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HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984  
ERROR CORR - 01,02,03,04,05,06  
MODIFICATION - 50,51,52,53,54,55,56  
IBM-PC-XT VERSION AUGUST 1985  
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THIS RUN EXECUTED 07-30-87 17:20:08

# BUIES CREEK

THIS RUN EXECUTED 08-17-87 09:14:25

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 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984  
 ERROR CORR - 01,02,03,04,05,06  
 MODIFICATION - 50,51,52,53,54,55,56  
 IBM-PC-XT VERSION AUGUST 1985  
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C  
 T1 HAYES, SEAY, MATTERN & MATTERN HARNETT CO, NC FIS  
 T2 FILENAME: BUIES.HEC ENG: SKE ET:WGH/EKL COMM. NO 2340A  
 T3 BUIES CREEK DATE: 8/17/87 10-YEAR EVENT

J1	ICHECK	INQ	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	0.	2.	0.	0.	.003700	.00	.0	0.	97.940	.000

  

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000

  

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

	150.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
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QT	6.000	1379.000	2739.000	3454.000	5921.000	.000	3454.000	.000	.000	.000
NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
NH	6.000	1.000	4510.000	.205	4760.000	.110	4957.500	.048	5042.500	.140
NH	5225.000	.224	5320.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	9.410	.000	.000	.000

ON THE QT CARDS, THE DISCHARGES ARE AS FOLLOWS:

FIELD #2	#3	#4	#5
Q# 10-YEAR	50-YEAR	100-YEAR	500-YEAR

Cross Section A

X1	360.000	28.000	4957.500	5042.500	360.000	360.000	360.000	.000	.000	.000
GR	120.000	4170.000	112.500	4510.000	115.000	4640.000	112.690	4760.000	110.000	4900.000
GR	104.640	4957.500	100.380	4967.500	97.360	4977.500	95.260	4982.000	92.670	4983.000
GR	91.070	4989.000	90.050	4994.000	91.120	4999.000	91.680	5004.000	91.800	5009.000
GR	92.280	5014.000	92.690	5019.000	95.350	5022.500	98.190	5027.500	100.060	5032.500
GR	102.210	5042.500	103.290	5052.500	104.070	5072.500	105.100	5092.500	105.550	5107.500
GR	110.000	5200.000	112.080	5225.000	120.000	5320.000	.000	.000	.000	.000

NH	6.000	1.000	4520.000	.205	4740.000	.140	4976.500	.048	5023.500	.080
NH	5190.000	.170	5220.000	.000	.000	.000	.000	.000	.000	.000

Cross Section B

X1	2640.000	23.000	4976.500	5023.500	2300.000	2225.000	2280.000	.000	.000	.000
GR	120.000	4260.000	114.800	4520.000	110.400	4740.000	110.000	4760.000	105.200	4948.500
GR	104.990	4958.500	104.350	4968.500	103.650	4976.500	100.350	4983.500	98.670	4988.500
GR	108.590	4973.000	107.290	4998.500	99.000	5003.500	99.130	5008.500	100.470	5012.500
GR	105.590	4994.000	107.190	5023.500	107.030	5033.500	108.820	5058.500	109.580	5083.500
GR	118.500	5350.000	120.000	5190.000	120.000	5220.000	.000	.000	.000	.000
NH	8.000	1.000	4410.000	1.000	4480.000	.500	4630.000	.320	4967.000	.048
NH	5033.000	.030	5350.000	.170	5570.000	1.000	5820.000	.000	.000	.000

Cross Section C

X1	4520.000	25.000	4967.000	5033.000	1675.000	1750.000	1880.000	.000	.000	.000
GR	140.000	3540.000	130.000	3580.000	120.000	3640.000	113.790	4410.000	113.230	4480.000
GR	112.020	4630.000	110.000	4800.000	109.590	4953.000	109.490	4963.000	109.790	4967.000
GR	108.590	4973.000	107.290	4974.000	106.190	4974.000	106.090	4984.000	105.590	4989.000
GR	105.590	4994.000	107.190	5000.000	109.390	5003.000	110.590	5033.000	109.890	5063.000
GR	118.500	5350.000	120.000	5400.000	129.440	5570.000	130.050	5580.000	140.000	5820.000
NH	8.000	1.000	4460.000	.195	4750.000	.170	4969.750	.048	5030.250	.080
NH	5260.000	.080	5410.000	.170	5620.000	1.000	6670.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	5.410	.000	.000	.000
X1	5340.000	20.000	4969.750	5030.250	770.000	810.000	820.000	.000	.000	.000
GR	150.000	4020.000	140.000	4100.000	130.000	4250.000	125.710	4460.000	120.000	4740.000
GR	119.690	4750.000	112.870	4969.750	109.550	4979.850	108.570	4989.950	109.550	4999.950
GR	111.470	5010.050	113.150	5020.150	114.700	5030.250	120.000	5160.000	121.060	5260.000
GR	122.660	5410.000	124.890	5620.000	130.000	6100.000	140.000	6450.000	150.000	6670.000
NH	7.000	.195	4750.000	.170	4972.500	.048	5027.500	.080	5260.000	.080
NH	5410.000	.170	5620.000	1.000	6560.000	.000	.000	.000	.000	.000

Cross Section D

X1	6120.000	24.000	4972.500	5027.500	780.000	800.000	780.000	.000	.000	.000
GR	140.000	4520.000	130.000	4580.000	124.330	4750.000	120.000	4880.000	116.060	4962.500
GR	115.960	4972.500	113.660	4975.500	112.660	4978.500	113.360	4983.500	111.560	4988.500
GR	116.060	4993.500	111.960	4998.500	111.960	5003.500	113.560	5008.500	114.560	5009.500
GR	116.060	5017.500	118.060	5027.500	120.060	5057.500	120.060	5077.500	122.160	5260.000
GR	123.890	5410.000	126.310	5620.000	133.000	5940.000	140.000	6560.000	.000	.000
NH	6.000	1.000	4460.000	.840	4750.000	.250	4981.850	.048	5018.150	.080
NH	5260.000	.170	5340.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	9.110	.000	.000	.000
X1	6765.500	18.000	4981.850	5018.150	631.000	631.000	646.000	.000	.000	.000
GR	150.000	3265.000	140.000	3535.000	130.000	3755.000	120.000	4275.000	119.050	4460.000
GR	117.560	4750.000	116.370	4981.850	114.550	4987.950	113.970	4993.950	114.140	5000.050
GR	114.830	5006.050	116.390	512.150	118.290	5018.150	120.000	5080.000	130.000	5170.000
GR	140.000	5240.000	142.000	5260.000	150.000	5340.000	.000	.000	.000	.000

OT	6.000	1361.000	2706.000	3415.000	5862.000	3415.000	3415.000	.000	5220.000	.000	.000
NH	6.000	.195	4670.000	.155	4992.000	5008.000	5008.000	.050	5220.000	.190	.251
NH	5350.000	1.000	5371.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	4758.000	.000	5008.000
X1	7465.500	17.000	4992.000	5008.000	684.000	700.000	700.000	.000	.000	.000	.000
GR	149.650	4071.000	139.650	4311.000	129.650	126.250	126.250	4551.000	117.060	4670.000	4992.000
GR	116.710	4995.380	116.580	5001.000	117.070	117.140	117.140	5007.000	117.410	5007.380	5007.750
GR	118.070	5008.060	118.070	5010.000	129.650	139.650	139.650	5051.000	140.770	5201.000	5220.000
GR	148.410	5350.000	149.650	5371.000	.000	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000	.000
NH	6.000	.195	4670.000	.155	4992.000	5008.000	5008.000	.050	5220.000	.190	.251
NH	5350.000	1.000	5371.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	4783.000	.000	5008.000
X1	7529.500	17.000	4992.000	5008.000	64.000	64.000	64.000	.000	.000	.000	.000
X3	10.000	.000	.000	.003	.000	.000	.000	.000	122.540	121.840	.000
GR	150.000	4071.000	140.000	4311.000	130.000	126.600	126.600	4551.000	117.410	4670.000	4992.000
GR	117.060	4995.380	116.930	5001.000	117.420	117.490	117.490	5007.000	117.760	5007.380	5007.750
GR	118.420	5008.000	118.420	5010.000	130.000	140.000	140.000	5051.000	141.120	5201.000	5220.000
GR	148.760	5350.000	150.000	5371.000	.000	.000	.000	.000	.000	.000	.000
NH	6.000	.195	4670.000	.155	4992.000	5008.000	5008.000	.053	5220.000	.190	.251
NH	5350.000	1.000	5371.000	.000	.000	.000	.000	.000	.000	.000	.000
SB	1.250	1.950	2.600	.000	9.000	35.000	35.000	4.000	116.930	.070	116.930
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

SR 1519

X1	7570.500	33.000	4992.000	5008.000	41.000	41.000	41.000	41.000	.000	.000	.000
X2	.000	.000	1.000	.000	126.260	.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	126.260	.000	.000
BT	-33.000	4071.000	150.000	150.000	4311.000	140.000	140.000	140.000	4551.000	126.260	130.000
BT	.000	4670.000	126.990	126.600	4992.000	126.260	117.410	117.410	4993.990	126.310	117.010
BT	.000	4994.000	126.310	118.650	4994.250	126.320	118.920	118.920	4994.630	126.320	118.990
BT	.000	4995.380	126.340	118.990	4995.750	126.350	118.650	118.650	4995.990	126.360	117.990
BT	.000	4996.000	126.360	117.990	4998.000	126.410	119.930	119.930	4998.750	126.430	121.910
BT	.000	4999.880	126.450	122.710	5001.000	126.480	122.930	122.930	5002.130	126.510	122.710
BT	.000	5003.250	126.540	119.350	5004.000	126.540	119.930	119.930	5006.000	126.600	118.420
BT	.000	5006.250	126.610	119.080	5006.630	126.620	119.340	119.340	5007.000	126.630	119.420
BT	.000	5007.380	126.640	119.350	5007.750	126.650	119.080	119.080	5008.000	126.650	118.420
BT	.000	5010.000	126.700	118.420	5051.000	130.000	130.000	130.000	5201.000	140.000	140.000
BT	.000	5220.000	141.120	141.120	5350.000	148.760	148.760	148.760	5371.000	150.000	150.000
GR	150.000	4071.000	140.000	4311.000	130.000	126.600	126.600	4551.000	117.410	4670.000	4992.000
GR	117.010	4993.990	117.990	4994.000	117.330	4994.250	117.060	4996.000	117.060	4998.750	4995.380
GR	117.330	4995.750	117.990	4995.990	117.990	5002.130	117.930	4996.000	117.940	4998.750	5004.000
GR	117.150	4999.880	116.930	5001.000	117.150	5002.130	117.950	5002.130	5003.250	119.930	5004.000
GR	118.420	5006.000	117.760	5006.250	117.490	5006.630	117.420	5006.630	117.490	5007.380	5007.380
GR	117.760	5007.750	118.420	5008.000	118.420	5010.000	130.000	5010.000	140.000	5051.000	5201.000
GR	141.120	5220.000	148.760	5350.000	150.000	5371.000	.000	5371.000	.000	.000	.000



NH	7.000	1.000	4710.000	.220	4884.000	.180	4984.000	.000	5016.000	.180
NH	5190.000	.251	5360.000	1.000	5680.000	.000	5880.000	.000	5016.000	.180
ET	10487.000	.000	4984.000	.000	522.000	.000	4.410	.000	.000	.000
GR	179.050	4270.000	169.050	4470.000	159.050	4590.000	149.050	4660.000	148.660	4710.000
GR	148.090	4784.000	147.710	4834.000	147.320	4884.000	146.380	4934.000	134.910	4983.980
GR	134.910	4983.990	134.910	4984.000	134.910	4984.010	134.250	4989.000	133.720	4994.250
GR	133.710	4994.260	133.690	4994.500	133.660	4994.750	133.660	4994.760	133.060	5000.000
GR	132.460	5005.250	132.460	5005.260	132.430	5005.500	132.410	5005.750	132.410	5005.760
GR	132.070	5011.000	133.820	5015.970	133.820	5015.980	133.820	5015.990	133.830	5016.000
GR	142.570	5050.000	146.680	5066.000	148.630	5116.000	148.720	5166.000	148.760	5190.000
GR	148.800	5216.000	149.050	5360.000	159.050	5560.000	169.050	5630.000	179.050	5780.000
GR	189.050	5800.000	.000	.000	.000	.000	.000	.000	.000	.000
MC	.000	.000	.000	.360	.500	.000	.000	.000	.000	.000
NH	7.000	1.000	4710.000	.220	4884.000	.180	4984.000	.000	5016.000	.180
NH	5190.000	.251	5360.000	1.000	5680.000	.000	5880.000	.000	5016.000	.180
X1	10615.000	41.000	4994.000	5016.000	128.000	128.000	128.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	180.000	4270.000	170.000	4470.000	160.000	4590.000	150.000	4660.000	149.610	4710.000
GR	149.040	4784.000	148.660	4834.000	148.270	4884.000	147.330	4934.000	135.860	4983.980
GR	135.860	4983.990	135.860	4984.000	135.860	4984.010	135.200	4989.000	134.670	4994.250
GR	134.660	4994.260	134.640	4994.500	134.610	4994.750	134.610	4994.760	134.010	5000.000
GR	133.410	5005.250	133.410	5005.260	133.380	5005.500	133.360	5005.750	133.360	5005.760
GR	133.020	5011.000	134.770	5015.970	134.770	5015.980	134.770	5015.990	134.780	5016.000
GR	143.520	5050.000	147.630	5066.000	149.580	5116.000	149.670	5166.000	149.710	5190.000
GR	149.750	5216.000	150.000	5360.000	160.000	5560.000	170.000	5630.000	180.000	5780.000
GR	190.000	5880.000	.000	.000	.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4710.000	.220	4884.000	.180	4984.000	.000	5016.000	.180
NH	5190.000	.251	5360.000	1.000	5680.000	.000	5880.000	.000	5016.000	.180
SB	1.250	2.000	2.600	.000	32.000	2.000	244.000	.000	133.020	133.020

