THIS RUN EXECUTED 11/11/81 7:49:17

```
**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
**************************************************

T1      YANCEY CO NC FEMA STUDY          DSN IS BALDF                                  5
T2      100 YR FLOOD                     JCL IS BALDF1                                 10
T3      BALD CREEK                       100 YR FLOODWAY                               15

J1  ICHECK    INQ    NINV    IDIR    STRT  METRIC   HVINS      Q      WSEL     FQ

          0.      4.      0.      0. 0.00582      0.    0.0       0.    0.0      0.0     20

J2  NPROF   IPLOT    PRFVS    XSECV   XSECH      FN   ALLDC     IBW   CHNIM ITRACE

          0.      0.     -1.      0.      0.    0.0     0.0       0.      0.      0.     25

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

       110.00    0.0   200.00    0.0     0.0     0.0     0.0     0.0     0.0     0.0     30

  QT       5.   2625.   4645.   5755.   9100.   5755.      0.      0.      0.      0.     35
  NC   0.120   0.120   0.045     0.1     0.5                                              40
  ET       0.    0.0     0.0     0.0     0.0    7.11   95.00  345.00     0.0     0.0     45


  X1    0.12      15.     98.    157.      0.      0.      0.     0.0     0.0      0.     50
  GR 2498.1       54.   2495.0    64.   2486.5    74.   2486.5    98.   2479.0   118.    55
  GR 2476.4      127.   2476.6   140.   2477.4   150.   2481.7   157.   2482.1   170.    60
  GR 2481.9      250.   2481.8   360.   2482.7   457.   2486.2   547.   2502.5   580.    65
  NC   0.110   0.110     0.040     0.0     0.0                                            70
  ET       0.    0.0     0.0     0.0     0.0    7.11   95.00  345.00     0.0     0.0     75


  X1    0.12      15.    118.    157.     60.     60.     60.     0.0     0.0      0.     80
  X3      10.      0.0     0.0      0.     0.0      0.     0.0  2486.9  2483.5             85
  GR 2498.1       54.   2495.0    64.   2486.5    74.   2486.5    98.   2479.0   118.    90
  GR 2476.4      127.   2476.6   140.   2477.4   150.   2481.7   157.   2482.1   170.    95
  GR 2481.9      250.   2481.8   360.   2482.7   457.   2486.2   547.   2502.5   580.   100
  SB    1.25     1.60     3.00      0.    33.00    0.50  263.00     0.0  2475.8  2475.8   105
  ET       0.    0.0     0.0     0.0     0.0    7.11   95.00  345.00     0.0     0.0    110


  X1    0.12       0.      0.      0.     28.     28.     28.     0.0     0.0      0.    115
  X2       0.      0.0     1.   2483.9  2484.0     0.      0.     0.0     0.0      0.    120
  X3      10.      0.0     0.0      0.     0.0      0.     0.0  2487.4  2484.0             125
  BT    12.0     54.0  2498.1      0.0    64.0  2495.0     0.0    70.0  2489.5      0.0   130
  BT   118.0   2487.4     0.0    118.0  2489.0     0.0   157.0  2487.2     0.0    157.0   135
  BT  2485.5      0.0   258.0   2484.0     0.0   358.0  2484.5     0.0   458.0   2487.0   140
  BT     0.0    558.0  2491.7      0.0   580.0  2502.5     0.0     0.0     0.0      0.0   145
  ET       0.    0.0     0.0     0.0     0.0    7.11   95.00  345.00     0.0     0.0    150


  X1    0.12      15.     98.    157.     15.     15.     15.     0.0     0.0      0.    155
```

801

GR	2498.1	54.	2495.0	64.	2486.5	74.	2486.5	98.	2479.0	118.	160
GR	2476.4	127.	2476.6	140.	2477.4	150.	2481.7	157.	2482.1	170.	165
GR	2481.9	250.	2481.8	360.	2482.7	457.	2486.2	547.	2502.5	580.	170
QT	5.	2600.	4620.	5720.	9040.	5720.	0.	0.	0.	0.	175
ET	0.	0.0	0.0	0.0	0.0	7.11	95.00	345.00	0.0	0.0	180
X1	0.26	0.	0.	0.	590.	590.	590.	0.0	5.80	0.	185
QT	5.	2595.	4590.	5690.	8985.	5690.	0.	0.	0.	0.	190
NC	0.110	0.120	0.040	0.0	0.0						195
ET	0.	0.0	0.0	0.0	0.0	7.11	410.00	660.00	0.0	0.0	200
X1	0.39	17.	617.	656.	595.	595.	595.	0.0	0.0	0.	205
GR	2505.5	0.	2498.0	59.	2494.0	130.	2490.9	220.	2490.7	233.	210
GR	2490.7	340.	2489.7	371.	2489.7	617.	2485.1	626.	2484.3	637.	215
GR	2484.3	648.	2485.6	653.	2489.3	656.	2492.5	665.	2493.8	690.	220
GR	2493.8	723.	2504.7	739.	0.0	0.	0.0	0.	0.0	0.	225
ET	0.	0.0	0.0	0.0	0.0	7.11	410.00	660.00	0.0	0.0	230
X1	0.39	0.	0.	0.	40.	40.	40.	0.0	0.0	0.	235
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2489.2	2490.5		240
SB	1.25	1.60	3.00	0.	25.00	0.50	130.00	0.0	2484.3	2484.3	245
ET	0.	0.0	0.0	0.0	0.0	7.11	410.00	660.00	0.0	0.0	250
X1	0.39	0.	0.	0.	12.	12.	12.	0.0	0.0	0.	255
X2	0.	0.0	1.	2489.6	2489.7	0.0	0.	0.0	0.0	0.	260
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2489.7	2491.0		265
BT	17.0	0.0	2505.5	0.0	59.0	2498.0	0.0	130.0	2494.0	0.0	270
BT	220.0	2490.9	0.0	233.0	2490.7	0.0	340.0	2490.7	0.0	371.0	275
BT	2489.7	0.0	450.0	2489.7	0.0	622.0	2490.4	0.0	622.0	2491.0	280
BT	0.0	655.0	2491.0	0.0	662.0	2491.5	0.0	665.0	2492.5	0.0	285
BT	690.0	2493.9	0.0	712.0	2493.8	0.0	723.0	2493.8	0.0	739.0	290
BT	2504.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	295
NC	0.110	0.100	0.040	0.0	0.8						300
ET	0.	0.0	0.0	0.0	0.0	7.11	410.00	660.00	0.0	0.0	305
X1	0.40	0.	0.	0.	50.	50.	50.	0.0	1.70	0.	310
QT	5.	2470.	4360.	5400.	8520.	5400.	0.	0.	0.	0.	315
NC	0.110	0.110	0.040	0.0	0.5						320
ET	0.	0.0	0.0	0.0	0.0	7.11	145.00	395.00	0.0	0.0	325
X1	0.79	22.	184.	223.	1980.	1980.	1980.	0.0	0.0	0.	330
GR	2521.9	25.	2517.6	40.	2514.7	115.	2512.7	135.	2513.3	148.	335
GR	2513.4	150.	2509.7	184.	2502.4	194.	2501.1	200.	2501.2	204.	340
GR	2501.9	206.	2502.5	217.	2506.7	223.	2506.6	230.	2506.2	256.	345
GR	2506.4	272.	2505.7	372.	2507.4	470.	2512.1	572.	2514.5	657.	350
GR	2515.7	677.	2523.1	727.	0.0	0.	0.0	0.	0.0	0.	355
NC	0.0	0.0	0.035	0.0	0.8						360
ET	0.	0.0	0.0	0.0	0.0	7.11	145.00	395.00	0.0	0.0	365
X1	0.79	22.	148.	230.	80.	80.	80.	0.0	0.0	0.	370
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2516.7	2517.0		375
GR	2521.9	25.	2517.6	40.	2514.7	115.	2512.7	135.	2513.3	148.	380
GR	2507.3	148.	2505.0	169.	2502.4	194.	2501.2	200.	2501.2	204.	385

CO1

```
GR 2501.9   206.  2502.5   217.  2506.7   223.  2506.6   230.  2506.2   256.   390
GR 2506.4   272.  2505.7   372.  2507.4   470.  2512.1   572.  2514.5   657.   395
GR 2515.7   677.  2523.1   727.     0.0     0.     0.0     0.     0.0     0.   400
SB   1.25   1.60    3.00     0.   64.00   0.50  838.00    0.0  2501.2  2501.2  405
NC   0.0     0.0     0.0     0.0    0.5                                        410
ET     0.    0.0     0.0     0.0    0.0   7.11  145.00  395.00    0.0     0.0  415

X1   0.79     0.      0.      0.    20.    20.    20.     0.0     0.0     0.   420
X2     0.    0.0      1.  2514.4  2517.2   0.0     0.     0.0     0.0     0.   425
X3    10.    0.0     0.0     0.     0.0     0.     0.0  2517.2  2517.5         430
BT    12.0   25.0  2521.9     0.0   40.0  2517.6    0.0   49.0  2517.2     0.0  435
BT   145.0 2517.7     0.0   145.0 2520.8     0.0  234.0 2520.9     0.0   234.0  440
BT  2517.6    0.0   250.0  2517.5    0.0   445.0 2517.5     0.0   657.0  2517.5  445
BT     0.0  690.0  2517.5     0.0  727.0  2523.1    0.0     0.0     0.0     0.0  450
NC   0.100  0.120   0.045     0.0    0.8                                        455
ET     0.    0.0     0.0     0.0    0.0   7.11  145.00  395.00    0.0     0.0  460

X1   0.80    22.    184.    223.    40.    40.    40.     0.0    2.40     0.   465
GR 2521.9    25.  2517.6    40.  2514.7   115.  2512.7   135.  2513.3   148.  470
GR 2513.4   150.  2509.7   184.  2502.4   194.  2501.1   200.  2501.2   204.  475
GR 2501.9   206.  2502.5   217.  2506.7   223.  2506.6   230.  2506.2   256.  480
GR 2506.4   272.  2505.7   372.  2507.4   470.  2512.1   572.  2514.5   657.  485
GR 2515.7   677.  2523.1   727.     0.0     0.     0.0     0.     0.0     0.  490
QT     5.  2345.  4140.  5120.  8070.  5120.      0.      0.      0.      0.  495
NC   0.100 0.120  0.040     0.0    0.0                                        500
ET     0.    0.0     0.0     0.0    0.0   7.11  505.00  755.00    0.0     0.0  505

X1   1.17    16.    700.    751.  2015.  2015.  2015.     0.0     0.0     0.   510
GR 2540.5    24.  2534.5    85.  2533.5    90.  2527.5   235.  2523.8   305.  515
GR 2523.8   700.  2522.9   708.  2519.3   716.  2519.0   722.  2518.5   725.  520
GR 2518.3   728.  2519.3   731.  2518.8   735.  2524.3   751.  2528.0   810.  525
GR 2540.0   853.     0.0     0.     0.0     0.     0.0     0.     0.0     0.  530
QT     5.  2240.  3950.  4885.  7695.  4885.      0.      0.      0.      0.  535
ET     0.    0.0     0.0     0.0    0.0   7.11  105.00  195.00    0.0     0.0  540

X1   1.49    16.    145.    184.  1680.  1680.  1680.     0.0   -5.00     0.   545
GR 2562.0    10.  2557.5    15.  2557.5    61.  2543.8    92.  2543.4   125.  550
GR 2543.5   137.  2542.7   145.  2540.0   148.  2539.0   150.  2538.4   154.  555
GR 2538.0   169.  2539.0   174.  2540.7   177.  2543.9   184.  2543.4   215.  560
GR 2562.6   248.     0.0     0.     0.0     0.     0.0     0.     0.0     0.  565
QT     5.  2210.  3900.  4820.  7590.  4820.      0.      0.      0.      0.  570
NC   0.100 0.120  0.045     0.0    0.0                                        575
ET     0.    0.0     0.0     0.0    0.0   7.11  105.00  195.00    0.0     0.0  580

X1   1.57    16.    145.    184.   510.   510.   510.     0.0     0.0     0.   585
GR 2562.0    10.  2557.5    15.  2557.5    61.  2543.8    92.  2543.4   125.  590
GR 2543.5   137.  2542.7   145.  2540.0   148.  2539.0   150.  2538.4   154.  595
GR 2538.0   169.  2539.0   174.  2540.7   177.  2543.9   184.  2543.4   215.  600
GR 2562.6   248.     0.0     0.     0.0     0.     0.0     0.     0.0     0.  605
ET     0.    0.0     0.0     0.0    0.0   7.11  105.00  195.00    0.0     0.0  610

X1   1.58     0.      0.      0.    40.    40.    40.     0.0     0.0     0.   615
X3    10.    0.0     0.0     0.     0.0     0.     0.0  2543.0  2542.9         620
SB   1.25    1.60    3.00     0.   19.00   0.01  120.00    0.0  2537.5  2537.5  625
```

```
ET     0.    0.0     0.0     0.0     0.0     7.11   105.00  195.00    0.0     0.0     630

X1    1.58     0.      0.      0.     12.     12.     12.     0.0     0.0      0.     635
X2      0.    0.0      1.  2543.8  2543.4     0.0      0.     0.0     0.0      0.     640
X3     10.    0.0     0.0      0.     0.0      0.     0.0  2543.5  2543.4               645
BT   12.0   10.0  2562.0     0.0    15.0  2557.5     0.0    61.0  2557.5     0.0     650
BT   85.0 2544.3     0.0   119.0  2543.4     0.0   147.0  2544.9     0.0   147.0     655
BT 2545.1    0.0   179.0  2544.4     0.0   179.0  2544.1     0.0   184.0  2543.9     660
BT    0.0  215.0  2543.4     0.0   248.0  2562.6     0.0     0.0     0.0     0.0     665
NC  0.120  0.120   0.045     0.0     0.8                                              670
ET     0.    0.0     0.0     0.0     0.0     7.11   105.00  195.00    0.0     0.0     675

X1    1.58    16.   145.    184.    10.     10.     10.     0.0     0.0      0.     680
GR 2562.0    10.  2557.5    15.  2557.5    61.  2543.8    92.  2543.4   125.     685
GR 2543.5   137.  2542.7   145.  2540.0   148.  2539.0   150.  2538.4   154.     690
GR 2538.0   169.  2539.0   174.  2540.7   177.  2543.9   184.  2543.4   215.     695
GR 2562.6   248.     0.0     0.     0.0     0.     0.0     0.     0.0     0.     700
QT     5.  2150.  3795.  4690.  7375.  4690.     0.      0.      0.      0.     705
NC  0.120  0.120  0.045     0.0     0.0                                              710
ET     0.    0.0     0.0     0.0     0.0     7.11   110.00  180.00    0.0     0.0     715

X1    1.75    20.   130.    164.    890.    890.    890.     0.0     0.0      0.     720
GR 2575.0    23.  2562.9    23.  2562.9    50.  2562.5    72.  2559.1   110.     725
GR 2559.0   112.  2556.7   118.  2556.0   130.  2552.9   132.  2552.0   140.     730
GR 2550.4   147.  2550.5   150.  2551.0   153.  2555.0   160.  2556.6   164.     735
GR 2558.2   225.  2558.3   247.  2565.0   268.  2568.0   285.  2571.6   299.     740
NC   0.0     0.0     0.0     0.0     0.5                                              745
ET     0.    0.0     0.0     0.0     0.0     7.11   110.00  180.00    0.0     0.0     750

X1    1.76     0.      0.      0.     40.     40.     40.     0.0     0.0      0.     755
X3     10.    0.0     0.0      0.     0.0      0.     0.0  2561.7  2559.9               760
SB    1.25    1.60    3.00      0.    31.00    0.50  345.00     0.0  2550.0  2550.0     765
ET     0.    0.0     0.0     0.0     0.0     7.11   110.00  180.00    0.0     0.0     770

X1    1.76     0.      0.      0.     12.     12.     12.     0.0     0.0      0.     775
X2      0.    0.0      1.  2561.3  2560.4     0.0      0.     0.0     0.0      0.     780
X3     10.    0.0     0.0      0.     0.0      0.     0.0  2562.2  2560.4               785
BT   13.0   23.0  2575.0     0.0    23.0  2562.9     0.0    50.0  2562.9     0.0     790
BT   82.0 2562.7     0.0   107.0  2562.2     0.0   108.0  2562.7     0.0   164.0     795
BT 2561.6    0.0   164.0  2561.3     0.0   210.0  2560.7     0.0   253.0  2560.4     800
BT    0.0  268.0  2565.0     0.0   285.0  2568.0     0.0   299.0  2571.6     0.0     805
NC  0.130  0.120   0.045     0.0     0.8                                              810
ET     0.    0.0     0.0     0.0     0.0     7.11   110.00  180.00    0.0     0.0     815

X1    1.76    20.   130.    164.    10.     10.     10.     0.0     0.0      0.     820
GR 2575.0    23.  2562.9    23.  2562.9    50.  2562.5    72.  2559.1   110.     825
GR 2559.0   112.  2556.7   118.  2556.0   130.  2552.9   132.  2552.0   140.     830
GR 2550.4   147.  2550.5   150.  2551.0   153.  2555.0   160.  2556.6   164.     835
GR 2558.2   225.  2558.3   247.  2565.0   268.  2568.0   285.  2571.6   299.     840
QT     5.  2075.  3655.  4515.  7095.  4515.     0.      0.      0.      0.     845
NC  0.130  0.130  0.045     0.0     0.0                                              850
ET     0.    0.0     0.0     0.0     0.0     7.11   330.00  505.00    0.0     0.0     855
```

E01

```
X1   1.99     26.    429.    468.   1115.   1115.   1115.    0.0   -1.50     0.   860
GR 2585.5    100.  2582.9    104.  2581.1    123.  2582.0    125.  2574.1    139.  865
GR 2574.3    155.  2572.6    175.  2571.6    263.  2570.6    285.  2568.8    293.  870
GR 2569.1    300.  2567.6    429.  2564.2    435.  2563.8    440.  2563.7    445.  875
GR 2563.2    450.  2563.2    453.  2564.0    456.  2570.1    468.  2573.0    505.  880
GR 2573.4    542.  2573.4    569.  2574.5    587.  2574.0    592.  2581.5    665.  885
GR 2583.9    685.     0.0      0.     0.0      0.     0.0      0.     0.0      0.  890
NC   0.130  0.130   0.045     0.0     0.8                                          895
ET      0.    0.0     0.0     0.0     0.0    7.11  330.00   505.00    0.0     0.0  900

X1   2.00     26.    405.    495.     60.     60.     60.    0.0     0.0      0.  905
X3     10.    0.0     0.0      0.     0.0      0.     0.0 2570.0  2571.7           910
GR 2585.5    100.  2582.9    104.  2581.1    123.  2582.0    125.  2574.1    139.  915
GR 2574.3    155.  2572.6    175.  2571.6    263.  2570.6    285.  2568.8    293.  920
GR 2569.1    300.  2567.9    405.  2564.2    435.  2563.8    440.  2563.7    445.  925
GR 2563.2    450.  2563.2    453.  2563.7    465.  2570.5    495.  2573.0    505.  930
GR 2573.4    542.  2573.4    569.  2574.5    587.  2574.0    592.  2581.5    665.  935
GR 2583.9    685.     0.0      0.     0.0      0.     0.0      0.     0.0      0.  940
SB   1.25    1.60    3.00     0.    30.00    1.10  400.00    4.40  2563.7  2563.7  945
NC   0.0      0.0     0.0     0.0     0.5                                          950
ET      0.    0.0     0.0     0.0     0.0    7.11  330.00   505.00    0.0     0.0  955

X1   2.00      0.      0.      0.     26.     26.     26.    0.0     0.0      0.  960
X2     0.    0.0      1.  2570.5  2570.5     0.0      0.    0.0     0.0      0.  965
X3     10.    0.0     0.0      0.     0.0      0.     0.0 2570.5  2572.2           970
BT   22.0   100.0  2585.5     0.0   104.0  2582.9     0.0  123.0  2581.1     0.0  975
BT  125.0  2582.0     0.0   139.0  2574.1     0.0   155.0  2574.3     0.0   175.0  980
BT 2572.6     0.0   263.0  2571.6     0.0   285.0  2570.6     0.0   300.0  2570.6  985
BT    0.0   325.0  2570.5     0.0   404.0  2572.2     0.0   404.0  2573.5     0.0  990
BT  497.0  2573.5     0.0   497.0  2572.6     0.0   505.0  2573.0     0.0   542.0  995
BT 2573.4     0.0   569.0  2573.4     0.0   587.0  2574.5     0.0   592.0  2574.0 1000
BT    0.0   665.0  2581.5     0.0   685.0  2583.9     0.0     0.0     0.0     0.0 1005
NC   0.110  0.110   0.040     0.0     0.0                                          1010
ET      0.    0.0     0.0     0.0     0.0    7.11  330.00   505.00    0.0     0.0  1015

X1   2.00      0.      0.      0.     15.     15.     15.    0.0     0.0      0.  1020
QT      5.   1975.   3480.   4300.   6750.   4300.      0.     0.      0.      0.  1025
NC   0.110  0.120   0.040     0.0     0.0                                          1030
ET      0.    0.0     0.0     0.0     0.0    7.11  275.00   375.00    0.0     0.0  1035

X1   2.18     13.    316.    343.    945.    945.    945.    0.0     0.0      0.  1040
GR 2600.0    125.  2590.9    125.  2590.9    160.  2590.2    170.  2582.8    197.  1045
GR 2580.3    280.  2580.     316.  2575.0    323.  2573.8    326.  2575.0    339.  1050
GR 2580.1    343.  2580.0    417.  2600.0    494.     0.0      0.     0.0      0.  1055
NC   0.110  0.120   0.040     0.0     0.0                                          1060
ET      0.    0.0     0.0     0.0     0.0    7.11  275.00   375.00    0.0     0.0  1065

X1   2.19      0.      0.      0.     40.     40.     40.    0.0     0.0      0.  1070
X3     10.    0.0     0.0      0.     0.0      0.     0.0 2579.8  2579.5           1075
SB   1.25    1.60    3.00     0.    14.00    0.20   80.00    0.0  2573.8  2573.8  1080
ET      0.    0.0     0.0     0.0     0.0    7.11  275.00   375.00    0.0     0.0  1085

X1   2.19      0.      0.      0.     12.     12.     12.    0.0     0.0      0.  1090
X2     0.    0.0      1.  2579.6  2580.0    0.0      0.     0.0     0.0      0.  1095
```

```
X3    10.     0.0     0.0      0.     0.0      0.     0.0  2580.3  2580.0          1100
BT    15.0    125.0   2600.0   0.0    125.0    2590.9 0.0  160.0   2590.9  0.0     1105
BT    170.0   2590.2  0.0      190.0  2585.2   0.0    227.0 2582.0   0.0     260.0   1110
BT  2581.0    0.0     290.0    2580.3 0.0      315.0  2580.3 0.0     336.0   2580.1  1115
BT    0.0     336.0   2579.7   0.0    342.0    2579.7 0.0  343.0   2580.1  0.0     1120
BT    417.0   2580.0  0.0      494.0  2600.0   0.0    0.0  0.0     0.0     0.0     1125
NC  0.110   0.110   0.045    0.0    0.0                                             1130
ET    0.      0.0     0.0      0.0    0.0      7.11   275.00 375.00  0.0     0.0     1135

X1    2.19    0.      0.       0.     10.      10.    10.  0.0     0.0     0.      1140
QT    5.      1920.   3380.    4175.  6550.    4175.  0.   0.      0.      0.      1145
NC  0.110   0.110   0.045    0.0    0.0                                             1150
ET    0.      0.0     0.0      0.0    0.0      7.11   250.00 350.00  0.0     0.0     1155

X1    2.27    14.     287.     322.   340.     340.   340. 0.0     0.0     0.      1160
GR  2599.0    75.   2593.7     83.  2593.7     114.  2587.2 138.   2585.4  287.    1165
GR  2580.6    295.  2579.8     302. 2580.0     315.  2580.5 317.   2584.3  322.    1170
GR  2584.0    332.  2592.5     533. 2596.6     562.  2601.2 644.   0.0     0.      1175
ET    0.      0.0     0.0      0.0    0.0      7.11   250.00 350.00  0.0     0.0     1180

X1    2.27    0.      0.       0.     40.      40.    40.  0.0     0.0     0.      1185
X3    10.     0.0     0.0      0.     0.0      0.     0.0  2584.5  2584.8          1190
SB    1.25    1.60    3.00     0.     15.00    0.01   75.00 0.0    2580.0  2580.0  1195
ET    0.      0.0     0.0      0.0    0.0      7.11   250.00 350.00  0.0     0.0     1200

X1    2.27    0.      0.       0.     12.      12.    12.  0.0     0.0     0.      1205
X2    0.      0.0     1.     2585.0 2585.0     0.0    0.   0.0     0.0     0.      1210
X3    10.     0.0     0.0      0.     0.0      0.     0.0  2585.0  2585.3          1215
BT    15.0    75.0    2600.0   0.0    83.0     2594.5 0.0  125.0   2594.5  0.0     1220
BT    149.0   2590.2  0.0      195.0  2587.1   0.0    240.0 2586.0   0.0     287.0   1225
BT  2585.4    0.0     288.0    2585.0 0.0      309.0  2586.6 0.0     327.0   2586.5  1230
BT    0.0     332.0   2586.2   0.0    363.0    2585.3 0.0  527.0   2592.4  0.0     1235
BT    562.0   2597.3  0.0      644.0  2601.9   0.0    0.0  0.0     0.0     0.0     1240
NC  0.110   0.090   0.045    0.0    0.0                                             1245
ET    0.      0.0     0.0      0.0    0.0      7.11   250.00 350.00  0.0     0.0     1250

X1    2.27    0.      0.       0.     10.      10.    10.  0.0     0.70    0.      1255
QT    5.      1810.   3180.    3925.  6150.    3925.  0.   0.      0.      0.      1260
NC  0.120   0.110   0.045    0.0    0.0                                             1265
ET    0.      0.0     0.0      0.0    0.0      7.11   400.00 550.00  0.0     0.0     1270

X1    2.43    20.     475.     515.   720.     720.   720. 0.0     0.0     0.      1275
GR  2615.2    51.   2607.3     55.  2606.2     62.   2605.7 65.    2605.0  105.    1280
GR  2598.7    116.  2597.7     161. 2597.0     172.  2596.5 210.   2592.2  364.    1285
GR  2592.2    475.  2591.5     478. 2587.5     481.  2586.5 482.   2588.4  504.    1290
GR  2593.4    515.  2593.4     578. 2597.4     594.  2597.5 605.   2607.7  660.    1295
NC  0.090   0.080   0.045    0.0    0.0                                             1300
ET    0.      0.0     0.0      0.0    0.0      7.11   400.00 550.00  0.0     0.0     1305

X1    2.43    0.      0.       0.     60.      60.    60.  0.0     0.0     0.      1310
X3    10.     0.0     0.0      0.     0.0      0.     0.0  2593.9  2593.0          1315
SB    1.25    1.60    3.00     0.     18.00    0.30   110.00 0.0   2586.3  2586.3  1320
ET    0.      0.0     0.0      0.0    0.0      7.11   400.00 550.00  0.0     0.0     1325
```

```
X1   2.43     0.     0.     0.    12.    12.    12.   0.0    0.0     0.   1330
X2      0.    0.0     1.  2592.5 2593.5   0.0     0.   0.0    0.0     0.  1335
X3     10.    0.0    0.0     0.    0.0    0.     0.0 2594.4 2593.5         1340
BT   17.0   51.0 2615.2    0.0   55.0 2607.3    0.0   62.0 2606.2    0.0   1345
BT  102.0 2606.2    0.0  123.0 2606.7    0.0  143.0 2606.4    0.0  155.0  1350
BT 2603.7    0.0  207.0 2600.0    0.0  280.0 2596.6    0.0  381.0 2594.4  1355
BT    0.0  475.0 2594.4    0.0  515.0 2594.4    0.0  545.0 2594.4    0.0  1360
BT  578.0 2593.5    0.0  594.0 2597.4    0.0  605.0 2597.5    0.0  660.0  1365
BT 2607.7    0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0  1370
NC  0.110  0.080  0.045    0.0    0.8                                      1375
ET     0.    0.0    0.0    0.0    0.0   7.11 400.00 550.00    0.0    0.0  1380

X1   2.44     0.     0.     0.    15.    15.    15.   0.0   2.80     0.   1385
QT      5.  1700.  2990.  3690.  5775.  3690.     0.    0.     0.     0.  1390
NC  0.130  0.130  0.045    0.0    0.0                                      1395
ET     0.    0.0    0.0    0.0    0.0   7.11 400.00 550.00    0.0    0.0  1400

X1   2.58     0.     0.     0.   750.   750.   750.   0.0   9.20     0.   1405
QT      5.  1595.  2800.  3455.  5400.  3455.     0.     0.     0.     0.  1410
NC  0.120  0.140  0.045    0.0    0.0                                      1415
ET     0.    0.0    0.0    0.0    0.0   7.11 510.00 660.00    0.0    0.0  1420

X1   2.73    20.   624.   649.   785.   785.   785.   0.0    0.0     0.   1425
GR 2628.6    48. 2626.8    65. 2626.3    85. 2620.0   131. 2617.6   165.  1430
GR 2617.4   233. 2613.9   333. 2612.0   432. 2611.4   485. 2611.4   604.  1435
GR 2611.4   607. 2611.4   624. 2607.0   636. 2606.8   639. 2606.9   646.  1440
GR 2607.5   648. 2611.4   649. 2611.3   655. 2616.6   720. 2628.6   816.  1445
NC   0.0   0.0    0.0    0.0    0.5                                      1450
ET     0.    0.0    0.0    0.0    0.0   7.11 510.00 660.00    0.0    0.0  1455

X1   2.73     0.     0.     0.    40.    40.    40.   0.0    0.0     0.   1460
X3     10.    0.0    0.0     0.    0.0    0.     0.0 2610.9 2610.8         1465
SB   1.25   1.60   3.00     0.   21.00  0.50  78.00   0.0  2606.8 2606.8  1470
ET     0.    0.0    0.0    0.0    0.0   7.11 510.00 660.00    0.0    0.0  1475

X1   2.73     0.     0.     0.    12.    12.    12.   0.0    0.0     0.   1480
X2      0.    0.0     1.  2610.6 2611.3   0.0     0.   0.0    0.0     0.  1485
X3     10.    0.0    0.0     0.    0.0    0.     0.0 2611.4 2611.3         1490
BT   12.0   48.0 2628.6    0.0   95.0 2626.5    0.0  165.0 2617.6    0.0   1495
BT  233.0 2617.4    0.0  333.0 2613.9    0.0  432.0 2612.0    0.0  485.0  1500
BT 2611.4    0.0  612.0 2611.4    0.0  620.0 2611.6    0.0  655.0 2611.3  1505
BT    0.0  720.0 2616.6    0.0  816.0 2628.6    0.0    0.0    0.0    0.0  1510
NC  0.120  0.150  0.045    0.0    0.0                                      1515
ET     0.    0.0    0.0    0.0    0.0   7.11 510.00 660.00    0.0    0.0  1520

X1   2.73     0.     0.     0.    10.    10.    10.   0.0    0.0     0.   1525
QT      5.  1550.  2715.  3345.  5225.  3345.     0.     0.     0.     0.  1530
NC  0.160  0.160  0.060    0.0    0.8                                      1535
ET     0.    0.0    0.0    0.0    0.0   7.11 510.00 660.00    0.0    0.0  1540

X1   2.80     0.     0.     0.   370.   370.   370.   0.0   4.70     0.   1545
```

H01

```
QT      5.   1475.   2585.   3190.   4970.   3190.     0.     0.     0.     0.  1550
NC  0.160   0.160   0.060    0.0     0.8                                         1555
ET      0.    0.0     0.0    0.0     0.0     7.11  205.00 275.00    0.0    0.0  1560

X1   2.89     12.    215.    262.    500.    500.    500.    0.0  -1.50     0.  1565
GR 2640.0     48.  2632.6     59.  2627.6     74.  2625.3    215. 2622.6    225. 1570
GR 2620.0    242.  2621.6    260.  2624.7    262.  2625.5    291. 2630.5    308. 1575
GR 2634.0    320.  2640.7    353.     0.0      0.     0.0      0.    0.0      0.  1580
NC  0.150   0.140   0.055    0.0     0.0                                         1585
ET      0.    0.0     0.0    0.0     0.0     7.11  205.00 275.00    0.0    0.0  1590

X1   2.90      0.     0.      0.     60.     60.     60.    0.0   1.30     0.  1595
SB   1.25    1.60    3.00     0.   23.00    0.01  120.00    0.0 2619.8  2619.8  1600
NC  0.100   0.100   0.045    0.0     0.5                                         1605
ET      0.    0.0     0.0    0.0     0.0     7.11  205.00 275.00    0.0    0.0  1610

X1   2.90      0.     0.      0.     12.     12.     12.    0.0   0.20     0.  1615
X2      0.    0.0     1.  2625.0  2626.2     0.0     0.    0.0    0.0     0.  1620
X3     10.    0.0     0.0     0.     0.0     0.     0.0 2626.2 2626.5          1625
BT   12.0    48.0  2640.0     0.0   62.0  2632.6     0.0   66.0 2633.0     0.0 1630
BT   88.0  2632.6     0.0   125.0  2630.2     0.0   225.0 2626.2    0.0   225.0 1635
BT 2626.6     0.0   257.0  2626.6     0.0   257.0  2626.5    0.0  308.0  2630.5 1640
BT    0.0   320.0  2634.0     0.0   353.0  2640.7     0.0    0.0    0.0     0.0 1645
NC  0.130   0.110   0.045    0.0     0.8                                         1650
ET      0.    0.0     0.0    0.0     0.0     7.11  205.00 275.00    0.0    0.0  1655

X1   2.90      0.     0.      0.     15.     15.     15.    0.0    0.0     0.  1660
QT      5.  1440.  2525.   3110.   4845.   3110.     0.     0.     0.     0.  1665
NC  0.150   0.150   0.055    0.0     0.0                                         1670
ET      0.    0.0     0.0    0.0     0.0     7.11  205.00 275.00    0.0    0.0  1675

X1   2.95      0.     0.      0.    260.    260.    260.    0.0   2.50     0.  1680
QT      5.  1370.  2395.   2955.   4595.   2955.     0.     0.     0.     0.  1685
NC  0.160   0.160   0.060    0.0     0.8                                         1690
ET      0.    0.0     0.0    0.0     0.0     7.11  205.00 275.00    0.0    0.0  1695

X1   3.05      0.     0.      0.    490.    490.    490.    0.0   6.10     0.  1700
QT      5.  1260.  2195.   2705.   4195.   2705.     0.     0.     0.     0.  1705
NC  0.100   0.130   0.045    0.0     0.5                                         1710
ET      0.    0.0     0.0    0.0     0.0     7.11  175.00 305.00    0.0    0.0  1715

X1   3.20     17.    275.    304.    800.    800.    800.    0.0  -1.20     0.  1720
GR 2666.2     24.  2651.7     38.  2652.6     44.  2653.0     65. 2649.6     88. 1725
GR 2649.4    175.  2649.8    275.  2647.5    280.  2646.5    286. 2646.5    292. 1730
GR 2645.9    300.  2647.7    304.  2650.5    320.  2651.8    325. 2652.7    362. 1735
GR 2658.7    373.  2661.0    393.     0.0      0.     0.0      0.    0.0      0.  1740
ET      0.    0.0     0.0    0.0     0.0     7.11  175.00 305.00    0.0    0.0  1745

X1   3.21      0.     0.      0.     60.     60.     60.    0.0   1.20     0.  1750
X3     10.    0.0     0.0     0.     0.0     0.     0.0 2649.7 2652.9          1755
SB   1.25    1.60    3.00     0.   20.00    0.20   85.00    0.0 2645.9  2645.9  1760
ET      0.    0.0     0.0    0.0     0.0     7.11  175.00 305.00    0.0    0.0  1765
```

ET	0.	0.0	0.0	0.0	0.0	7.11	175.00	305.00	0.0	0.0	1765

X1	3.21	0.	0.	0.	13.	13.	13.	0.0	0.0	0.	1770
X2	0.	0.0	1.	2650.2	2650.2	0.0	0.	0.0	0.0	0.	1775
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2650.2	2653.4		1780
BT	12.0	24.0	2666.2	0.0	36.0	2653.9	0.0	65.0	2653.9	0.0	1785
BT	119.0	2650.2	0.0	230.0	2650.5	0.0	279.0	2652.5	0.0	279.0	1790
BT	2654.0	0.0	300.0	2654.3	0.0	300.0	2653.1	0.0	372.0	2658.3	1795
BT	0.0	373.0	2658.7	0.0	393.0	2661.0	0.0	0.0	0.0	0.0	1800
NC	0.110	0.130	0.045	0.0	0.0						1805
ET	0.	0.0	0.0	0.0	0.0	7.11	175.00	305.00	0.0	0.0	1810
X1	3.21	17.	275.	304.	15.	15.	15.	0.0	1.00	0.	1815
GR	2666.2	24.	2651.7	38.	2652.6	44.	2653.0	65.	2649.6	88.	1820
GR	2649.4	175.	2649.8	275.	2647.5	280.	2646.5	286.	2646.5	292.	1825
GR	2645.9	300.	2647.7	304.	2650.5	320.	2651.8	325.	2652.7	362.	1830
GR	2658.7	373.	2661.0	393.	0.0	0.	0.0	0.	0.0	0.	1835
QT	5.	1135.	1970.	2420.	3745.	2420.	0.	0.	0.	0.	1840
NC	0.130	0.150	0.045	0.0	0.0						1845
ET	0.	0.0	0.0	0.0	0.0	7.11	325.00	375.00	0.0	0.0	1850
X1	3.39	15.	329.	375.	970.	970.	970.	0.0	0.0	0.	1855
GR	2683.2	24.	2676.7	33.	2677.6	38.	2677.1	58.	2677.1	75.	1860
GR	2673.0	91.	2669.2	145.	2666.6	210.	2663.4	315.	2663.4	329.	1865
GR	2660.0	337.	2660.5	345.	2660.5	357.	2665.0	375.	2683.5	415.	1870
EJ											1875

*PROF 1

CCHV= 0.100 CEHV= 0.500
*SECNO .120
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

BALD CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.12	5755.	0.	3242.	2513.	0.68	0	431.	
2485.61	0.0	0.	376.	1184.	0.50	0	2486.50	
9.21	0.0	0.0	8.62	2.12	0.0	2486.29	2481.70	
0.005812	0.0	0.120	0.045	0.120	0.0	-0.00	100.38	
	2476.40	0.	0.	0.	27.	404.	531.74	0.

*SECNO .120

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2486.90 ELREA= 2483.50

0.12	5755.	0.	3162.	2593.	0.83	2	419.	
2485.83	0.0	0.	327.	1268.	0.15	0	2479.00	
9.43	0.0	0.0	9.68	2.05	0.30	2486.66	2481.70	
0.004215	0.039	0.110	0.040	0.110	0.07	-0.00	118.00	
	2476.40	60.	60.	60.	20.	400.	537.42	2.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2484.69 ,NOT 2485.83
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	33.00	0.50	263.00	0.0

ELCHU	ELCHD
2475.80	2475.80

*SECNO .120

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2497.72	2487.92	0.0	3637.	2121.	263.	263.	2483.90

ELTRD
2484.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2487.40 ELREA= 2484.00

0.12	5755.	0.	2785.	2970.	0.44	3	431.
2487.00	0.0	0.	372.	1723.	-0.38	0	2479.00
10.60	0.0	0.0	7.48	1.72	0.79	2487.44	2481.70

```
 0.002114      0.039      0.110      0.040      0.110        0.0      -0.00     118.00
              2476.40        28.        28.        28.       20.       411.     548.61          3.


*SECNO .120
      0.12       5755.        7.       2830.      2918.       0.30          2       476.
   2487.19        0.0       17.        468.      1797.      -0.15          0   2486.50
     10.79        0.0       0.44       6.04       1.62       0.03    2487.49   2481.70
  0.001783      0.039      0.110      0.040      0.110       0.01      -0.00     73.19
              2476.40        15.        15.        15.       54.       421.     549.00          4.


*SECNO .260

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

    BALD CREEK                    100 YR FLOOD          11/11/81
    MILE        Q          QLOB        QCH         QROB        HV          ITRIAL      TOPWID
    ELEV        CRIWS      ALOB        ACH         AROB        DHV         IDC         BANK ELEV
    DEPTH       WSELK      VLOB        VCH         VROB        HL          EG       LEFT/RIGHT
    SLOPE       WTN        XNL         XNCH        XNR         OLOSS       CORAR       SSTA
                ELMIN      XLOBL       XLCH        XLOBR       WSDL        WSDR        ENDST       VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      0.26       5720.        0.       3655.      2065.       1.27         20       406.
   2490.53    2490.53         0.        328.       865.       0.97         14   2492.30
      8.33        0.0        0.0       11.16       2.39       1.99    2491.79   2487.50
  0.008749      0.040      0.110      0.040      0.110       0.48      -0.00     102.73
              2482.20        590.       590.       590.       25.       382.     509.14         28.


*SECNO .390

3301 HV CHANGED MORE THAN HVINS

      0.39       5690.       3030.      2604.        56.       0.45          3       595.
   2494.09        0.0        1754.       337.        62.      -0.82          0   2489.70
      9.79        0.0         1.73       7.73       0.90       2.66    2494.54   2489.30
  0.002703      0.040      0.110      0.040      0.120       0.08      -0.00     128.40
              2484.30        595.       595.       595.       508.       87.     723.43         50.


*SECNO .390

*** GR CARDS REPEATED
      0.39       5690.       3074.      2554.        62.       0.41          2       598.
   2494.23        0.0        1824.       342.        72.      -0.04          0   2489.70
      9.93        0.0         1.68       7.46       0.87       0.10    2494.64   2489.30
  0.002460      0.040      0.110      0.040      0.120       0.00      -0.00     125.85
              2484.30         40.        40.        40.       511.       87.     723.64         53.


SPECIAL BRIDGE

SB     HK        XKOR       COFQ       RDLEN      BWC        BWP       BAREA       SS
```

```
    1.25      1.60      3.00       0.0      25.00      0.50     130.00       0.0
   ELCHU     ELCHD
 2484.30   2484.30

*SECNO .390

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2494.64 HIGHER THAN COMPUTED ENERGY OF 2494.46
PRESSURE AND WEIR FLOW

    EGPRS     EGLWC        H3     QWEIR       QPR     BAREA     TAREA      ELLC
  2541.83   2494.67      0.02      5337.      393.      130.      130.   2489.60

    ELTRD
  2489.70


     0.39      5690.     3075.     2552.       62.      0.41         2      598.
  2494.23       0.0     1826.      343.       72.     -0.00         0   2489.70
     9.93       0.0      1.68      7.45      0.87       0.0   2494.64    2489.30
 0.002455     0.040     0.110     0.040     0.120       0.0     -0.00    125.80
             2484.30       12.       12.       12.      511.       87.    723.64        53.


CCHV=   0.100 CEHV=   0.800
*SECNO .400

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

    BALD CREEK                    100 YR FLOOD          11/11/81
   MILE       Q          QLOB      QCH         QROB      HV          ITRIAL     TOPWID
   ELEV       CRIWS      ALOB      ACH         AROB      DHV         IDC        BANK ELEV
   DEPTH      WSELK      VLOB      VCH         VROB      HL          EG       LEFT/RIGHT
   SLOPE      WTN        XNL       XNCH        XNR       OLOSS       CORAR      SSTA
              ELMIN      XLOBL     XLCH        XLOBR     WSDL        WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     0.40      5690.     2420.     3242.       29.      1.21         2      499.
  2494.36   2494.36     1083.      281.       16.      0.80        10   2491.40
     8.36       0.0      2.23     11.54      1.80      0.20   2495.57    2491.00
 0.007663     0.040     0.110     0.040     0.100      0.64     -0.00    168.95
             2486.00       50.       50.       50.      468.       32.    668.04        55.


CCHV=   0.100 CEHV=   0.500
*SECNO .790
    BALD CREEK                    100 YR FLOOD          11/11/81
   MILE       Q          QLOB      QCH         QROB      HV          ITRIAL     TOPWID
   ELEV       CRIWS      ALOB      ACH         AROB      DHV         IDC        BANK ELEV
   DEPTH      WSELK      VLOB      VCH         VROB      HL          EG       LEFT/RIGHT
   SLOPE      WTN        XNL       XNCH        XNR       OLOSS       CORAR      SSTA
              ELMIN      XLOBL     XLCH        XLOBR     WSDL        WSDR       ENDST       VOL

     0.79      5400.        0.     2782.     2518.      0.99         4      343.
  2509.93       0.0        0.      257.      963.     -0.22         0   2509.70
     8.83       0.0      0.29     10.83      2.72     15.34   2510.93    2506.70
 0.007834     0.040     0.110     0.040     0.110      0.02     -0.00    181.87
```

M01

2501.10	1980.	1980.	1980.	22.	321.	524.96	114.

