

THIS RUN EXECUTED 02/28/81 11:54:31

 NEC2 RELEASE DATED NOV 76 UPDATED JULY 1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53,54

11	YANCEY CO NC FEMA STUDY										5
12	10 YR FLOOD										10
13	BROWN CREEK										15
	SCB 11/4/80										
	FLOOD PROFILES										
J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG	
	0.	2.	0.	0.	0.01334	0.	0.0	0.	0.0	0.0	20
J2	MPROF	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.	895.	1545.	1900.	2915.	1900.	0.	0.	0.	0.	35
NC	0.150	0.130	0.045	0.1	0.5						40
X1	0.04	25.	206.	239.	0.	0.	0.	0.0	0.0	0.	45
GR	2638.4	0.	2621.2	45.	2620.7	61.	2618.7	86.	2619.8	97.	50
GR	2623.1	200.	2622.4	206.	2618.1	209.	2617.0	214.	2617.0	217.	55
GR	2618.7	222.	2618.9	235.	2621.2	239.	2620.5	252.	2623.6	267.	60
GR	2622.0	281.	2621.9	290.	2622.8	325.	2624.0	385.	2624.4	487.	65
GR	2626.2	547.	2634.6	575.	2634.4	590.	2634.0	592.	2638.4	603.	70
QT	5.	875.	1510.	1850.	2840.	1850.	0.	0.	0.	0.	75
NC	0.150	0.150	0.050	0.0	0.8						80
X1	0.15	17.	285.	309.	580.	580.	580.	0.0	-10.90	0.	85
GR	2654.3	0.	2648.3	11.	2641.8	133.	2639.9	210.	2639.0	280.	90
GR	2637.0	285.	2634.1	287.	2633.4	292.	2633.5	295.	2633.4	298.	95
GR	2634.1	303.	2638.2	309.	2638.5	325.	2643.8	362.	2646.0	385.	100
GR	2648.3	427.	2654.2	481.	0.0	0.	0.0	0.	0.0	0.	105
NC	0.100	0.120	0.045	0.0	0.0						110
QT	5.	855.	1470.	1800.	2765.	1800.	0.	0.	0.	0.	115
X1	0.27	17.	285.	309.	610.	610.	610.	0.0	0.0	0.	120
GR	2654.3	0.	2648.3	11.	2641.8	133.	2639.9	210.	2639.0	280.	125
GR	2637.0	285.	2634.1	287.	2633.4	292.	2633.5	295.	2633.4	298.	130
GR	2634.1	303.	2638.2	309.	2638.5	325.	2643.8	362.	2646.0	385.	135
GR	2648.3	427.	2654.2	481.	0.0	0.	0.0	0.	0.0	0.	140
QT	5.	850.	1460.	1790.	2745.	1790.	0.	0.	0.	0.	145
NC	0.0	0.0	0.0	0.0	0.5						150
X1	0.30	0.	0.	0.	150.	150.	150.	0.0	0.70	0.	155

B01

NC 0.100 0.130 0.040 0.0 0.0 160
 QT 5. 820. 1410. 1730. 2650. 1730. 0. 0. 0. 0. 165

X1 0.44 21. 77. 103. 680. 680. 680. 0.0 0.0 0. 170
 GR 2670.0 0. 2658.0 24. 2657.8 26. 2658.0 35. 2657.6 51. 175
 GR 2657.0 61. 2653.0 72. 2652.6 77. 2650.0 84. 2648.4 90. 180
 GR 2648.3 92. 2648.6 99. 2649.1 101. 2650.9 103. 2652.5 113. 185
 GR 2654.2 126. 2653.8 163. 2654.3 275. 2654.4 361. 2662.6 470. 190
 GR 2669.6 495. 0.0 0. 0.0 0. 0.0 0. 0.0 0. 195

X1 0.44 21. 84. 113. 40. 40. 40. 0.0 0.0 0. 200
 X3 10. 0.0 0.0 0. 0.0 0. 0.0 2655.7 2653.3 0. 205
 GR 2670.0 0. 2658.0 24. 2657.8 26. 2658.0 35. 2657.6 51. 210
 GR 2657.0 61. 2653.0 72. 2652.6 77. 2650.0 84. 2648.4 90. 215
 GR 2648.3 92. 2648.6 99. 2649.1 101. 2650.9 103. 2652.5 113. 220
 GR 2654.2 126. 2653.8 163. 2654.3 275. 2654.4 361. 2662.6 470. 225
 GR 2669.6 495. 0.0 0. 0.0 0. 0.0 0. 0.0 0. 230

X1 0.44 22. 84. 113. 1. 1. 1. 0.0 0.0 0. 235
 BT 4.0 84.0 2656.7 0.0 84.0 2656.7 2654.6 113.0 2656.4 2654.5 240
 BT 113.0 2656.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 245
 GR 2670.0 0. 2658.0 24. 2657.8 26. 2658.0 35. 2657.6 51. 250
 GR 2657.0 61. 2656.1 63. 2656.7 84. 2652.0 84. 2651.4 87. 255
 GR 2650.0 87. 2647.7 91. 2647.4 95. 2649.0 104. 2651.6 113. 260
 GR 2656.4 113. 2654.0 143. 2653.8 163. 2654.3 275. 2654.4 361. 265
 GR 2662.6 470. 2669.6 495. 0.0 0. 0.0 0. 0.0 0. 270

X1 0.44 0. 0. 0. 21. 21. 21. 0.0 0.0 0. 275
 X2 0. 0.0 0. 0.0 0.0 0.0 1. 0.0 0.0 0. 280
 NC 0.130 0.150 0.045 0.0 0.0 0.0 0. 0.0 0.0 0. 285

X1 0.44 21. 84. 113. 1. 1. 1. 0.0 0.0 0. 290
 X3 10. 0.0 0.0 0. 0.0 0. 0.0 2656.2 2653.8 0. 295
 GR 2670.0 0. 2658.0 24. 2657.8 26. 2658.0 35. 2657.6 51. 300
 GR 2657.0 61. 2653.0 72. 2652.6 77. 2650.0 84. 2648.4 90. 305
 GR 2648.3 92. 2648.6 99. 2649.1 101. 2650.9 103. 2652.5 113. 310
 GR 2654.2 126. 2653.8 163. 2654.3 275. 2654.4 361. 2662.6 470. 315
 GR 2669.6 495. 0.0 0. 0.0 0. 0.0 0. 0.0 0. 320

X1 0.44 21. 77. 103. 10. 10. 10. 0.0 0.0 0. 325
 GR 2670.0 0. 2658.0 24. 2657.8 26. 2658.0 35. 2657.6 51. 330
 GR 2657.0 61. 2653.0 72. 2652.6 77. 2650.0 84. 2648.4 90. 335
 GR 2648.3 92. 2648.6 99. 2649.1 101. 2650.9 103. 2652.5 113. 340
 GR 2654.2 126. 2653.8 163. 2654.3 275. 2654.4 361. 2662.6 470. 345
 GR 2669.6 495. 0.0 0. 0.0 0. 0.0 0. 0.0 0. 350
 QT 5. 790. 1360. 1665. 2545. 1665. 0. 0. 0. 0. 355

X1 0.60 19. 144. 167. 800. 800. 800. 0.0 -12.30 0. 360
 GR 2697.6 0. 2687.6 29. 2683.9 75. 2684.3 136. 2682.9 140. 365
 GR 2681.1 144. 2677.6 148. 2676.8 152. 2676.9 156. 2677.7 160. 370
 GR 2679.0 162. 2682.3 167. 2682.5 175. 2682.3 192. 2682.5 198. 375
 GR 2680.8 210. 2680.7 236. 2687.3 300. 2697.6 413. 2697.6 0. 380
 QT 5. 765. 1315. 1610. 2460. 1610. 0. 0. 0. 0. 385

C01

E01

GR	2728.5	445.	2724.6	455.	2726.0	461.	2727.4	465.	2732.9	476.	850
GR	2733.6	496.	2736.2	623.	2737.0	645.	2737.2	675.	2736.0	775.	855
GR	2734.7	850.	2734.6	885.	2735.5	1025.	2738.0	1075.	2738.2	1175.	860
GR	2740.0	1275.	2743.9	1875.	2750.0	1875.	0.0	0.	0.0	0.	865
NC	0.0	0.0	0.040	0.0	0.0						870
X1	1.12	28.	445.	465.	140.	140.	140.	0.0	0.0	0.	875
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2734.2	2734.0	0.	880
GR	2748.9	0.	2741.4	30.	2739.5	75.	2738.8	175.	2738.7	272.	885
GR	2733.0	287.	2732.0	296.	2734.1	391.	2733.5	404.	2730.0	442.	890
GR	2728.5	445.	2724.6	455.	2726.0	461.	2727.4	465.	2732.9	476.	895
GR	2733.6	496.	2736.2	623.	2737.0	645.	2737.2	675.	2736.0	775.	900
GR	2734.7	850.	2734.6	885.	2735.5	1025.	2738.0	1075.	2738.2	1175.	905
GR	2740.0	1275.	2743.9	1875.	2750.0	1875.	0.0	0.	0.0	0.	910
SB	1.25	1.60	3.00	0.	25.00	0.30	200.00	0.0	2724.6	2724.6	915
X1	1.12	0.	0.	0.	33.	33.	33.	0.0	0.0	0.	920
X2	0.	0.0	1.	2732.7	2734.5	0.0	0.	0.0	0.0	0.	925
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2734.7	2734.5	0.	930
BT	23.0	0.0	2748.9	0.0	30.0	2741.4	0.0	75.0	2739.5	0.0	935
BT	175.0	2738.8	0.0	272.0	2738.7	0.0	277.0	2736.9	0.0	442.0	940
BT	2734.7	0.0	442.0	2735.5	2732.7	473.0	2735.2	2732.2	473.0	2734.5	945
BT	0.0	537.0	2734.5	0.0	623.0	2736.2	0.0	645.0	2737.0	0.0	950
BT	675.0	2737.2	0.0	775.0	2736.0	0.0	850.0	2734.7	0.0	885.0	955
BT	2734.6	0.0	1025.0	2735.5	0.0	1075.0	2738.0	0.0	1175.0	2738.2	960
BT	0.0	1275.0	2740.0	0.0	1875.0	2743.9	0.0	1875.0	2750.0	0.0	965
NC	0.130	0.150	0.0	0.0	0.0						970
X1	1.12	26.	442.	476.	10.	10.	10.	0.0	0.0	0.	975
GR	2748.9	0.	2741.4	30.	2739.5	75.	2738.8	175.	2738.7	272.	980
GR	2733.0	287.	2732.0	296.	2734.1	391.	2733.5	404.	2730.0	442.	985
GR	2726.6	454.	2727.0	460.	2732.9	476.	2733.6	496.	2736.2	623.	990
GR	2737.0	645.	2737.2	675.	2736.0	775.	2734.7	850.	2734.6	885.	995
GR	2735.5	1025.	2738.0	1075.	2738.2	1175.	2740.0	1275.	2743.9	1875.	1000
GR	2750.0	1875.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	1005
QT	5.	660.	1125.	1375.	2095.	1375.	0.	0.	0.	0.	1010
X1	1.30	0.	0.	0.	1050.	1050.	1050.	0.0	24.60	0.	1015
QT	5.	630.	1075.	1315.	1995.	1315.	0.	0.	0.	0.	1020
NC	0.150	0.130	0.050	0.0	0.0						1025
X1	1.46	24.	412.	445.	765.	765.	765.	0.0	0.0	0.	1030
GR	2807.8	0.	2804.5	60.	2802.0	100.	2800.1	150.	2797.2	203.	1035
GR	2795.0	250.	2791.7	279.	2789.1	285.	2789.0	303.	2788.7	361.	1040
GR	2790.7	412.	2786.9	415.	2786.4	426.	2786.5	435.	2790.0	445.	1045
GR	2790.0	464.	2790.0	480.	2790.0	488.	2799.8	505.	2800.0	533.	1050
GR	2799.5	552.	2798.0	560.	2804.9	570.	2807.8	605.	0.0	0.	1055
X1	1.48	0.	0.	0.	100.	100.	100.	0.0	7.10	0.	1060
QT	5.	605.	1030.	1260.	1910.	1260.	0.	0.	0.	0.	1065
X1	1.60	0.	0.	0.	640.	640.	640.	0.0	24.90	0.	1070
QT	5.	580.	990.	1210.	1835.	1210.	0.	0.	0.	0.	1075

F01

FD1											
NC	0.150	0.150	0.050	0.0	0.0						1080
X1	1.71	29.	404.	444.	615.	615.	615.	0.0	-3.40	0.	1085
GR	2861.2	0.	2855.2	67.	2853.5	78.	2851.0	87.	2849.9	115.	1090
GR	2846.0	190.	2847.8	217.	2844.3	237.	2847.4	285.	2847.1	321.	1095
GR	2844.3	337.	2844.3	357.	2845.8	378.	2843.6	404.	2840.1	415.	1100
GR	2838.5	420.	2837.6	430.	2837.6	434.	2838.0	437.	2842.5	444.	1105
GR	2843.8	489.	2844.0	586.	2850.5	687.	2850.4	711.	2850.2	717.	1110
GR	2851.5	730.	2854.0	800.	2857.5	912.	2861.2	982.	0.0	0.	1115
X1	1.72	34.	404.	444.	40.	40.	40.	0.0	0.0	0.	1120
BT	6.0	414.0	2844.2	0.0	414.0	2844.8	0.0	422.0	2844.9	2842.8	1125
BT	444.0	2845.0	2843.5	447.0	2845.0	0.0	447.0	2844.4	0.0	0.0	1130
GR	2861.2	0.	2855.2	67.	2853.5	78.	2851.0	87.	2849.9	115.	1135
GR	2846.0	190.	2847.8	217.	2844.3	237.	2847.4	285.	2847.1	321.	1140
GR	2844.3	337.	2844.3	357.	2845.8	378.	2843.6	404.	2844.2	414.	1145
GR	2844.8	414.	2844.9	422.	2838.8	422.	2838.5	429.	2837.6	434.	1150
GR	2838.5	440.	2840.5	444.	2845.0	444.	2845.0	447.	2844.4	447.	1155
GR	2843.1	466.	2843.8	489.	2844.0	586.	2850.5	687.	2850.4	711.	1160
GR	2851.5	730.	2854.0	800.	2857.5	912.	2861.2	982.	0.0	0.	1165
X1	1.72	0.	0.	0.	12.	12.	12.	0.0	0.0	0.	1170
X2	0.	0.0	0.	0.0	0.0	0.0	1.	0.0	0.0	0.	1175
NC	0.130	0.120	0.0	0.0	0.0						1180
X1	1.72	28.	404.	444.	10.	10.	10.	0.0	0.0	0.	1185
GR	2861.2	0.	2855.2	67.	2853.5	78.	2851.0	87.	2849.9	115.	1190
GR	2846.0	190.	2847.8	217.	2844.3	237.	2847.4	285.	2847.1	321.	1195
GR	2844.3	337.	2844.3	357.	2845.8	378.	2843.6	404.	2840.8	422.	1200
GR	2840.3	430.	2840.3	436.	2840.6	440.	2842.5	444.	2843.8	489.	1205
GR	2844.0	586.	2850.5	687.	2850.4	711.	2850.2	717.	2851.5	730.	1210
GR	2854.0	800.	2857.5	912.	2861.2	982.	0.0	0.	0.0	0.	1215
QT	5.	555.	945.	1155.	1750.	1155.	0.	0.	0.	0.	1220
NC	0.150	0.130	0.050	0.0	0.0						1225
X1	1.86	19.	180.	210.	715.	715.	715.	0.0	0.0	0.	1230
GR	2891.6	0.	2882.9	20.	2878.9	32.	2874.1	105.	2875.0	180.	1235
GR	2871.4	185.	2871.6	190.	2870.9	195.	2871.0	200.	2871.4	205.	1240
GR	2875.3	210.	2875.1	238.	2878.1	305.	2878.1	325.	2879.0	400.	1245
GR	2881.4	500.	2882.9	543.	2886.0	582.	2892.0	620.	0.0	0.	1250
EJ											1255

GD1

*PROF 1

CCHV= 0.100 CEHV= 0.500

*SECNO .040

2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	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
0.04	895.	152.	736.	7.	0.73	0	151.	
2621.37	2621.14	110.	98.	9.	0.50	18	2622.40	
4.37	0.0	1.38	7.54	0.83	0.0	2622.10	2621.20	
0.013193	0.0	0.150	0.045	0.130	0.0	-0.00	44.56	
	2617.00	0.	0.	0.	178.	34.	256.21	0.

CCHV= 0.100 CEHV= 0.800

*SECNO .150

0.15	875.	5.	861.	9.	0.93	4	51.	
2628.13	0.0	5.	110.	12.	0.20	0	2626.10	
5.63	0.0	0.98	7.79	0.75	6.80	2629.06	2627.30	
0.010453	0.050	0.150	0.050	0.150	0.16	-0.00	277.89	
	2622.50	580.	580.	580.	19.	32.	328.68	2.

*SECNO .270

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	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
0.27	855.	1.	854.	0.	1.71	4	25.	
2637.81	2637.81	1.	81.	0.	0.78	16	2637.00	
4.41	0.0	1.16	10.51	0.0	8.96	2639.52	2638.20	
0.022363	0.047	0.100	0.045	0.120	0.63	-0.00	282.98	
	2633.40	610.	610.	610.	14.	11.	308.42	4.

CCHV= 0.100 CEHV= 0.500

*SECNO .300

GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.30	850.	20.	805.	25.	0.60	3	106.	
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H01

26	226	26	-1.11	0	2637.70			
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H01

2640.37	0.0	26.	126.	26.	-1.11	0	2637.70	
6.27	0.0	0.78	6.39	0.95	1.34	2640.97	2638.90	
0.004778	0.047	0.100	0.045	0.120	0.11	-0.00	227.67	
	2634.10	150.	150.	150.	69.	36.	333.19	4.

*SECNO .44D

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QRCB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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	XL OBL	XLCH	XL OBR	WSDL	WSDR	ENDST	VOL

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

0.44	820.	0.	806.	14.	1.47	20	39.	
2652.69	2652.69	0.	82.	10.	0.87	11	2652.60	
4.39	0.0	0.02	9.81	1.42	5.39	2654.16	2650.90	
0.016141	0.045	0.100	0.040	0.130	0.43	-0.00	75.85	
	2648.30	680.	680.	680.	14.	24.	114.47	6.

*SECNO .44D

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2655.70 ELREA= 2653.30

0.44	820.	0.	815.	5.	0.77	3	48.	
2653.83	0.0	0.	115.	7.	-0.69	0	2650.00	
5.53	0.0	0.0	7.07	0.66	0.37	2654.60	2652.50	
0.006052	0.045	0.100	0.040	0.130	0.07	-0.00	84.00	
	2648.30	40.	40.	40.	15.	71.	169.11	6.

*SECNO .44D

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 4 MIN EL: RD= 2656.40 MAX EL: LC= 2654.60

0.44	820.	0.	816.	4.	0.51	2	123.	
2654.13	0.0	0.	142.	17.	-0.27	0	2656.70	
6.73	0.0	0.0	5.73	0.24	0.01	2654.63	2656.40	
0.004502	0.045	0.100	0.040	0.130	0.03	-0.00	84.00	
	2647.40	1.	1.	1.	15.	137.	235.80	6.

*SECNO .44D

101

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 2656.40 MAX ELLC= 2654.60

0.44	820.	0.	811.	9.	0.48	1	151.
2654.25	0.0	0.	146.	29.	-0.03	0	2656.70
6.85	0.0	0.0	5.56	0.29	0.09	2654.73	2656.40
0.004176	0.044	0.100	0.040	0.130	0.00	-0.00	84.00
	2647.40	21.	21.	21.	15.	164.	262.33
							6.

*SECNO .440

3265 DIVIDED FLOW

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2656.20 ELREA= 2653.80

0.44	820.	0.	807.	13.	0.63	4	161.
2654.18	2652.74	0.	125.	33.	0.16	14	2650.00
5.88	0.0	0.0	6.44	0.38	0.00	2654.81	2652.50
0.005666	0.044	0.130	0.045	0.150	0.08	-0.00	84.00
	2648.30	1.	1.	1.	15.	149.	247.58
							7.

*SECNO .440

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.44	820.	9.	755.	56.	0.52	4	251.	
2654.35	2652.69	10.	125.	88.	-0.11	15	2652.60	
6.05	0.0	0.90	6.02	0.64	0.05	2654.87	2650.90	
0.004389	0.044	0.130	0.045	0.150	0.01	-0.00	68.28	
	2648.30	10.	10.	10.	22.	230.	319.69	
							7.	

*SECNO .600

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XLN	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

101

48.

J01

0.60	790.	0.	742.	47.	1.26	20	68.	
2669.54	2669.54	1.	80.	38.	0.75	16	2668.80	
5.04	0.0	0.72	9.30	1.23	6.09	2670.80	2670.00	
0.016919	0.045	0.130	0.045	0.150	0.37	-0.00	142.36	
	2664.50	800.	800.	800.	13.	92.	247.05	10.

*SECNO .720

3301 HV CHANGED MORE THAN HVINS

0.72	765.	2.	677.	86.	0.68	5	113.	
2677.56	0.0	2.	96.	80.	-0.58	0	2676.10	
5.76	0.0	0.77	7.03	1.07	7.38	2678.24	2677.30	
0.007860	0.045	0.130	0.045	0.150	0.06	-0.00	140.75	
	2671.80	660.	660.	660.	15.	99.	254.08	12.

*SECNO .730

*** GR CARDS REPEATED

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	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=	2684.20	ELREA=	2682.50				
0.73	765.	0.	681.	84.	0.71	20	110.	
2682.53	2682.53	0.	95.	77.	0.03	8	2681.10	
5.73	0.0	0.0	7.14	1.09	0.32	2683.23	2682.30	
0.008208	0.045	0.130	0.045	0.150	0.01	-0.00	144.00	
	2676.80	40.	40.	40.	12.	98.	253.70	12.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	17.00	0.40	98.00	0.0
	ELCHD	ELCHD						
	2676.80	2676.80						

*SECNO .730

*** GR CARDS REPEATED
 PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	GPR	BAREA	TAREA	ELLC
2684.04	2683.57	0.08	57.	707.	98.	98.	2682.70
	ELTRD						
	2683.00						

K01

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELREA=								2684.70	ELREA=	2683.00
0.73	765.	0.	619.	146.	0.35	2	119.			
2683.46	0.0	0.	117.	163.	-0.35	0	2681.10			
6.66	0.0	0.0	5.29	0.89	0.59	2683.82	2682.30			
0.003423	0.045	0.130	0.045	0.150	0.0	-0.00	144.00			
	2676.80	26.	26.	26.	12.	107.	262.87		12.	

*SECNO .730

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	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

0.73	765.	0.	704.	60.	1.17	20	68.		
2683.95	2683.95	0.	78.	39.	0.82	15	2683.30		
4.95	0.0	0.65	9.05	1.53	0.06	2685.13	2684.50		
0.016381	0.045	0.130	0.045	0.120	0.41	-0.00	142.55		
	2679.00	10.	10.	10.	13.	92.	247.81		12.

*SECNO .800

GR CARDS REPEATED

3265 DIVIDED FLOW

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	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

0.80	750.	0.	695.	55.	1.19	4	67.		
2691.69	2691.69	0.	77.	37.	0.01	5	2691.10		
4.89	0.0	0.62	9.08	1.50	5.30	2692.88	2692.30		
0.016772	0.045	0.130	0.045	0.120	0.01	-0.00	142.68		
	2686.80	320.	320.	320.	13.	92.	247.25		13.

*SECNO .930

BROWN CREEK		10 YR FLOOD			02/28/81		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID

L01

CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
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LD1									
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	ENDST	VOL
	ELMIN	XLOBL	XLCH	XL0BR	WSDL	WSDR			
7185 MINIMUM SPECIFIC ENERGY 3720 CRITICAL DEPTH ASSUMED									
0.93	725.	0.	725.	0.	1.18	11	36.		
2706.46	2706.46	0.	83.	0.	-0.00	15	2710.60		
4.06	0.0	0.0	8.73	0.0	12.22	2707.65	2706.50		
0.024072	0.045	0.130	0.045	0.100	0.00	-0.00	57.88		
	2702.40	615.	615.	615.	14.	22.	93.85		15.
*SECNO .930 BROWN CREEK 10 YR FLOOD 02/28/81									
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	ENDST	VOL
	ELMIN	XLOBL	XLCH	XL0BR	WSDL	WSDR			
7185 MINIMUM SPECIFIC ENERGY 3720 CRITICAL DEPTH ASSUMED									
3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2707.50 ELREA= 2708.60									
0.93	725.	107.	623.	0.	1.21	3	29.		
2707.58	2707.58	39.	66.	0.	0.02	19	2703.60		
5.18	0.0	2.59	9.45	0.0	0.66	2708.78	2704.40		
0.011885	0.045	0.130	0.045	0.100	0.01	-0.00	55.75		
	2702.40	40.	40.	40.	22.	8.	85.00		15.
SPECIAL BRIDGE									
SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	
	1.25	1.60	3.00	0.0	15.00	0.10	88.00	0.0	
ELCHU	ELCHD								
2701.70	2701.70								
*SECNO .930									
*** GR CARDS REPEATED PRESSURE AND WEIR FLOW									
EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC		
2709.02	2708.66	0.11	48.	671.	88.	88.	2707.60		
ELTRD									
2708.00									
3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2708.00 ELREA= 2709.10									
0.93	725.	107.	618.	0.	0.94	3	30.		
2708.08	0.0	47.	74.	0.	-0.26	0	2703.60		
5.68	0.0	2.30	8.39	0.0	0.24	2709.02	2704.40		

MD1									
0.024072	0.045	0.130	0.045	0.100	0.0	-0.00	54.79		
							85.00		15.

MO1

0.008103	0.045	0.130	0.045	0.100	0.0	-0.00	54.79	
	2702.40	12.	12.	12.	23.	8.	85.00	15.

*SECNO .930

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		10 YR FLOOD			D2/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRISWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		
0.93	725.	0.	712.	13.	0.25	3	49.	
2708.88	0.0	0.	176.	13.	-0.69	0	2710.60	
6.48	0.0	0.0	4.05	1.01	0.04	2709.13	2706.50	
0.002268	0.045	0.130	0.045	0.100	0.07	-0.00	53.27	
	2702.40	10.	10.	10.	19.	30.	102.44	15.

*SECNO .970

0.97	720.	0.	720.	0.	0.45	2	30.	
2709.38	0.0	0.	134.	0.	0.20	0	2714.00	
5.38	0.0	0.0	5.37	0.0	0.60	2709.83	2711.60	
0.004445	0.045	0.130	0.045	0.100	0.10	-0.00	116.00	
	2704.00	195.	195.	195.	16.	14.	146.07	15.