US 421

X1	10725.000	41.000	4984.000	5016.000	110.000	110.000	110.000	.000	.000	.000
X2	.000	.000	1.000	141.150	.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
BT	-41.000	4270.000	180.000	180.000	4470.000	170.000	170.000	4590.000	160.000	160.000
BT	.000	4660.000	157.620	4710.000	155.950	4784.000	149.610	4784.000	153.400	149.040
BT	.000	4834.000	151.720	4884.000	151.810	4934.000	148.270	4934.000	151.980	147.330
BT	.000	4983.980	152.300	4983.990	152.300	4984.000	148.660	4984.000	152.300	147.330
BT	.000	4984.010	152.300	4984.010	152.330	4994.250	140.960	4994.250	152.370	141.000
BT	.000	4994.260	152.370	4994.260	152.370	4994.750	134.640	4994.750	152.370	134.610
BT	.000	4994.760	152.370	4994.760	152.410	5005.250	141.040	5005.250	152.450	141.080
BT	.000	5005.260	152.450	5005.260	152.450	5005.750	133.380	5005.750	152.450	133.360
BT	.000	5005.760	152.450	5011.000	152.490	5015.970	141.120	5015.970	152.520	141.150
BT	.000	5015.980	152.520	5015.990	152.570	5016.000	141.150	5016.000	152.520	134.780
BT	.000	5050.000	152.760	5066.000	152.870	5116.000	147.630	5116.000	153.620	149.580
BT	.000	5146.000	154.540	5190.000	155.070	5216.000	149.710	5216.000	155.650	149.750
BT	.000	5360.000	157.340	5560.000	160.000	5630.000	160.000	5630.000	170.000	170.000
BT	.000	5780.000	180.000	5880.000	190.000	5880.000	190.000	5880.000	190.000	190.000
GR	180.000	4270.000	170.000	4470.000	160.000	4590.000	150.000	4660.000	149.610	4710.000

GR	149.040	4784.000	148.660	4834.000	148.270	4884.000	147.330	4934.000	135.860	4983.980
GR	135.860	4983.990	135.860	4984.000	135.860	4984.010	135.200	4989.000	134.670	4994.250
GR	134.660	4994.260	134.660	4994.500	134.610	4994.750	134.610	4994.760	134.010	5000.000
GR	133.410	5005.250	133.410	5005.260	133.300	5005.560	133.360	5005.750	133.360	5005.760
GR	133.020	5011.000	134.770	5015.970	134.770	5015.980	134.770	5015.990	134.780	5016.000
GR	143.520	5050.000	147.650	5066.000	149.570	5116.000	149.670	5165.000	149.710	5190.000
GR	149.750	5216.000	150.000	5360.000	160.000	5560.000	170.000	5630.000	180.000	5780.000
GR	190.000	5880.000	.000	.000	.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4710.000	220	4894.000	1.180	4994.000	.053	5016.000	1.180
NH	5190.000	251	5360.000	1.000	5880.000	.000	.000	.000	.000	.000
X1	10757.000	41.000	4984.000	5016.000	32.000	32.000	32.000	.000	.000	.000
GR	180.980	4270.000	170.980	4470.000	160.980	4590.000	150.980	4660.000	150.590	4710.000
GR	150.020	4784.000	149.640	4934.000	149.250	4884.000	148.210	4934.000	136.840	4983.980
GR	136.840	4903.990	136.840	4984.000	136.670	4984.010	136.180	4989.000	135.650	4994.250
GR	135.640	4994.260	135.620	4994.500	135.590	4994.750	135.590	4994.760	134.990	5000.000
GR	134.390	5005.250	135.390	5005.260	135.360	5005.560	134.340	5005.750	134.340	5005.760
GR	144.500	5050.000	148.610	5066.000	150.560	5116.000	150.650	5166.000	150.690	5190.000
GR	150.730	5216.000	150.980	5360.000	160.980	5560.000	170.980	5630.000	180.980	5780.000
GR	190.980	5880.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	7.000	1.000	4740.000	220	4910.000	1.180	4992.500	.059	5017.500	1.180
NH	5200.000	251	5350.000	1.000	5890.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	11.410	.000	.000	.000
X1	10787.000	27.000	4982.560	5017.500	30.000	30.000	30.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	170.000	4350.000	160.000	4520.000	150.390	4740.000	148.530	4782.500	146.340	4832.500
GR	144.160	4832.500	143.350	4910.000	142.680	4932.500	141.140	4982.480	141.120	4982.490
GR	141.100	4982.500	141.070	4982.510	134.480	4985.500	134.660	4996.500	134.740	5000.000
GR	134.930	5006.500	141.290	5017.470	141.280	5017.400	141.280	5017.490	141.280	5017.500
CR	144.850	5065.500	147.320	5157.500	150.950	5167.500	151.460	5200.000	153.790	5350.000
GR	160.000	5750.000	170.000	5890.000	.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4740.000	220	4910.000	1.180	4992.500	.059	5017.500	1.180
NH	5200.000	251	5350.000	1.000	5890.000	.000	.000	.000	.000	.000
SB	1.250	1.560	2.600	.000	35.000	.000	265.000	.000	134.480	134.480
NC 27										
X1	10312.000	27.000	4982.500	5017.500	25.000	25.000	25.000	.000	.000	.000
X2	.000	.000	1.000	142.060	145.700	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
BT	-27.000	4350.000	170.000	170.000	4520.000	160.000	160.000	4740.000	150.390	150.390
BT	.000	4782.500	148.540	14.530	4832.500	146.700	146.340	4832.500	146.020	144.160
BT	.000	4910.000	145.940	143.350	4932.500	145.870	142.680	4982.480	145.700	134.480
BT	.000	4982.490	145.700	131.480	4982.500	148.600	134.480	4982.510	148.600	141.700
BT	.000	4985.500	148.650	141.730	4996.500	148.740	141.840	5000.000	148.780	141.880
BT	.000	5008.500	148.870	141.970	5017.470	148.960	142.060	5017.480	148.960	142.060
BT	.000	5017.490	146.060	142.060	5017.500	146.060	135.280	5065.500	147.980	144.850
BT	.000	5157.500	150.930	147.320	5167.500	150.960	150.960	5200.000	151.460	151.460
BT	.000	5350.000	153.790	153.790	5750.000	160.000	160.000	5890.000	170.000	170.000
GR	170.000	4350.000	160.000	4520.000	150.390	4740.000	148.530	4782.500	146.340	4832.500





NH	7.060	1.000	4570.000	.250	4830.000	.135	4983.500	.055	5016.500	.155
NH	5250.000	.195	5410.000	1.000	5740.000	.000	.000	.000	.000	.000
X1	14987.000	23.000	4983.500	5016.500	650.000	678.000	650.000	.000	.000	.000
GR	200.000	4455.000	190.000	4530.000	186.000	4570.000	180.000	4630.000	170.000	4700.000
GR	160.000	4760.000	151.250	4630.000	150.270	4840.000	150.270	4983.500	147.810	4989.000
GR	147.200	4994.500	147.100	5000.000	148.200	5005.500	149.100	5011.000	149.990	5016.500
GR	150.000	5190.000	160.000	5230.000	161.250	5250.000	170.000	5390.000	171.250	5410.000
GR	180.000	5550.000	190.000	5690.000	200.000	5740.000	.000	.000	.000	.000
NH	8.000	1.000	4720.000	.250	4850.000	.135	4985.000	.055	5015.000	.155
NH	5210.000	.195	5240.000	1.000	5380.000	1.000	5500.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	9.410	.000	.000	.000

Cross Section J

X1	15487.000	27.000	4985.000	5015.000	500.000	522.000	500.000	.000	.000	.000
GR	200.000	4580.000	190.000	4640.000	180.000	4680.000	173.330	4720.000	170.000	4740.000
GR	160.000	4800.000	157.050	4850.000	151.450	4945.000	150.950	4955.000	151.550	4965.000
GR	151.750	4975.000	152.150	4985.000	150.550	4993.000	149.850	4994.000	149.250	4999.000
GR	149.050	5004.000	149.150	5009.000	149.850	5009.500	151.550	5015.000	151.450	5025.000
GR	160.000	5200.000	162.500	5210.000	170.000	5240.000	180.000	5320.000	185.000	5380.000
GR	190.000	5440.000	200.000	5500.000	.000	.000	.000	.000	.000	.000

NH	7.000	1.000	4570.000	.250	4830.000	.135	4976.800	.055	5023.200	.155
NH	5250.000	.195	5410.000	1.000	5460.000	.000	.000	.000	.000	.000
X1	16287.000	21.000	4976.800	5023.200	811.000	811.000	800.000	.000	.000	.000
GR	200.000	4270.000	190.000	4370.000	180.000	4460.000	170.000	4520.000	165.000	4570.000
GR	160.000	4620.000	157.750	4830.000	156.180	4976.800	154.090	4984.500	154.090	4992.300
GR	152.350	5000.000	152.200	5007.800	153.260	5015.500	154.620	5023.200	160.000	5180.000
GR	167.780	5250.000	170.000	5270.000	180.000	5330.000	190.000	5400.000	191.670	5410.000
GR	200.000	5460.000	.000	.000	.000	.000	.000	.000	.000	.000

NH	6.000	.250	4670.000	.195	4976.500	.090	5023.500	.200	5100.000	.252
NH	5250.000	1.000	5405.000	.000	.000	.000	.000	.000	.000	.000
X1	16887.000	18.000	4976.500	5023.500	608.000	608.000	600.000	.000	.000	.000
GR	180.000	4525.000	170.000	4600.000	163.000	4670.000	160.000	4700.000	160.000	4700.010
GR	157.970	4976.500	156.780	4984.330	155.050	4992.170	154.600	5000.000	154.550	5007.830
GR	155.280	5015.670	156.530	5023.500	157.850	5100.000	160.000	5225.000	160.000	5225.010
GR	162.500	5250.000	170.000	5325.000	180.000	5405.000	.000	.000	.000	.000

NH	7.000	1.000	4490.000	.250	4670.000	.195	4966.500	.090	5033.500	.200
NH	5100.000	.252	5250.000	1.000	5530.000	.000	.000	.000	.000	.000

Cross Section K

X1	17287.000	27.000	4984.500	5033.500	406.000	406.000	400.000	.000	.000	.000
GR	200.000	4240.000	190.000	4340.000	180.000	4420.000	173.000	4490.000	170.000	4520.000
GR	167.420	4670.000	162.620	4948.500	161.020	4966.500	160.020	4984.500	158.020	4995.500
GR	156.120	4999.500	156.820	5004.500	156.920	5009.500	156.120	5013.500	156.620	5018.500
GR	156.720	5022.500	158.220	5027.500	158.520	5033.500	158.620	5042.500	159.120	5060.500
GR	159.120	5069.500	161.480	5100.000	170.000	5210.000	176.670	5250.000	180.000	5270.000
GR	190.000	5350.000	200.000	5530.000	.000	.000	.000	.000	.000	.000

NH	7.000	1.000	4750.000	.250	4880.000	-180	4986.000	.090	5014.000	.180
NH	5190.000	.252	5370.000	1.000	5600.000	.000	.000	.090	.000	.000

Cross Section L

X1	18417.000	25.000	4986.000	5014.000	1100.000	1130.000	.000	.000	.000	.000
GR	200.000	4620.000	190.000	4720.000	4750.000	180.000	4800.000	170.000	4860.000	.000
GR	168.840	4880.000	163.860	4966.000	4976.000	163.560	4986.000	162.360	4991.000	.000
GR	162.060	4993.000	161.960	4998.000	5001.000	160.560	5004.000	160.660	5007.000	.000
GR	162.360	5011.000	163.260	5014.000	5024.000	163.360	5034.000	167.940	5190.000	.000
GR	170.000	5260.000	180.000	5340.000	5370.000	190.000	5440.000	200.000	5600.000	.000
NH	7.000	1.000	4640.000	.250	4800.000	4970.000	.090	5030.000	.180	.000
NH	5190.000	.252	5330.000	1.000	5340.000	.000	.000	.000	.000	.000
X1	19017.000	18.000	4970.000	5030.000	600.000	600.000	.000	.000	.000	.000
GR	190.000	4505.000	160.000	4580.000	4640.000	170.000	4640.010	167.260	4800.000	.000
GR	164.350	4970.000	163.010	4980.000	4990.000	163.480	5000.000	162.910	5010.000	.000
GR	163.230	5020.000	164.310	5030.000	5165.000	170.000	5165.010	175.000	5190.000	.000
GR	180.000	5215.000	189.200	5330.000	5340.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4640.000	.250	4800.000	4960.000	.090	5040.000	.180	.000
NH	5190.000	.252	5330.000	1.000	6080.000	.000	.000	.000	.000	.000