CCHV= 0.100 CEHV= 0.800
*SECNO .790

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2516.70 ELREA= 2517.00

0.79	5400.	0.	5400.	0.	1.76	2	82.	
2510.32	0.0	0.	508.	0.	0.76	0	2513.30	
9.12	0.0	0.0	10.63	0.0	0.54	2512.08	2506.60	
0.005952	0.040	0.110	0.035	0.110	0.61	-0.00	148.00	
	2501.20	80.	80.	80.	41.	41.	230.00	116.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	64.00	0.50	838.00	0.0

ELCHU	ELCHD
2501.20	2501.20

CCHV= 0.100 CEHV= 0.500
*SECNO .790

*** GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.= 2510.29 BRIDGE VELOCITY=, 9.35
CALCULATED CHANNEL AREA=, 577.

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
0.0	2512.12	0.09	0.	5400.	838.	838.	2514.40

ELTRD
2517.20

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2517.20 ELREA= 2517.50

0.79	5400.	0.	5400.	0.	1.71	0	82.	
2510.41	0.0	0.	515.	0.	-0.05	0	2513.30	
9.21	0.0	0.0	10.48	0.0	0.04	2512.12	2506.60	
0.005686	0.040	0.110	0.035	0.110	0.0	0.0	148.00	
	2501.20	20.	20.	20.	41.	41.	230.00	116.

CCHV= 0.100 CEHV= 0.800
*SECNO .800

BALD CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.80	5400.	0.	2920.	2480.	1.33	20	330.	
2511.84	2511.84	0.	238.	815.	-0.37	10	2512.10	
8.34	0.0	0.0	12.29	3.04	0.34	2513.17	2509.10	
0.013966	0.040	0.100	0.045	0.120	0.04	-0.00	184.36	
	2503.50	40.	40.	40.	19.	311.	514.19	117.

*SECNO 1.170

3301 HV CHANGED MORE THAN HVINS

1.17	5120.	2625.	2443.	52.	0.48	7	547.	
2526.92	0.0	1324.	314.	55.	-0.85	0	2523.80	
8.62	0.0	1.98	7.79	0.95	14.15	2527.40	2524.30	
0.004110	0.040	0.100	0.040	0.120	0.09	-0.00	246.00	
	2518.30	2015.	2015.	2015.	480.	67.	792.76	180.

*SECNO 1.490

3301 HV CHANGED MORE THAN HVINS

BALD CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.49	4885.	627.	3968.	290.	2.41	3	136.	
2541.86	2541.86	189.	289.	110.	1.93	8	2537.70	
8.86	0.0	3.32	13.75	2.64	10.28	2544.27	2538.90	
0.010346	0.040	0.100	0.040	0.120	1.55	-0.00	85.08	
	2533.00	1680.	1680.	1680.	79.	56.	220.95	224.

*SECNO 1.570

3301 HV CHANGED MORE THAN HVINS

1.57	4820.	766.	3695.	359.	1.70	2	138.	
2547.48	0.0	227.	313.	133.	-0.71	0	2542.70	
9.48	0.0	3.38	11.82	2.70	4.83	2549.17	2543.90	
0.008692	0.040	0.100	0.045	0.120	0.07	-0.00	83.68	
	2538.00	510.	510.	510.	81.	58.	222.01	232.

*SECNO 1.580

*** GR CARDS REPEATED

1.58	4820.	854.	3560.	406.	1.28	3	141.	
2548.22	0.0	273.	342.	162.	-0.42	0	2542.70	
10.22	0.0	3.13	10.42	2.51	0.29	2549.50	2543.90	
0.006000	0.040	0.100	0.045	0.120	0.04	-0.00	82.00	
	2538.00	40.	40.	40.	83.	59.	223.29	232.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	19.00	0.01	120.00	0.0

ELCHU	ELCHD
2537.50	2537.50

*SECNO 1.580

*** GR CARDS REPEATED
PRESS FLOW BECAUSE EGLWC OF 2549.51 EXCEEDS 1.5 DEPTH
6870 D.S. ENERGY OF 2549.50 HIGHER THAN COMPUTED ENERGY OF 2549.25
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2588.31	2549.51	0.00	4065.	772.	120.	120.	2543.80

ELTRD
2543.40

1.58	4820.	856.	3558.	407.	1.27	3	141.	
2548.23	0.0	274.	342.	162.	-0.01	0	2542.70	
10.23	0.0	3.13	10.40	2.51	0.0	2549.50	2543.90	
0.005968	0.040	0.100	0.045	0.120	0.0	-0.00	81.97	
	2538.00	12.	12.	12.	83.	59.	223.31	233.

CCHV= 0.100 CEHV= 0.800
*SECNO 1.580

1.58	4820.	739.	3659.	422.	1.36	1	142.	
2548.27	0.0	277.	344.	164.	0.09	0	2542.70	
10.27	0.0	2.67	10.64	2.57	0.06	2549.63	2543.90	
0.006202	0.040	0.120	0.045	0.120	0.07	-0.00	81.86	
	2538.00	10.	10.	10.	83.	59.	223.39	233.

*SECNO 1.750

3301 HV CHANGED MORE THAN HVINS

BALD CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALCB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.75	4690.	242.	3740.	708.	2.29	10	161.	
2560.62	2560.62	84.	276.	257.	0.93	5	2556.00	
10.22	0.0	2.88	13.53	2.76	7.35	2562.91	2556.60	
0.011638	0.041	0.120	0.045	0.120	0.75	-0.00	93.02	
	2550.40	890.	890.	890.	54.	107.	254.27	247.

CCHV= 0.100 CEHV= 0.500

*SECNO 1.760

*** GR CARDS REPEATED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2561.70 ELREA= 2559.90

1.76	4690.	0.	3804.	886.	2.06	3	126.	
2561.29	0.0	0.	299.	318.	-0.23	0	2556.00	
10.89	0.0	0.0	12.72	2.79	0.41	2563.35	2556.60	
0.009263	0.041	0.120	0.045	0.120	0.02	-0.00	130.00	
	2550.40	40.	40.	40.	17.	109.	256.35	248.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	31.00	0.50	345.00	0.0

ELCHU	ELCHD
2550.00	2550.00

*SECNO 1.760

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2563.39	2563.08	0.23	1550.	3173.	345.	345.	2561.30

ELTRD
2560.40

1.76	4690.	340.	3375.	975.	1.19	3	184.	
2562.20	0.0	157.	330.	404.	-0.87	0	2556.00	
11.80	0.0	2.18	10.22	2.41	0.04	2563.39	2556.60	
0.005234	0.041	0.120	0.045	0.120	0.0	-0.00	75.32	
	2550.40	12.	12.	12.	72.	112.	259.23	248.

CCHV= 0.100 CEHV= 0.800

*SECNO 1.760

1.76	4690.	320.	3380.	990.	1.18	0	185.	
2562.26	0.0	160.	333.	410.	-0.01	0	2556.00	
11.86	0.0	2.00	10.17	2.41	0.05	2563.44	2556.60	
0.005134	0.041	0.130	0.045	0.120	0.00	-0.00	74.57	
	2550.40	10.	10.	10.	72.	112.	259.44	248.

*SECNO 1.990

1.99	4515.	1325.	3171.	20.	1.61	6	243.	
2570.29	2570.10	497.	263.	18.	0.43	20	2566.10	
8.59	0.0	2.67	12.04	1.08	8.11	2571.90	2568.60	
0.011307	0.041	0.130	0.045	0.130	0.35	-0.00	246.38	
	2561.70	1115.	1115.	1115.	202.	41.	489.55	270.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.000

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.00	4515.	592.	3923.	0.	0.69	3	240.	
2571.69	0.0	383.	551.	0.	-0.92	0	2567.90	
8.49	0.0	1.54	7.13	0.0	0.39	2572.38	2570.50	
0.004225	0.041	0.130	0.045	0.130	0.09	-0.00	255.20	
	2563.20	60.	60.	60.	195.	45.	495.00	271.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2570.00 ELREA= 2571.70

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	30.00	1.10	400.00	4.40

ELCHU	ELCHD
2563.70	2563.70

CCHV= 0.100 CEHV= 0.500
*SECNO 2.000

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2574.86	2572.43	0.04	1496.	3029.	400.	400.	2570.50

ELTRD
2570.50

2.00	4515.	738.	3771.	5.	0.46	2	329.	
2572.66	0.0	571.	638.	9.	-0.23	0	2567.90	
9.46	0.0	1.29	5.91	0.58	0.73	2573.12	2570.50	
0.002385	0.041	0.130	0.045	0.130	0.0	-0.00	174.25	
	2563.20	26.	26.	26.	276.	54.	503.66	271.

*SECNO 2.000

*** GR CARDS REPEATED

2.00	4515.	777.	3733.	6.	0.44	0	330.	
2572.71	0.0	581.	642.	10.	-0.02	0	2567.90	
9.51	0.0	1.34	5.81	0.60	0.03	2573.15	2570.50	
0.001808	0.041	0.110	0.040	0.110	0.00	-0.00	173.72	
	2563.20	15.	15.	15.	276.	54.	503.83	272.

```
*SECNO 2.180

3301 HV CHANGED MORE THAN HVINS

    BALD CREEK                    100 YR FLOOD          11/11/81
   MILE        Q          QLOB        QCH         QROB        HV          ITRIAL      TOPWID
   ELEV        CRIWS      ALOB        ACH         AROB        DHV         IDC         BANK ELEV
   DEPTH       WSELK      VLOB        VCH         VROB        HL          EG       LEFT/RIGHT
   SLOPE       WTN        XNL         XNCH        XNR         OLOSS       CORAR       SSTA
               ELMIN      XLOBL       XLCH        XLOBR       WSDL        WSDR        ENDST       VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      2.18       4300.       721.       2786.       793.       1.75         20        237.
   2583.61    2583.61        292.        213.       289.       1.31          8     2580.30
      9.81        0.0        2.47       13.05       2.74       3.26    2585.36     2580.10
  0.009647       0.041      0.110       0.040      0.120       0.66      -0.00      194.03
              2573.80        945.        945.       945.       135.        101.     430.91       294.


*SECNO 2.190

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

      2.19       4300.       958.       2439.       904.       0.90          4        246.
   2584.81        0.0        439.        246.       396.      -0.85          0     2580.30
     11.01        0.0        2.18        9.93       2.28       0.26    2585.71     2580.10
  0.004634       0.041      0.110       0.040      0.120       0.08      -0.00      189.70
              2573.80         40.         40.        40.       140.        106.     435.48       295.


SPECIAL BRIDGE

SB     HK          XKOR        COFQ       RDLEN       BWC         BWP       BAREA        SS
       1.25        1.60        3.00         0.0       14.00       0.20       80.00        0.0
     ELCHU       ELCHD
   2573.80     2573.80

*SECNO 2.190

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2585.71 HIGHER THAN COMPUTED ENERGY OF 2585.23
    BALD CREEK                    100 YR FLOOD          11/11/81
   MILE        Q          QLOB        QCH         QROB        HV          ITRIAL      TOPWID
   ELEV        CRIWS      ALOB        ACH         AROB        DHV         IDC         BANK ELEV
   DEPTH       WSELK      VLOB        VCH         VROB        HL          EG       LEFT/RIGHT
   SLOPE       WTN        XNL         XNCH        XNR         OLOSS       CORAR       SSTA
               ELMIN      XLOBL       XLCH        XLOBR       WSDL        WSDR        ENDST       VOL

PRESSURE AND WEIR FLOW

     EGPRS       EGLWC         H3       QWEIR        QPR       BAREA       TAREA        ELLC
   2656.58     2585.75       0.05        3996.       331.        80.         80.     2579.60

     ELTRD
   2580.00
```

2.19	4300.	959.	2436.	904.	0.90	3	246.	
2584.81	0.0	441.	246.	397.	-0.00	0	2580.30	
11.01	0.0	2.18	9.91	2.28	0.0	2585.71	2580.10	
0.004608	0.041	0.110	0.040	0.120	0.0	-0.00	189.66	
	2573.80	12.	12.	12.	140.	106.	435.52	295.

*SECNO 2.190

*** GR CARDS REPEATED

2.19	4300.	1061.	2181.	1058.	0.62	2	249.	
2585.16	0.0	487.	256.	431.	-0.28	0	2580.30	
11.36	0.0	2.18	8.54	2.46	0.04	2585.78	2580.10	
0.004107	0.041	0.110	0.045	0.110	0.03	-0.00	188.34	
	2573.80	10.	10.	10.	141.	107.	436.91	295.

*SECNO 2.270

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.27	4175.	613.	2945.	617.	1.52	20	298.	
2588.25	2588.25	293.	252.	255.	0.90	19	2585.40	
8.45	0.0	2.09	11.67	2.42	2.05	2589.77	2584.30	
0.009918	0.041	0.110	0.045	0.110	0.45	-0.00	134.12	
	2579.80	340.	340.	340.	170.	128.	432.54	303.

*SECNO 2.270

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

2.27	4175.	888.	2544.	743.	0.75	4	329.	
2589.36	0.0	464.	291.	392.	-0.77	0	2585.40	
9.56	0.0	1.91	8.74	1.90	0.26	2590.10	2584.30	
0.004597	0.041	0.110	0.045	0.110	0.08	-0.00	130.03	
	2579.80	40.	40.	40.	174.	154.	458.70	304.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.01	75.00	0.0
ELCHU	ELCHD							
2580.00	2580.00							

*SECNO 2.270

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2590.10 HIGHER THAN COMPUTED ENERGY OF 2589.88
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2666.35	2590.11	0.00	3834.	343.	75.	75.	2585.00

ELTRD
2585.00

2.27	4175.	889.	2542.	744.	0.74	3	329.	
2589.36	0.0	465.	291.	392.	-0.00	0	2585.40	
9.56	0.0	1.91	8.73	1.90	0.0	2590.10	2584.30	
0.004581	0.041	0.110	0.045	0.110	0.0	-0.00	130.01	
	2579.80	12.	12.	12.	174.	154.	458.84	304.

*SECNO 2.270

*** GR CARDS REPEATED

BALD CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.27	4175.	667.	2741.	767.	1.15	2	306.	
2589.22	0.0	334.	262.	285.	0.41	0	2586.10	
8.72	0.0	2.00	10.48	2.69	0.06	2590.37	2585.00	
0.007606	0.041	0.110	0.045	0.090	0.20	-0.00	133.13	
	2580.50	10.	10.	10.	171.	134.	438.89	304.

*SECNO 2.430

2.43	3925.	1093.	2600.	232.	1.10	3	330.	
2595.24	0.0	502.	255.	123.	-0.05	0	2592.20	
8.74	0.0	2.18	10.21	1.89	5.96	2596.33	2593.40	
0.009104	0.041	0.120	0.045	0.110	0.01	-0.00	255.26	
	2586.50	720.	720.	720.	240.	90.	585.35	319.

*SECNO 2.430

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

2.43	3925.	1538.	1974.	413.	0.37	3	374.	
2596.33	0.0	763.	298.	202.	-0.72	0	2592.20	
9.83	0.0	2.01	6.62	2.05	0.30	2596.70	2593.40	
0.003097	0.041	0.090	0.045	0.080	0.07	-0.00	216.16	
	2586.50	60.	60.	60.	279.	95.	589.71	320.

```
SPECIAL BRIDGE

SB     HK      XKOR      COFQ     RDLEN      BWC       BWP     BAREA       SS
      1.25     1.60      3.00      0.0      18.00      0.30    110.00      0.0
   ELCHU     ELCHD
  2586.30   2586.30

*SECNO 2.430

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

    EGPRS     EGLWC        H3     QWEIR       QPR     BAREA     TAREA      ELLC
  2627.96   2596.72      0.02     3312.      630.      110.      110.   2592.50

    ELTRD
  2593.50


     2.43     3925.     1644.     1824.      457.      0.26         2      411.
  2596.88       0.0      916.      321.      244.     -0.11         0   2592.20
    10.38       0.0      1.79      5.69      1.87      0.44   2597.14   2593.40
 0.002079     0.041     0.090     0.045     0.080       0.0     -0.00    180.77
            2586.50       12.       12.       12.      314.       97.    591.94     321.

CCHV=   0.100 CEHV=   0.800
*SECNO 2.440

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

    BALD CREEK                     100 YR FLOOD            11/11/81
   MILE         Q       QLOB      QCH      QROB       HV      ITRIAL     TOPWID
   ELEV      CRIWS      ALOB      ACH      AROB       DHV     IDC        BANK ELEV
   DEPTH     WSELK      VLOB      VCH      VROB       HL      EG      LEFT/RIGHT
   SLOPE       WTN       XNL     XNCH       XNR      OLOSS    CORAR      SSTA
             ELMIN     XLOBL     XLCH     XLOBR      WSDL     WSDR       ENDST      VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     2.44     3925.     1073.     2591.      261.      1.19        20      319.
  2597.77   2597.77      445.      244.      104.      0.93        14   2595.00
     8.47       0.0      2.41     10.62      2.52      0.06   2598.96   2596.20
 0.010424     0.041     0.110     0.045     0.080      0.74     -0.00    264.80
            2589.30       15.       15.       15.      230.       89.    584.28     321.


*SECNO 2.580

*** GR CARDS REPEATED
    BALD CREEK                     100 YR FLOOD            11/11/81
   MILE         Q       QLOB      QCH      QROB       HV      ITRIAL     TOPWID
   ELEV      CRIWS      ALOB      ACH      AROB       DHV     IDC        BANK ELEV
   DEPTH     WSELK      VLOB      VCH      VROB       HL      EG      LEFT/RIGHT.
   SLOPE       WTN       XNL     XNCH       XNR      OLOSS    CORAR      SSTA
             ELMIN     XLOBL     XLCH     XLOBR      WSDL     WSDR       ENDST      VOL
```

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.58	3690.	867.	2681.	142.	1.47	4	312.	
2606.78	2606.78	406.	237.	91.	0.28	5	2604.20	
8.28	0.0	2.13	11.34	1.55	8.48	2608.25	2605.40	
0.012387	0.042	0.130	0.045	0.130	0.22	-0.00	271.49	
	2598.50	750.	750.	750.	224.	89.	583.53	334.

*SECNO 2.730

3301 HV CHANGED MORE THAN HVINS

2.73	3455.	1817.	1494.	144.	0.56	4	394.	
2614.88	0.0	858.	169.	100.	-0.91	0	2611.40	
8.08	0.0	2.12	8.83	1.44	7.10	2615.45	2611.40	
0.006782	0.042	0.120	0.045	0.140	0.09	-0.00	304.98	
	2606.80	785.	785.	785.	332.	62.	698.91	351.

CCHV= 0.100 CEHV= 0.500
*SECNO 2.730

*** GR CARDS REPEATED

2.73	3455.	1902.	1396.	157.	0.42	0	410.	
2615.27	0.0	983.	179.	120.	-0.15	0	2611.40	
8.47	0.0	1.94	7.81	1.31	0.23	2615.69	2611.40	
0.004925	0.042	0.120	0.045	0.140	0.01	-0.00	293.95	
	2606.80	40.	40.	40.	343.	67.	703.65	352.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2615.14 ,NOT 2615.27
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.00	0.50	78.00	0.0

ELCHU	ELCHD
2606.80	2606.80

*SECNO 2.730

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2615.69 HIGHER THAN COMPUTED ENERGY OF 2615.49
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2664.02	2618.48	0.0	3261.	228.	78.	78.	2610.60

ELTRD
2611.30

2.73	3455.	1905.	1393.	157.	0.41	2	410.	
2615.28	0.0	988.	179.	121.	-0.00	0	2611.40	
8.48	0.0	1.93	7.77	1.30	0.0	2615.69	2611.40	
0.004867	0.042	0.120	0.045	0.140	0.0	-0.00	293.53	
	2606.80	12.	12.	12.	343.	67.	703.83	353.

*SECNO 2.730

*** GR CARDS REPEATED

2.73	3455.	1921.	1385.	149.	0.40	1	412.	
2615.34	0.0	1004.	180.	124.	-0.01	0	2611.40	
8.54	0.0	1.91	7.68	1.20	0.05	2615.74	2611.40	
0.004705	0.042	0.120	0.045	0.150	0.00	-0.00	292.09	
	2606.80	10.	10.	10.	344.	68.	704.44	353.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.800

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.80	3345.	1523.	1692.	130.	1.05	4	362.	
2618.79	2618.79	613.	149.	64.	0.65	9	2616.10	
7.29	0.0	2.48	11.33	2.03	3.28	2619.84	2616.10	
0.023427	0.042	0.160	0.060	0.160	0.52	-0.00	327.64	
	2611.50	370.	370.	370.	309.	53.	689.18	362.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.890

2.89	3190.	348.	2642.	200.	0.99	5	228.	
2626.69	0.0	246.	303.	102.	-0.07	0	2623.80	
8.19	0.0	1.41	8.73	1.96	7.83	2627.68	2623.20	
0.011038	0.043	0.160	0.060	0.160	0.01	-0.00	72.22	
	2618.50	500.	500.	500.	166.	62.	300.16	370.

*SECNO 2.900

*** GR CARDS REPEATED

2.90	3190.	205.	2807.	177.	1.45	4	222.	
2627.36	2627.05	157.	273.	79.	0.46	11	2625.10	
7.56	0.0	1.31	10.28	2.25	0.76	2628.81	2624.50	
0.014757	0.043	0.150	0.055	0.140	0.37	-0.00	76.27	
	2619.80	60.	60.	60.	162.	60.	298.01	371.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	23.00	0.01	120.00	0.0

ELCHU	ELCHD
2619.80	2619.80

CCHV= 0.100 CEHV= 0.500
*SECNO 2.900

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2644.92	2628.81	0.00	1910.	1293.	120.	120.	2625.00

ELTRD
2626.20

2.90	3190.	727.	2170.	293.	0.35	2	239.	
2629.89	0.0	494.	383.	172.	-1.10	0	2625.30	
9.89	0.0	1.47	5.67	1.70	1.43	2630.24	2624.70	
0.001916	0.043	0.100	0.045	0.100	0.0	-0.00	67.11	
	2620.00	12.	12.	12.	171.	67.	305.95	371.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.900

*** GR CARDS REPEATED

2.90	3190.	597.	2309.	284.	0.42	2	239.	
2629.91	0.0	496.	384.	173.	0.06	0	2625.30	
9.91	0.0	1.20	6.02	1.64	0.03	2630.33	2624.70	
0.002156	0.043	0.130	0.045	0.110	0.05	-0.00	67.07	
	2620.00	15.	15.	15.	171.	67.	306.00	372.

*SECNO 2.950

*** GR CARDS REPEATED

BALD CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.95	3110.	352.	2562.	196.	0.89	2	229.	
2630.79	0.0	261.	307.	106.	0.48	0	2627.80	
8.29	0.0	1.35	8.33	1.85	0.98	2631.69	2627.20	
0.008287	0.043	0.150	0.055	0.150	0.38	-0.00	71.92	
	2622.50	260.	260.	260.	167.	62.	300.49	377.

CCHV= 0.100 CEHV= 0.800
*SECNO 3.050

*** GR CARDS REPEATED

3.05	2955.	187.	2614.	154.	1.28	5	219.	
2636.11	2635.59	150.	271.	77.	0.39	12	2633.90	
7.51	0.0	1.24	9.65	2.01	5.40	2637.39	2633.30	
0.015647	0.044	0.160	0.060	0.160	0.31	-0.00	79.24	

```
                                                                          L02
                 2628.60       490.       490.       490.       159.        59.    297.85       383.


   CCHV=   0.100 CEHV=    0.500
   *SECNO 3.200
       BALD CREEK                           100 YR FLOOD            11/11/81
      MILE        Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
      ELEV        CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
      DEPTH       WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
      SLOPE       WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
                  ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

   7185 MINIMUM SPECIFIC ENERGY
   3720 CRITICAL DEPTH ASSUMED
        3.20      2705.      1158.      1443.       104.       0.96         15       251.
     2650.50    2650.50       416.       138.        44.      -0.33         14    2648.60
        5.80        0.0       2.78      10.44       2.35      11.45    2651.45    2646.50
    0.013036      0.044      0.100      0.045      0.130       0.03      -0.00      73.81
                2644.70       800.       800.       800.       216.        35.    324.60       394.


   *SECNO 3.210

   *** GR CARDS REPEATED
       BALD CREEK                           100 YR FLOOD            11/11/81
      MILE        Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
      ELEV        CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
      DEPTH       WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
      SLOPE       WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
                  ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

   7185 MINIMUM SPECIFIC ENERGY
   3720 CRITICAL DEPTH ASSUMED

   3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=      2649.70 ELREA=      2652.90

        3.21      2705.      1202.      1503.         0.       1.08          3       230.
     2651.69    2651.69       414.       138.         0.       0.13          5    2649.80
        5.79        0.0       2.90      10.90        0.0       0.82    2652.77    2647.70
    0.014233      0.044      0.100      0.045      0.130       0.06      -0.00      73.87
                2645.90        60.        60.        60.       216.        15.    304.00       394.


   SPECIAL BRIDGE

   SB     HK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA       SS
        1.25       1.60       3.00        0.0      20.00       0.20      85.00       0.0
      ELCHU      ELCHD
     2645.90    2645.90

   *SECNO 3.210

   *** GR CARDS REPEATED

   3265 DIVIDED FLOW


   3301 HV CHANGED MORE THAN HVINS
```

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2676.85	2652.84	0.07	2062.	652.	85.	85.	2650.20

ELTRD
2650.20

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2650.20 ELREA= 2653.40

3.21	2705.	1425.	1280.	0.	0.48	3	248.	
2652.67	0.0	620.	167.	0.	-0.61	0	2649.80	
6.77	0.0	2.30	7.68	0.0	0.38	2653.15	2647.70	
0.005507	0.044	0.100	0.045	0.130	0.0	-0.00	37.06	
	2645.90	13.	13.	13.	252.	15.	304.00	395.

*SECNO 3.210

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.21	2705.	1108.	1488.	109.	1.02	20	252.	
2652.75	2652.75	426.	140.	45.	0.54	10	2650.80	
5.85	0.0	2.60	10.66	2.40	0.12	2653.76	2648.70	
0.013396	0.044	0.110	0.045	0.130	0.27	-0.00	37.95	
	2646.90	15.	15.	15.	252.	35.	324.79	395.

*SECNO 3.390

3301 HV CHANGED MORE THAN HVINS

3.39	2420.	271.	2148.	1.	1.54	5	147.	
2665.97	2665.93	145.	204.	1.	0.52	5	2663.40	
5.97	0.0	1.87	10.54	0.69	13.49	2667.51	2665.00	
0.014508	0.044	0.130	0.045	0.150	0.26	-0.00	230.46	
	2660.00	970.	970.	970.	122.	25.	377.11	405.

THIS RUN EXECUTED 11/11/81 7:49:20

```
**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
**************************************************

T1      YANCEY CO NC FEMA STUDY                                          1880
T2      100 YR FLOODWAY                                                  1885
T3      BALD CREEK                                                       1890

J1  ICHECK    INQ    NINV    IDIR    STRT  METRIC   HVINS      Q      WSEL     FQ
         0.     6.      0.      0. 0.0          0.    0.0       0. 2486.61    0.0   1895
J2  NPROF   IPLOT   PRFVS    XSECV   XSECH      FN   ALLDC     IBW   CHNIM ITRACE
        15.     0.     -1.      0.      0.     0.0     0.0      0.      0.      0.   1900
```

```
*PROF 2

CCHV=   0.100 CEHV=   0.500
*SECNO .120
    BALD CREEK                          100 YR FLOODWAY      11/11/81
     MILE        Q          QLOB        QCH        QROB       HV         ITRIAL     TOPWID
     ELEV        CRIWS      ALOB        ACH        AROB       DHV        IDC        BANK ELEV
     DEPTH       WSELK      VLOB        VCH        VROB       HL         EG       LEFT/RIGHT
     SLOPE       WTN        XNL         XNCH       XNR        OLOSS      CORAR      SSTA
                 ELMIN      XLOBL       XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

3470 ENCROACHMENT STATIONS=          95.0       345.0  TYPE=      1  TARGET=     250.000
      0.12       5755.          0.       3659.      2096.       0.73          0       250.
   2486.61        0.0           0.        434.       882.       0.50          0     2486.50
     10.21     2485.61        0.19       8.42       2.38       0.0     2487.34     2481.70
  0.004852        0.0        0.120      0.045      0.120       0.0       -0.00       95.00
               2476.40          0.          0.         0.        33.        217.     345.00         0.

*SECNO .120

3470 ENCROACHMENT STATIONS=          95.0       345.0  TYPE=      1  TARGET=     250.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=      2486.90 ELREA=       2483.50

      0.12       5755.          0.       3613.      2142.       1.00          3        227.
   2486.73        0.0           0.        362.       905.       0.27          0     2479.00
     10.33     2485.83        0.0        9.98       2.37       0.26     2487.74     2481.70
  0.003906       0.039       0.110      0.040      0.110       0.14       -0.00      118.00
               2476.40         60.         60.        60.        20.        207.     345.00         2.


SPECIAL BRIDGE

SB     KK          XKOR        COFQ       RDLEN       BWC        BWP       BAREA        SS
      1.25        1.60        3.00        0.0       33.00       0.50      263.00       0.0
    ELCHU       ELCHD
   2475.80     2475.80

*SECNO .120
     3700.    BRIDGE STENCL=      95.00     STENCR=      345.00

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

     EGPRS       EGLWC          H3       QWEIR        QPR       BAREA      TAREA       ELLC
   2498.63     2487.80        0.06       3776.      1989.       263.       263.     2483.90

     ELTRD
   2484.00


3470 ENCROACHMENT STATIONS=          95.0       345.0  TYPE=      1  TARGET=     250.000
      0.12       5755.        177.       3364.      2215.       0.70          3       250.
   2487.45        0.0          97.        390.      1040.      -0.30          0     2479.00
     11.05     2487.00        1.83       8.62       2.13       0.42     2488.15     2481.70
```

```
 0.002641      0.039      0.110      0.040      0.110       0.0      -0.00      95.00
             2476.40        28.        28.        28.       43.      207.     345.00          3.

 *SECNO .120

 3470 ENCROACHMENT STATIONS=       95.0      345.0  TYPE=       1   TARGET=       250.000
      0.12     5755.          2.      3545.      2208.       0.51          2       250.
   2487.70      0.0           4.       499.      1088.      -0.20          0    2486.50
     11.30   2487.19        0.58       7.10       2.03       0.04    2488.21    2481.70
  0.002266     0.039       0.110      0.040      0.110       0.02      -0.00      95.00
             2476.40         15.        15.        15.        33.       217.    345.00          3.

 *SECNO .260

 *** GR CARDS REPEATED

 3301 HV CHANGED MORE THAN HVINS

    BALD CREEK                             100 YR FLOODWAY        11/11/81
   MILE          Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV         CRIWS       ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH        WSELK       VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
   SLOPE        WTN         XNL        XNCH       XNR        OLOSS      CORAR      SSTA
                ELMIN       XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST         VOL

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=       95.0      345.0  TYPE=       1   TARGET=       250.000
      0.26     5720.          0.      4144.      1576.       1.74         20       243.
   2490.70   2490.70          0.       337.       560.       1.23         20    2492.30
      8.50   2490.53         0.0      12.30       2.82       2.48    2492.43    2487.50
  0.010368     0.040       0.110      0.040      0.110       0.61      -0.00     102.27
             2482.20        590.       590.       590.        25.       217.    345.00         20.

 *SECNO .390

 3301 HV CHANGED MORE THAN HVINS

 3470 ENCROACHMENT STATIONS=      410.0      660.0  TYPE=       1   TARGET=       250.000
      0.39     5690.       2409.      3257.        24.       0.73          3       250.
   2494.91      0.0        1079.       369.        20.      -1.01          0    2489.70
     10.61   2494.09        2.23       8.83       1.21       3.10    2495.64    2489.30
  0.003121     0.040       0.110      0.040      0.120       0.10      -0.00     410.00
             2484.30        595.       595.       595.       227.        23.    660.00         36.

 *SECNO .390

 *** GR CARDS REPEATED

 3470 ENCROACHMENT STATIONS=      410.0      660.0  TYPE=       1   TARGET=       250.000
      0.39     5690.       2441.      3225.        24.       0.68          2       250.
   2495.08      0.0        1114.       375.        20.      -0.04          0    2489.70
     10.78   2494.23        2.19       8.59       1.18       0.12    2495.76    2489.30
```

```
 0.002888      0.040      0.110      0.040      0.120       0.00      -0.00     410.00
               2484.30       40.        40.        40.       227.       23.     660.00        38.

 SPECIAL BRIDGE

 5227 DOWNSTREAM ELEV IS   2494.77 ,NOT   2495.08
 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

 SB     HK         XKOR       COFQ       RDLEN      BWC        BWP      BAREA      SS
       1.25       1.60       3.00         0.0     25.00       0.50     130.00     0.0
     ELCHU      ELCHD
   2484.30    2484.30

 *SECNO .390
       3700.   BRIDGE STENCL=    410.00    STENCR=    660.00

 *** GR CARDS REPEATED
 6870 D.S. ENERGY OF 2495.76 HIGHER THAN COMPUTED ENERGY OF 2495.50
 PRESSURE AND WEIR FLOW

      EGPRS      EGLWC         H3      QWEIR       QPR      BAREA      TAREA       ELLC
    2542.68    2498.78        0.0       5155.      536.       130.       130.    2489.60

      ELTRD
    2489.70


 3470 ENCROACHMENT STATIONS=     410.0     660.0  TYPE=      1  TARGET=      250.000
       0.39       5690.      2442.      3224.       24.       0.68          2       250.
    2495.08        0.0      1115.       376.       20.      -0.00          0    2489.70
      10.78    2494.23        2.19       8.58      1.18        0.0    2495.76    2489.30
  0.002878      0.040      0.110      0.040      0.120        0.0      -0.00     410.00
               2484.30        12.        12.        12.       227.       23.     660.00        38.

 CCHV=   0.100 CEHV=   0.800
 *SECNO .400

 *** GR CARDS REPEATED

 3301 HV CHANGED MORE THAN HVINS


 3470 ENCROACHMENT STATIONS=     410.0     660.0  TYPE=      1  TARGET=      250.000
       0.40       5690.      2054.      3610.       26.       1.36          2       250.
    2495.16        0.0       778.       312.       14.       0.68          0    2491.40
       9.16    2494.36        2.64      11.57      1.91       0.21    2496.51    2491.00
  0.006698      0.040      0.110      0.040      0.100       0.54      -0.00     410.00
               2486.00         50.        50.        50.       227.       23.     660.00        39.


 CCHV=   0.100 CEHV=   0.500
 *SECNO .790
     BALD CREEK                        100 YR FLOODWAY      11/11/81
    MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
    ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
    DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
```

E03

SLOPE	WTN / ELMIN	XNL / XLOBL	XNCH / XLCH	XNR / XLOBR	OLOSS / WSDL	CORAR / WSDR	SSTA / ENDST	VOL
3470 ENCROACHMENT STATIONS=			145.0	395.0 TYPE= 1		TARGET=	250.000	
0.79	5400.	1.	3157.	2243.	1.32	13	216.	
2510.22	2509.70	1.	268.	704.	-0.03	10	2509.70	
9.12	2509.93	0.51	11.77	3.19	15.03	2511.54	2506.70	
0.008738	0.040	0.110	0.040	0.110	0.00	-0.00	179.20	
	2501.10	1980.	1980.	1980.	24.	191.	395.00	87.

CCHV= 0.100 CEHV= 0.800
*SECNO .790

3470 ENCROACHMENT STATIONS= 145.0 395.0 TYPE= 1 TARGET= 250.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2516.70 ELREA= 2517.00

0.79	5400.	0.	5400.	0.	1.57	2	82.	
2510.69	0.0	0.	538.	0.	0.24	0	2513.30	
9.49	2510.32	0.0	10.04	0.0	0.52	2512.25	2506.60	
0.004945	0.040	0.110	0.035	0.110	0.19	-0.00	148.00	
	2501.20	80.	80.	80.	41.	41.	230.00	88.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	64.00	0.50	838.00	0.0

ELCHU	ELCHD
2501.20	2501.20

CCHV= 0.100 CEHV= 0.500
*SECNO .790
3700. BRIDGE STENCL= 145.00 STENCR= 395.00

*** GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.= 2510.65 BRIDGE VELOCITY=, 9.00
CALCULATED CHANNEL AREA=, 600.

EGPRS	EGLWC	K3	QWEIR	QPR	BAREA	TAREA	ELLC
0.0	2512.29	0.07	0.	5400.	838.	838.	2514.40

ELTRD
2517.20

3470 ENCROACHMENT STATIONS= 145.0 395.0 TYPE= 1 TARGET= 250.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2517.20 ELREA= 2517.50

0.79	5400.	0.	5400.	0.	1.53	0	82.	
2510.76	0.0	0.	544.	0.	-0.03	0	2513.30	
9.56	2510.41	0.0	9.93	0.0	0.04	2512.29	2506.60	
0.004778	0.040	0.110	0.035	0.110	0.0	0.0	148.00	
	2501.20	20.	20.	20.	41.	41.	230.00	88.

```
CCHV=   0.100 CEHV=   0.800
*SECNO .800
   BALD CREEK                    100 YR FLOODWAY      11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     145.0     395.0  TYPE=     1  TARGET=     250.000
     0.80     5400.        0.     3245.     2155.      1.68          3       211.
  2512.08  2512.08         0.      247.      611.      0.15         10    2512.10
     8.58  2511.84        0.0     13.13      3.53      0.31    2513.77    2509.10
 0.015316     0.040      0.100    0.045     0.120      0.12      -0.00     184.02
             2503.50       40.      40.       40.       19.       191.    395.00       89.


*SECNO 1.170

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     505.0     755.0  TYPE=     1  TARGET=     250.000
     1.17     5120.      1945.     3158.      17.      0.76          6       250.
  2527.90      0.0        800.      364.      14.     -0.93          0    2523.80
     9.60  2526.92         2.43     8.68      1.23    14.80    2528.66    2524.30
 0.004189     0.040      0.100    0.040     0.120      0.09      -0.00     505.00
             2518.30      2015.     2015.     2015.      221.       29.    755.00       136.


*SECNO 1.490

3301 HV CHANGED MORE THAN HVINS

   BALD CREEK                    100 YR FLOODWAY      11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     105.0     195.0  TYPE=     1  TARGET=      90.000
     1.49     4885.       506.     4295.      84.      2.95          3        90.
  2541.98  2541.98         143.      293.      35.      2.19         11    2537.70
     8.98  2541.86         3.54     14.64      2.41    10.81    2544.93    2538.90
 0.011463     0.040      0.100    0.040     0.120      1.75      -0.00     105.00
             2533.00      1680.     1680.     1680.       60.       30.    195.00       168.


*SECNO 1.570

3301 HV CHANGED MORE THAN HVINS
```

```
3470 ENCROACHMENT STATIONS=      105.0     195.0  TYPE=      1  TARGET=      90.000
     1.57      4820.      656.     4054.      110.      1.94         2         90.
  2548.04       0.0       185.      335.       47.     -1.00         0    2542.70
    10.04   2547.48       3.54     12.11      2.37      4.96   2549.99    2543.90
 0.008329     0.040      0.100     0.045     0.120      0.10     -0.00     105.00
             2538.00       510.      510.      510.       60.        30.    195.00      174.

*SECNO 1.580

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS=      105.0     195.0  TYPE=      1  TARGET=      90.000
     1.58      4820.      708.     3993.      119.      1.60         2         90.
  2548.71       0.0       212.      361.       54.     -0.34         0    2542.70
    10.71   2548.22       3.34     11.07      2.21      0.29   2550.31    2543.90
 0.006294     0.040      0.100     0.045     0.120      0.03     -0.00     105.00
             2538.00        40.       40.       40.       60.        30.    195.00      174.


SPECIAL BRIDGE

SB      HK        XKOR      COFQ     RDLEN      BWC       BWP     BAREA       SS
      1.25        1.60      3.00-      0.0     19.00      0.01    120.00      0.0
    ELCHU     ELCHD
  2537.50   2537.50

*SECNO 1.580
     3700.   BRIDGE STENCL=    105.00    STENCR=    195.00

*** GR CARDS REPEATED
 PRESS FLOW BECAUSE EGLWC OF   2550.31  EXCEEDS 1.5 DEPTH
PRESSURE AND WEIR FLOW

     EGPRS      EGLWC         H3      QWEIR       QPR     BAREA     TAREA      ELLC
   2588.79    2550.31       0.00     3831.      998.      120.      120.   2543.80

     ELTRD
   2543.40


3470 ENCROACHMENT STATIONS=      105.0     195.0  TYPE=      1  TARGET=      90.000
     1.58      4820.      722.     3976.      121.      1.52         3         90.
  2548.91       0.0       220.      369.       56.     -0.09         0    2542.70
    10.91   2548.23       3.28     10.78      2.16      0.12   2550.43    2543.90
 0.005801     0.040      0.100     0.045     0.120       0.0     -0.00     105.00
             2538.00        12.       12.       12.       60.        30.    195.00      175.


CCHV=   0.100 CEHV=   0.800
*SECNO 1.580

3470 ENCROACHMENT STATIONS=      105.0     195.0  TYPE=      1  TARGET=      90.000
     1.58      4820.      619.     4076.      125.      1.61         2         90.
  2548.95       0.0       221.      370.       57.      0.09         0    2542.70
    10.95   2548.27       2.80     11.01      2.21      0.06   2550.56    2543.90
 0.006024     0.040      0.120     0.045     0.120      0.08     -0.00     105.00
```

```
         2538.00      10.      10.      10.      60.      30.   195.00     175.

*SECNO 1.750

3301 HV CHANGED MORE THAN HVINS

    BALD CREEK                         100 YR FLOODWAY       11/11/81
   MILE      Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
   ELEV      CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
   DEPTH     WSELK     VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
   SLOPE     WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
             ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST      VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     110.0     180.0  TYPE=     1  TARGET=      70.000
      1.75     4690.      255.     4239.      196.      3.33         5      70.
   2560.60   2560.60       71.      276.       61.      1.72        11   2556.00
     10.20   2560.62      3.61     15.37      3.23      8.00   2563.94   2556.60
  0.015052     0.041     0.120     0.045     0.120      1.38     -0.00    110.00
             2550.40      890.      890.      890.       37.       33.    180.00      186.

CCHV=   0.100 CEHV=   0.500
*SECNO 1.760

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS=     110.0     180.0  TYPE=     1  TARGET=      70.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2561.70 ELREA=     2559.90

      1.76     4690.        0.     4463.      227.      3.42         4      50.
   2561.13   2560.76        0.      294.       69.      0.09         5   2556.00
     10.73   2561.29       0.0     15.19      3.28      0.57   2564.55   2556.60
  0.013524     0.041     0.120     0.045     0.120      0.04     -0.00    130.00
             2550.40       40.       40.       40.       17.       33.    180.00      186.


SPECIAL BRIDGE

SB      WK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA      SS
      1.25      1.60      3.00       0.0     31.00      0.50    345.00       0.0
    ELCHU     ELCHD
   2550.00   2550.00

*SECNO 1.760
     3700.   BRIDGE STENCL=    110.00    STENCR=    180.00

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2564.55 HIGHER THAN COMPUTED ENERGY OF 2564.31

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

    EGPRS     EGLWC        H3     QWEIR       QPR     BAREA     TAREA      ELLC
```

```
  2564.31   2563.74     0.44     786.     3904.      345.      345.   2561.30

    ELTRD.
  2560.40


 3470 ENCROACHMENT STATIONS=     110.0     180.0  TYPE=      1  TARGET=      70.000
      1.76     4690.      347.     4094.      250.     1.93         3         70.
   2562.62      0.0       111.      345.       93.    -1.49         0    2556.00
     12.22  2562.20        3.12     11.87      2.68     0.0    2564.55    2556.60
  0.006673     0.041      0.120     0.045     0.120     0.0      -0.00     110.00
              2550.40       12.       12.       12.      37.       33.    180.00      186.


 CCHV=   0.100 CEHV=   0.800
 *SECNO 1.760

 3470 ENCROACHMENT STATIONS=     110.0     180.0  TYPE=      1  TARGET=      70.000
      1.76     4690.      323.     4115.      252.     1.94         2         70.
   2562.69      0.0       112.      346.       94.     0.01         0    2556.00
     12.29  2562.26        2.88     11.88      2.68     0.07   2564.62    2556.60
  0.006639     0.041      0.130     0.045     0.120     0.01     -0.00     110.00
              2550.40       10.       10.       10.      37.       33.    180.00      186.


 *SECNO 1.990

 3301 HV CHANGED MORE THAN HVINS


 3470 ENCROACHMENT STATIONS=     330.0     505.0  TYPE=      1  TARGET=     175.000
      1.99     4515.     1214.     3247.       54.     1.33         3         172.
   2571.25      0.0       453.      301.       45.    -0.61         0    2566.10
      9.55  2570.29        2.68     10.79      1.20     7.90   2572.58    2568.60
  0.007600     0.041      0.130     0.045     0.130     0.06     -0.00     330.00
              2561.70     1115.     1115.     1115.      119.      53.    501.86      203.


 CCHV=   0.100 CEHV=   0.800
 *SECNO 2.000

 3301 HV CHANGED MORE THAN HVINS

     BALD CREEK                    100 YR FLOODWAY      11/11/81
    MILE       Q          QLOB      QCH       QROB       HV        ITRIAL     TOPWID
    ELEV       CRIWS      ALOB      ACH       AROB       DHV       IDC       BANK ELEV
    DEPTH      WSELK      VLOB      VCH       VROB       HL        EG      LEFT/RIGHT
    SLOPE      WTN        XNL       XNCH      XNR        OLOSS     CORAR     SSTA
               ELMIN      XLOBL     XLCH      XLOBR      WSDL      WSDR      ENDST      VOL


 3470 ENCROACHMENT STATIONS=     330.0     505.0  TYPE=      1  TARGET=     175.000
      2.00     4515.      474.     4037.        4.     0.62         3         172.
   2572.32      0.0       300.      608.        7.    -0.71         0    2567.90
      9.12  2571.69        1.58      6.64      0.60     0.28   2572.94    2570.50
  0.003222     0.041      0.130     0.045     0.130     0.07     -0.00     330.00
              2563.20       60.       60.       60.      120.      52.    502.29      205.
```

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	30.00	1.10	400.00	4.40

ELCHU	ELCHD
2563.70	2563.70

CCHV= 0.100 CEHV= 0.500
*SECNO 2.000
3700. BRIDGE STENCL= 330.00 STENCR= 505.00

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2575.49	2572.97	0.03	1129.	3377.	400.	400.	2570.50

ELTRD
2570.50

3470 ENCROACHMENT STATIONS= 330.0 505.0 TYPE= 1 TARGET= 175.000

2.00	4515.	551.	3950.	13.	0.40	2	175.	
2573.69	0.0	403.	731.	19.	-0.22	0	2567.90	
10.49	2572.66	1.37	5.40	0.68	1.15	2574.09	2570.50	
0.001665	0.041	0.130	0.045	0.130	0.0	-0.00	330.00	
	2563.20	26.	26.	26.	120.	55.	505.00	205.