*SECNO .970

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2714.60 ELREA= 2713.30

0.97	720.	0.	720.	0.	1.00	2	18.	
2709.22	0.0	0.	90.	0.	0.56	0	2704.00	
5.22	0.0	0.0	8.04	0.0	0.11	2710.22	2704.40	
0.005988	0.045	0.130	0.045	0.100	0.28	-0.00	120.00	
	2704.00	20.	20.	20.	9.	9.	138.00	15.

SPECIAL BRIDGE

SB	HK	XKOR	COFR	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	18.00	0.10	170.00	0.0
ELCHD	ELCHD							
2704.00	2704.00							

*SECNO .970

*** G! CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.= 2709.20 BRIDGE VELOCITY= 7.74
CALCULATED CHANNEL AREA= 93.

EGPRS	EGWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
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A02

0.0 2710.24 0.04 0. 720. 170. 170. 2713.50

ELTRD
2713.80

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2715.10 ELREA= 2713.80

0.97	720.	0.	720.	0.	0.99	0	18.
2709.25	0.0	0.	90.	0.	-0.01	0	2704.00
5.25	0.0	0.0	7.98	0.0	0.02	2710.24	2704.40
0.006831	0.045	0.130	0.045	0.100	0.0	0.0	120.00
	2704.00	12.	12.	12.	9.	9.	138.00

*SECNO .970

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VL OB	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

0.97	720.	0.	720.	0.	1.30	20	30.
2710.69	2710.69	0.	79.	0.	0.31	11	2714.00
3.09	0.0	0.0	9.14	0.0	0.06	2711.99	2711.60
0.024384	0.045	0.130	0.045	0.100	0.15	-0.00	116.00
	2707.60	5.	5.	5.	16.	14.	146.39

*SECNO 1.090

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VL OB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

1.09	695.	0.	695.	0.	1.28	4	27.
2726.69	0.0	0.	76.	0.	-0.01	0	2727.00
5.09	0.0	0.0	9.09	0.0	15.98	2727.97	2729.90
0.025613	0.045	0.120	0.050	0.120	0.00	-0.00	442.62
	2721.60	640.	640.	640.	16.	11.	469.58

*SECNO 1.120

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VL OB	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

B02

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2734.20 ELREA= 2734.00

1.12	695.	0.	695.	0.	1.68	3	20.
2729.55	2729.55	0.	67.	0.	0.39	8	2728.50
4.95	0.0	0.0	10.39	0.0	2.88		2727.40
0.016843	0.045	0.120	0.040	0.120	0.20	-0.00	445.00
	2724.60	140.	140.	140.	10.	10.	465.00

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	25.00	0.30	200.00	0.0
	ELCHU	ELCHD						
	2724.60	2724.60						

*SECNO 1.120

*** GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.= 2729.53 BRIDGE VELOCITY= 5.71

CALCULATED CHANNEL AREA=		122.	
EGPRS	EGLWC	H3	QWEIR
0.0	2731.24	0.20	0.
			695.
			200.
			200.
			2732.70

ELTRD
2734.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2734.70 ELREA= 2734.50

1.12	695.	0.	695.	0.	1.49	0	20.
2729.75	0.0	0.	71.	0.	-0.19	0	2728.50
5.15	0.0	0.0	9.80	0.0	0.02	2731.24	2727.40
0.013837	0.045	0.120	0.040	0.120	0.0	-0.00	445.00
	2724.60	33.	33.	33.	10.	10.	465.00

*SECNO 1.120

BROWN CREEK

10 YR FLOOD

02/28/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TCWID
ELEV	CRWS	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

1.12	695.	4.	691.	0.	1.29	20	38.
2730.87	2730.87	4.	76.	0.	-0.20	15	2730.00
4.27	0.0	0.86	9.14	0.0	0.15	2732.16	2732.90
0.017373	0.045	0.130	0.040	0.150	0.02	-0.00	432.53
	2726.60	10.	10.	10.	26.	12.	470.50

*SECNO 1.300

C02

GR CARDS REPEATED

BROWN CREEK		10 YR FLOOD			02/28/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST		VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.30	660.	3.	657.	0.	1.24	10	37.		
2755.39	2755.39	3.	73.	0.	-0.05	8	2754.60		
4.19	0.0	0.81	8.97	0.0	18.19	2756.63	2757.50		
0.017268	0.044	0.130	0.040	0.150	0.00	-0.00	433.44		
	2751.20	1050.	1050.	1050.	26.	11.	470.27		19.

*SECNO 1.460

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		10 YR FLOOD			02/28/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST		VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.46	630.	68.	562.	0.	0.72	3	131.		
2789.61	2789.61	65.	78.	0.	-0.52	16	2790.70		
3.21	0.0	1.04	7.22	0.0	13.74	2790.34	2790.00		
0.018733	0.045	0.150	0.050	0.130	0.05	-0.00	283.82		
	2786.40	765.	765.	765.	745.	15.	443.89		21.

*SECNO 1.480

GR CARDS REPEATED

3265 DIVIDED FLOW

BROWN CREEK		10 YR FLOOD			02/28/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST		VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			

3685 20 TRIALS ATTEMPTED WSEL, CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.48	630.	67.	563.	0.	0.74	20	131.		
2796.70	2796.70	64.	77.	0.	0.01	5	2797.80		
3.20	0.0	1.04	7.28	0.0	1.89	2797.44	2797.10		

D02

0.044	0.045	0.150	0.050	0.130	0.01	-0.00	283.85		
						15	443.85		21.

D02

D.019145 0.045 0.150 0.050 0.130 0.01 -0.00 283.85
 2793.50 100. 100. 100. 145. 15. 443.85 21.

*SECNO 1.600

*** GR CARDS REPEATED

3265 DIVIDED FLOW

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.60 605 57. 548. 0. 0.74 4 129.
 2821.54 2821.54 58. 75. 0. 0.00 5 2822.70
 3.74 0.0 0.99 7.26 0.0 12.35 2822.28 2822.00
 D.019458 0.045 0.150 0.050 0.130 0.00 -0.00 283.99
 2818.40 640. 640. 640. 145. 15. 443.67 23.

*SECNO 1.710

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.71 580. 0. 580. 0. 1.17 9 29.
 2837.51 2837.51 0. 67. 0. 0.43 8 2840.20
 3.31 0.0 0.0 8.68 0.0 14.57 2838.68 2839.10
 0.029753 0.046 0.150 0.050 0.150 0.21 -0.00 412.46
 2834.20 615. 615. 615. 12. 18. 441.53 24.

*SECNO 1.720

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2844.20 MAX ELIC= 2843.50

3685 2D TRIALS ATTEMPTED WSEL, CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.72 580. 0. 580. 0. 1.40 20 22.
 2841.28 2841.28 0. 61. 0. 0.24 15 2843.60
 3.68 0.0 0.0 9.51 0.0 1.25 2842.68 2845.00

E02

0.072453 0.046 0.150 0.050 0.150 0.12 0.0 422.00
 444.00 25.

ED2

0.032653 0.046 0.150 0.050 0.150 0.12 0.0 422.00
 2837.60 40. 40. 40. 2. 20. 444.00 25.

*SECNO 1.720

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2844.20 MAX ELLC= 2843.50

1.72 580. 0. 580. 0. 0.80 3 22.
 2842.19 0.0 0. 81. 0. -0.61 0 2843.60
 4.59 0.0 0.0 7.17 0.0 0.24 2842.99 2845.00
 0.023946 0.046 0.150 0.050 0.150 0.06 -0.00 422.00
 2837.60 12. 12. 12. 2. 20. 444.00 25.

*SECNO 1.720

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

1.72 580. 0. 571. 9. 0.89 20 62.
 2843.20 2843.20 0. 75. 9. 0.09 14 2843.60
 2.90 0.0 0.0 7.63 1.01 0.19 2844.09 2842.50
 0.026725 0.046 0.130 0.050 0.120 0.05 -0.00 406.54
 2840.30 10. 10. 10. 17. 44. 468.39 25.

*SECNO 1.860

BROWN CREEK		10 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

1.86 555. 0. 555. 0. 1.21 4 27.
 2873.94 2873.94 0. 63. 0. 0.32 8 2875.00
 3.04 0.0 0.0 8.83 0.0 20.44 2875.15 2875.30
 0.030757 0.046 0.150 0.050 0.130 0.16 -0.00 181.47
 2870.90 715. 715. 715. 14. 13. 208.25 26.

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Table with multiple empty rows and columns for data entry.

F02

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G02

G02

THIS RUN EXECUTED 02/28/81 11:54:46

 HEC2 RELEASE DATED NOV 76 UPDATED JULY 1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53,54

T1	YANCEY CO NC	1260
T2	50 YR FLOOD	1265
T3	BROWN CREEK	1270

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ	
	0.	3.	0.	0.	0.01334	0.	0.0	0.	0.0	0.0	1275

J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	2.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	1280

H
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T1
T2
T3

J1

J2

H02

HD2

*PROF 2

CCHV= 0.100 CEHV= 0.500

*SECNO .040

2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

BROWN CREEK		50 YR FLOOD				02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VL0B	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST		VOL
0.04	1545.	375.	1127.	44.	0.90	0	213.		
2622.28	2622.06	216.	127.	32.	0.50	14	2622.40		
5.28	0.0	1.73	8.85	1.34	0.0	2623.18	2621.20		
0.013328	0.0	0.150	0.045	0.130	0.0	-0.00	42.18		
	2617.00	0.	0.	0.	180.	82.	304.72		0.

CCHV= 0.100 CEHV= 0.800

*SECNO .150

0.15	1510.	80.	1367.	64.	1.32	5	144.		
2629.41	2629.72	75.	741.	43.	0.42	11	2626.10		
6.91	0.0	1.06	9.68	1.49	7.21	2630.73	2627.30		
0.011612	0.050	0.150	0.050	0.150	0.34	-0.00	193.45		
	2622.50	580.	580.	580.	104.	41.	337.62		4.

*SECNO .270

BROWN CREEK		50 YR FLOOD				02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VL0B	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

0.27	1470.	68.	1344.	58.	1.42	3	131.		
2640.03	2640.03	51.	135.	35.	0.10	8	2637.00		
6.63	0.0	1.32	9.99	1.64	6.79	2641.45	2638.20		
0.010675	0.047	0.100	0.045	0.120	0.08	-0.00	204.56		
	2633.40	610.	610.	610.	92.	39.	335.71		8.

CCHV= 0.100 CEHV= 0.500

*SECNO .300

GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.30	1460.	221.	1142.	96.	0.61	2	185.		
2641.87	0.0	170.	162.	70.	-0.81	0	2637.70		
7.77	0.0	1.30	7.05	1.37	0.95	2642.48	2638.90		
0.004158	0.047	0.100	0.045	0.120	0.08	-0.00	158.33		

*PR

CCH

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CC

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2634.10 150. 150. 150. 139. 47. 343.67 9.

*SECNO .440

BROWN CREEK		50 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

0.44	1410.	23.	1202.	185.	1.03	20	299.	
2654.77	2654.77	14.	136.	196.	0.42	12	2652.60	
6.47	0.0	1.65	8.82	0.94	3.51	2655.81	2650.90	
0.006656	0.045	0.100	0.040	0.130	0.21	-0.00	67.13	
	2648.30	680.	680.	680.	23.	276.	365.95	15.

*SECNO .440

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2655.70 ELREA= 2653.30

0.44	1410.	0.	1124.	286.	0.60	4	291.	
2655.44	0.0	0.	162.	338.	-0.43	0	2650.00	
7.14	0.0	0.0	6.94	0.85	0.19	2656.04	2652.50	
0.003694	0.045	0.100	0.040	0.130	0.04	-0.00	84.00	
	2648.30	40.	40.	40.	15.	276.	374.85	15.

*SECNO .440

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 2656.40 MAX ELLC= 2654.60

0.44	1410.	0.	883.	527.	0.33	3	287.	
2655.75	0.0	0.	155.	378.	-0.27	0	2656.70	
8.35	0.0	0.0	5.70	1.40	0.01	2656.07	2656.40	
0.008435	0.045	0.100	0.040	0.130	0.03	-34.70	84.00	
	2647.40	1.	1.	1.	15.	280.	378.88	15.

*SECNO .440

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 2656.40 MAX ELLC= 2654.60

0.44	1410.	0.	797.	613.	0.25	2	293.	
2656.00	0.0	0.	155.	444.	-0.08	0	2656.70	
8.60	0.0	0.0	5.15	1.38	0.16	2656.24	2656.40	
0.006870	0.044	0.100	0.040	0.130	0.01	-42.06	84.00	
	2647.40	21.	21.	21.	15.	284.	382.26	15.

J02

*SECNO .440

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2656.20 ELREA= 2653.80

0.44	1410.	0.	1036.	374.	0.40	2	297.	
2655.93	0.0	0.	176.	466.	0.15	0	2650.00	
7.63	0.0	0.0	5.88	0.80	0.00	2656.32	2652.50	
0.003007	0.044	0.130	0.045	0.150	0.08	-0.00	84.00	
	2648.30	1.	1.	1.	15.	283.	381.28	15.

*SECNO .440

BROWN CREEK 50 YR FLOOD 02/28/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VL OB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.44	1410.	30.	946.	435.	0.33	2	319.	
2656.03	0.0	29.	169.	536.	-0.07	0	2652.60	
7.73	0.0	1.03	5.60	0.81	0.03	2656.36	2650.90	
0.002551	0.044	0.130	0.045	0.150	0.01	-0.00	63.68	
	2648.30	10.	10.	10.	26.	293.	382.62	15.

*SECNO .600

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK 50 YR FLOOD 02/28/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VL OB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.60	1360.	7.	1130.	224.	1.37	20	121.	
2670.87	2670.87	5.	110.	134.	1.04	16	2668.80	
6.37	0.0	1.39	10.26	1.66	3.95	2672.23	2670.00	
0.013988	0.045	0.130	0.045	0.150	0.52	-0.00	139.24	
	2664.50	800.	800.	800.	16.	104.	259.92	24.

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

*SECNO .720

0.72	1315.	9.	1042.	263.	0.93	4	126.	
2676.62	0.0	7.	120.	177.	-0.44	0	2676.10	
6.82	0.0	1.30	8.66	1.49	7.27	2679.55	2677.30	
0.008838	0.045	0.130	0.045	0.150	0.04	-0.00	137.96	
	2671.80	660.	660.	660.	18.	109.	264.26	29.

*SECNO .730

GR CARDS REPEATED BROWN CREEK 50 YR FLOOD 02/28/81

KD2

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= 2684.20 ELREA= 2682.50

0.73	1315.	0.	1111.	204.	1.41	20	115.	
2683.05	2683.05	0.	107.	124.	0.48	12	2681.10	
6.25	0.0	0.0	10.34	1.65	0.45	2684.46	2682.30	
0.014691	0.045	0.130	0.045	0.150	0.24	-0.00	144.00	
	2676.80	40.	40.	40.	12.	103.	258.78	29.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2681.85 NOT 2683.05
 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	D.0	17.00	0.40	98.00	D.0
	ELCHU	ELCHD						
	2676.80	2676.80						

*SECNO .730

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2687.52	2685.01	D.0	444.	872.	98.	98.	2682.70
	ELTRD						
	2683.00						

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2684.70 ELREA= 2683.00

0.73	1315.	0.	975.	340.	0.57	3	128.	
2684.44	0.0	0.	139.	260.	-0.84	0	2681.10	
7.64	0.0	0.0	7.00	1.31	0.55	2685.01	2682.30	
0.004756	0.045	0.130	0.045	0.150	0.0	-0.00	144.00	
	2676.80	26.	26.	26.	12.	117.	272.22	29.

*SECNO .730

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK 50 YR FLOOD 02/28/81

L02

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
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3301

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L02

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISWS	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

0.73	1315.	5.	1060.	250.	1.28	20	119.		
2685.17	2685.17	4.	106.	122.	0.71	15	2683.30		
6.17	0.0	1.25	10.05	2.04	0.08	2686.44	2684.50		
0.014181	0.045	0.130	0.045	0.120	0.35	-0.00	139.81		
	2679.00	10.	10.	10.	16.	104.	259.23	VOL	29.

*SECNO .800

*** GR CARDS REPEATED

BROWN CREEK		50 YR FLOOD			02/28/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISWS	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

0.80	1290.	5.	1045.	240.	1.27	4	119.		
2692.93	2692.93	4.	105.	119.	-0.01	5	2691.10		
6.13	0.0	1.22	10.00	2.02	4.54	2694.20	2692.30		
0.014222	0.045	0.130	0.045	0.120	0.00	-0.00	139.93		
	2686.80	320.	320.	320.	16.	103.	258.84	VOL	31.

*SECNO .930

BROWN CREEK		50 YR FLOOD			02/28/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISWS	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

0.93	1245.	0.	1238.	7.	1.58	14	44.		
2707.52	2707.52	0.	122.	4.	0.31	15	2710.60		
5.12	0.0	0.0	10.12	1.77	10.49	2709.11	2706.50		
0.020976	0.045	0.130	0.045	0.100	0.16	-0.00	55.86		
	2702.40	615.	615.	615.	16.	27.	99.40	VOL	33.

*SECNO .930

BROWN CREEK		50 YR FLOOD			02/28/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISWS	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	

MD2

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.93	1245.	174.	942.	129.	1.60	3	48.
2708.63	2708.63	55.	82.	40.	0.01	18	2703.60
6.23	0.0	3.15	11.52	3.26	0.66	2710.23	2704.40
0.013284	0.045	0.130	0.045	0.100	0.01	-0.00	53.75
	2702.40	40.	40.	40.	24.	24.	101.87
							33.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.10	88.00	0.0
	ELCHU	ELCHD						
	2701.70	2701.70						

*SECNO .930

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2713.60	2710.30	0.08	417.	829.	88.	88.	2707.60
ELTRD							
2708.00							
0.93	1245.	186.	890.	169.	0.88	3	54.
2709.96	0.0	79.	102.	64.	-0.72	0	2703.60
7.56	0.0	2.36	8.75	2.64	0.61	2710.84	2704.40
0.005722	0.045	0.130	0.045	0.100	0.0	-0.00	51.22
	2702.40	12.	12.	12.	26.	27.	104.85
							33.

*SECNO .930

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		50 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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
0.93	1245.	0.	1203.	42.	0.35	2	56.	
2710.57	0.0	0.	248.	31.	-0.52	0	2710.60	
8.17	0.0	0.0	4.86	1.39	0.03	2710.92	2706.50	
0.002314	0.045	0.130	0.045	0.100	0.05	-0.00	50.05	
	2702.40	10.	10.	10.	22.	34.	106.22	34.

*SECNO .970

0.97	1235.	0.	1235.	0.	0.69	2	32.
2711.04	0.0	0.	185.	0.	0.34	0	2714.00

S
368E
369E
372E

2

0.1
SPE
522
HYD

SB

*S

33

PR

3

A03

7.04	0.0	0.0	6.67	0.0	0.64	2711.73	2711.60	
0.005121	0.045	0.130	0.045	0.100	0.17	-0.00	116.00	
	2704.00	195.	195.	195.	16.	16.	147.52	35.

*SECNO .970

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2714.60 ELREA= 2713.30

0.97	1235.	0.	1235.	0.	1.79	2	18.	
2710.63	0.0	0.	115.	0.	1.10	0	2704.00	
6.63	0.0	0.0	10.74	0.0	0.13	2712.42	2704.40	
0.008923	0.045	0.130	0.045	0.100	0.55	-0.00	120.00	
	2704.00	20.	20.	20.	9.	9.	138.00	35.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	18.00	0.10	170.00	0.0
	ELCHU	ELCHD						
	2704.00	2704.00						

*SECNO .970

*** GR CARDS REPEATED CLASS A LOW FLOW

3420 BRIDGE W.S.= 2710.58 BRIDGE VELOCITY=, 10.48
CALCULATED CHANNEL AREA=, 118.

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
0.0	2712.46	0.08	0.	1235.	170.	170.	2713.50

ELTRD
2713.80

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2715.10 ELREA= 2713.80

0.97	1235.	0.	1235.	0.	1.75	0	18.	
2710.71	0.0	0.	116.	0.	-0.04	0	2704.00	
6.71	0.0	0.0	10.61	0.0	0.04	2712.46	2704.40	
0.008581	0.045	0.130	0.045	0.100	0.0	0.0	120.00	
	2704.00	12.	12.	12.	9.	9.	138.00	35.

*SECNO .970

BROWN CREEK		50 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	LOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 2D TRIALS ATTEMPTED WSEL, CWSEL

B03

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.97	1235.	0.	1235.	0.	1.79	20	38.	
2711.85	2711.85	0.	115.	1.	0.04	14	2714.00	
4.25	0.0	0.0	10.73	0.55	0.07	2713.63	2711.60	
0.022734	0.045	0.130	0.045	0.100	0.02	-0.00	116.00	
	2707.60	5.	5.	5.	16.	22.	154.07	35.

*SECNO 1.090

BROWN CREEK		50 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

1.09	1190.	5.	1185.	0.	1.79	5	39.	
2727.87	2727.87	4.	110.	0.	-0.00	14	2727.00	
6.27	0.0	1.13	10.74	0.0	15.34	2729.66	2729.90	
0.025351	0.045	0.120	0.050	0.120	0.00	-0.00	432.52	
	2721.60	640.	640.	640.	26.	13.	471.95	36.

*SECNO 1.120

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		50 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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= 2734.20 ELREA= 2734.00									
1.12	1190.	0.	1190.	0.	2.40	3	20.		
2730.99	2730.99	0.	96.	0.	0.61	5	2728.50		
6.39	0.0	0.0	12.42	0.0	2.67	2733.39	2727.40		
0.014897	0.045	0.120	0.040	0.120	0.31	-0.00	445.00		
	2724.60	140.	140.	140.	10.	10.	465.00	37.	

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	25.00	0.30	200.00	0.0
	ELCHU	ELCHD						
	2724.60	2724.60						

*SECNO 1.120

*** GR CARDS REPEATED

368
369
372
2
0.
*SI
71
37
C
3.
7
3
3

D03

0.014916	0.044	0.130	0.040	0.150	0.01	-0.00	420.56	
	2751.20	1050.	1050.	1050.	38.	14.	475.49	40.

*SECNO 1.460

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		50 YR FLOOD			D2/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC		
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

1.46	1075.	230.	834.	11.	0.83	20	197.	
2790.33	2790.33	145.	101.	14.	-0.70	19	2790.70	
3.93	0.0	1.59	8.27	0.74	12.75	2791.16	2790.00	
0.018854	0.045	0.150	0.050	0.130	0.07	-0.00	282.16	
	2786.40	165.	165.	165.	146.	60.	488.57	43.

*SECNO 1.480

*** GR CARDS REPEATED

3265 DIVIDED FLOW

BROWN CREEK		50 YR FLOOD			D2/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC		
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

1.48	1075.	232.	832.	11.	0.82	20	197.	
2797.44	2797.44	146.	101.	15.	-0.01	5	2797.80	
3.94	0.0	1.59	8.22	0.76	1.87	2798.26	2797.10	
0.018573	0.045	0.150	0.050	0.130	0.00	-0.00	282.14	
	2793.50	100.	100.	100.	146.	60.	488.59	44.

*SECNO 1.600

*** GR CARDS REPEATED

3265 DIVIDED FLOW

BROWN CREEK		50 YR FLOOD			D2/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC		

E03

WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
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MILE ELEV Q CRIWS ALOB VLOB ACH AROB DHV IDC BANK ELEV

E03

DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.60	1030.	212.	811.	7.	0.84	8	194.	
2822.26	2822.26	136.	98.	11.	0.01	5	2822.70	
3.86	0.0	1.56	8.23	0.64	12.09	2823.09	2822.00	
0.019219	0.045	0.150	0.050	0.130	0.01	-0.00	282.33	
	2818.40	640.	640.	640.	146.	60.	488.45	48.

*SECNO 1.710

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		50 YR FLOOD			02/28/81			
MILE	Q	QLOB	GCH	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								
1.71	990.	0.	990.	0.	1.49	9	34.	
2838.59	2838.59	0.	101.	0.	0.65	8	2840.20	
4.39	0.0	0.0	9.79	0.0	13.93	2840.08	2839.10	
0.027305	0.046	0.150	0.050	0.150	0.33	-0.00	409.05	
	2834.20	615.	615.	615.	15.	19.	443.21	50.

*SECNO 1.720

BROWN CREEK		50 YR FLOOD			02/28/81			
MILE	Q	QLOB	GCH	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

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2844.20 MAX ELLC= 2843.50

3685 20 TRIALS ATTEMPTED WSEL CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.72	990.	0.	990.	0.	1.98	20	22.	
2842.49	2842.49	0.	88.	0.	0.49	15	2843.60	
4.89	0.0	0.0	11.29	0.0	1.18	2844.47	2845.00	
0.031986	0.046	0.150	0.050	0.150	0.25	0.0	422.00	
	2837.60	40.	40.	40.	2.	20.	444.00	50.

*SECNO 1.720

*** GR CARDS REPEATED

3265 DIVIDED FLOW

F03

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		50 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2844.20 MAX ELLC= 2843.50

1.72	990.	0.	987.	3.	1.44	10	42.	
2843.52	2842.49	0.	102.	4.	-0.54	15	2843.60	
5.92	0.0	0.0	9.66	0.71	0.44	2844.96	2845.00	
0.042504	0.046	0.150	0.050	0.150	0.05	-7.99	422.00	
	2837.60	12.	12.	12.	2.	56.	479.53	50.

*SECNO 1.720

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

1.72	990.	15.	776.	199.	0.38	9	251.	
2844.83	2844.23	25.	139.	171.	-1.06	14	2843.60	
4.53	0.0	0.59	5.57	1.17	0.14	2845.21	2842.50	
0.006798	0.046	0.130	0.050	0.120	0.11	-0.00	233.99	
	2840.30	10.	10.	10.	190.	175.	598.85	50.

*SECNO 1.860

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		50 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

1.86	945.	80.	862.	2.	0.98	20	158.	
2875.37	2875.37	74.	104.	6.	0.60	5	2875.00	
4.47	0.0	1.09	8.30	0.44	7.16	2876.35	2875.30	
0.016637	0.046	0.150	0.050	0.130	0.30	-0.00	85.70	
	2870.90	715.	715.	715.	109.	49.	244.00	55.