Cross Section M

X1	19417.000	25.000	4960.000	5040.000	390.900	400.000	.000	.000	.000	.000
GR	200.000	4040.000	190.000	4280.000	4480.000	173.330	4640.000	170.000	4720.000	.000
GR	168.600	4800.000	166.080	4960.000	4969.000	164.480	4973.000	165.080	4979.000	.000
GR	165.180	4985.000	166.580	4989.000	4998.000	166.180	5008.000	166.080	5016.000	.000
GR	164.680	5018.000	165.580	5025.000	5031.000	166.280	5040.000	169.070	5190.000	.000
GR	170.000	5240.000	180.000	5300.000	5330.000	190.000	5380.000	200.000	6080.000	.000
NH	7.000	1.000	4640.000	.250	4800.000	4970.950	.090	5029.050	.180	.000
NH	5190.000	.252	5330.000	1.000	5370.000	.000	.000	.000	.000	.000
X1	19892.000	18.000	4970.950	5029.050	497.000	475.000	.000	.000	.000	.000
GR	200.000	4410.000	190.000	4520.000	4640.000	180.000	4660.000	170.000	4730.000	.000
GR	169.510	4800.000	168.330	4970.950	4980.650	166.340	4990.350	167.090	4999.950	.000
GR	167.120	5009.650	167.560	5019.350	5029.050	170.000	5180.000	171.250	5190.000	.000
GR	180.000	5260.000	186.360	5330.000	5370.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4680.000	.250	4820.000	4982.500	.090	5017.500	.180	.000
NH	5117.500	.252	5310.000	1.000	5840.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	5.410	.000	.000	.000	.000
X1	20392.000	42.000	4982.500	5017.500	524.000	500.000	.000	.000	.000	.000
CR	199.210	4255.000	189.210	4595.000	4680.000	179.210	4780.000	176.040	4782.500	.000
GR	175.700	4820.000	175.590	4832.500	4840.000	176.550	4882.500	176.170	4890.000	.000
GR	174.010	4932.500	171.620	4982.480	4982.490	171.620	4982.500	171.620	4982.510	.000
GR	171.370	4988.500	168.310	4991.500	4999.900	168.800	4999.910	168.800	5000.000	.000
GR	168.800	5000.010	168.830	5000.500	5001.000	168.860	5001.010	168.870	5001.100	.000
GR	168.870	5001.110	169.330	5008.500	5013.500	171.450	5017.470	171.760	5017.480	.000
GR	171.760	5017.490	171.760	5017.500	5067.500	177.000	5090.000	176.020	5117.500	.000
GR	176.200	5160.000	176.230	5167.500	5190.000	177.290	5217.500	180.510	5310.000	.000
GR	189.210	5560.000	199.210	5840.000	.000	.000	.000	.000	.000	.000

QT	6.000	547.000	1172.000	1542.000	2913.000	.000	1542.000	.000	.000
KC	.000	.000	.000	.300	.500	.000	.000	.000	.000
NH	7.000	1.000	4680.000	.250	4820.000	.180	4982.500	.000	.180
NH	5117.500	.252	5310.000	1.000	5840.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	20532.000	42.000	4982.500	5017.500	140.000	.000	140.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	200.000	4255.000	190.000	4595.000	185.410	4880.000	180.000	176.350	4780.000
GR	176.490	4820.000	176.380	4832.500	176.520	4840.000	177.340	176.830	4882.500
GR	174.800	4932.500	172.410	4982.480	172.410	4982.490	172.410	172.410	4982.500
GR	172.160	4986.500	169.100	4991.500	169.590	4999.900	169.590	169.590	4999.910
GR	169.590	5000.010	169.620	5000.500	169.650	5001.010	169.660	169.660	5001.100
GR	169.660	5001.110	170.120	5008.500	172.240	5013.500	172.550	172.550	5017.470
GR	172.550	5017.490	172.550	5017.500	178.600	5067.500	177.790	176.610	5090.000
GR	176.990	5160.000	177.030	5167.500	177.500	5190.000	178.080	181.300	5217.500
GR	190.000	5560.000	200.000	5840.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4680.000	.300	4820.000	.250	4982.500	1.000	.250
NH	5117.500	.300	5310.000	1.000	5840.000	.000	.000	.000	.000
SB	1.250	1.710	2.600	.000	17.000	1.000	189.000	1.490	169.100
ET	.000	.000	.000	.000	.000	.000	4.410	.000	.000

SR 1516

X1	20561.000	42.200	4982.500	5017.500	29.000	29.000	.300	.000	.000
X2	.000	.000	1.000	176.210	177.690	.000	177.730	.000	.000
X3	10.000	.000	.000	.000	.000	.000	177.690	.000	.000
BT	-42.000	4255.000	200.000	200.000	4595.000	190.000	4680.000	185.410	4820.000
BT	.000	4780.000	180.000	180.000	4782.500	178.980	4820.000	178.340	4882.500
BT	.000	4832.500	178.130	176.380	4840.000	178.070	4882.500	177.730	4982.510
BT	.000	4890.000	177.740	176.930	4932.500	177.800	4982.480	177.780	4999.900
BT	.000	4982.490	177.780	172.410	4982.500	180.280	4982.510	180.280	4999.900
BT	.000	4986.500	180.280	176.180	4991.500	180.290	4999.900	180.290	4999.900
BT	.000	4999.910	180.290	174.810	5000.000	180.300	5000.010	180.300	5000.010
BT	.000	5000.500	180.300	169.620	5001.000	180.300	5001.010	180.300	5001.010
BT	.000	5001.100	180.300	174.810	5001.110	180.300	5008.500	180.300	5008.500
BT	.000	5013.500	180.310	176.210	5017.470	176.210	5017.480	180.310	5017.480
BT	.000	5017.490	177.810	176.210	5017.500	177.810	5067.500	177.750	5067.500
BT	.000	5090.000	177.730	175.640	5117.500	176.810	5160.000	177.950	5160.000
BT	.000	5167.500	178.000	177.020	5190.000	178.430	5217.500	178.960	5217.500
BT	.000	5310.000	181.300	181.300	5560.000	190.000	5840.000	200.000	5840.000
BT	.000	4255.000	190.000	4595.000	185.410	4680.000	4780.000	176.830	4782.500
GR	176.490	4820.000	176.380	4832.500	176.520	4840.000	4882.500	176.960	4890.000
GR	174.800	4932.500	172.410	4982.480	172.410	4982.490	4982.500	172.410	4982.510
GR	172.160	4986.500	169.100	4991.500	169.590	4999.900	4999.910	169.590	5000.000
GR	169.590	5000.010	169.620	5000.500	169.650	5001.010	5001.010	169.660	5001.100
GR	169.660	5001.110	170.120	5008.500	172.240	5013.500	5017.470	172.550	5017.480
GR	172.550	5017.490	172.550	5017.500	174.680	5067.500	5090.000	176.610	5117.500
GR	176.990	5160.000	177.030	5167.500	177.500	5190.000	5217.500	181.300	5310.000
GR	190.000	5560.000	200.000	5840.000	.000	.000	.000	.000	.000

8-17-87 09:14:24

GET CHANGES

NH	7.000	1.000	4680.000	300	4820.000	.250	4982.500	090	5017.500	.250
NH	5117.500	.300	5310.000	1.000	5840.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	8.410	.000	.000	.000
X1	20596.000	42.000	4982.500	5017.500	35.000	35.000	180.010	4780.000	176.840	4782.500
GR	200.010	4255.000	190.010	4595.000	4680.000	4680.000	177.350	4882.500	176.970	4890.000
GR	176.500	4820.000	176.390	4332.500	4840.000	4840.000	172.420	4982.500	172.420	4982.510
GR	174.810	4932.500	172.420	4982.480	4982.490	4982.490	169.600	4999.910	169.600	5000.000
GR	172.170	4986.500	169.110	4991.500	4999.900	4999.900	169.660	5001.010	169.670	5001.100
GR	169.600	5000.010	169.630	5000.500	5001.000	5001.000	172.560	5017.470	172.560	5017.480
GR	169.670	5001.110	170.130	5008.500	5013.500	5013.500	177.800	5090.000	176.820	5117.500
GR	172.560	5017.490	172.560	5017.500	5067.500	5067.500	178.090	5217.500	181.310	5310.000
GR	177.000	5160.000	177.030	5167.500	5190.000	5190.000	.000	.000	.000	.000
GR	190.010	5560.000	200.010	5840.000	.000	.000	.000	.000	.000	.000
EJ	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

ONE OF THESE







THIS RUN EXECUTED 08-17-87 09:20:23

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 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984  
 ERROR CORR - 01,02,03,04,05,06  
 MODIFICATION - 50,51,52,53,54,55,56  
 IBM-PC-XT VERSION AUGUST 1985  
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NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

BUIES CREEK

SUMMARY PRINTOUT TABLE 150

SECD	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
360.000	.00	.00	.00	90.05	1379.00	97.94	.00	98.37	36.81	5.26	262.06	227.30
360.000	.00	.00	.00	90.05	2739.00	100.99	.00	101.57	37.02	6.13	446.92	450.20
360.000	.00	.00	.00	90.05	3454.00	102.16	.00	102.81	37.36	6.46	534.50	565.09
360.000	.00	.00	.00	90.05	5921.00	104.90	.00	105.82	36.94	7.73	813.13	974.20
2640.000	2280.00	.00	.00	98.57	1379.00	106.10	.00	106.53	34.77	5.32	309.99	233.85
2640.000	2280.00	.00	.00	98.57	2739.00	108.58	.00	109.12	29.71	6.35	744.58	502.49
2640.000	2280.00	.00	.00	98.57	3454.00	109.56	.00	110.11	27.68	6.63	1010.48	656.56
2640.000	2280.00	.00	.00	98.57	5921.00	111.95	.00	112.47	23.37	7.15	1938.46	1224.77
4520.000	1880.00	.00	.00	105.59	1379.00	112.17	.00	112.36	28.33	3.99	904.07	259.06
4520.000	1880.00	.00	.00	105.59	2739.00	113.76	.00	113.96	23.35	4.56	1940.58	566.80
4520.000	1880.00	.00	.00	105.59	3454.00	114.42	.00	114.63	21.99	4.77	2488.60	736.54
4520.000	1880.00	.00	.00	105.59	5921.00	116.19	.00	116.43	20.38	5.44	4290.95	1311.72
X 5340.000	820.00	.00	.00	108.57	1379.00	115.01	.00	115.47	50.76	5.49	317.55	193.56
X 5340.000	820.00	.00	.00	108.57	2739.00	116.34	.00	117.18	68.79	7.74	548.75	330.24
X 5340.000	820.00	.00	.00	108.57	3454.00	116.86	.00	117.88	75.20	8.61	668.15	398.30
X 5340.000	820.00	.00	.00	108.57	5921.00	118.34	.00	119.77	85.58	10.68	1089.65	640.03
A 6120.000	780.00	.00	.00	111.56	1379.00	118.41	.00	118.91	36.49	5.17	337.70	228.27
A 6120.000	780.00	.00	.00	111.56	2739.00	120.49	.00	121.09	37.58	6.58	668.28	446.83
A 6120.000	780.00	.00	.00	111.56	3454.00	121.26	.00	121.90	36.80	7.00	894.90	569.36
A 6120.000	780.00	.00	.00	111.56	5921.00	123.15	.00	123.78	32.97	7.70	1745.40	1031.17
6765.500	646.00	.00	.00	113.97	1379.00	120.37	.00	120.50	19.52	4.03	1808.71	312.12
6765.500	646.00	.00	.00	113.97	2739.00	122.45	.00	122.59	15.27	4.47	3670.68	700.89
6765.500	646.00	.00	.00	113.97	3454.00	123.24	.00	123.39	15.18	4.77	4435.76	886.65
6765.500	646.00	.00	.00	113.97	5921.00	125.11	.00	125.31	17.44	5.87	6415.69	1417.87
7465.500	700.00	.00	.00	116.58	1361.00	122.37	.00	122.73	58.42	6.97	625.06	178.07
7465.500	700.00	.00	.00	116.58	2706.00	124.11	.00	124.61	65.28	8.83	1065.72	334.92
7465.500	700.00	.00	.00	116.58	3415.00	124.87	.00	125.40	65.30	9.43	1293.43	422.60
7465.500	700.00	.00	.00	116.58	5862.00	126.90	.00	127.48	62.52	10.71	2012.14	741.34



SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CUSEL	CRINS	EG	10K*5	VCH	J/REA	.01K
7529.500	64.00	.00	.00	116.93	1361.00	122.75	.00	123.11	57.31	6.92	630.19	179.78
7529.500	64.00	.00	.00	116.93	2706.00	124.55	.00	125.02	61.84	8.66	1090.06	344.09
7529.500	64.00	.00	.00	116.93	3415.00	125.31	.00	125.81	62.12	9.26	1320.53	433.30
7529.500	64.00	.00	.00	116.93	5862.00	127.31	.00	127.88	60.31	10.57	2038.38	754.82
7570.500	41.00	126.26	122.93	116.93	1361.00	128.38	.00	128.39	2.29	1.56	2473.86	900.26
7570.500	41.00	126.26	122.93	116.93	2706.00	129.32	.00	129.35	5.83	2.63	2901.23	1120.65
7570.500	41.00	126.26	122.93	116.93	3415.00	129.67	.00	129.71	7.98	3.14	3068.67	1200.89
7570.500	41.00	126.26	122.93	116.93	5862.00	130.54	.00	130.63	16.37	4.72	3507.20	1448.90
7586.500	16.00	.00	.00	117.09	1361.00	128.38	.00	128.40	2.11	1.97	2414.24	936.70
7586.500	16.00	.00	.00	117.09	2706.00	129.32	.00	129.37	5.42	3.34	2837.57	1162.48
7586.500	16.00	.00	.00	117.09	3415.00	129.67	.00	129.74	7.44	3.99	3002.53	1252.27
7586.500	16.00	.00	.00	117.09	5862.00	130.54	.00	130.68	15.39	6.00	3434.00	1494.44
7670.000	83.50	.00	.00	117.52	1361.00	128.39	.00	128.44	5.05	2.52	1784.19	605.68
7670.000	83.50	.00	.00	117.52	2706.00	129.36	.00	129.46	11.16	4.00	2271.18	810.11
7670.000	83.50	.00	.00	117.52	3415.00	129.72	.00	129.85	14.51	4.67	2471.41	896.61
7670.000	83.50	.00	.00	117.52	5862.00	130.66	.00	130.89	25.92	6.61	3018.23	1151.47
8570.000	900.00	.00	.00	122.17	1361.00	129.23	.00	129.53	43.43	5.62	764.32	206.52
8570.000	900.00	.00	.00	122.17	2706.00	130.91	.00	131.16	35.44	6.05	1562.62	454.56
8570.000	900.00	.00	.00	122.17	3415.00	131.56	.00	131.80	33.67	6.24	1900.74	588.49
8570.000	900.00	.00	.00	122.17	5862.00	133.29	.00	133.55	33.11	7.05	2838.90	1018.74
9370.000	800.00	.00	.00	126.30	1361.00	132.74	.00	132.96	41.80	5.15	756.95	210.32
9370.000	800.00	.00	.00	126.30	2706.00	134.25	.00	134.58	51.30	6.80	1202.18	377.79
9370.000	800.00	.00	.00	126.30	3415.00	134.87	.00	135.26	55.12	7.47	1402.66	459.98
9370.000	800.00	.00	.00	126.30	5862.00	136.64	.00	137.17	61.36	9.14	2052.72	748.34
9987.000	617.00	.00	.00	129.50	1361.00	135.74	.00	136.23	64.20	6.55	541.57	169.86
9987.000	617.00	.00	.00	129.50	2706.00	137.54	.00	138.08	59.00	7.68	1109.65	352.30
9987.000	617.00	.00	.00	129.50	3415.00	138.25	.00	138.79	56.50	8.02	1392.26	454.33
9987.000	617.00	.00	.00	129.50	5862.00	140.15	.00	140.71	51.97	8.93	2320.90	813.18
10487.000	500.00	.00	.00	132.07	1361.00	138.86	.00	139.59	66.61	7.11	261.11	166.75
10487.000	500.00	.00	.00	132.07	2706.00	140.63	.00	142.13	97.52	10.35	395.96	274.02
10487.000	500.00	.00	.00	132.07	3415.00	141.22	.00	143.19	117.20	11.95	446.60	315.45
10487.000	500.00	.00	.00	132.07	5862.00	142.90	142.90	146.47	169.32	16.33	606.88	450.49
10615.000	128.00	.00	.00	133.02	1361.00	139.70	.00	140.64	82.42	7.81	174.34	149.91
10615.000	128.00	.00	.00	133.02	2706.00	141.73	.00	143.71	113.16	11.30	239.43	254.38
10615.000	128.00	.00	.00	133.02	3415.00	142.49	.00	145.09	130.70	12.95	263.66	298.71
10615.000	128.00	.00	.00	133.02	5862.00	146.12	.00	148.29	68.41	12.15	895.96	708.72
10725.000	110.00	151.72	141.15	133.02	1361.00	140.00	.00	140.85	68.60	7.39	184.21	164.32
10725.000	110.00	151.72	141.15	133.02	2706.00	144.68	.00	145.70	37.34	8.10	333.92	442.85
10725.000	110.00	151.72	141.15	133.02	3415.00	147.85	.00	148.81	24.48	7.64	435.81	690.27
10725.000	110.00	151.72	141.15	133.02	5862.00	153.95	.00	154.16	6.24	5.06	4761.57	2347.31

SECNO	XLCH	ELTRD	ELLC	ELKIN	Q	CVSEL	CRWS	EG	10K*S	VCH	AREA	.0IK
10757.000	32.00	.00	.00	134.60	1361.00	140.22	.00	141.16	97.68	8.02	223.28	137.70
10757.000	32.00	.00	.00	134.00	2706.00	145.23	.00	145.91	30.86	7.16	648.65	487.14
10757.000	32.00	.00	.00	134.00	3415.00	148.52	.00	149.01	16.47	6.32	1040.72	841.48
10757.000	32.00	.00	.00	134.00	5862.00	153.93	.00	154.23	8.53	5.72	3970.76	2006.84
10787.000	30.00	.00	.00	134.48	1361.00	140.53	.00	141.59	159.47	8.26	164.68	107.77
10787.000	30.00	.00	.00	134.48	2706.00	145.44	.00	146.05	44.18	6.78	753.64	407.14
10787.000	30.00	.00	.00	134.48	3415.00	148.91	.00	149.14	14.49	4.76	1885.52	897.29
10787.000	30.00	.00	.00	134.48	5862.00	154.18	.00	154.30	6.85	4.11	4606.05	2239.26
10812.000	25.00	145.70	142.06	134.48	1361.00	141.40	.00	141.93	43.79	5.87	231.68	205.69
10812.000	25.00	145.70	142.06	134.48	2706.00	146.93	.00	147.12	10.16	4.24	1514.98	848.92
10812.000	25.00	145.70	142.06	134.48	3415.00	149.18	.00	149.33	7.14	3.98	2337.21	1277.76
10812.000	25.00	145.70	142.06	134.48	5862.00	154.25	.00	154.36	4.63	3.92	5002.25	2723.92
10847.000	35.00	.00	.00	134.67	1361.00	141.50	.00	142.28	102.89	7.11	192.01	134.18
10847.000	35.00	.00	.00	134.67	2706.00	146.90	.00	147.25	24.17	5.44	1097.57	550.41
10847.000	35.00	.00	.00	134.67	3415.00	149.18	.00	149.40	14.06	4.71	1913.78	910.83
10847.000	35.00	.00	.00	134.67	5862.00	154.26	.00	154.39	7.07	4.16	4532.21	2204.87
11230.000	382.50	.00	.00	136.17	1361.00	144.08	.00	144.31	30.02	4.72	733.78	248.41
11230.000	382.50	.00	.00	136.17	2706.00	147.83	.00	147.97	13.73	4.31	1878.99	730.32
11230.000	382.50	.00	.00	136.17	3415.00	149.75	.00	149.86	9.58	4.03	2674.25	1103.49
11230.000	382.50	.00	.00	136.17	5862.00	154.56	.00	154.64	5.57	3.83	5081.96	2484.39
13037.000	1807.00	.00	.00	139.43	1361.00	147.69	.00	147.77	13.24	3.40	1483.62	373.97
13037.000	1807.00	.00	.00	139.43	2706.00	150.20	.00	150.28	11.93	3.90	2771.61	783.38
13037.000	1807.00	.00	.00	139.43	3415.00	151.51	.00	151.58	9.40	3.76	3552.95	1113.78
13037.000	1807.00	.00	.00	139.43	5862.00	155.60	.00	155.65	5.56	3.55	6216.73	2486.15
14337.000	1300.00	.00	.00	144.53	642.00	149.86	.00	149.95	29.70	3.09	586.36	117.80
14337.000	1300.00	.00	.00	144.53	1359.00	151.74	.00	151.77	10.22	2.46	1691.44	425.08
14337.000	1300.00	.00	.00	144.53	1774.00	152.69	.00	152.72	7.51	2.36	2271.30	647.51
14337.000	1300.00	.00	.00	144.53	3295.00	156.23	.00	156.25	3.56	2.15	4512.53	1797.29
14987.000	650.00	.00	.00	147.10	642.00	151.60	.00	151.66	23.17	2.86	613.95	133.38
14987.000	650.00	.00	.00	147.10	1359.00	152.70	.00	152.78	24.58	3.56	1027.05	274.12
14987.000	650.00	.00	.00	147.10	1774.00	153.43	.00	153.51	20.58	3.61	1300.93	391.03
14987.000	650.00	.00	.00	147.10	3295.00	156.55	.00	156.61	9.28	3.32	2588.98	1081.65
15487.000	500.00	.00	.00	149.05	642.00	153.34	.00	153.60	69.56	4.80	254.66	76.98
15487.000	500.00	.00	.00	149.05	1359.00	154.53	.00	154.93	79.83	6.35	460.74	152.10
15487.000	500.00	.00	.00	149.05	1774.00	155.02	.00	155.50	85.54	7.05	561.86	191.81
15487.000	500.00	.00	.00	149.05	3295.00	157.24	.00	157.67	56.19	7.33	1129.00	439.56
16287.000	800.00	.00	.00	152.20	642.00	157.19	.00	157.36	33.46	3.52	303.38	110.99
16287.000	800.00	.00	.00	152.20	1359.00	158.57	.00	158.78	31.55	4.29	720.93	241.95
16287.000	800.00	.00	.00	152.20	1774.00	159.16	.00	159.37	30.54	4.56	968.49	321.02
16287.000	800.00	.00	.00	152.20	3295.00	160.68	.00	160.91	29.94	5.32	1775.30	602.17

SECHO	XLCH	ELTRD	ELLC	ELMIN	Q	CVSEL	CRINS	EG	10K*S	VCH	AREA	.01K
16887.000	600.00	.00	.00	154.55	642.00	159.41	.00	159.47	36.65	2.43	562.91	106.05
16887.000	600.00	.00	.00	154.55	1359.00	160.69	.00	160.76	33.85	2.83	1206.77	233.59
16887.000	600.00	.00	.00	154.55	1774.00	161.24	.00	161.30	32.99	2.99	1502.35	308.86
16887.000	600.00	.00	.00	154.55	3295.00	162.75	.00	162.83	33.23	3.52	2355.77	571.62
17287.000	400.00	.00	.00	156.12	642.00	161.19	.00	161.30	57.15	2.95	302.56	84.93
17287.000	400.00	.00	.00	156.12	1359.00	162.52	.00	162.72	72.32	4.07	499.28	159.81
17287.000	400.00	.00	.00	156.12	1774.00	163.08	.00	163.32	79.39	4.58	594.15	199.10
17287.000	400.00	.00	.00	156.12	3295.00	164.66	.00	165.01	92.36	5.83	1002.66	342.86
18417.000	1130.00	.00	.00	160.56	642.00	166.51	.00	166.58	39.42	2.82	473.22	102.26
18417.000	1130.00	.00	.00	160.56	1359.00	168.22	.00	168.30	36.45	3.35	927.05	225.09
18417.000	1130.00	.00	.00	160.56	1774.00	168.92	.00	169.01	35.34	3.54	1157.90	298.47
18417.000	1130.00	.00	.00	160.56	3295.00	170.83	.00	170.93	34.23	4.38	1894.44	563.18
19017.000	600.00	.00	.00	162.91	642.00	167.80	.00	167.83	12.78	1.58	759.14	179.55
19017.000	600.00	.00	.00	162.91	1359.00	169.47	.00	169.51	12.69	1.96	1450.29	361.52
19017.000	600.00	.00	.00	162.91	1774.00	170.17	.00	170.21	12.85	2.12	1807.94	494.96
19017.000	600.00	.00	.00	162.91	3295.00	172.09	.00	172.14	13.38	2.55	2836.68	900.69
19417.000	400.00	.00	.00	164.48	642.00	168.60	.00	168.64	37.55	1.99	562.83	104.77
19417.000	400.00	.00	.00	164.48	1359.00	170.13	.00	170.17	23.23	2.10	1247.74	281.94
19417.000	400.00	.00	.00	164.48	1774.00	170.81	.00	170.85	20.60	2.17	1606.56	390.90
19417.000	400.00	.00	.00	164.48	3295.00	172.69	.00	172.74	17.55	2.49	2688.77	786.51
19892.000	475.00	.00	.00	166.34	642.00	170.36	.00	170.40	35.65	2.11	640.87	107.33
19892.000	475.00	.00	.00	166.34	1359.00	171.47	.00	171.52	33.96	2.52	1156.81	233.21
19892.000	475.00	.00	.00	166.34	1774.00	172.03	.00	172.08	32.21	2.67	1421.87	312.57
19892.000	475.00	.00	.00	166.34	3295.00	173.75	.00	173.81	28.20	3.06	2271.07	620.49
20392.000	500.00	.00	.00	168.31	642.00	173.44	.00	173.76	153.08	4.71	173.49	51.89
20392.000	500.00	.00	.00	168.31	1359.00	174.62	.00	175.23	217.93	6.78	296.44	92.06
20392.000	500.00	.00	.00	168.31	1774.00	175.08	.00	175.84	251.43	7.73	354.45	111.88
20392.000	500.00	.00	.00	168.31	3295.00	176.40	175.85	177.53	312.53	10.01	618.96	186.35
20532.000	140.00	.00	.00	169.10	547.00	175.01	.00	175.20	67.18	3.55	154.21	66.74
20532.000	140.00	.00	.00	169.10	1172.00	176.66	.00	176.86	59.60	4.13	474.02	151.81
20532.000	140.00	.00	.00	169.10	1542.00	177.37	.00	177.59	59.54	4.45	680.48	199.83
20532.000	140.00	.00	.00	169.10	2913.00	179.18	.00	179.39	53.85	4.95	1445.74	396.97
20561.000	29.00	177.69	176.21	169.10	547.00	175.03	.00	175.22	66.16	3.53	154.52	67.25
20561.000	29.00	177.69	176.21	169.10	1172.00	177.29	.00	177.68	76.68	5.01	234.12	133.84
20561.000	29.00	177.69	176.21	169.10	1542.00	178.30	.00	178.40	28.06	3.33	1242.69	291.09
20561.000	29.00	177.69	176.21	169.10	2913.00	179.48	.00	179.66	46.17	4.69	1784.88	428.71
20596.000	35.00	.00	.00	169.11	547.00	175.31	.00	175.43	42.76	2.95	282.42	83.65
20596.000	35.00	.00	.00	169.11	1172.00	177.79	.00	177.92	30.46	3.31	836.02	212.37
20596.000	35.00	.00	.00	169.11	1542.00	178.39	.00	178.53	34.40	3.71	1082.59	262.89
20596.000	35.00	.00	.00	169.11	2913.00	179.63	.00	179.86	53.40	5.10	1654.87	398.64