*SECNO 2.000

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS= 330.0 505.0 TYPE= 1 TARGET= 175.000

2.00	4515.	577.	3924.	14.	0.39	0	175.	
2573.73	0.0	405.	734.	20.	-0.01	0	2567.90	
10.53	2572.71	1.43	5.34	0.71	0.02	2574.12	2570.50	
0.001279	0.041	0.110	0.040	0.110	0.00	-0.00	330.00	
	2563.20	15.	15.	15.	120.	55.	505.00	206.

*SECNO 2.180

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 100 YR FLOODWAY 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 275.0 375.0 TYPE= 1 TARGET= 100.000

2.18	4300.	532.	3366.	402.	2.70	20	100.

2584.13	2584.13	157.	227.	130.	2.31	8	2580.30	
10.33	2583.61	3.40	14.80	3.10	2.65	2586.83	2580.10	
0.011403	0.041	0.110	0.040	0.120	1.15	-0.00	275.00	
	2573.80	945.	945.	945.	55.	45.	375.00	224.

*SECNO 2.190

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 275.0 375.0 TYPE= 1 TARGET= 100.000

2.19	4300.	654.	3173.	473.	1.65	4	100.	
2585.60	0.0	217.	267.	177.	-1.05	0	2580.30	
11.80	2584.81	3.02	11.89	2.68	0.32	2587.25	2580.10	
0.005934	0.041	0.110	0.040	0.120	0.10	-0.00	275.00	
	2573.80	40.	40.	40.	55.	45.	375.00	224.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	14.00	0.20	80.00	0.0

ELCHU	ELCHD
2573.80	2573.80

*SECNO 2.190
3700. BRIDGE STENCL= 275.00 STENCR= 375.00

*** GR CARDS REPEATED

6870 D.S. ENERGY OF 2587.25 HIGHER THAN COMPUTED ENERGY OF 2586.67

BALD CREEK 100 YR FLOODWAY 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST

VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2657.38	2587.37	0.12	3776.	524.	80.	80.	2579.60

ELTRD
2580.00

3470 ENCROACHMENT STATIONS= 275.0 375.0 TYPE= 1 TARGET= 100.000

2.19	4300.	656.	3171.	474.	1.64	3	100.	
2585.61	0.0	218.	268.	177.	-0.01	0	2580.30	
11.81	2584.81	3.01	11.85	2.67	0.0	2587.25	2580.10	
0.005884	0.041	0.110	0.040	0.120	0.0	-0.00	275.00	
	2573.80	12.	12.	12.	55.	45.	375.00	225.

*SECNO 2.190

```
*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS=     275.0     375.0  TYPE=      1  TARGET=     100.000
      2.19      4300.       738.      2987.       575.      1.27         3       100.
   2586.07       0.0        236.       280.       192.     -0.37         0   2580.30
     12.27    2585.16       3.12     10.67       3.00      0.06   2587.35   2580.10
  0.005686       0.041     0.110     0.045     0.110      0.04     -0.00    275.00
              2573.80        10.       10.        10.       55.       45.    375.00       225.

*SECNO 2.270

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     250.0     350.0  TYPE=      1  TARGET=     100.000
      2.27      4175.       288.      3473.       413.      2.44         4       100.
   2588.31    2588.21        99.       254.       112.      1.17        19   2585.40
      8.51    2588.25       2.90     13.66       3.68      2.82   2590.75   2584.30
  0.013423       0.041     0.110     0.045     0.110      0.58     -0.00    250.00
              2579.80        340.      340.       340.       55.       45.    350.00       229.


*SECNO 2.270

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     250.0     350.0  TYPE=      1  TARGET=     100.000
      2.27      4175.       404.      3300.       471.      1.47         4       100.
   2589.74       0.0        152.       304.       152.     -0.97         0   2585.40
      9.94    2589.36       2.65     10.84       3.09      0.37   2591.21   2584.30
  0.006663       0.041     0.110     0.045     0.110      0.10     -0.00    250.00
              2579.80         40.       40.        40.       55.       45.    350.00       230.


SPECIAL BRIDGE

SB     HK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA      SS
       1.25      1.60      3.00       0.0      15.00      0.01      75.00     0.0
    ELCHU     ELCHD
  2580.00   2580.00

*SECNO 2.270
      3700.   BRIDGE STENCL=    250.00    STENCR=    350.00

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

     EGPRS     EGLWC        H3      QWEIR       QPR      BAREA      TAREA      ELLC
   2666.73   2591.22      0.01      3593.       616.       75.        75.    2585.00

     ELTRD
   2585.00
```

```
3470 ENCROACHMENT STATIONS=     250.0     350.0  TYPE=      1  TARGET=     100.000
      2.27      4175.      428.      3265.      482.      1.31         3      100.
   2590.11       0.0       166.       317.      163.     -0.16         0     2585.40
     10.31   2589.36       2.57      10.28       2.96      0.21   2591.42    2584.30
  0.005665      0.041      0.110      0.045      0.110      0.0      -0.00     250.00
                2579.80      12.        12.        12.       55.       45.    350.00      230.


*SECNO 2.270

*** GR CARDS REPEATED
    BALD CREEK                    100 YR FLOODWAY      11/11/81
    MILE        Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
    ELEV        CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
    DEPTH       WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
    SLOPE       WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
                ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

3470 ENCROACHMENT STATIONS=     250.0     350.0  TYPE=      1  TARGET=     100.000
      2.27      4175.      367.      3262.      546.      1.57         2      100.
   2590.05       0.0       138.       291.      141.      0.26         0     2586.10
      9.55   2589.22       2.66      11.23       3.86      0.07   2591.61    2585.00
  0.007594      0.041      0.110      0.045      0.090      0.13      -0.00     250.00
                2580.50      10.        10.        10.       55.       45.    350.00      230.


*SECNO 2.430

3470 ENCROACHMENT STATIONS=     400.0     550.0  TYPE=      1  TARGET=     150.000
      2.43      3925.      751.      2973.      200.      1.30         3      150.
   2596.00       0.0       285.       285.       91.     -0.27         0     2592.20
      9.50   2595.24       2.64      10.43       2.20      5.66   2597.30    2593.40
  0.008165      0.041      0.120      0.045      0.110      0.03      -0.00     400.00
                2586.50      720.       720.       720.       95.       55.    550.00      240.


*SECNO 2.430

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     400.0     550.0  TYPE=      1  TARGET=     150.000
      2.43      3925.     1023.      2576.      325.      0.68         3      150.
   2597.02       0.0       361.       326.      127.     -0.62         0     2592.20
     10.52   2596.33       2.83       7.91       2.57      0.33   2597.69    2593.40
  0.003933      0.041      0.090      0.045      0.080      0.06      -0.00     400.00
                2586.50      60.        60.        60.       95.       55.    550.00      241.


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2596.57 ,NOT   2597.02
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK         XKOR       COFQ      RDLEN       BWC        BWP      BAREA       SS
```

```
     1.25      1.60      3.00       0.0      18.00       0.30    110.00       0.0
   ELCHU     ELCHD
  2586.30   2586.30

*SECNO 2.430
     3700.  BRIDGE STENCL=    400.00    STENCR=    550.00

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

     EGPRS     EGLWC        H3     QWEIR       QPR     BAREA     TAREA      ELLC
   2628.65   2600.17       0.0      3152.      770.      110.      110.   2592.50

     ELTRD
   2593.50


3470 ENCROACHMENT STATIONS=     400.0     550.0  TYPE=      1  TARGET=     150.000
      2.43      3925.     1074.      2488.      363.      0.52         2      150.
   2597.71       0.0      414.       354.      151.     -0.15         0   2592.20
     11.21   2596.88      2.59       7.03      2.41      0.54   2598.23   2593.40
  0.002785     0.041     0.090      0.045     0.080       0.0     -0.00    400.00
              2586.50      12.        12.       12.        95.       55.    550.00       242.

CCHV=   0.100 CEHV=   0.800
*SECNO 2.440

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

     BALD CREEK                    100 YR FLOODWAY      11/11/81
    MILE       Q          QLOB      QCH        QROB       HV         ITRIAL     TOPWID
    ELEV       CRIWS      ALOB      ACH        AROB       DHV        IDC        BANK ELEV
    DEPTH      WSELK      VLOB      VCH        VROB       HL         EG       LEFT/RIGHT
    SLOPE      WTN        XNL       XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL     XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     400.0     550.0  TYPE=      1  TARGET=     150.000
      2.44      3925.      679.      3069.      177.      1.88         2      150.
   2597.89   2597.89      217.       249.       59.      1.36        19   2595.00
      8.59   2597.77      3.13      12.34      2.99      0.08   2599.77   2596.20
  0.013713     0.041     0.110      0.045     0.080      1.09     -0.00    400.00
              2589.30      15.        15.       15.        95.       55.    550.00       242.


*SECNO 2.580

*** GR CARDS REPEATED
     BALD CREEK                    100 YR FLOODWAY      11/11/81
    MILE       Q          QLOB      QCH        QROB       HV         ITRIAL     TOPWID
    ELEV       CRIWS      ALOB      ACH        AROB       DHV        IDC        BANK ELEV
    DEPTH      WSELK      VLOB      VCH        VROB       HL         EG       LEFT/RIGHT
    SLOPE      WTN        XNL       XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL     XLCH       XLOBR      WSDL       WSDR       ENDST       VOL
```

```
3470 ENCROACHMENT STATIONS=     400.0     550.0  TYPE=     1  TARGET=     150.000
      2.58     3690.      600.     2963.      126.      1.64         4      150.
   2607.38      0.0       238.      260.       69.     -0.25         0   2604.20
      8.88  2606.78       2.52     11.39      1.82      9.22   2609.01   2605.40
  0.011004    0.042      0.130     0.045     0.130      0.02     -0.00    400.00
            2598.50       750.      750.      750.        95.       55.    550.00      251.

*SECNO 2.730

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     510.0     660.0  TYPE=     1  TARGET=     150.000
      2.73     3455.     1384.     1971.      100.      1.04         3      150.
   2615.60      0.0       479.      187.       46.     -0.60         0   2611.40
      8.80  2614.88       2.89     10.53      2.17      7.56   2616.63   2611.40
  0.008434    0.042      0.120     0.045     0.140      0.06     -0.00    510.00
            2606.80       785.      785.      785.       127.       23.    660.00      263.

CCHV=   0.100 CEHV=   0.500
*SECNO 2.730

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS=     510.0     660.0  TYPE=     1  TARGET=     150.000
      2.73     3455.     1448.     1903.      104.      0.82         2      150.
   2616.12      0.0       539.      200.       52.     -0.22         0   2611.40
      9.32  2615.27       2.69     9.50       2.00      0.29   2616.94   2611.40
  0.006272    0.042      0.120     0.045     0.140      0.02     -0.00    510.00
            2606.80        40.       40.       40.       127.       23.    660.00      263.


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2615.14 ,NOT   2616.12
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA       SS
      1.25       1.60      3.00       0.0      21.00      0.50      78.00      0.0
    ELCHU     ELCHD
  2606.80   2606.80

*SECNO 2.730
     3700.   BRIDGE STENCL=    510.00    STENCR=    660.00

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2616.94 HIGHER THAN COMPUTED ENERGY OF 2616.56
PRESSURE AND WEIR FLOW

     EGPRS      EGLWC        W3      QWEIR       QPR      BAREA      TAREA       ELLC
   2664.87   2618.88       0.0       3111.      327.        78.        78.   2610.60

     ELTRD
   2611.30
```

```
3470 ENCROACHMENT STATIONS=      510.0     660.0  TYPE=      1  TARGET=     150.000
      2.73      3455.      1448.      1903.       104.      0.82         3       150.
   2616.12       0.0        538.       200.        52.      0.00         0    2611.40
      9.32   2615.28        2.69       9.51       2.00       0.0   2616.94    2611.40
  0.006279     0.042       0.120      0.045      0.140       0.0     -0.00     510.00
              2606.80         12.        12.        12.       127.       23.     660.00      264.

*SECNO 2.730

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS=      510.0     660.0  TYPE=      1  TARGET=     150.000
      2.73      3455.      1461.      1897.        97.      0.80         2       150.
   2616.21       0.0        549.       202.        53.     -0.03         0    2611.40
      9.41   2615.34        2.66       9.37       1.85      0.06   2617.01    2611.40
  0.006012     0.042       0.120      0.045      0.150      0.00     -0.00     510.00
              2606.80         10.        10.        10.       127.       23.     660.00      264.

CCHV=   0.100 CEHV=   0.800
*SECNO 2.800

*** GR CARDS REPEATED
    BALD CREEK                    100 YR FLOODWAY      11/11/81
    MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
    ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC       BANK ELEV
    DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
    SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

3470 ENCROACHMENT STATIONS=      510.0     660.0  TYPE=      1  TARGET=     150.000
      2.80      3345.      1257.      1981.       107.      1.25         2       150.
   2619.76       0.0        417.       174.        40.      0.46         0    2616.10
      8.26   2618.79        3.01      11.41       2.68      3.64   2621.01    2616.10
  0.019426     0.042       0.160      0.060      0.160      0.37     -0.00     510.00
              2611.50        370.       370.       370.       127.       23.     660.00      270.

CCHV=   0.100 CEHV=   0.800
*SECNO 2.890

3470 ENCROACHMENT STATIONS=      205.0     275.0  TYPE=      1  TARGET=      70.000
      2.89      3190.        60.      3029.       101.      1.29         4        70.
   2627.15       0.0         33.       324.        49.      0.03         0    2623.80
      8.65   2626.69        1.83       9.34       2.05      7.40   2628.44    2623.20
  0.011522     0.043       0.160      0.060      0.160      0.03     -0.00     205.00
              2618.50        500.       500.       500.        34.       36.     275.00      276.

*SECNO 2.900

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS=      205.0     275.0  TYPE=      1  TARGET=      70.000
      2.90      3190.        50.      3045.        95.      1.58         2        70.
   2627.84       0.0         27.       296.        41.      0.29         0    2625.10
```

```
     8.04   2627.36     1.89    10.31     2.30     0.74  2629.42  2624.50
 0.013366     0.043    0.150    0.055    0.140     0.23    -0.00   205.00
          2619.80       60.      60.      60.      34.      36.   275.00      276.


 SPECIAL BRIDGE

 SB     HK       XKOR      COFQ      RDLEN      BWC       BWP      BAREA      SS
       1.25      1.60      3.00        0.0    23.00      0.01     120.00     0.0
     ELCHU     ELCHD
   2619.80   2619.80

 CCHV=   0.100 CEHV=   0.500
 *SECNO 2.900
      3700.  BRIDGE STENCL=    205.00    STENCR=    275.00

 *** GR CARDS REPEATED

 3301 HV CHANGED MORE THAN HVINS

 PRESSURE AND WEIR FLOW

      EGPRS     EGLWC       H3     QWEIR      QPR     BAREA     TAREA      ELLC
    2645.39   2629.42     0.00      1835.     1357.      120.      120.   2625.00

      ELTRD
    2626.20


 3470 ENCROACHMENT STATIONS=     205.0     275.0  TYPE=     1  TARGET=      70.000
       2.90      3190.       89.      2960.      141.      0.80         3       70.
    2630.21       0.0       48.       398.       69.     -0.77         0  2625.30
      10.21   2629.89      1.84       7.44      2.03      1.60   2631.01   2624.70
   0.003142     0.043     0.100      0.045     0.100       0.0    -0.00    205.00
            2620.00        12.       12.       12.       34.       36.   275.00      276.


 CCHV=   0.100 CEHV=   0.800
 *SECNO 2.900

 *** GR CARDS REPEATED

 3470 ENCROACHMENT STATIONS=     205.0     275.0  TYPE=     1  TARGET=      70.000
       2.90      3190.       69.      2991.      130.      0.82         2       70.
    2630.26       0.0       49.       400.       70.      0.02         0  2625.30
      10.26   2629.91      1.42       7.48      1.86      0.05   2631.07   2624.70
   0.003153     0.043     0.130      0.045     0.110      0.01    -0.00    205.00
            2620.00        15.       15.       15.       34.       36.   275.00      277.


 *SECNO 2.950

 *** GR CARDS REPEATED
     BALD CREEK                  100 YR FLOODWAY      11/11/81
    MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
    ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
    DEPTH      WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
    SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
```

```
                ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST      VOL

3470 ENCROACHMENT STATIONS=     205.0     275.0  TYPE=     1  TARGET=     70.000
      2.95     3110.       60.     2950.      100.      1.13         2       70.
   2631.43        0.       35.      337.       53.      0.31         0  2627.80
      8.93  2630.79      1.70      8.74      1.90      1.23   2632.56  2627.20
  0.008067    0.043     0.150     0.055     0.150      0.25     -0.00   205.00
              2622.50      260.      260.      260.       34.       36.  275.00      279.

 CCHV=   0.100 CEHV=   0.800
 *SECNO 3.050

 *** GR CARDS REPEATED

 3470 ENCROACHMENT STATIONS=     205.0     275.0  TYPE=     1  TARGET=     70.000
      3.05     2955.       46.     2827.       82.      1.41         3       70.
   2636.53        0.       25.      290.       40.      0.28         0  2633.90
      7.93  2636.11      1.80      9.74      2.06      5.16   2637.94  2633.30
  0.014553    0.044     0.160     0.060     0.160      0.23     -0.00   205.00
              2628.60      490.      490.      490.       34.       36.  275.00      284.


 CCHV=   0.100 CEHV=   0.500
 *SECNO 3.200
     BALD CREEK                    100 YR FLOODWAY      11/11/81
    MILE       Q         QLOB      QCH       QROB      HV        ITRIAL     TOPWID
    ELEV       CRIWS     ALOB      ACH       AROB      DHV       IDC        BANK ELEV
    DEPTH      WSELK     VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
    SLOPE      WTN       XNL       XNCH      XNR       OLOSS     CORAR      SSTA
               ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR       ENDST      VOL

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     175.0     305.0  TYPE=     1  TARGET=     130.000
      3.20     2705.      883.     1816.       5.      1.51        16      130.
   2651.04  2651.04      264.      154.       4.      0.10        16  2648.60
      6.34  2650.50      3.35     11.81      1.21     11.60   2652.55  2646.50
  0.014448    0.044     0.100     0.045     0.130      0.05     -0.00   175.00
              2644.70      800.      800.      800.       115.      15.  305.00      291.

 *SECNO 3.210

 *** GR CARDS REPEATED
     BALD CREEK                    100 YR FLOODWAY      11/11/81
    MILE       Q         QLOB      QCH       QROB      HV        ITRIAL     TOPWID
    ELEV       CRIWS     ALOB      ACH       AROB      DHV       IDC        BANK ELEV
    DEPTH      WSELK     VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
    SLOPE      WTN       XNL       XNCH      XNR       OLOSS     CORAR      SSTA
               ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR       ENDST      VOL

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     175.0     305.0  TYPE=     1  TARGET=     130.000

 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2649.70 ELREA=     2652.90
```

```
     3.21     2705.      878.      1827.        0.      1.55          2      129.
  2652.20  2652.20       260.       153.        0.      0.04          5   2649.80
     6.30  2651.69       3.37      11.95       0.0      0.88    2653.76   2647.70
 0.014923    0.044      0.100      0.045     0.130      0.02      -0.00    175.00
           2645.90        60.        60.       60.      115.        15.    304.00      292.


SPECIAL BRIDGE

SB     HK      XKOR      COFQ     RDLEN      BWC       BWP      BAREA       SS
     1.25      1.60      3.00       0.0     20.00      0.20     85.00       0.0
   ELCHU     ELCHD
  2645.90  2645.90

*SECNO 3.210
     3700.  BRIDGE STENCL=    175.00    STENCR=    305.00

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

    EGPRS    EGLWC        H3     QWEIR       QPR     BAREA      TAREA      ELLC
  2677.36  2653.88      0.12     1930.      781.       85.        85.   2650.20

    ELTRD
  2650.20


3470 ENCROACHMENT STATIONS=     175.0     305.0  TYPE=      1  TARGET=     130.000
     3.21    2705.      1072.      1629.        4.      0.71          3      130.
  2653.59      0.0       399.       193.        6.     -0.85          0   2649.80
     7.69  2652.67       2.68       8.43      0.76      0.54    2654.30   2647.70
 0.005439    0.044      0.100      0.045     0.130       0.0      -0.00    175.00
           2645.90        13.        13.       13.      115.        15.    305.00      292.

*SECNO 3.210

3301 HV CHANGED MORE THAN HVINS

    BALD CREEK                    100 YR FLOODWAY      11/11/81
   MILE      Q         QLOB       QCH       QROB       HV        ITRIAL     TOPWID
   ELEV      CRIWS     ALOB       ACH       AROB       DHV       IDC        BANK ELEV
   DEPTH     WSELK     VLOB       VCH       VROB       HL        EG       LEFT/RIGHT
   SLOPE     WTN       XNL        XNCH      XNR        OLOSS     CORAR      SSTA
             ELMIN     XLOBL      XLCH      XLOBR      WSDL      WSDR       ENDST       VOL

3470 ENCROACHMENT STATIONS=     175.0     305.0  TYPE=      1  TARGET=     130.000
     3.21    2705.       834.      1866.        6.      1.60          6      130.
  2653.27  2653.25       268.       155.        4.      0.89         15   2650.80
     6.37  2652.75       3.12      12.04      1.23      0.13    2654.87   2648.70
 0.014882    0.044      0.110      0.045     0.130      0.44      -0.00    175.00
           2646.90        15.        15.       15.      115.        15.    305.00      292.
```

*SECNO 3.390

3470 ENCROACHMENT STATIONS= 325.0 375.0 TYPE= 1 TARGET= 50.000

3.39	2420.	24.	2396.	0.	1.67	4	50.	
2666.55	0.0	13.	230.	0.	0.07	0	2663.40	
6.55	2665.97	1.87	10.42	0.0	13.31	2668.22	100000.00	
0.012587	0.044	0.130	0.045	0.150	0.04	-0.00	325.00	
	2660.00	970.	970.	970.	27.	23.	375.00	299.

THIS RUN EXECUTED 11/11/81 7:49:21

```
**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
**************************************************
```

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER
INDICATES MESSAGE IN SUMMARY OF ERRORS LIST/

BALD CREEK

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
	0.120	2485.61	0.0	2486.29	431.	0.	0.	0.	98.	157.	0.	3242.	2513.
	0.120	2486.61	1.00	2487.34	250.	250.	95.	345.	98.	157.	0.	3659.	2096.
	0.120	2485.83	0.0	2486.66	415.	0.	0.	0.	118.	157.	0.	3162.	2593.
	0.120	2486.73	0.91	2487.74	227.	250.	95.	345.	118.	157.	0.	3613.	2142.
*	0.120	2487.00	0.0	2487.44	431.	0.	0.	0.	118.	157.	0.	2785.	2970.
	0.120	2487.45	0.45	2488.15	250.	250.	95.	345.	118.	157.	177.	3364.	2215.
	0.120	2487.19	0.0	2487.49	476.	0.	0.	0.	98.	157.	7.	2830.	2918.
	0.120	2487.70	0.52	2488.21	250.	250.	95.	345.	98.	157.	2.	3545.	2208.
*	0.260	2490.53	0.0	2491.79	406.	0.	0.	0.	98.	157.	0.	3655.	2065.
*	0.260	2490.70	0.17	2492.43	243.	250.	95.	345.	98.	157.	0.	4144.	1576.
	0.390	2494.09	0.0	2494.54	595.	0.	0.	0.	617.	656.	3030.	2604.	56.
	0.390	2494.91	0.82	2495.64	250.	250.	410.	660.	617.	656.	2409.	3257.	24.
	0.390	2494.23	0.0	2494.64	598.	0.	0.	0.	617.	656.	3074.	2554.	62.
	0.390	2495.08	0.85	2495.76	250.	250.	410.	660.	617.	656.	2441.	3225.	24.
	0.390	2494.23	0.0	2494.64	598.	0.	0.	0.	617.	656.	3075.	2552.	62.
*	0.390	2495.08	0.85	2495.76	250.	250.	410.	660.	617.	656.	2442.	3224.	24.
*	0.400	2494.36	0.0	2495.57	499.	0.	0.	0.	617.	656.	2420.	3242.	29.
	0.400	2495.16	0.80	2496.51	250.	250.	410.	660.	617.	656.	2054.	3610.	26.
	0.790	2509.93	0.0	2510.93	343.	0.	0.	0.	184.	223.	0.	2782.	2618.
	0.790	2510.22	0.29	2511.54	216.	250.	145.	395.	184.	223.	1.	3157.	2243.
	0.790	2510.32	0.0	2512.08	82.	0.	0.	0.	148.	230.	0.	5400.	0.
	0.790	2510.69	0.37	2512.25	82.	250.	145.	395.	148.	230.	0.	5400.	0.
	0.790	2510.41	0.0	2512.12	82.	0.	0.	0.	148.	230.	0.	5400.	0.
	0.790	2510.76	0.35	2512.29	82.	250.	145.	395.	148.	230.	0.	5400.	0.
*	0.800	2511.84	0.0	2513.17	330.	0.	0.	0.	184.	223.	0.	2920.	2480.
*	0.800	2512.08	0.25	2513.77	211.	250.	145.	395.	184.	223.	0.	3245.	2155.

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
	1.170	2526.92	0.0	2527.40	547.	0.	0.	0.	700.	751.	2625.	2443.	52.
	1.170	2527.90	0.98	2528.66	250.	250.	505.	755.	700.	751.	1945.	3158.	17.
*	1.490	2541.86	0.0	2544.27	136.	0.	0.	0.	145.	184.	627.	3968.	290.
*	1.490	2541.98	0.13	2544.93	90.	90.	105.	195.	145.	184.	506.	4295.	84.
	1.570	2547.48	0.0	2549.17	138.	0.	0.	0.	145.	184.	766.	3695.	359.
	1.570	2548.04	0.57	2549.99	90.	90.	105.	195.	145.	184.	656.	4054.	110.
	1.580	2548.22	0.0	2549.50	141.	0.	0.	0.	145.	184.	854.	3560.	406.
	1.580	2548.71	0.49	2550.31	90.	90.	105.	195.	145.	184.	708.	3993.	119.
	1.580	2548.23	0.0	2549.50	141.	0.	0.	0.	145.	184.	856.	3558.	407.
	1.580	2548.91	0.68	2550.43	90.	90.	105.	195.	145.	184.	722.	3976.	121.
	1.580	2548.27	0.0	2549.63	142.	0.	0.	0.	145.	184.	739.	3659.	422.
	1.580	2548.95	0.68	2550.56	90.	90.	105.	195.	145.	184.	619.	4076.	125.
*	1.750	2560.62	0.0	2562.91	161.	0.	0.	0.	130.	164.	242.	3740.	708.
*	1.750	2560.60	-0.02	2563.94	70.	70.	110.	180.	130.	164.	255.	4239.	196.
	1.760	2561.29	0.0	2563.35	126.	0.	0.	0.	130.	164.	0.	3804.	886.
	1.760	2561.13	-0.16	2564.55	50.	70.	110.	180.	130.	164.	0.	4463.	227.
	1.760	2562.20	0.0	2563.39	184.	0.	0.	0.	130.	164.	340.	3375.	975.
	1.760	2562.62	0.42	2564.55	70.	70.	110.	180.	130.	164.	347.	4094.	250.
	1.760	2562.26	0.0	2563.44	185.	0.	0.	0.	130.	164.	320.	3380.	990.
	1.760	2562.69	0.42	2564.62	70.	70.	110.	180.	130.	164.	323.	4115.	252.
	1.990	2570.29	0.0	2571.90	243.	0.	0.	0.	429.	468.	1325.	3171.	20.
	1.990	2571.25	0.97	2572.58	172.	175.	330.	505.	429.	468.	1214.	3247.	54.
	2.000	2571.69	0.0	2572.38	240.	0.	0.	0.	405.	495.	592.	3923.	0.
	2.000	2572.32	0.63	2572.94	172.	175.	330.	505.	405.	495.	474.	4037.	4.
	2.000	2572.66	0.0	2573.12	329.	0.	0.	0.	405.	495.	738.	3771.	5.
	2.000	2573.69	1.03	2574.09	175.	175.	330.	505.	405.	495.	551.	3950.	13.
	2.000	2572.71	0.0	2573.15	330.	0.	0.	0.	405.	495.	777.	3733.	6.
	2.000	2573.73	1.02	2574.12	175.	175.	330.	505.	405.	495.	577.	3924.	14.
*	2.180	2583.61	0.0	2585.36	237.	0.	0.	0.	316.	343.	721.	2786.	793.
*	2.180	2584.13	0.52	2586.83	100.	100.	275.	375.	316.	343.	532.	3366.	402.
	2.190	2584.81	0.0	2585.71	246.	0.	0.	0.	316.	343.	958.	2439.	904.
	2.190	2585.60	0.80	2587.25	100.	100.	275.	375.	316.	343.	654.	3173.	473.
	2.190	2584.81	0.0	2585.71	246.	0.	0.	0.	316.	343.	959.	2436.	904.
	2.190	2585.61	0.80	2587.25	100.	100.	275.	375.	316.	343.	656.	3171.	474.
	2.190	2585.16	0.0	2585.78	249.	0.	0.	0.	316.	343.	1061.	2181.	1058.
	2.190	2586.07	0.91	2587.35	100.	100.	275.	375.	316.	343.	738.	2987.	575.
*	2.270	2588.25	0.0	2589.77	298.	0.	0.	0.	287.	322.	613.	2945.	617.
	2.270	2588.31	0.06	2590.75	100.	100.	250.	350.	287.	322.	288.	3473.	413.

J04

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
	2.270	2589.36	0.0	2590.10	329.	0.	0.	0.	287.	322.	888.	2544.	743.
	2.270	2589.74	0.38	2591.21	100.	100.	250.	350.	287.	322.	404.	3300.	471.
	2.270	2589.36	0.0	2590.10	329.	0.	0.	0.	287.	322.	889.	2542.	744.
	2.270	2590.11	0.75	2591.42	100.	100.	250.	350.	287.	322.	428.	3265.	482.
	2.270	2589.22	0.0	2590.37	306.	0.	0.	0.	287.	322.	667.	2741.	767.
	2.270	2590.05	0.83	2591.61	100.	100.	250.	350.	287.	322.	367.	3262.	546.
	2.430	2595.24	0.0	2596.33	330.	0.	0.	0.	475.	515.	1093.	2600.	232.
	2.430	2596.00	0.76	2597.30	150.	150.	400.	550.	475.	515.	751.	2973.	200.
	2.430	2596.33	0.0	2596.70	374.	0.	0.	0.	475.	515.	1538.	1974.	413.
	2.430	2597.02	0.69	2597.69	150.	150.	400.	550.	475.	515.	1023.	2576.	325.
	2.430	2596.88	0.0	2597.14	411.	0.	0.	0.	475.	515.	1644.	1824.	457.
*	2.430	2597.71	0.83	2598.23	150.	150.	400.	550.	475.	515.	1074.	2488.	363.
*	2.440	2597.77	0.0	2598.96	319.	0.	0.	0.	475.	515.	1073.	2591.	261.
*	2.440	2597.89	0.12	2599.77	150.	150.	400.	550.	475.	515.	679.	3069.	177.
*	2.580	2606.78	0.0	2608.25	312.	0.	0.	0.	475.	515.	867.	2681.	142.
	2.580	2607.38	0.59	2609.01	150.	150.	400.	550.	475.	515.	600.	2963.	126.
	2.730	2614.88	0.0	2615.45	394.	0.	0.	0.	624.	649.	1817.	1494.	144.
	2.730	2615.60	0.71	2616.63	150.	150.	510.	660.	624.	649.	1384.	1971.	100.
	2.730	2615.27	0.0	2615.69	410.	0.	0.	0.	624.	649.	1902.	1396.	157.
	2.730	2616.12	0.85	2616.94	150.	150.	510.	660.	624.	649.	1448.	1903.	104.
*	2.730	2615.28	0.0	2615.69	410.	0.	0.	0.	624.	649.	1905.	1393.	157.
*	2.730	2616.12	0.84	2616.94	150.	150.	510.	660.	624.	649.	1448.	1903.	104.
	2.730	2615.34	0.0	2615.74	412.	0.	0.	0.	624.	649.	1921.	1385.	149.
	2.730	2616.21	0.87	2617.01	150.	150.	510.	660.	624.	649.	1461.	1897.	97.
*	2.800	2618.79	0.0	2619.84	362.	0.	0.	0.	624.	649.	1523.	1692.	130.
	2.800	2619.76	0.97	2621.01	150.	150.	510.	660.	624.	649.	1257.	1981.	107.
	2.890	2626.69	0.0	2627.68	228.	0.	0.	0.	215.	262.	348.	2642.	200.
	2.890	2627.15	0.46	2628.44	70.	70.	205.	275.	215.	262.	60.	3029.	101.
	2.900	2627.36	0.0	2628.81	222.	0.	0.	0.	215.	262.	205.	2807.	177.
	2.900	2627.84	0.48	2629.42	70.	70.	205.	275.	215.	262.	50.	3045.	95.
	2.900	2629.89	0.0	2630.24	239.	0.	0.	0.	215.	262.	727.	2170.	293.
	2.900	2630.21	0.32	2631.01	70.	70.	205.	275.	215.	262.	89.	2960.	141.
	2.900	2629.91	0.0	2630.33	239.	0.	0.	0.	215.	262.	597.	2309.	284.
	2.900	2630.25	0.34	2631.07	70.	70.	205.	275.	215.	262.	69.	2991.	130.
	2.950	2630.79	0.0	2631.69	229.	0.	0.	0.	215.	262.	352.	2562.	196.
	2.950	2631.43	0.64	2632.56	70.	70.	205.	275.	215.	262.	60.	2950.	100.
	3.050	2636.11	0.0	2637.39	219.	0.	0.	0.	215.	262.	187.	2614.	154.
	3.050	2636.53	0.42	2637.94	70.	70.	205.	275.	215.	262.	46.	2827.	82.

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
*	3.200	2650.50	0.0	2651.45	251.	0.	0.	0.	275.	304.	1158.	1443.	104.
*	3.200	2651.04	0.54	2652.55	130.	130.	175.	305.	275.	304.	883.	1816.	5.
*	3.210	2651.69	0.0	2652.77	230.	0.	0.	0.	275.	304.	1202.	1503.	0.
*	3.210	2652.20	0.51	2653.76	129.	130.	175.	305.	275.	304.	878.	1827.	0.
	3.210	2652.67	0.0	2653.15	248.	0.	0.	0.	275.	304.	1425.	1280.	0.
	3.210	2653.59	0.92	2654.30	130.	130.	175.	305.	275.	304.	1072.	1629.	4.
*	3.210	2652.75	0.0	2653.76	252.	0.	0.	0.	275.	304.	1108.	1488.	109.
	3.210	2653.27	0.53	2654.87	130.	130.	175.	305.	275.	304.	834.	1866.	6.
	3.390	2665.97	0.0	2667.51	147.	0.	0.	0.	329.	375.	271.	2148.	1.
	3.390	2666.55	0.58	2668.22	50.	50.	325.	375.	329.	375.	24.	2396.	0.

SUMMARY OF ERRORS

CAUTION SECNO= 0.120 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO= 0.260 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.260 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 0.260 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 0.260 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.260 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 0.260 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.390 PROFILE= 2 HYDRAULIC JUMP D.S.

CAUTION SECNO= 0.400 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.800 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.800 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 0.800 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 0.800 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.490 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.490 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.750 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.750 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 2.180 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 2.180 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 2.180 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 2.180 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 2.180 PROFILE= 2

```
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    2.180  PROFILE= 2
 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=    2.270  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.270  PROFILE= 1
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    2.270  PROFILE= 1
 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=    2.430  PROFILE= 2  HYDRAULIC JUMP D.S.

CAUTION  SECNO=    2.440  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.440  PROFILE= 1
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    2.440  PROFILE= 1
 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=    2.440  PROFILE= 2  CRITICAL DEPTH ASSUMED

CAUTION  SECNO=    2.580  PROFILE= 1  CRITICAL DEPTH ASSUMED

CAUTION  SECNO=    2.730  PROFILE= 1  HYDRAULIC JUMP D.S.
CAUTION  SECNO=    2.730  PROFILE= 2  HYDRAULIC JUMP D.S.

CAUTION  SECNO=    2.800  PROFILE= 1  CRITICAL DEPTH ASSUMED

CAUTION  SECNO=    3.200  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    3.200  PROFILE= 2  CRITICAL DEPTH ASSUMED

CAUTION  SECNO=    3.210  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    3.210  PROFILE= 2  CRITICAL DEPTH ASSUMED

CAUTION  SECNO=    3.210  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    3.210  PROFILE= 1
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    3.210  PROFILE= 1
 20 TRIALS ATTEMPTED TO BALANCE WSEL
```

FLOODWAY DATA, BALD CREEK
PROFILE NO. 2

STATION	FLOODWAY WIDTH (FT)	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
0.120	250.	1316.	4.4	2486.6	2485.6	1.0
0.120	250.	1267.	4.5	2486.7	2485.8	0.9
0.120	250.	1527.	3.8	2487.5	2487.0	0.5
0.120	250.	1590.	3.6	2487.7	2487.2	0.5
0.260	250.	897.	6.4	2490.7	2490.5	0.2
0.390	250.	1468.	3.9	2494.9	2494.1	0.8
0.390	250.	1509.	3.8	2495.1	2494.2	0.9
0.390	250.	1511.	3.8	2495.1	2494.2	0.9
0.400	250.	1104.	5.2	2495.2	2494.4	0.8
0.790	250.	973.	5.5	2510.2	2509.9	0.3
0.790	250.	538.	10.0	2510.7	2510.3	0.4
0.790	250.	544.	9.9	2510.8	2510.4	0.4
0.800	250.	859.	6.3	2512.1	2511.8	0.3
1.170	250.	1178.	4.3	2527.9	2526.9	1.0
1.490	90.	471.	10.4	2542.0	2541.9	0.1
1.570	90.	567.	8.5	2548.0	2547.5	0.5
1.580	90.	627.	7.7	2548.7	2548.2	0.5
1.580	90.	645.	7.5	2548.9	2548.2	0.7
1.580	90.	648.	7.4	2549.0	2548.3	0.7
1.750	70.	407.	11.5	2560.6	2560.6	0.0
1.760	70.	363.	12.9	2561.3	2561.3	0.0
1.760	70.	549.	8.5	2562.6	2562.2	0.4
1.760	70.	552.	8.5	2562.7	2562.3	0.4
1.990	175.	799.	5.6	2571.3	2570.3	1.0
2.000	175.	914.	4.9	2572.3	2571.7	0.6
2.000	175.	1153.	3.9	2573.7	2572.7	1.0
2.000	175.	1159.	3.9	2573.7	2572.7	1.0
2.180	100.	514.	8.4	2584.1	2583.6	0.5
2.190	100.	660.	6.5	2585.6	2584.8	0.8
2.190	100.	662.	6.5	2585.6	2584.8	0.8
2.190	100.	708.	6.1	2586.1	2585.2	0.9
2.270	100.	466.	9.0	2588.3	2588.3	0.0
2.270	100.	609.	6.9	2589.7	2589.4	0.3
2.270	100.	647.	6.5	2590.1	2589.4	0.7
2.270	100.	570.	7.3	2590.0	2589.2	0.8
2.430	150.	661.	5.9	2596.0	2595.2	0.8
2.430	150.	813.	4.8	2597.0	2596.3	0.7
2.430	150.	919.	4.3	2597.7	2596.9	0.8
2.440	150.	525.	7.5	2597.9	2597.8	0.1
2.580	150.	568.	6.5	2607.4	2606.8	0.6
2.730	150.	712.	4.9	2615.6	2614.9	0.7
2.730	150.	791.	4.4	2616.1	2615.3	0.8
2.730	150.	790.	4.4	2616.1	2615.3	0.8
2.730	150.	804.	4.3	2616.2	2615.3	0.9
2.800	150.	631.	5.3	2619.8	2618.8	1.0
2.890	70.	406.	7.9	2627.2	2626.7	0.5
2.900	70.	363.	8.8	2627.8	2627.4	0.4
2.900	70.	515.	6.2	2630.2	2629.9	0.3
2.900	70.	518.	6.2	2630.3	2629.9	0.4
2.950	70.	425.	7.3	2631.4	2630.8	0.6

FLOODWAY DATA, BALD CREEK
PROFILE NO. 2

STATION	FLOODWAY WIDTH (FT)	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
3.050	70.	355.	8.3	2636.5	2636.1	0.4
3.200	130.	422.	6.4	2651.0	2650.5	0.5
3.210	130.	413.	6.5	2652.2	2651.7	0.5
3.210	130.	598.	4.5	2653.6	2652.7	0.9
3.210	130.	427.	6.3	2653.3	2652.7	0.6
3.390	50.	243.	10.0	2666.6	2666.0	0.6

..