603

THIS RUN EXECUTED 02/28/81 11:54:52

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

T1	YANCEY CO NC	1285
T2	100 YR FLOOD	1290
T3	BROWN CREEK	1295

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ		
	0.	4.	0.	0.	0.	0.01334	0.	0.0	0.	0.0	0.0	1300
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE		
	3.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	0.	1305

HE
EF
PW

T1
T2
T3

J1

J2

603

H03

*PROF 3

CCHV= 0.100 CEHV= 0.500

*SECNO .040

2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

BROWN CREEK		100 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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
0.04	1900.	507.	1315.	79.	0.96	0	250.	
2622.68	2622.48	272.	140.	55.	0.50	8	2622.40	
5.68	0.0	1.86	9.37	1.42	0.0	2623.63	2621.20	
0.013164	0.0	0.150	0.045	0.130	0.0	-0.00	41.14	
	2617.00	0.	0.	0.	181.	98.	320.18	0.

CCHV= 0.100 CEHV= 0.800

*SECNO .150

0.15	1850.	163.	1588.	99.	1.45	6	167.	
2629.89	2629.80	124.	153.	57.	0.49	8	2626.10	
7.39	0.0	1.32	10.40	1.72	7.31	2631.33	2627.30	
0.012068	0.050	0.150	0.050	0.150	0.39	-0.00	173.94	
	2622.50	580.	580.	580.	123.	44.	340.99	5.

*SECNO .270

BROWN CREEK		100 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

0.27	1800.	180.	1522.	98.	1.37	2	160.	
2640.64	2640.64	108.	149.	53.	-0.07	8	2637.00	
7.24	0.0	1.68	10.20	1.86	6.60	2642.01	2638.20	
0.009725	0.047	0.100	0.045	0.120	0.01	-0.00	180.08	
	2633.40	610.	610.	610.	117.	43.	339.93	10.

CCHV= 0.100 CEHV= 0.500

*SECNO .300

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.30	1790.	355.	1301.	134.	0.64	2	209.	
2642.37	0.0	238.	174.	88.	-0.73	0	2637.70	
8.27	0.0	1.49	7.47	1.52	0.92	2643.01	2638.90	
0.004244	0.047	0.100	0.045	0.120	0.07	-0.00	138.01	

*PRO

CCHV

*SEC

2096

3265

1

2

0.

CCHV

*SEC

3301

71

37

1

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7

3

103									
2634.10	150.	150.	150.	159.	50.	347.17	11.		
*SECNO .440									
BROWN CREEK 100 YR FLOOD 02/28/81									
MILE	Q	GLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRIS	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	XL OBL	XLCH	XL OBR	WSDL	WSDR	ENDST	VOL	
3685 2D TRIALS ATTEMPTED WSEL CWSEL									
3693 PROBABLE MINIMUM SPECIFIC ENERGY									
3720 CRITICAL DEPTH ASSUMED									
0.44	1730.	34.	1354.	342.	1.03	20	306.		
2655.19	2655.19	19.	147.	307.	0.40	12	2652.60		
6.89	0.0	1.82	9.21	1.12	3.53	2656.22	2650.90		
0.006545	0.045	0.100	0.040	0.130	0.20	-0.00	65.98		
	2648.30	680.	680.	680.	24.	281.	371.48	19.	
*SECNO .440									
3301 HV CHANGED MORE THAN HVINS									
0.44	1730.	111.	1167.	453.	0.46	2	318.		
2655.99	0.0	61.	178.	485.	-0.58	0	2650.00		
7.69	0.0	1.81	6.55	0.93	0.17	2656.45	2652.50		
0.002900	0.045	0.100	0.040	0.130	0.06	-0.00	63.76		
	2648.30	40.	40.	40.	35.	284.	382.23	19.	
*SECNO .440									
3265 DIVIDED FLOW									
3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 2656.40 MAX ELLC= 2654.60									
0.44	1730.	0.	913.	817.	0.31	2	300.		
2656.16	0.0	0.	155.	489.	-0.15	0	2656.70		
8.76	0.0	0.01	5.90	1.67	0.00	2656.47	2656.40		
0.009028	0.045	0.100	0.040	0.130	0.01	-46.92	62.85		
	2647.40	1.	1.	1.	36.	286.	384.48	19.	
*SECNO .440									
GR CARDS REPEATED									
3265 DIVIDED FLOW									
3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 2656.40 MAX ELLC= 2654.60									
0.44	1730.	1.	820.	910.	0.23	2	316.		
2656.42	0.0	2.	155.	557.	-0.00	0	2656.70		
9.02	0.0	0.38	5.30	1.63	0.17	2656.65	2656.40		
0.007474	0.044	0.100	0.040	0.130	0.01	-54.12	62.30		
	2647.40	21.	21.	21.	36.	289.	387.79	20.	

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*SECNO .440

0.44	1730.	98.	1116.	516.	0.36	2	324.	
2656.36	0.0	69.	189.	584.	0.13	0	2650.00	
8.06	0.0	1.42	5.92	0.88	0.00	2656.72	2652.50	
0.002776	0.044	0.130	0.045	0.150	0.06	-0.00	62.76	
	2648.30	1.	1.	1.	36.	289.	387.05	20.

*SECNO .440

BROWN CREEK 100 YR FLOOD 02/28/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	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
0.44	1730.	39.	1092.	599.	0.37	2	325.	
2656.38	0.0	34.	178.	636.	0.02	0	2652.60	
8.08	0.0	1.15	6.14	0.94	0.03	2656.75	2650.90	
0.002853	0.044	0.130	0.045	0.150	0.01	-0.00	62.71	
	2648.30	10.	10.	10.	27.	297.	387.30	20.

*SECNO .600

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK 100 YR FLOOD 02/28/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	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
0.60	1665.	11.	1329.	325.	1.56	20	125.	
2671.25	2671.25	7.	119.	171.	1.18	15	2668.80	
6.75	0.0	1.65	11.17	1.90	4.36	2672.81	2670.00	
0.014959	0.045	0.130	0.045	0.150	0.59	-0.00	138.14	
	2664.50	800.	800.	800.	17.	108.	263.63	30.

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

*SECNO .720

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

0.72	1610.	18.	1206.	386.	0.96	4	180.	
2679.18	0.0	18.	133.	234.	-0.60	0	2676.10	
7.38	0.0	1.02	9.03	1.65	7.28	2680.14	2677.30	
0.008387	0.045	0.130	0.045	0.150	0.06	-0.00	71.49	
	2671.80	660.	660.	660.	84.	114.	269.77	36.

*SECNO .730

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*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOOD			02/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC		
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 2D TRIALS ATTEMPTED WSEL CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2684.20 ELREA= 2682.50

0.73	1610.	0.	1302.	308.	1.56	20	119.	
2683.48	2683.48	0.	117.	164.	0.60	14	2681.10	
6.68	0.0	0.0	11.10	1.88	0.44	2685.04	2682.30	
0.015021	0.045	0.130	0.045	0.150	0.30	-0.00	144.00	
	2676.80	40.	40.	40.	12.	107.	262.97	36.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2682.57 NOT 2683.48
 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	D.0	17.00	0.40	98.00	D.0
	ELCHU	ELCHD						
	2676.80	2676.80						

*SECNO .730

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2690.19	2686.14	0.0	746.	878.	98.	98.	2682.70

ELTRD
2683.00

0.73	1610.	57.	1111.	442.	0.60	3	214.	
2684.87	0.0	70.	149.	307.	-0.95	0	2681.10	
8.07	0.0	0.82	7.44	1.44	0.44	2685.47	2682.30	
0.004889	0.045	0.130	0.045	0.150	0.0	-0.00	62.87	
	2676.80	26.	26.	26.	93.	121.	276.49	36.

*SECNO .730

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3301 HV CHANGED MORE THAN HVINS

BROWN CREEK			100 YR FLOOD		02/28/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	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

0.73	1610.	10.	1218.	382.	1.29	20	126.		
2685.68	2685.68	6.	117.	171.	0.68	14	2683.30		
6.68	0.0	1.52	10.39	2.24	0.08	2686.96	2684.50		
0.013183	0.045	0.130	0.045	0.120	0.34	-0.00	138.35		
	2679.00	10.	10.	10.	17.	109.	264.02	36.	

*SECNO .800

*GR CARDS REPEATED

BROWN CREEK			100 YR FLOOD		02/28/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	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

0.80	1580.	9.	1203.	368.	1.29	9	125.		
2693.42	2693.42	6.	116.	166.	0.00	6	2691.10		
6.62	0.0	1.50	10.37	2.22	4.24	2694.71	2692.30		
0.013305	0.045	0.130	0.045	0.120	0.00	-0.00	138.50		
	2686.80	320.	320.	320.	17.	108.	263.53	38.	

*SECNO .930

BROWN CREEK			100 YR FLOOD		02/28/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	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

0.93	1525.	0.	1510.	15.	1.76	15	46.		
2708.01	2708.01	0.	141.	7.	0.47	15	2710.60		
5.61	0.0	0.0	10.70	2.27	9.90	2709.77	2706.50		
0.020039	0.045	0.130	0.045	0.100	0.24	-0.00	54.93		
	2702.40	615.	615.	615.	17.	28.	100.49	41.	

*SECNO .930

BROWN CREEK			100 YR FLOOD		02/28/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		

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SLOPE	WTN ELMIN	XNL XLOBL	XNCH XLCH	XNR XLOBR	OLOSS WSDL	CORAR WSDR	SSTA ENDST	VOL
3685 2D TRIALS ATTEMPTED WSEL CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.93	1525.	216.	1141.	168.	2.14	20	49.	
2708.86	2708.86	59.	85.	44.	0.38	8	2703.60	
6.46	0.0	3.65	13.38	3.85	0.74	2711.00	2704.40	
0.016957	0.045	0.130	0.045	0.100	0.19	-0.00	53.31	
	2702.40	40.	40.	40.	24.	25.	102.39	42.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2708.10 NOT 2708.86
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	15.00	0.10	88.00	0.0
	ELCHU	ELCHD						
	2701.70	2701.70						

*SECNO .930

*GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2716.32	2711.36	0.0	627.	898.	88.	88.	2707.60	
ELTRD								
2708.00								
0.93	1525.	231.	1075.	218.	1.14	3	55.	
2710.31	0.0	85.	107.	71.	-0.99	0	2703.60	
7.91	0.0	2.71	10.05	3.07	0.45	2711.45	2704.40	
0.007061	0.045	0.130	0.045	0.100	0.0	-0.00	50.55	
	2702.40	12.	12.	12.	27.	28.	105.64	42.

*SECNO .930

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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
0.93	1525.	0.	1466.	59.	0.44	3	61.	
2711.13	0.0	1.	272.	38.	-0.71	0	2710.60	
8.73	0.0	0.23	5.39	1.56	0.0	2711.56	2706.50	

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0.002522	0.045	0.130	0.045	0.100	0.07	-0.00	46.62	
	2702.40	10.	10.	10.	25.	35.	107.45	42.

*SECNO .970

0.97	1510.	0.	1510.	0.	0.85	2	33.	
2711.63	0.0	0.	204.	0.	0.42	0	2714.00	
7.63	0.0	0.0	7.41	0.01	0.71	2712.48	2711.60	
0.005809	0.045	0.130	0.045	0.100	0.21	-0.00	116.00	
	2704.00	195.	195.	195.	16.	17.	148.79	43.

*SECNO .970

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2714.60 ELREA= 2713.30

0.97	1510.	0.	1510.	0.	2.38	3	18.	
2711.03	0.0	0.	122.	0.	1.52	0	2704.00	
7.03	0.0	0.0	12.37	0.0	0.16	2713.40	2704.40	
0.010942	0.045	0.130	0.045	0.100	0.76	-0.00	120.00	
	2704.00	20.	20.	20.	9.	9.	138.00	43.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	18.00	0.10	170.00	0.0
	ELCHD	ELCHD						
	2704.00	2704.00						

*SECNO .970

*** GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.= 2710.96 BRIDGE VELOCITY=, 12.12

CALCULATED CHANNEL AREA=		125.						
EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
0.0	2713.44	0.13	0.	1510.	170.	170.	2713.50	

ELTRD
2713.80

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2715.10 ELREA= 2713.80

0.97	1510.	0.	1510.	0.	2.29	0	18.	
2711.16	0.0	0.	124.	0.	-0.09	0	2704.00	
7.15	0.0	0.0	12.13	0.0	0.04	2713.44	2704.40	
0.010262	0.045	0.130	0.045	0.100	0.0	0.0	120.00	
	2704.00	12.	12.	12.	9.	9.	138.00	43.

*SECNO .970

BROWN CREEK

100 YR FLOOD

02/28/81

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B04

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	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

0.97	1510.	0.	1498.	12.	1.88	20	54.		
2712.48	2712.48	0.	136.	10.	-0.40	14	2714.00		
4.88	0.0	0.0	11.06	1.22	0.07	2714.37	2711.60		
0.019892	0.045	0.130	0.045	0.100	0.04	-0.00	116.00		
	2707.60	5.	5.	5.	16.	38.	169.81	43.	

*SECNO 1.090
BROWN CREEK

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	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

1.09	1455.	20.	1435.	0.	1.86	5	48.		
2728.52	2728.52	13.	130.	0.	-0.02	11	2727.00		
6.92	0.0	1.55	11.03	0.0	13.58	2730.39	2729.90		
0.022724	0.045	0.120	0.050	0.120	0.00	-0.00	425.48		
	2721.60	640.	640.	640.	34.	14.	473.24	45.	

*SECNO 1.120

3301 HV CHANGED MORE THAN HVINS

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	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=	2734.20	ELREA=	2734.00					
1.12	1455.	0.	1455.	0.	2.74	2	20.		
2731.68	2731.68	0.	110.	0.	0.87	5	2728.50		
7.08	0.0	0.0	13.28	0.0	2.48	2734.42	2727.40		
0.014224	0.045	0.120	0.040	0.120	0.44	-0.00	445.00		
	2724.60	140.	140.	140.	10.	10.	465.00	46.	

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
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1.25 1.60 3.00 0.0 25.00 0.30 200.00 0.0
 ELCHU ELCHD
 2724.60 2724.60

*SECNO 1.120
 *** GR CARDS REPEATED
 CLASS A LOW FLOW

3420 BRIDGE W.S.= 2731.65 BRIDGE VELOCITY= 8.36
 CALCULATED CHANNEL AREA= 174.
 EGPRS EGLWC H3 QWEIR QPR BAREA TAREA ELLC
 2733.00 2734.46 0.37 0. 1455. 200. 200. 2732.70
 ELTRD
 2734.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2734.70 ELREA= 2734.50
 1.12 1455. 0. 1455. 0. 2.40 0 20.
 2732.05 0.0 0. 117. 0. -0.34 0 2728.50
 7.45 0.0 0.0 12.44 0.0 0.03 2734.46 2727.40
 0.011438 0.045 0.120 0.040 0.120 0.0 -0.00 445.00
 2724.60 33. 33. 33. 10. 10. 465.00 46.

*SECNO 1.120
 3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS
 1.12 1455. 196. 1250. 10. 0.66 14 228.
 2734.03 2732.76 198. 177. 20. -1.74 11 2730.00
 7.43 0.0 0.99 7.04 0.47 0.07 2734.69 2732.90
 0.004212 0.045 0.130 0.040 0.150 0.17 -0.00 284.29
 2726.60 10. 10. 10. 175. 58. 516.95 46.

*SECNO 1.300
 *** GR CARDS REPEATED

3265 DIVIDED FLOW
 3301 HV CHANGED MORE THAN HVINS
 BROWN CREEK 100 YR FLOOD 02/28/81
 MILE Q GLOB QCH GROB 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

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3720 CRITICAL DEPTH ASSUMED

1.30	1375	62.	1313.	0.	1.55	20	93.		
2757.79	2757.19	46.	129.	0.	0.88	14	2754.60		
5.99	0.0	1.35	10.21	0.0	7.10	2758.74	2757.50		
0.013134	0.044	0.130	0.040	0.150	0.44	-0.00	290.69		
	2751.20	1050.	1050.	1050.	168.	16.	475.16		53.

*SECNO 1.460

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

1.46	1315	323.	960.	31.	0.86	20	206.		
2790.63	2790.63	182.	111.	28.	-0.68	16	2790.70		
4.23	0.0	1.77	8.67	1.14	11.81	2791.50	2790.00		
0.018557	0.045	0.150	0.050	0.130	0.07	-0.00	281.46		
	2786.40	765.	765.	765.	147.	61.	489.10		57.

*SECNO 1.480

*** GR CARDS REPEATED

3265 DIVIDED FLOW

BROWN CREEK		100 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

1.48	1315	322.	962.	31.	0.87	20	206.		
2797.73	2797.73	181.	111.	27.	0.01	5	2797.80		
4.23	0.0	1.78	8.70	1.14	1.86	2798.60	2797.10		
0.018725	0.045	0.150	0.050	0.130	0.00	-0.00	281.48		
	2793.50	100.	100.	100.	147.	61.	489.08		58.

*SECNO 1.600

*** GR CARDS REPEATED

3265 DIVIDED FLOW

E04

3685
3693
3720

275

0.01

*SEC
M
E
D
S

3685
3693
3720

275

0.01

*SE

3685
3693
3720

275

0.01

*S

71
37

ED4

BROWN CREEK		100 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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	XL OBL	XLCH	XL OBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.60	1260.	299.	936.	25.	0.88	10	203.	
2822.54	2822.54	171.	108.	24.	0.01	5	2822.70	
4.15	0.0	1.75	8.67	1.05	12.12	2823.42	2822.00	
0.019152	0.045	0.150	0.050	0.130	0.00	-0.00	281.67	
	2818.40	640.	640.	640.	147.	60.	488.95	62.

*SECNO 1.710

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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	XL OBL	XLCH	XL OBR	WSDL	WSDR	ENDST	VOL

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

1.71	1210.	0.	1210.	0.	1.62	20	36.	
2839.08	2839.08	0.	118.	0.	0.74	8	2840.20	
4.88	0.0	0.0	10.22	0.0	13.71	2840.70	2839.10	
0.026441	0.046	0.150	0.050	0.150	0.37	-0.00	407.52	
	2834.20	615.	615.	615.	16.	20.	443.97	65.

*SECNO 1.720

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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	XL OBL	XLCH	XL OBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2844.20 MAX ELLC= 2843.50

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

1.72	1210.	57.	759.	394.	0.41	20	270.	
2845.10	2845.10	43.	120.	190.	-1.21	8	2843.60	

282
0.02
*SEC
3301
M
E
D
S
7185
3721
21
0.1
*SE
326
330
33
36
36
37
C
*S
32

1.72 1210. 51. 120. 190. -1.21 8 2843.60
 2845.10 2845.10 43. 120. 190. -1.21 8 2843.60

FD4

7.50 0.0 1.34 6.34 2.07 1.16 2845.52 2845.00
 0.032196 0.046 0.150 0.050 0.150 0.12 -39.59 232.42
 2837.60 40. 40. 40. 192. 179. 603.13 65.

*SECNO 1.720
 *** GR CARDS REPEATED

3265 DIVIDED FLOW

BROWN CREEK		100 YR FLOOD			02/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2844.20 MAX ELIC= 2843.50

1.72 1210. 94. 658. 457. 0.21 2 302.
 2845.58 0.0 83. 139. 268. -0.21 0 2843.60
 7.98 0.0 1.14 4.74 1.71 0.25 2845.79 2845.00
 0.014770 0.046 0.150 0.050 0.150 0.02 -39.59 229.68
 2837.60 12. 12. 12. 194. 187. 610.57 66.

*SECNO 1.720
 3265 DIVIDED FLOW

1.72 1210. 58. 803. 348. 0.23 3 306.
 2845.63 0.0 88. 172. 301. 0.02 0 2843.60
 5.33 0.0 0.67 4.68 1.16 0.07 2845.87 2842.50
 0.003639 0.046 0.130 0.050 0.120 0.01 -0.00 229.38
 2840.30 10. 10. 10. 195. 187. 611.38 66.

*SECNO 1.860
 3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOOD			02/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		

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

1.86 1155. 145. 993. 17. 1.01 20 172.
 2875.73 2875.73 109. 115. 19. 0.77 15 2875.00
 4.83 0.0 1.34 8.67 0.88 4.68 2876.73 2875.30
 0.015888 0.046 0.150 0.050 0.130 0.39 -0.00 80.25
 2870.90 715. 715. 715. 115. 57. 252.01 72.

604

THIS RUN EXECUTED 02/28/81 11:54:59

 HEC2 RELEASE DATED NOV 76 UPDATED JULY 1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53,54

T1	YANCEY CO NC	1310
T2	500 YR FLOOD	1315
T3	BROWN CREEK	1320

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ	
	0.	5.	0.	0.	0.01334	0.	0.0	0.	0.0	0.0	1325
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	15.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	1330

HEC;
ERRI
MOD.

NOTE--
INDIC
BROWN
SUMM

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H04

HD4

*PROF 4

CCHV= 0.100 CEHV= 0.500

*SECNO .040

2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

BROWN CREEK		500 YR FLOOD				02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	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	XL OBL	XLCH	XL OBR	WSDL	WSDR	ENDST	VOL	
0.04	2915.	907.	1785.	229.	1.10	0	321.		
2623.51	2623.39	407.	168.	134.	0.50	14	2622.40		
6.51	0.0	2.21	10.62	1.71	0.0	2624.61	2621.20		
0.013327	0.0	0.150	0.045	0.130	0.0	-0.00	38.95		
	2617.00	0.	0.	0.	184.	138.	360.67	0.	

CCHV= 0.100 CEHV= 0.800

*SECNO .150

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		500 YR FLOOD				02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	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	XL OBL	XLCH	XL OBR	WSDL	WSDR	ENDST	VOL	
0.15	2840.	507.	2119.	214.	1.61	2	219.		
2631.05	2631.05	280.	181.	99.	0.51	11	2626.10		
8.55	0.0	1.81	11.73	2.16	7.42	2632.66	2627.30		
0.012271	0.050	0.150	0.050	0.150	0.41	-0.00	130.10		
	2622.50	580.	580.	580.	167.	52.	349.12	8.	

*SECNO .270

BROWN CREEK		500 YR FLOOD				02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	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	XL OBL	XLCH	XL OBR	WSDL	WSDR	ENDST	VOL	
0.27	2765.	580.	1972.	213.	1.40	3	215.		
2641.80	2641.80	257.	177.	93.	-0.21	8	2637.00		
8.40	0.0	2.26	11.13	2.28	6.46	2643.20	2638.20		
0.009208	0.047	0.100	0.045	0.120	0.02	-0.00	132.94		
	2633.40	610.	610.	610.	164.	51.	348.06	16.	

104

CCHV= 0.100 CEHV= 0.500
*SECNO .300

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.30	2745.	821.	1677.	246.	0.68	2	241.
2643.51	0.0	421.	201.	137.	-0.72	0	2637.70
9.41	0.0	1.95	8.33	1.80	0.92	2644.19	2638.90
0.004339	0.047	0.100	0.045	0.120	0.07	-0.00	113.92
	2634.10	150.	150.	150.	183.	58.	355.13
							18.

*SECNO .440

BROWN CREEK		500 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

0.44	2650.	64.	1734.	851.	1.06	20	320.
2656.10	2656.10	30.	171.	557.	0.38	10	2652.60
7.80	0.0	2.16	10.16	1.53	3.57	2657.16	2650.90
0.006525	0.045	0.100	0.040	0.130	0.19	-0.00	63.47
	2648.30	680.	680.	680.	27.	294.	383.61
							30.

*SECNO .440

0.44	2650.	171.	1568.	911.	0.57	3	332.
2656.83	0.0	79.	202.	712.	-0.50	0	2650.00
8.53	0.0	2.17	7.76	1.28	0.18	2657.40	2652.50
0.003438	0.045	0.100	0.040	0.130	0.05	-0.00	61.48
	2648.30	40.	40.	40.	37.	295.	393.22
							31.

*SECNO .440

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 2656.40 MAX ELLC= 2654.60

0.44	2650.	24.	890.	1736.	0.18	3	342.
2657.26	0.0	20.	175.	792.	-0.38	0	2656.70
9.86	0.0	1.23	5.08	2.19	0.01	2657.44	2656.40
0.008906	0.045	0.100	0.040	0.130	0.04	-58.01	56.73
	2647.40	1.	1.	1.	42.	300.	398.97
							31.

*SECNO .440

*** GR CARDS REPEATED

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 2656.40 MAX ELLC= 2654.60

0.44	2650.	32.	854.	1764.	0.16	2	348.
2657.46	0.0	26.	181.	850.	-0.03	0	2656.70

JD4

10.06	0.0	1.25	4.72	2.08	0.17	2657.61	2656.40	
0.007366	0.044	0.100	0.040	0.130	0.00	-58.01	53.39	
	2647.40	21.	21.	21.	45.	303.	401.63	31.

*SECNO .440

0.44	2650.	153.	1492.	1006.	0.42	2	344.	
2657.33	0.0	91.	217.	855.	0.27	0	2650.00	
9.03	0.0	1.67	6.88	1.18	0.00	2657.75	2652.50	
0.003122	0.044	0.130	0.045	0.150	0.13	-0.00	55.55	
	2648.30	1.	1.	1.	43.	301.	399.91	31.

*SECNO .440
 BROWN CREEK
 500 YR FLOOD
 02/28/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	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
0.44	2650.	69.	1447.	1134.	0.44	2	345.	
2657.35	0.0	50.	203.	918.	0.02	0	2652.60	
9.05	0.0	1.39	7.12	1.23	0.03	2657.79	2650.90	
0.003218	0.044	0.130	0.045	0.150	0.01	-0.00	55.17	
	2648.30	10.	10.	10.	35.	310.	400.21	32.

*SECNO .600
 3301 HV CHANGED MORE THAN HVINS

BROWN CREEK
 500 YR FLOOD
 02/28/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	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

0.60	2545.	86.	1764.	695.	1.54	20	213.	
2672.54	2672.54	67.	149.	303.	1.10	15	2668.80	
8.04	0.0	1.29	11.88	2.29	4.48	2674.08	2670.00	
0.012569	0.045	0.130	0.045	0.150	0.55	-0.00	63.34	
	2664.50	800.	800.	800.	92.	121.	276.12	47.

*SECNO .720

0.72	2460.	114.	1648.	698.	1.20	3	219.	
2680.12	0.0	90.	155.	334.	-0.35	0	2676.10	
8.32	0.0	1.27	10.63	2.09	7.20	2681.31	2677.30	
0.009513	0.045	0.130	0.045	0.150	0.03	-0.00	59.85	
	2671.80	660.	660.	660.	96.	123.	278.84	56.