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J

K

BUIES CREEK

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CUSEL	DIFHSP	DIFWSX	DIFKWS	TOPPID	KLCH
360.000	1379.00	97.94	.00	.00	.00	51.48	.00
360.000	2739.00	100.99	3.05	.09	.00	70.76	.00
360.000	3454.00	102.16	1.17	.00	.00	78.95	.00
360.000	5921.00	104.90	2.74	.00	.00	133.91	.00
2640.000	1379.00	106.10	.00	8.16	.00	114.94	2280.00
2640.000	2739.00	108.50	2.48	7.59	.00	239.63	2280.00
2640.000	3454.00	109.56	.98	7.40	.00	305.96	2280.00
2640.000	5921.00	111.95	2.39	7.05	.00	465.10	2280.00
4520.000	1379.00	112.17	.00	6.07	.00	528.39	1880.00
4520.000	2739.00	113.76	1.59	5.18	.00	778.52	1880.00
4520.000	3454.00	114.42	.66	4.86	.00	882.37	1880.00
4520.000	5921.00	116.19	1.77	4.24	.00	1160.04	1880.00
5340.000	1379.00	115.01	.00	2.84	.00	137.43	820.00
5340.000	2739.00	116.34	1.32	2.58	.00	212.38	820.00
5340.000	3454.00	116.86	.52	2.44	.00	242.17	820.00
5340.000	5921.00	118.34	1.48	2.14	.00	326.26	820.00
6120.000	1379.00	118.41	.00	3.39	.00	112.72	780.00
6120.000	2739.00	120.49	2.08	4.15	.00	249.60	780.00
6120.000	3454.00	121.26	.77	4.40	.00	339.55	780.00
6120.000	5921.00	123.15	1.89	4.81	.00	560.35	780.00
6765.500	1379.00	120.37	.00	1.96	.00	827.31	646.00
6765.500	2739.00	122.45	2.09	1.97	.00	954.78	646.00
6765.500	3454.00	123.24	.78	1.98	.00	1002.47	646.00
6765.500	5921.00	125.11	1.87	1.96	.00	1116.47	646.00
7465.500	61.00	122.37	.00	2.01	.00	219.41	700.00
7465.500	2706.00	124.11	1.74	1.66	.00	286.60	700.00
7465.500	3415.00	124.87	.76	1.63	.00	315.77	700.00
7465.500	5862.00	126.90	2.03	1.79	.00	393.88	700.00
7529.500	1361.00	122.75	.00	.38	.00	220.30	64.00
7529.500	2706.00	124.55	1.80	.44	.00	289.86	64.00
7529.500	3415.00	125.31	.76	.44	.00	319.06	64.00
7529.500	5862.00	127.31	2.01	.42	.00	396.44	64.00
7570.500	1361.00	128.38	.00	5.63	.00	437.81	41.00
7570.500	2706.00	129.32	.94	4.77	.00	475.94	41.00
7570.500	3415.00	129.67	.35	4.37	.00	487.37	41.00
7570.500	5862.00	130.54	.87	3.23	.00	521.14	41.00

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SECH0	Q	CVSEL	DIFHSP	DIFVSK	DIFKVS	TOPVID	XLCH
7586.500	1361.00	128.38	.00	.00	.00	431.44	16.00
7586.500	2706.00	129.32	.94	.00	.00	467.73	16.00
7586.500	3415.00	129.67	.35	.00	.00	481.13	16.00
7586.500	5862.00	130.54	.87	-.01	.00	514.70	16.00
7670.000	1361.00	128.39	.00	.01	.00	475.37	83.50
7670.000	2706.00	129.36	.97	.04	.00	538.15	83.50
7670.000	3415.00	129.72	.36	.05	.00	561.93	83.50
7670.000	5862.00	130.66	.94	.12	.00	597.18	83.50
8570.000	1361.00	129.23	.00	.83	.00	400.22	900.00
8570.000	2706.00	130.91	1.68	1.55	.00	510.83	900.00
8570.000	3415.00	131.56	.65	1.83	.00	525.84	900.00
8570.000	5862.00	133.29	1.73	2.62	.00	565.40	900.00
9370.000	1361.00	132.74	.00	3.51	.00	271.23	800.00
9370.000	2706.00	134.25	1.51	3.34	.00	318.81	800.00
9370.000	3415.00	134.87	.62	3.31	.00	338.05	800.00
9370.000	5862.00	136.64	1.77	3.35	.00	394.04	800.00
9987.000	1361.00	135.74	.00	3.00	.00	257.39	617.00
9987.000	2706.00	137.54	1.79	3.29	.00	376.38	617.00
9987.000	3415.00	138.25	.71	3.38	.00	423.25	617.00
9987.000	5862.00	140.15	1.90	3.51	.00	544.11	617.00
10487.000	1361.00	138.86	.00	3.12	.00	68.78	500.00
10487.000	2706.00	143.63	1.77	3.09	.00	83.40	500.00
10487.000	3415.00	141.22	.59	2.97	.00	88.26	500.00
10487.000	5862.00	142.90	1.68	2.75	.00	102.15	500.00
10615.000	1361.00	139.70	.00	.84	.00	32.00	128.00
10615.000	2706.00	141.73	2.03	1.10	.00	32.00	128.00
10615.000	3415.00	142.49	.76	1.27	.00	32.00	128.00
10615.000	5862.00	146.42	3.98	3.51	.00	123.31	128.00
10725.000	1361.00	140.00	.00	.31	.00	32.00	110.00
10725.000	2706.00	144.68	4.68	2.95	.00	32.00	110.00
10725.000	3415.00	147.86	3.18	5.37	.00	32.00	110.00
10725.000	5862.00	153.95	6.09	7.53	.00	806.55	110.00
10757.000	1361.00	140.22	.00	.21	.00	64.08	32.00
10757.000	2706.00	145.23	5.01	.55	.00	105.47	32.00
10757.000	3415.00	148.52	3.29	.66	.00	142.87	32.00
10757.000	5862.00	153.93	5.41	-.02	.00	779.62	32.00
10787.000	1361.00	140.53	.00	.31	.00	33.64	30.00
10787.000	2706.00	145.44	4.92	.21	.00	234.54	30.00
10787.000	3415.00	148.91	3.47	.39	.00	388.13	30.00
10787.000	5862.00	154.13	5.27	.25	.00	721.94	30.00

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SECNO	D	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
10812.000	1361.00	141.40	.00	.87	.00	35.00	25.00
10812.000	2706.00	146.93	5.53	1.48	.00	323.68	25.00
10812.000	3415.00	149.18	2.25	.27	.00	394.93	25.00
10812.000	5862.00	154.25	5.07	.07	.00	727.80	25.00
10847.000	1361.00	141.50	.00	.10	.00	40.88	35.00
10847.000	2706.00	146.90	5.40	-.03	.00	310.46	35.00
10847.000	3415.00	149.18	2.28	.00	.00	389.99	35.00
10847.000	5862.00	154.26	5.08	.01	.00	712.96	35.00
11230.000	1361.00	147.08	.00	2.58	.00	233.25	382.50
11230.000	2706.00	147.83	3.75	.94	.00	376.99	382.50
11230.000	3415.00	149.75	1.92	.58	.00	450.60	382.50
11230.000	5862.00	154.56	4.81	.30	.00	546.66	382.50
13037.000	1361.00	147.69	.00	3.61	.00	432.79	1807.00
13037.000	2706.00	150.20	2.51	2.36	.00	583.97	1807.00
13037.000	3415.00	151.51	1.31	1.75	.00	610.17	1807.00
13037.000	5862.00	155.60	4.09	1.04	.00	691.98	1807.00
14337.000	642.00	149.86	.00	2.17	.00	541.91	1300.00
14337.000	1359.00	151.74	1.88	1.54	.00	600.85	1300.00
14337.000	1774.00	152.67	.96	1.18	.00	612.32	1300.00
14337.000	3295.00	156.23	3.54	.63	.00	654.77	1300.00
14987.000	642.00	151.60	.00	1.74	.00	369.19	650.00
14987.000	1359.00	152.70	1.10	.96	.00	382.38	650.00
14987.000	1774.00	153.43	.73	.73	.00	391.12	650.00
14987.000	3295.00	156.55	3.12	.32	.00	428.60	650.00
15487.000	642.00	153.34	.00	1.74	.00	150.67	500.00
15487.000	1359.00	154.53	1.19	1.83	.00	195.27	500.00
15487.000	1774.00	155.02	.50	1.60	.00	213.78	500.00
15487.000	3295.00	157.24	2.22	.69	.00	296.91	500.00
16287.000	642.00	157.19	.00	3.85	.00	216.22	800.00
16287.000	1359.00	158.57	1.38	4.04	.00	386.11	800.00
16287.000	1774.00	159.16	.59	4.14	.00	457.95	800.00
16287.000	3295.00	160.68	1.51	3.43	.00	572.84	800.00
16887.000	642.00	159.41	.00	2.22	.00	410.97	600.00
16887.000	1359.00	160.69	1.29	2.12	.00	538.89	600.00
16887.000	1774.00	161.24	.54	2.07	.00	549.75	600.00
16887.000	3295.00	162.75	1.52	2.08	.00	579.96	600.00
17287.000	642.00	161.19	.00	1.78	.00	131.56	400.00
17287.000	1359.00	162.52	1.33	1.83	.00	163.76	400.00
17287.000	1774.00	163.08	.56	1.84	.00	198.52	400.00
17287.000	3295.00	164.66	1.58	1.90	.00	310.89	400.00

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SECNO	Q	CWSEL	DIFWSP	DIFWXS	DIFKWS	TOPWID	XLCH
18417.000	642.00	166.51	.00	5.32	.00	220.86	1130.00
18417.000	1359.00	168.22	1.71	5.70	.00	308.80	1130.00
18417.000	1774.00	168.92	.71	5.85	.00	344.99	1130.00
18417.000	3295.00	170.83	1.90	6.17	.00	411.61	1130.00
19017.000	642.00	167.80	.00	1.29	.00	545.02	600.00
19017.000	1359.00	169.47	1.67	1.25	.00	482.23	600.00
19017.000	1774.00	170.17	.70	1.25	.00	527.00	600.00
19017.000	3295.00	172.09	1.92	1.26	.00	548.05	600.00
19417.000	642.00	168.60	.00	.80	.00	358.97	400.00
19417.000	1359.00	170.13	1.54	.66	.00	523.95	400.00
19417.000	1774.00	170.81	.67	.63	.00	544.12	400.00
19417.000	3295.00	172.69	1.89	.60	.00	600.88	400.00
19892.000	642.00	170.36	.00	1.76	.00	455.34	475.00
19892.000	1359.00	171.47	1.11	1.34	.00	472.03	475.00
19892.000	1774.00	172.03	.56	1.22	.00	480.38	475.00
19892.000	3295.00	173.75	1.72	1.05	.00	506.20	475.00
20392.000	642.00	173.44	.00	3.08	.00	87.00	500.00
20392.000	1359.00	174.62	1.19	3.15	.00	120.72	500.00
20392.000	1774.00	175.08	.66	3.05	.00	133.47	500.00
20392.000	3295.00	176.40	1.32	2.66	.00	331.95	500.00
20532.000	547.00	175.01	.00	1.57	.00	35.00	140.00
20532.000	1172.00	176.66	1.65	2.03	.00	200.45	140.00
20532.000	1542.00	177.37	.72	2.29	.00	357.45	140.00
20532.000	2913.00	179.18	1.81	2.77	.00	468.33	140.00
20561.000	547.00	175.03	.00	.02	.00	35.00	29.00
20561.000	1172.00	177.29	2.26	.63	.00	35.00	29.00
20561.000	1542.00	178.30	1.01	.93	.00	442.47	29.00
20561.000	2913.00	179.48	1.18	.30	.00	477.27	29.00
20596.000	547.00	175.31	.00	.28	.00	117.43	35.00
20596.000	1172.00	177.79	2.49	.51	.00	392.44	35.00
20596.000	1542.00	178.39	.59	.09	.00	436.80	35.00
20596.000	2913.00	179.63	1.24	.15	.00	481.32	35.00

A  
 K M  
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11523

THIS RUN EXECUTED 08-17-87 09:16:23

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 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984  
 ERROR CORR - 01,02,03,04,05,06  
 MODIFICATION - 50,51,52,53,54,55,56  
 IBM-PC-XT VERSION AUGUST 1985  
 \*\*\*\*\*

C  
 T1 HAYES, SEAY, MATTERN & MATTERN MARNETT CO, NC FIS  
 T2 FILENAME: BUIES.HEC ENG: SKE ET:WGH/EKL COMM. NO 2340A  
 T3 BUIES CREEK DATE: 8/17/87 100-YEAR EVENT