THIS RUN EXECUTED 11/11/81 7:49:06

```
**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
**************************************************

T1      YANCEY CO NC FEMA STUDY          JLB 3-16-81 BALD1                          5
T2      10 YR FLOOD                      HCDQ113                                   10
T3      BALD CREEK                       FLOOD PROFILES                            15

J1  ICHECK     INQ    NINV    IDIR    STRT  METRIC   HVINS      Q      WSEL    FQ
         0.      2.      0.      0. 0.00582      0.     0.0      0.     0.0     0.0      20

J2  NPROF    IPLOT   PRFVS    XSECV   XSECH      FN   ALLDC     IBW   CHNIM ITRACE
         0.      0.     -1.      0.      0.     0.0     0.0      0.      0.      0.      25

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     150.00     0.0  160.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0      30

QT       5.   2625.   4645.   5755.   9100.   5755.      0.      0.      0.      0.      35
NC   0.120   0.120   0.045     0.1     0.5                                               40


X1    0.12      15.     98.    157.      0.      0.      0.     0.0     0.0      0.      45
GR 2498.1      54.   2495.0    64.   2486.5    74.   2486.5    98.   2479.0   118.      50
GR 2476.4     127.   2476.6   140.   2477.4   150.   2481.7   157.   2482.1   170.      55
GR 2481.9     250.   2481.8   360.   2482.7   457.   2486.2   547.   2502.5   580.      60
NC   0.110   0.110   0.040     0.0     0.0                                               65


X1    0.12      15.    118.    157.     60.     60.     60.     0.0     0.0      0.      70
X3     10.     0.0     0.0      0.     0.0      0.     0.0  2486.9  2483.5               75
GR 2498.1      54.   2495.0    64.   2486.5    74.   2486.5    98.   2479.0   118.      80
GR 2476.4     127.   2476.6   140.   2477.4   150.   2481.7   157.   2482.1   170.      85
GR 2481.9     250.   2481.8   360.   2482.7   457.   2486.2   547.   2502.5   580.      90
SB    1.25    1.60    3.00      0.    33.00    0.50  263.00     0.0  2475.8  2475.8      95


X1    0.12       0.      0.      0.     28.     28.     28.     0.0     0.0      0.     100
X2      0.     0.0      1.  2483.9  2484.0     0.0      0.     0.0     0.0      0.     105
X3     10.     0.0     0.0      0.     0.0      0.     0.0  2487.4  2484.0               110
BT    12.0    54.0  2498.1     0.0    64.0  2495.0     0.0    70.0  2489.5     0.0     115
BT   118.0  2487.4     0.0   118.0  2489.0     0.0   157.0  2487.2     0.0   157.0     120
BT  2485.5     0.0   258.0  2484.0     0.0   358.0  2484.5     0.0   458.0  2487.0     125
BT     0.0   558.0  2491.7     0.0   580.0  2502.5     0.0     0.0     0.0     0.0     130


X1    0.12      15.     98.    157.     15.     15.     15.     0.0     0.0      0.     135
GR 2498.1      54.   2495.0    64.   2486.5    74.   2486.5    98.   2479.0   118.     140
GR 2476.4     127.   2476.6   140.   2477.4   150.   2481.7   157.   2482.1   170.     145
GR 2481.9     250.   2481.8   360.   2482.7   457.   2486.2   547.   2502.5   580.     150
QT       5.   2600.   4620.   5720.   9040.   5720.      0.      0.      0.      0.     155
```

B01

X1	0.26	0.	0.	0.	590.	590.	590.	0.0	5.80	0.	160
QT	5.	2595.	4590.	5690.	8985.	5690.	0.	0.	0.	0.	165
NC	0.110	0.120	0.040	0.0	0.0						170
X1	0.39	17.	617.	656.	595.	595.	595.	0.0	0.0	0.	175
GR	2505.5	0.	2498.0	59.	2494.0	130.	2490.9	220.	2490.7	233.	180
GR	2490.7	340.	2489.7	371.	2489.7	617.	2485.1	626.	2484.3	637.	185
GR	2484.3	648.	2485.6	653.	2489.3	656.	2492.5	665.	2493.8	690.	190
GR	2493.8	723.	2504.7	739.	0.0	0.	0.0	0.	0.0	0.	195
X1	0.39	0.	0.	0.	40.	40.	40.	0.0	0.0	0.	200
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2489.2	2490.5		205
SB	1.25	1.60	3.00	0.	25.00	0.50	130.00	0.0	2484.3	2484.3	210
X1	0.39	0.	0.	0.	12.	12.	12.	0.0	0.0	0.	215
X2	0.	0.0	1.	2489.6	2489.7	0.0	0.	0.0	0.0	0.	220
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2489.7	2491.0		225
BT	17.0	0.0	2505.5	0.0	59.0	2498.0	0.0	130.0	2494.0	0.0	230
BT	220.0	2490.9	0.0	233.0	2490.7	0.0	340.0	2490.7	0.0	371.0	235
BT	2489.7	0.0	450.0	2489.7	0.0	622.0	2490.4	0.0	622.0	2491.0	240
BT	0.0	655.0	2491.0	0.0	662.0	2491.5	0.0	665.0	2492.5	0.0	245
BT	690.0	2493.9	0.0	712.0	2493.8	0.0	723.0	2493.8	0.0	739.0	250
BT	2504.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	255
NC	0.110	0.100	0.040	0.0	0.8						260
X1	0.40	0.	0.	0.	50.	50.	50.	0.0	1.70	0.	265
QT	5.	2470.	4360.	5400.	8520.	5400.	0.	0.	0.	0.	270
NC	0.110	0.110	0.040	0.0	0.5						275
X1	0.79	22.	184.	223.	1980.	1980.	1980.	0.0	0.0	0.	280
GR	2521.9	25.	2517.6	40.	2514.7	115.	2512.7	135.	2513.3	148.	285
GR	2513.4	150.	2509.7	184.	2502.4	194.	2501.1	200.	2501.2	204.	290
GR	2501.9	206.	2502.5	217.	2506.7	223.	2506.6	230.	2506.2	256.	295
GR	2506.4	272.	2505.7	372.	2507.4	470.	2512.1	572.	2514.5	657.	300
GR	2515.7	677.	2523.1	727.	0.0	0.	0.0	0.	0.0	0.	305
NC	0.0	0.0	0.035	0.0	0.8						310
X1	0.79	22.	148.	230.	80.	80.	80.	0.0	0.0	0.	315
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2516.7	2517.0		320
GR	2521.9	25.	2517.6	40.	2514.7	115.	2512.7	135.	2513.3	148.	325
GR	2507.3	148.	2505.0	169.	2502.4	194.	2501.2	200.	2501.2	204.	330
GR	2501.9	206.	2502.5	217.	2506.7	223.	2506.6	230.	2506.2	256.	335
GR	2506.4	272.	2505.7	372.	2507.4	470.	2512.1	572.	2514.5	657.	340
GR	2515.7	677.	2523.1	727.	0.0	0.	0.0	0.	0.0	0.	345
SB	1.25	1.60	3.00	0.	64.00	0.50	838.00	0.0	2501.2	2501.2	350
NC	0.0	0.0	0.0	0.0	0.5						355
X1	0.79	0.	0.	0.	20.	20.	20.	0.0	0.0	0.	360
X2	0.	0.0	1.	2514.4	2517.2	0.0	0.	0.0	0.0	0.	365
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2517.2	2517.5		370
BT	12.0	25.0	2521.9	0.0	40.0	2517.6	0.0	49.0	2517.2	0.0	375

C01

```
BT 145.0 2517.7   0.0 145.0 2520.8   0.0 234.0 2520.9   0.0 234.0   380
BT 2517.6   0.0 250.0 2517.5   0.0 445.0 2517.5   0.0 657.0 2517.5   385
BT   0.0 690.0 2517.5   0.0 727.0 2523.1   0.0   0.0   0.0   0.0   390
NC 0.100 0.120 0.045   0.0   0.8                                     395

X1  0.80   22.  184.  223.   40.   40.   40.   0.0  2.40    0.   400
GR 2521.9   25. 2517.6   40. 2514.7  115. 2512.7  135. 2513.3  148.  405
GR 2513.4  150. 2509.7  184. 2502.4  194. 2501.1  200. 2501.2  204.  410
GR 2501.9  206. 2502.5  217. 2506.7  223. 2506.6  230. 2506.2  256.  415
GR 2506.4  272. 2505.7  372. 2507.4  470. 2512.1  572. 2514.5  657.  420
GR 2515.7  677. 2523.1  727.   0.0    0.   0.0    0.   0.0    0.   425
QT     5. 2345.  4140. 5120.  8070. 5120.    0.    0.    0.    0.   430
NC 0.100 0.120 0.040   0.0   0.0                                     435

X1  1.17   16.  700.  751.  2015. 2015.  2015.  0.0   0.0    0.   440
GR 2540.5   24. 2534.5   85. 2533.5   90. 2527.5  235. 2523.8  305.  445
GR 2523.8  700. 2522.9  708. 2519.3  716. 2519.0  722. 2518.5  725.  450
GR 2518.3  728. 2519.3  731. 2518.8  735. 2524.3  751. 2528.0  810.  455
GR 2540.0  853.   0.0    0.   0.0    0.   0.0    0.   0.0    0.   460
QT     5. 2240.  3950. 4885.  7695. 4885.    0.    0.    0.    0.   465

X1  1.49   16.  145.  184.  1680. 1680.  1680.  0.0  -5.00    0.   470
GR 2562.0   10. 2557.5   15. 2557.5   61. 2543.8   92. 2543.4  125.  475
GR 2543.5  137. 2542.7  145. 2540.0  148. 2539.0  150. 2538.4  154.  480
GR 2538.0  169. 2539.0  174. 2540.7  177. 2543.9  184. 2543.4  215.  485
GR 2562.6  248.   0.0    0.   0.0    0.   0.0    0.   0.0    0.   490
QT     5. 2210.  3900. 4820.  7590. 4820.    0.    0.    0.    0.   495
NC 0.100 0.120 0.045   0.0   0.0                                     500

X1  1.57   16.  145.  184.  510.  510.  510.  0.0   0.0    0.   505
GR 2562.0   10. 2557.5   15. 2557.5   61. 2543.8   92. 2543.4  125.  510
GR 2543.5  137. 2542.7  145. 2540.0  148. 2539.0  150. 2538.4  154.  515
GR 2538.0  169. 2539.0  174. 2540.7  177. 2543.9  184. 2543.4  215.  520
GR 2562.6  248.   0.0    0.   0.0    0.   0.0    0.   0.0    0.   525

X1  1.58    0.    0.    0.   40.   40.   40.  0.0   0.0    0.   530
X3    10.  0.0   0.0    0.   0.0   0.   0.0 2543.0 2542.9        535
SB  1.25  1.60  3.00    0.  19.00 0.01 120.00 0.0  2537.5 2537.5 540

X1  1.58    0.    0.    0.   12.   12.   12.  0.0   0.0    0.   545
X2    0.   0.0   1.  2543.8 2543.4  0.0   0.   0.0   0.0    0.   550
X3    10.  0.0   0.0    0.   0.0   0.   0.0 2543.5 2543.4        555
BT  12.0  10.0 2562.0   0.0  15.0 2557.5  0.0  61.0 2557.5   0.0  560
BT  85.0 2544.3  0.0   119.0 2543.4  0.0  147.0 2544.9  0.0  147.0 565
BT 2545.1  0.0  179.0 2544.4  0.0  179.0 2544.1  0.0  184.0 2543.9 570
BT   0.0  215.0 2543.4   0.0  248.0 2562.6  0.0   0.0   0.0   0.0  575
NC 0.120 0.120 0.045   0.0   0.8                                     580

X1  1.58   16.  145.  184.  10.   10.   10.  0.0   0.0    0.   585
GR 2562.0   10. 2557.5   15. 2557.5   61. 2543.8   92. 2543.4  125.  590
GR 2543.5  137. 2542.7  145. 2540.0  148. 2539.0  150. 2538.4  154.  595
GR 2538.0  169. 2539.0  174. 2540.7  177. 2543.9  184. 2543.4  215.  600
GR 2562.6  248.   0.0    0.   0.0    0.   0.0    0.   0.0    0.   605
```

D01

```
QT      5.   2150.   3795.   4690.   7375.   4690.      0.      0.      0.      0.  610
NC  0.120   0.120   0.045    0.0     0.0                                             615

X1   1.75     20.    130.    164.    890.    890.    890.     0.0     0.0      0.  620
GR 2575.0     23.  2562.9     23.  2562.9     50.  2562.5     72.  2559.1    110.  625
GR 2559.0    112.  2556.7    118.  2556.0    130.  2552.9    132.  2552.0    140.  630
GR 2550.4    147.  2550.5    150.  2551.0    153.  2555.0    160.  2556.6    164.  635
GR 2558.2    225.  2558.3    247.  2565.0    268.  2568.0    285.  2571.6    299.  640
NC  0.0     0.0     0.0      0.0     0.5                                             645

X1   1.76      0.      0.      0.     40.     40.     40.     0.0     0.0      0.  650
X3     10.    0.0     0.0      0.    0.0      0.    0.0  2561.7  2559.9               655
SB   1.25    1.60    3.00      0.  31.00    0.50  345.00     0.0  2550.0  2550.0  660

X1   1.76      0.      0.      0.     12.     12.     12.     0.0     0.0      0.  665
X2     0.    0.0      1.  2561.3  2560.4     0.0     0.     0.0     0.0      0.  670
X3     10.    0.0     0.0      0.    0.0      0.    0.0  2562.2  2560.4               675
BT   13.0    23.0  2575.0     0.0    23.0  2562.9     0.0    50.0  2562.9     0.0  680
BT   82.0  2562.7     0.0   107.0  2562.2     0.0   108.0  2562.7     0.0   164.0  685
BT 2561.6     0.0   164.0  2561.3     0.0   210.0  2560.7     0.0   253.0  2560.4  690
BT    0.0   268.0  2565.0     0.0   285.0  2568.0     0.0   299.0  2571.6     0.0  695
NC  0.130   0.120   0.045     0.0     0.8                                             700

X1   1.76     20.    130.    164.     10.     10.     10.     0.0     0.0      0.  705
GR 2575.0     23.  2562.9     23.  2562.9     50.  2562.5     72.  2559.1    110.  710
GR 2559.0    112.  2556.7    118.  2556.0    130.  2552.9    132.  2552.0    140.  715
GR 2550.4    147.  2550.5    150.  2551.0    153.  2555.0    160.  2556.6    164.  720
GR 2558.2    225.  2558.3    247.  2565.0    268.  2568.0    285.  2571.6    299.  725
QT      5.   2075.   3655.   4515.   7095.   4515.      0.      0.      0.      0.  730
NC  0.130   0.130   0.045     0.0     0.0                                             735

X1   1.99     26.    429.    468.   1115.   1115.   1115.     0.0   -1.50      0.  740
GR 2585.5    100.  2582.9    104.  2581.1    123.  2582.0    125.  2574.1    139.  745
GR 2574.3    155.  2572.6    175.  2571.6    263.  2570.6    285.  2568.8    293.  750
GR 2569.1    300.  2567.6    429.  2564.2    435.  2563.8    440.  2563.7    445.  755
GR 2563.2    450.  2563.2    453.  2564.0    456.  2570.1    468.  2573.0    505.  760
GR 2573.4    542.  2573.4    569.  2574.5    587.  2574.0    592.  2581.5    665.  765
GR 2583.9    685.     0.0      0.     0.0      0.    0.0      0.     0.0      0.  770
NC  0.130   0.130   0.045     0.0     0.8                                             775

X1   2.00     26.    405.    495.     60.     60.     60.     0.0     0.0      0.  780
X3     10.    0.0     0.0      0.    0.0      0.    0.0  2570.0  2571.7               785
GR 2585.5    100.  2582.9    104.  2581.1    123.  2582.0    125.  2574.1    139.  790
GR 2574.3    155.  2572.6    175.  2571.6    263.  2570.6    285.  2568.8    293.  795
GR 2569.1    300.  2567.9    405.  2564.2    435.  2563.8    440.  2563.7    445.  800
GR 2563.2    450.  2563.2    453.  2563.7    465.  2570.5    495.  2573.0    505.  805
GR 2573.4    542.  2573.4    569.  2574.5    587.  2574.0    592.  2581.5    665.  810
GR 2583.9    685.     0.0      0.     0.0      0.    0.0      0.     0.0      0.  815
SB   1.25    1.60    3.00      0.  30.00     1.10  400.00     4.40  2563.7  2563.7  820
NC  0.0     0.0     0.0      0.0     0.5                                             825

X1   2.00      0.      0.      0.     26.     26.     26.     0.0     0.0      0.  830
X2     0.    0.0      1.  2570.5  2570.5     0.0     0.     0.0     0.0      0.  835
```

E01

```
X3    10.     0.0     0.0      0.     0.0      0.     0.0  2570.5  2572.2              840
BT    22.0  100.0  2585.5      0.0  104.0  2582.9      0.0   123.0  2581.1      0.0     845
BT   125.0 2582.0     0.0    139.0 2574.1     0.0    155.0  2574.3     0.0    175.0     850
BT  2572.6    0.0   263.0   2571.6    0.0   285.0   2570.6     0.0   300.0   2570.6     855
BT     0.0  325.0  2570.5      0.0  404.0  2572.2      0.0   404.0  2573.5      0.0     860
BT   497.0 2573.5     0.0    497.0 2572.6     0.0    505.0  2573.0     0.0    542.0     865
BT  2573.4    0.0   569.0   2573.4    0.0   587.0   2574.5     0.0   592.0   2574.0     870
BT     0.0  665.0  2581.5      0.0  685.0  2583.9      0.0     0.0     0.0      0.0     875
NC  0.110   0.110   0.040      0.0    0.0                                              880

X1   2.00      0.      0.      0.     15.     15.     15.    0.0     0.0      0.      885
QT      5.   1975.   3480.   4300.   6750.     0.      0.     0.      0.      0.      890
NC  0.110   0.120   0.040      0.0    0.0                                              895

X1   2.18     13.    316.    343.    945.    945.    945.    0.0     0.0      0.      900
GR 2600.0    125.  2590.9    125.  2590.9    160.  2590.2    170.  2582.8    197.    905
GR 2580.3    280.  2580.3    316.  2575.0    323.  2573.8    326.  2575.0    339.    910
GR 2580.1    343.  2580.0    417.  2600.0    494.     0.0     0.     0.0      0.      915
NC  0.110   0.120   0.040      0.0    0.0                                              920

X1   2.19      0.      0.      0.     40.     40.     40.    0.0     0.0      0.      925
X3     10.     0.0     0.0      0.     0.0      0.     0.0  2579.8  2579.5              930
SB   1.25    1.60    3.00      0.   14.00    0.20   80.00    0.0  2573.8  2573.8     935

X1   2.19      0.      0.      0.     12.     12.     12.    0.0     0.0      0.      940
X2      0.     0.0     1.   2579.6  2580.0     0.0     0.     0.0     0.0      0.      945
X3     10.     0.0     0.0      0.     0.0      0.     0.0  2580.3  2580.0              950
BT   15.0   125.0  2600.0      0.0  125.0  2590.9      0.0   160.0  2590.9      0.0     955
BT  170.0  2590.2     0.0    190.0 2585.2     0.0    227.0  2582.0     0.0    260.0     960
BT 2581.0     0.0   290.0   2580.3    0.0   315.0   2580.3     0.0   336.0   2580.1     965
BT     0.0  336.0  2579.7      0.0  342.0  2579.7      0.0   343.0  2580.1      0.0     970
BT   417.0 2580.0     0.0    494.0 2600.0     0.0      0.0     0.0     0.0      0.0     975
NC  0.110   0.110   0.045      0.0    0.0                                              980

X1   2.19      0.      0.      0.     10.     10.     10.    0.0     0.0      0.      985
QT      5.   1920.   3380.   4175.   6550.   4175.     0.     0.      0.      0.      990
NC  0.110   0.110   0.045      0.0    0.0                                              995

X1   2.27     14.    287.    322.    340.    340.    340.    0.0     0.0      0.     1000
GR 2599.0     75.  2593.7     83.  2593.7    114.  2587.2    138.  2585.4    287.   1005
GR 2580.6    295.  2579.8    302.  2580.0    315.  2580.5    317.  2584.3    322.   1010
GR 2584.0    332.  2592.5    533.  2596.6    562.  2601.2    644.     0.0     0.     1015

X1   2.27      0.      0.      0.     40.     40.     40.    0.0     0.0      0.     1020
X3     10.     0.0     0.0      0.     0.0      0.     0.0  2584.5  2584.8             1025
SB   1.25    1.60    3.00      0.   15.00    0.01   75.00    0.0  2580.0  2580.0    1030

X1   2.27      0.      0.      0.     12.     12.     12.    0.0     0.0      0.     1035
X2      0.     0.0     1.   2585.0  2585.0     0.0     0.     0.0     0.0      0.     1040
X3     10.     0.0     0.0      0.     0.0      0.     0.0  2585.0  2585.3             1045
BT   15.0    75.0  2600.0      0.0   83.0  2594.5      0.0   125.0  2594.5      0.0    1050
BT  149.0  2590.2     0.0    195.0 2587.1     0.0    240.0  2586.0     0.0    287.0    1055
```

```
BT 2585.4     0.0   288.0  2585.0     0.0   309.0  2586.6     0.0   327.0  2586.5   1060
BT    0.0   332.0  2586.2     0.0   363.0  2585.3     0.0   527.0  2592.4     0.0   1065
BT  562.0  2597.3     0.0   644.0  2601.9     0.0     0.0     0.0     0.0     0.0   1070
NC  0.110   0.090   0.045     0.0     0.0                                            1075


X1   2.27      0.      0.      0.     10.     10.     10.     0.0    0.70      0.    1080
QT      5.   1810.   3180.   3925.   6150.   3925.      0.      0.      0.      0.   1085
NC  0.120   0.110   0.045     0.0     0.0                                            1090


X1   2.43     20.    475.    515.    720.    720.    720.     0.0     0.0      0.    1095
GR 2615.2     51.   2607.3    55.   2606.2    62.   2605.7    65.   2605.0   105.   1100
GR 2598.7    116.   2597.7   161.   2597.0   172.   2596.5   210.   2592.2   364.   1105
GR 2592.2    475.   2591.5   478.   2587.5   481.   2586.5   482.   2588.4   504.   1110
GR 2593.4    515.   2593.4   578.   2597.4   594.   2597.5   605.   2607.7   660.   1115
NC  0.090   0.080   0.045     0.0     0.0                                            1120


X1   2.43      0.      0.      0.     60.     60.     60.     0.0     0.0      0.    1125
X3     10.     0.0     0.0     0.     0.0     0.      0.0  2593.9  2593.0           1130
SB   1.25    1.60    3.00      0.    18.00   0.30  110.00    0.0  2586.3  2586.3   1135


X1   2.43      0.      0.      0.     12.     12.     12.     0.0     0.0      0.    1140
X2      0.     0.0     1.   2592.5  2593.5   0.0      0.     0.0     0.0      0.    1145
X3     10.     0.0     0.0     0.     0.0     0.      0.0  2594.4  2593.5           1150
BT   17.0    51.0  2615.2     0.0    55.0  2607.3     0.0    62.0  2606.2     0.0   1155
BT  102.0  2606.2     0.0   123.0  2606.7     0.0   143.0  2606.4     0.0   155.0   1160
BT 2603.7     0.0   207.0  2600.0     0.0   280.0  2596.6     0.0   381.0  2594.4   1165
BT    0.0   475.0  2594.4     0.0   515.0  2594.4     0.0   545.0  2594.4     0.0   1170
BT  578.0  2593.5     0.0   594.0  2597.4     0.0   605.0  2597.5     0.0   660.0   1175
BT 2607.7     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0   1180
NC  0.110   0.080   0.045     0.0     0.8                                            1185


X1   2.44      0.      0.      0.     15.     15.     15.     0.0    2.80      0.    1190
QT      5.   1700.   2990.   3690.   5775.   3690.      0.      0.      0.      0.   1195
NC  0.130   0.130   0.045     0.0     0.0                                            1200


X1   2.58      0.      0.      0.    750.    750.    750.     0.0    9.20      0.    1205
QT      5.   1595.   2800.   3455.   5400.   3455.      0.      0.      0.      0.   1210
NC  0.120   0.140   0.045     0.0     0.0                                            1215


X1   2.73     20.    624.    649.    785.    785.    785.     0.0     0.0      0.    1220
GR 2628.6     48.   2626.8    65.   2626.3    85.   2620.0   131.   2617.6   165.   1225
GR 2617.4    233.   2613.9   333.   2612.0   432.   2611.4   485.   2611.4   604.   1230
GR 2611.4    607.   2611.4   624.   2607.0   636.   2606.8   639.   2606.9   646.   1235
GR 2607.5    648.   2611.4   649.   2611.3   655.   2616.6   720.   2628.6   816.   1240
NC  0.0       0.0     0.0     0.0     0.5                                            1245


X1   2.73      0.      0.      0.     40.     40.     40.     0.0     0.0      0.    1250
X3     10      0.0     0.0     0.     0.0     0.      0.0  2610.9  2610.8           1255
SB   1.        1.60    3.00    0.    21.00   0.50   78.00    0.0  2606.8  2606.8   1260


X1   2.73      0.      0.      0.     12.     12.     12.     0.0     0.0      0.    1265
```

G01

X2	0.	0.0	1.	2610.6	2611.3	0.0	0.	0.0	0.0	0.	1270
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2611.4	2611.3		1275
BT	12.0	48.0	2628.6	0.0	95.0	2626.5	0.0	165.0	2617.6	0.0	1280
BT	233.0	2617.4	0.0	333.0	2613.9	0.0	432.0	2612.0	0.0	485.0	1285
BT	2611.4	0.0	612.0	2611.4	0.0	620.0	2611.6	0.0	655.0	2611.3	1290
BT	0.0	720.0	2616.6	0.0	816.0	2628.6	0.0	0.0	0.0	0.0	1295
NC	0.120	0.150	0.045	0.0	0.0						1300
X1	2.73	0.	0.	0.	10.	10.	10.	0.0	0.0	0.	1305
QT	5.	1550.	2715.	3345.	5225.	3345.	0.	0.	0.	0.	1310
NC	0.160	0.160	0.060	0.0	0.8						1315
X1	2.80	0.	0.	0.	370.	370.	370.	0.0	4.70	0.	1320
QT	5.	1475.	2585.	3190.	4970.	3190.	0.	0.	0.	0.	1325
NC	0.160	0.160	0.060	0.0	0.8						1330
X1	2.89	12.	215.	262.	500.	500.	500.	0.0	-1.50	0.	1335
GR	2640.0	48.	2632.6	59.	2627.6	74.	2625.3	215.	2622.6	225.	1340
GR	2620.0	242.	2621.6	260.	2624.7	262.	2625.5	291.	2630.5	308.	1345
GR	2634.0	320.	2640.7	353.	0.0	0.	0.0	0.	0.0	0.	1350
NC	0.150	0.140	0.055	0.0	0.0						1355
X1	2.90	0.	0.	0.	60.	60.	60.	0.0	1.30	0.	1360
SB	1.25	1.60	3.00	0.	23.00	0.01	120.00	0.0	2619.8	2619.8	1365
NC	0.100	0.100	0.045	0.0	0.5						1370
X1	2.90	0.	0.	0.	12.	12.	12.	0.0	0.20	0.	1375
X2	0.	0.0	1.	2625.0	2626.2	0.0	0.	0.0	0.0	0.	1380
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2626.2	2626.5		1385
BT	12.0	48.0	2640.0	0.0	62.0	2632.6	0.0	66.0	2633.0	0.0	1390
BT	88.0	2632.6	0.0	125.0	2630.2	0.0	225.0	2626.2	0.0	225.0	1395
BT	2626.6	0.0	257.0	2626.6	0.0	257.0	2626.5	0.0	308.0	2630.5	1400
BT	0.0	320.0	2634.0	0.0	353.0	2640.7	0.0	0.0	0.0	0.0	1405
NC	0.130	0.110	0.045	0.0	0.8						1410
X1	2.90	0.	0.	0.	15.	15.	15.	0.0	0.0	0.	1415
QT	5.	1440.	2525.	3110.	4845.	3110.	0.	0.	0.	0.	1420
NC	0.150	0.150	0.055	0.0	0.0						1425
X1	2.95	0.	0.	0.	260.	260.	260.	0.0	2.50	0.	1430
QT	5.	1370.	2395.	2955.	4595.	2955.	0.	0.	0.	0.	1435
NC	0.160	0.160	0.060	0.0	0.8						1440
X1	3.05	0.	0.	0.	490.	490.	490.	0.0	6.10	0.	1445
QT	5.	1260.	2195.	2705.	4195.	2705.	0.	0.	0.	0.	1450
NC	0.100	0.130	0.045	0.0	0.5						1455
X1	3.20	17.	275.	304.	800.	800.	800.	0.0	-1.20	0.	1460
GR	2666.2	24.	2651.7	38.	2652.6	44.	2653.0	65.	2649.6	88.	1465
GR	2649.4	175.	2649.8	275.	2647.5	280.	2646.5	286.	2646.5	292.	1470
GR	2645.9	300.	2647.7	304.	2650.5	320.	2651.8	325.	2652.7	362.	1475

H01

```
GR 2658.7   373.  2661.0   393.    0.0     0.    0.0     0.    0.0     0.   1480


X1   3.21     0.     0.      0.    60.     60.    60.    0.0   1.20     0.   1485
X3     10.    0.0    0.0     0.    0.0      0.    0.0 2649.7 2652.9          1490
SB   1.25    1.60   3.00     0.   20.00   0.20   85.00   0.0 2645.9 2645.9  1495

X1   3.21     0.     0.      0.    13.     13.    13.    0.0   0.0      0.   1500
X2      0.    0.0     1.  2650.2 2650.2   0.0     0.    0.0   0.0      0.   1505
X3     10.    0.0    0.0     0.    0.0      0.    0.0 2650.2 2653.4          1510
BT   12.0    24.0 2666.2    0.0   36.0  2653.9    0.0   65.0 2653.9    0.0  1515
BT  119.0  2650.2    0.0   230.0 2650.5    0.0  279.0 2652.5   0.0    279.0  1520
BT 2654.0     0.0  300.0  2654.3   0.0   300.0 2653.1    0.0 372.0  2658.3  1525
BT    0.0   373.0 2658.7    0.0   393.0 2661.0    0.0   0.0   0.0      0.0  1530
NC  0.110   0.130  0.045    0.0     0.0                                      1535

X1   3.21    17.   275.    304.    15.     15.    15.    0.0   1.00     0.   1540
GR 2666.2    24.  2651.7   38.  2652.6    44.  2653.0    65. 2649.6    88.  1545
GR 2649.4   175.  2649.8  275.  2647.5   280.  2646.5   286. 2646.5   292.  1550
GR 2645.9   300.  2647.7  304.  2650.5   320.  2651.8   325. 2652.7   362.  1555
GR 2658.7   373.  2661.0  393.    0.0     0.    0.0     0.    0.0     0.   1560
QT      5.  1135.  1970.  2420.  3745.  2420.     0.     0.     0.     0.   1565
NC  0.130  0.150  0.045    0.0     0.0                                      1570

X1   3.39    15.   329.    375.   970.    970.   970.    0.0   0.0      0.   1575
GR 2683.2    24.  2676.7   33.  2677.6    38.  2677.1    58. 2677.1    75.  1580
GR 2673.0    91.  2669.2  145.  2666.6   210.  2663.4   315. 2663.4   329.  1585
GR 2660.0   337.  2660.5  345.  2660.5   357.  2665.0   375. 2683.5   415.  1590
EJ                                                                          1595
```

```
*PROF 1

CCHV=  0.100 CEIV=  0.500
*SECNO .120
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
   BALD CREEK                  10 YR FLOOD          11/11/81
   MILE        Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV        CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH       WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE       WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

      0.12     2625.         0.      1986.        639.      0.64          0        375.
   2483.64      0.0          0.       270.        496.      0.50          0     2486.50
      7.24      0.0         0.0       7.36       1.29       0.0    2484.28     2481.70
  0.005784      0.0        0.120      0.045      0.120       0.0      -0.00      105.63
            2476.40           0.         0.         0.       22.        354.     481.10          0.

*SECNO .120

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2486.90 ELREA=     2483.50

      0.12     2625.         0.      1907.        718.      0.65          3        370.
   2483.90      0.0          0.       252.        584.      0.01          0     2479.00
      7.50      0.0         0.0       7.58       1.23       0.27   2484.56     2481.70
  0.003653      0.039      0.110      0.040      0.110       0.01     -0.00      118.00
            2476.40          60.        60.        60.       20.        351.     488.00          1.


SPECIAL BRIDGE

SB     HK         XKOR       COFQ      RDLEN      BWC        BWP       BAREA       SS
       1.25       1.60       3.00        0.0      33.00       0.50     263.00       0.0
     ELCHU      ELCHD
   2475.80    2475.80

*SECNO .120

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

     EGPRS      EGLWC         H3      QWEIR       QPR       BAREA      TAREA       ELLC
   2486.38    2485.61       0.04       574.      2046.       263.       263.    2483.90

     ELTRD
   2484.00


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2487.40 ELREA=     2484.00

      0.12     2625.         0.      1572.       1053.      0.26          2        402.
   2485.14      0.0          0.       300.       1015.     -0.39          0     2479.00
      8.74      0.0         0.0       5.24       1.04       0.85   2485.41     2481.70
  0.001382      0.039      0.110      0.040      0.110       0.0      -0.00      118.00
            2476.40          28.        28.        28.       20.        382.     519.93          2.
```

```
*SECNO .120
    0.12     2625.        0.      1564.     1061.      0.18         2      421.
 2485.25      0.0         0.       356.     1052.     -0.08         0   2486.50
    8.85      0.0       0.0       4.39      1.01      0.02   2485.43   2481.70
0.001255    0.039     0.110      0.040     0.110      0.01     -0.00    101.34
          2476.40       15.        15.       15.       26.      395.    522.55      2.

*SECNO .260

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

    BALD CREEK                      10 YR FLOOD         11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    0.26     2600.        0.      2192.      408.      1.07        20      360.
 2488.90  2488.90         0.       243.      326.      0.89        19   2492.30
    6.70      0.0       0.0       9.03      1.25      1.49   2489.97   2487.50
0.007639    0.040     0.110      0.040     0.110      0.44     -0.00    107.07
          2482.20      590.       590.      590.       20.      340.    467.25     16.

*SECNO .390

3301 HV CHANGED MORE THAN HVINS

    0.39     2595.      941.      1646.        8.      0.40         3      479.
 2492.10      0.0       836.       259.       11.     -0.67         0   2489.70
    7.80      0.0       1.13       6.35      0.76      2.46   2492.50   2489.30
0.002590    0.040     0.110      0.040     0.120      0.07     -0.00    185.26
          2484.30      595.       595.      595.      451.       27.    663.86     27.

*SECNO .390

*** GR CARDS REPEATED
    0.39     2595.      988.      1598.        9.      0.35         2      483.
 2492.25      0.0       901.       265.       12.     -0.05         0   2489.70
    7.95      0.0       1.10       6.03      0.73      0.10   2492.60   2489.30
0.002263    0.040     0.110      0.040     0.120      0.01     -0.00    180.88
          2484.30       40.        40.       40.      456.       28.    664.29     28.


SPECIAL BRIDGE

SB     HK          XKOR       COFQ       RDLEN      BWC        BWP       BAREA       SS
    1.25       1.60       3.00       0.0       25.00      0.50     130.00      0.0
   ELCHU      ELCHD
 2484.30    2484.30
```

*SECNO .390

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2492.60 HIGHER THAN COMPUTED ENERGY OF 2492.41
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2502.15	2492.62	0.02	2264.	332.	130.	130.	2489.60

ELTRD
2489.70

0.39	2595.	989.	1597.	9.	0.35	2	484.	
2492.25	0.0	903.	265.	12.	-0.00	0	2489.70	
7.95	0.0	1.10	6.02	0.73	0.0	2492.60	2489.30	
0.002257	0.040	0.110	0.040	0.120	0.0	-0.00	180.79	
	2484.30	12.	12.	12.	456.	28.	664.30	28.

CCHV= 0.100 CEHV= 0.800
*SECNO .400

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.40	2595.	555.	2035.	5.	1.03	2	448.	
2492.83	2492.83	432.	221.	5.	0.68	9	2491.40	
6.83	0.0	1.29	9.19	1.10	0.18	2493.86	2491.00	
0.006687	0.040	0.110	0.040	0.100	0.54	-0.00	213.35	
	2486.00	50.	50.	50.	423.	25.	661.14	30.

CCHV= 0.100 CEHV= 0.500
*SECNO .790

BALD CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

0.79	2470.	0.	1745.	725.	1.03	4	296.	
2507.96	2507.95	0.	182.	408.	-0.01	5	2509.70	
6.86	0.0	0.0	9.60	1.78	15.12	2508.98	2506.70	
0.008871	0.040	0.110	0.040	0.110	0.00	-0.00	186.39	
	2501.10	1980.	1980.	1980.	17.	279.	482.03	58.

```
CCHV=   0.100 CEHV=   0.800
*SECNO .790

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2516.70 ELREA=     2517.00

     0.79      2470.        0.      2470.        0.      0.66         2       82.
  2508.76       0.0         0.       380.        0.     -0.37         0     2513.30
     7.56       0.0        0.0       6.50       0.0     0.40       2509.42   2506.60
 0.003192       0.040      0.110     0.035      0.110   0.04         -0.00     148.00
             2501.20        80.       80.        80.     41.          41.     230.00        59.


SPECIAL BRIDGE

SB     HK         XKOR       COFQ      RDLEN      BWC       BWP      BAREA       SS
      1.25        1.60       3.00       0.0      64.00      0.50     838.00      0.0
    ELCHU      ELCHD
  2501.20    2501.20

CCHV=   0.100 CEHV=   0.500
*SECNO .790

*** GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.=   2508.75 BRIDGE VELOCITY=,       5.15
     CALCULATED CHANNEL AREA=,      480.
     EGPRS      EGLWC         H3      QWEIR       QPR      BAREA      TAREA      ELLC
       0.0    2509.43        0.02        0.      2470.      838.       838.    2514.40

    ELTRD
  2517.20


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2517.20 ELREA=     2517.50

     0.79      2470.        0.      2470.        0.      0.65         0       82.
  2508.78       0.0         0.       382.        0.     -0.01         0     2513.30
     7.58       0.0        0.0       6.47       0.0     0.01       2509.43   2506.60
 0.003152       0.040      0.110     0.035      0.110   0.0          0.0      148.00
             2501.20        20.       20.        20.     41.          41.     230.00        59.


CCHV=   0.100 CEHV=   0.800
*SECNO .800
    BALD CREEK                    10 YR FLOOD          11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     0.80      2470.        0.      1710.       760.      0.94         20       297.
  2510.41    2510.41        0.       184.       422.      0.29         10     2512.10
     6.91       0.0        0.0       9.30       1.80      0.21       2511.35    2509.10
```

0.010402	0.040	0.100	0.045	0.120	0.23	-0.00	186.31	
	2503.50	40.	40.	40.	17.	280.	483.26	59.

*SECNO 1.170

1.17	2345.	761.	1581.	3.	0.52	6	487.	
2525.21	0.0	577.	226.	7.	-0.43	0	2523.80	
6.91	0.0	1.32	6.98	0.52	14.33	2525.73	2524.30	
0.005089	0.040	0.100	0.040	0.120	0.04	-0.00	278.30	
	2518.30	2015.	2015.	2015.	447.	40.	765.54	92.

*SECNO 1.490

3301 HV CHANGED MORE THAN HVINS

BALD CREEK			10 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.49	2240.	89.	2118.	33.	1.68	3	127.	
2539.54	2539.54	56.	198.	29.	1.16	11	2537.70	
6.54	0.0	1.57	10.68	1.15	11.70	2541.22	2538.90	
0.010297	0.040	0.100	0.040	0.120	0.93	-0.00	90.32	
	2533.00	1680.	1680.	1680.	74.	52.	216.97	113.

*SECNO 1.570

1.57	2210.	143.	2008.	58.	1.25	4	128.	
2544.95	2544.54	79.	214.	42.	-0.43	5	2542.70	
6.95	0.0	1.82	9.39	1.38	4.93	2546.19	2543.90	
0.009088	0.040	0.100	0.045	0.120	0.04	-0.00	89.40	
	2538.00	510.	510.	510.	75.	53.	217.66	117.

*SECNO 1.580

*** GR CARDS REPEATED

1.58	2210.	218.	1896.	96.	0.82	3	131.	
2545.69	0.0	121.	243.	68.	-0.43	0	2542.70	
7.69	0.0	1.81	7.80	1.41	0.27	2546.51	2543.90	
0.005298	0.040	0.100	0.045	0.120	0.04	-0.00	87.72	
	2538.00	40.	40.	40.	77.	54.	218.94	117.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	19.00	0.01	120.00	0.0
	ELCHU	ELCHD						
	2537.50	2537.50						

*SECNO 1.580

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2546.57	2546.32	0.00	1494.	715.	120.	120.	2543.80	
ELTRD								
2543.40								
1.58	2210.	229.	1880.	101.	0.77	3	132.	
2545.81	0.0	128.	248.	72.	-0.05	0	2542.70	
7.81	0.0	1.80	7.59	1.41	0.06	2546.57	2543.90	
0.004892	0.040	0.100	0.045	0.120	0.0	-0.00	87.45	
	2538.00	12.	12.	12.	77.	55.	219.14	117.

CCHV= 0.100 CEHV= 0.800
*SECNO 1.580

1.58	2210.	198.	1907.	106.	0.79	0	132.	
2545.85	0.0	130.	249.	74.	0.02	0	2542.70	
7.85	0.0	1.52	7.64	1.43	0.05	2546.64	2543.90	
0.004910	0.040	0.120	0.045	0.120	0.02	-0.00	87.34	
	2538.00	10.	10.	10.	77.	55.	219.22	117.

*SECNO 1.750

3301 HV CHANGED MORE THAN HVINS

BALD CREEK			10 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.75	2150.	36.	2083.	31.	1.99	14	95.	
2557.82	2557.82	19.	181.	28.	1.20	9	2556.00	
7.42	0.0	1.86	11.50	1.08	6.98	2559.81	2556.60	
0.014742	0.041	0.120	0.045	0.120	0.96	-0.00	115.08	
	2550.40	890.	890.	890.	32.	64.	210.54	124.