*SECNO .730
 GR CARDS REPEATED

K04

BROWN CREEK		500 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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	XL0BL	XLCH	XL0BR	WSDL	WSDR	ENDST	VOL

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

0.73	2460.	74.	1723.	663.	1.53	20	211.	
2684.75	2684.75	60.	147.	294.	0.33	11	2681.10	
7.95	0.0	1.23	11.76	2.25	0.43	2686.28	2682.30	
0.012540	0.045	0.130	0.045	0.150	0.17	-0.00	64.40	
	2676.80	40.	40.	40.	91.	120.	275.29	56.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2684.46 NOT 2684.75
 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	17.00	0.40	98.00	0.0
	ELCHD	ELCHD						
	2676.80	2676.80						

*SECNO .730

GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2700.41	2688.65	0.0	1687.	795.	98.	98.	2682.70
	ELTRD						
	2683.00						

0.73	2460.	144.	1596.	720.	1.01	4	225.	
2685.38	0.0	112.	161.	364.	-0.52	0	2681.10	
8.58	0.0	1.28	9.91	1.98	0.11	2686.39	2682.30	
0.007866	0.045	0.130	0.045	0.150	0.0	-0.00	56.61	
	2676.80	26.	26.	26.	99.	126.	281.38	56.

*SECNO .730

BROWN CREEK		500 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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	XL0BL	XLCH	XL0BR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY

LD4

3720 CRITICAL DEPTH ASSUMED

0.73	2460.	46.	1647.	767.	1.46	20	206.	
2686.71	2686.71	41.	141.	275.	0.45	15	2683.30	
7.71	0.0	1.13	11.69	2.79	0.10	2688.16	2684.50	
0.013065	0.045	0.130	0.045	0.120	0.22	-0.00	67.48	
	2679.00	10.	10.	10.	88.	118.	273.69	57.

*SECNO .800

*** GR CARDS REPEATED

BROWN CREEK		500 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISWS	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

0.80	2415.	41.	1627.	747.	1.45	10	205.	
2694.46	2694.46	37.	140.	270.	-0.01	5	2691.10	
7.66	0.0	1.12	11.64	2.76	4.18	2695.91	2692.30	
0.013077	0.045	0.130	0.045	0.120	0.00	-0.00	68.06	
	2686.80	320.	320.	320.	87.	118.	273.25	60.

*SECNO .930

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		500 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISWS	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

0.93	2330.	0.	2280.	50.	2.19	20	51.	
2709.22	2709.22	0.	190.	16.	0.74	11	2710.60	
6.82	0.0	0.0	12.01	3.12	9.46	2711.42	2706.50	
0.018468	0.045	0.130	0.045	0.100	0.37	-0.00	52.62	
	2702.40	615.	615.	615.	19.	31.	103.19	64.

*SECNO .930

BROWN CREEK		500 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISWS	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

0.93	2330.	354.	1639.	337.	2.61	4	55.	
2710.38	2710.38	87.	108.	73.	0.41	8	2703.60	

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7.98	0.0	4.09	15.18	4.64	0.69	2712.98	2704.40	
0.015933	0.045	0.130	0.045	0.100	0.21	-0.00	50.43	
	2702.40	40.	40.	40.	27.	28.	105.78	65.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2710.20 NOT 2710.38
 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	DWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.10	88.00	0.0
ELCHU	ELCHD							
2701.70	2701.70							

*SECNO .930

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2727.79	2714.29	0.0	1420.	923.	88.	88.	2707.60	
ELTRD								
2708.00								
0.93	2330.	371.	1588.	371.	1.92	4	61.	
2711.19	0.0	104.	120.	90.	-0.69	0	2703.60	
8.79	0.0	3.56	13.20	4.10	0.13	2713.11	2704.40	
0.010427	0.045	0.130	0.045	0.100	0.0	-0.00	46.15	
	2702.40	12.	12.	12.	31.	30.	107.62	65.

*SECNO .930

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		500 YR FLOOD				02/28/81			
MILE	Q	ZLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	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
0.93	2330.	9.	2205.	116.	0.62	3	73.		
2712.67	0.0	13.	339.	61.	-1.30	0	2710.60		
10.27	0.0	0.69	6.50	1.89	0.05	2713.29	2706.50		
0.002721	0.045	0.130	0.045	0.100	0.13	-0.00	37.99		
	2702.40	10.	10.	10.	34.	39.	110.89		65.

*SECNO .970

3301 HV CHANGED MORE THAN HVINS

A05

0.97	2305.	0.	2274.	31.	1.24	2	70.	
2713.15	0.0	0.0	253.	30.	0.62	0	2714.00	
9.15	0.0	0.0	9.01	1.03	0.79	2714.39	2711.60	
0.006770	0.045	0.130	0.045	0.100	0.31	-0.00	116.00	
	2704.00	195.	195.	195.	16.	54.	186.41	66.

*SECNO .970

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		500 YR FLOOD			02/28/81			
MILE	Q	QLOB	GCH	GROB	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= 2714.60 ELREA= 2713.30

0.97	2305.	0.	1989.	316.	2.01	4	70.	
2713.31	2713.31	0.	163.	102.	0.77	18	2704.00	
9.31	0.0	0.0	12.19	3.11	0.14	2715.32	2704.40	
0.007221	0.045	0.130	0.045	0.100	0.38	-0.00	120.00	
	2704.00	20.	20.	20.	9.	61.	190.13	67.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	18.00	0.10	170.00	0.0
	ELCHU	ELCHD						
	2704.00	2704.00						

*SECNO .970

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	YAREA	ELLC
2717.87	2716.43	0.08	565.	1735.	170.	170.	2713.50

ELTRD
2713.80

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2715.10 ELREA= 2713.80

0.97	2305.	0.	1894.	411.	1.35	3	104.
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B05

0.97 2305. 0. 1894. 411. 1.35 3 104.

B05

2714.55	0.0	0.	185.	185.	-0.66	0	2704.00	
10.55	0.0	0.0	10.22	2.22	0.58	2715.89	2704.40	
0.004285	0.045	0.130	0.045	0.100	0.0	-0.00	120.00	
	2704.00	12.	12.	12.	9.	285.	414.06	67.

*SECNO 970

0.97	2305.	1.	2099.	205.	1.58	4	110.	
2714.46	2713.99	2.	199.	101.	0.23	14	2714.00	
6.86	0.0	0.46	10.56	2.02	0.03	2716.04	2717.60	
0.011469	0.045	0.130	0.045	0.100	0.12	-0.00	108.48	
	2707.60	5.	5.	5.	24.	87.	218.71	67.

*SECNO 1.09D

3265 DIVIDED FLOW

BROWN CREEK		500 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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	XL OBL	XLCH	XL OBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.09	2220.	169.	2050.	1.	1.73	19	144.	
2730.24	2730.24	98.	187.	2.	0.15	11	2727.00	
8.64	0.0	1.72	10.99	0.47	8.50	2731.97	2729.90	
0.015678	0.045	0.120	0.050	0.120	0.08	-0.00	286.38	
	2721.60	640.	640.	640.	175.	27.	485.64	71.

*SECNO 1.120

BROWN CREEK		500 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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	XL OBL	XLCH	XL OBR	WSDL	WSDR	ENDST	VOL

3685 2D TRIALS ATTEMPTED WSEL CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.12	2220.	368.	1724.	129.	1.36	20	249.	
2734.35	2734.35	264.	163.	82.	-0.38	10	2728.50	
9.75	0.0	1.39	10.58	1.57	1.19	2735.71	2727.40	
0.005324	0.045	0.120	0.040	0.120	0.04	-0.00	283.45	
	2724.60	140.	140.	140.	172.	78.	532.62	72.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	25.00	0.30	200.00	0.0
	ELCHU	ELCHD						
	2724.60	2724.60						

C05

*SECNO 1.120

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2735.71 HIGHER THAN COMPUTED ENERGY OF 2735.66

3265 DIVIDED FLOW

BROWN CREEK		500 YR FLOOD			02/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC		
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
2737.41	2737.26	0.08	769.	1453.	200.	200.	2732.70
ELTRD							
2734.50							

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

1.12	2220.	470.	1585.	164.	0.93	20	372.
2734.90	2734.90	354.	174.	144.	-0.43	10	2728.50
10.30	0.0	1.33	9.11	1.14	0.14	2735.83	2727.40
0.003617	0.045	0.120	0.040	0.120	-0.14	-0.00	281.99
	2724.60	33.	33.	33.	173.	477.	932.25
							73.

*SECNO 1.120

3265 DIVIDED FLOW

1.12	2220.	505.	1620.	95.	0.62	3	470.
2735.28	0.0	396.	220.	176.	-0.31	0	2730.00
8.68	0.0	1.28	7.37	0.54	0.04	2735.90	2732.90
0.003469	0.045	0.130	0.040	0.150	0.03	-0.00	281.02
	2726.60	10.	10.	10.	178.	531.	989.79
							73.

*SECNO 1.300

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		500 YR FLOOD			02/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC		
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

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

1.30	2095.	279.	1803.	13.	1.40	20	226.		
2758.61	2758.61	195.	177.	19.	0.77	15	2754.60		
7.41	0.0	1.43	10.20	0.68	5.44	2760.00	2757.50		
0.008883	0.044	0.130	0.040	0.150	0.39	-0.00	284.35		
	2751.20	1050.	1050.	1050.	175.	57.	515.96	87.	

*SECNO 1.460

BROWN CREEK									
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	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

1.46	1995.	588.	1309.	99.	1.06	20	210.		
2791.22	2791.22	259.	130.	54.	-0.34	14	2790.70		
4.82	0.0	2.27	10.06	1.84	9.73	2792.28	2790.00		
0.020210	0.045	0.150	0.050	0.130	0.03	-0.00	280.11		
	2786.40	765.	765.	765.	148.	62.	490.11	94.	

*SECNO 1.480

*** GR CARDS REPEATED

BROWN CREEK									
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	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

1.48	1995.	588.	1308.	99.	1.05	20	210.		
2798.32	2798.32	259.	130.	54.	-0.00	5	2797.80		
4.82	0.0	2.27	10.05	1.84	2.02	2799.37	2797.10		
0.020170	0.045	0.150	0.050	0.130	0.00	-0.00	280.11		
	2793.50	100.	100.	100.	148.	62.	490.12	95.	

*SECNO 1.600

*** GR CARDS REPEATED

BROWN CREEK									
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	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

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7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

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1.60	1910.	550.	1273.	87.	1.06	11	210.
2823.72	2823.72	247.	127.	50.	0.01	5	2822.70
4.73	0.0	2.23	10.02	1.76	13.07	2824.19	2822.00
0.020701	0.045	0.150	0.050	0.130	0.00	-0.00	280.33
	2818.40	640.	640.	640.	148.	61.	489.95
							102.

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*SECNO 1.710

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		500 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

1.71	1835.	0.	1801.	34.	1.70	9	106.
2840.44	2840.44	0.	171.	31.	0.64	11	2840.20
6.24	0.0	0.34	10.55	1.07	12.38	2842.14	2839.10
0.019561	0.046	0.150	0.050	0.150	0.32	0.0	401.19
	2834.20	615.	615.	615.	23.	83.	507.48
							106.

*SECNO 1.720

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		500 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2844.20 MAX ELLC= 2843.50

3685 2D TRIALS ATTEMPTED WSEL, CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.72	1835.	109.	1084.	642.	0.71	20	283.
2845.29	2845.29	57.	127.	221.	-0.98	6	2843.60
7.69	0.0	1.91	8.52	2.91	1.22	2846.01	2845.00
0.053496	0.046	0.150	0.050	0.150	0.10	-39.59	231.33
	2837.60	40.	40.	40.	193.	182.	606.09
							107.

*SECNO 1.720

*** GR CARDS REPEATED

3265 DIVIDED FLOW

E05

F05

BROWN CREEK		500 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2844.20 MAX ELLC= 2843.50

1.72	1835.	209.	870.	755.	0.25	2	336.	
2846.13	0.0	142.	161.	362.	-0.47	0	2843.60	
8.53	0.0	1.48	5.42	2.09	0.32	2846.37	2845.00	
0.015860	0.046	0.150	0.050	0.150	0.05	-39.59	187.54	
	2837.60	12.	12.	12.	236.	195.	619.06	107.

*SECNO 1.720

3265 DIVIDED FLOW

1.72	1835.	137.	1104.	593.	0.32	2	339.	
2846.17	0.0	147.	193.	393.	0.07	0	2843.60	
5.87	0.0	0.94	5.72	1.51	0.08	2846.49	2842.50	
0.004654	0.046	0.130	0.050	0.120	0.04	-0.00	186.78	
	2840.30	10.	10.	10.	237.	196.	619.68	107.

*SECNO 1.860

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		500 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

1.86	1750.	333.	1336.	81.	1.15	20	199.	
2876.44	2876.44	184.	136.	55.	0.84	11	2875.00	
5.54	0.0	1.81	9.82	1.48	5.56	2877.60	2875.30	
0.016220	0.046	0.150	0.050	0.130	0.42	-0.00	69.36	
	2870.90	715.	715.	715.	126.	73.	268.00	116.

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 HEC2 RELEASE DATED NOV 76 UPDATED JULY 1979
 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/

BROWN CREEK

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
0.040	0.	0.0	0.0	2617.0	895.0	2621.37	2621.14	2622.10	131.93	7.54	216.60	77.92
0.040	0.	0.0	0.0	2617.0	1545.0	2622.28	2622.06	2623.18	133.28	8.85	376.09	133.83
0.040	0.	0.0	0.0	2617.0	1900.0	2622.68	2622.48	2623.63	131.64	9.37	468.00	165.60
0.040	0.	0.0	0.0	2617.0	2915.0	2623.51	2623.39	2624.61	133.27	10.62	709.69	252.51
0.150	580.	0.0	0.0	2622.5	875.0	2628.13	0.0	2629.06	104.53	7.79	127.45	85.58
0.150	580.	0.0	0.0	2622.5	1510.0	2629.41	2629.12	2630.73	116.12	9.68	259.07	140.13
0.150	580.	0.0	0.0	2622.5	1850.0	2629.89	2629.80	2631.33	120.68	10.40	334.03	168.41
* 0.150	580.	0.0	0.0	2622.5	2840.0	2631.05	2631.05	2632.66	122.71	11.73	560.59	256.38
* 0.270	610.	0.0	0.0	2633.4	855.0	2637.81	2637.81	2639.52	223.63	10.51	82.10	57.17
* 0.270	610.	0.0	0.0	2633.4	1470.0	2640.03	2640.03	2641.45	106.75	9.99	221.31	142.28
* 0.270	610.	0.0	0.0	2633.4	1800.0	2640.64	2640.64	2642.01	97.25	10.20	309.22	182.53
* 0.270	610.	0.0	0.0	2633.4	2765.0	2641.80	2641.80	2643.20	92.08	11.13	527.75	288.15
0.300	150.	0.0	0.0	2634.1	850.0	2640.37	0.0	2640.97	47.78	6.39	177.98	122.97
0.300	150.	0.0	0.0	2634.1	1460.0	2641.87	0.0	2642.48	41.58	7.05	401.95	226.42
0.300	150.	0.0	0.0	2634.1	1790.0	2642.37	0.0	2643.01	42.44	7.47	500.94	274.76
0.300	150.	0.0	0.0	2634.1	2745.0	2643.51	0.0	2644.19	43.39	8.33	759.05	416.73
* 0.440	680.	0.0	0.0	2648.3	820.0	2652.69	2652.69	2654.16	161.41	9.81	92.29	64.54
* 0.440	680.	0.0	0.0	2648.3	1410.0	2654.77	2654.77	2655.81	66.56	8.82	346.60	172.83
* 0.440	680.	0.0	0.0	2648.3	1730.0	2655.19	2655.19	2656.22	65.45	9.21	472.31	213.84
* 0.440	680.	0.0	0.0	2648.3	2650.0	2656.10	2656.10	2657.16	65.25	10.16	757.80	328.07
0.440	40.	0.0	0.0	2648.3	820.0	2653.83	0.0	2654.60	60.52	7.07	122.14	105.40
0.440	40.	0.0	0.0	2648.3	1410.0	2655.44	0.0	2656.04	36.94	6.94	499.73	231.98
0.440	40.	0.0	0.0	2648.3	1730.0	2655.99	0.0	2656.45	29.00	6.55	724.59	321.28
0.440	40.	0.0	0.0	2648.3	2650.0	2656.83	0.0	2657.40	34.38	7.76	993.40	451.92
0.440	1.	2656.4	2654.6	2647.4	820.0	2654.13	0.0	2654.63	45.02	5.73	159.03	122.22
0.440	1.	2656.4	2654.6	2647.4	1410.0	2655.75	0.0	2656.07	84.35	5.70	532.80	153.52
0.440	1.	2656.4	2654.6	2647.4	1730.0	2656.16	0.0	2656.47	90.28	5.90	643.75	182.07
0.440	1.	2656.4	2654.6	2647.4	2650.0	2657.26	0.0	2657.44	89.06	5.08	987.54	280.80
0.440	21.	2656.4	2654.6	2647.4	820.0	2654.25	0.0	2654.73	41.76	5.56	175.21	126.90
0.440	21.	2656.4	2654.6	2647.4	1410.0	2656.00	0.0	2656.24	68.70	5.15	599.04	170.11
0.440	21.	2656.4	2654.6	2647.4	1730.0	2656.42	0.0	2656.65	74.74	5.30	713.13	200.11
0.440	21.	2656.4	2654.6	2647.4	2650.0	2657.46	0.0	2657.61	73.66	4.72	1056.69	308.77

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SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
0.440	1.	0.0	0.0	2648.3	820.0	2654.18	2652.74	2654.81	56.66	6.44	158.83	108.94
0.440	1.	0.0	0.0	2648.3	1410.0	2655.93	0.0	2656.32	30.07	5.88	642.03	257.11
0.440	1.	0.0	0.0	2648.3	1730.0	2656.36	0.0	2656.72	27.76	5.92	841.02	328.37
0.440	1.	0.0	0.0	2648.3	2650.0	2657.33	0.0	2657.75	31.22	6.88	1163.06	474.28
0.440	10.	0.0	0.0	2648.3	820.0	2654.35	2652.69	2654.87	43.89	6.02	223.36	123.78
0.440	10.	0.0	0.0	2648.3	1410.0	2656.03	0.0	2656.36	25.51	5.60	733.99	279.17
0.440	10.	0.0	0.0	2648.3	1730.0	2656.38	0.0	2656.75	28.53	6.14	847.21	323.91
0.440	10.	0.0	0.0	2648.3	2650.0	2657.35	0.0	2657.79	32.18	7.12	1171.07	467.12
* 0.600	800.	0.0	0.0	2664.5	790.0	2669.54	2669.54	2670.80	169.19	9.30	118.85	60.73
* 0.600	800.	0.0	0.0	2664.5	1360.0	2670.87	2670.87	2672.23	139.88	10.26	249.17	114.99
* 0.600	800.	0.0	0.0	2664.5	1665.0	2671.25	2671.25	2672.81	149.59	11.17	296.39	136.13
* 0.600	800.	0.0	0.0	2664.5	2545.0	2672.54	2672.54	2674.08	125.69	11.88	518.58	227.00
0.720	660.	0.0	0.0	2671.8	765.0	2677.56	0.0	2678.24	78.60	7.03	178.84	86.29
0.720	660.	0.0	0.0	2671.8	1315.0	2678.62	0.0	2679.55	88.38	8.66	304.51	139.88
0.720	660.	0.0	0.0	2671.8	1610.0	2679.18	0.0	2680.14	83.87	9.03	384.98	175.80
0.720	660.	0.0	0.0	2671.8	2460.0	2680.12	0.0	2681.31	95.13	10.63	579.14	252.21
* 0.730	40.	0.0	0.0	2676.8	765.0	2682.53	2682.53	2683.23	82.08	7.14	172.18	84.44
* 0.730	40.	0.0	0.0	2676.8	1315.0	2683.05	2683.05	2684.46	146.91	10.34	230.94	108.49
* 0.730	40.	0.0	0.0	2676.8	1610.0	2683.48	2683.48	2685.04	150.21	11.10	281.50	131.37
* 0.730	40.	0.0	0.0	2676.8	2460.0	2684.75	2684.75	2686.28	125.40	11.76	500.47	219.68
0.730	26.	2683.0	2682.7	2676.8	765.0	2683.46	0.0	2683.82	34.23	5.29	280.22	130.76
* 0.730	26.	2683.0	2682.7	2676.8	1315.0	2684.44	0.0	2685.01	47.56	7.00	399.29	190.68
* 0.730	26.	2683.0	2682.7	2676.8	1610.0	2684.87	0.0	2685.47	48.89	7.44	526.54	230.25
* 0.730	26.	2683.0	2682.7	2676.8	2460.0	2685.38	0.0	2686.39	78.66	9.91	637.11	277.37
* 0.730	10.	0.0	0.0	2679.0	765.0	2683.95	2683.95	2685.13	163.81	9.05	117.70	59.77
* 0.730	10.	0.0	0.0	2679.0	1315.0	2685.17	2685.17	2686.44	141.81	10.05	231.84	110.42
* 0.730	10.	0.0	0.0	2679.0	1610.0	2685.68	2685.68	2686.96	131.83	10.39	294.21	140.23
* 0.730	10.	0.0	0.0	2679.0	2460.0	2686.71	2686.71	2688.16	130.65	11.69	456.91	215.21
* 0.800	320.	0.0	0.0	2686.8	750.0	2691.69	2691.69	2692.88	167.72	9.08	113.68	57.91
* 0.800	320.	0.0	0.0	2686.8	1290.0	2692.93	2692.93	2694.20	142.22	10.00	226.89	108.17
* 0.800	320.	0.0	0.0	2686.8	1580.0	2693.42	2693.42	2694.71	133.05	10.37	287.73	136.98
* 0.800	320.	0.0	0.0	2686.8	2415.0	2694.46	2694.46	2695.91	130.77	11.64	447.24	211.19
* 0.930	615.	0.0	0.0	2702.4	725.0	2706.46	2706.46	2707.65	240.72	8.73	83.01	46.73
* 0.930	615.	0.0	0.0	2702.4	1245.0	2707.52	2707.52	2709.11	209.76	10.12	126.08	85.96
* 0.930	615.	0.0	0.0	2702.4	1525.0	2708.01	2708.01	2709.77	200.39	10.70	147.79	107.73
* 0.930	615.	0.0	0.0	2702.4	2330.0	2709.22	2709.22	2711.42	184.68	12.01	206.00	171.46
* 0.930	40.	0.0	0.0	2702.4	725.0	2707.58	2707.58	2708.78	118.85	9.45	105.27	66.50
* 0.930	40.	0.0	0.0	2702.4	1245.0	2708.63	2708.63	2710.23	132.84	11.52	176.73	108.02
* 0.930	40.	0.0	0.0	2702.4	1525.0	2708.86	2708.86	2711.00	169.57	13.38	188.09	117.11
* 0.930	40.	0.0	0.0	2702.4	2330.0	2710.38	2710.38	2712.98	159.33	15.18	267.13	184.59
0.930	12.	2708.0	2707.6	2702.4	725.0	2708.08	0.0	2709.02	81.03	8.39	120.38	80.54
0.930	12.	2708.0	2707.6	2702.4	1245.0	2709.96	0.0	2710.84	57.22	8.75	244.51	164.59
* 0.930	12.	2708.0	2707.6	2702.4	1525.0	2710.31	0.0	2711.43	70.61	10.05	263.66	181.49
* 0.930	12.	2708.0	2707.6	2702.4	2330.0	2711.19	0.0	2713.11	104.27	13.20	314.91	228.17

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SEFNO	ALCH	ELTRD	ELIC	ELMIN	Q	CASEL	CRIMS	EG	10K*S	VCH	AREA	.DK
0.930	10.	0.0	0.0	2702.4	725.0	2708.88	0.0	2709.13	22.68	4.05	189.08	152.22
0.930	10.	0.0	0.0	2702.4	1245.0	2710.57	0.0	2710.92	23.14	4.86	278.18	258.84
0.930	10.	0.0	0.0	2702.4	1525.0	2711.13	0.0	2711.56	25.22	5.39	310.43	305.65
0.930	10.	0.0	0.0	2702.4	2330.0	2712.67	0.0	2713.29	27.21	6.50	413.76	446.68
0.970	195.	0.0	0.0	2704.0	720.0	2709.38	0.0	2709.83	44.45	5.37	133.99	107.99
0.970	195.	0.0	0.0	2704.0	1235.0	2711.04	0.0	2711.73	51.21	6.67	185.07	172.58
0.970	195.	0.0	0.0	2704.0	1510.0	2711.63	0.0	2712.48	58.09	7.41	205.77	198.13
0.970	195.	0.0	0.0	2704.0	2305.0	2713.15	0.0	2714.39	67.70	9.01	282.43	280.13
0.970	20.	0.0	0.0	2704.0	720.0	2709.22	0.0	2710.22	69.88	8.04	89.56	86.13
0.970	20.	0.0	0.0	2704.0	1235.0	2710.63	0.0	2712.42	89.23	10.74	115.04	130.74
0.970	20.	0.0	0.0	2704.0	1510.0	2711.02	0.0	2713.40	109.42	12.37	122.08	144.35
0.970	20.	0.0	0.0	2704.0	2305.0	2713.51	0.0	2715.32	12.27	12.19	265.04	271.24
0.970	12.	2713.8	2713.5	2704.0	720.0	2709.25	0.0	2710.24	68.31	7.98	90.17	87.12
0.970	12.	2713.8	2713.5	2704.0	1235.0	2710.71	0.0	2712.46	85.81	10.61	116.40	135.52
0.970	12.	2713.8	2713.5	2704.0	1510.0	2711.16	0.0	2713.44	102.62	12.13	124.46	149.06
0.970	12.	2713.8	2713.5	2704.0	2305.0	2714.55	0.0	2715.89	42.85	10.22	370.32	352.14
0.970	5.	0.0	0.0	2707.6	720.0	2710.69	0.0	2711.99	243.84	9.14	78.79	46.11
0.970	5.	0.0	0.0	2707.6	1235.0	2711.85	0.0	2713.63	227.34	10.73	115.85	81.91
0.970	5.	0.0	0.0	2707.6	1510.0	2712.48	0.0	2714.37	198.92	11.06	145.15	107.06
0.970	5.	0.0	0.0	2707.6	2305.0	2714.46	0.0	2716.04	114.69	10.56	301.91	215.23
1.090	640.	0.0	0.0	2721.6	695.0	2726.69	0.0	2727.97	256.13	9.09	76.44	43.43
1.090	640.	0.0	0.0	2721.6	1190.0	2727.87	0.0	2729.66	253.51	10.74	114.48	74.74
1.090	640.	0.0	0.0	2721.6	1455.0	2728.52	0.0	2730.39	227.24	11.03	142.74	96.52
1.090	640.	0.0	0.0	2721.6	2220.0	2730.24	0.0	2731.97	156.78	10.99	286.60	177.30
1.120	140.	0.0	0.0	2724.6	695.0	2729.55	0.0	2731.22	168.43	10.39	66.87	53.55
1.120	140.	0.0	0.0	2724.6	1190.0	2730.99	0.0	2733.39	148.97	12.42	95.80	97.50
1.120	140.	0.0	0.0	2724.6	1455.0	2731.68	0.0	2734.42	142.24	13.28	109.60	122.00
1.120	140.	0.0	0.0	2724.6	2220.0	2734.35	0.0	2735.71	53.24	10.58	508.78	304.26
1.120	33.	2734.5	2732.7	2724.6	695.0	2729.75	0.0	2731.24	138.37	9.80	70.94	59.08
1.120	33.	2734.5	2732.7	2724.6	1190.0	2731.31	0.0	2733.42	120.41	11.65	102.12	108.45
1.120	33.	2734.5	2732.7	2724.6	1455.0	2732.05	0.0	2734.46	114.38	12.44	117.01	136.05
1.120	33.	2734.5	2732.7	2724.6	2220.0	2734.90	0.0	2735.83	36.17	9.11	672.02	369.11
1.120	10.	0.0	0.0	2726.6	695.0	2730.87	0.0	2732.16	173.73	9.14	79.80	52.73
1.120	10.	0.0	0.0	2726.6	1190.0	2732.10	0.0	2733.69	149.86	10.26	136.74	97.21
1.120	10.	0.0	0.0	2726.6	1455.0	2734.03	0.0	2734.69	42.12	7.04	395.49	224.18
1.120	10.	0.0	0.0	2726.6	2220.0	2735.28	0.0	2735.90	34.69	7.37	791.74	376.93
1.300	1050.	0.0	0.0	2751.2	660.0	2755.39	0.0	2756.63	172.68	8.97	76.67	50.22
1.300	1050.	0.0	0.0	2751.2	1125.0	2756.57	0.0	2758.11	149.16	10.08	129.95	92.11
1.300	1050.	0.0	0.0	2751.2	1375.0	2757.19	0.0	2758.74	131.34	10.21	174.47	119.98
1.300	1050.	0.0	0.0	2751.2	2095.0	2758.61	0.0	2760.00	88.83	10.20	390.91	222.28
1.460	765.	0.0	0.0	2786.4	630.0	2789.61	0.0	2790.34	187.33	7.22	143.06	46.03
1.460	765.	0.0	0.0	2786.4	1075.0	2790.33	0.0	2791.16	188.54	8.27	259.67	78.29
1.460	765.	0.0	0.0	2786.4	1315.0	2790.63	0.0	2791.50	185.57	8.67	320.56	96.53
1.460	765.	0.0	0.0	2786.4	1995.0	2791.22	0.0	2792.28	202.10	10.06	443.04	140.33