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	4.	0.	0.	.003700	.00	.0	0.	102.160	.000
J2	NPROF	IPLOT	PRFVS	%SECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	110.000	200.000	.000	.000	.000	.000	.000	.000	.000	.000
QT	6.000	1379.000	2739.000	3454.000	5921.000	.000	3454.000	.000	.000	.000
NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
NH	6.000	1.000	4510.000	.205	4760.000	.110	4957.500	.048	5042.500	.140
NH	5225.000	.224	5320.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	9.410	.000	.000	.000

ON THE QT CARDS, THE DISCHARGES ARE AS FOLLOWS:

FIELD #2	#3	#4	#5
Q# 10-YEAR	50-YEAR	100-YEAR	500-YEAR

Cross Section A

X1	360.000	28.000	4957.500	5042.500	360.000	360.000	360.000	.000	.000	.000
GR	120.000	4170.000	112.500	4510.000	115.000	4640.000	112.690	4760.000	110.000	4900.000
GR	104.640	4957.500	100.300	4967.500	97.360	4977.500	95.260	4982.000	92.670	4983.000
GR	91.070	4989.000	90.050	4994.000	91.120	4999.000	91.680	5004.000	91.800	5009.000
GR	92.280	5014.000	92.690	5019.000	95.350	5022.500	98.190	5027.500	100.060	5032.500
GR	102.210	5042.500	103.290	5052.500	104.070	5072.500	105.100	5092.500	105.550	5107.500
GR	110.000	5200.000	112.080	5225.000	120.000	5320.000	.000	.000	.000	.000



NH	6.000	1.000	4520.000	.205	4740.000	.140	4976.500	.048	5023.500	.080
NH	5190.000	.170	5220.000	.000	.000	.000	.000	.000	.000	.000

Cross Section B

X1	2640.000	23.000	4976.500	5023.500	2360.000	2225.000	2280.000	.000	.000	.000
GR	120.000	4260.000	114.800	4520.000	110.400	4740.000	110.000	4760.000	105.200	4948.500
GR	104.990	4958.500	104.350	4968.500	103.690	4976.500	100.350	4983.500	98.670	4988.500
GR	98.570	4993.500	99.660	4998.500	99.000	5003.500	99.130	5008.500	100.470	5012.500
GR	103.110	5013.500	105.310	5023.500	107.030	5033.500	108.820	5058.500	109.580	5083.500
GR	110.440	5108.500	117.000	5190.000	120.000	5220.000	.000	.000	.000	.000

Cross Section C

NH	8.000	100.000	4410.000	1.000	4480.000	.500	4630.000	.320	4967.000	.048
NH	5033.000	.080	5350.000	.170	5570.000	1.000	5820.000	.000	.000	.000

  

X1	4520.000	25.000	4967.000	5033.000	1675.000	1750.000	1880.000	.000	.000	.000
GR	140.000	3540.000	130.000	3580.000	120.000	3640.000	113.790	4410.000	113.230	4480.000
GR	112.020	4650.000	110.000	4880.000	109.590	4953.000	109.490	4963.000	109.790	4967.000
GR	108.590	4973.000	107.290	4974.000	106.190	4979.000	106.090	4984.000	105.590	4989.000
GR	105.590	4994.000	107.190	5000.000	109.390	5003.000	110.590	5033.000	109.890	5063.000
GR	118.500	5350.000	120.000	5406.000	129.440	5570.000	130.000	5580.000	140.000	5820.000

  

NH	8.000	1.000	4460.000	.195	4750.000	.170	4969.750	.048	5030.250	.080
NH	5260.000	.080	5410.000	.170	5620.000	1.000	6670.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	5.410	.000	.000	.000
X1	5340.000	20.000	4969.750	5030.250	770.000	810.000	820.000	.000	.000	.000
GR	150.000	4020.000	140.000	4100.000	130.000	4250.000	125.710	4460.000	120.000	4740.000
GR	119.690	4750.000	112.870	4969.750	109.550	4979.850	108.570	4989.950	109.550	4999.950
GR	111.470	5010.050	113.150	5020.150	114.700	5030.250	120.000	5100.000	121.060	5260.000
GR	122.660	5410.000	124.890	5620.000	130.000	6100.000	140.000	6450.000	150.000	6670.000

  

NH	7.000	.195	4750.000	.170	4972.500	.048	5027.500	.080	5260.000	.080
NH	5410.000	.170	5620.000	1.000	6560.000	.000	.000	.000	.000	.000

Cross Section D

X1	6120.000	24.000	4972.500	5027.500	780.000	800.000	780.000	.000	.000	.000
GR	140.000	4520.000	130.000	4580.000	124.330	4750.000	120.000	4880.000	116.060	4962.500
GR	115.960	4972.500	113.660	4975.500	112.660	4978.500	112.360	4983.500	111.560	4988.500
GR	111.560	4993.500	111.960	4998.500	111.960	5003.500	113.560	5008.500	114.560	5009.500
GR	116.060	5017.500	118.060	5027.500	120.060	5057.500	120.060	5077.500	122.160	5260.000
GR	123.890	5410.000	126.310	5620.000	130.000	5940.000	140.000	6560.000	.000	.000

  

NH	6.000	1.000	4460.000	.840	4750.000	.250	4981.850	.048	5018.150	.080
NH	5260.000	.170	5340.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	9.110	.000	4670.000	5020.000
X1	6765.500	18.000	4981.850	5018.150	631.000	631.000	631.000	.000	.000	.000
GR	150.000	3265.000	140.000	3535.000	130.000	3755.000	120.000	4275.000	119.050	4460.000
GR	117.560	4750.000	116.370	4981.850	114.550	4987.950	113.970	4993.950	114.140	5000.050
GR	114.830	5006.050	116.390	5012.150	118.290	5018.150	120.000	5080.000	130.000	5170.000
GR	140.000	5240.000	142.000	5260.000	150.000	5340.000	.000	.000	.000	.000

QT	6.000	1361.000	2706.000	3415.000	5862.000	.000	3415.000	.000	5220.000	.000
NH	6.000	.195	4670.000	.155	4992.000	.050	5008.000	.190	.000	.251
NH	5350.000	1.000	5371.000	.000	.000	.000	.000	.000	.000	5008.000
ET	.000	.000	.000	.000	.000	.000	9.110	.000	4758.000	.000
X1	7465.500	17.000	4992.000	5008.000	684.000	684.000	700.000	.000	.000	.000
GR	149.550	4071.000	139.650	4311.000	4551.000	4551.000	126.250	4670.000	117.060	4992.000
GR	116.710	4995.380	116.580	5001.000	5007.000	5007.000	117.140	5007.380	117.410	5007.750
GR	118.070	5008.000	118.070	5010.000	5051.000	5051.000	139.650	5201.000	140.770	5220.000
GR	148.410	5350.000	149.650	5371.000	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	6.000	.195	4670.000	.155	4992.000	.050	5008.000	.190	5220.000	.251
NH	5350.000	1.000	5371.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	9.110	.000	4783.000	.000
X1	7529.500	17.000	4992.000	5008.000	64.000	64.000	64.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	121.840	122.540	.000
GR	150.000	4071.000	140.000	4311.000	130.000	4551.000	126.600	4670.000	117.410	4992.000
GR	117.060	4995.380	116.930	5001.000	117.420	5007.000	117.490	5007.380	117.760	5007.750
GR	118.420	5008.000	118.420	5010.000	130.000	5051.000	140.000	5201.000	141.120	5220.000
GR	148.760	5350.000	150.000	5371.000	.000	.000	.000	.000	.000	.000
NH	6.000	.195	4670.000	.155	4992.000	.053	5008.000	.190	5220.000	.251
NH	5350.000	1.000	5371.000	.000	.000	.000	.000	.000	.000	.000
SB	1.250	1.950	2.600	.000	9.000	4.000	35.000	.070	116.930	.000
ET	.000	.000	.000	.000	.000	.000	20.410	.000	.000	.000
SR 1519										
X1	7570.500	33.000	4992.000	5008.000	41.000	41.000	41.000	.000	.000	.000
X2	.000	.000	1.000	122.930	126.260	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	126.260	126.650	.000
BT	.000	4071.000	150.000	150.000	4311.000	140.000	140.000	4551.000	130.000	130.000
BT	.000	4670.000	128.990	126.600	4992.000	126.260	117.410	4993.990	126.310	117.010
BT	.000	4994.000	126.310	118.650	4994.250	126.320	118.920	4994.630	126.320	118.990
BT	.000	4995.380	126.340	118.990	4995.750	126.350	118.650	4995.990	126.360	117.990
BT	.000	4996.000	126.360	117.990	4998.000	126.410	119.930	4998.750	126.430	121.910
BT	.000	4999.880	126.450	122.710	5001.000	126.460	122.930	5002.130	122.710	122.710
BT	.000	5003.250	126.540	121.910	5004.000	126.540	119.930	5006.000	126.600	118.420
BT	.000	5006.250	126.610	119.080	5006.630	126.620	119.340	5007.000	126.630	119.420
BT	.000	5007.380	126.640	119.350	5007.750	126.650	119.080	5008.000	126.650	118.420
BT	.000	5010.000	126.700	118.420	5051.000	130.000	130.000	5201.000	140.000	140.000
BT	.000	5220.000	141.120	141.120	5350.000	148.760	148.760	5371.000	150.000	150.000
GR	150.000	4071.000	140.000	4311.000	130.000	4551.000	126.600	4670.000	117.410	4992.000
GR	117.010	4993.990	117.990	4994.000	117.330	4994.250	117.060	4994.630	117.060	4995.380
GR	117.330	4995.750	117.990	4995.990	117.990	4996.000	119.930	4998.000	117.940	4998.750
GR	117.150	4999.880	116.930	5001.000	117.150	5002.130	117.950	5003.250	119.930	5004.000
GR	118.420	5006.000	117.760	5006.250	117.490	5006.630	117.420	5007.000	117.490	5007.380
GR	117.760	5007.750	118.420	5008.000	118.420	5010.000	130.000	5051.000	140.000	5201.000
GR	141.120	5220.000	148.760	5350.000	150.000	5371.000	.000	.000	.000	.990



NH	7.000	1.000	4710.000	.220	4884.000	.180	4984.000	.053	5016.000	.180
NH	5190.000	.251	5360.000	1.000	5880.000	.000	.000	.000	.000	.000
ET		.000	.000	.000	.000	.000	4.410	.000	.000	.000
X1	10487.000	41.000	4984.000	5016.000	522.000	500.000	500.000	.000	.000	.000
GR	179.050	4270.000	169.050	4470.000	159.050	4590.000	149.050	4660.000	148.660	4710.000
GR	148.090	4764.000	147.710	4634.000	147.320	4884.000	146.360	4934.000	134.910	4983.980
GR	134.910	4983.990	134.910	4984.000	134.910	4984.010	134.250	4989.000	133.720	4994.250
GR	133.710	4994.260	133.690	4994.500	133.660	4994.750	133.660	4994.760	131.060	5000.000
GR	132.460	5005.250	132.460	5005.260	132.430	5005.500	132.410	5005.750	132.410	5005.760
GR	142.570	5011.000	133.820	5015.970	133.820	5015.980	133.820	5015.990	133.830	5016.000
GR	148.800	5216.000	146.580	5066.000	148.650	5116.000	148.710	5166.000	148.760	5190.000
GR	189.050	5880.000	149.050	5360.000	159.050	5560.000	169.150	5630.000	179.050	5780.000
GR			.000	.000	.000	.000	.000	.000	.000	.000
HC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	7.000	1.000	4710.000	.220	4884.000	.180	4984.000	.053	5016.000	.180
NH	5190.000	.251	5360.000	1.000	5880.000	.000	.000	.000	.000	.000
X1	10415.000	41.000	4984.000	5016.000	128.000	128.000	128.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	144.080	.000	.000
GR	180.000	4270.000	170.000	4470.000	160.000	4590.000	150.000	4660.000	149.610	4710.000
GR	149.040	4784.000	148.660	4834.000	148.270	4884.000	147.330	4934.000	135.860	4983.980
GR	135.860	4983.990	135.860	4984.000	135.860	4984.010	135.200	4989.000	134.670	4994.250
GR	134.660	4994.260	134.640	4994.500	134.610	4994.750	134.610	4994.760	134.010	5000.000
GR	133.410	5005.250	133.410	5005.260	133.380	5005.500	133.360	5005.750	133.360	5005.760
GR	133.020	5011.000	134.770	5015.970	134.770	5015.980	134.770	5015.990	134.780	5016.000
GR	143.520	5050.000	147.630	5066.000	149.580	5116.000	149.670	5166.000	149.710	5190.000
GR	149.750	5216.000	150.000	5360.000	160.000	5560.000	170.000	5630.000	180.000	5780.000
GR	190.000	5880.000	.000	.000	.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4710.000	.220	4884.000	.180	4984.000	.053	5016.000	.180
NH	5190.000	.251	5360.000	1.000	5880.000	.000	.000	.000	.000	.000
SB	1.250	2.080	2.600	.000	32.000	2.000	244.000	.000	133.020	133.020
X1	10725.000	41.000	4984.000	5016.000	110.000	110.000	110.000	.000	.000	.000
X2	.000	.000	1.000	141.150	151.720	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	149.610	.000	.000
BT	-41.000	4270.000	180.000	180.000	4470.000	170.000	170.000	4590.000	150.000	160.000
BT	.000	4660.000	157.620	150.000	4710.000	155.930	149.610	4784.000	153.400	149.040
BT	.000	4834.000	151.720	148.660	4884.000	151.810	148.270	4934.000	151.980	147.330
BT	.000	4983.980	152.300	135.860	4983.990	152.300	135.860	4984.000	152.300	135.860
BT	.000	4994.010	152.300	140.930	4989.000	152.330	140.960	4994.250	152.370	141.000
BT	.000	4994.260	152.370	134.660	4994.500	152.370	134.640	4994.750	152.370	134.610
BT	.000	4994.760	152.370	141.000	5000.000	152.410	141.040	5005.250	152.450	141.080
BT	.000	5005.260	152.450	133.410	5005.500	152.450	133.380	5005.750	152.450	133.360
BT	.000	5015.960	152.450	141.080	5015.990	152.490	141.120	5015.970	152.520	141.150
BT	.000	5050.000	152.520	141.150	5015.990	152.520	141.150	5016.000	152.520	134.780
BT	.000	5166.000	154.540	143.520	5066.000	152.870	147.630	5116.000	153.620	149.580
BT	.000	5360.000	157.340	149.670	5190.000	155.070	149.710	5216.000	155.650	149.750
BT	.000	5780.000	180.000	180.000	5380.000	160.000	160.000	5630.000	170.000	170.000
GR	180.000	4270.000	170.000	4470.000	160.000	4590.000	150.000	4660.000	149.610	4710.000