CCHV= 0.100 CEHV= 0.500
*SECNO 1.760

*** GR CARDS REPEATED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2561.70 ELREA= 2559.90

1.76	2150.	0.	2150.	0.	1.60	2	34.	
2558.71	0.0	0.	212.	0.	-0.39	0	2556.00	
8.31	0.0	0.0	10.15	0.0	0.46	2560.31	2556.60	
0.009326	0.041	0.120	0.045	0.120	0.04	-0.00	130.00	
	2550.40	40.	40.	40.	17.	17.	164.00	125.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	31.00	0.50	345.00	0.0

ELCHU	ELCHD
2550.00	2550.00

*SECNO 1.760

*** GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.= 2558.67 BRIDGE VELOCITY=, 8.13
CALCULATED CHANNEL AREA=, 264.

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
0.0	2560.40	0.16	0.	2150.	345.	345.	2561.30

ELTRD
2560.40

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2562.20 ELREA= 2560.40

1.76	2150.	0.	2150.	0.	1.52	0	34.	
2558.87	0.0	0.	217.	0.	-0.07	0	2556.00	
8.47	0.0	0.0	9.91	0.0	0.09	2560.40	2556.60	
0.008611	0.041	0.120	0.045	0.120	0.0	0.0	130.00	
	2550.40	12.	12.	12.	17.	17.	164.00	125.

CCHV= 0.100 CEHV= 0.800
*SECNO 1.760

3301 HV CHANGED MORE THAN HVINS

1.76	2150.	83.	1822.	245.	0.71	4	150.	
2559.83	0.0	58.	249.	187.	-0.82	0	2556.00	
9.43	0.0	1.43	7.30	1.31	0.06	2560.53	2556.60	
0.003885	0.041	0.130	0.045	0.120	0.08	-0.00	101.86	
	2550.40	10.	10.	10.	45.	105.	251.79	125.

*SECNO 1.990

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.99	2075.	279.	1796.	0.	1.30	3	178.	
2568.22	2568.22	184.	183.	0.	0.60	14	2566.10	
6.52	0.0	1.52	9.82	0.0	6.95	2569.52	2568.60	

0.011924	0.041	0.130	0.045	0.130	0.48	-0.00	288.91	
	2561.70	1115.	1115.	1115.	160.	19.	467.25	136.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.000

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2570.00 ELREA= 2571.70

2.00	2075.	0.	2075.	0.	0.53	3	86.	
2569.50	0.0	0.	356.	0.	-0.77	0	2567.90	
6.30	0.0	0.0	5.84	0.0	0.43	2570.03	2570.50	
0.004745	0.041	0.130	0.045	0.130	0.08	-0.00	405.00	
	2563.20	60.	60.	60.	45.	41.	490.57	136.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	30.00	1.10	400.00	4.40

ELCHU	ELCHD
2563.70	2563.70

CCHV= 0.100 CEHV= 0.500
*SECNO 2.000

*** GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.= 2569.46 BRIDGE VELOCITY= 6.64
CALCULATED CHANNEL AREA= 312.

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
0.0	2570.06	0.04	0.	2075.	400.	400.	2570.50

ELTRD
2570.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2570.50 ELREA= 2572.20

2.00	2075.	0.	2075.	0.	0.52	0	86.	
2569.54	0.0	0.	359.	0.	-0.01	0	2567.90	
6.34	0.0	0.0	5.78	0.0	0.03	2570.06	2570.50	
0.004603	0.041	0.130	0.045	0.130	0.0	-0.00	405.00	
	2563.20	26.	26.	26.	45.	41.	490.76	136.

*SECNO 2.000

```
*** GR CARDS REPEATED
      2.00     2075.        110.      1965.         0.       0.41          2      203.
   2569.72      0.0         135.       374.         0.      -0.11          0   2567.90
      6.52      0.0         0.81       5.25        0.0       0.05    2570.12    2570.50
  0.002872     0.041       0.110      0.040      0.110       0.01      -0.00     288.92
             2563.20         15.        15.        15.       161.        42.     491.55       137.

*SECNO 2.180

3301 HV CHANGED MORE THAN HVINS

    BALD CREEK                      10 YR FLOOD          11/11/81
   MILE        Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV        CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH       WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE       WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      2.18     1975.        116.      1652.       207.       1.34         20      192.
   2581.74   2581.74         86.       163.       131.       0.93         11   2580.30
      7.94      0.0         1.34      10.14       1.58       4.26    2583.08    2580.10
  0.008344     0.041       0.110      0.040      0.120       0.47      -0.00     232.15
             2573.80        945.       945.       945.        97.        94.     423.70       146.

*SECNO 2.190

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

      2.19     1975.        221.      1451.       303.       0.68          4      227.
   2582.69      0.0         180.       188.       209.      -0.66          0   2580.30
      8.89      0.0         1.22       7.70       1.45       0.22    2583.37    2580.10
  0.003968     0.041       0.110      0.040      0.120       0.07      -0.00     200.83
             2573.80         40.        40.        40.       129.        98.     427.34       147.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    2581.53 ,NOT    2582.69
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK         XKOR        COFQ       RDLEN      BWC        BWP       BAREA        SS
      1.25        1.60        3.00        0.0       14.00       0.20      80.00        0.0
   ELCHU       ELCHD
   2573.80     2573.80

*SECNO 2.190

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2583.37 HIGHER THAN COMPUTED ENERGY OF 2583.01
    BALD CREEK                      10 YR FLOOD          11/11/81
   MILE        Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
```

E02

ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2597.83	2584.25	0.0	1685.	288.	80.	80.	2579.60

ELTRD
2580.00

2.19	1975.	223.	1447.	305.	0.68	2	227.	
2582.69	0.0	183.	189.	210.	-0.01	0	2580.30	
8.89	0.0	1.22	7.66	1.45	0.0	2583.37	2580.10	
0.003913	0.041	0.110	0.040	0.120	0.0	-0.00	200.22	
	2573.80	12.	12.	12.	129.	98.	427.41	147.

*SECNO 2.190

*** GR CARDS REPEATED

2.19	1975.	267.	1333.	375.	0.50	2	232.	
2582.92	0.0	209.	195.	229.	-0.17	0	2580.30	
9.12	0.0	1.28	6.84	1.64	0.04	2583.43	2580.10	
0.003782	0.041	0.110	0.045	0.110	0.02	-0.00	196.54	
	2573.80	10.	10.	10.	133.	99.	428.27	147.

*SECNO 2.270

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.27	1920.	7.	1805.	108.	1.64	20	133.	
2585.91	2585.91	11.	170.	61.	1.14	14	2585.40	
6.11	0.0	0.64	10.60	1.76	2.20	2587.55	2584.30	
0.013791	0.041	0.110	0.045	0.110	0.57	-0.00	244.56	
	2579.80	340.	340.	340.	60.	73.	377.23	150.

*SECNO 2.270

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

2.27	1920.	134.	1563.	223.	0.65	4	272.	
2587.30	0.0	148.	219.	160.	-0.99	0	2585.40	

7.50	0.0	0.90	7.14	1.40	0.29	2587.95	2584.30	
0.004490	0.041	0.110	0.045	0.110	0.10	-0.00	137.65	
	2579.80	40.	40.	40.	167.	105.	409.92	151.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.01	75.00	0.0

ELCHU	ELCHD
2580.00	2580.00

*SECNO 2.270

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2603.58	2587.95	0.00	1535.	386.	75.	75.	2585.00

ELTRD
2585.00

2.27	1920.	139.	1556.	225.	0.64	3	273.	
2587.32	0.0	153.	220.	162.	-0.01	0	2585.40	
7.52	0.0	0.91	7.08	1.39	0.01	2587.95	2584.30	
0.004388	0.041	0.110	0.045	0.110	0.0	-0.00	137.55	
	2579.80	12.	12.	12.	167.	106.	410.56	151.

*SECNO 2.270

*** GR CARDS REPEATED

BALD CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.27	1920.	36.	1699.	185.	1.12	4	189.	
2587.14	2586.63	45.	189.	93.	0.48	11	2586.10	
6.64	0.0	0.81	9.00	1.98	0.06	2588.25	2585.00	
0.008669	0.041	0.110	0.045	0.090	0.24	-0.00	200.95	
	2580.50	10.	10.	10.	104.	85.	389.69	151.

*SECNO 2.430

2.43	1810.	259.	1545.	6.	0.88	6	265.	
2593.61	2593.28	192.	190.	14.	-0.23	5	2592.20	
7.11	0.0	1.35	8.15	0.44	6.21	2594.49	2593.40	
0.008588	0.041	0.120	0.045	0.110	0.02	-0.00	313.45	
	2586.50	720.	720.	720.	182.	84.	578.85	157.

*SECNO 2.430

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

2.43	1810.	504.	1227.	79.	0.32	3	301.	
2594.51	0.0	353.	226.	73.	-0.56	0	2592.20	
8.01	0.0	1.43	5.44	1.08	0.29	2594.83	2593.40	
0.003031	0.041	0.090	0.045	0.080	0.06	-0.00	281.18	
—	2586.50	60.	60.	60.	214.	87.	582.45	158.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	18.00	0.30	110.00	0.0

ELCHU	ELCHD
2586.30	2586.30

*SECNO 2.430

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2601.24	2594.85	0.01	1057.	754.	110.	110.	2592.50

ELTRD
2593.50

2.43	1810.	637.	1022.	151.	0.14	2	342.	
2595.54	0.0	572.	267.	144.	-0.18	0	2592.20	
9.04	0.0	1.11	3.83	1.05	0.85	2595.68	2593.40	
0.001203	0.041	0.090	0.045	0.080	0.0	-0.00	244.25	
	2586.50	12.	12.	12.	251.	92.	586.58	158.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.440

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.44	1810.	205.	1605.	0.	1.14	3	189.	
2596.08	2596.08	141.	176.	0.	1.01	16	2595.00	
6.78	0.0	1.45	9.10	0.0	0.04	2597.22	2596.20	
0.011706	0.041	0.110	0.045	0.080	0.81	-0.00	325.38	
	2589.30	15.	15.	15.	170.	20.	514.73	158.

*SECNO 2.580

*** GR CARDS REPEATED
BALD CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
2.58	1700.	134.	1566.	0.	1.22	4	183.	
2605.12	2605.12	117.	170.	0.	0.07	8	2604.20	
6.62	0.0	1.15	9.21	0.0	9.04	2606.33	2605.40	
0.012442	0.042	0.130	0.045	0.130	0.06	-0.00	331.13	
	2598.50	750.	750.	750.	164.	19.	514.38	163.

*SECNO 2.730

3301 HV CHANGED MORE THAN HVINS

2.73	1595.	570.	988.	37.	0.58	5	313.	
2613.26	0.0	384.	129.	35.	-0.64	0	2611.40	
6.46	0.0	1.48	7.67	1.06	7.45	2613.84	2611.40	
0.007360	0.042	0.120	0.045	0.140	0.06	-0.00	366.06	
	2606.80	785.	785.	785.	270.	43.	679.10	171.

CCHV= 0.100 CEHV= 0.500
*SECNO 2.730

*** GR CARDS REPEATED

2.73	1595.	670.	878.	47.	0.34	2	344.	
2613.74	0.0	514.	141.	51.	-0.23	0	2611.40	
6.94	0.0	1.30	6.24	0.92	0.22	2614.09	2611.40	
0.004325	0.042	0.120	0.045	0.140	0.02	-0.00	341.12	
	2606.80	40.	40.	40.	295.	48.	684.97	171.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.00	0.50	78.00	0.0
ELCHU	ELCHD							
2606.80	2606.80							

*SECNO 2.730

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2614.09 HIGHER THAN COMPUTED ENERGY OF 2613.89
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2624.13	2614.11	0.02	1407.	188.	78.	78.	2610.60

ELTRD
2611.30

```
       2.73     1595.      670.      877.       47.      0.34         2      344.
    2613.74      0.0       514.      141.       51.     -0.00         0   2611.40
       6.94      0.0       1.30      6.23      0.92      0.0    2614.09   2611.40
   0.004314     0.042     0.120     0.045     0.140      0.0      -0.00    340.99
            2606.80        12.       12.       12.      296.        49.    685.00       172.

*SECNO 2.730

*** GR CARDS REPEATED
       2.73     1595.      680.      870.       45.      0.33         1      347.
    2613.80      0.0       528.      142.       53.     -0.01         0   2611.40
       7.00      0.0       1.29      6.13      0.85      0.04   2614.13   2611.40
   0.004124     0.042     0.120     0.045     0.150      0.00     -0.00    338.58
            2606.80        10.       10.       10.      298.        49.    685.57       172.

CCHV=   0.100 CEHV=   0.800
*SECNO 2.800

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

    BALD CREEK                      10 YR FLOOD           11/11/81
    MILE       Q          QLOB      QCH        QROB      HV        ITRIAL     TOPWID
    ELEV       CRIWS      ALOB      ACH        AROB      DHV       IDC        BANK ELEV
    DEPTH      WSELK      VLOB      VCH        VROB      HL        EG      LEFT/RIGHT
    SLOPE      WTN        XNL       XNCH       XNR       OLOSS     CORAR      SSTA
               ELMIN      XLOBL     XLCH       XLOBR     WSDL      WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
       2.80     1550.      446.     1072.       32.      0.89         5      286.
    2617.55   2617.55      282.      118.       24.      0.56         9   2616.10
       6.05      0.0       1.58      9.05      1.35      2.87   2618.44   2616.10
   0.020386     0.042     0.160     0.060     0.160      0.45     -0.00    387.68
            2611.50       370.      370.      370.      249.        38.    674.02       177.

CCHV=   0.100 CEHV=   0.800
*SECNO 2.890
       2.89     1475.       19.     1419.       38.      0.65         5      141.
    2624.81      0.0        31.      214.       36.     -0.24         0   2623.80
       6.31      0.0       0.59      6.62      1.04      7.00   2625.47   2623.20
   0.010054     0.043     0.160     0.060     0.160      0.02     -0.00    152.96
            2618.50       500.      500.      500.       86.        55.    293.76       181.

*SECNO 2.900

*** GR CARDS REPEATED
       2.90     1475.        2.     1458.       15.      0.96         2      100.
    2625.47      0.0         4.      184.       17.      0.31         0   2625.10
       5.67      0.0       0.40      7.91      0.89      0.72   2626.43   2624.50
   0.014758     0.043     0.150     0.055     0.140      0.24     -0.00    192.05
            2619.80        60.       60.       60.       46.        53.    291.59       181.
```

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	23.00	0.01	120.00	0.0

ELCHU	ELCHD
2619.80	2619.80

CCHV= 0.100 CEHV= 0.500
*SECNO 2.900

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2629.23	2626.58	0.00	282.	1191.	120.	120.	2625.00

ELTRD
2626.20

2.90	1475.	124.	1257.	94.	0.27	2	224.	
2627.65	0.0	169.	277.	82.	-0.69	0	2625.30	
7.65	0.0	0.73	4.53	1.15	1.49	2627.92	2624.70	
0.001884	0.043	0.100	0.045	0.100	0.0	-0.00	73.85	
	2620.00	12.	12.	12.	165.	60.	298.31	181.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.900

*** GR CARDS REPEATED

2.90	1475.	100.	1287.	89.	0.29	2	225.	
2627.67	0.0	173.	278.	83.	0.02	0	2625.30	
7.67	0.0	0.58	4.62	1.07	0.03	2627.96	2624.70	
0.001949	0.043	0.130	0.045	0.110	0.01	-0.00	73.78	
	2620.00	15.	15.	15.	165.	60.	298.39	181.

*SECNO 2.950

*** GR CARDS REPEATED

BALD CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.95	1440.	9.	1404.	27.	0.73	2	124.	
2628.55	0.0	18.	202.	28.	0.44	0	2627.80	
6.05	0.0	0.52	6.94	0.95	0.97	262[illegible].28	2627.20	
0.010042	0.043	0.150	0.055	0.150	0.35	-[illegible].00	168.71	
	2622.50	260.	260.	260.	70.	54.	292.89	184.

```
CCHV=   0.100 CEHV=   0.800
*SECNO 3.050

*** GR CARDS REPEATED
     3.05     1370.        2.     1352.       15.      0.80         3      104.
  2634.34      0.0         6.      187.       19.      0.07         0     2633.90
     5.74      0.0        0.41     7.21      0.82      5.80      2635.14   2633.30
 0.014306     0.044      0.160    0.060     0.160     0.05       -0.00     188.15
             2628.60      490.     490.      490.      50.        53.      291.81      186.


CCHV=   0.100 CEHV=   0.500
*SECNO 3.200
    BALD CREEK                          10 YR FLOOD          11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     3.20     1260.       360.      859.       40.      0.66         14      240.
  2649.51  2649.51        221.      110.       26.     -0.13         10     2648.60
     4.81      0.0        1.63      7.84      1.55      9.57      2650.18   2646.50
 0.010006     0.044      0.100    0.045     0.130     0.01       -0.00      80.48
             2644.70      800.     800.      800.      209.        31.      320.82      192.

*SECNO 3.210

*** GR CARDS REPEATED
    BALD CREEK                          10 YR FLOOD          11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2649.70 ELREA=     2652.90

     3.21     1260.       364.      896.        0.      0.76         20      223.
  2650.68  2650.68        215.      109.        0.      0.10          5     2649.80
     4.78      0.0        1.69      8.24       0.0      0.63      2651.44   2647.70
 0.011177     0.044      0.100    0.045     0.130     0.05       -0.00      80.69
             2645.90       60.      60.       60.       209.        15.      304.00      192.


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    2650.48 ,NOT    2650.68
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK        XKOR       COFQ      RDLEN      BWC       BWP      BAREA       SS
     1.25      1.60       3.00       0.0       20.00      0.20      85.00       0.0
```

ELCHU	ELCHD
2645.90	2645.90

*SECNO 3.210

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2656.14	2652.26	0.0	693.	575.	85.	85.	2650.20

ELTRD
2650.20

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2650.20 ELREA= 2653.40

3.21	1260.	541.	719.	0.	0.27	2	229.	
2651.55	0.0	388.	134.	0.	-0.49	0	2649.80	
5.65	0.0	1.39	5.36	0.0	0.38	2651.82	2647.70	
0.003575	0.044	0.100	0.045	0.130	0.0	-0.00	74.76	
	2645.90	13.	13.	13.	215.	15.	304.00	192.

*SECNO 3.210

3301 HV CHANGED MORE THAN HVINS

BALD CREEK			10 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.21	1260.	322.	897.	41.	0.77	20	240.	
2651.66	2651.66	210.	108.	25.	0.51	9	2650.80	
4.76	0.0	1.54	8.31	1.62	0.09	2652.43	2648.70	
0.011472	0.044	0.110	0.045	0.130	0.25	-0.00	80.86	
	2646.90	15.	15.	15.	209.	31.	320.60	192.

*SECNO 3.390

3.39	1135.	32.	1103.	0.	1.08	6	89.	
2664.36	2664.20	29.	130.	0.	0.31	11	2663.40	
4.36	0.0	1.12	8.47	0.0	12.86	2665.44	2665.00	
0.015775	0.044	0.130	0.045	0.150	0.15	-0.00	283.57	
	2660.00	970.	970.	970.	68.	20.	372.43	198.

THIS RUN EXECUTED 11/11/81 7:49:08

```
**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
**************************************************

T1      YANCEY CO NC FEMA STUDY                                          1600
T2      50 YR FLOOD                                                      1605
T3     BALD CREEK                                                        1610

J1  ICHECK    INQ    NINV    IDIR    STRT  METRIC   HVINS     Q      WSEL    FQ
         0.     3.      0.      0. 0.00582      0.    0.0      0.     0.0    0.0    1615

J2  NPROF   IPLOT   PRFVS    XSECV   XSECH      FN   ALLDC     IBW   CHNIM ITRACE
         2.     0.     -1.      0.      0.     0.0     0.0      0.      0.      0.    1620
```

*PROF 2

CCHV= 0.100 CEHV= 0.500
*SECNO .120
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

ALD CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.12	4645.	0.	2825.	1820.	0.66	0	414.	
2485.00	0.0	0.	342.	961.	0.50	0	2486.50	
8.60	0.0	0.0	8.25	1.89	0.0	2485.66	2481.70	
0.005813	0.0	0.120	0.045	0.120	0.0	-0.00	102.00	
	2476.40	0.	0.	0.	25.	389.	516.13	0.

*SECNO .120

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2486.90 ELREA= 2483.50

0.12	4645.	0.	2750.	1895.	0.78	2	404.	
2485.23	0.0	0.	304.	1047.	0.11	0	2479.00	
8.83	0.0	0.0	9.06	1.81	0.29	2486.01	2481.70	
0.004071	0.039	0.110	0.040	0.110	0.06	-0.00	118.00	
	2476.40	60.	60.	60.	20.	385.	522.17	2.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2483.50 ,NOT 2485.23
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	33.00	0.50	263.00	0.0

ELCHU	ELCHD
2475.80	2475.80

*SECNO .120

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2492.98	2486.37	0.0	2537.	2131.	263.	263.	2483.90

ELTRD
2484.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2487.40 ELREA= 2484.00

0.12	4645.	0.	2367.	2278.	0.37	2	430.	
2486.49	0.0	0.	353.	1527.	-0.40	0	2479.00	
10.09	0.0	0.0	6.71	1.49	0.86	2486.86	2481.70	

```
 0.001827     0.039      0.110     0.040     0.110      0.0      -0.00     118.00
            2476.40       28.       28.       28.       20.      410.     547.60        3.

*SECNO .120
     0.12     4645.         1.     2381.     2263.      0.25         2      474.
  2486.65      0.0          4.      437.     1587.     -0.12         0   2486.50
    10.25      0.0        0.15      5.45      1.43      0.03   2486.90   2481.70
 0.001594     0.039      0.110     0.040     0.110      0.01     -0.00     73.82
            2476.40        15.       15.       15.       54.      420.    547.91        4.

*SECNO .250

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

    ALD CREEK                    50 YR FLOOD          11/11/81
   MILE       Q         QLOB      QCH       QROB      HV        ITRIAL     TOPWID
   ELEV       CRIWS     ALOB      ACH       AROB      DHV       IDC        BANK ELEV
   DEPTH      WSELK     VLOB      VCH       VROB      HL        EG       LEFT/RIGHT
   SLOPE      WTN       XNL       XNCH      XNR       OLOSS     CORAR      SSTA
              ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR       ENDST      VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     0.26     4620.         0.     3150.     1470.      1.16        20      394.
  2490.09   2490.09         0.      304.      715.      0.90        14   2492.30
     7.89      0.0         0.0     10.35      2.06      1.80   2491.25   2487.50
 0.008069     0.040      0.110     0.040     0.110      0.45     -0.00    103.88
            2482.20       590.      590.      590.       24.      371.    498.00       24.

*SECNO .390

3301 HV CHANGED MORE THAN HVINS

     0.39     4590.      2265.     2295.       30.      0.44         3      538.
  2493.46      0.0       1454.      313.       32.     -0.72         0   2489.70
     9.16      0.0        1.56      7.34      0.95      2.58   2493.90   2489.30
 0.002695     0.040      0.110     0.040     0.120      0.07     -0.00    145.51
            2484.30       595.      595.      595.      491.       47.    683.57       43.

*SECNO .390

*** GR CARDS REPEATED
     0.39     4590.      2311.     2246.       33.      0.40         2      545.
  2493.61      0.0       1523.      318.       36.     -0.04         0   2489.70
     9.31      0.0        1.52      7.06      0.90      0.10   2494.01   2489.30
 0.002431     0.040      0.110     0.040     0.120      0.00     -0.00    141.27
            2484.30        40.       40.       40.      495.       50.    686.38       45.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2493.38 ,NOT   2493.61
```

HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	25.00	0.50	130.00	0.0

ELCHU	ELCHD
2484.30	2484.30

*SECNO .390

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2494.01 HIGHER THAN COMPUTED ENERGY OF 2493.82.
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2524.58	2496.62	0.0	4219.	374.	130.	130.	2489.60

ELTRD
2489.70

0.39	4590.	2312.	2245.	33.	0.40	2	545.	
2493.61	0.0	1525.	318.	36.	-0.00	0	2489.70	
9.31	0.0	1.52	7.05	0.90	0.0	2494.01	2489.30	
0.002427	0.040	0.110	0.040	0.120	0.0	-0.00	141.19	
	2484.30	12.	12.	12.	495.	50.	686.44	46.

CCHV= 0.100 CEHV= 0.800
*SECNO .400

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

ALD CREEK			50 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.40	4590.	1680.	2892.	18.	1.23	2	480.	
2493.83	2493.83	849.	260.	11.	0.83	9	2491.40	
7.83	0.0	1.98	11.11	1.60	0.20	2495.06	2491.00	
0.007878	0.040	0.110	0.040	0.100	0.67	-0.00	184.41	
	2486.00	50.	50.	50.	452.	27.	663.95	47.

CCHV= 0.100 CEHV= 0.500
*SECNO .790

ALD CREEK			50 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

0.79	4360.	0.	2397.	1963.	0.92	2	329.	

2509.42	0.0	0.	237.	809.	-0.31	0	2509.70	
8.32	0.0	0.0	10.12	2.42	15.24	2510.33	2506.70	
0.007517	0.040	0.110	0.040	0.110	0.03	-0.00	184.39	
	2501.10	1980.	1980.	1980.	19.	310.	513.74	97.

CCHV= 0.100 CEHV= 0.800
*SECNO .790

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2516.70 ELREA= 2517.00

0.79	4360.	0.	4360.	0.	1.36	2	82.	
2509.82	0.0	0.	466.	0.	0.44	0	2513.30	
8.62	0.0	0.0	9.35	0.0	0.49	2511.17	2506.60	
0.005112	0.040	0.110	0.035	0.110	0.35	-0.00	148.00	
	2501.20	80.	80.	80.	41.	41.	230.00	98.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	64.00	0.50	838.00	0.0

ELCHU	ELCHD
2501.20	2501.20

CCHV= 0.100 CEHV= 0.500
*SECNO .790

*** GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.= 2509.80 BRIDGE VELOCITY=, 7.99
CALCULATED CHANNEL AREA=, 546.

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
0.0	2511.21	0.06	0.	4360.	838.	838.	2514.40

ELTRD
2517.20

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2517.20 ELREA= 2517.50

0.79	4360.	0.	4360.	0.	1.33	0	82.	
2509.88	0.0	0.	471.	0.	-0.03	0	2513.30	
8.68	0.0	0.0	9.25	0.0	0.03	2511.21	2506.60	
0.004944	0.040	0.110	0.035	0.110	0.0	0.0	148.00	
	2501.20	20.	20.	20.	41.	41.	230.00	98.

CCHV= 0.100 CEHV= 0.800
*SECNO .800

ALD CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.80	4360.	0.	2515.	1845.	1.21	20	320.	
2511.40	2511.40	0.	221.	692.	-0.12	10	2512.10	
7.90	0.0	0.0	11.38	2.67	0.30	2512.61	2509.10	
0.012888	0.040	0.100	0.045	0.120	0.01	-0.00	184.95	
	2503.50	40.	40.	40.	19.	301.	504.82	99.

*SECNO 1.170

3301 HV CHANGED MORE THAN HVINS

1.17	4140.	1955.	2156.	29.	0.48	7	528.	
2526.39	0.0	1085.	286.	35.	-0.72	0	2523.80	
8.09	0.0	1.80	7.53	0.84	14.18	2526.87	2524.30	
0.004331	0.040	0.100	0.040	0.120	0.07	-0.00	256.10	
	2518.30	2015.	2015.	2015.	469.	59.	784.24	152.

*SECNO 1.490

3301 HV CHANGED MORE THAN HVINS

ALD CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.49	3950.	426.	3332.	192.	2.12	3	133.	
2541.21	2541.21	150.	263.	86.	1.64	5	2537.70	
8.21	0.0	2.83	12.67	2.24	10.46	2543.32	2538.90	
0.009931	0.040	0.100	0.040	0.120	1.31	-0.00	86.56	
	2533.00	1680.	1680.	1680.	78.	55.	219.82	189.

*SECNO 1.570

3301 HV CHANGED MORE THAN HVINS

1.57	3900.	521.	3139.	239.	1.60	2	135.	
2546.63	0.0	175.	279.	101.	-0.52	0	2542.70	
8.63	0.0	2.97	11.23	2.36	4.85	2548.23	2543.90	
0.009115	0.040	0.100	0.045	0.120	0.05	-0.00	85.60	
	2538.00	510.	510.	510.	79.	56.	220.55	195.

*SECNO 1.580

*** GR CARDS REPEATED

1.58	3900.	614.	2998.	288.	1.14	3	138.	
2547.43	0.0	223.	311.	131.	-0.46	0	2542.70	
9.43	0.0	2.75	9.65	2.20	0.29	2548.56	2543.90	
0.005850	0.040	0.100	0.045	0.120	0.05	-0.00	83.80	
	2538.00	40.	40.	40.	81.	57.	221.92	196.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	19.00	0.01	120.00	0.0

ELCHU	ELCHD
2537.50	2537.50

*SECNO 1.580

*** GR CARDS REPEATED
PRESS FLOW BECAUSE EGLWC OF 2548.56 EXCEEDS 1.5 DEPTH
6870 D.S. ENERGY OF 2548.56 HIGHER THAN COMPUTED ENERGY OF 2548.35
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2573.67	2548.56	0.00	3131.	734.	120.	120.	2543.80

ELTRD
2543.40

1.58	3900.	616.	2996.	288.	1.13	3	138.	
2547.43	0.0	224.	311.	131.	-0.01	0	2542.70	
9.43	0.0	2.75	9.63	2.20	0.0	2548.56	2543.90	
0.005813	0.040	0.100	0.045	0.120	0.0	-0.00	83.77	
	2538.00	12.	12.	12.	81.	57.	221.94	196.

CCHV= 0.100 CEHV= 0.800
*SECNO 1.580

1.58	3900.	531.	3070.	299.	1.19	1	138.	
2547.48	0.0	227.	313.	133.	0.06	0	2542.70	
9.48	0.0	2.34	9.81	2.24	0.06	2548.67	2543.90	
0.005983	0.040	0.120	0.045	0.120	0.05	-0.00	83.67	
	2538.00	10.	10.	10.	81.	58.	222.02	196.

*SECNO 1.750

3301 HV CHANGED MORE THAN HVINS

ALD CREEK			50 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.75	3795.	162.	3184.	448.	2.09	11	151.	
2559.92	2559.92	61.	252.	194.	0.89	5	2556.00	
9.52	0.0	2.67	12.61	2.31	7.13	2562.00	2556.60	
0.011412	0.041	0.120	0.045	0.120	0.72	-0.00	100.89	
	2550.40	890.	890.	890.	46.	105.	252.06	208.

CCHV= 0.100 CEHV= 0.500

```
*SECNO 1.760

*** GR CARDS REPEATED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=      2561.70 ELREA=      2559.90

      1.76     3795.        0.     3167.      628.      1.66         3      125.
   2560.76       0.0        0.      281.      269.     -0.43         0   2556.00
     10.36       0.0       0.0     11.28      2.33      0.38   2562.42   2556.60
  0.007912     0.041     0.120     0.045     0.120      0.04     -0.00    130.00
             2550.40       40.       40.       40.       17.      108.    254.68       209.

SPECIAL BRIDGE

SB      HK      XKOR      COFQ     RDLEN       BWC       BWP     BAREA        SS
      1.25      1.60      3.00       0.0     31.00      0.50    345.00       0.0
     ELCHU     ELCHD
   2550.00   2550.00

*SECNO 1.760

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

     EGPRS     EGLWC        H3     QWEIR       QPR     BAREA     TAREA      ELLC
   2562.65   2562.38      0.20      780.     3009.      345.      345.   2561.30

     ELTRD
   2560.40


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=      2562.20 ELREA=      2560.40

      1.76     3795.        0.     3072.      723.      1.33         5      126.
   2561.32       0.0        0.      300.      321.     -0.33         0   2556.00
     10.92       0.0       0.0     10.23      2.25      0.23   2562.65   2556.60
  0.005961     0.041     0.120     0.045     0.120       0.0     -0.00    130.00
             2550.40       12.       12.       12.       17.      109.    256.47       209.

CCHV=    0.100 CEHV=    0.800
*SECNO 1.760
      1.76     3795.      237.     2809.      748.      0.92         3      178.
   2561.82       0.0      136.      317.      368.     -0.41         0   2556.00
     11.42       0.0      1.74      8.85      2.03      0.05   2562.74   2556.60
  0.004145     0.041     0.130     0.045     0.120      0.04     -0.00     79.57
             2550.40       10.       10.       10.       67.      111.    258.04       209.

*SECNO 1.990

3301 HV CHANGED MORE THAN HVINS

    ALD CREEK                          50 YR FLOOD         11/11/81
   MILE         Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
   ELEV         CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
   DEPTH        WSELK     VLOB      VCH       VROB      HL        EG     LEFT/RIGHT
```

SLOPE	WTN	XNL	XNCH	XNR	QLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.99	3655.	902.	2749.	4.	1.64	3	204.	
2569.52	2569.52	371.	233.	5.	0.73	20	2566.10	
7.82	0.0	2.43	11.78	0.77	7.42	2571.16	2568.60	
0.012725	0.041	0.130	0.045	0.130	0.58	-0.00	275.78	
	2561.70	1115.	1115.	1115.	173.	31.	479.72	227.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.000

3301 HV CHANGED MORE THAN HVINS

ALD CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	QLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2570.00 ELREA= 2571.70

2.00	3655.	401.	3254.	0.	0.60	3	220.	
2571.07	0.0	298.	495.	0.	-1.04	0	2567.90	
7.87	0.0	1.35	6.58	0.0	0.40	2571.67	2570.50	
0.004159	0.041	0.130	0.045	0.130	0.10	-0.00	274.75	
	2563.20	60.	60.	60.	175.	45.	495.00	228.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	30.00	1.10	400.00	4.40

ELCHU	ELCHD
2563.70	2563.70

CCHV= 0.100 CEHV= 0.500
*SECNO 2.000

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2573.14	2571.71	0.04	698.	2925.	400.	400.	2570.50

ELTRD
2570.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2570.50 ELREA= 2572.20

2.00	3655.	518.	3137.	0.	0.39	2	268.
2572.00	0.0	435.	579.	0.	-0.21	0	2567.90

```
     8.80      0.0      1.19      5.42      0.0       0.73   2572.40   2570.50
 0.002284     0.041     0.130     0.045     0.130     0.0      -0.00    227.29
           2563.20      26.       26.       26.      223.       45.     495.00     229.
```

*SECNO 2.000

```
*** GR CARDS REPEATED
     2.00     3655.      545.     3108.        2.      0.38        0      278.
  2572.05      0.0       443.      583.        5.     -0.02        0    2567.90
     8.85      0.0       1.23      5.33      0.47      0.03   2572.43   2570.50
 0.001731     0.041     0.110     0.040     0.110      0.00     -0.00    223.40
           2563.20       15.       15.       15.      227.       51.     501.20     229.
```

*SECNO 2.180

3301 HV CHANGED MORE THAN HVINS

```
    ALD CREEK                          50 YR FLOOD        11/11/81
   MILE      Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
   ELEV      CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
   DEPTH     WSELK     VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
   SLOPE     WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
             ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST      VOL
```

```
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     2.18     3480.      480.     2412.      588.      1.59       20      233.
  2583.10   2583.10      230.      200.      245.      1.22        8    2580.30
     9.30      0.0       2.09     12.08      2.41      3.10   2584.70   2580.10
 0.009025     0.041     0.110     0.040     0.120      0.61     -0.00    195.89
           2573.80      945.      945.      945.      134.       99.     428.95     248.
```

*SECNO 2.190

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

```
     2.19     3480.      686.     2103.      691.      0.81        4      241.
  2584.20      0.0       364.      229.      341.     -0.78        0    2580.30
    10.40      0.0       1.88      9.17      2.02      0.24   2585.02   2580.10
 0.004325     0.041     0.110     0.040     0.120      0.08     -0.00    191.89
           2573.80       40.       40.       40.      138.      104.     433.17     249.
```

SPECIAL BRIDGE

```
SB      HK       XKOR      COFQ      RDLEN     BWC       BWP      BAREA       SS
        1.25     1.60      3.00      0.0      14.00      0.20     80.00      0.0
   ELCHU     ELCHD
  2573.80   2573.80
```

*SECNO 2.190

*** GR CARDS REPEATED

103

6870 D.S. ENERGY OF 2585.02 HIGHER THAN COMPUTED ENERGY OF 2584.58

ALD CREEK			50 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2631.22	2585.06	0.04	3179.	311.	80.	80.	2579.60

ELTRD
2580.00

2.19	3480.	688.	2101.	692.	0.81	3	241.	
2584.21	0.0	365.	230.	342.	-0.00	0	2580.30	
10.41	0.0	1.88	9.15	2.02	0.0	2585.02	2580.10	
0.004304	0.041	0.110	0.040	0.120	0.0	-0.00	191.86	
	2573.80	12.	12.	12.	138.	104.	433.20	249.

*SECNO 2.190

*** GR CARDS REPEATED

2.19	3480.	772.	1891.	817.	0.56	2	244.	
2584.52	0.0	405.	238.	371.	-0.25	0	2580.30	
10.72	0.0	1.91	7.94	2.20	0.04	2585.08	2580.10	
0.003906	0.041	0.110	0.045	0.110	0.02	-0.00	190.70	
	2573.80	10.	10.	10.	139.	105.	434.43	249.

*SECNO 2.270

3301 HV CHANGED MORE THAN HVINS

ALD CREEK			50 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.27	3380.	370.	2562.	448.	1.41	20	285.	
2587.76	2587.76	219.	235.	204.	0.85	19	2585.40	
7.96	0.0	1.69	10.90	2.20	1.96	2589.17	2584.30	
0.009489	0.041	0.110	0.045	0.110	0.42	-0.00	135.92	
	2579.80	340.	340.	340.	169.	116.	420.98	256.

*SECNO 2.270

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

2.27	3380.	619.	2208.	553.	0.68	4	314.	
2588.81	0.0	379.	272.	320.	-0.73	0	2585.40	
9.01	0.0	1.63	8.13	1.73	0.25	2589.49	2584.30	
0.004351	0.041	0.110	0.045	0.110	0.07	-0.00	132.06	
	2579.80	40.	40.	40.	172.	141.	445.71	256.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.01	75.00	0.0

ELCHU	ELCHD
2580.00	2580.00

*SECNO 2.270

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2589.49 HIGHER THAN COMPUTED ENERGY OF 2589.32
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2639.27	2589.50	0.00	3072.	341.	75.	75.	2585.00

ELTRD
2585.00

2.27	3380.	620.	2206.	554.	0.68	3	314.	
2588.81	0.0	380.	272.	321.	-0.00	0	2585.40	
9.01	0.0	1.63	8.11	1.73	0.0	2589.49	2584.30	
0.004334	0.041	0.110	0.045	0.110	0.0	-0.00	132.04	
	2579.80	12.	12.	12.	172.	141.	445.84	257.

*SECNO 2.270

*** GR CARDS REPEATED

ALD CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.27	3380.	408.	2417.	555.	1.13	2	290.	
2588.64	0.0	247.	242.	223.	0.45	0	2586.10	
8.14	0.0	1.65	10.00	2.49	0.06	2589.78	2585.00	
0.007706	0.041	0.110	0.045	0.090	0.22	-0.00	135.23	
	2580.50	10.	10.	10.	169.	121.	425.40	257.

*SECNO 2.430

2.43	3180.	778.	2267.	135.	1.05	3	310.	
2594.74	0.0	397.	235.	88.	-0.08	0	2592.20	
8.24	0.0	1.96	9.67	1.54	6.01	2595.79	2593.40	
0.009104	0.041	0.120	0.045	0.110	0.01	-0.00	273.22	
	2586.50	720.	720.	720.	222.	88.	583.34	269.

```
*SECNO 2.430

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

     2.43     3180.     1164.     1726.      290.     0.35        3      353.
  2595.80      0.0       632.      277.      163.    -0.70        0   2592.20
     9.30      0.0       1.84      6.23      1.78     0.29  2596.15   2593.40
 0.003024     0.041     0.090     0.045     0.080     0.07   -0.00    235.09
             2586.50      60.       60.       60.      260.     93.    587.60      270.


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2595.23 ,NOT   2595.80
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA       SS
       1.25      1.60      3.00       0.0      18.00     0.30     110.00      0.0
    ELCHU     ELCHD
  2586.30   2586.30

*SECNO 2.430

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

     EGPRS     EGLWC        H3      QWEIR       QPR      BAREA     TAREA      ELLC
  2616.56   2598.12       0.0       2522.      661.      110.      110.   2592.50

     ELTRD
  2593.50


     2.43     3180.     1267.     1567.      345.     0.22        2      379.
  2596.47      0.0       802.      304.      213.    -0.13        0   2592.20
     9.97      0.0       1.58      5.15      1.62     0.55  2596.70   2593.40
 0.001830     0.041     0.090     0.045     0.080     0.0    -0.00    210.89
             2586.50      12.       12.       12.      284.     95.    590.30      270.


CCHV=   0.100 CEHV=   0.800
*SECNO 2.440

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

    ALD CREEK                      50 YR FLOOD          11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
```

```
3720 CRITICAL DEPTH ASSUMED
     2.44      3180.       776.      2250.       153.      1.09        20      303.
  2597.36   2597.36        362.       228.        76.      0.87        14   2595.00
     8.06       0.0        2.14       9.88      2.02      0.05   2598.46   2596.20
 0.009902     0.041       0.110      0.045     0.080      0.70     -0.00    279.39
             2589.30          15.        15.        15.       216.        88.    582.65      270.


*SECNO 2.580

*** GR CARDS REPEATED
    ALD CREEK                        50 YR FLOOD          11/11/81
   MILE        Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV        CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH       WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
   SLOPE       WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     2.58      2990.       636.      2268.        86.      1.21         4      300.
  2606.48   2606.48        347.       225.        71.      0.12         6   2604.20
     7.98       0.0        1.83      10.10      1.22      7.65   2607.70   2605.40
 0.010543     0.042       0.130      0.045     0.130      0.10     -0.00    282.24
             2598.50          750.       750.       750.       213.        87.    582.33      282.


*SECNO 2.730

3301 HV CHANGED MORE THAN HVINS

     2.73      2800.      1331.      1370.        99.      0.63         3      369.
  2614.26       0.0         666.       154.        71.     -0.58         0   2611.40
     7.46       0.0        2.00       8.91      1.39      7.14   2614.89   2611.40
 0.007851     0.042       0.120      0.045     0.140      0.06     -0.00    322.66
             2606.80          785.       785.       785.       314.        55.    691.32      296.


CCHV=   0.100 CEHV=   0.500
*SECNO 2.730

*** GR CARDS REPEATED
     2.73      2800.      1447.      1240.       113.      0.41         2      389.
  2614.75       0.0         817.       166.        94.     -0.22         0   2611.40
     7.95       0.0        1.77       7.47      1.21      0.25   2615.16   2611.40
 0.004979     0.042       0.120      0.045     0.140      0.02     -0.00    308.63
             2606.80           40.        40.        40.       328.        61.    697.34      296.


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2614.05 ,NOT   2614.75
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK         XKOR       COFQ      RDLEN      BWC       BWP      BAREA       SS
     1.25       1.60       3.00        0.0      21.00      0.50      78.00      0.0
   ELCHU      ELCHD
  2606.80    2606.80
```

*SECNO 2.730

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2615.16 HIGHER THAN COMPUTED ENERGY OF 2614.94
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2646.77	2617.00	0.0	2568.	217.	78.	78.	2610.60	
ELTRD								
2611.30								
2.73	2800.	1448.	1239.	113.	0.41	2	389.	
2614.75	0.0	818.	166.	94.	-0.00	0	2611.40	
7.95	0.0	1.77	7.46	1.21	0.0	2615.16	2611.40	
0.004967	0.042	0.120	0.045	0.140	0.0	-0.00	308.55	
	2606.80	12.	12.	12.	328.	61.	697.38	297.