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	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	TDR*S	VCH	AREA	.DTK
*	1.480	100.	0.0	0.0	2793.5	630.0	2796.70	2796.70	2797.44	191.45	7.28	141.23	45.53
*	1.480	100.	0.0	0.0	2793.5	1075.0	2797.44	2797.44	2798.26	185.73	8.22	261.71	78.88
*	1.480	100.	0.0	0.0	2793.5	1315.0	2797.73	2797.73	2798.60	187.25	8.70	319.17	96.10
*	1.480	100.	0.0	0.0	2793.5	1995.0	2798.32	2798.32	2799.37	201.70	10.05	443.40	140.47
*	1.600	640.	0.0	0.0	2818.4	605.0	2821.54	2821.54	2822.28	194.58	7.26	133.14	43.37
*	1.600	640.	0.0	0.0	2818.4	1030.0	2822.26	2822.26	2823.09	192.19	8.23	245.58	74.30
*	1.600	640.	0.0	0.0	2818.4	1260.0	2822.54	2822.54	2823.42	191.52	8.67	302.80	91.05
*	1.600	640.	0.0	0.0	2818.4	1910.0	2823.12	2823.12	2824.19	207.01	10.02	423.43	132.75
*	1.710	615.	0.0	0.0	2834.2	580.0	2837.51	2837.51	2838.68	297.53	8.68	66.85	33.63
*	1.710	615.	0.0	0.0	2834.2	990.0	2838.59	2838.59	2840.08	273.04	9.79	101.15	59.91
*	1.710	615.	0.0	0.0	2834.2	1210.0	2839.08	2839.08	2840.70	264.41	10.22	118.34	74.41
*	1.710	615.	0.0	0.0	2834.2	1835.0	2840.44	2840.44	2842.14	195.61	10.55	202.42	131.20
*	1.720	40.	2844.2	2843.5	2837.6	580.0	2841.28	2841.28	2842.68	326.53	9.51	60.98	32.10
*	1.720	40.	2844.2	2843.5	2837.6	990.0	2842.49	2842.49	2844.47	319.86	11.29	87.66	55.35
*	1.720	40.	2844.2	2843.5	2837.6	1210.0	2845.10	2845.10	2845.52	321.96	6.34	352.48	67.44
*	1.720	40.	2844.2	2843.5	2837.6	1835.0	2845.29	2845.29	2846.01	534.96	8.52	405.16	79.34
	1.720	12.	2844.2	2843.5	2837.6	580.0	2842.19	0.0	2842.99	139.46	7.17	80.87	49.11
	1.720	12.	2844.2	2843.5	2837.6	990.0	2843.52	2842.49	2844.96	425.04	9.66	106.24	48.02
	1.720	12.	2844.2	2843.5	2837.6	1210.0	2845.58	0.0	2845.79	147.70	4.74	489.61	99.56
	1.720	12.	2844.2	2843.5	2837.6	1835.0	2846.12	0.0	2846.37	158.60	5.42	663.98	145.71
*	1.720	10.	0.0	0.0	2840.3	580.0	2843.20	2843.20	2844.09	267.25	7.63	83.52	35.48
*	1.720	10.	0.0	0.0	2840.3	990.0	2844.83	2844.23	2845.21	67.98	5.57	335.44	120.08
*	1.720	10.	0.0	0.0	2840.3	1210.0	2845.63	0.0	2845.87	36.39	4.68	560.02	200.57
*	1.720	10.	0.0	0.0	2840.3	1835.0	2846.17	0.0	2846.49	46.54	5.72	731.95	268.98
*	1.860	715.	0.0	0.0	2870.9	555.0	2873.94	2873.94	2875.15	307.57	8.83	62.88	31.65
*	1.860	715.	0.0	0.0	2870.9	945.0	2875.37	2875.37	2876.35	166.37	8.30	183.14	73.26
*	1.860	715.	0.0	0.0	2870.9	1155.0	2875.73	2875.73	2876.73	158.88	8.67	242.39	91.63
*	1.860	715.	0.0	0.0	2870.9	1750.0	2876.44	2876.44	2877.60	162.20	9.82	374.91	137.41

BROWN CREEK
SUMMARY PRINTOUT TABLE 150

SECNO	Q	CMSEL	DIFWSP	DIFWSX	DIFKWS	TOPMID	XLCH
0.040	895.	2621.4	0.0	0.0	0.0	150.93	0.0
0.040	1545.	2622.3	0.9	0.0	0.0	212.86	0.0
0.040	1900.	2622.7	0.4	0.0	0.0	249.61	0.0
0.040	2915.	2623.5	0.8	0.0	0.0	320.54	0.0
0.150	875.	2628.1	0.0	6.8	0.0	50.79	580.00
0.150	1510.	2629.4	1.3	7.1	0.0	144.17	580.00
0.150	1850.	2629.9	0.5	7.2	0.0	167.05	580.00
0.150	2840.	2631.1	1.2	7.5	0.0	219.02	580.00
0.270	855.	2637.8	0.0	9.7	0.0	25.44	610.00
0.270	1470.	2640.0	2.2	10.6	0.0	131.15	610.00
0.270	1800.	2640.6	0.6	10.7	0.0	159.84	610.00
0.270	2765.	2641.8	1.2	10.7	0.0	215.13	610.00
0.300	850.	2640.4	0.0	2.6	0.0	105.51	150.00
0.300	1460.	2641.9	1.5	1.8	0.0	185.34	150.00
0.300	1790.	2642.4	0.5	1.7	0.0	209.16	150.00
0.300	2745.	2643.5	1.1	1.7	0.0	241.22	150.00
0.440	820.	2652.7	0.0	12.3	0.0	38.62	680.00
0.440	1410.	2654.8	2.1	12.9	0.0	298.83	680.00
0.440	1730.	2655.2	0.4	12.8	0.0	305.50	680.00
0.440	2650.	2656.1	0.9	12.6	0.0	320.14	680.00
0.440	820.	2653.8	0.0	1.1	0.0	47.79	40.00
0.440	1410.	2655.4	1.6	0.7	0.0	290.85	40.00
0.440	1730.	2656.0	0.5	0.8	0.0	318.47	40.00
0.440	2650.	2656.8	0.8	0.7	0.0	331.74	40.00
0.440	820.	2654.1	0.0	0.3	0.0	123.36	1.00
0.440	1410.	2655.7	1.6	0.3	0.0	286.70	1.00
0.440	1730.	2656.2	0.4	0.2	0.0	300.04	1.00
0.440	2650.	2657.3	1.1	0.4	0.0	342.23	1.00
0.440	820.	2654.3	0.0	0.1	0.0	151.37	21.00
0.440	1410.	2656.0	1.7	0.2	0.0	293.25	21.00
0.440	1730.	2656.4	0.4	0.3	0.0	315.52	21.00
0.440	2650.	2657.5	1.0	0.2	0.0	348.24	21.00
0.440	820.	2654.2	0.0	-0.1	0.0	161.35	1.00
0.440	1410.	2655.9	1.7	-0.1	0.0	297.28	1.00
0.440	1730.	2656.4	0.4	-0.1	0.0	324.28	1.00
0.440	2650.	2657.3	1.0	-0.1	0.0	344.36	1.00
0.440	820.	2654.4	0.0	0.2	0.0	251.40	10.00
0.440	1410.	2656.0	1.7	0.1	0.0	318.95	10.00
0.440	1730.	2656.4	0.4	0.0	0.0	324.59	10.00
0.440	2650.	2657.3	1.0	0.0	0.0	345.05	10.00
0.600	790.	2669.5	0.0	15.2	0.0	68.34	800.00
0.600	1360.	2670.9	1.3	14.8	0.0	120.68	800.00

MDS

*	0.600	1665.	2671.2	0.4	14.9	0.0	125.49	800.00
*	0.600	2545.	2672.5	1.3	15.2	0.0	212.79	800.00

SECNO	Q	CUSEL	DIFMSP	DIFMSX	DIFPKS	TOPMID	XLCH
0.720	765.	2677.6	0.0	8.0	0.0	113.34	660.00
0.720	1315.	2678.6	1.1	7.7	0.0	126.30	660.00
0.720	1610.	2679.2	0.6	7.9	0.0	180.04	660.00
0.720	2460.	2680.1	0.9	7.6	0.0	218.99	660.00
* 0.730	765.	2682.5	0.0	5.0	0.0	109.70	40.00
* 0.730	1315.	2683.0	0.5	4.4	0.0	114.78	40.00
* 0.730	1610.	2683.5	0.4	4.3	0.0	118.97	40.00
* 0.730	2460.	2684.8	1.3	4.6	0.0	210.89	40.00
* 0.730	765.	2683.5	0.0	0.9	0.0	118.87	26.00
* 0.730	1315.	2684.4	1.0	1.4	0.0	128.22	26.00
* 0.730	1610.	2684.9	0.4	1.4	0.0	213.61	26.00
* 0.730	2460.	2685.4	0.5	0.6	0.0	224.77	26.00
* 0.730	765.	2684.0	0.0	0.5	0.0	68.17	10.00
* 0.730	1315.	2685.2	1.2	0.7	0.0	119.43	10.00
* 0.730	1610.	2685.7	0.5	0.8	0.0	125.67	10.00
* 0.730	2460.	2686.7	1.0	1.3	0.0	206.22	10.00
* 0.800	750.	2691.7	0.0	7.7	0.0	66.97	320.00
* 0.800	1290.	2692.9	1.2	7.8	0.0	118.91	320.00
* 0.800	1580.	2693.4	0.5	7.7	0.0	125.03	320.00
* 0.800	2415.	2694.5	1.0	7.8	0.0	205.19	320.00
* 0.930	725.	2706.5	0.0	14.8	0.0	35.97	615.00
* 0.930	1245.	2707.5	1.1	14.6	0.0	43.54	615.00
* 0.930	1525.	2708.0	0.5	14.6	0.0	45.55	615.00
* 0.930	2330.	2709.2	1.2	14.8	0.0	50.57	615.00
* 0.930	725.	2707.6	0.0	1.1	0.0	29.25	40.00
* 0.930	1245.	2708.6	1.7	1.7	0.0	48.11	40.00
* 0.930	1525.	2708.9	0.2	0.9	0.0	49.08	40.00
* 0.930	2330.	2710.4	1.5	1.2	0.0	55.35	40.00
* 0.930	725.	2708.1	0.0	0.5	0.0	30.21	12.00
* 0.930	1245.	2710.0	1.9	1.3	0.0	53.63	12.00
* 0.930	1525.	2710.3	0.3	1.4	0.0	55.09	12.00
* 0.930	2330.	2711.2	0.9	0.8	0.0	61.47	12.00
* 0.930	725.	2708.9	0.0	0.8	0.0	49.16	10.00
* 0.930	1245.	2710.6	1.7	0.6	0.0	56.17	10.00
* 0.930	1525.	2711.1	0.6	0.8	0.0	60.84	10.00
* 0.930	2330.	2712.7	1.5	1.5	0.0	72.91	10.00
* 0.970	720.	2709.4	0.0	0.5	0.0	30.07	195.00
* 0.970	1235.	2711.0	1.7	0.5	0.0	31.32	195.00
* 0.970	1510.	2711.6	0.6	0.5	0.0	32.79	195.00
* 0.970	2305.	2713.1	1.5	0.5	0.0	70.41	195.00
* 0.970	720.	2709.2	0.0	-0.2	0.0	18.00	20.00
* 0.970	1235.	2710.6	1.4	-0.4	0.0	18.00	20.00
* 0.970	1510.	2711.0	0.4	-0.6	0.0	18.00	20.00
* 0.970	2305.	2713.3	2.3	0.2	0.0	70.13	20.00

B06

SECNO	g	CMSL	DIFWSP	DIFWSX	DIFKMS	TOPMID	XLCH
0.970	720.	2709.3	0.0	0.0	0.0	18.00	12.00
0.970	1235.	2710.7	1.5	0.1	0.0	18.00	12.00
0.970	1510.	2711.2	0.4	0.1	0.0	18.00	12.00
0.970	2305.	2714.5	3.4	1.2	0.0	103.89	12.00
0.970	720.	2710.7	0.0	1.4	0.0	30.39	5.00
0.970	1235.	2711.8	0.2	1.3	0.0	38.07	5.00
0.970	1510.	2712.5	0.6	-0.1	0.0	53.81	5.00
0.970	2305.	2714.5	2.0	0.1	0.0	110.24	5.00
1.090	695.	2726.7	0.0	16.0	0.0	26.97	640.00
1.090	1190.	2727.9	1.2	16.0	0.0	39.43	640.00
1.090	1455.	2728.5	0.6	16.0	0.0	47.76	640.00
1.090	2220.	2730.2	1.7	15.8	0.0	144.38	640.00
1.120	695.	2729.5	0.0	2.9	0.0	20.00	140.00
1.120	1190.	2731.0	1.4	3.1	0.0	20.00	140.00
1.120	1455.	2731.7	0.7	3.2	0.0	20.00	140.00
1.120	2220.	2734.3	2.7	4.1	0.0	249.18	140.00
1.120	695.	2729.8	0.0	0.2	0.0	20.00	33.00
1.120	1190.	2731.3	1.6	0.3	0.0	20.00	33.00
1.120	1455.	2732.1	0.7	0.4	0.0	20.00	33.00
1.120	2220.	2734.9	2.8	0.6	0.0	371.70	33.00
1.120	695.	2730.9	0.0	1.1	0.0	37.97	10.00
1.120	1190.	2732.1	1.2	0.8	0.0	59.81	10.00
1.120	1455.	2734.0	1.9	2.0	0.0	227.90	10.00
1.120	2220.	2735.3	1.2	0.4	0.0	469.62	10.00
1.300	660.	2755.4	0.0	24.5	0.0	36.84	1050.00
1.300	1125.	2756.6	1.2	24.5	0.0	52.93	1050.00
1.300	1375.	2757.2	0.6	23.2	0.0	93.27	1050.00
1.300	2095.	2758.6	1.4	23.3	0.0	225.51	1050.00
1.460	630.	2789.6	0.0	34.2	0.0	131.46	765.00
1.460	1075.	2790.3	0.7	33.8	0.0	196.67	765.00
1.460	1315.	2790.6	0.3	33.4	0.0	205.85	765.00
1.460	1995.	2791.2	0.6	32.6	0.0	210.00	765.00
1.480	630.	2796.7	0.0	7.1	0.0	131.02	100.00
1.480	1075.	2797.4	0.7	7.1	0.0	196.98	100.00
1.480	1315.	2797.7	0.3	7.1	0.0	205.64	100.00
1.480	1995.	2798.3	0.6	7.1	0.0	210.07	100.00
1.600	605.	2821.5	0.0	24.8	0.0	129.08	640.00
1.600	1030.	2822.3	0.7	24.8	0.0	194.47	640.00
1.600	1260.	2822.5	0.3	24.8	0.0	203.20	640.00
1.600	1910.	2823.1	0.6	24.8	0.0	209.63	640.00
1.710	580.	2837.5	0.0	16.0	0.0	29.07	615.00
1.710	990.	2838.6	1.1	16.3	0.0	34.16	615.00
1.710	1210.	2839.1	0.5	16.5	0.0	36.45	615.00
1.710	1835.	2840.4	1.4	17.3	0.0	106.29	615.00

C06

006

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
* 1.720	580.	2841.3	0.0	3.8	0.0	22.00	40.00
* 1.720	990.	2842.5	1.2	3.9	0.0	22.00	40.00
* 1.720	1210.	2845.1	2.6	6.0	0.0	269.70	40.00
* 1.720	1835.	2845.3	0.2	4.9	0.0	282.70	40.00
1.720	580.	2842.2	0.0	0.9	0.0	22.00	12.00
1.720	990.	2843.5	1.3	1.0	0.0	41.54	12.00
1.720	1210.	2845.6	2.1	0.5	0.0	302.41	12.00
1.720	1835.	2846.1	0.5	0.8	0.0	335.63	12.00
* 1.720	580.	2843.2	0.0	1.0	0.0	61.85	10.00
1.720	990.	2844.8	1.6	1.3	0.0	250.91	10.00
1.720	1210.	2845.6	0.8	0.1	0.0	305.98	10.00
1.720	1835.	2846.2	0.5	0.0	0.0	338.67	10.00
* 1.860	555.	2873.9	0.0	30.7	0.0	26.78	715.00
* 1.860	945.	2875.4	1.4	30.5	0.0	158.30	715.00
* 1.860	1155.	2875.7	0.4	30.1	0.0	171.76	715.00
* 1.860	1750.	2876.4	0.7	30.3	0.0	198.64	715.00

SUMMARY OF ERRORS

CAUTION SECNO= 0.150 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.270 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.270 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.270 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.270 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.440 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.440 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.440 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.440 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.440 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.440 PROFILE= 2

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.440 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.440 PROFILE= 3

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.440 PROFILE= 3

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.440 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.440 PROFILE= 4

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.440 PROFILE= 4

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.600 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.600 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.600 PROFILE= 1

006

D06

20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 0.600 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 0.600 PROFILE= 2
 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 0.600 PROFILE= 2
 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 0.600 PROFILE= 3 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 0.600 PROFILE= 3
 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 0.600 PROFILE= 3
 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 0.600 PROFILE= 4 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 0.600 PROFILE= 4
 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 0.600 PROFILE= 4
 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 0.730 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 0.730 PROFILE= 1
 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 0.730 PROFILE= 1
 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 0.730 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 0.730 PROFILE= 2
 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 0.730 PROFILE= 2
 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 0.730 PROFILE= 3 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 0.730 PROFILE= 3
 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 0.730 PROFILE= 3
 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 0.730 PROFILE= 4 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 0.730 PROFILE= 4
 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 0.730 PROFILE= 4
 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 0.730 PROFILE= 2 HYDRAULIC JUMP D.S.
 CAUTION SECNO= 0.730 PROFILE= 3 HYDRAULIC JUMP D.S.
 CAUTION SECNO= 0.730 PROFILE= 4 HYDRAULIC JUMP D.S.
 CAUTION SECNO= 0.730 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 0.730 PROFILE= 1
 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 0.730 PROFILE= 1
 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 0.730 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 0.730 PROFILE= 2
 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 0.730 PROFILE= 2
 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 0.730 PROFILE= 3 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 0.730 PROFILE= 3
 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 0.730 PROFILE= 3
 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 0.730 PROFILE= 4 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 0.730 PROFILE= 4
 PROBABLE MINIMUM SPECIFIC ENERGY

E06

CAUTION SECNO= 0.730 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.730 PROFILE= 4
PROBABLE MINIMUM SPECIFIC ENERGY

E06

CAUTION SECNO= 0.730 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.800 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.800 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.800 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.800 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.930 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.930 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.930 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.930 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.930 PROFILE= 4

PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 0.930 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.930 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.930 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.930 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.930 PROFILE= 3

PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 0.930 PROFILE= 3
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 0.930 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.930 PROFILE= 3 HYDRAULIC JUMP D.S.
CAUTION SECNO= 0.930 PROFILE= 4 HYDRAULIC JUMP D.S.

CAUTION SECNO= 0.970 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.970 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.970 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.970 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 0.970 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.970 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 0.970 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 0.970 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.970 PROFILE= 3
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 0.970 PROFILE= 3
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.090 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.090 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.090 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.120 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.120 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.120 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.120 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.120 PROFILE= 4
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.120 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.120 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

FD6

CAUTION SECNO= 1.120 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.120 PROFILE= 4
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.120 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.120 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.120 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.120 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.120 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.120 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.120 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.300 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.300 PROFILE= 2 CRITICAL DEPTH ASSUMED
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CAUTION SECNO= 1.300 PROFILE= 3
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.300 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.300 PROFILE= 4
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.300 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.460 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.460 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.460 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.460 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.460 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.460 PROFILE= 3
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.460 PROFILE= 3
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.460 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.460 PROFILE= 4
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.460 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.480 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.480 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.480 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.480 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.480 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.480 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.480 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.480 PROFILE= 3
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.480 PROFILE= 3
PROBABLE MINIMUM SPECIFIC ENERGY

GD6

CAUTION SECNO= 1.480 PROFILE= 3
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.480 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.480 PROFILE= 4
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.480 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.600 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.600 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.600 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.600 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.710 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.710 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.710 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.710 PROFILE= 3
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.710 PROFILE= 3
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.710 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.720 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.720 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.720 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.720 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.720 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.720 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.720 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.720 PROFILE= 3
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.720 PROFILE= 3
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.720 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.720 PROFILE= 4
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.720 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.720 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.720 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.720 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.860 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.860 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.860 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.860 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.860 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.860 PROFILE= 3
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.860 PROFILE= 3
20 TRIALS ATTEMPTED TO BALANCE WSEL

HD6

PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.860 PROFILE= 3
20 TRIALS ATTEMPTED TO BALANCE WSEL

HD6

CAUTION SECNO= 1.860 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.860 PROFILE= 4
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.860 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

BROWN 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
0.040	2915.	2623.5	1900.	2622.7	1545.	2622.3	895.	2621.4
0.150	2840.	2631.1	1850.	2629.9	1510.	2629.4	875.	2628.1
0.270	2765.	2641.8	1800.	2640.6	1470.	2640.0	855.	2637.8
0.300	2745.	2643.5	1790.	2642.4	1460.	2641.9	850.	2640.4
0.440	2650.	2656.1	1730.	2655.2	1410.	2654.8	820.	2652.7
0.440	2650.	2657.3	1730.	2656.4	1410.	2656.0	820.	2654.4
0.600	2545.	2672.5	1665.	2671.2	1360.	2670.9	790.	2669.5
0.720	2460.	2680.1	1610.	2679.2	1315.	2678.6	765.	2677.6
0.730	2460.	2684.8	1610.	2683.5	1315.	2683.0	765.	2682.5
0.730	2460.	2686.7	1610.	2685.7	1315.	2685.2	765.	2684.0
0.800	2415.	2694.5	1580.	2693.4	1290.	2692.9	750.	2691.7
0.930	2330.	2709.2	1525.	2708.0	1245.	2707.5	725.	2706.5
0.930	2330.	2712.7	1525.	2711.1	1245.	2710.6	725.	2708.9
0.970	2305.	2713.1	1510.	2711.6	1235.	2711.0	720.	2709.4
0.970	2305.	2714.5	1510.	2712.5	1235.	2711.8	720.	2710.7
1.090	2220.	2730.2	1455.	2728.5	1190.	2727.9	695.	2726.7
1.120	2220.	2734.3	1455.	2731.7	1190.	2731.0	695.	2729.5
1.120	2220.	2735.3	1455.	2734.0	1190.	2732.1	695.	2730.9
1.300	2095.	2758.6	1375.	2757.2	1125.	2756.6	660.	2755.4
1.460	1995.	2791.2	1315.	2790.6	1075.	2790.3	630.	2789.6
1.480	1995.	2798.3	1315.	2797.7	1075.	2797.4	630.	2796.7
1.600	1910.	2823.1	1260.	2822.5	1030.	2822.3	605.	2821.5
1.710	1835.	2840.4	1210.	2839.1	990.	2838.6	580.	2837.5
1.720	1835.	2845.3	1210.	2845.1	990.	2842.5	580.	2841.3
1.720	1835.	2846.2	1210.	2845.6	990.	2844.8	580.	2843.2
1.860	1750.	2876.4	1155.	2875.7	945.	2875.4	555.	2873.9

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AD1

THIS RUN EXECUTED 02/28/81 11:53:51

 HEC2 RELEASE DATED NOV 76 UPDATED JULY 1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53,54

T1 YANCEY CO NC FEMA STUDY RAM 1-30-81 BROWN 5
 T2 100 YR FLOOD GD, HCDG113 10
 T3 BROWN CREEK 100 YR FLOODWAY 15

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ
 0. 4. 0. 0. 0.01334 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. 895. 1545. 1900. 2915. 1900. 0. 0. 0. 0. 35
 NC 0.150 0.130 0.045 0.1 0.5 7.11 200.00 245.00 0.0 0.0 40
 ET 0. 0.0 0.0 0.0 0.0 7.11 200.00 245.00 0.0 0.0 45