US 421

GR	149.040	4784.000	148.660	4834.000	148.270	4884.000	147.330	4934.000	135.860	4983.980
GR	135.860	4983.980	135.860	4984.000	135.860	4984.010	135.200	4989.000	134.670	4994.250
GR	134.660	4994.260	134.640	4994.500	134.610	4994.750	134.610	4994.760	134.010	5000.000
GR	133.410	5005.250	133.410	5005.260	133.380	5005.500	133.360	5005.750	133.360	5005.760
GR	133.020	5011.000	134.770	5015.970	134.770	5015.980	134.770	5015.990	134.780	5016.000
GR	143.520	5050.000	147.630	5066.000	149.580	5116.000	149.670	5166.000	149.710	5190.000
GR	149.750	5216.000	150.000	5360.000	160.000	5560.000	170.000	5630.000	180.000	5780.000
GR	190.000	5880.000	.000	.000	.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4770.000	.220	4884.000	.180	4984.000	.053	5016.000	.180
NH	5190.000	.251	5360.000	1.000	5880.000	.000	.000	.000	.000	.000
X1	10757.000	41.000	4984.000	5016.000	32.000	32.000	32.000	.000	.000	.000
GR	180.980	4270.000	170.980	4470.000	160.980	4590.000	150.980	4660.000	150.590	4710.000
GR	150.020	4784.000	149.640	4834.000	149.250	4884.000	148.310	4934.000	136.840	4983.980
GR	136.840	4983.990	136.840	4984.000	136.840	4984.010	136.180	4989.000	135.650	4994.250
GR	135.640	4994.260	135.620	4994.500	135.590	4994.750	135.590	4994.760	134.990	5000.000
GR	134.390	5005.250	134.390	5005.260	134.360	5005.500	134.340	5005.750	134.340	5005.760
GR	134.000	5011.000	135.750	5015.970	135.750	5015.980	135.750	5015.990	135.760	5016.000
GR	144.500	5050.000	148.610	5066.000	150.520	5116.000	150.650	5166.000	150.690	5190.000
GR	150.730	5216.000	150.980	5360.000	160.980	5560.000	170.980	5630.000	180.980	5780.000
GR	190.980	5880.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	7.000	1.000	4770.000	.220	4910.000	.180	4982.500	.059	5017.500	.180
NH	5234.800	.251	5350.000	1.000	5890.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	10787.000	27.000	4982.500	5017.500	30.000	30.000	30.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	170.000	4350.000	160.000	4520.000	150.390	4740.000	148.530	4782.500	146.340	4832.500
GR	144.160	4882.500	143.350	4910.000	142.680	4932.500	141.140	4982.480	141.120	4982.490
GR	141.100	4982.500	141.070	4982.510	134.480	4985.500	134.660	4996.500	134.740	5000.000
GR	134.930	5008.500	141.290	5017.470	141.280	5017.480	141.280	5017.490	141.280	5017.500
GR	144.850	5065.500	147.320	5157.500	150.960	5167.500	151.460	5200.000	153.790	5350.000
GR	160.000	5750.000	170.000	5890.000	.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4770.000	.220	4910.000	.180	4982.500	.059	5017.500	.180
NH	5200.000	.251	5350.000	1.000	5890.000	.000	.000	.000	.000	.000
SB	1.250	1.560	2.600	.000	35.000	.000	265.000	.000	134.480	134.480
NC 27										
X1	10812.000	27.000	4982.500	5017.500	25.000	25.000	25.000	.000	.000	.000
X2	.000	.000	1.000	142.060	145.700	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
BT	-27.000	4350.000	170.000	170.000	160.000	160.000	160.000	145.700	146.060	151.390
BT	.000	4782.500	148.540	148.530	146.700	146.700	146.340	4882.500	146.020	144.160
BT	.000	4910.000	145.940	143.350	145.870	145.870	145.870	4982.480	145.700	134.480
BT	.000	4982.490	145.700	134.480	148.600	148.600	134.480	4982.510	148.600	141.700
BT	.000	4985.500	148.630	141.730	4996.500	148.740	141.840	5000.000	148.780	141.880
BT	.000	5008.500	148.870	141.970	5017.470	148.960	142.060	5017.480	148.960	142.060
BT	.000	5017.490	146.060	142.060	5017.500	146.060	135.280	5065.500	147.980	144.850
BT	.000	5157.500	150.930	147.320	5167.500	150.960	150.960	5200.000	151.460	151.460
BT	.000	5350.000	153.790	153.790	5750.000	144.000	160.000	5890.000	170.000	170.000
GR	170.000	4350.000	160.000	4520.000	150.390	4740.000	148.530	4782.500	146.340	4832.500



NH	7.000	1.000	4570.000	.150	4830.000	.135	4983.500	.055	5016.500	.155
NH	5250.000	.195	5410.000	1.000	5740.000	.000	650.000	.000	.000	.000
X1	14987.000	23.000	4983.500	5016.500	678.000	4570.000	180.000	4630.000	170.000	4700.000
GR	200.000	4455.000	190.000	4530.000	186.000	4570.000	180.000	4630.000	170.000	4700.000
GR	160.000	4760.000	151.250	4830.000	150.000	4840.000	150.270	4983.500	147.810	4989.000
GR	147.200	4994.500	147.100	5000.000	148.200	5005.500	149.100	5011.000	149.990	5016.500
GR	150.000	5190.000	160.000	5230.000	161.250	5250.000	170.000	5390.000	171.250	5410.000
GR	180.000	5550.000	192.000	5690.000	200.000	5740.000	.000	.000	.000	.000
NH	8.000	1.000	4720.000	.250	4850.000	.135	4985.000	.055	5015.000	.155
NH	5210.000	.195	5240.000	.252	5380.000	1.000	5500.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	9.410	.000	.000	.000

Cross Section J

X1	15487.000	27.000	4985.000	5015.000	500.000	522.000	500.000	.000	.000	.000
GR	200.000	4580.000	190.000	4640.000	180.000	4680.000	173.330	4720.000	170.000	4740.000
GR	160.000	4800.000	157.050	4850.000	151.450	4945.000	150.950	4955.000	151.550	4965.000
GR	151.750	4975.000	152.150	4985.000	150.550	4993.000	149.850	4994.000	149.250	4999.000
GR	149.050	5004.000	149.150	5009.000	149.850	5009.500	151.550	5015.000	151.450	5025.000
GR	160.000	5200.000	162.500	5210.000	170.000	5240.000	180.000	5320.000	185.000	5380.000
GR	190.000	5440.000	200.000	5500.000	.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4570.000	.250	4830.000	.135	4976.800	.055	5023.200	.155
NH	5250.000	.195	5410.000	1.000	5460.000	.000	600.000	.000	.000	.000
X1	16287.000	21.000	4976.800	5023.200	811.000	4460.000	170.000	4520.000	165.000	4570.000
GR	200.000	4270.000	190.000	4370.000	180.000	4460.000	170.000	4520.000	165.000	4570.000
GR	160.000	4620.000	157.750	4830.000	156.180	4976.800	155.340	4984.500	154.090	4992.300
GR	152.350	5000.000	152.200	5007.800	153.260	5015.100	154.620	5023.200	160.000	5180.000
GR	167.780	5250.000	170.000	5270.000	180.000	5330.000	190.000	5400.000	191.670	5410.000
GR	200.000	5460.000	.000	.000	.000	.000	.000	.000	.000	.000
NH	6.000	.250	4670.000	.195	4976.500	.090	5023.500	.200	5100.000	.252
NH	5250.000	1.000	5405.000	.000	608.000	.000	600.000	.000	.000	.000
X1	16887.000	18.000	4976.500	5023.500	608.000	4670.000	160.000	4700.000	160.000	4700.010
GR	180.000	4525.000	170.000	4600.000	163.000	4670.000	154.600	4700.000	154.550	4700.010
GR	157.970	4976.500	156.780	4984.330	155.050	4992.170	160.000	5000.000	160.000	5007.830
GR	155.280	5015.670	156.530	5023.500	157.850	5100.000	160.000	5225.000	160.000	5225.010
GR	162.500	5250.000	170.000	5325.000	180.000	5405.000	.000	.000	.000	.000
NH	7.000	1.000	4490.000	.250	4670.000	.195	4966.500	.090	5033.500	.200
NH	5100.000	.252	5250.000	1.000	5530.000	.000	.000	.000	.000	.000

Cross Section K

X1	17227.000	27.000	4984.500	5033.500	406.000	406.000	400.000	.000	.000	.000
GR	200.000	4240.000	190.000	4340.000	180.000	4420.000	173.000	4490.000	170.000	4520.000
GR	167.420	4670.000	162.620	4948.500	161.020	4966.500	160.020	4984.500	158.020	4995.500
GR	156.120	4999.500	156.820	5004.500	156.920	5009.500	156.120	5013.500	156.620	5018.500
GR	156.720	5022.500	158.220	5027.500	158.520	5033.500	158.820	5042.500	159.120	5060.500
GR	159.120	5069.500	161.480	5100.000	170.000	5210.000	176.670	5250.000	180.000	5270.000
GR	190.000	5350.000	200.000	5530.000	.000	.000	.000	.000	.000	.000

NH	7.000	1.000	4750.000	.250	4880.000	.180	4986.000	.090	5014.000	.180
NH	5190.000	.252	5370.000	1.000	5600.000	.000	.000	.000	.000	.000
Cross Section L										
X1	12417.000	25.000	4906.000	5014.000	1100.000	.180	1130.000	.000	5030.000	.180
GR	200.000	4620.000	190.000	4720.000	186.250	.000	180.000	.000	170.000	.000
GR	168.840	4800.000	163.260	4966.000	164.260	.000	163.560	.000	162.360	.000
GR	162.060	4993.000	161.960	4998.000	161.160	.000	160.560	.000	160.660	.000
GR	162.360	5011.000	163.260	5014.000	163.260	.000	163.360	.000	167.940	.000
GR	170.000	5260.000	180.000	5340.000	183.000	.000	190.000	.000	200.000	.000
NH	7.000	1.000	4640.000	.250	4800.000	.180	4970.000	.090	5030.000	.180
NH	5190.000	.252	5330.000	1.000	5340.000	.000	.000	.000	.000	.000
X1	19017.000	18.000	4970.000	5030.000	600.000	.000	600.000	.000	.000	.000
GR	190.000	4505.000	180.000	4580.000	170.000	.000	170.000	.000	167.260	.000
GR	164.350	4970.000	163.010	4980.000	163.430	.000	163.480	.000	162.910	.000
GR	163.230	5020.000	164.310	5030.000	170.000	.000	170.000	.000	175.000	.000
GR	180.000	5215.000	189.200	5330.000	190.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4640.000	.250	4800.000	.180	4960.000	.090	5040.000	.180
NH	5190.000	.252	5330.000	1.000	6080.000	.000	.000	.000	.000	.000

X1	19417.000	25.000	4960.000	5040.000	390.000	.000	400.000	.000	400.000	.000
GR	200.000	4040.000	190.000	4280.000	180.000	.000	173.330	.000	170.000	.000
GR	168.690	4800.000	166.080	4960.000	165.780	.000	164.480	.000	165.080	.000
GR	165.180	4985.000	166.580	4989.000	166.480	.000	166.180	.000	166.080	.000
GR	164.680	5018.000	165.580	5025.000	165.880	.000	166.280	.000	169.070	.000
GR	170.000	5240.000	180.000	5300.000	183.750	.000	190.000	.000	200.000	.000
NH	7.000	1.000	4640.000	.250	4800.000	.180	4970.950	.090	5029.050	.180
NH	5190.000	.252	5330.000	1.000	5370.000	.000	.000	.000	.000	.000
X1	19892.000	18.000	4970.950	5029.050	497.000	.000	475.000	.000	.000	.000
GR	200.000	4410.000	190.000	4520.000	181.430	.000	180.000	.000	170.000	.000
GR	169.510	4800.000	168.320	4970.950	166.710	.000	166.340	.000	167.090	.000
GR	167.120	5009.650	167.560	5019.350	168.480	.000	170.000	.000	171.250	.000
GR	180.000	5260.000	186.360	5330.000	190.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4680.000	.250	4820.000	.180	4982.500	.090	5017.500	.180
NH	5117.500	.252	5310.000	1.000	5840.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	5.410	.000	.000	.000
X1	20392.000	42.000	4982.500	5017.500	524.000	.000	500.000	.000	.000	.000
GR	199.210	4255.000	189.210	4595.000	184.620	.000	179.210	.000	176.040	.000
GR	175.700	4820.000	175.590	4832.500	175.730	.000	176.550	.000	176.170	.000
GR	174.010	4932.500	171.620	4982.480	171.620	.000	171.620	.000	171.620	.000
GR	171.370	4986.500	168.310	4991.500	168.800	.000	168.800	.000	168.800	.000
GR	168.800	5000.010	168.830	5000.500	168.860	.000	168.860	.000	168.870	.000
GR	168.870	5001.110	169.330	5008.500	171.450	.000	171.760	.000	171.760	.000
GR	171.760	5017.490	171.760	5017.500	177.810	.000	177.000	.000	176.020	.000
GR	176.200	5160.000	176.230	5167.500	176.710	.000	177.290	.000	180.510	.000
GR	189.210	5560.000	199.210	5840.000	.000	.000	.000	.000	.000	.000