*SECNO 2.730

*** GR CARDS REPEATED

2.73	2800.	1462.	1230.	107.	0.39	1	391.	
2614.82	0.0	834.	167.	96.	-0.01	0	2611.40	
8.02	0.0	1.75	7.35	1.12	0.05	2615.21	2611.40	
0.004771	0.042	0.120	0.045	0.150	0.00	-0.00	307.07	
	2606.80	10.	10.	10.	329.	62.	698.02	297.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.800

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

ALD CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.80	2715.	1129.	1494.	92.	1.00	4	343.	
2618.43	2618.43	508.	140.	50.	0.61	9	2616.10	
6.93	0.0	2.22	10.65	1.84	3.27	2619.43	2616.10	
0.022499	0.042	0.160	0.060	0.160	0.49	-0.00	342.07	
	2611.50	370.	370.	370.	294.	48.	684.75	305.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.890

2.89	2585.	185.	2259.	141.	0.91	5	224.	
2626.15	0.0	169.	277.	82.	-0.10	0	2623.80	
7.65	0.0	1.09	8.15	1.72	7.62	2627.05	2623.20	
0.010828	0.043	0.160	0.060	0.160	0.01	-0.00	73.85	
	2618.50	500.	500.	500.	165.	60.	298.31	312.

```
*SECNO 2.900

*** GR CARDS REPEATED
     2.90     2585.       98.     2372.      115.     1.31        4      187.
  2626.82  2626.40        91.      248.       60.     0.41       11  2625.10
     7.02      0.0      1.08      9.58     1.92     0.75  2628.13   2624.50
 0.014619     0.043     0.150     0.055    0.140     0.32    -0.00   109.60
           2619.80        60.       60.       60.      129.       58.   296.17      312.


SPECIAL BRIDGE

SB     HK       XKOR      COFQ      RDLEN      BWC       BWP      BAREA      SS
      1.25      1.60      3.00        0.0    23.00      0.01     120.00     0.0
    ELCHU     ELCHD
  2619.80   2619.80

CCHV=   0.100 CEHV=   0.500
*SECNO 2.900

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

     EGPRS     EGLWC        H3      QWEIR       QPR     BAREA     TAREA      ELLC
  2638.35   2628.13      0.00       1312.     1275.      120.      120.  2625.00

     ELTRD
  2626.20

     2.90      2585.      514.      1848.      223.     0.31         2      235.
  2629.31       0.0       409.       356.      147.    -1.00         0  2625.30
     9.31       0.0       1.26       5.20      1.52     1.49  2629.62   2624.70
 0.001777     0.043      0.100      0.045     0.100      0.0    -0.00    68.85
           2620.00         12.        12.       12.      170.       65.   303.98      312.

CCHV=   0.100 CEHV=   0.800
*SECNO 2.900

*** GR CARDS REPEATED
     2.90      2585.      419.      1951.      215.     0.36         2      235.
  2629.33       0.0       411.       356.      148.     0.05         0  2625.30
     9.33       0.0       1.02       5.47      1.45     0.03  2629.69   2624.70
 0.001966     0.043      0.130      0.045     0.110     0.04    -0.00    68.80
           2620.00         15.        15.       15.      170.       66.   304.03      313.

*SECNO 2.950

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

    ALD CREEK                    50 YR FLOOD          11/11/81
```

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.95	2525.	179.	2210.	136.	0.86	2	225.	
2630.16	0.0	171.	278.	82.	0.51	0	2627.80	
7.66	0.0	1.05	7.95	1.65	0.93	2631.02	2627.20	
0.008641	0.043	0.150	0.055	0.150	0.41	-0.00	73.81	
	2622.50	260.	260.	260.	165.	60.	298.35	317.

CCHV= 0.100 CEHV= 0.800
*SECNO 3.050

*** GR CARDS REPEATED

3.05	2395.	90.	2205.	100.	1.15	6	185.	
2635.59	2634.95	88.	246.	59.	0.29	11	2633.90	
6.99	0.0	1.03	8.96	1.70	5.48	2636.74	2633.30	
0.015331	0.044	0.160	0.060	0.160	0.23	-0.00	111.52	
	2628.60	490.	490.	490.	127.	58.	296.06	322.

CCHV= 0.100 CEHV= 0.500
*SECNO 3.200
ALD CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.20	2195.	865.	1249.	81.	0.86	19	248.	
2650.20	2650.20	356.	129.	38.	-0.29	14	2648.60	
5.50	0.0	2.43	9.65	2.11	10.94	2651.06	2646.50	
0.012147	0.044	0.100	0.045	0.130	0.03	-0.00	75.86	
	2644.70	800.	800.	800.	214.	34.	323.44	331.

*SECNO 3.210

*** GR CARDS REPEATED
ALD CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2649.70 ELREA= 2652.90

3.21	2195.	894.	1301.	0.	0.98	20	228.
2651.38	2651.38	353.	129.	0.	0.12	5	2649.80

5.48	0.0	2.54	10.08	0.0	0.76	2652.36	2647.70	
0.013323	0.044	0.100	0.045	0.130	0.06	-0.00	75.95	
	2645.90	60.	60.	60.	214.	15.	304.00	331.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	20.00	0.20	85.00	0.0

ELCHU	ELCHD
2645.90	2645.90

*SECNO 3.210

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2667.95	2652.42	0.06	1567.	629.	85.	85.	2650.20

ELTRD
2650.20

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2650.20 ELREA= 2653.40

3.21	2195.	1105.	1090.	0.	0.40	3	239.	
2652.34	0.0	548.	157.	0.	-0.57	0	2649.80	
6.44	0.0	2.02	6.95	0.0	0.39	2652.74	2647.70	
0.004888	0.044	0.100	0.045	0.130	0.0	-0.00	37.38	
	2645.90	13.	13.	13.	252.	15.	304.00	332.

*SECNO 3.210

3301 HV CHANGED MORE THAN HVINS

ALD CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3.21	2195.	807.	1304.	83.	0.98	20	247.	
2652.36	2652.36	349.	129.	38.	0.58	9	2650.80	
5.46	0.0	2.31	10.15	2.21	0.11	2653.35	2648.70	
0.013567	0.044	0.110	0.045	0.130	0.29	-0.00	76.07	
	2646.90	15.	15.	15.	213.	34.	323.32	332.

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

```
*SECNO 3.390
      3.39      1970.       178.      1792.         0.      1.33         4       132.
   2665.56   2665.39        107.       185.         0.      0.35         5   2663.40
      5.56       0.0        1.66       9.70       0.47     13.37   2666.89   2665.00
 0.014025     0.044       0.130      0.045      0.150      0.17     -0.00    244.11
              2660.00        970.       970.       970.       108.       24.    376.21      341.
```

THIS RUN EXECUTED 11/11/81 7:49:11

```
**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR - 01,02,03
  MODIFICATION - 50,51,52,53,54
**************************************************

T1      YANCEY CO NC FEMA STUDY                                          1625
T2      100 YR FLOOD                                                     1630
T3      BALD CREEK                                                       1635

J1  ICHECK    INQ   NINV   IDIR   STRT  METRIC  HVINS     Q     WSEL    FQ

          0.     4.     0.     0. 0.00582      0.   0.0      0.   0.0    0.0   1640

J2  NPROF   IPLOT   PRFVS   XSECV  XSECH      FN  ALLDC    IBW  CHNIM ITRACE

          3.     0.    -1.     0.     0.     0.0    0.0     0.     0.     0.   1645
```

```
*PROF 3

CCHV=  0.100 CEHV=  0.500
*SECNO .120
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
    BALD CREEK                  100 YR FLOOD          11/11/81
   MILE        Q          QLOB        QCH         QROB        HV          ITRIAL      TOPWID
   ELEV      CRIWS        ALOB        ACH         AROB        DHV         IDC         BANK ELEV
   DEPTH     WSELK        VLOB        VCH         VROB        HL          EG       LEFT/RIGHT
   SLOPE     WTN          XN'         XNCH        XNR         OLOSS       CORAR       SSTA
             ELMIN        XLOBL       XLCH        XLOBR       WSDL        WSDR        ENDST       VOL

      0.12      5755.          0.      3242.       2513.       0.68           0         431.
   2485.61       0.0           0.       376.       1184.       0.50           0      2486.50
      9.21       0.0          0.0       8.62        2.12       0.0      2486.29      2481.70
  0.005812       0.0         0.120     0.045       0.120       0.0        -0.00       100.38
              2476.40           0.        0.          0.        27.         404.      531.74          0.

*SECNO .120

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2486.90 ELREA=     2483.50

      0.12      5755.          0.      3162.       2593.       0.83           2         419.
   2485.83       0.0           0.       327.       1268.       0.15           0      2479.00
      9.43       0.0          0.0       9.68        2.05       0.30      2486.66      2481.70
  0.004215       0.039       0.110     0.040       0.110       0.07        -0.00       118.00
              2476.40          60.       60.         60.        20.         400.      537.42          2.


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2484.69 ,NOT   2485.83
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK         XKOR       COFQ       RDLEN       BWC        BWP        BAREA       SS
       1.25       1.60       3.00        0.0        33.00      0.50       263.00      0.0
     ELCHU      ELCHD
   2475.80    2475.80

*SECNO .120

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

     EGPRS      EGLWC         H3       QWEIR       QPR        BAREA      TAREA       ELLC
   2497.72    2487.92       0.0        3637.      2121.       263.       263.      2483.90

     ELTRD
   2484.00


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2487.40 ELREA=     2484.00

      0.12      5755.          0.      2785.       2970.       0.44           3         431.
   2487.00       0.0           0.       372.       1723.      -0.38           0      2479.00
     10.60       0.0          0.0       7.48        1.72       0.79      2487.44      2481.70
```

0.002114	0.039	0.110	0.040	0.110	0.0	-0.00	118.00	
	2476.40	28.	28.	28.	20.	411.	548.61	3.

*SECNO .120

0.12	5755.	7.	2830.	2918.	0.30	2	476.	
2487.19	0.0	17.	468.	1797.	-0.15	0	2486.50	
10.79	0.0	0.44	6.04	1.62	0.03	2487.49	2481.70	
0.001783	0.039	0.110	0.040	0.110	0.01	-0.00	73.19	
	2476.40	15.	15.	15.	54.	421.	549.00	4.

*SECNO .260

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

BALD CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.26	5720.	0.	3655.	2065.	1.27	20	406.	
2490.53	2490.53	0.	328.	865.	0.97	14	2492.30	
8.33	0.0	0.0	11.16	2.39	1.99	2491.79	2487.50	
0.008749	0.040	0.110	0.040	0.110	0.48	-0.00	102.73	
	2482.20	590.	590.	590.	25.	382.	509.14	28.

*SECNO .390

3301 HV CHANGED MORE THAN HVINS

0.39	5690.	3030.	2604.	56.	0.45	3	595.	
2494.09	0.0	1754.	337.	62.	-0.82	0	2489.70	
9.79	0.0	1.73	7.73	0.90	2.66	2494.54	2489.30	
0.002703	0.040	0.110	0.040	0.120	0.08	-0.00	128.40	
	2484.30	595.	595.	595.	508.	87.	723.43	50.

*SECNO .390

*** GR CARDS REPEATED

0.39	5690.	3074.	2554.	62.	0.41	2	598.	
2494.23	0.0	1824.	342.	72.	-0.04	0	2489.70	
9.93	0.0	1.68	7.46	0.87	0.10	2494.64	2489.30	
0.002460	0.040	0.110	0.040	0.120	0.00	-0.00	125.85	
	2484.30	40.	40.	40.	511.	87.	723.64	53.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS

```
      1.25      1.60      3.00      0.0      25.00      0.50    130.00      0.0
    ELCHU     ELCHD
  2484.30   2484.30

 *SECNO .390

 *** GR CARDS REPEATED
 6870 D.S. ENERGY OF 2494.64 HIGHER THAN COMPUTED ENERGY OF 2494.46
 PRESSURE AND WEIR FLOW

     EGPRS     EGLWC        H3     QWEIR       QPR     BAREA     TAREA      ELLC
   2541.83   2494.67      0.02     5337.      393.      130.      130.   2489.60

     ELTRD
   2489.70

      0.39     5690.     3075.     2552.       62.      0.41         2      598.
   2494.23       0.0     1826.      343.       72.     -0.00         0   2489.70
      9.93       0.0      1.68      7.45      0.87       0.0   2494.64   2489.30
  0.002455     0.040     0.110     0.040     0.120       0.0     -0.00    125.80
             2484.30       12.       12.       12.      511.       87.    723.64      53.

 CCHV=   0.100 CEHV=   0.800
 *SECNO .400

 *** GR CARDS REPEATED

 3301 HV CHANGED MORE THAN HVINS

     BALD CREEK                    100 YR FLOOD          11/11/81
    MILE      Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
    ELEV      CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
    DEPTH     WSELK     VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
    SLOPE     WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
              ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST      VOL

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      0.40     5690.     2420.     3242.       29.      1.21         2      499.
   2494.36   2494.36     1083.      281.       16.      0.80        10   2491.40
      8.36       0.0      2.23     11.54      1.80      0.20   2495.57   2491.00
  0.007663     0.040     0.110     0.040     0.100      0.64     -0.00    168.95
             2486.00       50.       50.       50.      468.       32.    668.04      55.

 CCHV=   0.100 CEHV=   0.500
 *SECNO .790
     BALD CREEK                    100 YR FLOOD          11/11/81
    MILE      Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
    ELEV      CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
    DEPTH     WSELK     VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
    SLOPE     WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
              ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST      VOL

      0.79     5400.        0.     2782.     2618.      0.99         4      343.
   2509.93       0.0        0.      257.      963.     -0.22         0   2509.70
      8.83       0.0      0.29     10.83      2.72     15.34   2510.93   2506.70
  0.007834     0.040     0.110     0.040     0.110      0.02     -0.00    181.87
```

```
          2501.10     1980.     1980.     1980.       22.      321.    524.96      114.


CCHV=   0.100 CEHV=   0.800
*SECNO .790

3301 HV CHANGED MORE THAN HVINS


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2516.70 ELREA=     2517.00

     0.79     5400.       0.     5400.       0.      1.76         2       82.
  2510.32      0.0        0.      508.       0.      0.76         0     2513.30
     9.12      0.0       0.0     10.63      0.0      0.54   2512.08     2506.60
 0.005952     0.040     0.110    0.035     0.110     0.61     -0.00      148.00
           2501.20       80.       80.       80.       41.       41.    230.00      116.


SPECIAL BRIDGE

SB     HK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA       SS
       1.25      1.60      3.00       0.0      64.00      0.50     838.00      0.0
    ELCHU     ELCHD
  2501.20   2501.20

CCHV=   0.100 CEHV=   0.500
*SECNO .790

*** GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.=   2510.29 BRIDGE VELOCITY=,       9.35
     CALCULATED CHANNEL AREA=,      577.
    EGPRS      EGLWC         H3      QWEIR        QPR      BAREA      TAREA       ELLC
      0.0    2512.12       0.09         0.     5400.       838.       838.    2514.40

    ELTRD
  2517.20


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2517.20 ELREA=     2517.50

     0.79     5400.       0.     5400.       0.      1.71         0       82.
  2510.41      0.0        0.      515.       0.     -0.05         0     2513.30
     9.21      0.0       0.0     10.48      0.0      0.04   2512.12     2506.60
 0.005686     0.040     0.110    0.035     0.110     0.0       0.0      148.00
           2501.20       20.       20.       20.       41.       41.    230.00      116.


CCHV=   0.100 CEHV=   0.800
*SECNO .800
    BALD CREEK                    100 YR FLOOD          11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL
```

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.80	5400.	0.	2920.	2480.	1.33	20	330.	
2511.84	2511.84	0.	238.	815.	-0.37	10	2512.10	
8.34	0.0	0.0	12.29	3.04	0.34	2513.17	2509.10	
0.013966	0.040	0.100	0.045	0.120	0.04	-0.00	184.36	
	2503.50	40.	40.	40.	19.	311.	514.19	117.

*SECNO 1.170

3301 HV CHANGED MORE THAN HVINS

1.17	5120.	2625.	2443.	52.	0.48	7	547.	
2526.92	0.0	1324.	314.	55.	-0.85	0	2523.80	
8.62	0.0	1.98	7.79	0.95	14.15	2527.40	2524.30	
0.004110	0.040	0.100	0.040	0.120	0.09	-0.00	246.00	
	2518.30	2015.	2015.	2015.	480.	67.	792.76	180.

*SECNO 1.490

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.49	4885.	627.	3968.	290.	2.41	3	136.	
2541.86	2541.86	189.	289.	110.	1.93	8	2537.70	
8.86	0.0	3.32	13.75	2.64	10.28	2544.27	2538.90	
0.010346	0.040	0.100	0.045	0.120	1.55	-0.00	85.08	
	2533.00	1680.	1680.	1680.	79.	56.	220.95	224.

*SECNO 1.570

3301 HV CHANGED MORE THAN HVINS

1.57	4820.	766.	3695.	359.	1.70	2	138.	
2547.48	0.0	227.	313.	133.	-0.71	0	2542.70	
9.48	0.0	3.38	11.82	2.70	4.83	2549.17	2543.90	
0.008692	0.040	0.100	0.045	0.120	0.07	-0.00	83.68	
	2538.00	510.	510.	510.	81.	58.	222.01	232.

*SECNO 1.580

*** GR CARDS REPEATED

1.58	4820.	854.	3560.	406.	1.28	3	141.	
2548.22	0.0	273.	342.	162.	-0.42	0	2542.70	
10.22	0.0	3.13	10.42	2.51	0.29	2549.50	2543.90	
0.006000	0.040	0.100	0.045	0.120	0.04	-0.00	82.00	
	2538.00	40.	40.	40.	83.	59.	223.29	232.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	19.00	0.01	120.00	0.0

ELCHU	ELCHD
2537.50	2537.50

*SECNO 1.580

*** GR CARDS REPEATED
PRESS FLOW BECAUSE EGLWC OF 2549.51 EXCEEDS 1.5 DEPTH
6870 D.S. ENERGY OF 2549.50 HIGHER THAN COMPUTED ENERGY OF 2549.25
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2588.31	2549.51	0.00	4065.	772.	120.	120.	2543.80

ELTRD
2543.40

1.58	4820.	856.	3558.	407.	1.27	3	141.	
2548.23	0.0	274.	342.	162.	-0.01	0	2542.70	
10.23	0.0	3.13	10.40	2.51	0.0	2549.50	2543.90	
0.005968	0.040	0.100	0.045	0.120	0.0	-0.00	81.97	
	2538.00	12.	12.	12.	83.	59.	223.31	233.

CCHV= 0.100 CEHV= 0.800
*SECNO 1.580

1.58	4820.	739.	3659.	422.	1.36	1	142.	
2548.27	0.0	277.	344.	164.	0.09	0	2542.70	
10.27	0.0	2.67	10.64	2.57	0.06	2549.63	2543.90	
0.006202	0.040	0.120	0.045	0.120	0.07	-0.00	81.86	
	2538.00	10.	10.	10.	83.	59.	223.39	233.

*SECNO 1.750

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.75	4690.	242.	3740.	708.	2.29	10	161.	
2560.62	2560.62	84.	276.	257.	0.93	5	2556.00	
10.22	0.0	2.88	13.53	2.76	7.35	2562.91	2556.60	
0.011638	0.041	0.120	0.045	0.120	0.75	-0.00	93.02	
	2550.40	890.	890.	890.	54.	107.	254.27	247.

CCHV= 0.100 CEHV= 0.500

```
*SECNO 1.760

*** GR CARDS REPEATED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2561.70 ELREA=     2559.90

     1.76     4690.        0.     3804.      886.      2.06         3      126.
  2561.29      0.0         0.      299.      318.     -0.23         0   2556.00
    10.89      0.0        0.0     12.72     2.79      0.41   2563.35    2556.60
 0.009263     0.041      0.120     0.045    0.120      0.02     -0.00     130.00
             2550.40       40.       40.       40.       17.       109.    256.35      248.


SPECIAL BRIDGE

SB     HK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA       SS
      1.25       1.60      3.00       0.0      31.00      0.50     345.00      0.0
    ELCHU     ELCHD
  2550.00   2550.00

*SECNO 1.760

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

    EGPRS      EGLWC         H3      QWEIR       QPR      BAREA      TAREA       ELLC
  2563.39    2563.08       0.23       1550.     3173.       345.       345.    2561.30

    ELTRD
  2560.40


     1.76     4690.       340.      3375.      975.      1.19         3      184.
  2562.20      0.0         157.      330.      404.     -0.87         0   2556.00
    11.80      0.0        2.18      10.22     2.41      0.04   2563.39    2556.60
 0.005234     0.041      0.120     0.045    0.120       0.0     -0.00      75.32
             2550.40       12.       12.       12.       72.       112.    259.23      248.


CCHV=   0.100 CEHV=   0.800
*SECNO 1.760
     1.76     4690.       320.      3380.      990.      1.18         0      185.
  2562.26      0.0         160.      333.      410.     -0.01         0   2556.00
    11.86      0.0        2.00      10.17     2.41      0.05   2563.44    2556.60
 0.005134     0.041      0.130     0.045    0.120       0.00     -0.00      74.57
             2550.40       10.       10.       10.       72.       112.    259.44      248.


*SECNO 1.990
     1.99     4515.      1325.      3171.       20.      1.61         6      243.
  2570.29  2570.10        497.       263.       18.      0.43        20   2566.10
     8.59      0.0        2.67      12.04     1.08      8.11   2571.90    2568.60
 0.011307     0.041      0.130     0.045    0.130       0.35     -0.00     246.38
             2561.70      1115.     1115.     1115.      202.        41.    489.55      270.
```

```
CCHV=   0.100 CEHV=   0.800
*SECNO 2.000

3301 HV CHANGED MORE THAN HVINS

    BALD CREEK                       100 YR FLOOD          11/11/81
   MILE         Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV         CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH        WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE        WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
                ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=      2570.00 ELREA=     2571.70

     2.00      4515.       592.      3923.         0.       0.69          3       240.
  2571.69        0.0       383.       551.         0.      -0.92          0    2567.90
     8.49        0.0       1.54       7.13        0.0       0.39    2572.38    2570.50
 0.004225      0.041      0.130      0.045      0.130       0.09      -0.00     255.20
             2563.20        60.        60.        60.       195.        45.     495.00       271.

SPECIAL BRIDGE

SB     HK         XKOR       COFQ      RDLEN        BWC        BWP      BAREA        SS
     1.25         1.60       3.00        0.0      30.00       1.10     400.00       4.40
   ELCHU       ELCHD
  2563.70    2563.70

CCHV=   0.100 CEHV=   0.500
*SECNO 2.000

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

    EGPRS      EGLWC         H3      QWEIR        QPR      BAREA      TAREA       ELLC
  2574.86    2572.43       0.04      1496.      3029.       400.       400.    2570.50

    ELTRD
  2570.50

     2.00      4515.       738.      3771.         5.       0.46          2       329.
  2572.66        0.0       571.       638.         9.      -0.23          0    2567.90
     9.46        0.0       1.29       5.91       0.58       0.73    2573.12    2570.50
 0.002385      0.041      0.130      0.045      0.130        0.0      -0.00     174.25
             2563.20        26.        26.        26.       276.        54.     503.66       271.

*SECNO 2.000

*** GR CARDS REPEATED
     2.00      4515.       777.      3733.         6.       0.44          0       330.
  2572.71        0.0       581.       642.        10.      -0.02          0    2567.90
     9.51        0.0       1.34       5.81       0.60       0.03    2573.15    2570.50
 0.001808      0.041      0.110      0.040      0.110       0.00      -0.00     173.72
             2563.20        15.        15.        15.       276.        54.     503.83       272.
```

*SECNO 2.180

3301 HV CHANGED MORE THAN HVINS

BALD CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.18	4300.	721.	2786.	793.	1.75	20	237.	
2583.61	2583.61	292.	213.	289.	1.31	8	2580.30	
9.81	0.0	2.47	13.05	2.74	3.26	2585.36	2580.10	
0.009647	0.041	0.110	0.040	0.120	0.66	-0.00	194.03	
	2573.80	945.	945.	945.	135.	101.	430.91	294.

*SECNO 2.190

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

2.19	4300.	958.	2439.	904.	0.90	4	246.	
2584.81	0.0	439.	246.	396.	-0.85	0	2580.30	
11.01	0.0	2.18	9.93	2.28	0.26	2585.71	2580.10	
0.004634	0.041	0.110	0.040	0.120	0.08	-0.00	189.70	
	2573.80	40.	40.	40.	140.	106.	435.48	295.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	14.00	0.20	80.00	0.0

ELCHU	ELCHD
2573.80	2573.80

*SECNO 2.190

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2585.71 HIGHER THAN COMPUTED ENERGY OF 2585.23

BALD CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2656.58	2585.75	0.05	3996.	331.	80.	80.	2579.60

ELTRD
2580.00

```
        2.19      4300.        959.       2436.        904.       0.90          3       246.
     2584.81       0.0         441.        246.        397.      -0.00          0    2580.30
       11.01       0.0         2.18        9.91        2.28       0.0     2585.71    2580.10
    0.004608      0.041       0.110       0.040       0.120       0.0       -0.00     189.66
               2573.80         12.         12.         12.       140.        106.     435.52        295.

 *SECNO 2.190

 *** GR CARDS REPEATED
        2.19      4300.       1061.       2181.       1058.       0.62          2       249.
     2585.16       0.0         487.        256.        431.      -0.28          0    2580.30
       11.36       0.0         2.18        8.54        2.46       0.04    2585.78    2580.10
    0.004107      0.041       0.110       0.045       0.110       0.03      -0.00     188.34
               2573.80         10.         10.         10.       141.        107.     436.91        295.

 *SECNO 2.270

 3301 HV CHANGED MORE THAN HVINS

     BALD CREEK                           100 YR FLOOD          11/11/81
       MILE        Q          QLOB        QCH         QROB        HV          ITRIAL      TOPWID
       ELEV        CRIWS      ALOB        ACH         AROB        DHV         IDC         BANK ELEV
       DEPTH       WSELK      VLOB        VCH         VROB        HL          EG       LEFT/RIGHT
       SLOPE       WTN        XNL         XNCH        XNR         OLOSS       CORAR       SSTA
                   ELMIN      XLOBL       XLCH        XLOBR       WSDL        WSDR        ENDST         VOL

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
        2.27      4175.        613.       2945.        617.       1.52         20       298.
     2588.25    2588.25        293.        252.        255.       0.90         19    2585.40
        8.45       0.0         2.09       11.67        2.42       2.05    2589.77    2584.30
    0.009918      0.041       0.110       0.045       0.110       0.45      -0.00     134.12
               2579.80        340.        340.        340.       170.        128.     432.54        303.

 *SECNO 2.270

 *** GR CARDS REPEATED

 3301 HV CHANGED MORE THAN HVINS

        2.27      4175.        888.       2544.        743.       0.75          4       329.
     2589.36       0.0         464.        291.        392.      -0.77          0    2585.40
        9.56       0.0         1.91        8.74        1.90       0.26    2590.10    2584.30
    0.004597      0.041       0.110       0.045       0.110       0.08      -0.00     130.03
               2579.80         40.         40.         40.       174.        154.     458.70        304.

 SPECIAL BRIDGE

 SB    HK         XKOR        COFQ        RDLEN       BWC         BWP        BAREA       SS
        1.25       1.60        3.00        0.0        15.00       0.01       75.00       0.0
      ELCHU      ELCHD
     2580.00    2580.00
```

*SECNO 2.270

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2590.10 HIGHER THAN COMPUTED ENERGY OF 2589.88
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2666.35	2590.11	0.00	3834.	343.	75.	75.	2585.00

ELTRD
2585.00

2.27	4175.	889.	2542.	744.	0.74	3	329.	
2589.36	0.0	465.	291.	392.	-0.00	0	2585.40	
9.56	0.0	1.91	8.73	1.90	0.0	2590.10	2584.30	
0.004581	0.041	0.110	0.045	0.110	0.0	-0.00	130.01	
	2579.80	12.	12.	12.	174.	154.	458.84	304.

*SECNO 2.270

*** GR CARDS REPEATED
BALD CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.27	4175.	667.	2741.	767.	1.15	2	306.	
2589.22	0.0	334.	262.	285.	0.41	0	2586.10	
8.72	0.0	2.00	10.48	2.69	0.06	2590.37	2585.00	
0.007606	0.041	0.110	0.045	0.090	0.20	-0.00	133.13	
	2580.50	10.	10.	10.	171.	134.	438.89	304.

*SECNO 2.430

2.43	3925.	1093.	2600.	232.	1.10	3	330.	
2595.24	0.0	502.	255.	123.	-0.05	0	2592.20	
8.74	0.0	2.18	10.21	1.89	5.96	2596.33	2593.40	
0.009104	0.041	0.120	0.045	0.110	0.01	-0.00	255.26	
	2586.50	720.	720.	720.	240.	90.	585.35	319.

*SECNO 2.430

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

2.43	3925.	1538.	1974.	413.	0.37	3	374.	
2596.33	0.0	763.	298.	202.	-0.72	0	2592.20	
9.83	0.0	2.01	6.62	2.05	0.30	2596.70	2593.40	
0.003097	0.041	0.090	0.045	0.080	0.07	-0.00	216.16	
	2586.50	60.	60.	60.	279.	95.	589.71	320.

SPECIAL BRIDGE

SB	HK	XKO	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.00	3.00	0.0	18.00	0.30	110.00	0.0

ELCHU	ELCHD
2586.30	2586.30

*SECNO 2.430

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2627.96	2596.72	0.02	3312.	630.	110.	110.	2592.50

ELTRD
2593.50

2.43	3925.	1644.	1824.	457.	0.26	2	411.	
2596.88	0.0	916.	321.	244.	-0.11	0	2592.20	
10.38	0.0	1.79	5.69	1.87	0.44	2597.14	2593.40	
0.002079	0.041	0.090	0.045	0.080	0.0	-0.00	180.77	
	2586.50	12.	12.	12.	314.	97.	591.94	321.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.440

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

BALD CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.44	3925.	1073.	2591.	261.	1.19	20	319.	
2597.77	2597.77	445.	244.	104.	0.93	14	2595.00	
8.47	0.0	2.41	10.62	2.52	0.06	2598.96	2596.20	
0.010424	0.041	0.110	0.045	0.080	0.74	-0.00	264.80	
	2589.30	15.	15.	15.	230.	89.	584.28	321.

*SECNO 2.580

*** GR CARDS REPEATED

BALD CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.58	3690.	867.	2681.	142.	1.47	4	312.	
2606.78	2606.78	406.	237.	91.	0.28	5	2604.20	
8.28	0.0	2.13	11.34	1.55	8.48	2608.25	2605.40	
0.012387	0.042	0.130	0.045	0.130	0.22	-0.00	271.49	
	2598.50	750.	750.	750.	224.	89.	583.53	334.

*SECNO 2.730

3301 HV CHANGED MORE THAN HVINS

2.73	3455.	1817.	1494.	144.	0.56	4	394.	
2614.88	0.0	658.	169.	100.	-0.91	0	2611.40	
8.08	0.0	2.12	8.83	1.44	7.10	2615.45	2611.40	
0.006782	0.042	0.120	0.045	0.140	0.09	-0.00	304.98	
	2606.80	785.	785.	785.	332.	62.	698.91	351.

CCHV= 0.100 CEHV= 0.500
*SECNO 2.730

*** GR CARDS REPEATED

2.73	3455.	1902.	1396.	157.	0.42	0	410.	
2615.27	0.0	983.	179.	120.	-0.15	0	2611.40	
8.47	0.0	1.94	7.81	1.31	0.23	2615.69	2611.40	
0.004925	0.042	0.120	0.045	0.140	0.01	-0.00	293.95	
	2606.80	40.	40.	40.	343.	67.	703.65	352.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2615.14 ,NOT 2615.27
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.00	0.50	78.00	0.0

ELCHU	ELCHD
2606.80	2606.80

*SECNO 2.730

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2615.69 HIGHER THAN COMPUTED ENERGY OF 2615.49
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2664.02	2618.48	0.0	3261.	228.	78.	78.	2610.60

ELTRD
2611.30

2.73	3455.	1905.	1393.	157.	0.41	2	410.	
2615.28	0.0	988.	179.	121.	-0.00	0	2611.40	
8.48	0.0	1.93	7.77	1.30	0.0	2615.69	2611.40	
0.004867	0.042	0.120	0.045	0.140	0.0	-0.00	293.53	
	2606.80	12.	12.	12.	343.	67.	703.83	353.

```
*SECNO 2.730

*** GR CARDS REPEATED
     2.73      3455.      1921.     1385.      149.      0.40         1     412.
  2615.34       0.0       1004.      180.      124.     -0.01         0  2611.40
     8.54       0.0       1.91       7.68      1.20      0.05   2615.74  2611.40
 0.004705     0.042      0.120      0.045     0.150      0.00     -0.00   292.09
            2606.80        10.        10.       10.      344.       68.   704.44      353.

CCHV=   0.100 CEHV=   0.800
*SECNO 2.800

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

    BALD CREEK                    100 YR FLOOD          11/11/81
   MILE        Q         QLOB       QCH       QROB       HV        ITRIAL    TOPWID
   ELEV      CRIWS       ALOB       ACH       AROB       DHV       IDC       BANK ELEV
   DEPTH     WSELK       VLOB       VCH       VROB       HL        EG      LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH      XNR        OLOSS     CORAR     SSTA
             ELMIN       XLOBL      XLCH      XLOBR      WSDL      WSDR      ENDST      VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     2.80      3345.      1523.     1692.      130.      1.05         4     362.
  2618.79   2618.79       613.      149.        64.      0.65         9  2616.10
     7.29       0.0       2.48      11.33      2.03      3.28   2619.84  2616.10
 0.023427     0.042      0.160      0.060     0.160      0.52     -0.00   327.64
            2611.50       370.       370.      370.      309.       53.   689.18      362.

CCHV=   0.100 CEHV=   0.800
*SECNO 2.890
     2.89      3190.       348.     2642.      200.      0.99         5     228.
  2626.69       0.0        246.      303.      102.     -0.07         0  2623.80
     8.19       0.0       1.41       8.73      1.96      7.83   2627.68  2623.20
 0.011038     0.043      0.160      0.060     0.160      0.01     -0.00    72.22
            2618.50       500.       500.      500.      166.       62.   300.16      370.

*SECNO 2.900

*** GR CARDS REPEATED
     2.90      3190.       205.     2807.      177.      1.45         4     222.
  2627.36   2627.05       157.      273.        79.      0.46        11  2625.10
     7.56       0.0       1.31      10.28      2.25      0.76   2628.81  2624.50
 0.014757     0.043      0.150      0.055     0.140      0.37     -0.00    76.27
            2619.80        60.        60.       60.      162.       60.   298.01      371.

SPECIAL BRIDGE

SB   HK        XKOR       COFQ      RDLEN      BWC       BWP      BAREA      SS
     1.25      1.60       3.00       0.0      23.00      0.01    120.00      0.0
   ELCHU     ELCHD
  2619.80   2619.80
```

CCHV= 0.100 CEHV= 0.500
*SECNO 2.900

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2644.92	2628.81	0.00	1910.	1293.	120.	120.	2625.00	
ELTRD								
2626.20								
2.90	3190.	727.	2170.	293.	0.35	2	239.	
2629.89	0.0	494.	383.	172.	-1.10	0	2625.30	
9.89	0.0	1.47	5.67	1.70	1.43	2630.24	2624.70	
0.001916	0.043	0.100	0.045	0.100	0.0	-0.00	67.11	
	2620.00	12.	12.	12.	171.	67.	305.95	371.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.900

*** GR CARDS REPEATED

2.90	3190.	597.	2309.	284.	0.42	2	239.	
2629.91	0.0	496.	384.	173.	0.06	0	2625.30	
9.91	0.0	1.20	6.02	1.64	0.03	2630.33	2624.70	
0.002156	0.043	0.130	0.045	0.110	0.05	-0.00	67.07	
	2620.00	15.	15.	15.	171.	67.	306.00	372.

*SECNO 2.950

*** GR CARDS REPEATED

BALD CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.95	3110.	352.	2562.	196.	0.89	2	229.	
2630.79	0.0	261.	307.	106.	0.48	0	2627.80	
8.29	0.0	1.35	8.33	1.85	0.98	2631.69	2627.20	
0.008287	0.043	0.150	0.055	0.150	0.38	-0.00	71.92	
	2622.50	260.	260.	260.	167.	62.	300.49	377.

CCHV= 0.100 CEHV= 0.800
*SECNO 3.050

*** GR CARDS REPEATED

3.05	2955.	187.	2614.	154.	1.28	5	219.	
2636.11	2635.59	150.	271.	77.	0.39	12	2633.90	
7.51	0.0	1.24	9.65	2.01	5.40	2637.39	2633.30	
0.015647	0.044	0.160	0.060	0.160	0.31	-0.00	79.24	

```
          2628.60      490.      490.      490.      159.       59.    297.85      383.


 CCHV=   0.100 CEHV=    0.500
*SECNO 3.200
    BALD CREEK                          100 YR FLOOD          11/11/81
   MILE        Q         QLOB      QCH        QROB       HV         ITRIAL     TOPWID
   ELEV        CRIWS     ALOB      ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH       WSELK     VLOB      VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE       WTN       XNL       XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN     XLOBL     XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     3.20      2705.     1158.     1443.      104.      0.96        15       251.
  2650.50   2650.50      416.      138.       44.     -0.33        14    2648.60
     5.80       0.0      2.78     10.44      2.35     11.45   2651.45    2646.50
 0.013036     0.044     0.100     0.045     0.130      0.03     -0.00      73.81
            2644.70      800.      800.      800.      216.       35.    324.60      394.


*SECNO 3.210

*** GR CARDS REPEATED
    BALD CREEK                          100 YR FLOOD          11/11/81
   MILE        Q         QLOB      QCH        QROB       HV         ITRIAL     TOPWID
   ELEV        CRIWS     ALOB      ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH       WSELK     VLOB      VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE       WTN       XNL       XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN     XLOBL     XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2649.70 ELREA=      2652.90

     3.21      2705.     1202.     1503.        0.      1.08         3       230.
  2651.69   2651.69      414.      138.        0.      0.13         5    2649.80
     5.79       0.0      2.90     10.90       0.0      0.82   2652.77    2647.70
 0.014233     0.044     0.100     0.045     0.130      0.06     -0.00      73.87
            2645.90       60.       60.       60.      216.       15.    304.00      394.


SPECIAL BRIDGE

SB    HK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA        SS
     1.25      1.60      3.00       0.0     20.00      0.20     85.00        0.0
   ELCHU     ELCHD
  2645.90   2645.90

*SECNO 3.210

*** GR CARDS REPEATED

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS
```

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2676.85	2652.84	0.07	2062.	652.	85.	85.	2650.20

ELTRD
2650.20

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2650.20 ELREA= 2653.40

3.21	2705.	1425.	1280.	0.	0.48	3	248.	
2652.67	0.0	620.	167.	0.	-0.61	0	2649.80	
6.77	0.0	2.30	7.68	0.0	0.38	2653.15	2647.70	
0.005507	0.044	0.100	0.045	0.130	0.0	-0.00	37.06	
	2645.90	13.	13.	13.	252.	15.	304.00	395.

*SECNO 3.210

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BALD CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.21	2705.	1108.	1488.	109.	1.02	20	252.	
2652.75	2652.75	426.	140.	45.	0.54	10	2650.80	
5.85	0.0	2.60	10.66	2.40	0.12	2653.76	2648.70	
0.013396	0.044	0.110	0.045	0.130	0.27	-0.00	37.95	
	2646.90	15.	15.	15.	252.	35.	324.79	395.

*SECNO 3.390

3301 HV CHANGED MORE THAN HVINS

3.39	2420.	271.	2148.	1.	1.54	5	147.	
2665.97	2665.93	145.	204.	1.	0.52	5	2663.40	
5.97	0.0	1.87	10.54	0.69	13.49	2667.51	2665.00	
0.014508	0.044	0.130	0.045	0.150	0.26	-0.00	230.46	
	2660.00	970.	970.	970.	122.	25.	377.11	405.

K05

THIS RUN EXECUTED 11/11/81 7:49:13

```
**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
**************************************************

T1      YANCEY CO NC FEMA STUDY                                          1650
T2      500 YR FLOOD                                                     1655
T3      BALD CREEK                                                       1660

J1  ICHECK     INQ    NINV    IDIR    STRT  METRIC   HVINS      Q      WSEL    FQ
          0.      5.      0.      0. 0.00582      0.     0.0      0.     0.0     0.0    1665

J2  NPROF   IPLOT   PRFVS   XSECV   XSECH      FN   ALLDC     IBW   CHNIM ITRACE
         15.      0.     -1.      0.      0.     0.0     0.0      0.      0.      0.    1670
```

L05

```
*PROF 4

CCHV=  0.100 CEHV=   0.500
*SECNO .120
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
    BALD CREEK                    500 YR FLOOD          11/11/81
   MILE        Q          QLOB        QCH         QROB        HV          ITRIAL      TOPWID
   ELEV        CRIWS      ALOB        ACH         AROB        DHV         IDC         BANK ELEV
   DEPTH       WSELK      VLOB        VCH         VROB        HL          EG       LEFT/RIGHT
   SLOPE       WTN        XNL         XNCH        XNR         OLOSS       CORAR       SSTA
               ELMIN      XLOBL       XLCH        XLOBR       WSDL        WSDR        ENDST       VOL

      0.12      9100.         8.       4452.       4640.       0.77           0        475.
   2487.04         0.0       13.        460.       1741.       0.50           0     2486.50
     10.64         0.0       0.63       9.68        2.66       0.0      2487.81     2481.70
  0.005933         0.0      0.120      0.045       0.120       0.0        -0.00      73.36
                2476.40         0.         0.          0.        54.         421.     548.71          0.


*SECNO .120
      0.12      9100.       225.       4182.       4693.       0.90           2        476.
   2487.28         0.0       110.        383.       1833.       0.14           0     2479.00
     10.88         0.0       2.05       10.91        2.56       0.30     2488.18     2481.70
  0.004326       0.039      0.110      0.040       0.110       0.07        -0.00      73.08
                2476.40         60.        60.         60.        64.         412.     549.18          3.


SPECIAL BRIDGE

SB     HK          XKOR        COFQ       RDLEN        BWC         BWP       BAREA        SS
       1.25        1.60        3.00         0.0       33.00        0.50      263.00       0.0
     ELCHU       ELCHD
   2475.80     2475.80

*SECNO .120

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

     EGPRS       EGLWC          H3       QWEIR         QPR       BAREA       TAREA       ELLC
   2517.02     2488.23        0.05        7009.       2093.        263.        263.    2483.90

     ELTRD
   2484.00


      0.12      9100.       273.       3831.       4996.       0.58           3        479.
   2488.27         0.0       155.        422.       2222.      -0.32           0     2479.00
     11.87         0.0       1.76       9.08        2.25       0.67     2488.85     2481.70
  0.002637       0.039      0.110      0.040       0.110       0.0         -0.00      71.92
                2476.40         28.        28.         28.        66.         414.     551.19          5.


*SECNO .120
      0.12      9100.        49.       4121.       4930.       0.44           2        480.
   2488.46         0.0        49.        543.       2298.      -0.14           0     2486.50
     12.06         0.0       0.99       7.58        2.15       0.04     2488.90     2481.70
  0.002304       0.039      0.110      0.040       0.110       0.01        -0.00      71.69
```

```
          2476.40       15.       15.       15.       56.      424.    551.57        6.

*SECNO .260

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

   BALD CREEK                    500 YR FLOOD          11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

3603 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      0.26     9040.        0.     5110.     3930.      1.65        20       434.
   2491.49  2491.49         0.      381.     1217.      1.20        16    2492.30
      9.29      0.0        0.0     13.41      3.23      2.55   2493.14     2487.50
  0.010991     0.040      0.110     0.040     0.110      0.60     -0.00     100.15
              2482.20       590.      590.      590.       27.       406.    533.94       36.


*SECNO .390

3301 HV CHANGED MORE THAN HVINS

      0.39     8985.     5366.     3412.      208.      0.48         3       625.
   2495.64      0.0      2535.      397.      169.     -1.17         0    2489.70
     11.34      0.0       2.12      8.58      1.23      2.86   2496.11     2489.30
  0.002672     0.040      0.110     0.040     0.120      0.12     -0.00     100.80
              2484.30       595.      595.      595.       536.      89.    725.71       68.


*SECNO .390

*** GR CARDS REPEATED
      0.39     8985.     5401.     3367.      217.      0.45         2       627.
   2495.77      0.0      2602.      403.      178.     -0.03         0    2489.70
     11.47      0.0       2.08      8.37      1.22      0.10   2496.22     2489.30
  0.002495     0.040      0.110     0.040     0.120      0.00     -0.00      98.51
              2484.30        40.       40.       40.       538.      89.    725.90       71.


SPECIAL BRIDGE

SB     HK         XKOR       COFQ      RDLEN      BWC       BWP      BAREA       SS
      1.25       1.60       3.00        0.0     25.00      0.50     130.00      0.0
    ELCHU      ELCHD
  2484.30    2484.30

*SECNO .390

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2496.22 HIGHER THAN COMPUTED ENERGY OF 2496.06
PRESSURE AND WEIR FLOW
```

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2614.45	2496.24	0.02	8550.	439.	130.	130.	2489.60	
ELTRD								
2489.70								
0.39	8985.	5401.	3366.	217.	0.45	2	627.	
2495.77	0.0	2603.	403.	178.	-0.00	0	2489.70	
11.47	0.0	2.07	8.36	1.22	0.0	2496.22	2489.30	
0.002492	0.040	0.110	0.040	0.120	0.0	-0.00	98.47	
	2484.30	12.	12.	12.	538.	89.	725.90	72.