X1 0.04 25. 206. 239. 0. 0. 0. 0.0 0.0 0. 50
 GR 2638.4 0. 2621.2 45. 2620.7 61. 2618.7 86. 2619.8 97. 55
 GR 2623.1 200. 2622.4 206. 2618.1 209. 2617.0 214. 2617.0 217. 60
 GR 2618.1 222. 2618.9 235. 2621.2 239. 2620.5 252. 2623.6 267. 65
 GR 2622.0 281. 2621.9 290. 2622.8 325. 2624.0 385. 2624.4 487. 70
 GR 2626.2 547. 2634.6 575. 2634.4 590. 2634.0 592. 2638.4 603. 75
 QT 5. 875. 1510. 1850. 2840. 1850. 0. 0. 0. 0. 80
 NC 0.150 0.150 0.050 0.0 0.8 7.11 280.00 310.00 0.0 0.0 85
 ET 0. 0.0 0.0 0.0 0.0 7.11 280.00 310.00 0.0 0.0 90

X1 0.15 17. 285. 309. 580. 580. 580. 0.0 -10.90 0. 95
 GR 2654.3 0. 2648.3 11. 2641.8 133. 2639.9 210. 2639.0 280. 100
 GR 2637.0 285. 2634.1 287. 2633.4 292. 2633.5 295. 2633.4 298. 105
 GR 2634.1 303. 2638.2 309. 2638.5 325. 2643.8 362. 2646.0 385. 110
 GR 2648.3 427. 2654.2 481. 0.0 0. 0.0 0. 0.0 0. 115
 NC 0.100 0.120 0.045 0.0 0.0 7.11 280.00 310.00 0.0 0.0 120
 QT 5. 855. 1470. 1800. 2765. 1800. 0. 0. 0. 0. 125
 ET 0. 0.0 0.0 0.0 0.0 7.11 280.00 310.00 0.0 0.0 130

X1 0.27 17. 285. 309. 610. 610. 610. 0.0 0.0 0. 135
 GR 2654.3 0. 2648.3 11. 2641.8 133. 2639.9 210. 2639.0 280. 140
 GR 2637.0 285. 2634.1 287. 2633.4 292. 2633.5 295. 2633.4 298. 145
 GR 2634.1 303. 2638.2 309. 2638.5 325. 2643.8 362. 2646.0 385. 150
 GR 2648.3 427. 2654.2 481. 0.0 0. 0.0 0. 0.0 0. 155
 QT 5. 850. 1460. 1790. 2745. 1790. 0. 0. 0. 0. 160
 NC 0.0 0.0 0.0 0.0 0.5 7.11 280.00 310.00 0.0 0.0 165

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 3

B01

ET	0.	0.0	0.0	0.0	0.0	7.11	280.00	310.00	0.0	0.0	170
X1	0.30	0.	0.	0.	150.	150.	150.	0.0	0.70	0.	175
NC	0.100	0.130	0.040	0.0	0.0						180
QT	5.	820.	1410.	1730.	2650.	1730.	0.	0.	0.	0.	185
ET	0.	0.0	0.0	0.0	0.0	7.11	75.00	175.00	0.0	0.0	190
X1	0.44	21.	77.	103.	680.	680.	680.	0.0	0.0	0.	195
GR	2670.0	0.	2658.0	24.	2657.8	26.	2658.0	35.	2657.6	51.	200
GR	2657.0	61.	2653.0	72.	2652.6	77.	2650.0	84.	2648.4	90.	205
GR	2648.3	92.	2648.6	99.	2649.1	101.	2650.9	103.	2652.5	113.	210
GR	2654.2	126.	2653.8	163.	2654.3	275.	2654.4	361.	2662.6	470.	215
GR	2669.6	495.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	220
ET	0.	0.0	0.0	0.0	0.0	7.11	75.00	175.00	0.0	0.0	225
X1	0.44	21.	84.	113.	40.	40.	40.	0.0	0.0	0.	230
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2655.7	2653.3		235
GR	2670.0	0.	2658.0	24.	2657.8	26.	2658.0	35.	2657.6	51.	240
GR	2657.0	61.	2653.0	72.	2652.6	77.	2650.0	84.	2648.4	90.	245
GR	2648.3	92.	2648.6	99.	2649.1	101.	2650.9	103.	2652.5	113.	250
GR	2654.2	126.	2653.8	163.	2654.3	275.	2654.4	361.	2662.6	470.	255
GR	2669.6	495.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	260
ET	0.	0.0	0.0	0.0	0.0	7.11	75.00	175.00	0.0	0.0	265
X1	0.44	22.	84.	113.	1.	1.	1.	0.0	0.0	0.	270
BT	4.0	84.0	2656.7	0.0	84.0	2656.7	2654.6	113.0	2656.4	2654.5	275
BT	113.0	2656.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	280
GR	2670.0	0.	2658.0	24.	2657.8	26.	2658.0	35.	2657.6	51.	285
GR	2657.0	61.	2656.1	63.	2656.7	84.	2652.0	84.	2651.4	87.	290
GR	2650.0	87.	2647.7	91.	2647.4	95.	2649.0	104.	2651.6	113.	295
GR	2656.4	113.	2654.0	143.	2653.8	163.	2654.3	275.	2654.4	361.	300
GR	2662.6	470.	2669.6	495.	0.0	0.	0.0	0.	0.0	0.	305
ET	0.	0.0	0.0	0.0	0.0	7.11	75.00	175.00	0.0	0.0	310
X1	0.44	0.	0.	0.	21.	21.	21.	0.0	0.0	0.	315
X2	0.	0.0	0.	0.0	0.0	0.0	1.	0.0	0.0	0.	320
NC	0.130	0.150	0.045	0.0	0.0						325
ET	0.	0.0	0.0	0.0	0.0	7.11	75.00	175.00	0.0	0.0	330
X1	0.44	21.	84.	113.	1.	1.	1.	0.0	0.0	0.	335
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2656.2	2653.8		340
GR	2670.0	0.	2658.0	24.	2657.8	26.	2658.0	35.	2657.6	51.	345
GR	2657.0	61.	2653.0	72.	2652.6	77.	2650.0	84.	2648.4	90.	350
GR	2648.3	92.	2648.6	99.	2649.1	101.	2650.9	103.	2652.5	113.	355
GR	2654.2	126.	2653.8	163.	2654.3	275.	2654.4	361.	2662.6	470.	360
GR	2669.6	495.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	365
ET	0.	0.0	0.0	0.0	0.0	7.11	75.00	175.00	0.0	0.0	370
X1	0.44	21.	77.	103.	10.	10.	10.	0.0	0.0	0.	375
GR	2670.0	0.	2658.0	24.	2657.8	26.	2658.0	35.	2657.6	51.	380
GR	2657.0	61.	2653.0	72.	2652.6	77.	2650.0	84.	2648.4	90.	385
GR	2648.3	92.	2648.6	99.	2649.1	101.	2650.9	103.	2652.5	113.	390
GR	2654.2	126.	2653.8	163.	2654.3	275.	2654.4	361.	2662.6	470.	395

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C01

GR	2669.6	495.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	400
QT	5.	790.	1360.	1665.	2545.	1665.	0.	0.	0.	0.	405
ET	0.	0.0	0.0	0.0	0.0	7.11	140.00	200.00	0.0	0.0	410
X1	0.60	19.	144.	167.	800.	800.	800.	0.0	-12.30	0.	415
GR	2697.6	0.	2687.6	29.	2683.9	75.	2684.3	136.	2682.9	140.	420
GR	2681.1	144.	2677.6	148.	2676.8	152.	2676.9	156.	2677.7	160.	425
GR	2679.0	162.	2682.3	167.	2682.5	175.	2682.3	192.	2682.5	198.	430
GR	2680.8	210.	2680.7	236.	2687.3	300.	2697.6	413.	0.0	0.	435
QT	5.	765.	1315.	1610.	2460.	1610.	0.	0.	0.	0.	440
NC	0.130	0.150	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	445
ET	0.	0.0	0.0	0.0	0.0	7.11	140.00	200.00	0.0	0.0	450
X1	0.72	19.	144.	167.	660.	660.	660.	0.0	-5.00	0.	455
GR	2697.6	0.	2687.6	29.	2683.9	75.	2684.3	136.	2682.9	140.	460
GR	2681.1	144.	2677.6	148.	2676.8	152.	2676.9	156.	2677.7	160.	465
GR	2679.0	162.	2682.3	167.	2682.5	175.	2682.3	192.	2682.5	198.	470
GR	2680.8	210.	2680.7	236.	2687.3	300.	2697.6	413.	0.0	0.	475
ET	0.	0.0	0.0	0.0	0.0	7.11	140.00	200.00	0.0	0.0	480
X1	0.73	0.	0.	0.	40.	40.	40.	0.0	5.00	0.	485
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2684.2	2682.5	0.	490
SB	1.25	1.60	3.00	0.	17.00	0.40	98.00	0.0	2676.8	2676.8	495
ET	0.	0.0	0.0	0.0	0.0	7.11	140.00	200.00	0.0	0.0	500
X1	0.73	0.	0.	0.	26.	26.	26.	0.0	0.0	0.	505
X2	0.	0.0	1.	2682.7	2683.0	0.0	0.	0.0	0.0	0.	510
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2684.7	2683.0	0.	515
BT	12.0	0.0	2697.6	0.0	29.0	2687.6	0.0	50.0	2685.9	0.0	520
BT	144.0	2684.7	0.0	144.0	2685.8	2684.7	167.0	2686.0	2684.5	167.0	525
BT	2684.5	0.0	188.0	2684.5	0.0	233.0	2683.3	0.0	259.0	2683.0	530
BT	0.0	300.0	2687.3	0.0	413.0	2697.6	0.0	0.0	0.0	0.0	535
NC	0.0	0.120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	540
ET	0.	0.0	0.0	0.0	0.0	7.11	140.00	200.00	0.0	0.0	545
X1	0.73	19.	144.	167.	10.	10.	10.	0.0	0.0	0.	550
GR	2699.8	0.	2689.8	29.	2686.1	75.	2686.5	136.	2685.1	140.	555
GR	2683.3	144.	2679.8	148.	2679.0	152.	2679.1	156.	2679.9	160.	560
GR	2681.2	162.	2684.5	167.	2684.7	175.	2684.5	192.	2684.7	198.	565
GR	2683.0	210.	2682.7	236.	2689.5	300.	2699.8	413.	0.0	0.	570
QT	5.	750.	1290.	1580.	2415.	1580.	0.	0.	0.	0.	575
ET	0.	0.0	0.0	0.0	0.0	7.11	140.00	200.00	0.0	0.0	580
X1	0.80	0.	0.	0.	320.	320.	320.	0.0	7.80	0.	585
QT	5.	725.	1245.	1525.	2330.	1525.	0.	0.	0.	0.	590
NC	0.130	0.100	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	595
ET	0.	0.0	0.0	0.0	0.0	7.11	50.00	95.00	0.0	0.0	600
X1	0.93	19.	50.	94.	615.	615.	615.	0.0	0.0	0.	605
GR	2724.0	0.	2720.0	7.	2717.5	16.	2712.0	41.	2710.6	50.	610
GR	2704.3	62.	2703.6	70.	2703.2	73.	2702.4	74.	2703.0	80.	615
GR	2704.4	85.	2706.5	94.	2706.9	98.	2714.5	115.	2714.8	121.	620
GR	2713.3	142.	2716.1	149.	2717.0	215.	2730.0	215.	0.0	0.	625

D01

DD1

ET	0.	0.0	0.0	0.0	0.0	7.11	50.00	95.00	0.0	0.0	630
X1	0.93	19.	70.	85.	40.	40.	40.	0.0	0.0	0.	635
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2707.5	2708.6	0.	640
GR	2724.0	0.	2720.0	7.	2717.5	16.	2712.0	41.	2710.6	50.	645
GR	2704.3	62.	2703.6	70.	2703.2	73.	2702.4	74.	2703.0	80.	650
GR	2704.4	85.	2706.5	94.	2706.9	98.	2714.5	115.	2714.8	121.	655
GR	2713.3	142.	2716.1	149.	2717.0	215.	2730.0	215.	0.0	0.	660
SB	1.25	1.60	3.00	0.	15.00	0.10	88.00	0.0	2701.7	2701.7	665
ET	0.	0.0	0.0	0.0	0.0	7.11	50.00	95.00	0.0	0.0	670
X1	0.93	0.	0.	0.	12.	12.	12.	0.0	0.0	0.	675
X2	0.	0.0	1.	2707.6	2708.0	0.0	0.	0.0	0.0	0.	680
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2708.0	2709.1	0.	685
BT	18.0	0.0	2724.0	0.0	7.0	2720.0	0.0	16.0	2717.5	0.0	690
BT	41.0	2712.0	0.0	50.0	2710.6	0.0	53.0	2709.1	0.0	61.0	695
BT	2708.1	0.0	69.0	2708.0	0.0	86.0	2709.1	0.0	95.0	2710.2	700
BT	0.0	96.0	2710.1	0.0	110.0	2712.0	0.0	115.0	2714.5	0.0	705
BT	121.0	2714.8	0.0	142.0	2713.3	0.0	149.0	2716.1	0.0	215.0	710
BT	2717.0	0.0	215.0	2730.0	0.0	0.0	0.0	0.0	0.0	0.0	715
ET	0.	0.0	0.0	0.0	0.0	7.11	50.00	95.00	0.0	0.0	720
X1	0.93	19.	50.	94.	10.	10.	10.	0.0	0.0	0.	725
GR	2724.0	0.	2720.0	7.	2717.5	16.	2712.0	41.	2710.6	50.	730
GR	2704.3	62.	2703.6	70.	2703.2	73.	2702.4	74.	2703.0	80.	735
GR	2704.4	85.	2706.5	94.	2706.9	98.	2714.5	115.	2714.8	121.	740
GR	2713.3	142.	2716.1	149.	2717.0	215.	2730.0	215.	0.0	0.	745
QT	5.	720.	1235.	1510.	2305.	1510.	0.	0.	0.	0.	750
NC	0.130	0.100	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	755
ET	0.	0.0	0.0	0.0	0.0	7.11	115.00	150.00	0.0	0.0	760
X1	0.97	27.	116.	148.	195.	195.	195.	0.0	0.0	0.	765
GR	2729.0	0.	2724.5	10.	2719.3	30.	2714.0	116.	2708.5	116.	770
GR	2704.0	120.	2704.3	125.	2704.3	131.	2704.2	136.	2704.4	138.	775
GR	2704.7	142.	2711.6	148.	2716.5	269.	2718.5	275.	2718.7	278.	780
GR	2718.3	375.	2717.5	405.	2714.9	408.	2714.5	411.	2714.5	414.	785
GR	2718.2	420.	2717.6	522.	2718.4	554.	2717.6	556.	2720.9	565.	790
GR	2724.7	630.	2730.5	681.	0.0	0.	0.0	0.	0.0	0.	795
ET	0.	0.0	0.0	0.0	0.0	7.11	115.00	150.00	0.0	0.0	800
X1	0.97	27.	120.	138.	20.	20.	20.	0.0	0.0	0.	805
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2714.6	2713.3	0.	810
GR	2729.0	0.	2724.5	10.	2719.3	30.	2714.0	116.	2708.5	116.	815
GR	2704.0	120.	2704.3	125.	2704.3	131.	2704.2	136.	2704.4	138.	820
GR	2704.7	142.	2711.6	148.	2716.5	269.	2718.5	275.	2718.7	278.	825
GR	2718.3	375.	2717.5	405.	2714.9	408.	2714.5	411.	2714.5	414.	830
GR	2718.2	420.	2717.6	522.	2718.4	554.	2717.6	556.	2720.9	565.	835
GR	2724.7	630.	2730.5	681.	0.0	0.	0.0	0.	0.0	0.	840
SB	1.25	1.60	3.00	0.	18.00	0.10	170.00	0.0	2704.0	2704.0	845
ET	0.	0.0	0.0	0.0	0.0	7.11	115.00	150.00	0.0	0.0	850
X1	0.97	0.	0.	0.	12.	12.	12.	0.0	0.0	0.	855
X2	0.	0.0	1.	2713.5	2713.8	0.0	0.	0.0	0.0	0.	860
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2715.1	2713.8	0.	865

EO1

2704.0 2704.0 0.0 870

E01

BT	22.0	0.0	2729.0	0.0	8.0	2725.2	0.0	116.0	2715.1	0.0	870
BT	116.0	2715.2	0.0	148.0	2714.3	0.0	148.0	2713.8	0.0	174.0	875
BT	2713.8	0.0	193.0	2714.3	0.0	223.0	2717.7	0.0	278.0	2718.7	880
BT	0.0	375.0	2718.3	0.0	405.0	2717.5	0.0	408.0	2714.9	0.0	885
BT	411.0	2714.5	0.0	414.0	2714.5	0.0	420.0	2718.2	0.0	522.0	890
BT	2717.6	0.0	554.0	2718.4	0.0	556.0	2717.6	0.0	565.0	2720.9	895
BT	0.0	630.0	2724.7	0.0	681.0	2730.5	0.0	0.0	0.0	0.0	900
ET	0.	0.0	0.0	0.0	0.0	7.11	115.00	150.00	0.0	0.0	905
X1	0.97	26.	116.	148.	5.	5.	5.	0.0	0.0	0.	910
GR	2729.0	0.	2724.5	10.	2719.3	30.	2714.0	116.	2708.5	116.	915
GR	2707.6	119.	2707.9	126.	2707.9	131.	2707.7	136.	2708.2	142.	920
GR	2711.6	148.	2716.5	269.	2718.5	275.	2718.7	278.	2718.3	375.	925
GR	2717.5	405.	2714.9	408.	2714.5	411.	2714.5	414.	2718.2	420.	930
GR	2717.6	522.	2718.4	554.	2717.6	556.	2720.9	565.	2724.7	530.	935
GR	2730.5	681.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	940
NC	0.120	0.120	0.050	0.0	0.0	0.	0.0	0.	0.0	0.	945
QT	5.	695.	1190.	1455.	2220.	1455.	0.	0.	0.	0.	950
ET	0.	0.0	0.0	0.0	0.0	7.11	440.00	480.00	0.0	0.0	955
X1	1.09	28.	442.	476.	640.	640.	640.	0.0	-3.00	0.	960
GR	2748.9	0.	2741.4	30.	2739.5	75.	2738.8	175.	2738.7	272.	965
GR	2733.0	287.	2732.0	296.	2734.1	391.	2733.5	404.	2730.0	442.	970
GR	2728.5	445.	2724.6	455.	2726.0	461.	2727.4	465.	2732.9	476.	975
GR	2733.6	496.	2736.2	623.	2737.0	645.	2737.2	675.	2736.0	775.	980
GR	2734.7	850.	2734.6	885.	2735.5	1025.	2738.0	1075.	2738.2	1175.	985
GR	2740.0	1275.	2743.9	1875.	2750.0	1875.	0.0	0.	0.0	0.	990
NC	0.0	0.0	0.040	0.0	0.0	0.	0.0	0.	0.0	0.	995
ET	0.	0.0	0.0	0.0	0.0	7.11	440.00	480.00	0.0	0.0	1000
X1	1.12	28.	445.	465.	140.	140.	140.	0.0	0.0	0.	1005
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2734.2	2734.0	0.	1010
GR	2748.9	0.	2741.4	30.	2739.5	75.	2738.8	175.	2738.7	272.	1015
GR	2733.0	287.	2732.0	296.	2734.1	391.	2733.5	404.	2730.0	442.	1020
GR	2728.5	445.	2724.6	455.	2726.0	461.	2727.4	465.	2732.9	476.	1025
GR	2733.6	496.	2736.2	623.	2737.0	645.	2737.2	675.	2736.0	775.	1030
GR	2734.7	850.	2734.6	885.	2735.5	1025.	2738.0	1075.	2738.2	1175.	1035
GR	2740.0	1275.	2743.9	1875.	2750.0	1875.	0.0	0.	0.0	0.	1040
SB	1.25	1.60	3.00	0.	25.00	0.30	200.00	0.0	2724.6	2724.6	1045
ET	0.	0.0	0.0	0.0	0.0	7.11	440.00	480.00	0.0	0.0	1050
X1	1.12	0.	0.	0.	33.	33.	33.	0.0	0.0	0.	1055
X2	0.	0.0	1.	2732.7	2734.5	0.0	0.	0.0	0.0	0.	1060
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2734.7	2734.5	0.	1065
BT	23.0	0.0	2748.9	0.0	30.0	2741.4	0.0	75.0	2739.5	0.0	1070
BT	175.0	2738.8	0.0	272.0	2738.7	0.0	277.0	2736.9	0.0	442.0	1075
BT	2734.7	0.0	442.0	2735.5	2732.7	473.0	2735.2	2732.2	473.0	2734.5	1080
BT	0.0	537.0	2734.5	0.0	623.0	2736.2	0.0	645.0	2737.0	0.0	1085
BT	675.0	2737.2	0.0	775.0	2736.0	0.0	850.0	2734.7	0.0	885.0	1090
BT	2734.6	0.0	1025.0	2735.5	0.0	1075.0	2738.0	0.0	1175.0	2738.2	1095
BT	0.0	1275.0	2740.0	0.0	1875.0	2743.9	0.0	1875.0	2750.0	0.0	1100
NC	0.130	0.150	0.0	0.0	0.0	0.	0.0	0.	0.0	0.	1105
ET	0.	0.0	0.0	0.0	0.0	7.11	440.00	480.00	0.0	0.0	1110
X1	1.12	26.	442.	476.	10.	10.	10.	0.0	0.0	0.	1115

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F01

GR	2748.9	0.	2741.4	30.	2739.5	75.	2738.8	175.	2738.7	272.	1120
GR	2733.0	287.	2732.0	296.	2734.1	391.	2733.5	404.	2730.0	442.	1125
GR	2726.6	454.	2727.0	460.	2732.9	476.	2733.6	496.	2736.2	623.	1130
GR	2737.0	645.	2737.2	675.	2736.0	775.	2734.7	850.	2734.6	885.	1135
GR	2735.5	1025.	2738.0	1075.	2738.2	1175.	2740.0	1275.	2743.9	1875.	1140
GR	2750.0	1875.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	1145
QT	5.	660.	1125.	1375.	2095.	1375.	0.	0.	0.	0.	1150
ET	0.	0.0	0.0	0.0	0.0	7.11	440.00	480.00	0.0	0.0	1155

X1	1.30	0.	0.	0.	1050.	1050.	1050.	0.0	24.60	0.	1160
QT	5.	630.	1075.	1315.	1995.	1315.	0.	0.	0.	0.	1165
NC	0.150	0.130	0.050	0.0	0.0						1170
ET	0.	0.0	0.0	0.0	0.0	7.11	410.00	450.00	0.0	0.0	1175

X1	1.46	24.	412.	445.	765.	765.	765.	0.0	0.0	0.	1180
GR	2807.8	0.	2804.5	60.	2802.0	100.	2800.1	150.	2797.2	203.	1185
GR	2795.0	250.	2791.7	279.	2789.1	285.	2789.0	303.	2788.7	361.	1190
GR	2790.7	412.	2786.9	415.	2786.4	426.	2786.5	435.	2790.0	445.	1195
GR	2790.0	464.	2790.0	480.	2790.0	488.	2799.8	505.	2800.0	533.	1200
GR	2799.5	552.	2798.0	560.	2804.9	570.	2807.8	605.	0.0	0.	1205
ET	0.	0.0	0.0	0.0	0.0	7.11	410.00	450.00	0.0	0.0	1210

X1	1.48	0.	0.	0.	100.	100.	100.	0.0	7.10	0.	1215
QT	5.	605.	1030.	1260.	1910.	1260.	0.	0.	0.	0.	1220
ET	0.	0.0	0.0	0.0	0.0	7.11	410.00	450.00	0.0	0.0	1225

X1	1.60	0.	0.	0.	640.	640.	640.	0.0	24.90	0.	1230
QT	5.	580.	990.	1210.	1835.	1210.	0.	0.	0.	0.	1235
NC	0.150	0.150	0.050	0.0	0.0						1240
ET	0.	0.0	0.0	0.0	0.0	7.11	400.00	450.00	0.0	0.0	1245

X1	1.71	29.	404.	444.	615.	615.	615.	0.0	-3.40	0.	1250
GR	2861.2	0.	2855.2	67.	2853.5	78.	2851.0	87.	2849.9	115.	1255
GR	2846.0	190.	2847.8	217.	2844.3	237.	2847.4	285.	2847.1	321.	1260
GR	2844.3	337.	2844.3	357.	2845.8	378.	2843.6	404.	2840.1	415.	1265
GR	2838.5	420.	2837.6	430.	2837.6	434.	2838.0	437.	2842.5	444.	1270
GR	2843.8	489.	2844.0	586.	2850.5	687.	2850.4	711.	2850.2	717.	1275
GR	2851.5	730.	2854.0	800.	2857.5	912.	2861.2	982.	0.0	0.	1280
ET	0.	0.0	0.0	0.0	0.0	7.11	400.00	450.00	0.0	0.0	1285

X1	1.72	34.	404.	444.	40.	40.	40.	0.0	0.0	0.	1290
BT	6.0	414.0	2844.2	0.0	414.0	2844.8	0.0	422.0	2844.9	2842.8	1295
BT	444.0	2845.0	2843.5	447.0	2845.0	0.0	447.0	2844.4	0.0	0.0	1300
GR	2861.2	0.	2855.2	67.	2853.5	78.	2851.0	87.	2849.9	115.	1305
GR	2846.0	190.	2847.8	217.	2844.3	237.	2847.4	285.	2847.1	321.	1310
GR	2844.3	337.	2844.3	357.	2845.8	378.	2843.6	404.	2844.2	414.	1315
GR	2844.8	414.	2844.9	422.	2838.8	422.	2838.5	429.	2837.6	434.	1320
GR	2838.5	440.	2840.5	444.	2845.0	444.	2845.0	447.	2844.4	447.	1325
GR	2843.1	466.	2843.8	489.	2844.0	586.	2850.5	687.	2850.4	711.	1330
GR	2851.5	730.	2854.0	800.	2857.5	912.	2861.2	982.	0.0	0.	1335
ET	0.	0.0	0.0	0.0	0.0	7.11	400.00	450.00	0.0	0.0	1340

X1	1.72	0.	0.	0.	12.	12.	12.	0.0	0.0	0.	1345
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HD1

*PROF 1

CCHV= 0.100 CEHV= 0.500

*SECNO .040

2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

BROWN CREEK		100 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	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	XL OBL	XLCH	XL OBR	WSDL	WSDR	ENDST	VOL
0.04	1900.	507.	1315.	79.	0.96	0	250.	
2622.68	2622.48	272.	140.	55.	0.50	8	2622.40	
5.68	0.0	1.86	9.37	1.42	0.0	2623.63	2621.20	
0.013164	0.0	0.150	0.045	0.130	0.0	-0.00	41.14	
	2617.00	0.	0.	0.	181.	98.	320.18	0.

