  0.8990


Analysis of residuals ----->

  All residuals:-
     Number of residuals with non-zero weight                        =    32
     Mean value of non-zero weighted residuals                       =   202.2
     Maximum weighted residual [observation "hed6"]                  =   2036.
     Minimum weighted residual [observation "no_ghbf2"]              = -5.0727E-13
     Standard variance of weighted residuals                         =  3.0489E+05
     Standard error of weighted residuals                            =   552.2

     Note: the above variance was obtained by dividing the objective
     function by the number of system degrees of freedom (ie. number of
     observations with non-zero weight plus number of prior information
     articles with non-zero weight minus the number of adjustable parameters.)
     If the degrees of freedom is negative the divisor becomes
     the number of observations with non-zero weight plus the number of
     prior information items with non-zero weight.

  Residuals for observation group "head":-
     Number of residuals with non-zero weight                        =     7
     Mean value of non-zero weighted residuals                       =   924.2
     Maximum weighted residual [observation "hed6"]                  =   2036.
     Minimum weighted residual [observation "hed2"]                  =   231.1
     "Variance" of weighted residuals                                =  1.2631E+06
     "Standard error" of weighted residuals                          =   1124.

     Note: the above "variance" was obtained by dividing the sum of squared
     residuals by the number of items with non-zero weight.

  Residuals for observation group "drain":-
     Number of residuals with non-zero weight                        =     1
     Mean value of non-zero weighted residuals                       =  5.0965E-13
```

```
   Maximum weighted residual [observation "no_drnf0"]            =  5.0965E-13
   Minimum weighted residual [observation "no_drnf0"]            =  5.0965E-13
   "Variance" of weighted residuals                              =  2.5975E-25
   "Standard error" of weighted residuals                        =  5.0965E-13

   Note: the above "variance" was obtained by dividing the sum of squared
   residuals by the number of items with non-zero weight.

 Residuals for observation group "ghb":-
   Number of residuals with non-zero weight                      =     4
   Mean value of non-zero weighted residuals                     = -1.2749E-13
   Maximum weighted residual [observation "no_ghbf0"]            = -4.0541E-16
   Minimum weighted residual [observation "no_ghbf2"]            = -5.0727E-13
   "Variance" of weighted residuals                              =  6.4331E-26
   "Standard error" of weighted residuals                        =  2.5364E-13

   Note: the above "variance" was obtained by dividing the sum of squared
   residuals by the number of items with non-zero weight.

 Residuals for observation group "const_head":-
   Number of residuals with non-zero weight                      =    20
   Mean value of non-zero weighted residuals                     =  4.8222E-15
   Maximum weighted residual [observation "no_chdf10"]           =  1.3354E-14
   Minimum weighted residual [observation "no_chdf11"]           =  1.6782E-16
   "Variance" of weighted residuals                              =  4.3006E-29
   "Standard error" of weighted residuals                        =  6.5579E-15

   Note: the above "variance" was obtained by dividing the sum of squared
   residuals by the number of items with non-zero weight.


Parameter covariance matrix ----->

                hk_800      ghb_300      ghb_400
hk_800          17.88      -9.1371E+04   9.7420E+04
ghb_300       -9.1371E+04   6.4978E+08  -8.5564E+08
ghb_400        9.7420E+04  -8.5564E+08   1.6246E+09


Parameter correlation coefficient matrix ----->

                hk_800      ghb_300      ghb_400
hk_800          1.000      -0.8476       0.5715
ghb_300       -0.8476        1.000      -0.8328
ghb_400        0.5715      -0.8328        1.000


Normalized eigenvectors of parameter covariance matrix ----->

              Vector_1     Vector_2     Vector_3
hk_800          1.000       1.9705E-04   6.1332E-05
ghb_300        2.0118E-04  -0.8646      -0.5025
ghb_400        4.5994E-05  -0.5025       0.8646


Eigenvalues ----->

                3.983       1.5246E+08   2.1219E+09
```

```
3 0 0 3
0 0 0 0
HK_800 1 1 1.4 0.001 20.0 1.0
GHB_300 1 0 0.1 0.001 1000.0 1.0
GHB_400 1 0 0.1 0.001 1000.0 1.0
```

```
#GMS_HDF5_01
1 40 AUX IFACE AUX QFACT AUX CELLGRP
         1         0         0
GMS_HDF5_01 "DRAIN_HIGHK.h5" "Well" 1
```