CCHV= 0.100 CEHV= 0.800
*SECNO .400

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.40	8985.	4799.	4077.	109.	1.08	2	596.	
2495.84	0.0	1777.	339.	65.	0.63	0	2491.40	
9.84	0.0	2.70	12.04	1.68	0.19	2496.92	2491.00	
0.006508	0.040	0.110	0.040	0.100	0.51	-0.00	127.57	
	2486.00	50.	50.	50.	509.	87.	723.49	75.

CCHV= 0.100 CEHV= 0.500
*SECNO .790

BALD CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.79	8520.	8.	3944.	4568.	1.35	13	377.	
2511.02	2510.55	8.	299.	1304.	0.27	10	2509.70	
9.92	0.0	0.99	13.17	3.50	15.32	2512.37	2506.70	
0.009451	0.040	0.110	0.040	0.110	0.13	-0.00	171.86	
	2501.10	1980.	1980.	1980.	32.	345.	548.59	161.

CCHV= 0.100 CEHV= 0.800
*SECNO .790

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2516.70 ELREA= 2517.00

0.79	8520.	0.	8520.	0.	3.18	2	82.	
2511.39	0.0	0.	595.	0.	1.83	0	2513.30	
10.19	0.0	0.0	14.32	0.0	0.73	2514.57	2506.60	
0.008877	0.040	0.110	0.035	0.110	1.47	-0.00	148.00	
	2501.20	80.	80.	80.	41.	41.	230.00	163.

```
SPECIAL BRIDGE

SB      HK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA       SS
      1.25        1.60      3.00        0.0     64.00      0.50     838.00      0.0
    ELCHU      ELCHD
  2501.20    2501.20

CCHV=   0.100 CEHV=   0.500
*SECNO .790

*** GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.=   2511.29 BRIDGE VELOCITY=,      13.30
     CALCULATED CHANNEL AREA=,      641.
     EGPRS      EGLWC        H3      QWEIR       QPR      BAREA      TAREA       ELLC
   2513.95    2514.61      0.23         0.     8520.      838.       838.    2514.40

     ELTRD
   2517.20


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2517.20 ELREA=     2517.50

      0.79       8520.        0.       8520.        0.       2.99          0        82.
   2511.62        0.0         0.        614.        0.      -0.20          0      2513.30
     10.42        0.0        0.0       13.87       0.0       0.04    2514.61      2506.60
  0.008016      0.040      0.110       0.035      0.110       0.0        0.0       148.00
              2501.20       20.        20.        20.        41.        41.      230.00      164.


CCHV=   0.100 CEHV=   0.800
*SECNO .800

3301 HV CHANGED MORE THAN HVINS

      0.80       8520.       28.      3621.      4871.      0.87         15       402.
   2514.25    2512.91        21.       332.      1583.     -2.12         10    2512.10
     10.75        0.0       1.32      10.91       3.08      0.30    2515.12    2509.10
  0.007152      0.040      0.100      0.045      0.120      0.21      -0.00     164.20
              2503.50       40.        40.        40.        39.       363.    566.67      165.


*SECNO 1.170
      1.17       8070.     4442.      3512.       116.      0.75          5       571.
   2527.59        0.0      1635.       348.        87.     -0.12          0    2523.80
      9.29        0.0       2.72      10.09       1.34     13.21    2528.34    2524.30
  0.006004      0.040      0.100      0.040      0.120      0.01      -0.00     232.75
              2518.30       2015.      2015.      2015.       493.       78.    803.51      257.


*SECNO 1.490

3301 HV CHANGED MORE THAN HVINS

     BALD CREEK                  500 YR FLOOD          11/11/81
     MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
     ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
```

DEPTH / SLOPE	WSELK / WTN / ELMIN	VLOB / XNL / XLOBL	VCH / XNCH / XLCH	VROB / XNR / XLOBR	HL / OLOSS / WSDL	EG / CORAR / WSDR	LEFT/RIGHT SSTA / ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.49	7695.	1319.	5745.	631.	3.03	4	143.	
2543.67	2543.67	302.	359.	180.	2.28	8	2537.70	
10.67	0.0	4.37	15.99	3.51	12.96	2546.70	2538.90	
0.010436	0.040	0.100	0.040	0.120	1.82	-0.00	80.97	
	2533.00	1680.	1680.	1680.	84.	60.	224.07	314.
*SECNO 1.570								
3301 HV CHANGED MORE THAN HVINS								
1.57	7590.	1538.	5310.	742.	2.07	2	146.	
2549.51	0.0	356.	392.	214.	-0.96	0	2542.70	
11.51	0.0	4.32	13.55	3.47	4.78	2551.58	2543.90	
0.008444	0.040	0.100	0.045	0.120	0.10	-0.00	79.08	
	2538.00	510.	510.	510.	85.	61.	225.50	324.
*SECNO 1.580								
*** GR CARDS REPEATED								
1.58	7590.	1626.	5175.	790.	1.68	3	149.	
2550.23	0.0	404.	420.	244.	-0.39	0	2542.70	
12.23	0.0	4.02	12.32	3.24	0.29	2551.91	2543.90	
0.006371	0.040	0.100	0.045	0.120	0.04	-0.00	77.45	
	2538.00	40.	40.	40.	87.	62.	226.74	325.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	19.00	0.01	120.00	0.0

ELCHU	ELCHD
2537.50	2537.50

*SECNO 1.580

*** GR CARDS REPEATED
PRESS FLOW BECAUSE EGLWC OF 2551.91 EXCEEDS 1.5 DEPTH
6870 D.S. ENERGY OF 2551.91 HIGHER THAN COMPUTED ENERGY OF 2551.52
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2649.62	2551.91	0.00	6765.	866.	120.	120.	2543.80

ELTRD
2543.40

1.58	7590.	1627.	5172.	791.	1.67	3	149.
2550.24	0.0	405.	421.	245.	-0.01	0	2542.70
12.24	0.0	4.02	12.30	3.23	0.0	2551.91	2543.90
0.006338	0.040	0.100	0.045	0.120	0.0	-0.00	77.42

```
         2538.00      12.       12.       12.       87.       62.    226.76     325.


 CCHV=   0.100 CEHV=    0.800
 *SECNO 1.580
     1.58     7590.     1409.     5359.      822.      1.82         2      149.
  2550.27      0.0       407.      422.      246.      0.15         0   2542.70
    12.27      0.0       3.46     12.71      3.34      0.07   2552.10   2543.90
 0.006746     0.040     0.120     0.045     0.120      0.12     -0.00     77.36
           2538.00       10.       10.       10.       87.       62.    226.81     326.


 *SECNO 1.750

 3301 HV CHANGED MORE THAN HVINS

   BALD CREEK                           500 YR FLOOD         11/11/81
  MILE        Q          QLOB       QCH       QROB       HV        ITRIAL    TOPWID
  ELEV       CRIWS       ALOB       ACH       AROB       DHV       IDC       BANK ELEV
  DEPTH      WSELK       VLOB       VCH       VROB       HL        EG     LEFT/RIGHT
  SLOPE      WTN         XNL        XNCH      XNR        OLOSS     CORAR     SSTA
             ELMIN       XLOBL      XLCH      XLOBR      WSDL      WSDR      ENDST      VOL

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     1.75     7375.      557.     5240.     1578.      2.72         8      187.
  2562.42   2562.42      169.      338.      424.      0.89         8   2556.00
    12.02      0.0       3.31     15.52      3.72      7.74   2565.14   2556.60
 0.011733     0.041     0.120     0.045     0.120      0.71     -0.00     72.92
           2550.40      890.      890.      890.       74.      113.    259.91     346.


 CCHV=   0.100 CEHV=    0.500
 *SECNO 1.760

 *** GR CARDS REPEATED

 3301 HV CHANGED MORE THAN HVINS

     1.76     7375.      808.     4726.     1841.      1.47         5      242.
  2564.10      0.0       329.      395.      590.     -1.24         0   2556.00
    13.70      0.0       2.45     11.97      3.12      0.32   2565.57   2556.60
 0.005662     0.041     0.120     0.045     0.120      0.12     -0.00     23.00
           2550.40       40.       40.       40.      124.      118.    265.18     347.



 SPECIAL BRIDGE

 SB    HK        XKOR       COFQ      RDLEN      BWC       BWP      BAREA      SS
     1.25      1.60      3.00       0.0      31.00      0.50    345.00      0.0
   ELCHU     ELCHD
  2550.00   2550.00

 *SECNO 1.760

 *** GR CARDS REPEATED
 6870 D.S. ENERGY OF 2565.57 HIGHER THAN COMPUTED ENERGY OF 2565.47
 PRESSURE AND WEIR FLOW
```

E06

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2565.47	2565.12	0.07	4809.	2565.	345.	345.	2561.30	
ELTRD								
2560.40								
1.76	7375.	808.	4726.	1841.	1.47	4	242.	
2564.10	0.0	329.	395.	590.	0.00	0	2556.00	
13.70	0.0	2.45	11.97	3.12	0.0	2565.57	2556.60	
0.005664	0.041	0.120	0.045	0.120	0.0	-0.00	23.00	
	2550.40	12.	12.	12.	124.	118.	265.18	347.

CCHV= 0.100 CEHV= 0.800
*SECNO 1.760

1.76	7375.	761.	4751.	1863.	1.48	0	242.	
2564.16	0.0	335.	397.	596.	0.01	0	2556.00	
13.76	0.0	2.27	11.98	3.13	0.06	2565.64	2556.60	
0.005632	0.041	0.130	0.045	0.120	0.01	-0.00	23.00	
	2550.40	10.	10.	10.	124.	118.	265.36	348.

*SECNO 1.990

1.99	7095.	2707.	4249.	139.	1.57	7	408.	
2572.06	2571.60	923.	332.	92.	0.09	19	2566.10	
10.36	0.0	2.93	12.78	1.51	7.93	2573.63	2568.60	
0.009353	0.041	0.130	0.045	0.130	0.07	-0.00	163.74	
	2561.70	1115.	1115.	1115.	285.	123.	571.57	382.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.000

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.00	7095.	1281.	5801.	13.	0.93	3	350.	
2573.15	0.0	684.	682.	15.	-0.64	0	2567.90	
9.95	0.0	1.87	8.51	0.89	0.38	2574.08	2570.50	
0.004533	0.041	0.130	0.045	0.130	0.06	-0.00	168.58	
	2563.20	60.	60.	60.	281.	68.	518.46	384.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	30.00	1.10	400.00	4.40
ELCHU	ELCHD							
2563.70	2563.70							

CCHV= 0.100 CEHV= 0.500
*SECNO 2.000

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2580.96	2574.13	0.06	4161.	2941.	400.	400.	2570.50	
ELTRD								
2570.50								
2.00	7095.	1425.	5637.	33.	0.73	3	414.	
2573.76	0.0	831.	737.	52.	-0.20	0	2567.90	
10.56	0.0	1.72	7.65	0.65	0.41	2574.49	2570.50	
0.003301	0.041	0.130	0.045	0.130	0.0	-0.00	161.36	
	2563.20	26.	26.	26.	289.	125.	574.88	385.

*SECNO 2.000

*** GR CARDS REPEATED

2.00	7095.	1502.	5553.	40.	0.69	2	416.	
2573.85	0.0	853.	745.	59.	-0.05	0	2567.90	
10.65	0.0	1.76	7.45	0.68	0.04	2574.54	2570.50	
0.002439	0.041	0.110	0.040	0.110	0.00	-0.00	160.29	
	2563.20	15.	15.	15.	290.	126.	576.38	385.

*SECNO 2.180

3301 HV CHANGED MORE THAN HVINS

BALD CREEK			500 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.18	6750.	1520.	3804.	1426.	2.15	20	246.	
2584.86	2584.86	447.	247.	402.	1.47	8	2580.30	
11.06	0.0	3.40	15.39	3.55	4.19	2587.02	2580.10	
0.011025	0.041	0.110	0.040	0.120	0.73	-0.00	189.47	
	2573.80	945.	945.	945.	140.	106.	435.72	415.

*SECNO 2.190

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

2.19	6750.	1821.	3373.	1557.	1.15	4	257.	
2586.26	0.0	627.	285.	535.	-1.00	0	2580.30	
12.46	0.0	2.90	11.84	2.91	0.30	2587.42	2580.10	
0.005402	0.041	0.110	0.040	0.120	0.10	-0.00	184.38	
	2573.80	40.	40.	40.	145.	112.	441.09	416.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	14.00	0.20	80.00	0.0

ELCHU	ELCHD
2573.80	2573.80

*SECNO 2.190

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2587.42 HIGHER THAN COMPUTED ENERGY OF 2586.82

BALD CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.19	6750.	1823.	3369.	1558.	1.15	3	257.	
2586.27	0.0	629.	285.	536.	-0.01	0	2580.30	
12.47	0.0	2.90	11.81	2.90	0.0	2587.42	2580.10	
0.005368	0.041	0.110	0.040	0.120	0.0	-0.00	184.33	
	2573.80	12.	12.	12.	145.	112.	441.15	417.

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2763.14	2587.48	0.06	6387.	380.	80.	80.	2579.60

ELTRD
2580.00

*SECNO 2.190

*** GR CARDS REPEATED

2.19	6750.	1964.	2993.	1793.	0.77	3	260.	
2586.73	0.0	690.	298.	582.	-0.38	0	2580.30	
12.93	0.0	2.85	10.05	3.08	0.05	2587.50	2580.10	
0.004648	0.041	0.110	0.045	0.110	0.04	-0.00	182.65	
	2573.80	10.	10.	10.	147.	113.	442.92	417.

*SECNO 2.270

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.27	6550.	1463.	3885.	1203.	1.61	2	335.

2589.58	2589.58	500.	299.	423.	0.84	14	2585.40	
9.78	0.0	2.93	13.00	2.84	2.21	2591.19	2584.30	
0.009807	0.041	0.110	0.045	0.110	0.42	-0.00	129.20	
	2579.80	340.	340.	340.	175.	160.	464.04	428.

*SECNO 2.270

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

2.27	6550.	1716.	3476.	1358.	0.93	4	363.	
2590.61	0.0	664.	335.	581.	-0.68	0	2585.40	
10.81	0.0	2.58	10.38	2.34	0.28	2591.54	2584.30	
0.005379	0.041	0.110	0.045	0.110	0.07	-0.00	125.41	
	2579.80	40.	40.	40.	179.	184.	488.32	429.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.01	75.00	0.0
	ELCHU	ELCHD						
	2580.00	2580.00						

*SECNO 2.270

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2591.54 HIGHER THAN COMPUTED ENERGY OF 2591.21
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2780.10	2591.55	0.00	6186.	368.	75.	75.	2585.00

ELTRD
2585.00

2.27	6550.	1717.	3475.	1358.	0.93	3	363.	
2590.61	0.0	665.	335.	582.	-0.00	0	2585.40	
10.81	0.0	2.58	10.37	2.33	0.0	2591.54	2584.30	
0.005366	0.041	0.110	0.045	0.110	0.0	-0.00	125.39	
	2579.80	12.	12.	12.	179.	184.	488.43	430.

*SECNO 2.270

*** GR CARDS REPEATED

BALD CREEK			500 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.27	6550.	1465.	3632.	1453.	1.27	2	341.	
2590.51	0.0	536.	307.	456.	0.34	0	2586.10	
10.01	0.0	2.73	11.84	3.19	0.06	2591.78	2585.00	

0.007855	0.041	0.110	0.045	0.090	0.17	-0.00	128.36	
	2580.50	10.	10.	10.	176.	165.	469.40	430.

*SECNO 2.430

2.43	6150.	2132.	3451.	567.	1.15	3	384.	
2596.55	0.0	821.	307.	218.	-0.12	0	2592.20	
10.05	0.0	2.60	11.24	2.60	5.91	2597.69	2593.40	
0.008596	0.041	0.120	0.045	0.110	0.01	-0.00	206.45	
	2586.50	720.	720.	720.	269.	96.	590.59	452.

*SECNO 2.430

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

2.43	6150.	2779.	2584.	788.	0.41	3	444.	
2597.65	0.0	1150.	351.	306.	-0.74	0	2592.20	
11.15	0.0	2.42	7.36	2.57	0.29	2598.06	2593.40	
0.003081	0.041	0.090	0.045	0.080	0.07	-0.00	161.81	
	2586.50	60.	60.	60.	333.	111.	605.80	454.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	18.00	0.30	110.00	0.0

ELCHU	ELCHD
2586.30	2586.30

*SECNO 2.430

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2675.31	2598.07	0.02	5569.	599.	110.	110.	2592.50

ELTRD
2593.50

2.43	6150.	2870.	2457.	823.	0.33	2	463.	
2598.06	0.0	1284.	368.	344.	-0.08	0	2592.20	
11.56	0.0	2.24	6.68	2.39	0.33	2598.39	2593.40	
0.002389	0.041	0.090	0.045	0.080	0.0	-0.00	144.61	
	2586.50	12.	12.	12.	350.	113.	608.04	455.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.440

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.44	6150.	2016.	3506.	627.	1.43	3	358.	
2598.74	2598.74	666.	283.	173.	1.10	14	2595.00	
9.44	0.0	3.03	12.40	3.63	0.07	2600.17	2596.20	
0.011683	0.041	0.110	0.045	0.080	0.88	-0.00	230.11	
	2589.30	15.	15.	15.	265.	93.	588.15	455.

*SECNO 2.580

*** GR CARDS REPEATED
BALD CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.58	5775.	1743.	3641.	392.	1.69	6	356.	
2607.88	2607.85	652.	281.	169.	0.26	5	2604.20	
9.38	0.0	2.67	12.98	2.32	9.20	2609.57	2605.40	
0.012929	0.042	0.130	0.045	0.130	0.21	-0.00	232.07	
	2598.50	750.	750.	750.	263.	93.	587.93	474.

*SECNO 2.730

3301 HV CHANGED MORE THAN HVINS

2.73	5400.	3196.	1919.	286.	0.57	4	444.	
2616.12	0.0	1274.	200.	171.	-1.12	0	2611.40	
9.32	0.0	2.51	9.59	1.67	7.00	2616.69	2611.40	
0.006393	0.042	0.120	0.045	0.140	0.11	-0.00	269.64	
	2606.80	785.	785.	785.	367.	78.	714.08	499.

CCHV= 0.100 CEHV= 0.500
*SECNO 2.730

*** GR CARDS REPEATED

2.73	5400.	3267.	1833.	301.	0.46	2	459.	
2616.46	0.0	1398.	209.	194.	-0.11	0	2611.40	
9.66	0.0	2.34	8.78	1.55	0.23	2616.92	2611.40	
0.005066	0.042	0.120	0.045	0.140	0.01	-0.00	259.76	
	2606.80	40.	40.	40.	377.	82.	718.32	501.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.00	0.50	78.00	0.0
	ELCHU	ELCHD						

```
 2606.80   2606.80

*SECNO 2.730

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2616.92 HIGHER THAN COMPUTED ENERGY OF 2616.73
PRESSURE AND WEIR FLOW

    EGPRS     EGLWC        H3     QWEIR       QPR     BAREA     TAREA      ELLC
  2735.54   2616.95      0.03     5152.      256.       78.       78.   2610.60

    ELTRD
  2611.30


     2.73     5400.     3267.     1832.      301.      0.46         2      459.
  2616.46       0.0     1400.      209.      194.     -0.00         0   2611.40
     9.66       0.0      2.33      8.77      1.55       0.0   2616.92   2611.40
 0.005053     0.042     0.120     0.045     0.140       0.0     -0.00    259.65
            2606.80       12.       12.       12.      377.       82.    718.37      501.

*SECNO 2.730

*** GR CARDS REPEATED
     2.73     5400.     3288.     1828.      284.      0.45         0      461.
  2616.52       0.0     1417.      210.      198.     -0.01         0   2611.40
     9.72       0.0      2.32      8.70      1.44      0.05   2616.97   2611.40
 0.004937     0.042     0.120     0.045     0.150      0.00     -0.00    258.30
            2606.80       10.       10.       10.      378.       82.    718.95      501.

CCHV=   0.100 CEHV=    0.800
*SECNO 2.800

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

   BALD CREEK                     500 YR FLOOD      11/11/81
    MILE         Q      QLOB       QCH      QROB        HV    ITRIAL    TOPWID
    ELEV     CRIWS      ALOB       ACH      AROB       DHV       IDC    BANK ELEV
   DEPTH     WSELK      VLOB       VCH      VROB        HL        EG  LEFT/RIGHT
   SLOPE       WTN       XNL      XNCH       XNR     OLOSS     CORAR      SSTA
             ELMIN     XLOBL      XLCH     XLOBR      WSDL      WSDR     ENDST       VOL

     2.80     5225.     2794.     2167.      264.      1.08         3      402.
  2619.77       0.0      919.      174.      110.      0.63         0   2616.10
     8.27       0.0      3.04     12.46      2.40      3.38   2620.85   2616.10
 0.023118     0.042     0.160     0.060     0.160      0.50     -0.00    299.50
            2611.50      370.      370.      370.      337.       65.    701.26      514.

CCHV=   0.100 CEHV=    0.800
*SECNO 2.890
     2.89     4970.      892.     3697.      381.      1.23         4      236.
  2627.93       0.0      426.      361.      152.      0.15         0   2623.80
     9.43       0.0      2.10     10.24      2.51      8.18   2629.16   2623.20
 0.012021     0.043     0.160     0.060     0.160      0.12     -0.00     68.50
            2618.50      500.      500.      500.      170.       66.    304.37      527.
```

```
*SECNO 2.900

*** GR CARDS REPEATED
     2.90      4970.       720.      3882.       367.      1.67         4      232.
  2628.63   2628.41        338.       333.       127.      0.44        15   2625.10
     8.83       0.0        2.13      11.67      2.89      0.79   2630.30   2624.50
 0.014615     0.043       0.150      0.055     0.140      0.35     -0.00    70.30
             2619.80          60.        60.        60.       168.        64.   302.33      528.


SPECIAL BRIDGE

SB     HK         XKOR       COFQ      RDLEN      BWC       BWP      BAREA       SS
      1.25         1.60       3.00        0.0    23.00      0.01     120.00      0.0
    ELCHU      ELCHD
  2619.80    2619.80

CCHV=   0.100 CEHV=   0.500
*SECNO 2.900

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

     EGPRS      EGLWC         H3      QWEIR       QPR      BAREA      TAREA      ELLC
   2671.25    2630.31       0.00       3688.      1295.      120.       120.   2625.00

     ELTRD
   2626.20


     2.90      4970.      1352.      3117.       501.      0.53         2      246.
  2631.00       0.0        660.       435.       223.     -1.14         0   2625.30
    11.00       0.0        2.05       7.16       2.25      1.22   2631.52   2624.70
 0.002582     0.043       0.100      0.045      0.100       0.0     -0.00    63.78
             2620.00          12.        12.        12.       175.        71.   309.74      528.


CCHV=   0.100 CEHV=   0.800
*SECNO 2.900

*** GR CARDS REPEATED
     2.90      4970.      1122.      3357.       491.      0.64         2      246.
  2631.02       0.0        662.       436.       223.      0.11         0   2625.30
    11.02       0.0        1.70       7.71       2.20      0.04   2631.66   2624.70
 0.002982     0.043       0.130      0.045      0.110      0.09     -0.00    63.75
             2620.00          15.        15.        15.       175.        71.   309.78      529.


*SECNO 2.950

*** GR CARDS REPEATED
    BALD CREEK                    500 YR FLOOD          11/11/81
    MILE        Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
    ELEV        CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
    DEPTH       WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
```

SLOPE	WTN ELMIN	XNL XLOBL	XNCH XLCH	XNR XLOBR	OLOSS WSDL	CORAR WSDR	SSTA ENDST	VOL
2.95	4845.	904.	3566.	375.	1.07	2	237.	
2632.15	0.0	458.	371.	161.	0.43	0	2627.80	
9.65	0.0	1.98	9.60	2.32	1.22	2633.22	2627.20	
0.008561	0.043	0.150	0.055	0.150	0.35	-0.00	67.85	
	2622.50	260.	260.	260.	171.	67.	305.11	535.

CCHV= 0.100 CEHV= 0.800
*SECNO 3.050

*** GR CARDS REPEATED

3.05	4595.	684.	3586.	325.	1.42	3	232.	
2637.45	0.0	340.	333.	128.	0.35	0	2633.90	
8.85	0.0	2.01	10.75	2.54	5.37	2638.86	2633.30	
0.014741	0.044	0.160	0.060	0.160	0.28	-0.00	70.26	
	2628.60	490.	490.	490.	168.	64.	302.37	546.

CCHV= 0.100 CEHV= 0.500
*SECNO 3.200

3265 DIVIDED FLOW

BALD CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.20	4195.	2065.	1947.	183.	1.15	11	291.	
2651.29	2651.29	581.	161.	71.	-0.27	14	2648.60	
6.59	0.0	3.56	12.07	2.58	11.58	2652.44	2646.50	
0.014185	0.044	0.100	0.045	0.130	0.03	-0.00	37.23	
	2644.70	800.	800.	800.	252.	64.	353.52	560.

*SECNO 3.210

*** GR CARDS REPEATED

3265 DIVIDED FLOW

BALD CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2649.70 ELREA= 2652.90

3.21	4195.	2132.	2063.	0.	1.40	2	240.	
2652.40	2652.40	562.	159.	0.	0.25	8	2649.80	
6.50	0.0	3.79	13.00	0.0	0.92	2653.81	2647.70	
0.016807	0.044	0.100	0.045	0.130	0.13	-0.00	37.32	
	2645.90	60.	60.	60.	252.	15.	304.00	561.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	20.00	0.20	85.00	0.0

ELCHU	ELCHD
2645.90	2645.90

*SECNO 3.210

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2712.92	2653.91	0.10	3492.	709.	85.	85.	2650.20

ELTRD
2650.20

3.21	4195.	2289.	1666.	240.	0.52	3	328.	
2653.61	0.0	840.	194.	136.	-0.88	0	2649.80	
7.71	0.0	2.72	8.60	1.77	0.33	2654.13	2647.70	
0.005632	0.044	0.100	0.045	0.130	0.0	-0.00	36.15	
	2645.90	13.	13.	13.	253.	74.	363.67	562.

*SECNO 3.210

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BALD CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.21	4195.	1951.	2055.	189.	1.35	3	288.	
2653.44	2653.44	569.	160.	68.	0.83	15	2650.80	
6.54	0.0	3.43	12.86	2.77	0.13	2654.79	2648.70	
0.016308	0.044	0.110	0.045	0.130	0.41	-0.00	37.28	
	2646.90	15.	15.	15.	252.	62.	351.36	562.

B07

*SECNO 3.390

3.39	3745.	690.	3049.	6.	1.73	8	186.	
2667.24	2667.18	294.	262.	5.	0.38	8	2663.40	
7.24	0.0	2.35	11.64	1.13	13.99	2668.97	2665.00	
0.012670	0.044	0.130	0.045	0.150	0.19	-0.00	194.03	
	2660.00	970.	970.	970.	158.	28.	379.84	577.

THIS RUN EXECUTED 11/11/81 7:49:14

```
**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
**************************************************
```

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER
INDICATES MESSAGE IN SUMMARY OF ERRORS LIST/

BALD CREEK

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	0.120	0.	0.0	0.0	2476.4	2625.0	2483.64	0.0	2484.28	57.84	7.36	766.04	345.15
	0.120	0.	0.0	0.0	2476.4	4645.0	2485.00	0.0	2485.66	58.13	8.25	1303.80	609.21
	0.120	0.	0.0	0.0	2476.4	5755.0	2485.61	0.0	2486.29	58.12	8.62	1560.55	754.87
	0.120	0.	0.0	0.0	2476.4	9100.0	2487.04	0.0	2487.81	59.33	9.68	2214.41	1181.38
	0.120	60.	0.0	0.0	2476.4	2625.0	2483.90	0.0	2484.56	36.53	7.58	835.68	434.29
	0.120	60.	0.0	0.0	2476.4	4645.0	2485.23	0.0	2486.01	40.71	9.06	1350.02	728.02
	0.120	60.	0.0	0.0	2476.4	5755.0	2485.83	0.0	2486.66	42.15	9.68	1594.28	886.46
	0.120	60.	0.0	0.0	2476.4	9100.0	2487.28	0.0	2488.18	43.26	10.91	2326.05	1383.58
	0.120	28.	2484.0	2483.9	2476.4	2625.0	2485.14	0.0	2485.41	13.82	5.24	1314.94	706.14
*	0.120	28.	2484.0	2483.9	2476.4	4645.0	2486.49	0.0	2486.86	18.27	6.71	1879.53	1086.64
*	0.120	28.	2484.0	2483.9	2476.4	5755.0	2487.00	0.0	2487.44	21.14	7.48	2094.84	1251.54
	0.120	28.	2484.0	2483.9	2476.4	9100.0	2488.27	0.0	2488.85	26.37	9.08	2798.35	1772.00
	0.120	15.	0.0	0.0	2476.4	2625.0	2485.25	0.0	2485.43	12.55	4.39	1408.20	741.10
	0.120	15.	0.0	0.0	2476.4	4645.0	2486.65	0.0	2486.90	15.94	5.45	2027.42	1163.31
	0.120	15.	0.0	0.0	2476.4	5755.0	2487.19	0.0	2487.49	17.83	6.04	2282.05	1362.94
	0.120	15.	0.0	0.0	2476.4	9100.0	2488.46	0.0	2488.90	23.04	7.58	2890.28	1895.88
*	0.260	590.	0.0	0.0	2482.2	2600.0	2488.90	2488.90	2489.97	76.39	9.03	568.18	297.48
*	0.260	590.	0.0	0.0	2482.2	4620.0	2490.09	2490.09	2491.25	80.69	10.35	1019.17	514.30
*	0.260	590.	0.0	0.0	2482.2	5720.0	2490.53	2490.53	2491.79	87.49	11.16	1192.63	611.53
*	0.260	590.	0.0	0.0	2482.2	9040.0	2491.49	2491.49	2493.14	109.91	13.41	1597.77	862.28
	0.390	595.	0.0	0.0	2484.3	2595.0	2492.10	0.0	2492.50	25.90	6.35	1105.83	509.93
	0.390	595.	0.0	0.0	2484.3	4590.0	2493.46	0.0	2493.90	26.95	7.34	1798.76	884.09
	0.390	595.	0.0	0.0	2484.3	5690.0	2494.09	0.0	2494.54	27.03	7.73	2152.92	1094.40
	0.390	595.	0.0	0.0	2484.3	8985.0	2495.64	0.0	2496.11	26.72	8.58	3101.32	1738.34
	0.390	40.	0.0	0.0	2484.3	2595.0	2492.25	0.0	2492.60	22.63	6.03	1178.47	545.46
	0.390	40.	0.0	0.0	2484.3	4590.0	2493.61	0.0	2494.01	24.31	7.06	1877.91	930.85
	0.390	40.	0.0	0.0	2484.3	5690.0	2494.23	0.0	2494.64	24.60	7.46	2238.56	1147.28
	0.390	40.	0.0	0.0	2484.3	8985.0	2495.77	0.0	2496.22	24.95	8.37	3182.10	1798.64
	0.390	12.	2489.7	2489.6	2484.3	2595.0	2492.25	0.0	2492.60	22.57	6.02	1179.94	546.19
*	0.390	12.	2489.7	2489.6	2484.3	4590.0	2493.61	0.0	2494.01	24.27	7.05	1879.46	931.79
	0.390	12.	2489.7	2489.6	2484.3	5690.0	2494.23	0.0	2494.64	24.55	7.45	2240.45	1148.46
	0.390	12.	2489.7	2489.6	2484.3	8985.0	2495.77	0.0	2496.22	24.92	8.36	3183.58	1799.73

007

E07

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
*	0.400	50.	0.0	0.0	2486.0	2595.0	2492.83	2492.83	2493.86	66.87	9.19	657.92	317.35
*	0.400	50.	0.0	0.0	2486.0	4590.0	2493.83	2493.83	2495.06	78.78	11.11	1120.17	517.13
*	0.400	50.	0.0	0.0	2486.0	5690.0	2494.36	2494.36	2495.57	76.63	11.54	1380.19	649.99
	0.400	50.	0.0	0.0	2486.0	8985.0	2495.84	0.0	2496.92	65.08	12.04	2180.92	1113.80
	0.790	1980.	0.0	0.0	2501.1	2470.0	2507.96	2507.95	2508.98	88.71	9.60	589.56	262.25
	0.790	1980.	0.0	0.0	2501.1	4360.0	2509.42	0.0	2510.33	75.17	10.12	1046.21	502.89
	0.790	1980.	0.0	0.0	2501.1	5400.0	2509.93	0.0	2510.93	78.34	10.83	1219.65	610.11
	0.790	1980.	0.0	0.0	2501.1	8520.0	2511.02	2510.55	2512.37	94.51	13.17	1611.85	876.38
	0.790	80.	0.0	0.0	2501.2	2470.0	2508.76	0.0	2509.42	31.92	6.50	380.19	437.18
	0.790	80.	0.0	0.0	2501.2	4360.0	2509.82	0.0	2511.17	51.12	9.35	466.50	609.80
	0.790	80.	0.0	0.0	2501.2	5400.0	2510.32	0.0	2512.08	59.52	10.63	507.91	699.96
	0.790	80.	0.0	0.0	2501.2	8520.0	2511.39	0.0	2514.57	88.77	14.32	595.17	904.28
	0.790	20.	2517.2	2514.4	2501.2	2470.0	2508.78	0.0	2509.43	31.52	6.47	381.67	439.95
	0.790	20.	2517.2	2514.4	2501.2	4360.0	2509.88	0.0	2511.21	49.44	9.25	471.32	620.06
	0.790	20.	2517.2	2514.4	2501.2	5400.0	2510.41	0.0	2512.12	56.86	10.48	515.12	716.10
	0.790	20.	2517.2	2514.4	2501.2	8520.0	2511.62	0.0	2514.61	80.16	13.87	614.32	951.59
*	0.800	40.	0.0	0.0	2503.5	2470.0	2510.41	2510.41	2511.35	104.02	9.30	606.17	242.18
*	0.800	40.	0.0	0.0	2503.5	4360.0	2511.40	2511.40	2512.61	128.88	11.38	912.69	384.06
*	0.800	40.	0.0	0.0	2503.5	5400.0	2511.84	2511.84	2513.17	139.66	12.29	1052.97	456.93
	0.800	40.	0.0	0.0	2503.5	8520.0	2514.25	2512.91	2515.12	71.52	10.91	1936.23	1007.48
	1.170	2015.	0.0	0.0	2518.3	2345.0	2525.21	0.0	2525.73	50.89	6.98	810.07	328.73
	1.170	2015.	0.0	0.0	2518.3	4140.0	2526.39	0.0	2526.87	43.31	7.53	1405.63	629.05
	1.170	2015.	0.0	0.0	2518.3	5120.0	2526.92	0.0	2527.40	41.10	7.79	1692.66	798.61
	1.170	2015.	0.0	0.0	2518.3	8070.0	2527.59	0.0	2528.34	60.04	10.09	2069.47	1041.53
*	1.490	1680.	0.0	0.0	2533.0	2240.0	2539.54	2539.54	2541.22	102.97	10.68	283.64	220.74
*	1.490	1680.	0.0	0.0	2533.0	3950.0	2541.21	2541.21	2543.32	99.31	12.67	499.53	396.36
*	1.490	1680.	0.0	0.0	2533.0	4885.0	2541.86	2541.86	2544.27	103.46	13.75	587.54	480.25
*	1.490	1680.	0.0	0.0	2533.0	7695.0	2543.67	2543.67	2546.70	104.36	15.99	840.76	753.26
	1.570	510.	0.0	0.0	2538.0	2210.0	2544.95	2544.54	2546.19	90.88	9.39	335.06	231.83
	1.570	510.	0.0	0.0	2538.0	3900.0	2546.63	0.0	2548.23	91.15	11.23	556.14	408.50
	1.570	510.	0.0	0.0	2538.0	4820.0	2547.48	0.0	2549.17	86.92	11.82	672.12	516.99
	1.570	510.	0.0	0.0	2538.0	7590.0	2549.51	0.0	2551.58	84.44	13.55	961.95	825.99
	1.580	40.	0.0	0.0	2538.0	2210.0	2545.69	0.0	2546.51	52.98	7.80	431.64	303.62
	1.580	40.	0.0	0.0	2538.0	3900.0	2547.43	0.0	2548.56	58.50	9.65	664.85	509.91
	1.580	40.	0.0	0.0	2538.0	4820.0	2548.22	0.0	2549.50	60.00	10.42	776.31	622.27
	1.580	40.	0.0	0.0	2538.0	7590.0	2550.23	0.0	2551.91	63.71	12.32	1068.19	950.93
	1.580	12.	2543.4	2543.8	2538.0	2210.0	2545.81	0.0	2546.57	48.92	7.59	447.15	315.97
	1.580	12.	2543.4	2543.8	2538.0	3900.0	2547.43	0.0	2548.56	58.13	9.63	666.49	511.50
	1.580	12.	2543.4	2543.8	2538.0	4820.0	2548.23	0.0	2549.50	59.68	10.40	777.88	623.91
	1.580	12.	2543.4	2543.8	2538.0	7590.0	2550.24	0.0	2551.91	63.38	12.30	1070.20	953.36
	1.580	10.	0.0	0.0	2538.0	2210.0	2545.85	0.0	2546.64	49.10	7.64	453.43	315.39
	1.580	10.	0.0	0.0	2538.0	3900.0	2547.48	0.0	2548.67	59.83	9.81	673.08	504.19
	1.580	10.	0.0	0.0	2538.0	4820.0	2548.27	0.0	2549.63	62.02	10.64	784.51	612.07
	1.580	10.	0.0	0.0	2538.0	7590.0	2550.27	0.0	2552.10	67.46	12.71	1074.40	924.10

F07

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
*	1.750	890.	0.0	0.0	2550.4	2150.0	2557.82	2557.82	2559.81	147.42	11.50	229.00	177.08
*	1.750	890.	0.0	0.0	2550.4	3795.0	2559.92	2559.92	2562.00	114.12	12.61	507.34	355.25
*	1.750	890.	0.0	0.0	2550.4	4690.0	2560.62	2560.62	2562.91	116.38	13.53	617.32	434.75
*	1.750	890.	0.0	0.0	2550.4	7375.0	2562.42	2562.42	2565.14	117.33	15.52	930.49	680.86
	1.760	40.	0.0	0.0	2550.4	2150.0	2558.71	0.0	2560.31	93.26	10.15	211.88	222.63
	1.760	40.	0.0	0.0	2550.4	3795.0	2560.76	0.0	2562.42	79.12	11.28	549.77	426.64
	1.760	40.	0.0	0.0	2550.4	4690.0	2561.29	0.0	2563.35	92.63	12.72	616.77	487.30
	1.760	40.	0.0	0.0	2550.4	7375.0	2564.10	0.0	2565.57	56.62	11.97	1314.63	980.09
	1.760	12.	2560.4	2561.3	2550.4	2150.0	2558.87	0.0	2560.40	86.11	9.91	217.01	231.69
	1.760	12.	2560.4	2561.3	2550.4	3795.0	2561.32	0.0	2562.65	59.61	10.23	621.32	491.54
	1.760	12.	2560.4	2561.3	2550.4	4690.0	2562.20	0.0	2563.39	52.34	10.22	890.74	648.25
	1.760	12.	2560.4	2561.3	2550.4	7375.0	2564.10	0.0	2565.57	56.64	11.97	1314.45	979.95
	1.760	10.	0.0	0.0	2550.4	2150.0	2559.83	0.0	2560.53	38.85	7.30	494.22	344.96
	1.760	10.	0.0	0.0	2550.4	3795.0	2561.82	0.0	2562.74	41.45	8.85	821.72	589.45
	1.760	10.	0.0	0.0	2550.4	4690.0	2562.26	0.0	2563.44	51.34	10.17	903.05	654.58
	1.760	10.	0.0	0.0	2550.4	7375.0	2564.16	0.0	2565.64	56.32	11.98	1328.03	982.71
*	1.990	1115.	0.0	0.0	2561.7	2075.0	2568.22	2568.22	2569.52	119.24	9.82	366.81	190.02
*	1.990	1115.	0.0	0.0	2561.7	3655.0	2569.52	2569.52	2571.16	127.25	11.78	610.12	324.01
	1.990	1115.	0.0	0.0	2561.7	4515.0	2570.29	2570.10	2571.90	113.07	12.04	778.66	424.60
	1.990	1115.	0.0	0.0	2561.7	7095.0	2572.06	2571.60	2573.63	93.53	12.78	1346.97	733.62
	2.000	60.	0.0	0.0	2563.2	2075.0	2569.50	0.0	2570.03	47.45	5.84	355.52	301.24
	2.000	60.	0.0	0.0	2563.2	3655.0	2571.07	0.0	2571.67	41.59	6.58	792.09	566.75
	2.000	60.	0.0	0.0	2563.2	4515.0	2571.69	0.0	2572.38	42.25	7.13	933.79	694.57
	2.000	60.	0.0	0.0	2563.2	7095.0	2573.15	0.0	2574.08	45.33	8.51	1380.11	1053.77
	2.000	26.	2570.5	2570.5	2563.2	2075.0	2569.54	0.0	2570.06	46.03	5.78	359.07	305.83
	2.000	26.	2570.5	2570.5	2563.2	3655.0	2572.00	0.0	2572.40	22.84	5.42	1014.26	764.83
	2.000	26.	2570.5	2570.5	2563.2	4515.0	2572.66	0.0	2573.12	23.85	5.91	1218.76	924.49
	2.000	26.	2570.5	2570.5	2563.2	7095.0	2573.76	0.0	2574.49	33.01	7.65	1619.39	1234.86
	2.000	15.	0.0	0.0	2563.2	2075.0	2569.72	0.0	2570.12	28.72	5.25	509.53	387.18
	2.000	15.	0.0	0.0	2563.2	3655.0	2572.05	0.0	2572.43	17.31	5.33	1031.00	878.62
	2.000	15.	0.0	0.0	2563.2	4515.0	2572.71	0.0	2573.15	18.08	5.81	1233.50	1061.94
	2.000	15.	0.0	0.0	2563.2	7095.0	2573.85	0.0	2574.54	24.39	7.45	1657.32	1436.53
*	2.180	945.	0.0	0.0	2573.8	1975.0	2581.74	2581.74	2583.08	83.44	10.14	380.49	216.21
*	2.180	945.	0.0	0.0	2573.8	3480.0	2583.10	2583.10	2584.70	90.25	12.08	674.46	366.32
*	2.180	945.	0.0	0.0	2573.8	4300.0	2583.61	2583.61	2585.36	96.47	13.05	794.14	437.79
*	2.180	945.	0.0	0.0	2573.8	6750.0	2584.86	2584.86	2587.02	110.25	15.39	1096.26	642.86
	2.190	40.	0.0	0.0	2573.8	1975.0	2582.69	0.0	2583.37	39.68	7.70	577.60	313.54
	2.190	40.	0.0	0.0	2573.8	3480.0	2584.20	0.0	2585.02	43.25	9.17	934.78	529.14
	2.190	40.	0.0	0.0	2573.8	4300.0	2584.81	0.0	2585.71	46.34	9.93	1080.93	631.68
	2.190	40.	0.0	0.0	2573.8	6750.0	2586.26	0.0	2587.42	54.02	11.84	1446.94	918.37
*	2.190	12.	2580.0	2579.6	2573.8	1975.0	2582.69	0.0	2583.37	39.13	7.66	581.87	315.71
	2.190	12.	2580.0	2579.6	2573.8	3480.0	2584.21	0.0	2585.02	43.04	9.15	936.68	530.42
	2.190	12.	2580.0	2579.6	2573.8	4300.0	2584.81	0.0	2585.71	46.08	9.91	1083.36	633.44
	2.190	12.	2580.0	2579.6	2573.8	6750.0	2586.27	0.0	2587.42	53.68	11.81	1450.45	921.32