CCHV= 0.100 CEHV= 0.800

*SECNO .150

0.15	1850.	127.	1588.	99.	1.45	6	167.	
2629.89	2629.80	124.	153.	57.	0.49	8	2626.10	
7.39	0.0	1.32	10.40	1.72	7.31	2631.33	2627.30	
0.012068	0.050	0.150	0.050	0.150	0.39	-0.00	173.94	
	2622.50	580.	580.	580.	123.	44.	340.99	5.

*SECNO .270

BROWN CREEK		100 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	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	XL OBL	XLCH	XL OBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.27	1800.	180.	1522.	98.	1.37	2	160.	
2640.64	2640.64	108.	149.	53.	-0.07	8	2637.00	
7.24	0.0	1.68	10.20	1.86	6.60	2642.01	2638.20	
0.009725	0.047	0.100	0.045	0.120	0.01	-0.00	180.08	
	2633.40	610.	610.	610.	117.	43.	339.93	10.

CCHV= 0.100 CEHV= 0.500

*SECNO .300

GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.30	1790.	355.	1301.	134.	0.64	2	209.	
2642.37	0.0	238.	174.	88.	-0.73	0	2637.70	
8.27	0.0	1.49	7.47	1.52	0.92	2643.01	2638.90	
0.004244	0.047	0.100	0.045	0.120	0.07	-0.00	138.01	

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8.27 0.0 1.47 0.045 0.120 0.07 -0.00 138.01
 0.004244 0.047 0.100 0.045 0.120 0.07 -0.00 138.01

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2634.10 150. 150. 150. 159. 50. 347.17 11.

*SECNO .440

BROWN CREEK 100 YR FLOOD 02/28/81
 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 XLOSS 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

0.44 1730. 34. 1354. 342. 1.03 20 306.
 2655.19 2655.19 19. 147. 307. 0.40 12 2652.60
 6.89 0.0 1.82 9.21 1.12 3.53 2656.22 2650.90
 0.006545 0.045 0.100 0.040 0.130 0.20 -0.00 65.98
 2648.30 680. 680. 680. 24. 287. 371.48 19.

*SECNO .440

3301 HV CHANGED MORE THAN HVINS

0.44 1730. 111. 1167. 453. 0.46 2 318.
 2655.99 0.0 61. 178. 485. -0.58 0 2650.00
 7.69 0.0 1.81 6.55 0.93 0.17 2656.45 2652.50
 0.002900 0.045 0.100 0.040 0.130 0.06 -0.00 63.76
 2648.30 40. 40. 40. 35. 284. 382.23 19.

*SECNO .440

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 2656.40 MAX ELLC= 2654.60

0.44 1730. 0. 913. 817. 0.31 2 300.
 2656.16 0.0 0. 155. 489. -0.15 0 2656.70
 8.76 0.0 0.01 5.90 1.67 0.00 2656.47 2656.40
 0.009028 0.045 0.100 0.040 0.130 0.01 -46.92 62.85
 2647.40 1. 1. 1. 36. 286. 384.48 19.

*SECNO .440

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 2656.40 MAX ELLC= 2654.60

0.44 1730. 1. 820. 910. 0.23 2 316.
 2656.42 0.0 2. 155. 557. -0.08 0 2656.70
 9.02 0.0 0.38 5.30 1.63 0.17 2656.65 2656.40
 0.007474 0.044 0.100 0.040 0.130 0.01 -54.12 62.30
 2647.40 21. 21. 21. 36. 289. 387.79 20.

J01

*SECNO .440

0.44	1730.	98.	1116.	516.	0.36	2	334.	
2656.36	0.0	69.	189.	584.	0.13	0	2650.00	
8.06	0.0	1.42	5.92	0.88	0.00	2656.72	2652.50	
0.002776	0.044	0.130	0.045	0.150	0.06	-0.00	62.76	
	2648.30	1.	1.	1.	36.	289.	387.05	20.

*SECNO .440

BROWN CREEK 100 YR FLOOD 02/28/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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	XL OBL	XL CH	XL OBR	WSDL	WSDR	ENDST	VOL
0.44	1730.	39.	1092.	599.	0.37	2	325.	
2656.38	0.0	34.	178.	636.	0.02	0	2652.60	
8.08	0.0	1.15	6.14	0.94	0.03	2656.75	2650.90	
0.002853	0.044	0.130	0.045	0.150	0.01	-0.00	62.71	
	2648.30	10.	10.	10.	27.	297.	387.30	20.

*SECNO .600

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK 100 YR FLOOD 02/28/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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	XL OBL	XL CH	XL OBR	WSDL	WSDR	ENDST	VOL

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

0.60	1665.	11.	1329.	325.	1.56	20	125.	
2671.25	2671.25	7.	119.	171.	1.18	15	2668.80	
6.75	0.0	1.66	11.17	1.90	4.36	2672.81	2670.00	
0.014959	0.045	0.130	0.045	0.150	0.59	-0.00	138.14	
	2664.50	800.	800.	800.	17.	108.	263.63	30.

*SECNO .720

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

0.72	1610.	18.	1206.	386.	0.96	4	180.	
2679.18	0.0	18.	133.	234.	-0.60	0	2676.10	
7.38	0.0	1.02	9.03	1.65	7.28	2680.14	2677.30	
0.008387	0.045	0.130	0.045	0.150	0.06	-0.00	71.49	
	2671.80	660.	660.	660.	84.	114.	269.77	36.

*SECNO .730

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*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOOD			02/28/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	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= 2684.20 ELREA= 2682.50

0.73	1610.	0.	1302.	308.	1.56	20	119.		
2683.43	2683.48	0.	117.	164.	0.60	14	2681.10		
6.68	0.0	0.0	11.10	1.88	0.44	2685.04	2682.30		
0.015021	0.045	0.130	0.045	0.150	0.30	-0.00	144.00		
	2676.80	40.	40.	40.	12.	107.	262.97	36.	

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2682.57 NOT 2683.43
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	17.00	0.40	98.00	0.0
	ELCHU	ELCHD						
	2676.80	2676.80						

*SECNO .730

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2690.19	2686.14	0.0	746.	878.	98.	98.	2682.70	
ELTRD								
2683.00								
0.73	1610.	57.	1111.	442.	0.60	3	214.	
2684.87	0.0	70.	149.	307.	-0.95	0	2681.10	
8.07	0.0	0.82	7.44	1.44	0.44	2685.47	2682.30	
0.004889	0.045	0.130	0.045	0.150	0.0	-0.00	62.87	
	2676.80	26.	26.	26.	93.	121.	276.49	36.

*SECNO .730

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3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOOD			02/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		

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

0.73	1610.	10.	1218.	382.	1.29	20	126.	
2685.68	2685.68	6.	117.	171.	0.68	14	2683.30	
6.68	0.0	1.52	10.39	2.24	0.08	2686.96	2684.50	
0.013183	0.045	0.130	0.045	0.120	0.34	-0.00	138.35	
	2679.00	10.	10.	10.	17.	109.	264.02	36.

*SECNO .800

*** GR CARDS REPEATED

BROWN CREEK		100 YR FLOOD			02/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

0.80	1580.	9.	1203.	368.	1.29	9	125.	
2693.42	2693.42	6.	116.	166.	0.00	6	2691.10	
6.62	0.0	1.50	10.37	2.22	4.24	2694.71	2692.30	
0.013305	0.045	0.130	0.045	0.120	0.00	-0.00	138.50	
	2686.80	320.	320.	320.	17.	108.	263.53	38.

*SECNO .930

BROWN CREEK		100 YR FLOOD			02/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

0.93	1525.	0.	1510.	15.	1.76	15	46.	
2708.01	2708.01	0.	141.	7.	0.47	15	2710.60	
5.61	0.0	0.0	10.70	2.27	9.90	2709.77	2706.50	
0.020039	0.045	0.130	0.045	0.100	0.24	-0.00	54.93	
	2702.40	615.	615.	615.	17.	28.	100.49	41.

*SECNO .930

BROWN CREEK		100 YR FLOOD			02/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	

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SLOPE	WTN ELMIN	XNL XLOBL	XNCH XLCH	XNR XLOBR	OLOSS WSDL	CORAR WSDR	SSTA ENDST	VOL
3685 2D TRIALS ATTEMPTED WSEL, CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.93	1525.	216.	1141.	168.	2.14	20	49.	
2708.86	2708.86	59.	85.	44.	0.38	8	2703.60	
6.46	0.0	3.65	13.38	3.85	0.74	2711.00	2704.40	
0.016957	0.045	0.130	0.045	0.100	0.19	-0.00	53.31	
	2702.40	40.	40.	40.	24.	25.	102.39	42.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2708.10 NOT 2708.86
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFG	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.10	88.00	0.0
	ELCHU	ELCHD						
	2701.70	2701.70						

*SECNO .930

GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2716.32	2711.36	0.0	627.	898.	88.	88.	2707.60	
ELTRD 2708.00								
0.93	1525.	231.	1075.	218.	1.14	3	55.	
2710.31	0.0	85.	107.	71.	-0.99	0	2703.60	
7.91	0.0	2.71	10.05	3.07	0.45	2711.45	2704.40	
D.007061	0.045	0.130	0.045	0.100	0.0	-0.00	50.55	
	2702.40	12.	12.	12.	27.	28.	105.64	42.

*SECNO .930

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOOD			02/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRISWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLQB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	VOL	
0.93	1525.	0.	1466.	59.	0.44	3	61.	
2711.13	0.0	1.	272.	38.	-0.71	0	2710.60	
8.73	0.0	0.23	5.39	1.56	0.04	2711.56	2706.50	

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0.002522	0.045	0.130	0.045	0.100	0.07	-0.00	46.62	
	2702.40	10.	10.	10.	25.	35.	107.45	42.
*SECNO .970	0.97	1510.	0.	1510.	0.	0.85	2	33.
	2711.63	0.0	0.	204.	0.	0.42	0	2714.00
	7.63	0.0	0.0	7.41	0.01	0.71	2712.48	2711.60
0.005809	0.045	0.130	0.045	0.100	0.21	-0.00	116.00	
	2704.00	195.	195.	195.	16.	17.	148.79	43.

*SECNO .970

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2714.60 ELREA= 2713.30

0.97	1510.	0.	1510.	0.	2.38	3	18.	
2711.03	0.0	0.	122.	0.	1.52	0	2704.00	
7.03	0.0	0.0	12.37	0.0	0.16	2713.40	2704.40	
0.010942	0.045	0.130	0.045	0.100	0.76	-0.03	120.00	
	2704.00	20.	20.	20.	9.	9.	138.00	43.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	18.00	0.10	170.00	0.0
	ELCHU	ELCHD						
	2704.00	2704.00						

*SECNO .970

*** GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.= 2710.96 BRIDGE VELOCITY= 12.12

CALCULATED CHANNEL AREA= 125.

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
0.0	2713.44	0.13	0.	1510.	170.	170.	2713.50

ELTRD
2713.80

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2715.10 ELREA= 2713.80

0.97	1510.	0.	1510.	0.	2.29	0	18.	
2711.16	0.0	0.	124.	0.	-0.09	0	2704.00	
7.16	0.0	0.0	12.13	0.0	0.04	2713.44	2704.40	
0.010262	0.045	0.130	0.045	0.100	0.0	0.0	120.00	
	2704.00	12.	12.	12.	9.	9.	138.00	43.

*SECNO .970

BROWN CREEK

100 YR FLOOD

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MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

0.97	1510.	0.	1498.	12.	1.88	20	54.	
2712.48	2712.48	0.	136.	10.	-0.40	14	2714.00	
4.88	0.0	0.0	11.06	1.22	0.07	2714.37	2711.60	
0.019892	0.045	0.130	0.045	0.100	0.04	-0.00	116.00	
	2707.60	5.	5.	5.	16.	38.	169.81	43.

*SECNO 1.09D

BROWN CREEK		100 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

1.09	1455.	20.	1435.	0.	1.86	5	48.	
2728.52	2728.52	13.	130.	0.	-0.02	11	2727.00	
6.92	0.0	1.55	11.03	0.0	13.58	2730.39	2729.90	
0.022724	0.045	0.120	0.050	0.120	0.00	-0.00	425.48	
	2721.60	640.	640.	640.	34.	14.	473.24	45.

*SECNO 1.12D

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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=		2734.20 ELREA=		2734.00				
1.12	1455.	0.	1455.	0.	2.74	2	20.	
2731.68	2731.68	0.	110.	0.	0.87	5	2728.50	
7.08	0.0	0.0	13.28	0.0	2.48	2734.42	2727.40	
0.014224	0.045	0.120	0.040	0.120	0.44	-0.00	445.00	
	2724.60	140.	140.	140.	10.	10.	465.00	46.

SPECIAL BRIDGE

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

SPEC
 SB
 E
 27
 *SEC

 CLAS
 3421
 2
 347
 345
 0
 *S
 36
 36
 37
 34
 T
 *S

002

1.25	1.60	3.00	0.0	25.00	0.30	200.00	0.0
ELCHU 2724.60	ELCHD 2724.60						

*SECNO 1.120

*** GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.= 2731.65 BRIDGE VELOCITY= 8.36

CALCULATED CHANNEL AREA= 174.							
EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2733.00	2734.46	0.37	0.	1455.	200.	200.	2732.70

ELTRD
2734.50

3495 OVBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2734.70 ELREA= 2734.50

1.12	1455.	0.	1455.	0.	2.40	0	20.
2732.05	0.0	0.	117.	0.	-0.34	0	2728.50
7.45	0.0	0.0	12.44	0.0	0.03	2734.46	2727.40
0.011438	0.045	0.120	0.040	0.120	0.0	-0.00	445.00
	2724.60	33.	33.	33.	10.	10.	465.00
							46.

*SECNO 1.120

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

1.12	1455.	196.	1250.	10.	0.66	14	228.
2734.03	2732.76	198.	177.	20.	-1.74	11	2730.00
7.43	0.0	0.99	7.04	0.47	0.07	2734.69	2732.90
0.004212	0.045	0.130	0.040	0.150	0.17	-0.00	284.29
	2726.60	10.	10.	10.	175.	58.	516.95
							46.

*SECNO 1.300

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK			100 YR FLOOD		02/28/81		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRWS	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

002

D02

3720 CRITICAL DEPTH ASSUMED

1.30	1375.	62.	1313.	0.	1.55	20	93.	
2757.19	2757.19	46.	129.	0.	0.88	14	2754.60	
5.99	0.0	1.35	10.21	0.0	7.10	2758.74	2757.50	
0.013134	0.044	0.130	0.040	0.150	0.44	-0.00	290.69	
	2751.20	1050.	1050.	1050.	168.	16.	475.16	53.

*SECNO 1.460

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

1.46	1315.	323.	960.	31.	0.86	20	206.	
2790.63	2790.63	182.	111.	28.	-0.68	16	2790.70	
4.23	0.0	1.77	8.67	1.14	11.81	2791.50	2790.00	
0.018557	0.045	0.150	0.050	0.130	0.07	-0.00	281.46	
	2786.40	765.	765.	765.	147.	61.	489.10	57.

*SECNO 1.480

GR CARDS REPEATED

3265 DIVIDED FLOW

BROWN CREEK		100 YR FLOOD			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

1.48	1315.	322.	962.	31.	0.87	20	206.	
2797.73	2797.73	181.	111.	27.	0.01	5	2797.80	
4.23	0.0	1.78	8.70	1.14	1.86	2798.60	2797.10	
0.018725	0.045	0.150	0.050	0.130	0.00	-0.00	281.48	
	2793.50	100.	100.	100.	147.	61.	489.08	58.

*SECNO 1.600

GR CARDS REPEATED

3265 DIVIDED FLOW

E02

E02

BROWN CREEK			100 YR FLOOD		02/28/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISWS	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	XL OBL	XLCH	XL OBR	WSDL	WSDR	ENDST	VOL	

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.60	1260.	299.	936.	25.	0.88	10	203.		
2822.54	2822.54	171.	108.	24.	0.01	5	2822.70		
4.15	0.0	1.75	8.67	1.05	12.12	2823.42	2822.00		
0.019152	0.045	0.150	0.050	0.130	0.00	-0.00	281.67		
	2818.40	640.	640.	640.	147.	60.	488.95	62.	

*SECNO 1.710

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK			100 YR FLOOD		02/28/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISWS	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	XL OBL	XLCH	XL OBR	WSDL	WSDR	ENDST	VOL	

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

1.71	1210.	0.	1210.	0.	1.62	20	36.		
2839.08	2839.08	0.	118.	0.	0.74	8	2840.20		
4.88	0.0	0.0	10.22	0.0	13.71	2840.70	2839.10		
0.026441	0.046	0.150	0.050	0.150	0.37	-0.00	407.52		
	2834.20	615.	615.	615.	16.	20.	443.97	65.	

*SECNO 1.720

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK			100 YR FLOOD		02/28/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISWS	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	XL OBL	XLCH	XL OBR	WSDL	WSDR	ENDST	VOL	

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2844.20 MAX ELIC= 2843.50

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

1.72	1210.	57.	759.	394.	0.41	20	270.		
2845.10	2845.10	43.	120.	190.	-1.21	8	2843.60		

FD2

3470 EI
1.
2790
4
0.025

*SECNO

*** GR
BR
MIL
ELE
DEF
SLC

3685
3693
3720

3470

279

0.02

*SECT

*** C
E
MJ
EL
DT
SI

7185
3720

3470

28

0.0

*SEC

M
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S

F02

7.50	0.0	1.34	6.34	2.07	1.16	2845.52	2845.00
0.032196	0.046	0.150	0.050	0.150	0.12	-39.59	232.42
	2837.60	40.	40.	40.	192.	179.	603.13

*SECNO 1.720

*** GR CARDS REPEATED

3265 DIVIDED FLOW

BROWN CREEK		100 YR FLOOD			02/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC		
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

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2844.20 MAX ELLC= 2843.50

1.72	1210.	94.	658.	457.	0.21	2	302.
2845.58	0.0	83.	139.	268.	-0.21	0	2843.60
7.98	0.0	1.14	4.74	1.71	0.25	2845.79	2845.00
0.014770	0.046	0.150	0.050	0.150	0.02	-39.59	229.68
	2837.60	12.	12.	12.	194.	187.	610.57

*SECNO 1.720

3265 DIVIDED FLOW

1.72	1210.	58.	803.	348.	0.23	3	306.
2845.63	0.0	88.	172.	301.	0.02	0	2843.60
5.33	0.0	0.67	4.68	1.16	0.07	2845.87	2842.50
0.003639	0.046	0.130	0.050	0.120	0.01	-0.00	229.38
	2840.30	10.	10.	10.	195.	187.	611.38

*SECNO 1.860

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOOD			02/28/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC		
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

1.86	1155.	145.	993.	17.	1.01	20	172.
2875.73	2875.73	109.	115.	19.	0.77	15	2875.00
4.83	0.0	1.34	8.67	0.88	4.68	2876.73	2875.30
0.015888	0.046	0.150	0.050	0.130	0.39	-0.00	80.25
	2870.90	715.	715.	715.	115.	57.	252.01

7185
3720

3470

283

0.02

*SECI

3301

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D
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3370

3685

3693

3720

3470

21

0.1

*SE

326

337

347

0

602

THIS RUN EXECUTED 02/28/81 11:54:20

 HEC2 RELEASE DATED NOV 76 UPDATED JULY 1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53,54

T1	YANCEY CO NC FEMA STUDY	1445
T2	100 YR FLOODWAY	1450
T3	BROWN CREEK	1455

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ	
	0.	6.	0.	0.	0.01334	0.	0.0	0.	0.0	0.0	1460

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	15.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	1465

*SECN

3301

3470

284

0.00

*SECN

3301

E
M
E
D
S

3685

3693

3720

3470

28

0.0

H02

*PROF 2

CCHV= 0.100 CEHV= 0.500

*SECNO .040

2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

BROWN CREEK			100 YR FLOODWAY		02/28/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	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	245.0	TYPE=	1	TARGET=	40.000			
0.04	1900.	1.	1869.	31.	1.79	0	40.		
2623.66	0.0	1.	173.	16.	0.50	0	2622.40		
6.66	2622.68	0.78	10.82	1.94	0.0	2625.44	2621.20		
0.013327	0.0	0.150	0.045	0.130	0.0	-0.00	205.00		
	2617.00	0.	0.	0.	18.	22.	245.00	0.	

CCHV= 0.100 CEHV= 0.800

*SECNO .150

3470 ENCROACHMENT STATIONS=	280.0	310.0	TYPE=	1	TARGET=	30.000			
0.15	1850.	31.	1816.	3.	1.71	2	30.		
2630.67	0.0	18.	172.	3.	-0.08	0	2626.10		
8.17	2629.89	1.76	10.59	0.86	6.92	2632.38	2627.30		
0.010728	0.050	0.150	0.050	0.150	0.01	-0.00	280.00		
	2622.50	580.	580.	580.	17.	13.	310.00	3.	

*SECNO .270

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK			100 YR FLOODWAY		02/28/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	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=	280.0	310.0	TYPE=	1	TARGET=	30.000			
0.27	1800.	27.	1770.	2.	2.68	3	30.		
2639.99	2639.99	10.	134.	2.	0.97	15	2637.00		
6.59	2640.64	2.76	13.25	1.27	8.49	2642.67	2638.20		
0.018971	0.047	0.100	0.045	0.120	0.78	-0.00	280.00		
	2633.40	610.	610.	610.	17.	13.	310.00	5.	

CCHV= 0.100 CEHV= 0.500

*SECNO .300

GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=		280.0	310.0	TYPE=	1	TARGET=	30.000	
0.30	1790.	44.	1742.	3.	1.30	2	30.	
2642.97	0.0	21.	188.	4.	-1.39	0	2637.70	
8.87	2642.37	2.08	9.25	0.82	1.45	2644.27	2638.90	
0.005856	0.047	0.100	0.045	0.120	0.14	-0.00	280.00	
	2634.10	150.	150.	150.	17.	13.	310.00	6.

*SECNO .440

BROWN CREEK

100 YR FLOODWAY 02/28/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	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=		75.0	175.0	TYPE=	1	TARGET=	100.000	
0.44	1730.	7.	1563.	160.	1.78	20	100.	
2654.87	2654.87	4.	139.	97.	0.49	19	2652.60	
6.57	2655.19	1.59	11.25	1.66	5.21	2656.66	2650.90	
0.010556	0.045	0.100	0.040	0.130	0.24	-0.00	75.00	
	2648.30	680.	680.	680.	15.	85.	175.00	9.

*SECNO .440

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=		75.0	175.0	TYPE=	1	TARGET=	100.000	
0.44	1730.	97.	1450.	184.	0.82	2	100.	
2656.18	0.0	41.	183.	145.	-0.96	0	2650.00	
7.88	2655.99	2.36	7.91	1.27	0.25	2657.00	2652.50	
0.004084	0.045	0.100	0.040	0.130	0.10	-0.00	75.00	
	2648.30	40.	40.	40.	24.	76.	175.00	9.

*SECNO .440

3700. BRIDGE STENCL= 75.00 STENCR= 175.00

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 2656.40 MAX ELIC= 2654.60

3470 ENCROACHMENT STATIONS=		75.0	175.0	TYPE=	1	TARGET=	100.000	
0.44	1730.	0.	1501.	229.	1.28	2	85.	
2655.96	0.0	0.	155.	91.	0.46	0	2656.70	
8.56	2656.16	0.0	9.70	2.52	0.01	2657.24	2656.40	
0.024404	0.045	0.100	0.040	0.130	0.23	-40.82	84.00	
	2647.40	1.	1.	1.	15.	76.	175.00	9.

J02

*SECNO .440

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 2656.40 MAX ELLC= 2654.60

3470 ENCROACHMENT STATIONS=			75.0	175.0	TYPE=	1	TARGET=	100.000
0.44	1730.	6.	1247.	476.	0.63	4	100.	
2657.12	0.0	5.	171.	161.	-0.65	0	2656.70	
9.72	2656.42	1.30	7.29	2.96	0.45	2657.75	2656.40	
0.018967	0.044	0.100	0.040	0.130	0.06	-58.01	75.00	
	2647.40	21.	21.	21.	24.	76.	175.00	9.

*SECNC .440

3470 ENCROACHMENT STATIONS=			75.0	175.0	TYPE=	1	TARGET=	100.000
0.44	1730.	87.	1398.	245.	0.54	2	100.	
2657.23	0.0	51.	214.	211.	-0.09	0	2650.00	
8.93	2656.36	1.71	6.54	1.17	0.01	2657.77	2652.50	
0.002869	0.044	0.130	0.045	0.150	0.01	-0.00	75.00	
	2648.30	1.	1.	1.	24.	76.	175.00	10.

*SECNO .440

BROWN CREEK

100 YR FLOODWAY 02/28/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRISWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VL OB	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=			75.0	175.0	TYPE=	1	TARGET=	100.000
0.44	1730.	7.	1375.	348.	0.59	2	100.	
2657.23	0.0	9.	200.	266.	0.05	0	2652.60	
8.93	2656.38	0.79	6.87	1.31	0.03	2657.82	2650.90	
0.003055	0.044	0.130	0.045	0.150	0.02	-0.00	75.00	
	2648.30	10.	10.	10.	15.	85.	175.00	10.

*SECNO .600

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK

100 YR FLOODWAY 02/28/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRISWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VL OB	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

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SU
CAU
CAU
CAU
PR
CAL
20
CAL
CAL
PI
CA
2
CA
P
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CA
P
CA
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CA
F
CA
2
CA

K02

L02

EGPRS 2690.99	EGLWC 2686.33	H3 0.31	QWEIR 567.	QPR 1045.	BAREA 98.	TAREA 98.	ELLC 2682.70
ELTRD 2683.00							

3470 ENCROACHMENT STATIONS=	140.0	200.0	TYPE=	1	TARGET=	60.000
0.73	1610.	21.	1395.	194.	0.79	3
2686.32	0.0	17.	183.	129.	-0.96	0
9.52	2684.87	1.22	7.64	1.50	1.08	2687.11
0.003952	0.045	0.130	0.045	0.150	0.0	-0.00
	2676.80	26.	26.	26.	16.	44.
						200.00
						19.

*SECNO .730

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOODWAY			02/28/81		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRWS	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=	140.0	200.0	TYPE=	1	TARGET=	60.000
0.73	1610.	14.	1497.	99.	1.99	20
2686.12	2686.12	8.	128.	50.	1.20	19
7.12	2685.68	1.77	11.74	1.97	0.07	2688.12
0.015058	0.045	0.130	0.045	0.120	0.60	-0.00
	2679.00	10.	10.	10.	16.	44.
						200.00
						19.