THIS RUN EXECUTED 08-17-87 09:20:34

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 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984  
 ERROR CORR - 01,02,03,04,05,06  
 MODIFICATION - 50,51,52,53,54,55,56  
 IBM-PC-XT VERSION AUGUST 1985  
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NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

BUIES CREEK

SUMMARY PRINTOUT TABLE 110

SECHO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
360.000	102.16	.00	102.81	78.95	.00	3454.00	.00	.00	.00	4957.50	5042.50	.00
360.000	102.16	.00	102.81	78.95	.00	3454.00	.00	.00	4957.50	4957.50	5042.50	5042.50
2640.000	109.56	.00	110.11	305.98	575.41	2744.08	134.51	.00	.00	4976.50	5023.50	.00
2640.000	110.01	.45	110.82	229	217.12	3236.88	.00	.21	4954.22	4976.50	5023.50	5023.50
4520.000	114.42	.00	114.63	882.37	727.23	1929.02	797.74	.00	.00	4967.00	5033.00	.00
4520.000	115.40	.98	115.71	232.45	438.16	2435.96	579.88	.27	4846.55	4967.00	5033.00	5079.01
5340.000	116.86	.00	117.88	242.17	308.85	3047.89	97.26	.00	.00	4969.75	5030.25	.00
5340.000	117.70	.84	118.83	60.50	.00	3454.00	.00	.14	4969.75	4969.75	5030.25	5030.25
6120.000	121.26	.00	121.90	339.55	401.82	2881.61	170.57	.00	.00	4972.50	5027.50	.00
6120.000	121.86	.60	122.62	85.26	212.83	3219.70	21.48	.14	4946.77	4972.50	5027.50	5032.03
6765.500	123.24	.00	123.39	1002.47	1547.95	1390.74	515.31	.00	.00	4981.85	5018.15	.00
6765.500	124.01	.78	124.27	350.00	1656.03	1787.45	10.52	350.00	4670.00	4981.85	5018.15	5020.00
7465.500	124.87	.00	125.40	315.77	2053.26	1216.80	144.94	.00	.00	4992.00	5008.00	.00
7465.500	125.90	1.03	126.12	250.00	2489.56	925.44	.00	250.00	4758.00	4992.00	5008.00	5008.00
7529.500	125.31	.00	125.81	319.06	2061.47	1207.77	145.76	.00	.00	4992.00	5008.00	.00
7529.500	126.17	.87	126.40	225.00	2475.07	939.93	.00	225.00	4783.00	4992.00	5008.00	5008.00
7570.500	129.67	.00	129.71	487.37	2646.67	590.66	177.67	.00	.00	4992.00	5008.00	.00
7570.500	130.02	.35	130.08	225.00	2717.30	697.70	.00	.33	4783.00	4992.00	5008.00	5008.00
7586.500	129.67	.00	129.74	481.13	2461.11	788.54	165.35	.00	.00	4992.00	5008.00	.00
7586.500	130.03	.36	130.12	170.25	2609.29	805.71	.00	.32	4837.75	4992.00	5008.00	5008.00
7670.000	129.72	.00	129.85	561.93	1573.48	1169.09	672.43	.00	.00	4988.00	5012.00	.00
7670.000	130.02	.30	130.35	164.57	1622.33	1649.98	142.69	.40	4861.44	4988.00	5012.00	5026.01

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
8570.000	131.56	.00	131.80	525.84	1435.47	1289.82	689.71	.00	.00	4987.00	5013.00	.00
8570.000	132.60	1.04	132.90	233.58	1462.05	1494.21	458.74	.24	4838.51	4987.00	5013.00	5072.09
9370.000	134.87	.00	135.26	338.05	839.48	1443.78	1131.74	.00	.00	4986.50	5013.50	.00
9370.000	135.68	.82	136.27	154.48	669.04	1783.49	962.48	.25	4937.38	4986.50	5013.50	5091.85
9987.000	138.25	.00	138.79	423.25	1225.20	1811.65	378.15	.00	.00	4985.10	5014.90	.00
9987.000	139.18	.93	139.99	132.64	1180.00	2235.00	.00	.28	4882.26	4985.10	5014.90	5014.90
10487.000	141.22	.00	143.19	88.26	163.95	3028.94	222.12	.00	.00	4984.00	5016.00	.00
10487.000	142.06	.84	144.19	39.34	16.70	3326.90	71.39	.09	4981.89	4984.00	5016.00	5021.23
10615.000	142.49	.00	145.09	32.00	.00	3415.00	.00	.00	.00	4984.00	5016.00	.00
10615.000	143.30	.82	145.46	32.00	.00	3415.00	.00	.00	4984.00	4984.00	5016.00	5016.00
10725.000	147.86	.00	148.81	32.00	.00	3415.00	.00	.00	.00	4984.00	5016.00	.00
10725.000	148.79	.93	149.63	32.00	.00	3415.00	.00	.00	4984.00	4984.00	5016.00	5016.00
10757.000	148.52	.00	149.01	142.87	321.73	2690.45	402.82	.00	.00	4984.00	5016.00	.00
10757.000	149.27	.75	149.78	80.06	249.05	2819.31	346.64	.06	4963.28	4984.00	5016.00	5043.34
10787.000	148.91	.00	149.14	368.13	783.96	2180.92	450.13	.00	.00	4982.50	5017.50	.00
10787.000	149.57	.66	149.89	139.60	666.40	2502.38	246.22	.20	4909.53	4982.50	5017.50	5049.13
10812.000	149.18	.00	149.33	394.93	856.82	2008.17	550.01	.00	.00	4982.50	5017.50	.00
10812.000	150.10	.92	150.29	139.60	786.95	2267.90	360.15	.17	4909.53	4982.50	5017.50	5049.13
10847.000	149.18	.00	149.40	389.99	790.23	2168.42	456.35	.00	.00	4982.50	5017.50	.00
10847.000	150.08	.91	150.37	141.63	682.67	2473.84	258.48	.20	4908.63	4982.50	5017.50	5050.26
11230.000	149.75	.00	149.86	450.60	631.00	1387.61	1396.30	.00	.00	4986.00	5014.00	.00
11230.000	150.71	.96	150.86	191.57	414.85	1612.01	1388.14	.19	4948.84	4986.00	5014.00	5140.41
13037.000	151.51	.00	151.58	610.17	935.19	941.43	1538.38	.00	.00	4989.00	5011.00	.00
13037.000	152.54	1.03	152.63	275.99	757.14	1102.73	1555.14	.22	4909.69	4989.00	5011.00	5185.68
14337.000	152.69	.00	152.72	612.32	668.17	530.38	575.45	.00	.00	4981.50	5018.50	.00
14337.000	153.74	1.05	153.79	290.23	601.64	681.60	490.76	.30	4857.29	4981.50	5018.50	5147.52
14987.000	153.43	.00	153.51	391.12	555.11	615.28	603.61	.00	.00	4983.50	5016.50	.00
14987.000	154.43	1.01	154.56	215.89	445.67	825.04	503.29	.33	4900.21	4983.50	5016.50	5116.10
15487.000	155.02	.00	155.50	213.78	493.74	1037.37	242.89	.00	.00	4985.00	5015.00	.00
15487.000	155.85	.83	156.65	66.66	378.87	1378.70	16.44	.31	4951.24	4985.00	5015.00	5017.91
16287.000	159.16	.00	159.37	457.95	357.21	1140.93	275.86	.00	.00	4976.80	5023.20	.00
16287.000	160.17	1.01	160.49	104.35	270.27	1480.62	23.12	.32	4923.31	4976.80	5023.20	5027.66
16887.000	161.24	.00	161.30	549.75	470.75	794.68	508.58	.00	.00	4976.50	5023.50	.00
16887.000	162.23	1.00	162.33	207.76	411.01	1010.22	352.76	.32	4873.19	4976.50	5023.50	5080.94

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	SIENCL	STCHL	STCHR	STENCR
17287.000	163.08	.00	163.32	198.52	145.69	1255.56	372.76	.00	.00	4984.50	5033.50	.00
17287.000	164.00	.93	164.36	67.10	.00	1602.34	171.65	.27	4984.50	4984.50	5033.50	5051.60
18417.000	168.92	.00	169.01	344.99	344.64	697.22	732.15	.00	.00	4986.00	5014.00	.00
18417.000	169.94	1.02	170.07	130.79	186.82	849.23	737.95	.28	4965.93	4986.00	5014.00	5096.72
19017.000	170.17	.00	170.21	527.00	659.82	861.38	252.80	.00	.00	4970.00	5030.00	.00
19017.000	171.17	.99	171.22	195.97	648.25	1061.85	63.90	.26	4846.49	4970.00	5030.00	5042.46
19417.000	170.81	.00	170.85	544.12	506.63	871.15	396.23	.00	.00	4960.00	5040.00	.00
19417.000	171.78	.97	171.84	198.26	394.74	1150.32	228.94	.31	4885.99	4960.00	5040.00	5084.25
19892.000	172.03	.00	172.08	480.38	628.26	747.20	398.54	.00	.00	4970.95	5029.05	.00
19892.000	172.96	.93	173.04	213.32	563.45	995.17	215.39	.32	4859.70	4970.95	5029.05	5073.02
20392.000	175.08	.00	175.84	133.47	264.96	1425.89	83.14	.00	.00	4982.50	5017.50	.00
20392.000	175.76	.68	176.70	45.96	108.14	1665.86	.00	.18	4971.54	4982.50	5017.50	5017.50
20532.000	177.37	.00	177.59	357.45	370.97	1053.82	117.21	.00	.00	4982.50	5017.50	.00
20532.000	178.10	.73	178.37	79.41	333.60	1208.40	.00	.21	4938.09	4982.50	5017.50	5017.50
20561.000	178.30	.00	178.40	442.47	331.16	896.34	314.50	.00	.00	4982.50	5017.50	.00
20561.000	179.17	.87	179.40	79.41	280.06	1261.94	.00	.13	4938.09	4982.50	5017.50	5017.50
20596.000	178.39	.00	178.53	436.80	382.92	1009.44	149.64	.00	.00	4982.50	5017.50	.00
20596.000	179.35	.96	179.54	95.16	326.30	1194.45	21.26	.24	4927.16	4982.50	5017.50	5022.31

FLOODWAY DATA, BUIES CREEK  
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
360.000	79.	534.	6.5	102.2	102.2	.0
2640.000	69.	558.	6.2	110.0	109.6	.4
4520.000	232.	1374.	2.5	115.4	114.4	1.0
5340.000	61.	405.	8.5	117.7	116.9	.8
6120.000	85.	601.	5.7	121.9	121.3	.6
6765.500	350.	2465.	1.4	124.0	123.2	.8
7465.500	250.	1434.	2.4	125.9	124.9	1.0
7529.500	225.	1353.	2.5	126.2	125.3	.9
7570.500	225.	2206.	1.5	130.0	129.7	.3
7586.500	170.	1786.	1.9	130.1	129.7	.4
7670.000	165.	1273.	2.7	130.0	129.7	.3
8570.000	234.	1430.	2.4	132.6	131.6	1.0
9370.000	154.	1004.	3.4	135.7	134.9	.8
9987.000	133.	851.	4.0	139.1	138.2	.9
10487.000	39.	334.	10.2	142.0	141.2	.8
10615.000	32.	290.	11.8	143.3	142.5	.8
10725.000	32.	466.	7.3	148.8	147.9	.9
10757.000	80.	931.	3.7	149.3	148.5	.8
10787.000	140.	1240.	2.8	149.6	148.9	.7
10812.000	140.	1643.	2.1	150.1	149.2	.9
10847.000	142.	1297.	2.6	150.1	149.2	.9
11230.000	192.	1968.	1.7	150.8	149.8	1.0
13037.000	276.	2626.	1.3	152.5	151.5	1.0
14337.000	290.	1592.	1.1	153.7	152.7	1.0
14987.000	216.	1000.	1.8	154.4	153.4	1.0
15487.000	67.	330.	5.4	155.8	155.0	.8
16287.000	104.	519.	3.4	160.2	159.2	1.0
16887.000	208.	1011.	1.8	162.2	161.2	1.0
17287.000	67.	414.	4.3	164.0	163.1	.9
18417.000	131.	834.	2.1	169.9	168.9	1.0
19017.000	196.	1258.	1.4	171.2	170.2	1.0
19417.000	198.	1080.	1.6	171.8	170.8	1.0
19892.000	213.	993.	1.8	172.9	172.0	.9
20392.000	46.	251.	7.1	175.8	175.1	.7
20532.000	79.	468.	3.3	178.1	177.4	.7
20561.000	79.	553.	2.8	179.2	178.3	.9
20596.000	95.	648.	2.4	179.4	178.4	1.0