G07

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	2.190	10.	0.0	0.0	2573.8	1975.0	2582.[illegible]	0.0	2583.43	37.82	6.84	633.24	321.14
	2.190	10.	0.0	0.0	2573.8	3480.0	2584.52	0.0	2585.08	39.06	7.94	1013.92	556.81
	2.190	10.	0.0	0.0	2573.8	4300.0	2585.16	0.0	2585.78	41.07	8.54	1172.74	670.98
	2.190	10.	0.0	0.0	2573.8	6750.0	2586.73	0.0	2587.50	46.48	10.05	1569.63	990.09
*	2.270	340.	0.0	0.0	2579.8	1920.0	2585.91	2585.91	2587.55	137.91	10.60	242.20	163.50
*	2.270	340.	0.0	0.0	2579.8	3380.0	2587.76	2587.76	2589.17	94.89	10.90	657.41	346.98
*	2.270	340.	0.0	0.0	2579.8	4175.0	2588.25	2588.25	2589.77	99.18	11.67	800.12	419.22
*	2.270	340.	0.0	0.0	2579.8	6550.0	2589.58	2589.58	2591.19	98.07	13.00	1222.02	661.43
	2.270	40.	0.0	0.0	2579.8	1920.0	2587.30	0.0	2587.95	44.90	7.14	527.13	286.54
	2.270	40.	0.0	0.0	2579.8	3380.0	2588.81	0.0	2589.49	43.51	8.13	970.51	512.41
	2.270	40.	0.0	0.0	2579.8	4175.0	2589.36	0.0	2590.10	45.97	8.74	1147.12	615.74
	2.270	40.	0.0	0.0	2579.8	6550.0	2590.61	0.0	2591.54	53.79	10.38	1580.14	893.09
	2.270	12.	2585.0	2585.0	2579.8	1920.0	2587.32	0.0	2587.95	43.88	7.08	534.58	289.83
	2.270	12.	2585.0	2585.0	2579.8	3380.0	2588.81	0.0	2589.49	43.34	8.11	972.34	513.43
	2.270	12.	2585.0	2585.0	2579.8	4175.0	2589.36	0.0	2590.10	45.81	8.73	1148.86	616.82
	2.270	12.	2585.0	2585.0	2579.8	6550.0	2590.61	0.0	2591.54	53.66	10.37	1581.80	894.20
	2.270	10.	0.0	0.0	2580.5	1920.0	2587.14	2586.63	2588.25	86.69	9.00	326.92	206.21
	2.270	10.	0.0	0.0	2580.5	3380.0	2588.64	0.0	2589.78	77.06	10.00	711.29	385.03
	2.270	10.	0.0	0.0	2580.5	4175.0	2589.22	0.0	2590.37	76.06	10.48	881.33	478.73
	2.270	10.	0.0	0.0	2580.5	6550.0	2590.51	0.0	2591.78	78.55	11.84	1298.73	739.04
	2.430	720.	0.0	0.0	2586.5	1810.0	2593.61	2593.28	2594.49	85.88	8.15	395.63	195.31
	2.430	720.	0.0	0.0	2586.5	3180.0	2594.74	0.0	2595.79	91.04	9.67	718.85	333.28
	2.430	720.	0.0	0.0	2586.5	3925.0	2595.24	0.0	2596.33	91.04	10.21	879.50	411.36
	2.430	720.	0.0	0.0	2586.5	6150.0	2596.55	0.0	2597.69	85.96	11.24	1346.23	663.32
	2.430	60.	0.0	0.0	2586.5	1810.0	2594.51	0.0	2594.83	30.31	5.44	650.99	328.74
	2.430	60.	0.0	0.0	2586.5	3180.0	2595.80	0.0	2596.15	30.24	6.23	1071.75	578.29
	2.430	60.	0.0	0.0	2586.5	3925.0	2596.33	0.0	2596.70	30.97	6.62	1263.45	705.33
	2.430	60.	0.0	0.0	2586.5	6150.0	2597.65	0.0	2598.06	30.81	7.36	1807.57	1108.06
	2.430	12.	2593.5	2592.5	2586.5	1810.0	2595.54	0.0	2595.68	12.03	3.83	982.82	521.94
*	2.430	12.	2593.5	2592.5	2586.5	3180.0	2596.47	0.0	2596.70	18.30	5.15	1319.13	743.45
	2.430	12.	2593.5	2592.5	2586.5	3925.0	2596.88	0.0	2597.14	20.79	5.69	1480.63	860.72
	2.430	12.	2593.5	2592.5	2586.5	6150.0	2598.06	0.0	2598.39	23.89	6.68	1995.85	1258.33
*	2.440	15.	0.0	0.0	2589.3	1810.0	2596.08	2596.08	2597.22	117.06	9.10	317.13	167.29
*	2.440	15.	0.0	0.0	2589.3	3180.0	2597.36	2597.36	2598.46	99.02	9.88	666.18	319.58
*	2.440	15.	0.0	0.0	2589.3	3925.0	2597.77	2597.77	2598.96	104.24	10.62	792.94	384.43
*	2.440	15.	0.0	0.0	2589.3	6150.0	2598.74	2598.74	2600.17	116.83	12.40	1121.28	560.99
*	2.580	750.	0.0	0.0	2598.5	1700.0	2605.12	2605.12	2606.33	124.42	9.21	286.99	152.41
*	2.580	750.	0.0	0.0	2598.5	2990.0	2606.48	2606.48	2607.70	105.43	10.10	642.06	291.20
*	2.580	750.	0.0	0.0	2598.5	3690.0	2606.78	2606.78	2608.25	123.87	11.34	733.88	331.55
	2.580	750.	0.0	0.0	2598.5	5775.0	2607.88	2607.85	2609.57	129.29	12.98	1101.44	507.88
	2.730	785.	0.0	0.0	2606.8	1595.0	2613.26	0.0	2613.84	73.60	7.67	548.37	185.91
	2.730	785.	0.0	0.0	2606.8	2800.0	2614.26	0.0	2614.89	78.51	8.91	890.59	316.01
	2.730	785.	0.0	0.0	2606.8	3455.0	2614.88	0.0	2615.45	67.82	8.83	1126.61	419.54
	2.730	785.	0.0	0.0	2606.8	5400.0	2616.12	0.0	2616.69	63.93	9.59	1645.13	675.39

H07

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	2.730	40.	0.0	0.0	2606.8	1595.0	2613.74	0.0	2614.09	43.25	6.24	705.51	242.54
	2.730	40.	0.0	0.0	2606.8	2800.0	2614.75	0.0	2615.16	49.79	7.47	1076.57	396.83
	2.730	40.	0.0	0.0	2606.8	3455.0	2615.27	0.0	2615.69	49.25	7.81	1281.67	492.34
	2.730	40.	0.0	0.0	2606.8	5400.0	2616.46	0.0	2616.92	50.66	8.78	1801.31	758.71
	2.730	12.	2611.3	2610.6	2606.8	1595.0	2613.74	0.0	2614.09	43.14	6.23	706.31	242.85
*	2.730	12.	2611.3	2610.6	2606.8	2800.0	2614.75	0.0	2615.16	49.67	7.46	1077.63	397.30
*	2.730	12.	2611.3	2610.6	2606.8	3455.0	2615.28	0.0	2615.69	48.67	7.77	1287.77	495.27
	2.730	12.	2611.3	2610.6	2606.8	5400.0	2616.46	0.0	2616.92	50.53	8.77	1803.11	759.69
	2.730	10.	0.0	0.0	2606.8	1595.0	2613.80	0.0	2614.13	41.24	6.13	722.48	248.37
	2.730	10.	0.0	0.0	2606.8	2800.0	2614.82	0.0	2615.21	47.71	7.35	1097.93	405.36
	2.730	10.	0.0	0.0	2606.8	3455.0	2615.34	0.0	2615.74	47.05	7.68	1308.48	503.72
	2.730	10.	0.0	0.0	2606.8	5400.0	2616.52	0.0	2616.97	49.37	8.70	1824.70	768.56
*	2.800	370.	0.0	0.0	2611.5	1550.0	2617.55	2617.55	2618.44	203.86	9.05	423.78	108.56
*	2.800	370.	0.0	0.0	2611.5	2715.0	2618.43	2618.43	2619.43	224.99	10.65	699.04	181.00
*	2.800	370.	0.0	0.0	2611.5	3345.0	2618.79	2618.79	2619.84	234.27	11.33	826.89	218.54
	2.800	370.	0.0	0.0	2611.5	5225.0	2619.77	0.0	2620.85	231.18	12.46	1202.83	343.65
	2.890	500.	0.0	0.0	2618.5	1475.0	2624.81	0.0	2625.47	100.54	6.62	282.20	147.10
	2.890	500.	0.0	0.0	2618.5	2585.0	2626.15	0.0	2627.05	108.28	8.15	528.24	248.42
	2.890	500.	0.0	0.0	2618.5	3190.0	2626.69	0.0	2627.68	110.38	8.73	651.23	303.64
	2.890	500.	0.0	0.0	2618.5	4970.0	2627.93	0.0	2629.16	120.21	10.24	938.63	453.29
	2.900	60.	0.0	0.0	2619.8	1475.0	2625.47	0.0	2626.43	147.58	7.91	205.50	121.42
	2.900	60.	0.0	0.0	2619.8	2585.0	2626.82	2626.40	2628.13	146.19	9.58	397.91	213.79
	2.900	60.	0.0	0.0	2619.8	3190.0	2627.36	2627.05	2628.81	147.57	10.28	508.98	262.60
	2.900	60.	0.0	0.0	2619.8	4970.0	2628.63	2628.41	2630.30	146.15	11.67	798.34	411.12
	2.900	12.	2626.2	2625.0	2620.0	1475.0	2627.65	0.0	2627.92	18.84	4.53	528.71	339.86
	2.900	12.	2626.2	2625.0	2620.0	2585.0	2629.31	0.0	2629.62	17.77	5.20	911.60	613.28
	2.900	12.	2626.2	2625.0	2620.0	3190.0	2629.89	0.0	2630.24	19.16	5.67	1049.00	728.80
	2.900	12.	2626.2	2625.0	2620.0	4970.0	2631.00	0.0	2631.52	25.82	7.16	1317.99	978.09
	2.900	15.	0.0	0.0	2620.0	1475.0	2627.67	0.0	2627.96	19.49	4.62	533.67	334.10
	2.900	15.	0.0	0.0	2620.0	2585.0	2629.33	0.0	2629.69	19.66	5.47	915.22	582.99
	2.900	15.	0.0	0.0	2620.0	3190.0	2629.91	0.0	2630.33	21.56	6.02	1052.31	686.99
	2.900	15.	0.0	0.0	2620.0	4970.0	2631.02	0.0	2631.66	29.82	7.71	1320.67	910.09
	2.950	260.	0.0	0.0	2622.5	1440.0	2628.55	0.0	2629.28	100.42	6.94	248.10	143.70
	2.950	260.	0.0	0.0	2622.5	2525.0	2630.16	0.0	2631.02	86.41	7.95	531.24	271.63
	2.950	260.	0.0	0.0	2622.5	3110.0	2630.79	0.0	2631.69	82.87	8.33	673.88	341.63
	2.950	260.	0.0	0.0	2622.5	4845.0	2632.15	0.0	2633.22	85.61	9.60	990.26	523.65
	3.050	490.	0.0	0.0	2628.6	1370.0	2634.34	0.0	2635.14	143.06	7.21	211.97	114.54
	3.050	490.	0.0	0.0	2628.6	2395.0	2635.59	2634.95	2636.74	153.31	8.96	392.24	193.43
	3.050	490.	0.0	0.0	2628.6	2955.0	2636.11	2635.59	2637.39	156.47	9.65	498.35	236.24
	3.050	490.	0.0	0.0	2628.6	4595.0	2637.45	0.0	2638.86	147.41	10.75	801.34	378.46
*	3.200	800.	0.0	0.0	2644.7	1260.0	2649.51	2649.51	2650.18	100.06	7.84	356.62	125.96
*	3.200	800.	0.0	0.0	2644.7	2195.0	2650.20	2650.20	2651.06	121.47	9.65	523.28	199.16
*	3.200	800.	0.0	0.0	2644.7	2705.0	2650.50	2650.50	2651.45	130.36	10.44	598.54	236.92
*	3.200	800.	0.0	0.0	2644.7	4195.0	2651.29	2651.29	2652.44	141.85	12.07	813.04	352.22

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
*	3.210	60.	0.0	0.0	2645.9	1260.0	2650.68	2650.68	2651.44	111.77	8.24	323.80	119.18
*	3.210	60.	0.0	0.0	2645.9	2195.0	2651.38	2651.38	2652.36	133.23	10.08	481.64	190.16
*	3.210	60.	0.0	0.0	2645.9	2705.0	2651.69	2651.69	2652.77	142.33	10.90	552.19	226.73
*	3.210	60.	0.0	0.0	2645.9	4195.0	2652.40	2652.40	2653.81	168.07	13.00	720.47	323.59
*	3.210	13.	2650.2	2650.2	2645.9	1260.0	2651.55	0.0	2651.82	35.75	5.36	522.00	210.74
	3.210	13.	2650.2	2650.2	2645.9	2195.0	2652.34	0.0	2652.74	48.88	6.95	704.61	313.95
	3.210	13.	2650.2	2650.2	2645.9	2705.0	2652.67	0.0	2653.15	55.07	7.68	786.21	364.50
	3.210	13.	2650.2	2650.2	2645.9	4195.0	2653.61	0.0	2654.13	56.32	8.60	1169.79	559.01
*	3.210	15.	0.0	0.0	2646.9	1260.0	2651.66	2651.66	2652.43	114.72	8.31	342.87	117.64
*	3.210	15.	0.0	0.0	2646.9	2195.0	2652.36	2652.36	2653.35	135.67	10.15	515.41	188.45
*	3.210	15.	0.0	0.0	2646.9	2705.0	2652.75	2652.75	2653.76	133.96	10.66	610.72	233.71
*	3.210	15.	0.0	0.0	2646.9	4195.0	2653.44	2653.44	2654.79	163.08	12.86	797.64	328.50
	3.390	970.	0.0	0.0	2660.0	1135.0	2664.36	2664.20	2665.44	157.75	8.47	158.75	90.37
	3.390	970.	0.0	0.0	2660.0	1970.0	2665.56	2665.39	2666.89	140.25	9.70	291.99	166.35
	3.390	970.	0.0	0.0	2660.0	2420.0	2665.97	2665.93	2667.51	145.08	10.54	349.94	200.91
	3.390	970.	0.0	0.0	2660.0	3745.0	2667.24	2667.18	2668.97	126.70	11.64	561.31	332.71

BALD CREEK

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	0.120	2625.	2483.6	0.0	0.0	0.0	375.47	0.0
	0.120	4645.	2485.0	1.4	0.0	0.0	414.13	0.0
	0.120	5755.	2485.6	0.6	0.0	0.0	431.36	0.0
	0.120	9100.	2487.0	1.4	0.0	0.0	475.35	0.0
	0.120	2625.	2483.9	0.0	0.3	0.0	370.00	60.00
	0.120	4645.	2485.2	1.3	0.2	0.0	404.17	60.00
	0.120	5755.	2485.8	0.6	0.2	0.0	419.42	60.00
	0.120	9100.	2487.3	1.5	0.2	0.0	476.10	60.00
	0.120	2625.	2485.1	0.0	1.2	0.0	401.93	28.00
*	0.120	4645.	2486.5	1.3	1.3	0.0	429.60	28.00
*	0.120	5755.	2487.0	0.5	1.2	0.0	430.61	28.00
	0.120	9100.	2488.3	1.3	1.0	0.0	479.27	28.00
	0.120	2625.	2485.2	0.0	0.1	0.0	421.21	15.00
	0.120	4645.	2486.6	1.4	0.2	0.0	474.09	15.00
	0.120	5755.	2487.2	0.5	0.2	0.0	475.80	15.00
	0.120	9100.	2488.5	1.3	0.2	0.0	479.88	15.00
*	0.260	2600.	2488.9	0.0	3.6	0.0	360.18	590.00
*	0.260	4620.	2490.1	1.2	3.4	0.0	394.12	590.00
*	0.260	5720.	2490.5	0.4	3.3	0.0	406.42	590.00
*	0.260	9040.	2491.5	1.0	3.0	0.0	433.78	590.00
	0.390	2595.	2492.1	0.0	3.2	0.0	478.60	595.00
	0.390	4590.	2493.5	1.4	3.4	0.0	538.06	595.00
	0.390	5690.	2494.1	0.6	3.6	0.0	595.02	595.00
	0.390	8985.	2495.6	1.6	4.1	0.0	624.91	595.00
	0.390	2595.	2492.2	0.0	0.2	0.0	483.41	40.00
	0.390	4590.	2493.6	1.4	0.1	0.0	545.11	40.00
	0.390	5690.	2494.2	0.6	0.1	0.0	597.78	40.00
	0.390	8985.	2495.8	1.5	0.1	0.0	627.38	40.00
	0.390	2595.	2492.2	0.0	0.0	0.0	483.51	12.00
*	0.390	4590.	2493.6	1.4	0.0	0.0	545.25	12.00
	0.390	5690.	2494.2	0.6	0.0	0.0	597.84	12.00
	0.390	8985.	2495.8	1.5	0.0	0.0	627.43	12.00
*	0.400	2595.	2492.8	0.0	0.6	0.0	447.79	50.00
*	0.400	4590.	2493.8	1.0	0.2	0.0	479.53	50.00
*	0.400	5690.	2494.4	0.5	0.1	0.0	499.09	50.00
	0.400	8985.	2495.8	1.5	0.1	0.0	595.92	50.00
	0.790	2470.	2508.0	0.0	15.1	0.0	295.64	1980.00
	0.790	4360.	2509.4	1.5	15.6	0.0	329.35	1980.00
	0.790	5400.	2509.9	0.5	15.6	0.0	343.09	1980.00
	0.790	8520.	2511.0	1.1	15.2	0.0	376.74	1980.00
	0.790	2470.	2508.8	0.0	0.8	0.0	82.00	80.00
	0.790	4360.	2509.8	1.1	0.4	0.0	82.00	80.00

K07

0.790	5400.	2510.3	0.5	0.4	0.0	82.00	80.00
0.790	8520.	2511.4	1.1	0.4	0.0	82.00	80.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	0.790	2470.	2508.8	0.0	0.0	0.0	82.00	20.00
	0.790	4360.	2509.9	1.1	0.1	0.0	82.00	20.00
	0.790	5400.	2510.4	0.5	0.1	0.0	82.00	20.00
	0.790	8520.	2511.6	1.2	0.2	0.0	82.00	20.00
*	0.800	2470.	2510.4	0.0	1.6	0.0	296.94	40.00
*	0.800	4360.	2511.4	1.0	1.5	0.0	319.87	40.00
*	0.800	5400.	2511.8	0.4	1.4	0.0	329.83	40.00
	0.800	8520.	2514.3	2.4	2.6	0.0	402.47	40.00
	1.170	2345.	2525.2	0.0	14.8	0.0	487.24	2015.00
	1.170	4140.	2526.4	1.2	15.0	0.0	528.14	2015.00
	1.170	5120.	2526.9	0.5	15.1	0.0	546.76	2015.00
	1.170	8070.	2527.6	0.7	13.3	0.0	570.76	2015.00
*	1.490	2240.	2539.5	0.0	14.3	0.0	126.65	1680.00
*	1.490	3950.	2541.2	1.7	14.8	0.0	133.26	1680.00
*	1.490	4885.	2541.9	0.7	14.9	0.0	135.87	1680.00
*	1.490	7695.	2543.7	1.8	16.1	0.0	143.10	1680.00
	1.570	2210.	2544.9	0.0	5.4	0.0	128.26	510.00
	1.570	3900.	2546.6	1.7	5.4	0.0	134.95	510.00
	1.570	4820.	2547.5	0.8	5.6	0.0	138.32	510.00
	1.570	7590.	2549.5	2.0	5.8	0.0	146.43	510.00
	1.580	2210.	2545.7	0.0	0.7	0.0	131.22	40.00
	1.580	3900.	2547.4	1.7	0.8	0.0	138.12	40.00
	1.580	4820.	2548.2	0.8	0.7	0.0	141.29	40.00
	1.580	7590.	2550.2	2.0	0.7	0.0	149.29	40.00
	1.580	2210.	2545.8	0.0	0.1	0.0	131.69	12.00
	1.580	3900.	2547.4	1.6	0.0	0.0	138.16	12.00
	1.580	4820.	2548.2	0.8	0.0	0.0	141.34	12.00
	1.580	7590.	2550.2	2.0	0.0	0.0	149.34	12.00
	1.580	2210.	2545.9	0.0	0.0	0.0	131.88	10.00
	1.580	3900.	2547.5	1.6	0.0	0.0	138.35	10.00
	1.580	4820.	2548.3	0.8	0.0	0.0	141.52	10.00
	1.580	7590.	2550.3	2.0	0.0	0.0	149.46	10.00
*	1.750	2150.	2557.8	0.0	12.0	0.0	95.47	890.00
*	1.750	3795.	2559.9	2.1	12.4	0.0	151.17	890.00
*	1.750	4690.	2560.6	0.7	12.3	0.0	161.25	890.00
*	1.750	7375.	2562.4	1.8	12.1	0.0	186.99	890.00
	1.760	2150.	2558.7	0.0	0.9	0.0	34.00	40.00
	1.760	3795.	2560.8	2.0	0.8	0.0	124.68	40.00
	1.760	4690.	2561.3	0.5	0.7	0.0	126.35	40.00
	1.760	7375.	2564.1	2.8	1.7	0.0	242.18	40.00
	1.760	2150.	2558.9	0.0	0.2	0.0	34.00	12.00
	1.760	3795.	2561.3	2.4	0.6	0.0	126.47	12.00
	1.760	4690.	2562.2	0.9	0.9	0.0	183.92	12.00
	1.760	7375.	2564.1	1.9	-0.0	0.0	242.18	12.00

MO7

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1.760	2150.	2559.8	0.0	1.0	0.0	149.93	10.00
	1.760	3795.	2561.8	2.0	0.5	0.0	178.47	10.00
	1.760	4690.	2562.3	0.4	0.1	0.0	184.87	10.00
	1.760	7375.	2564.2	1.9	0.1	0.0	242.36	10.00
*	1.990	2075.	2568.2	0.0	8.4	0.0	178.34	1115.00
*	1.990	3655.	2569.5	1.3	7.7	0.0	203.94	1115.00
	1.990	4515.	2570.3	0.8	8.0	0.0	243.17	1115.00
	1.990	7095.	2572.1	1.8	7.9	0.0	407.83	1115.00
	2.000	2075.	2569.5	0.0	1.3	0.0	85.57	60.00
	2.000	3655.	2571.1	1.6	1.5	0.0	220.25	60.00
	2.000	4515.	2571.7	0.6	1.4	0.0	239.80	60.00
	2.000	7095.	2573.1	1.5	1.1	0.0	349.87	60.00
	2.000	2075.	2569.5	0.0	0.0	0.0	85.76	26.00
	2.000	3655.	2572.0	2.5	0.9	0.0	267.71	26.00
	2.000	4515.	2572.7	0.7	1.0	0.0	329.41	26.00
	2.000	7095.	2573.8	1.1	0.6	0.0	413.52	26.00
	2.000	2075.	2569.7	0.0	0.2	0.0	202.62	15.00
	2.000	3655.	2572.0	2.3	0.0	0.0	277.80	15.00
	2.000	4515.	2572.7	0.7	0.1	0.0	330.11	15.00
	2.000	7095.	2573.9	1.1	0.1	0.0	416.09	15.00
*	2.180	1975.	2581.7	0.0	12.0	0.0	191.56	945.00
*	2.180	3480.	2583.1	1.4	11.1	0.0	233.06	945.00
*	2.180	4300.	2583.6	0.5	10.9	0.0	236.87	945.00
*	2.180	6750.	2584.9	1.3	11.0	0.0	246.25	945.00
	2.190	1975.	2582.7	0.0	0.9	0.0	226.50	40.00
	2.190	3480.	2584.2	1.5	1.1	0.0	241.29	40.00
	2.190	4300.	2584.8	0.6	1.2	0.0	245.79	40.00
	2.190	6750.	2586.3	1.5	1.4	0.0	256.71	40.00
*	2.190	1975.	2582.7	0.0	0.0	0.0	227.18	12.00
	2.190	3480.	2584.2	1.5	0.0	0.0	241.34	12.00
	2.190	4300.	2584.8	0.6	0.0	0.0	245.86	12.00
	2.190	6750.	2586.3	1.5	0.0	0.0	256.81	12.00
	2.190	1975.	2582.9	0.0	0.2	0.0	231.73	10.00
	2.190	3480.	2584.5	1.6	0.3	0.0	243.73	10.00
	2.190	4300.	2585.2	0.6	0.4	0.0	248.57	10.00
	2.190	6750.	2586.7	1.6	0.5	0.0	260.27	10.00
*	2.270	1920.	2585.9	0.0	3.0	0.0	132.67	340.00
*	2.270	3380.	2587.8	1.9	3.2	0.0	285.05	340.00
*	2.270	4175.	2588.3	0.5	3.1	0.0	298.42	340.00
*	2.270	6550.	2589.6	1.3	2.9	0.0	334.85	340.00
	2.270	1920.	2587.3	0.0	1.4	0.0	272.27	40.00
	2.270	3380.	2588.8	1.5	1.0	0.0	313.65	40.00
	2.270	4175.	2589.4	0.6	1.1	0.0	328.67	40.00
	2.270	6550.	2590.6	1.3	1.0	0.0	362.91	40.00

A08

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	2.270	1920.	2587.3	0.0	0.0	0.0	273.02	12.00
	2.270	3380.	2588.8	1.5	0.0	0.0	313.80	12.00
	2.270	4175.	2589.4	0.5	0.0	0.0	328.83	12.00
	2.270	6550.	2590.6	1.3	0.0	0.0	363.03	12.00
	2.270	1920.	2587.1	0.0	-0.2	0.0	188.73	10.00
	2.270	3380.	2588.6	1.5	-0.2	0.0	290.16	10.00
	2.270	4175.	2589.2	0.6	-0.1	0.0	305.76	10.00
	2.270	6550.	2590.5	1.3	-0.1	0.0	341.04	10.00
	2.430	1810.	2593.6	0.0	6.5	0.0	265.39	720.00
	2.430	3180.	2594.7	1.1	6.1	0.0	310.12	720.00
	2.430	3925.	2595.2	0.5	6.0	0.0	330.08	720.00
	2.430	6150.	2596.5	1.3	6.0	0.0	384.14	720.00
	2.430	1810.	2594.5	0.0	0.9	0.0	301.28	60.00
	2.430	3180.	2595.8	1.3	1.1	0.0	352.50	60.00
	2.430	3925.	2596.3	0.5	1.1	0.0	373.55	60.00
	2.430	6150.	2597.6	1.3	1.1	0.0	444.00	60.00
	2.430	1810.	2595.5	0.0	1.0	0.0	342.33	12.00
*	2.430	3180.	2596.5	0.9	0.7	0.0	379.41	12.00
	2.430	3925.	2596.9	0.4	0.6	0.0	411.17	12.00
	2.430	6150.	2598.1	1.2	0.4	0.0	463.43	12.00
*	2.440	1810.	2596.1	0.0	0.5	0.0	189.35	15.00
*	2.440	3180.	2597.4	1.3	0.9	0.0	303.26	15.00
*	2.440	3925.	2597.8	0.4	0.9	0.0	319.48	15.00
*	2.440	6150.	2598.7	1.0	0.7	0.0	358.04	15.00
*	2.580	1700.	2605.1	0.0	9.0	0.0	183.25	750.00
*	2.580	2990.	2606.5	1.4	9.1	0.0	300.09	750.00
*	2.580	3690.	2606.8	0.3	9.0	0.0	312.04	750.00
	2.580	5775.	2607.9	1.1	9.1	0.0	355.86	750.00
	2.730	1595.	2613.3	0.0	8.1	0.0	313.05	785.00
	2.730	2800.	2614.3	1.0	7.8	0.0	368.66	785.00
	2.730	3455.	2614.9	0.6	8.1	0.0	393.94	785.00
	2.730	5400.	2616.1	1.2	8.2	0.0	444.44	785.00
	2.730	1595.	2613.7	0.0	0.5	0.0	343.86	40.00
	2.730	2800.	2614.8	1.0	0.5	0.0	388.71	40.00
	2.730	3455.	2615.3	0.5	0.4	0.0	409.69	40.00
	2.730	5400.	2616.5	1.2	0.3	0.0	458.56	40.00
	2.730	1595.	2613.7	0.0	0.0	0.0	344.01	12.00
*	2.730	2800.	2614.8	1.0	0.0	0.0	388.83	12.00
*	2.730	3455.	2615.3	0.5	0.0	0.0	410.30	12.00
	2.730	5400.	2616.5	1.2	0.0	0.0	458.72	12.00
	2.730	1595.	2613.8	0.0	0.1	0.0	347.00	10.00
	2.730	2800.	2614.8	1.0	0.1	0.0	390.95	10.00
	2.730	3455.	2615.3	0.5	0.1	0.0	412.35	10.00
	2.730	5400.	2616.5	1.2	0.1	0.0	460.65	10.00

B08

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	2.800	1550.	2617.6	0.0	3.7	0.0	286.34	370.00
*	2.800	2715.	2618.4	0.9	3.6	0.0	342.68	370.00
*	2.800	3345.	2618.8	0.4	3.4	0.0	361.54	370.00
	2.800	5225.	2619.8	1.0	3.3	0.0	401.76	370.00
	2.890	1475.	2624.8	0.0	7.3	0.0	140.81	500.00
	2.890	2585.	2626.1	1.3	7.7	0.0	224.45	500.00
	2.890	3190.	2626.7	0.5	7.9	0.0	227.93	500.00
	2.890	4970.	2627.9	1.2	8.2	0.0	235.67	500.00
	2.900	1475.	2625.5	0.0	0.7	0.0	99.54	60.00
	2.900	2585.	2626.8	1.3	0.7	0.0	186.56	60.00
	2.900	3190.	2627.4	0.5	0.7	0.0	221.74	60.00
	2.900	4970.	2628.6	1.3	0.7	0.0	232.02	60.00
	2.900	1475.	2627.6	0.0	2.2	0.0	224.47	12.00
	2.900	2585.	2629.3	1.7	2.5	0.0	235.13	12.00
	2.900	3190.	2629.9	0.6	2.5	0.0	238.84	12.00
	2.900	4970.	2631.0	1.1	2.4	0.0	245.96	12.00
	2.900	1475.	2627.7	0.0	0.0	0.0	224.61	15.00
	2.900	2585.	2629.3	1.7	0.0	0.0	235.23	15.00
	2.900	3190.	2629.9	0.6	0.0	0.0	238.93	15.00
	2.900	4970.	2631.0	1.1	0.0	0.0	246.03	15.00
	2.950	1440.	2628.6	0.0	0.9	0.0	124.17	260.00
	2.950	2525.	2630.2	1.6	0.8	0.0	224.54	260.00
	2.950	3110.	2630.8	0.6	0.9	0.0	228.57	260.00
	2.950	4845.	2632.1	1.4	1.1	0.0	237.26	260.00
	3.050	1370.	2634.3	0.0	5.8	0.0	103.66	490.00
	3.050	2395.	2635.6	1.2	5.4	0.0	184.54	490.00
	3.050	2955.	2636.1	0.5	5.3	0.0	218.61	490.00
	3.050	4595.	2637.4	1.3	5.3	0.0	232.11	490.00
*	3.200	1260.	2649.5	0.0	15.2	0.0	240.34	800.00
*	3.200	2195.	2650.2	0.7	14.6	0.0	247.59	800.00
*	3.200	2705.	2650.5	0.3	14.4	0.0	250.79	800.00
*	3.200	4195.	2651.3	0.8	13.8	0.0	291.15	800.00
*	3.210	1260.	2650.7	0.0	1.2	0.0	223.31	60.00
*	3.210	2195.	2651.4	0.7	1.2	0.0	228.05	60.00
*	3.210	2705.	2651.7	0.3	1.2	0.0	230.13	60.00
*	3.210	4195.	2652.4	0.7	1.1	0.0	240.34	60.00
*	3.210	1260.	2651.6	0.0	0.9	0.0	229.24	13.00
	3.210	2195.	2652.3	0.8	1.0	0.0	239.39	13.00
	3.210	2705.	2652.7	0.3	1.0	0.0	247.68	13.00
	3.210	4195.	2653.6	0.9	1.2	0.0	327.52	13.00
*	3.210	1260.	2651.7	0.0	0.1	0.0	239.74	15.00
*	3.210	2195.	2652.4	0.7	0.0	0.0	247.26	15.00
*	3.210	2705.	2652.7	0.4	0.1	0.0	251.67	15.00
*	3.210	4195.	2653.4	0.7	-0.2	0.0	288.24	15.00

C08

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
3.390	1135.	2664.4	0.0	12.7	0.0	88.86	970.00
3.390	1970.	2665.6	1.2	13.2	0.0	132.10	970.00
3.390	2420.	2666.0	0.4	13.2	0.0	146.65	970.00
3.390	3745.	2667.2	1.3	13.8	0.0	185.81	970.00

SUMMARY OF ERRORS

```
CAUTION  SECNO=    0.120  PROFILE= 2  HYDRAULIC JUMP D.S.
CAUTION  SECNO=    0.120  PROFILE= 3  HYDRAULIC JUMP D.S.

CAUTION  SECNO=    0.260  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    0.260  PROFILE= 1
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    0.260  PROFILE= 1
 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=    0.260  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    0.260  PROFILE= 2
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    0.260  PROFILE= 2
 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=    0.260  PROFILE= 3  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    0.260  PROFILE= 3
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    0.260  PROFILE= 3
 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=    0.260  PROFILE= 4  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    0.260  PROFILE= 4
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    0.260  PROFILE= 4
 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=    0.390  PROFILE= 2  HYDRAULIC JUMP D.S.

CAUTION  SECNO=    0.400  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    0.400  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    0.400  PROFILE= 3  CRITICAL DEPTH ASSUMED

CAUTION  SECNO=    0.800  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    0.800  PROFILE= 1
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    0.800  PROFILE= 1
 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=    0.800  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    0.800  PROFILE= 2
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    0.800  PROFILE= 2
 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=    0.800  PROFILE= 3  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    0.800  PROFILE= 3
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    0.800  PROFILE= 3
 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=    1.490  PROFILE= 1  CRITICAL DEPTH ASSUMED
```

```
 CAUTION  SECNO=    1.490  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.490  PROFILE= 3  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.490  PROFILE= 4  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    1.750  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.750  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.750  PROFILE= 3  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.750  PROFILE= 4  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    1.990  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.990  PROFILE= 2  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    2.180  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.180  PROFILE= 1
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    2.180  PROFILE= 1
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    2.180  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.180  PROFILE= 2
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    2.180  PROFILE= 2
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    2.180  PROFILE= 3  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.180  PROFILE= 3
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    2.180  PROFILE= 3
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    2.180  PROFILE= 4  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.180  PROFILE= 4
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    2.180  PROFILE= 4
  20 TRIALS ATTEMPTED TO BALANCE WSEL

 CAUTION  SECNO=    2.190  PROFILE= 1  HYDRAULIC JUMP D.S.

 CAUTION  SECNO=    2.270  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.270  PROFILE= 1
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    2.270  PROFILE= 1
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    2.270  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.270  PROFILE= 2
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    2.270  PROFILE= 2
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    2.270  PROFILE= 3  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.270  PROFILE= 3
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    2.270  PROFILE= 3
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    2.270  PROFILE= 4  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    2.430  PROFILE= 2  HYDRAULIC JUMP D.S.

 CAUTION  SECNO=    2.440  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.440  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.440  PROFILE= 2
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    2.440  PROFILE= 2
  20 TRIALS ATTEMPTED TO BALANCE WSEL
```

```
 CAUTION  SECNO=    2.440  PROFILE= 3  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.440  PROFILE= 3
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    2.440  PROFILE= 3
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    2.440  PROFILE= 4  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    2.580  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.580  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.580  PROFILE= 3  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    2.730  PROFILE= 2  HYDRAULIC JUMP D.S.
 CAUTION  SECNO=    2.730  PROFILE= 3  HYDRAULIC JUMP D.S.

 CAUTION  SECNO=    2.800  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.800  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.800  PROFILE= 3  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    3.200  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    3.200  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    3.200  PROFILE= 3  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    3.200  PROFILE= 4  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    3.210  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    3.210  PROFILE= 1
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    3.210  PROFILE= 1
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    3.210  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    3.210  PROFILE= 2
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    3.210  PROFILE= 2
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    3.210  PROFILE= 3  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    3.210  PROFILE= 4  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    3.210  PROFILE= 1  HYDRAULIC JUMP D.S.

 CAUTION  SECNO=    3.210  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    3.210  PROFILE= 1
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    3.210  PROFILE= 1
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    3.210  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    3.210  PROFILE= 2
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    3.210  PROFILE= 2
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    3.210  PROFILE= 3  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    3.210  PROFILE= 3
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    3.210  PROFILE= 3
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    3.210  PROFILE= 4  CRITICAL DEPTH ASSUMED
```

F08

BALD CREEK

YANCEY CO NC FEMA STUDY

	500 YR FLOOD		100 YR FLOOD		50 YR FLOOD		10 YR FLOOD	
MILE	Q	ELEV	Q	ELEV	Q	ELEV	Q	ELEV
0.120	9100.	2487.0	5755.	2485.6	4645.	2485.0	2625.	2483.6
0.120	9100.	2488.5	5755.	2487.2	4645.	2486.6	2625.	2485.2
0.260	9040.	2491.5	5720.	2490.5	4620.	2490.1	2600.	2488.9
0.390	8985.	2495.6	5690.	2494.1	4590.	2493.5	2595.	2492.1
0.390	8985.	2495.8	5690.	2494.2	4590.	2493.6	2595.	2492.2
0.400	8985.	2495.8	5690.	2494.4	4590.	2493.8	2595.	2492.8
0.790	8520.	2511.0	5400.	2509.9	4360.	2509.4	2470.	2508.0
0.790	8520.	2511.6	5400.	2510.4	4360.	2509.9	2470.	2508.8
0.800	8520.	2514.3	5400.	2511.8	4360.	2511.4	2470.	2510.4
1.170	8070.	2527.6	5120.	2526.9	4140.	2526.4	2345.	2525.2
1.490	7695.	2543.7	4885.	2541.9	3950.	2541.2	2240.	2539.5
1.570	7590.	2549.5	4820.	2547.5	3900.	2546.6	2210.	2544.9
1.580	7590.	2550.2	4820.	2548.2	3900.	2547.4	2210.	2545.7
1.580	7590.	2550.3	4820.	2548.3	3900.	2547.5	2210.	2545.9
1.750	7375.	2562.4	4690.	2560.6	3795.	2559.9	2150.	2557.8
1.760	7375.	2564.1	4690.	2561.3	3795.	2560.8	2150.	2558.7
1.760	7375.	2564.2	4690.	2562.3	3795.	2561.8	2150.	2559.8
1.990	7095.	2572.1	4515.	2570.3	3655.	2569.5	2075.	2568.2
2.000	7095.	2573.1	4515.	2571.7	3655.	2571.1	2075.	2569.5
2.000	7095.	2573.9	4515.	2572.7	3655.	2572.0	2075.	2569.7
2.180	6750.	2584.9	4300.	2583.6	3480.	2583.1	1975.	2581.7
2.190	6750.	2586.3	4300.	2584.8	3480.	2584.2	1975.	2582.7
2.190	6750.	2586.7	4300.	2585.2	3480.	2584.5	1975.	2582.9
2.270	6550.	2589.6	4175.	2588.3	3380.	2587.8	1920.	2585.9
2.270	6550.	2590.5	4175.	2589.2	3380.	2588.6	1920.	2587.1
2.430	6150.	2596.5	3925.	2595.2	3180.	2594.7	1810.	2593.6

2.430	6150.	2598.1	3925.	2596.9	3180.	2596.5	1810.	2595.5
2.440	6150.	2598.7	3925.	2597.8	3180.	2597.4	1810.	2596.1
2.580	5775.	2607.9	3690.	2606.8	2990.	2606.5	1700.	2605.1
2.730	5400.	2616.1	3455.	2614.9	2800.	2614.3	1595.	2613.3
2.730	5400.	2616.5	3455.	2615.3	2800.	2614.8	1595.	2613.8
2.800	5225.	2619.8	3345.	2618.8	2715.	2618.4	1550.	2617.6
2.890	4970.	2627.9	3190.	2626.7	2585.	2626.1	1475.	2624.8
2.900	4970.	2628.6	3190.	2627.4	2585.	2626.8	1475.	2625.5
2.900	4970.	2631.0	3190.	2629.9	2585.	2629.3	1475.	2627.7
2.950	4845.	2632.1	3110.	2630.8	2525.	2630.2	1440.	2628.6
3.050	4595.	2637.4	2955.	2636.1	2395.	2635.6	1370.	2634.3
3.200	4195.	2651.3	2705.	2650.5	2195.	2650.2	1260.	2649.5
3.210	4195.	2652.4	2705.	2651.7	2195.	2651.4	1260.	2650.7
3.210	4195.	2653.4	2705.	2652.7	2195.	2652.4	1260.	2651.7
3.390	3745.	2667.2	2420.	2666.0	1970.	2665.6	1135.	2664.4

..