*SECNO .800

. GR CARDS REPEATED

BROWN CREEK		100 YR FLOODWAY			02/28/81		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRWS	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=	140.0	200.0	TYPE=	1	TARGET=	60.000
0.80	1580.	13.	1474.	93.	1.98	4
2693.86	2693.86	7.	126.	48.	-0.01	5
7.06	2693.42	1.76	11.68	1.93	4.83	2695.84
0.015128	0.045	0.130	0.045	0.120	0.00	-0.00
	2686.80	320.	320.	320.	16.	44.
						200.00
						21.

20
CAUT
CAUT
PRO
CAUT
20
CAUT
CAUT
PR
CAUT
20
CAL
CAL
PF
CAL
21
CAL
CAL
PI
CA
2
CA
CA
P
CA
2
CA
CA
F
CA
2
CA
CA
P
CA
2

MD2

*SECNO .930

BROWN CREEK		100 YR FLOODWAY			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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=		50.0	95.0	TYPE=	1	TARGET=	45.000		
0.93	1525.	0.	1523.	2.	1.83	16	40.		
2707.98	2707.98	0.	140.	1.	-0.15	15	2710.60		
5.58	2708.01	0.0	10.87	1.53	10.82	2709.82	2706.50		
0.020845	0.045	0.130	0.045	0.100	0.17	-0.00	54.98		
	2702.40	615.	615.	615.	17.	23.	95.00		23.

*SECNO .930

BROWN CREEK		100 YR FLOODWAY			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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 2D TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=		50.0	95.0	TYPE=	1	TARGET=	45.000		
0.93	1525.	220.	1167.	138.	2.31	20	42.		
2708.83	2708.83	59.	85.	33.	0.48	8	2703.60		
6.43	2708.86	3.76	13.77	4.23	0.78	2711.14	2704.40		
0.018097	0.045	0.130	0.045	0.100	0.24	-0.00	53.37		
	2702.40	40.	40.	40.	24.	17.	95.00		23.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2708.10 NOT 2708.83
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFG	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.10	88.00	0.0
	ELCHU	ELCHD						
	2701.70	2701.70						

*SECNO .930

3700. BRIDGE STENCL= 50.00 STENCR= 95.00

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

FLOOD
PROFI

STA

A03

EGPRS 2716.29 EGLWC 2711.53 H3 0.0 QWEIR 615. QPR 912. BAREA 88. TAREA 88. ELLC 2707.60
 ELTRD 2708.00

3470 ENCROACHMENT STATIONS= 50.0 95.0 TYPE= 1 TARGET= 45,000
 0.93 1525. 238. 1125. 162. 1.38 4 44.
 2710.11 0.0 81. 104. 46. -0.93 0 2703.60
 7.71 2710.31 2.92 10.82 3.58 0.36 2711.49 2704.40
 0.008502 0.045 0.130 0.045 0.100 0.0 -0.00 50.93
 2702.40 12. 12. 12. 27. 17. 95.00 23.

*SECNO .930
 3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOODWAY				02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	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= 50.0 95.0 TYPE= 1 TARGET= 45,000
 0.93 1525. 0. 1522. 3. 0.48 3 45.
 2711.15 0.0 0. 273. 5. -0.90 0 2710.60
 8.75 2711.13 0.0 5.58 0.68 0.04 2711.63 2706.50
 0.002732 0.045 0.130 0.045 0.100 0.09 -0.00 50.00
 2702.40 10. 10. 10. 22. 23. 95.00 23.

*SECNO .970
 3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 115.0 150.0 TYPE= 1 TARGET= 35,000
 0.97 1510. 0. 1510. 0. 0.83 2 34.
 2711.71 0.0 0. 206. 0. 0.35 0 2714.00
 7.71 2711.63 0.0 7.32 0.19 0.74 2712.54 2711.60
 0.005593 0.045 0.130 0.045 0.100 0.17 -0.00 116.00
 2704.00 195. 195. 195. 16. 18. 150.00 24.

*SECNO .970
 3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 115.0 150.0 TYPE= 1 TARGET= 35,000
 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELREA= 2714.60 ELREA= 2713.30
 0.97 1510. 0. 1510. 0. 2.31 3 18.
 2711.12 0.0 0. 124. 0. 1.48 0 2704.00
 7.12 2711.02 0.0 12.20 0.0 0.15 2713.43 2704.40
 0.010464 0.045 0.130 0.045 0.100 0.74 -0.00 120.00
 2704.00 20. 20. 20. 9. 9. 138.00 25.

B03

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	18.00	0.10	170.00	0.0
	ELCHU	ELCHD						
	2704.00	2704.00						

*SECNO .970
 3700. BRIDGE STENCL= 115.00 STENCR= 150.00

*** GR CARDS REPEATED
 CLASS A LOW FLOW

3420 BRIDGE W.S.= 2711.05 BRIDGE VELOCITY= 11.96

CALCULATED CHANNEL AREA=		126.
EGPRS	EGLWC	H3
0.0	2713.47	0.13
QWEIR	QPR	BAREA
0.	1510.	170.
TAREA	ELLC	
170.	2713.50	

ELTRD
 2713.80

3470 ENCROACHMENT STATIONS= 115.0 150.0 TYPE= 1 TARGET= 35.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2715.10 ELREA= 2713.80

0.97	1510.	0.	1510.	0.	2.23	0	18.
2711.24	0.0	0.	126.	0.	-0.08	0	2704.00
7.24	2711.76	0.0	11.99	0.0	0.04	2713.47	2704.40
0.009855	0.045	0.130	0.045	0.100	0.0	0.0	120.00
	2704.00	12.	12.	12.	9.	9.	138.00
							25.

*SECNO .970

BROWN CREEK			100 YR FLOODWAY		02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISWS	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= 115.0 150.0 TYPE= 1 TARGET= 35.000

0.97	1510.	0.	1508.	2.	2.05	20	34.
2712.35	2712.35	0.	131.	1.	-0.18	14	2714.00
4.75	2712.48	0.0	11.49	1.46	0.07	2714.40	2711.60
0.022309	0.045	0.130	0.045	0.100	0.02	-0.00	116.00
	2707.60	5.	5.	5.	16.	18.	150.00
							25.

*SECNO 1.090

BROWN CREEK			100 YR FLOODWAY		02/28/81		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRISWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV

C03

C03

DEPTH	WSELK	VL08	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XL0BL	XLCH	XLOBR	WSDL	WSDR	ENDST

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 440.0 480.0 TYPE= 1 TARGET= 40.000

1.09	1455.	4.	1451.	0.	2.06	5	33.
2728.38	2728.38	3.	126.	0.	0.01	14	2727.00
6.78	2728.52	1.72	11.54	0.0	15.30	2730.44	2729.90
0.025735	0.045	0.120	0.050	0.120	0.01	-0.00	440.00
	2721.60	640.	640.	640.	19.	14.	472.96

*SECNO 1.120

3301 HV CHANGED MORE THAN HVINS

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VL08	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XL0BL	XLCH	XLOBR	WSDL	WSDR	ENDST

BROWN CREEK 100 YR FLOODWAY 02/28/81

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 440.0 480.0 TYPE= 1 TARGET= 40.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELREA= 2734.20 ELREA= 2734.00

1.12	1455.	0.	1455.	0.	2.78	3	20.
2731.64	2731.64	0.	109.	0.	0.71	8	2728.50
7.04	2731.68	0.0	13.37	0.0	2.66	2734.42	2727.40
0.014567	0.045	0.120	0.040	0.120	0.36	-0.00	445.00
	2724.60	140.	140.	140.	10.	10.	465.00

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	25.00	0.30	200.00	0.0
	ELCHU	ELCHD						
	2724.60	2724.60						

*SECNO 1.120

3700. BRIDGE STENCL= 440.00 STENCR= 480.00

*GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.= 2731.61 BRIDGE VELOCITY= 8.41

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2732.96	2734.45	0.38	0.	1455.	200.	200.	2732.70

ELTRD

D03

2721.60

D03

2734.50

3470 ENCROACHMENT STATIONS= 440.0 480.0 TYPE= 1 TARGET= 40.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELREA= 2734.70 ELREA= 2734.50

1.12	1455.	0.	1455.	0.	2.42	0	20.
2732.03	0.0	0.	116.	0.	-0.35	0	2728.50
7.43	2732.05	0.0	12.49	0.0	0.03	2734.45	2727.40
0.011616	0.045	0.120	0.040	0.120	0.0	-0.00	445.00
	2724.60	33.	33.	33.	10.	10.	465.00

*SECNO 1.120

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 440.0 480.0 TYPE= 1 TARGET= 40.000

1.12	1455.	8.	1446.	0.	1.44	9	40.
2733.21	2732.58	6.	150.	1.	-0.98	15	2730.00
6.61	2734.03	1.32	9.66	0.38	0.11	2734.66	2732.90
0.009944	0.045	0.130	0.040	0.150	0.10	-0.00	440.00
	2726.60	10.	10.	10.	19.	21.	480.00

*SECNO 1.300

*** GR CARDS REPEATED

BROWN CREEK		100 YR FLOODWAY				02/28/81			
Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID			
CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV			
WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT			
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= 440.0 480.0 TYPE= 1 TARGET= 40.000

1.30	1375.	7.	1368.	0.	1.89	14	35.
2757.04	2757.04	5.	124.	0.	0.45	11	2754.60
5.84	2757.19	1.54	11.07	0.0	12.98	2758.93	2757.50
0.016015	0.044	0.130	0.040	0.150	0.23	-0.00	440.00
	2751.20	1050.	1050.	1050.	19.	16.	474.74

*SECNO 1.460

BROWN CREEK		100 YR FLOODWAY				02/28/81			
Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID			
CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV			
WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT			
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

E03

TARGET= 40.000

E03

3470 ENCROACHMENT STATIONS=		410.0	450.0	TYPE=	1	TARGET=	40.000	
1.46	1315.	0.	1307.	7.	1.79	20	40.	
2790.95	2790.95	1.	121.	5.	-0.10	15	2790.70	
4.55	2790.63	0.63	10.77	1.57	15.15	2792.74	2790.00	
0.025420	0.045	0.150	0.050	0.130	0.01	-0.00	410.00	
	2786.40	765.	765.	765.	19.	21.	450.00	35.

*SECNO 1.480

*** GR CARDS REPEATED
BROWN CREEK

		100 YR FLOODWAY			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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 2D TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=		410.0	450.0	TYPE=	1	TARGET=	40.000	
1.48	1315.	0.	1307.	8.	1.78	20	40.	
2798.06	2798.06	1.	122.	5.	-0.01	5	2797.80	
4.56	2797.73	0.63	10.75	1.57	2.54	2799.84	2797.10	
0.025289	0.045	0.150	0.050	0.130	0.00	-0.00	410.00	
	2793.50	100.	100.	100.	19.	21.	450.00	35.

*SECNO 1.600

*** GR CARDS REPEATED
BROWN CREEK

		100 YR FLOODWAY			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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=		410.0	450.0	TYPE=	1	TARGET=	40.000	
1.60	1260.	0.	1253.	6.	1.73	10	40.	
2822.86	2822.86	0.	118.	4.	-0.05	8	2822.70	
4.46	2822.54	0.51	10.58	1.49	16.21	2824.59	2822.00	
0.025377	0.045	0.150	0.050	0.130	0.01	-0.00	410.00	
	2818.40	640.	640.	640.	19.	21.	450.00	35.

*SECNO 1.710

*** GR CARDS REPEATED
BROWN CREEK

		100 YR FLOODWAY			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

F03

F03

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=		400.0	450.0	TYPE=	1	TARGET=	50.000	
1.71	1210.	0.	1210.	0.	1.65	4	36	
2839.06	2839.06	0.	118.	0.	-0.08	8	2840.20	
4.86	2839.08	0.0	10.30	0.0	16.07	2840.70	2839.10	
0.028956	0.048	0.150	0.050	0.150	0.01	-0.00	407.59	
	2834.20	615.	615.	615.	16.	20.	443.94	36.

*SECNO 1.720
3700. BRIDGE STENCL= 400.00 STENCR= 450.00

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOODWAY			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2844.20 MAX ELLC= 2843.50

3685 2D TRIALS ATTEMPTED WSEL, CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=		400.0	450.0	TYPE=	1	TARGET=	50.000	
1.72	1210.	0.	1210.	0.	2.50	20	22.	
2842.84	2842.84	0.	95.	0.	0.86	6	2843.60	
5.24	2845.10	0.0	12.69	0.0	1.29	2845.34	2845.00	
0.039301	0.048	0.150	0.050	0.150	0.43	-0.02	422.00	
	2837.60	40.	40.	40.	2.	20.	444.00	37.

*SECNO 1.720

*** GR CARDS REPEATED

3265 DIVIDED FLOW

BROWN CREEK		100 YR FLOODWAY			02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	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

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2844.20 MAX ELLC= 2843.50

3470 ENCROACHMENT STATIONS=		400.0	450.0	TYPE=	1	TARGET=	50.000	
1.72	1210.	0.	1210.	0.	2.15	6	29.	
2843.83	2842.84	0.	103.	0.	-0.35	6	2843.60	
6.23	2845.58	0.64	11.78	0.0	0.61	2845.99	2845.00	
0.069479	0.048	0.150	0.050	0.150	0.03	-15.26	401.14	

G03

20 444.00 37.

G03

2837.60 12. 12. 12. 23. 20. 444.00 37.

*SECNO 1.720

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	400.0	450.0	TYPE=	1	TARGET=	50.000	
1.72	1210.	9.	1169.	32.	0.71	4	50.
2845.60	0.0	7.	170.	18.	-1.44	0	2843.60
5.30	2845.63	1.21	6.89	1.77	0.18	2846.31	2842.50
0.007987	0.046	0.130	0.050	0.120	0.14	-0.00	400.00
	2840.30	10.	10.	10.	24.	26.	450.00

*SECNO 1.860

3301 HV CHANGED MORE THAN HVINS

BROWN CREEK		100 YR FLOODWAY		02/28/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRWS	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=	180.0	210.0	TYPE=	1	TARGET=	30.000	
1.86	1155.	0.	1155.	0.	1.81	20	30.
2875.47	2875.47	0.	107.	0.	1.10	15	2875.00
4.57	2875.73	0.0	10.81	0.0	9.55	2877.28	100000.00
0.027818	0.046	0.150	0.050	0.130	0.55	-0.00	180.00
	2870.90	715.	715.	715.	15.	15.	210.00

H03

THIS RUN EXECUTED 02/28/81 11:54:26

 HEC2 RELEASE DATED NOV 76 UPDATED JULY 1979
 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/

BROWN CREEK

SUMMARY PRINTOUT TABLE 110

SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
0.040	2622.68	0.0	2623.63	250.	0.	0.	0.	206.	239.	507.	1315.	79.
0.040	2623.66	0.98	2625.44	40.	40.	205.	245.	206.	239.	1.	1869.	31.
0.150	2629.89	0.0	2631.33	167.	0.	0.	0.	285.	309.	163.	1588.	99.
0.150	2630.67	0.78	2632.38	30.	30.	280.	310.	285.	309.	31.	1816.	3.
* 0.270	2640.64	0.0	2642.01	160.	0.	0.	0.	285.	309.	180.	1522.	98.
* 0.270	2639.99	-0.65	2642.67	30.	30.	280.	310.	285.	309.	27.	1770.	2.
0.300	2642.37	0.0	2643.01	209.	0.	0.	0.	285.	309.	355.	1301.	134.
0.300	2642.97	0.60	2644.27	30.	30.	280.	310.	285.	309.	44.	1742.	3.
* 0.440	2655.19	0.0	2656.22	306.	0.	0.	0.	77.	103.	34.	1354.	342.
* 0.440	2654.87	-0.31	2656.66	100.	100.	75.	175.	77.	103.	7.	1563.	160.
0.440	2655.99	0.0	2656.45	318.	0.	0.	0.	84.	113.	111.	1167.	453.
0.440	2656.18	0.19	2657.00	100.	100.	75.	175.	84.	113.	97.	1450.	184.
0.440	2656.16	0.0	2656.47	300.	0.	0.	0.	84.	113.	0.	913.	817.
0.440	2655.96	-0.21	2657.24	85.	100.	75.	175.	84.	113.	0.	1501.	229.
0.440	2656.42	0.0	2656.65	316.	0.	0.	0.	84.	113.	1.	820.	910.
0.440	2657.12	0.70	2657.75	100.	100.	75.	175.	84.	113.	6.	1247.	476.
0.440	2656.36	0.0	2656.72	324.	0.	0.	0.	84.	113.	98.	1116.	516.
0.440	2657.23	0.87	2657.77	100.	100.	75.	175.	84.	113.	87.	1398.	245.
0.440	2656.38	0.0	2656.75	325.	0.	0.	0.	77.	103.	39.	1092.	599.
0.440	2657.23	0.85	2657.82	100.	100.	75.	175.	77.	103.	7.	1375.	348.
* 0.600	2671.25	0.0	2672.81	125.	0.	0.	0.	144.	167.	11.	1329.	325.
* 0.600	2671.70	0.45	2673.83	60.	60.	140.	200.	144.	167.	15.	1562.	88.
0.720	2679.18	0.0	2680.14	180.	0.	0.	0.	144.	167.	18.	1206.	386.
0.720	2679.92	0.73	2681.24	60.	60.	140.	200.	144.	167.	18.	1457.	135.
* 0.730	2683.48	0.0	2685.04	119.	0.	0.	0.	144.	167.	0.	1302.	308.
* 0.730	2684.28	0.80	2386.03	60.	60.	140.	200.	144.	167.	16.	1493.	101.

103

SECNO	CMSL	DIFKMS	EG	TOPUID	PERENC	STENCL	STENCR	STCHL	STCHR	QLO8	GCH	QRO8
*	0.730	2684.87	0.0	2685.47	214.	0.	0.	144.	167.	57.	1111.	442.
	0.730	2686.32	1.44	2687.11	60.	0.	200.	144.	167.	21.	1395.	194.
*	0.730	2685.68	0.0	2686.96	126.	0.	0.	144.	167.	10.	1218.	382.
	0.730	2686.12	0.45	2688.12	60.	0.	200.	144.	167.	14.	1497.	99.
*	0.800	2693.42	0.0	2694.71	125.	0.	0.	144.	167.	9.	1203.	368.
	0.800	2693.86	0.44	2695.84	60.	0.	200.	144.	167.	13.	1474.	93.
*	0.930	2708.01	0.0	2709.77	46.	0.	0.	50.	94.	0.	1510.	15.
	0.930	2707.98	-0.03	2709.82	40.	0.	95.	50.	94.	0.	1523.	2.
*	0.930	2708.86	0.0	2711.00	49.	0.	0.	70.	85.	216.	1141.	168.
	0.930	2708.83	-0.03	2711.14	42.	0.	95.	70.	85.	220.	1167.	138.
*	0.930	2710.31	0.0	2711.45	55.	0.	0.	70.	85.	231.	1075.	218.
	0.930	2710.11	-0.20	2711.49	44.	0.	95.	70.	85.	238.	1125.	162.
*	0.930	2711.13	0.0	2711.56	61.	0.	0.	50.	94.	0.	1466.	59.
	0.930	2711.15	0.02	2711.63	45.	0.	92.	50.	94.	0.	1522.	3.
	0.970	2711.63	0.0	2712.48	33.	0.	0.	116.	148.	0.	1510.	0.
	0.970	2711.71	0.08	2712.54	34.	0.	150.	116.	148.	0.	1510.	0.
	0.970	2711.02	0.0	2713.40	18.	0.	0.	120.	138.	0.	1510.	0.
	0.970	2711.12	0.09	2713.43	18.	0.	150.	120.	138.	0.	1510.	0.
	0.970	2711.16	0.0	2713.44	18.	0.	0.	120.	138.	0.	1510.	0.
	0.970	2711.24	0.08	2713.47	18.	0.	150.	120.	138.	0.	1510.	0.
*	0.970	2712.48	0.0	2714.37	54.	0.	0.	116.	148.	0.	1498.	12.
	0.970	2712.35	-0.13	2714.40	34.	0.	150.	116.	148.	0.	1508.	2.
*	1.090	2728.52	0.0	2730.39	48.	0.	0.	442.	476.	20.	1435.	0.
	1.090	2728.38	-0.14	2730.44	33.	0.	480.	442.	476.	4.	1451.	0.
*	1.120	2731.68	0.0	2734.42	20.	0.	0.	445.	465.	0.	1455.	0.
	1.120	2731.64	-0.04	2734.42	20.	0.	480.	445.	465.	0.	1455.	0.
	1.120	2732.05	0.0	2734.46	20.	0.	0.	445.	465.	0.	1455.	0.
	1.120	2732.03	-0.03	2734.45	20.	0.	480.	445.	465.	0.	1455.	0.
	1.120	2734.03	0.0	2734.69	228.	0.	0.	442.	476.	196.	1250.	10.
	1.120	2733.21	-0.82	2734.66	40.	0.	480.	442.	476.	8.	1446.	0.
*	1.300	2757.19	0.0	2758.74	93.	0.	0.	442.	476.	62.	1313.	0.
	1.300	2757.04	-0.15	2758.93	35.	0.	480.	442.	476.	7.	1368.	0.
*	1.460	2790.63	0.0	2791.50	206.	0.	0.	412.	445.	323.	960.	31.
	1.460	2790.95	0.32	2792.74	40.	0.	450.	412.	445.	0.	1307.	7.
*	1.480	2797.73	0.0	2798.60	206.	0.	0.	412.	445.	322.	962.	31.
	1.480	2798.06	0.33	2799.84	40.	0.	450.	412.	445.	0.	1307.	8.
*	1.600	2822.54	0.0	2823.42	203.	0.	0.	412.	445.	299.	936.	25.
	1.600	2822.86	0.32	2824.59	40.	0.	450.	412.	445.	0.	1253.	6.

103

J03

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
*	1.710	2839.08	0.0	2840.70	36.	0.	0.	0.	404.	444.	0.	1210.	0.
*	1.710	2839.06	-0.02	2840.70	36.	50.	400.	450.	404.	444.	0.	1210.	0.
*	1.720	2845.10	0.0	2845.52	270.	0.	0.	0.	404.	444.	57.	759.	394.
*	1.720	2842.84	-2.26	2845.54	22.	50.	400.	450.	404.	444.	0.	1210.	0.
	1.720	2845.58	0.0	2845.79	302.	0.	0.	0.	404.	444.	94.	658.	457.
	1.720	2843.83	-1.75	2845.99	29.	50.	400.	450.	404.	444.	0.	1210.	0.
	1.720	2845.63	0.0	2845.87	306.	0.	0.	0.	404.	444.	58.	803.	348.
	1.720	2845.60	-0.04	2846.31	50.	50.	400.	450.	404.	444.	9.	1169.	32.
*	1.860	2875.73	0.0	2876.73	172.	0.	0.	0.	180.	210.	145.	993.	17.
*	1.860	2875.47	-0.26	2877.28	30.	30.	180.	210.	180.	210.	0.	1155.	0.

SUMMARY OF ERRORS

CAUTION SECNO= 0.270 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 0.270 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.440 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 0.440 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 0.440 PROFILE= 1
 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.440 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.440 PROFILE= 2
 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.440 PROFILE= 2
 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.600 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.600 PROFILE= 1
 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.600 PROFILE= 1
 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.600 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.600 PROFILE= 2
 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.600 PROFILE= 2
 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.730 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.730 PROFILE= 1
 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.730 PROFILE= 1
 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.730 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.730 PROFILE= 2
 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.730 PROFILE= 2
 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.730 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO= 0.730 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.730 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.730 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.730 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.730 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.730 PROFILE= 2

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.800 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.800 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.930 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.930 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.930 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.930 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.930 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.930 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.930 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.930 PROFILE= 2

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.930 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO= 0.930 PROFILE= 2 HYDRAULIC JUMP D.S.

CAUTION SECNO= 0.970 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.970 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.970 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.970 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.970 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.970 PROFILE= 2

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.090 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.090 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.120 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.120 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.300 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.300 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.300 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.300 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.460 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.460 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.460 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.460 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.460 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.460 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.480 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.480 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.480 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.480 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.480 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.480 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.600 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.600 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.710 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.710 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.710 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.710 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.720 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.720 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.720 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.720 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.720 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.720 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.860 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.860 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.860 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1.860 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.860 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.860 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

M03

FLOODWAY DATA BROWN CREEK
PROFILE NO. 2

STATION	WIDTH (FT)	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
0.040	40.	190.	10.0	2623.7	2622.7	1.0
0.150	30.	193.	9.6	2630.7	2629.9	0.8
0.270	30.	145.	12.4	2640.6	2640.6	0.0
0.300	30.	214.	8.4	2643.0	2642.4	0.6
0.440	100.	240.	7.2	2655.2	2655.2	0.0
0.440	100.	369.	4.7	2656.2	2656.0	0.2
0.440	100.	245.	7.0	2656.2	2656.2	0.0
0.440	100.	337.	5.1	2657.1	2656.4	0.7
0.440	100.	475.	3.6	2657.2	2656.4	0.8
0.440	100.	476.	3.6	2657.2	2656.4	0.8
0.600	60.	190.	8.8	2671.7	2671.2	0.5
0.720	60.	246.	6.6	2679.9	2679.2	0.7
0.730	60.	207.	7.8	2684.3	2683.5	0.8
0.730	60.	329.	4.9	2686.3	2684.9	1.4
0.730	60.	186.	8.7	2686.1	2685.7	0.4
0.800	60.	182.	8.7	2693.9	2693.4	0.5
0.930	45.	142.	10.8	2708.0	2708.0	0.0
0.930	45.	176.	8.7	2708.9	2708.9	0.0
0.930	45.	231.	6.6	2710.3	2710.3	0.0
0.930	45.	277.	5.5	2711.1	2711.1	0.0
0.970	35.	206.	7.3	2711.7	2711.6	0.1
0.970	35.	124.	11.2	2711.1	2711.0	0.1
0.970	35.	126.	12.0	2711.2	2711.2	0.0
0.970	35.	133.	11.4	2712.5	2712.5	0.0
1.090	40.	128.	11.3	2728.5	2728.5	0.0
1.120	40.	109.	13.4	2731.7	2731.7	0.0
1.120	40.	116.	12.5	2732.1	2732.1	0.0
1.120	40.	157.	9.3	2734.0	2734.0	0.0
1.300	40.	128.	10.7	2757.2	2757.2	0.0
1.460	40.	127.	10.4	2791.0	2790.6	0.4
1.480	40.	127.	10.4	2798.1	2797.7	0.4
1.600	40.	123.	10.2	2822.9	2822.5	0.4
1.710	50.	118.	10.3	2839.1	2839.1	0.0
1.720	50.	95.	12.7	2845.1	2845.1	0.0
1.720	50.	103.	11.7	2845.6	2845.6	0.0
1.720	50.	195.	6.2	2845.6	2845.6	0.0
1.860	30.	107.	10.8	2875.7	2875.7	0.0

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